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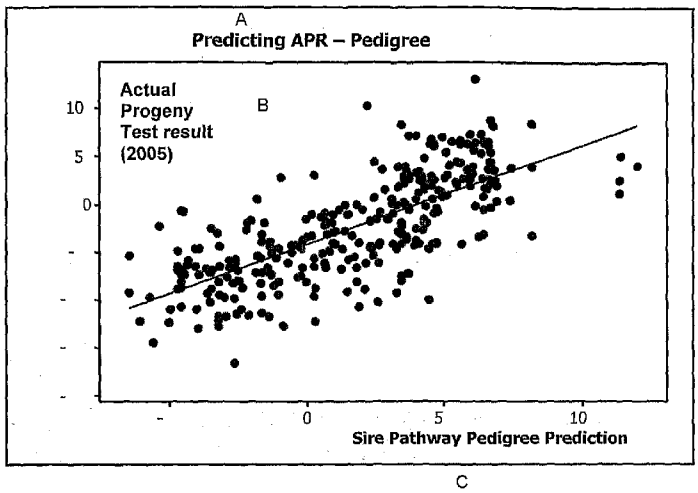
(54) Title: MARKERS FOR PRODUCTION TRAITS



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(57) Abstract: The present invention relates to a method for selecting an animal for milk protein yield using marker assisted selection, wherein said method comprises: (a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 1 ; and (b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of milk protein yield.

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Markers for Production Traits

Technical Field

The present invention relates to genetic markers and to methods of using such markers to assist in the determination of profit ranking in domestic animals, and as a predictive indicator for production traits in domestic animals.

Background Art

Estimated Breeding Values (EBVs) are an estimate of a dairy bull or cow's genetic merit for any given trait. Such genetic merit may also reflect somatic cell and/or germ cell characteristics, depending on the trait(s) being examined. EBVs can therefore not only predict phenotype performance and herd lifetime productivity (that is, provide a genetic diagnostic of phenotype) but also provide predictive insight into the ability of an animal to pass on superior genetic material (such as increased protein yield) to its offspring. Breeding values are calculated for production traits (expressed in units of measurements, that is, litres of milk and kilograms of fat and protein), workability traits, conformation traits as well as other health, management and survival traits.

EBVs are calculated using Best Linear Unbiased Prediction (BLUP), and provide the best estimate of a bull's genetic merit, given the information available. The current rate of genetic gain for the Australian dairy cow population is approximately 0.7% per annum [Australian Dairy Herd Improvement Scheme - ADHIS] which equates to approximately $6 per cow per year. Factors that influence the rate of genetic gains are intensity of selection, accuracy of selection and generation interval. Currently intensity of selection can be influenced at the level of progeny testing of bull candidates in breeding programs (using only top bulls), at the reseller level and at the dairy farmer level. The accuracy of testing is reflected by the results of progeny testing programs.

Whilst pedigree alone is an indicator of the potential genetic merit of an individual bull, a better indicator is the bull's progeny test EBV (first (Estimated) Breeding Value (BV)). Progeny testing relies on accurately recorded information from a number of daughters from each young bull so as to get a "reasonable" measure of genetic merit.

The present invention relates to the improvement in selection accuracy by assessing the association of genetic marker polymorphisms in proven sires with breeding value records of the daughters from those sires.

Summary of the Invention

According to a first aspect of the present invention, there is provided a method for selecting an animal for milk protein yield, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 1; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of milk protein yield.

The at least one genetic marker may be selected from the group consisting of SEQ ID NOs 918, 14764, 14077, 1485, 14930, 13117, 14167, 10473, 12727 and 12712.

According to a second aspect of the present invention, there is provided a method for selecting an animal for milk fat yield, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 2; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of milk fat yield.

The at least one genetic marker may be selected from the group consisting of SEQ ID NOs 15210, 1879 and 5684.

According to a third aspect of the present invention, there is provided a method for selecting an animal for cell count, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 3; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of cell count.

The at least one genetic marker may be selected from the group consisting of SEQ ID NOs 13145, 13233, 11708, 2585, 14285, 13696, 11141, 14210, 14139 and 14852.

According to a fourth aspect of the present invention, there is provided a method for selecting an animal for Australian profit ranking, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 4; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of Australian profit ranking.

The at least one genetic marker may be selected from the group consisting of SEQ ID NOs 13285, 14001, 13322, 14830, 15154, 15122, 6855, 15288, 10914 and 13101.

According to a fifth aspect of the present invention, there is provided a method for selecting an animal for Australian selection index, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 5; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of Australian selection index.

The at least one genetic marker may be selected from the group consisting of SEQ ID NOs 1651, 4718, 13728, 1485, 12270, 13868, 9172, 14986, 11428 and 13354.

According to a sixth aspect of the present invention, there is provided a method for selecting an animal for milk fat percent, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 6; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of milk fat percent.

According to a seventh aspect of the present invention, there is provided a method for selecting an animal for milk protein percent, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 7; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of milk protein percent.

According to an eighth aspect of the present invention, there is provided a method for selecting an animal for milk volume, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 8; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of milk volume.

According to a ninth aspect of the present invention, there is provided a method for selecting an animal for cow fertility, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 9; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of cow fertility.

According to a tenth aspect of the present invention, there is provided a method for selecting an animal for milking speed, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 10; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of milking speed.

According to an eleventh aspect of the present invention, there is provided a method for selecting an animal for temperament, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 11; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of temperament.

According to a twelfth aspect of the present invention, there is provided a method for selecting an animal for calving ease, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 12; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of calving ease.

According to a thirteenth aspect of the present invention, there is provided a method for selecting an animal for survival, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 13; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of survival.

According to a fourteenth aspect of the present invention, there is provided a method for selecting an animal for mammary system, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 14; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of mammary system.

According to a fifteenth aspect of the present invention, there is provided a method for selecting an animal for overall type, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 15; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of overall type.

According to a sixteenth aspect of the present invention, there is provided a method for selecting an animal for teat length, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 16; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of teat length.

According to a seventeenth aspect of the present invention, there is provided a method for selecting an animal for centre ligament, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 17; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of centre ligament.

According to an eighteenth aspect of the present invention, there is provided a method for selecting an animal for udder depth, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 18; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of udder depth.

According to a nineteenth aspect of the present invention, there is provided a method for selecting an animal for likeability, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 19; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of likeability.

According to a twentieth aspect of the present invention, there is provided a method for selecting an animal for live weight, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 20; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of live weight.

The polymorphism in the first to twentieth aspects may be a single nucleotide polymorphism.

According to a twenty-first aspect of the present invention, there is provided a method for breeding an animal, wherein parents of said animal are selected according to the method of any one of the first to twentieth aspects.

According to a twenty-second aspect of the present invention, there is provided the method of the twenty-first aspect further comprising:

(c) analyzing a nucleic acid sample from progeny of said parents for a polymorphism in at least one genetic marker selected from the group set out in Tables 1 - 20; and

(d) selecting said progeny based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of a trait set out in Tables 1 – 20, respectively.

The trait may be selected from the group consisting of milk protein yield, milk fat yield, cell count, Australian profit ranking (APR), Australian selection index (ASI), milk fat percent, milk protein percent, milk volume, cow fertility, milking speed, temperament, calving ease, survival, mammary system, overall type, teat length, centre ligament, udder depth, likeability and live weight.

The trait may be selected from the group consisting of milk protein yield, milk fat yield, cell count, Australian profit ranking (APR), Australian selection index (ASI), milk fat percent, milk protein percent, milk volume, cow fertility, milking speed, temperament, calving ease, survival, mammary system, overall type and teat length.

The trait may be selected from the group consisting of milk protein yield, milk fat yield, cell count, Australian profit ranking (APR), Australian selection index (ASI), milk fat percent, milk protein percent and milk volume.

According to a twenty-third aspect of the present invention, there is provided a method for managing an animal, wherein said animal is selected according to the method of any one of the first to twentieth aspects.

The management of the animal may comprise determining whether the animal is to be used for breeding purposes or production purposes or culled. This determination may be made in the context of any one of the traits selected from the group comprising: milk protein yield, milk fat yield, cell count, Australian profit ranking (APR), Australian selection index (ASI), milk fat percent, milk protein percent, milk volume, cow fertility, milking speed, temperament, calving ease, survival, mammary system, overall type, teat length, centre ligament, udder depth, likeability and live weight, or a combination thereof.

According to a twenty-fourth aspect of the present invention, there is provided a kit for selecting an animal for a trait set out in Tables 1 – 20, wherein said kit comprises:

(a) means for analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Tables 1 – 20, respectively; and

(b) selecting said animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of the trait.

According to a twenty-fifth aspect of the present invention, there is provided an animal selected by the method of any one of the first to twentieth aspects, or by use of the kit of the twenty-fourth aspect.

According to a twenty-sixth aspect of the present invention, there is provided an animal bred by the method of the twenty-first aspect.

According to a twenty-seventh aspect of the present invention, there is provided a progeny animal selected by the method of the twenty-second aspect.

According to a twenty-eighth aspect of the present invention, there is provided an animal product derived from the animal of the twenty-fifth or twenty-sixth aspects.

The animal product may comprise or be derived from milk.

The methods of the invention are applicable to animals including but not limited to cattle and other bovids, including water buffalo and bison, to other ungulates, including sheep, goats, deer, alpaca, llama, deer, as well as pigs.

According to a twenty-ninth aspect of the present invention, there is provided at least one genetic marker, wherein said marker is selected from the group comprising SEQ ID NOs: 1 to 15380.

Brief Description of the Drawings and Sequence Listing

The present invention will now be described, by way of example only, with reference to the following drawing.

Figure 1: A scatter plot showing the sire pathway prediction on the horizontal axis and the 2005 APR based for the corresponding progeny test shown on the vertical axis.

Figure 2: Frequency distribution of the haplotype block size.

Sequence Listing: Accompanying the present specification is a single CD ROM comprising a sequence listing of SEQ ID NOS: 1-15380 reflecting the identity of the genetic markers referred to herein, including details of relevant polymorphisms and flanking sequence of same.

Definitions

In the context of this specification, the term "comprising" means "including principally, but not necessarily solely". Furthermore, variations of the word "comprising", such as "comprise" and "comprises", have correspondingly varied meanings.

The term "animal" refer to an individual at any stage of life, or after death, including an entity prior to birth such as a fertilised ovum, either before fusion of the male and female pro-nucleus or after the pro-nuclei have fused to form a zygote, an embryo (created by any means including somatic cell nuclear transfer) or an individual cell (N, 2N or greater); for the avoidance of doubt, this also includes a cell or a cluster of cells including stem cells and stem cell-like cells, cell line, haploid gametes and their progenitor cell lines. Also products resulting from the gametes, including embryos.

The term "primer" as used herein means a single-stranded oligonucleotide capable of acting as a point of initiation of template-directed DNA synthesis. An "oligonucleotide" is a single-stranded nucleic acid typically ranging in length from 2 to about 500 bases. The precise length of a primer will vary according to the particular application, but typically ranges from 15 to 30 nucleotides. A primer need not reflect the exact sequence of the template but must be sufficiently complementary to hybridize to the template.

The term "Molecular Breeding Value" (MBV) refers to an estimate of breeding value obtained from genetic marker information.

The term "genotype" as used herein means the genetic constitution of an organism. This may be considered in total, or as in the present application, with respect to the alleles of a single gene (that is, at a given genetic locus). Accordingly, the term "homozygote" refers to an organism that has identical alleles at a given locus on homologous chromosomes, whereas the term "heterozygote" refers to an organism in which different alleles are found on homologous alleles for a given locus.

The term "genetic marker" as used herein refers to nucleic acids that are polymorphic in a population and where the alleles of which can be detected and distinguished by one or more analytic methods. The term "genetic marker" further includes within its scope a plurality of genetic markers cosegregating, in the form of a "haplotype". In this context, the term "haplotype" refers to a plurality of genetic markers that are generally inherited together, and in this group may be represented as a single "tag genetic marker". Typically, genetic markers within a haplotype are in strong linkage disequilibrium

The term ""haplotype block" refers to a region of a chromosome that contains one or more polymorphic sites that tend to be inherited together, that is, are in linkage disequilibrium. In other words, combinations of polymorphic forms at the polymorphic sites within a block cosegregate in a population more frequently than combinations of polymorphic sites that occur in different haplotype blocks.

The term "tag genetic marker" refers to a genetic marker located within a haplotype and which is in linkage disequilibrium with at least one other marker in the haplotype. Accordingly, a "tag marker" may act as proxy for all markers either known or unknown, within the haplotype.

The term "phenotype" as used herein means the observable physical or biochemical characteristics of an organism, as determined by both genetic makeup and environmental influences and may also mean the expression of a specific trait, such as milk volume, based on genetic and environmental influences.

The term "homozygote" refers to an organism that has identical alleles at a given locus on homologous chromosomes.

The term "heterozygote" refers to an organism in which different alleles are found on homologous alleles for a given locus.

The term "single nucleotide polymorphism" (SNP) refers to nucleic acid sequence variations that occur when a single nucleotide in the genome sequence is altered. A single nucleotide polymorphism may also be a single nucleotide insertion or deletion. The nucleotides involved in SNPs are called alleles.

The term "base pair" as used herein means a pair of nitrogenous bases, each in a separate nucleotide, in which each base is present on a separate strand of DNA and the bonding of these bases joins the component DNA strands. Typically a DNA molecule contains four bases; A (adenine), G (guanine), C (cytosine), and T (thymidine). A and G are purine bases, typically designated by the letter "R", whereas C and T are pyrimidine bases, typically designated by the letter "Y". Where A or T may occupy a single position it is typically designated by the letter W. Where G or C may occupy a single position it is typically designated by the letter S. Where A or C may occupy a single position it is typically designated by the letter M. Where G or T may occupy a single position it is typically designated by the letter K. Where A, T or C may occupy a single position it is typically designated by the letter H. Where G, C or T may occupy a single position it is typically designated by the letter B. Where G, A or T may occupy a single position it is typically designated by the letter D. Where G, C or A may occupy a single position it is typically designated by the letter V. Where G, C, A or T may occupy a single position it is typically designated by the letter N. The term "base pair" is abbreviated to "bp", and the term "kilobase pair" is abbreviated to kb.

The term "restriction enzyme" as used herein means an endonuclease enzyme that recognises and cleaves a specific sequence of DNA (recognition sequence).

Best Mode of Performing the Invention

The present invention relates to the improvement in selection accuracy by assessing the association of polymorphisms in proven bull sires with breeding value records of the daughters from those bulls. And top prediction of individual animals phenotype performance based on such markers Based on the relationships established, the use of pedigree and assessment of polymorphisms predict genetic merit for Australian Profit Ranking (APR) up to 50% above and beyond pedigree alone. (NB our WGS has rankings of 0.9 with BV using NO pedigree- correlations fig 1 pedigree and BV are typically in 0.45-0.6 range

On average about 30% of the gross per cow production gains for Australian dairy cattle are contributed via the gains made from selecting improved genetics. The other

70% of production gains come from improved management of cows (mainly via feeding) but also factors such as cow handling, milking and animal health [ADHIS]. However, such methods of improved management are inherently subject to random factors over which farmers / managers have no control, particularly in relation to the impact of such factors on individual animals.

Additive genetic variation forms the principle basis for sustained increase in genetic superiority of a population in which the invention is applied. To date, the current rate of genetic gain for the Australian dairy cow population is approximately 0.7% per annum [ADHIS] which equates to approximately AU$6 per cow per year. Factors that influence the rate of genetic gains are intensity of selection, accuracy of selection and generation interval.

Currently intensity of selection can be influenced at the level of progeny testing of bull candidates in breeding programs (using only top bulls), at the reseller level and at the dairy farmer level. The accuracy of testing is reflected by the results of progeny testing programs.

Whilst pedigree alone is an indicator of the potential genetic merit of an individual bull, a better indicator is the bull's progeny test EBV. Progeny testing relies on the accurately recorded information from a number of daughters from each young bull so as in obtaining a measurement of genetic merit.

1. Calculation of Breeding Values

Estimated Breeding Values (EBVs) are calculated using Best Linear Unbiased Prediction (BLUP). The EBVs provide the best estimate of a bull's genetic merit, given the information available for each BLUP run. The EBVs are breeding values calculated using Best Linear Unbiased Prediction (BLUP) and are an estimate of the bull's genetic merit, and must be halved to determine what can be transmitted to each bull's daughters. Production EBVs are expressed in units of measurements, such as. litres of milk and kilograms of fat and protein etc. Other EBVs include Type Traits, Overall Type and Mammary System, Individual type traits, Live weight, workability, somatic cell count, daughter fertility, survival and calving ease.

BLUP is an abbreviation of Best Linear Unbiased Prediction. 'Best' is a reference to the method which gives the best estimates for the breeding value, or to put it more precisely, this minimizes the variance of difference between the estimates and the true breeding values. 'Linear' means that there is a linear relation between parameters in the

statistical model. 'Unbiased' means that the breeding value estimates are central, that they are expected to be normally distributed with the true breeding value as mean value. 'Prediction' normally refers to the future. But prediction also refers to the estimation of realized values of a random variable drawn from a population with known variance- and co-variance-structure. A simpler and less precise formulation: 'prediction' is estimation of a given value of a random variable. It is better to use the expression 'prediction of breeding values', but 'breeding value estimates' are commonly used. With BLUP the breeding values are calculated for all animals simultaneously, and at the same time environmental effects can be corrected for.

2. *Selection of bulls*

Straws of semen from 1,546 bulls were used as the source of DNA. Bulls were selected based on their breeding values for different milk production traits as described in the database of the Australian Dairy Herd Improvement Scheme (ADHIS; http://www.adhis.com.au/) which presents Australian (Estimated) Breeding Values (BV) for sires used in the Australian Dairy Industry. The selected bulls are from the tails of the distribution for four different traits namely; Australian profit ranking (APR), protein kg, fertility, and somatic cell score (SCC), but as a whole group represent near to normal distribution for all 34 traits measured and reported in ADHIS database.

All the animals included in the study were considered unrelated, though the animals were related in a complex pedigree and small amount of relatedness and inbreeding. The mean kinship (coefficient of co-ancestry) is 0.012±0.021 with 0 and 0.016 for the first and third quartiles respectively. The mean inbreeding coefficient is 0.8 per cent. The inbreeding coefficients and coefficient of co-ancestry between these bulls were computed based on pedigree information obtained from ADHIS and using FORTRAN programs in the PEDIG package of D. Boichard (http://dga.jouy.inra.fr/sgqa/diffusions/pedig/ pedigE.htm).

3. *Nucleic acid sampling*

DNA from the subject to be assessed may be extracted by a number of suitable methods known to those skilled in the art. Most typically, DNA is extracted from a blood or semen sample, and in particular from peripheral blood leucocytes.

Semen samples for these bulls were obtained from Genetics Australia (Bacchus Marsh, Vic, Australia). Genomic DNA was extracted from straws of frozen semen samples by a salting-out method adapted from [Heyen *et al.* 1997]. The yields of

genomic DNA per straw were small. Hence all DNA samples were amplified using a Whole Genome Amplification kit (Repli-G, Molecular Staging Inc. USA) increasing DNA yield. All genotyping on this panel of DNA samples was carried out using amplified DNA. The quantification of DNA was done using picogreen (Molecular Probes, Invitrogen) and assayed on a Victor2 1420 Multilabel Counter (Perkin Elmer).

4. *Genotype analysis Paralellele (Affymetrix)*

A high-throughput SNP assay service provided by Affimetrix, Inc. was used for the genotyping. It uses a highly multiplexed Molecular Inversion Probe technology (MIP) developed by ParAllele Bioscience Inc. Hardenbol et al. (2005). MIPs are unimolecular oligonuclotide SNP-specific probes that are insensitive to cross-reactivity among multiple probe molecules. MIPs hybridize to genomic DNA, and an enzymatic "gap fill" process produces an allele-specific signature. The resulting circularized probe can be separated from cross-reacted or unreacted probes by a simple exonuclease reaction, and then amplified with a universal set of primers for all probes. Each specific SNP assay is detected via hybridization to an Affymetrix gene chip which has a unique physical position (Hardenbol et al. 2003; Hardenbol et al. 2005). To ensure strict data integrity, concealed duplicated SNP assays and duplicated DNA samples were included throughout the entire genotyping process.

5. *Analysis*

The number of alleles, observed heterozygosity and expected heterozygosity under Hardy-Weinberg Equilibrium (HWE) were computed for each SNP using the web version of Genepop (http://wbiomed.curtin.edu.au/genepop). The P-values of Fisher's exact test for deviations from HWE were computed as per Guo and Thompson 1992 using Genepop.

T-tests were also performed between the means of the major and minor homozygotes for each trait (wherein major and minor homozygotes are determined by their respective frequencies in the relevant population) where there were at least 6 observations in each group (significance $p<0.05$).

6. *Genotype analysis (ParAllele)*

6.1 *Origin of SNPs for Genotyping*

A genome-wide high density panel of 15,036 SNPs was assembled for genotyping across the panel of bulls. Of these SNPs, 10,000 (MegAllele Genotyping Bovine 10,000 SNP Panel, ParAllele) were generated as part of the community project of the International Bovine Genome Sequencing Consortium (IBGSC) (http://www.hgsc.bcm.tmc.edu/projects/bovine/). The remaining 5,036 custom SNPs were selected from the Interactive Bovine In Silico SNP (IBISS) database (Hawken et al. 2004) (http://www.livestockgenomics.csiro.au/ibiss/), from in-house sequencing, and known markers. IBISS is a database application constructed by clustering all publicly available bovine ESTs. From each cluster, a consensus sequence was obtained. When a base in an EST differed from the corresponding base in the consensus sequence, the position was recorded as a SNP candidate. SNP candidates were organized according to their proximity to other SNP candidates and the number of ESTs exhibiting the alternate base at that same location. The custom SNPs described above were taken from a pool of what were considered to be the "best" SNP candidates in IBISS. The "best" SNP candidates are those where the alternate base occurs in at least 30% of the ESTs in that alignment and where no more than two SNP candidates occur in a sliding window of 10 bases. Bovine QTL (quantitative trait loci) regions of interest (Khatkar et al. 2004) were translated to the human genome. The 5,036 custom SNPs were those with predicted human locations most closely corresponded to the QTL regions of interest and/or from key candidate genes.

6.2 Estimation of SNP locations on the bovine genome

The locations of the SNPs were determined on the bovine sequence assembly Btau 3.1 (ftp://ftp.hgsc.bcm.tmc.edu/pub/data/Btaurus/fasta/Btau20060815-freeze/). The SNPs were placed on chromosomal linearized scaffolds using sequence similarity. The FASTA sequence data for each candidate SNP was generated by taking 100 bases of flanking consensus (EST) sequence from either side of the SNP. These FASTA sequences were compared with sequences in the 3.1 assembly using BLAT (Kent 2002) similarity searching specifying a minimum of 95 % identity. SNP positions within the flanking sequence were converted to "exact" positions within the assembly using the BLAT output. The positions for 14,806 of the 15,036 genotyping assays on this sequence map could be estimated. However, only 13,705 SNPs were placed on sequence scaffolds which have been assigned to a real chromosome; the rest (1,101 SNPs) were on chromosomally unanchored scaffolds.

6.3 Identification of haplotype blocks

Haplotype blocks were identified as per the definition of Gabriel et al. (2002) for all autosomal chromosomes, using Haploview software (Barrett et al. 2005), based on estimates of D' for all pair-wise combinations of SNPs within each chromosome. Following Gabriel et al. (2002), a pair of SNPs is defined to be in "strong LD" if the one-sided upper 95% confidence bound of D' is > 0.98 (consistent with no historical recombination) and the lower bound is > 0.7. A haplotype block comprises a region over which less than 5% of informative SNP pairs show strong evidence of historical recombination.

Relatedly, haplotype boundaries comprise the region in the genome spanning the haplotype. Typically, within the bovine genome 95% of such boundaries span 1 million bases or approximately 1 Centimorgan. For example, the operational boundaries for any genetic marker, may therefore include approximately 1 million bases on either side of a genetic marker, thereby acting as a tag genetic marker or proxy for the additional markers that comprise the haplotype.

A total of 727 haplotype blocks made up of three or more SNPs were identified, incorporating a total of 2,972 SNPs, and covering in total 49,570 kb on the bovine sequence map which corresponds to 2.13 % of the combined length of all the autosomes. The average length of the blocks is 68.2 ± 7.4 kb, although the median length of 2.98 kb indicates that most of the blocks are small. The biggest block is made up of 4 SNPs covering 2,296.3 kb on chromosome 5. The distribution of the block size is presented in the Figure 2. From this distribution it was derived that most of the blocks in the genome would be less than 3 Mb.

6.4. Genotype – Trait Associations

Table B is set out below and relates to genetic marker (SNP) identity, position (both in terms of chromosome and location within) and haplotype boundary. The parameters shown are defined as set out below.

Parameter	Description
SEQ ID	The nucleic acid sequence associated with each SNP
SNP_ID	The unique identifying number ascribed to the SNP
Chromosome	The number of the chromosome within which the SNP is located

Position	The position within the chromosome at which the SNP is located
Haplotype Boundary 1	Upstream boundary of haplotype within which SNP resides
Haplotype Boundary 2	Downstream boundary of haplotype within which SNP resides

Tables 1 to 34 set out below identify single nucleotide polymorphisms (SNPs) that have been shown through statistical analysis to be associated with the relevant profit ranking or production trait as identified, and the parameters identified therein are as follows:

Parameter	Description
SEQ ID	The nucleic acid sequence associated with each SNP
Delta	Difference between the means of two homozygotes (AA and aa) more specifically mean breeding values of bulls homozygous for minor allele- mean of breeding values of bulls homozygous for major allele.
p value	P value for significance after T-test analysis for the difference in the means for two homozygotes.

For most traits, values against which means and standard deviations are derived have been ascribed within a numerical range for each production trait, with a value of zero being the midpoint of the range, an increasingly negative value being less beneficial and an increasingly positive value being increasingly beneficial.

However, for some traits such as Cell Count (indicative of mastitis) and Live Weight (an estimate of feed conversion efficiency), a more negative value is more beneficial on the production trait value range.

In addition, the units attached to the numerical values vary between traits, and include, for example, standard metric units such as weight, length and time, currency units such as dollars, percentages and specifically designed unit ranges, for example, a range of 1 to 9 to describe differences in a particular trait.

Further, some traits are calculated first on a letter value rather than a numerical value, for example, from A to E, with subsequent conversion to a numerical value.

7. *Detection of polymorphisms*

The presence or absence of the polymorphism may be analyzed through the use of nucleic acid sequences flanking the polymorphism, wherein the nucleic acid sequences flanking the polymorphism may be PCR primers or sites for enzyme restriction digests,

or sites for location for unambiguous assignment of probe to target sites in a polymorphism detection method.

After amplification, it may be desirable to separate the amplification product from the template and/or the excess primer and other unused reagents. In one embodiment, amplification products are separated by agarose, agarose-acrylamide or polyacrylamide gel electrophoresis using standard methods. Amplification products isolated in this way may be eluted from an excised portion of the gel for further manipulation. The nucleic acid may be removed from the excised portion of an agarose gel by heating the gel in a chaotropic solution, followed by extraction of the nucleic acid.

Separation and isolation of nucleic acids may also be performed by chromatographic techniques known in art. Numerous kinds of chromatography may be used in the present invention, including adsorption, partition, ion-exchange, hydroxylapatite, gel-filtration (molecular sieve), and reverse-phase. These may be performed in a number of formats including, column, paper, thin-layer, and gas chromatography as well as by batch HPLC or FPLC. The range of techniques also includes polymorphism detection by Single strand conformational polymorphism (SCCP) or similar based DNA denaturation and conformational detection systems.

In certain embodiments, the amplification products are visualized. A typical visualization method involves staining of a gel with ethidium bromide and visualization of bands under UV light. Alternatively, if the amplification products are integrally labeled with radio- or fluorometrically-labeled nucleotides, the separated amplification products can be exposed to x-ray film or visualized under light of the appropriate excitatory wavelength.

In one embodiment, following separation of amplification products, a labeled nucleic acid probe is brought into contact with the amplified marker sequence. The probe preferably is conjugated to a chromophore but may be radiolabeled or otherwise labeled to facilitate detection. In another embodiment, the probe is conjugated to a molecule, such as an antibody or biotin, or another molecule carrying a moiety to facilitate detection.

8. Kits

All the essential materials and/or reagents required for screening animals for genetic marker genotype in accordance with the invention may be assembled together in a kit. This may comprise a probe or pairs of primers designed to hybridize specifically to

individual genetic markers of interest in the practice of the present invention. Also included may be enzymes, cofactors and other reagents suitable for amplifying nucleic acids, including various polymerases, deoxynucleotides, metal salts and buffers to provide the necessary reaction mixture for amplification. Such kits also may include enzymes and other reagents required for detection of specific nucleic acids or amplification products. Such kits may comprise, in suitable means, distinct containers for each individual reagent or enzyme as well as for each probe or primer pair.

In certain embodiments, a kit may contain a primer pair comprising a nucleotide sequence for the amplification of a region of the genetic marker containing one of the polymorphisms described herein.

The methods of the invention may be used for the selection of breeding animals and for the selection of animals for milk production. The invention is therefore also concerned with animals selected by the methods of the invention, their progeny and the use of both selected animals and their progeny for breeding, as well as products derived from these animals.

9. Microarrays and biosensor chips

Some embodiments of the present invention encompass methods and kits involving marker assisted selection, wherein oligonucleotides are used as primers to detect polymorphisms in genetic markers, wherein the presence or absence of the polymorphism in the genetic marker is indicative of the presence or absence of the genetic trait, or vice versa. In such embodiments, the use of oligonucleotides as primers may involve attachment, binding or tethering of an oligonucleotide to an insoluble support, wherein the insoluble support is in the form of a "chip", otherwise known as an array or microarray. In such embodiments, the oligonucleotides are substrates, wherein typically a plurality of substrates is coupled, tethered or otherwise attached to the chip. A plurality of oligonucleotides may be positioned upon a chip by any suitable method known in the art, for example, by pipette, ink-jet printing, contact printing or photolithography. The chip may be comprised of at least one element, with each element comprising at least one oligonucleotide. The at least one element may be comprised of a plurality of oligonucleotides of the same sequence. The number of elements comprising a chip may be any number, and where a plurality of elements is positioned on a chip, the elements may be spaced apart at a uniform or a variable distance, or a combination thereof. In some embodiments, the elements may be positioned randomly, with the

respective location of each element then determined. The size and shape of the elements will depend upon the particular application of the present invention, and different sized and shaped elements may be combined into a single chip. The surface of the chip may be substantially planar or may have features such as depressions or protuberances, and the elements may be positioned either into the depressions or onto the protuberances. Such depressions may provide a reservoir for solutions into which the elements are immersed, or such protuberances may facilitate drying of the elements. For example, elements may be placed in each well of a 96 well plate. In some embodiments, the chip may include unique identifiers such as indicia, radio frequency tags, integrated devices such as microprocessors, barcodes or other markings in order to identify each of the elements. The unique identifiers may additionally or alternatively comprise the depressions or protuberances on the surface of the array. Furthermore, the unique identifiers can provide for correct orientation or identification of the chip. The unique identifiers may be read directly by a data capture device or by an optical scanner or detector.

10. Animal Management

The invention also allows prediction of bull or cow phenotype performance and as such can be used in production management systems known as Marker Assisted management- animals more or less suitable for a particular production system can be screened early at birth or as embryo's to predict life time performance and segregated or managed to suit their genotype and therefore predicted phenotype. Typically combinations of markers may account up to 50% of the phenotypic differences between individuals. Examples include high and low milk or milk components, disease resistance, lactation persistency, semen quality, temperament, fertility,.

The present invention will now be described with reference to specific examples, which should not be construed as in any way limiting the scope of the invention.

Examples

Example 1: Australian (Estimated) Breeding Values

BVs are not an absolute measure of how much an animal will produce. Rather, BVs are expressed relative to each other using a base point. The base is the average BV

of a group of animals, which is set at zero. This provides a reference point for comparisons between bulls.

A new base was generated in February 2000, and is the average BV of cows born in 1995. Previously it was the average of a group of NASIS bulls from 1981/82. Cows were included in the new base only if they were born in 1995 and were a daughter of an AB bull and are straightbred (e.g., breedcode of JJJJ for Jerseys) and had at least one lactation used in their BV calculation.

The following sets out the number of cows in the BV base (February 2000).

Breed		Number of cows in the base
Holstein		128,809
Jersey		15,712
Guernsey		763
Red Breeds		
	Illawarra	(1,476)
	Ayrshire	(827)
	Aust Red Breed	(613)
	Dairy Shorthorn	(20)
	Total	2,936
Brown Swiss		297
Simmental		90
Aust Friesian Sahiwal		44

Breed average BVs

Trait	Holstein	Jersey	Red Breeds	Guernsey
Milking Speed	90.3	90.8	88.4	90.0
Temperament	90.4	90.4	89.7	90.0
Survival	5.0	9.0	-1.2	0.0
Likeability	91.3	91.2	88.1	90.0
Overall Type	0.68	0.73	0.16	0.04
Udder depth	0.13	0.05	0.00	0.08
Pin Set	0.01	0.15	0.03	0.02
Cell Count	0.80	-0.10	1.6	-0.60
Stature	0.49	0.35	0.20	-0.05
Body Depth	-0.03	0.05	0.03	-0.03
Chest Width	-0.15	-0.03	0.07	-0.05

The BVs (including APR) are relative to the specific base for each breed and are not comparable across breeds. The breed averages are based on artificially bred bulls born from 1985 onwards in an ADHIS in-house BV analysis.

Example 2: Australian Profit Ranking (APR)

The APR is an index that uses BV's to estimate a ranking that identifies those bulls that produce the most profitable daughters. ADHIS will continue to produce BV's for all individual traits and the ASI. This provides producers with the option to select on ASI or other combinations of traits.

The Australian Profit Ranking (APR) = Selection Index (SI) + Milking Speed (MS) + Temperament (TEMP) + Survival (SURV) + Cell Count (CC) + Live Weight (LWT) + Fertility (FERT), wherein each component is calculated as per the following:

Selection Index (SI) = (3.8 x Protein BV) + (0.9 x Fat BV) – (0.048 x Milk BV)
Milking Speed (MS) = 1.2 x (Milking Speed BV)
Temperament (TEMP) = 2.0 x (Temperament BV)
Survival (SURV) = 3.9 x (Survival BV)
CC = -0.34 x (Cell Count BV)
LWT = -0.26 x (Liveweight BV)

FERT = 3.0 x (Daughter Fertility BV)

Example 3: Breeding values for Production traits

Breeding values for the following production traits were also calculated. These traits inlcude: Milk protein yield (kg), Milk Protein (w/v) (%), Milk Volume (Litres), Milk Fat Yield (kg) and Milk Fat % (w/v) (kg).

3.1 Milk protein yield (kg)

Protein content of milk is assessed in automated machines (Bentley Instruments www. Bentleigh instruments.com; Foss Instruments www.Foss.dk). Protein content of milk is assessed by infrared scanning of milk specific for N-H amine bond absorption.

3.2 Milk Protein (w/v) (%)

Milk protein % is calculated by dividing milk protein yield (g) by milk volume litres (L).

3.3 Milk Volume (Litres)

A volumetric sample from an on-farm meter is weighed, and milk volume is calculated based on the weight and average density of milk.

3.4 Milk Fat Yield (kg)

Fat yield is assessed in automated machines (Bentley Instruments; Foss Instruments). Fat yield of milk is assessed by infrared scanning of milk specific for C=O and C-H groups.

3.5 Milk Fat % (w/v)

Milk fat % is calculated by dividing milk fat yield (g) by milk volume litres (L)

Example 4: Breeding values for individual type traits

Breeding values for the following type traits were also calculated. These traits include: stature, udder texture, bone quality, angularity, muzzle width, body depth, chest width, pin set, pin width, foot angle, rear leg view, udder depth, fore attachment, rear attachment height, rear attachment width, centre ligament, teat placement, teat length and loin strength

4.1 Stature

Stature is measured from the top of the spine in between the hips to the ground. The measurement is precise. The trait is measured on a liner scale of 1-9, wherein each point increase is 3 cm in between the range listed below

1 – Short	1.30 Metres
5 – Intermediate	1.42 Metres
9 – Tall	1.54 Metres

4.2 Udder Texture

Is a measure of the glandular milk making tissue in the udder emphasized by its collapsibility when milked, vein network and softness. Fibrous and fatty tissue in the udder restrict a dairy cow's ability to produce large quantities of milk. A prominent and distinctive vein network on the side of the udder is a reliable indicator of desirable texture. The trait is measured on a linear scale of 1-9, wherein: 1 – Fleshy and 9 – Soft.

4.3 Bone Quality

Bone quality is believed to be a reliable indicator of milking ability in a dairy cow. A flat bone is "dense", and is more desirable in dairy compared with round or coarse bones which are associated with beef rather than dairy production. The trait is measured on a liner scale of 1-9, wherein 1 = coarse bone and 9 = flat bone.

4.4 Angularity

Angularity is defined as the angle and openness of the ribs, combined with the flatness of bone in a two year old heifers. Angle and open rib account for 80% of the weighting and bone quality accounts for 20%. The trait is scored on a scale of 1-9, wherein (1-3) means non-angular - lacks angularity, close ribs, coarse bone, (4-6) means intermediate angle with open rib and (7-9) means very angular open ribbed flat bone.

4.5 Muzzle Width

Muzzle width and openness of nostrils as an identified trait is highly important in a country such as Australia where cattle frequently walk vast distances to access feed in extremely warm conditions. The trait is scored on a scale of 1-9, wherein 1 = Narrow muzzle and 9 = Wide Muzzle

4.6 Body Depth

Is the distance between the top of spine and the bottom of the barrel at the last rib – the deepest point. The trait is scored on a scale of 1-9, wherein 1 – 3 is shallow, 4 - 6 is intermediate and 7 – 9 is deep.

4.7 Chest Width

Chest width is measured from the inside surface between the front two legs. This trait is measured on a linear scale from 1-9, where each point is equal to 2 cm based on the range listed below as per (1–3) = narrow (13 cm), (4–6) = intermediate and (7–9) = wide (29 cm).

4.8 Pin Set

This trait is measured as the angle of the rump structure from hooks (hips) to pins on a linear scale of 1 – 9

1 High Pins	(4 cm)
2	(2 cm)
3 Level	(0 cm)
4 Slight slope	(-2 cm)
5 Intermediate	(-4 cm)
6	(-6cm)
7	(-8 cm)
8	(-10 cm)
9 Extreme Slope	(-12 cm)

4.9 Pin Width

This trait is calculated as the distance between the most posterior point of the pin bones, where 1 = 10cm and 9 = 26 cm and every point between is calculated upon intermediate 2 cm lengths.

1 – 3 Narrow

4 – 6 Intermediate

7 – 9 Wide

4.10 Foot Angle

This trait is calculated as the angle at the front of the rear hoof measured from the floor of the hairline at the right hoof. This trait is measured on a linear scale from 1-9, where:

1 - 3 Very Low angle

4 - 6 Intermediate angle

7 – 9 Wide angle

Where 1 = 15 degrees, 5 = 45 degrees and 9= 65 degrees

4.11 Rear Leg View

This trait is the direction of the feet when the viewed from the rear.

1 – Extreme toe out

5 – Intermediate toe out

9 – Parallel feet

4.12 Udder Depth

This trait is calculated as the distance from the lowest part of the udder floor to the hock where:

1 = Below hock

2 = Level with hock

5 = Intermediate

9 = Shallow

4.13 Fore Udder Attachment

This trait is calculated as the strength of the attachment of the fore udder to the abdominal wall. This is not a true linear trait.

1 – 3 Weak and Loose

4 – 6 Intermediate acceptable

7 – 9 Extremely strong and light

4.14 Rear (Udder) attachment height

This trait is calculated as the distance between the bottom of the vulva and the milk secreting organ in relation to the height of the animal. A score of 4 represents the mid point of 29 cm, and each point is worth 2 cm.

1 Very Low	23 cm
2	25 cm
3	27 cm
4 Intermediate	29 cm
5	31 cm
6	33 cm
7	35 cm
8	37 cm
9 High	39 cm

4.15 Rear (Udder) attachment width

This trait is calculated wherein the reference point for measurement is the top of the milk secreting organ to each pin measured on a linear scale of 1 to 9, where 1 is extremely narrow and 9 is extremely wide.

4.16 Centre Ligament

This trait is calculated as the depth of the cleft measured at the base of the rear udder.

1. Convex to flat floor	(1 cm)
2.	(0.5cm)
3.	(0 cm)
4.Slight Definition	(-1 cm)
5.	(-2 cm)
6.	(-3 cm)
7. Deep Definition	(-4 cm)
8.	(-5 cm)
9.	(-6 cm)

4.17 Teat Placement

This trait is calculated as the position of the front teat from the centre of the quarter.

1 – 3 Outside of quarter

4 – 6 Middle of quarter

7 – 9 Inside quarter

4.18 Teat Length

This trait is calculated as the length of the front teat, where each point is 1 cm and the scale ranges from 1 to 9.

1 - 3 Short

4 – 6 Intermediate

7 – 9 Long

Example 5: Breeding values for Live Weight

Live Weight is reported as a deviation in kilograms of live weight from the base set at zero. Live Weight is based on BV's measured by breed societies. The predictors and their relative contributions are:

Live Weight = (0.5 x stature BV) + (0.25 x Chest Width) + (0.25 x Body Depth)

A bull with a lower Live Weight BV will reduce the live weight of their daughters while a bull with a higher Live Weight BV will increase the live weight of their daughters.

Example 6: Breeding values for workability

Workability is reported as a combination of the following traits: milking speed, temperament and likeability.

Each of these traits are scored on a scale from A to E by the dairy farmer, where A is very desirable and E is very undesirable. Satisfactory daughters are those expected to receive scores of C, B or A from the farmer. The metric is expressed as a percentage:

$$\% = \frac{\text{number of offspring expected to be satisfactory (A,B,C)}}{\text{all offspring ranked}}$$

Example 7: Breeding values for Cell Count

Cell count breeding value is expressed as the % increase or decrease in cell count compared to the average or BASE (set at zero). Thus a bull with lower CC BV has daughters with lower somatic cell count which is an indicator of increased mastitis resistance, and a bull with a higher CC BV has daughters with higher somatic cell count which is an indicator of mastitis susceptibility.

Cell count can be assessed by laser-based flow cytometry, being a common method for distinguishing between different cell populations and/or counting cell numbers. Briefly, a milk sample is taken and mixed with a fluresc sent dye, which disperses the globules and stains DNA in somatic cells. An aliquot of the stained suspension is injected into a laminar stream of carrier fluid. Cells are separated by the stream of carrier fluid and exposed to a laser beam. As the cells pass through the excitation source the stained cell nuclei fluoresce, the signal which is multiplied and cell number calculated. Indicative CC levels are as follows:

Over 200,000:	mastitis
<200,000:	maximum desired number of somatic cells/ml milk
<100,000:	number of somatic cells/ml milk where the cow is considered to have minimal to no mastitis [ICAR]

Example 8: Breeding values for fertility

Daughter fertility BVs measure the difference between bulls for the percentage of their daughters pregnant by 6 weeks after mating start date. In year-roundhers this is equivalent to the percentage of their daughters pregnant by 100 days after calving. Data is derived from the following records:

- Calving dates used to determine calving interval and stage of pregnancy
- Mating data is used to determine days to first service

Example 9: Breeding values for survival

The survival index is reported as the percentage of daughters that survive from one year to the next compared to the average/BASE (set at zero). The Survival Index is based on actual daughter survival and a combination of predictors of survival. The predictors and their relative contributions are:

Survival Predictors = (0.5 x likeability) + (1.8 x Overall Type) + (3.0 x Udder Depth) + (2.2 x Pin Set)

Example 10: Breeding values for Calving Ease

The calving ease BV is expressed as the percentage of 'normal' calvings expected when joined to mature cows in the average Australian herd. The calving ease for a bull is based on farmer assessment of the difficulty experienced with the birth of the progeny of the bull, relative to births in the same herd in the same season.

Example 11: Mammary System

Mammary System BV is calculated using the formula below based on linear traits that have been differentially weighted. The differential weighting of each of the linear traits is based on regression analysis and the contribution of these traits to the variance observed in the system overall.

Mammary System = (Udder texture x 0.161) + (Fore Attachment x 0.4753) + (Rear attachment height x 0.454) + (rear attachment width x 0.448) + (Centre Ligament x 0.355) + (teat placement x 0.269)

Example 12: Overall Type

Overall type is a categorization of an individual assigned by a person skilled in the art on the basis of an assessment of "type" individually assessed.

Example 13: Selection Index

Selection Index is expressed as the net financial profit (in $) per cow per year. It includes a consideration of protein, fat and milk volume traits. The formulation is based on the milk payment system whereby farmers are paid by the percentage of protein and fat in milk, with a charge on milk volume.

ASI = (3.8 x Milk protein yield BV) + (0.9 x Fat Yield BV) – (0.048 X Milk Volume BV)

Example 14: Australian Profit Value and reliability of ranking

When a team of young bulls is being assembled ready for genetic testing, they are usually assessed using a predicted breeding value, calculated as half the BV of the sire plus a quarter of the BV of the sire of the dam of the young bull. This prediction is sometimes known as the sire pathway prediction. It takes another four years after this

prediction is made before we obtain the test results for the bull based on a sample of his daughters (progeny test).

In this analysis a comparison was made between predictions which would have been made in 2001 with the most recent progeny test results. The yardstick for this comparison is the "percentage of variance explained" by the prediction (R^2). This may also be thought of as the Reliability of young bull selection. By also considering a small number of the most informative markers for a particular trait we can lift this "percentage of variance explained"; the degree of improvement varies from trait to trait depending on the size of the individual gene effects. As a demonstration of this principle results for three traits are presented.

14.1 Australian profit ranking [APR]

The R^2 value when predictions are made using only sire and maternal grandsire APRs was 0.54. This means that 54% of the variance in 2005 APR's could be explained using the prediction that would have been the made in 2001 using the Sire Pathway Prediction. The scatter plot (Figure 1) shows the Sire Pathway Prediction on the horizontal axis and the 2005 APR based for the corresponding progeny test shown on the vertical axis.

By also including the best 200 markers for APR (based on earlier T-tests), the adjusted R^2 value increased to 0.89. This means 89% of the variance in breeding values for APR could be explained using the prediction that would have been the made in 2001 using the Sire Pathway Prediction and the markers (treated as fixed effects). This is equivalent to a Reliability of Selection of 89%. This represents an improvement of 35 percentage points (from 0.54 to 0.89), which may also be viewed as a 64% increase in the Reliability of Selection (100 x ((0.89/0.54)-1).

14.2 Protein (kg)

The same logic was applied to Protein Kilos per cow per year. An improvement in selection reliability of 27 percentage points (0.64-0.61) was observed. This may also be viewed as a 45% increase in the Reliability of Selection (100 x ((0.88/0.61)-1).

14.3 Overall Type Score

This was also applied to Overall Type Score as an example of a visually scored trait with a lower heritability but which is commercially important. An improvement in

selection reliability of 44 percentage points (0.82-0.38) was observed. This may also be viewed as a 116% increase in the Reliability of Selection (100 x ((0.82/0.38)-1).

14.4 Trait Set

This logic was applied in the form of a relationship between multiple markers and estimated breeding value as a simple correlation (r) or multiple regression co-efficient (R**2) for all 38 traits and the results are set out below in Table A.

Table A: relationship between multiple markers and estimated breeding value as a simple correlation (r) or multiple regression co-efficient (R2) for 38 dairy traits.**

Trait number	Trait	r=ALL SNPs	r=Top 200		R**2 All	R**2 top 200
1	apr	0.9447	0.9407		0.8925	0.8849
2	asi	0.94	0.9331		0.8836	0.8707
3	protein	0.9437	0.9392		0.8906	0.8821
4	Protein percent	0.9278	0.9072		0.8608	0.823
5	Milk volume	0.9289	0.9236		0.8629	0.853
6	fat	0.9129	0.9055		0.8334	0.8199
7	Fat percent	0.9336	0.9311		0.8716	0.8669
8	Overall type	0.9216	0.9065		0.8493	0.8217
9	Mammary system	0.934	0.9305		0.8724	0.8658
10	stature	0.9091	0.9027		0.8265	0.8149
11	Udder texture	0.9326	0.9259		0.8697	0.8573
12	Bone qualilty	0.9108	0.9006		0.8296	0.8111
13	angularity	0.8926	0.8753		0.7967	0.7662
14	Muzzle width	0.9079	0.8724		0.8243	0.7611
15	Body depth	0.9076	0.9007		0.8237	0.8113
16	Chest width	0.9049	0.8966		0.8188	0.8039
17	Pin width	0.8985	0.8861		0.8073	0.7852
18	Pin set	0.8783	0.8679		0.7714	0.7533
19	Pin sign	0.8438	0.8149		0.712	0.6641
20	Foot angle	0.903	0.8966		0.8154	0.8039
21	Set sign	0.8601	0.846		0.7398	0.7157
22	Rear leg view	0.8882	0.8639		0.7889	0.7463
23	Udder depth	0.8949	0.8846		0.8008	0.7825
24	Fore attachment	0.8931	0.8842		0.7976	0.7818
25	Rear attachment height	0.9244	0.918		0.8545	0.8427
26	Rear attachment width	0.9111	0.9011		0.8301	0.812
27	Centre ligament	0.918	0.9086		0.8427	0.8256
28	Teat placement	0.9096	0.8944		0.8274	0.8
29	Teat length	0.9031	0.8968		0.8156	0.8043
30	Loin strength	0.917	0.8692		0.8409	0.7555
31	Milking speed	0.8497	0.829		0.722	0.6872
32	temperament	0.8348	0.8061		0.6969	0.6498
33	likeability	0.8609	0.8438		0.7411	0.712
34	survival	0.9309	0.9232		0.8666	0.8523
35	Calving ease	0.0821	0.0918		0.0067	0.0084
36	Somatic cell count	0.8873	0.8745		0.7873	0.7648
37	Cow fertility	0.9169	0.9056		0.8407	0.8201
38	Live weight	0.9065	0.8986		0.8217	0.8075

Example 15: QTL Analysis: Lactation Traits

Lactation traits can also be used in predicting the genetic merit of an animal.

A lactation curve is the graph of milk production against time. Each cow in a herd has its own individual curve relating to its lactation potential and other external

influences such as the environment and nutrition. Characteristics of the curve include measurements such as the persistency of lactation, total milk produced over the lactation, and the time of peak production.

Wood proposed the following function to model the lactation curve $W(t) = at^b e^{-ct}$ where $W(t)$ is the theoretical or expected milk yield at time t; and a, b, and c are parameters that determine the shape of the curve (Wood *et al.* 1967). The parameters of the Wood function have been reparameterised to obtain estimates for total volume, peak volume and time to reach the peak.

Negative energy balance in early lactation is often associated with reduced fertility. This is usually a result of the cow producing at her peak at the time of insemination. A cow with a low peak and consistent production should be able to avoid these problems and maintain fertility. These cows can now be identified with the assistance of the estimates from the model.

Another application of the model is prediction of lactation potential from the first few records which would allow farmers to manage their herd appropriately in terms of feeding and reproduction.

15.1 List of Lactation Traits:

Category	No.	Parameters*	Variable Names
Wood Model	1.	LogA	LogA
	2.	B	B
	3.	C	C
Persistency	4.	Proportion of Ytot attained by 300 days	P(300)
	5.	Ratio of peak yield to yield on Day 300	y_{max}:y(300)
Yield	6.	Cumulative yield up to 300 days (=Y_{tot} * P(300))	Y_{Cum}(300)
	7.	Total cumulative Yield	Y_{tot}
	8.	Maximum Yield	Y_{max}
	9.	Time of maximum yield	t_{max}
	10.	Milk yield at Day 300 (not cumulative)	Y300
	11.	Time at which 90% of Y_{tot} is reached	t(0.9Y_{tot})
	12.	Extrapolation measure for for t(0.9Y_{tot}): 1 if extrapolation (after recording stopped), 0 otherwise	X(0.9Y_{tot})
	13.	Time at which 75% of Y_{tot} is reached	t(0.75Y_{tot})
	14.	Extrapolation measure for for t(0.9Y_{tot}): 1 if extrapolation (after recording stopped), 0 otherwise	X(0.75Y_{tot})

* Original Parameter: No. 1-3; Derived Parameter: No. 4-14

TABLE 1 - GENETIC MARKERS FOR PROTEIN YIELD

A	B	C	A	B	C	A	B	C
2	10.00	3.29E-07	2466	-3.80	2.44E-05	4871	-4.00	3.38E-05
3	2.60	3.48E-03	2470	-9.80	7.24E-12	4873	6.40	1.03E-09
4	8.90	1.14E-08	2471	10.00	1.35E-27	4879	-7.70	1.13E-16
5	-3.80	5.05E-03	2472	-5.80	2.01E-08	4880	-8.10	2.03E-04
6	-4.60	1.60E-03	2473	5.30	1.79E-03	4882	-2.90	2.42E-03
8	2.50	4.47E-03	2476	8.10	3.31E-19	4887	-5.70	6.43E-04
13	4.10	3.81E-05	2479	3.20	6.70E-07	4890	-8.90	1.71E-07
15	6.80	1.59E-07	2480	2.90	1.22E-05	4893	6.70	9.07E-13
16	2.80	4.31E-03	2483	5.90	4.85E-09	4894	-5.10	2.83E-07
21	4.20	3.89E-06	2484	8.40	3.75E-20	4898	6.80	3.57E-22
22	-5.70	1.05E-09	2485	8.60	1.03E-22	4904	-3.40	1.37E-04
35	-7.00	4.72E-15	2486	4.90	9.39E-08	4905	-7.60	2.52E-07
36	-10.00	1.88E-13	2489	3.60	5.82E-04	4909	-4.00	4.03E-06
38	-13.50	2.62E-13	2490	-8.30	6.83E-05	4911	8.50	7.12E-13
39	-15.50	2.54E-16	2491	9.30	1.97E-28	4914	-5.90	8.89E-10
46	-3.60	8.77E-04	2492	-7.20	1.94E-06	4917	3.10	9.66E-04
50	-7.50	2.46E-05	2495	4.10	1.57E-05	4919	12.00	4.13E-07
52	-7.10	1.08E-14	2497	2.60	4.01E-03	4920	6.20	5.79E-12
54	3.70	4.12E-05	2499	4.10	6.18E-05	4924	5.10	2.38E-08
55	4.50	9.90E-03	2501	-3.50	7.95E-08	4927	3.70	3.95E-07
56	-3.60	2.91E-04	2504	-5.30	8.09E-04	4929	-3.50	1.07E-03
62	-4.80	6.97E-03	2505	-2.50	5.58E-03	4936	-9.00	4.98E-16
63	-7.40	1.85E-17	2508	-3.10	1.21E-03	4937	5.00	7.49E-08
65	-4.20	1.33E-03	2510	-10.90	1.71E-05	4938	4.80	2.50E-07
66	-7.70	2.68E-18	2511	6.20	2.68E-07	4946	-2.80	1.89E-03
67	5.80	1.86E-10	2515	4.70	1.05E-03	4951	5.00	2.47E-07
71	-6.20	4.88E-08	2516	-4.30	8.64E-04	4953	3.00	8.16E-03
73	4.80	3.09E-05	2518	3.90	1.80E-05	4956	-3.80	7.02E-03
75	-3.40	7.54E-05	2521	6.50	2.93E-08	4957	2.40	9.24E-03
77	-8.30	2.58E-20	2522	-9.20	3.24E-25	4958	5.70	1.31E-10
83	-4.60	2.28E-05	2523	-9.40	1.22E-25	4960	7.30	2.06E-04
86	6.00	4.43E-05	2527	4.70	2.43E-07	4962	-10.90	1.09E-09
97	-7.00	5.27E-15	2532	-8.50	3.32E-16	4967	2.60	1.41E-03
99	7.90	5.19E-21	2534	5.80	2.09E-04	4973	6.10	3.16E-09
101	-7.10	2.33E-15	2535	8.50	1.93E-10	4976	-10.70	2.20E-11
106	5.50	9.66E-10	2537	2.50	1.30E-03	4977	-6.60	4.79E-07
114	-5.20	9.51E-07	2543	4.50	4.72E-04	4978	-8.40	1.17E-04
117	-3.00	9.61E-04	2550	-10.10	1.71E-08	4982	-5.40	1.28E-08
118	-2.70	4.27E-03	2553	2.70	4.50E-03	4986	-4.80	3.57E-04
120	-6.90	2.07E-07	2559	-9.00	1.39E-04	4987	-11.70	3.39E-06
126	5.20	6.59E-04	2560	-3.30	8.03E-04	4991	-8.40	1.76E-20
131	4.10	1.62E-06	2568	5.70	8.58E-09	4994	-4.40	4.17E-06
133	8.30	1.19E-12	2571	-6.80	2.72E-10	4995	-5.10	8.34E-04
136	-7.30	1.32E-03	2572	3.40	9.30E-03	4996	-10.20	7.32E-14
137	-5.10	4.80E-08	2575	9.10	1.66E-06	5003	-4.70	1.54E-03
142	-2.70	1.43E-03	2577	-8.10	3.60E-07	5004	-13.50	2.07E-13
145	4.80	1.36E-05	2578	-8.30	7.32E-07	5005	-13.50	2.19E-13
148	-4.10	8.06E-04	2580	7.10	2.60E-11	5010	-6.00	3.19E-06
152	8.80	5.18E-12	2582	-3.40	2.01E-04	5013	2.90	6.53E-04
154	-7.90	2.54E-08	2584	3.00	1.67E-03	5016	-5.80	9.60E-14
159	-5.50	1.64E-06	2587	-5.70	1.17E-07	5025	11.20	2.54E-39
161	-3.10	6.28E-04	2590	8.10	5.35E-07	5026	-3.30	3.24E-03
162	-9.40	3.64E-06	2591	-3.50	5.31E-04	5028	-3.10	2.18E-04
168	7.80	2.36E-17	2595	9.20	4.74E-27	5030	-3.00	6.70E-04
171	5.60	4.52E-10	2596	-3.70	7.70E-03	5034	2.60	9.21E-03

173	-7.30	1.38E-04	2599	-3.80	1.07E-04	5036	4.30	5.66E-06
174	5.10	3.67E-04	2604	-9.40	2.86E-18	5037	-4.90	7.33E-08
176	-11.00	1.66E-31	2608	8.20	1.65E-18	5038	-6.10	6.78E-03
177	5.70	2.82E-09	2611	-7.40	1.57E-07	5044	-6.10	8.99E-06
181	5.80	1.04E-11	2612	-6.20	4.97E-11	5046	-4.50	1.03E-06
185	6.10	2.95E-09	2613	-5.80	9.28E-08	5060	3.50	2.33E-04
							125	
186	4.20	1.99E-05	2614	3.80	6.91E-04	5061	-9.60	2.79E-08
189	-4.70	6.64E-05	2617	-6.30	2.14E-06	5063	-8.20	6.93E-07
191	-6.50	3.18E-12	2619	4.80	1.24E-04	5066	-2.80	2.10E-03
194	8.40	2.99E-20	2620	5.20	3.51E-11	5069	5.30	4.92E-08
198	2.50	4.79E-03	2622	4.30	4.18E-06	5070	7.20	4.53E-11
200	-7.30	4.37E-14	2624	4.00	1.72E-05	5071	4.50	3.61E-07
201	-5.70	1.74E-09	2630	7.10	5.81E-06	5074	-8.70	3.49E-05
203	-2.60	4.73E-03	2633	-9.60	2.60E-08	5078	-5.00	3.04E-11
206	3.50	1.64E-03	2635	3.00	8.99E-03	5079	8.70	3.25E-21
210	-4.50	2.17E-05	2638	-7.10	1.40E-04	5083	6.20	5.12E-10
211	2.70	4.34E-03	2639	3.40	1.49E-03	5086	5.70	1.89E-11
215	-8.40	3.45E-09	2640	8.10	1.85E-06	5088	2.80	6.02E-06
217	9.40	1.97E-16	2642	4.10	1.15E-05	5093	-5.10	3.20E-08
219	5.50	6.01E-09	2649	-3.90	2.57E-05	5094	6.30	1.01E-05
220	-5.50	1.23E-08	2650	4.30	1.77E-06	5095	-5.00	2.36E-04
221	-5.70	2.18E-08	2652	-3.20	4.74E-03	5098	4.30	6.64E-06
224	-4.20	9.65E-03	2657	4.00	3.99E-05	5101	-3.00	3.56E-03
225	4.30	2.32E-06	2664	3.40	2.11E-04	5102	-6.60	5.78E-04
226	-5.20	3.89E-03	2665	3.50	1.44E-04	5106	-4.50	4.37E-03
231	-9.40	3.47E-18	2667	7.30	1.16E-06	5107	-5.00	1.58E-03
233	-4.60	2.31E-06	2668	-7.10	7.57E-15	5108	5.10	3.91E-06
235	-3.40	5.29E-03	2670	-6.00	9.92E-05	5109	3.50	2.02E-03
237	-4.60	1.09E-03	2673	5.00	2.32E-05	5114	5.90	2.26E-06
238	-6.40	9.99E-09	2677	3.40	9.67E-03	5117	10.00	4.47E-08
242	4.80	2.84E-08	2682	6.10	3.17E-03	5122	-8.70	8.08E-11
246	-7.50	7.69E-08	2686	7.20	1.10E-08	5124	-8.50	1.29E-18
248	4.70	1.67E-03	2687	5.60	2.28E-08	5125	6.10	4.46E-12
249	-4.80	3.22E-07	2688	-6.20	3.74E-11	5132	2.40	9.78E-03
251	5.20	2.59E-09	2693	4.60	3.95E-06	5133	-13.10	1.10E-16
255	12.50	2.08E-07	2694	5.10	1.09E-03	5134	-6.70	9.92E-14
256	-4.10	6.25E-04	2696	6.50	2.26E-11	5138	-5.30	1.50E-08
257	5.30	7.06E-07	2698	3.20	2.85E-04	5143	-5.70	4.15E-03
258	-3.90	5.22E-05	2702	4.70	2.28E-04	5148	-8.60	2.60E-15
259	10.20	9.58E-06	2703	-9.10	1.22E-10	5149	-3.10	2.68E-03
262	-5.20	3.81E-09	2705	-7.50	5.29E-17	5155	-9.60	3.37E-05
263	-4.40	4.81E-04	2707	-4.60	1.31E-05	5164	-6.10	1.37E-11
264	4.20	5.79E-03	2712	-3.40	4.68E-04	5165	3.30	2.42E-03
265	-4.00	1.63E-04	2714	-14.00	1.29E-12	5170	4.30	1.27E-06
270	3.20	6.52E-05	2720	-5.40	6.67E-03	5172	-8.20	1.68E-20
273	3.60	2.03E-03	2721	3.30	7.39E-03	5175	-3.60	7.85E-03
277	5.20	4.43E-04	2726	4.10	6.67E-04	5176	-13.10	4.02E-08
282	5.50	1.14E-09	2727	3.10	2.14E-03	5178	5.30	8.56E-05
287	3.80	8.55E-05	2730	-11.00	1.08E-09	5179	-7.70	3.07E-05
288	3.90	6.17E-05	2731	-10.90	1.38E-09	5185	7.00	3.20E-10
298	3.70	3.69E-05	2735	10.20	1.10E-29	5199	-4.20	2.65E-04
299	4.10	4.23E-03	2736	5.40	3.82E-09	5201	-5.00	1.78E-07
300	2.80	3.48E-03	2740	4.20	1.19E-05	5204	-4.60	7.23E-07
305	8.10	2.84E-20	2742	-7.90	4.63E-07	5205	-4.70	1.40E-04
307	4.10	3.57E-06	2743	4.70	4.07E-05	5207	7.90	5.72E-13
308	5.00	3.56E-06	2746	5.30	7.04E-15	5209	3.00	1.20E-03
309	2.50	2.31E-03	2752	-7.60	2.76E-06	5211	6.00	5.48E-07

312	-5.10	6.05E-08	2754	11.30	5.38E-41	5212	-2.90	1.76E-03
318	-7.80	8.80E-19	2756	-10.10	4.71E-29	5219	3.10	3.17E-03
321	6.80	1.52E-08	2760	-9.10	4.92E-22	5220	-3.80	5.42E-05
323	-6.20	2.86E-05	2761	-9.00	1.09E-21	5223	3.20	2.71E-04
326	4.20	4.87E-06	2772	-4.00	6.17E-05	5229	-4.40	3.49E-03
327	-4.40	1.54E-05	2773	-4.40	2.36E-03	5230	5.20	2.49E-09
328	-6.70	1.31E-07	2774	6.90	2.13E-06	5231	6.50	1.33E-10
330	-10.20	1.69E-13	2776	-5.00	5.04E-03	5232	5.60	1.43E-05
331	-4.70	5.78E-07	2777	-5.80	8.69E-06	5234	2.60	6.93E-03
333	3.90	5.55E-06	2778	5.40	1.36E-09	5235	-6.10	1.43E-07
334	2.80	3.68E-03	2779	-2.40	9.55E-03	5237	5.50	1.04E-09
335	-3.60	2.65E-03	2781	8.60	6.60E-17	5239	-5.00	1.40E-06
							126	
336	-7.40	1.81E-15	2782	4.50	2.21E-12	5241	-3.50	1.19E-04
337	6.20	1.96E-11	2786	2.90	1.86E-03	5242	2.50	1.63E-03
343	-10.70	1.70E-06	2788	6.00	7.70E-07	5247	3.90	1.26E-05
345	-7.90	1.18E-11	2789	5.20	3.91E-04	5251	-3.70	3.49E-08
348	-3.10	7.54E-04	2791	3.70	1.08E-03	5252	-3.90	9.15E-09
352	4.20	5.27E-04	2793	-3.10	1.61E-03	5253	3.20	2.43E-04
354	-11.70	1.82E-22	2796	3.20	3.19E-04	5255	3.20	6.15E-04
363	-7.10	4.62E-04	2805	6.10	6.48E-04	5258	9.70	4.97E-07
364	-4.80	3.49E-03	2816	-7.50	4.78E-05	5261	-7.20	3.86E-14
367	-2.60	4.54E-03	2817	-3.90	4.52E-03	5262	5.00	1.20E-03
368	1.90	4.26E-03	2820	-8.30	1.52E-12	5267	-7.70	3.21E-03
369	7.30	1.30E-08	2821	-5.30	1.05E-09	5272	2.80	1.96E-03
372	-9.10	9.21E-10	2822	-5.90	1.91E-09	5273	-6.30	5.87E-11
373	8.60	1.08E-05	2824	2.50	7.96E-03	5274	-6.30	6.20E-11
376	-7.40	1.32E-07	2828	6.90	8.33E-12	5275	-5.40	6.85E-09
377	-14.00	1.41E-12	2829	-12.00	2.95E-24	5276	-9.00	5.08E-04
381	5.40	3.13E-09	2830	-12.40	6.99E-28	5278	3.70	5.85E-03
386	-6.40	1.26E-03	2832	5.30	1.12E-06	5279	-6.30	1.91E-12
390	-4.70	3.81E-06	2838	-10.90	7.69E-27	5280	7.30	6.43E-07
393	8.80	1.15E-17	2843	7.60	4.14E-17	5285	-10.60	2.41E-25
394	-7.70	1.30E-15	2844	-6.60	4.83E-05	5291	10.40	5.21E-08
395	-5.70	4.45E-10	2845	-6.40	2.10E-04	5293	-7.60	6.28E-07
396	-6.30	1.15E-07	2848	-8.50	7.65E-21	5294	8.60	7.34E-09
404	10.10	4.78E-17	2850	-7.60	6.29E-07	5295	-6.30	3.70E-05
407	-3.50	5.53E-04	2857	-7.10	3.40E-08	5300	4.90	3.58E-03
408	-9.40	6.08E-12	2860	9.00	1.35E-04	5302	-8.40	1.69E-21
409	-3.70	3.66E-05	2867	-9.90	3.26E-12	5308	-9.00	1.16E-23
410	-7.10	1.21E-16	2872	5.40	9.89E-09	5310	-5.10	2.44E-03
411	-7.20	5.76E-17	2874	-5.40	2.40E-05	5316	5.50	5.06E-07
412	-12.40	7.46E-28	2877	5.80	1.81E-03	5317	5.70	7.62E-10
413	3.80	1.30E-04	2878	-4.40	2.70E-07	5319	-5.10	5.56E-04
415	-8.40	5.11E-15	2882	3.90	4.47E-05	5320	3.60	2.97E-04
416	-2.80	8.89E-03	2888	-5.90	6.84E-11	5321	5.20	1.29E-07
418	5.20	1.48E-04	2889	2.70	5.94E-03	5322	4.50	7.67E-03
424	-5.80	3.87E-04	2890	10.30	3.95E-37	5323	-4.90	4.74E-08
425	-4.90	4.81E-08	2891	4.60	4.94E-07	5326	-2.50	9.00E-03
429	5.10	1.54E-08	2892	-5.40	8.61E-03	5329	-10.90	3.22E-08
440	3.90	2.07E-05	2896	-5.50	6.33E-06	5330	2.70	5.94E-03
444	-5.90	1.70E-09	2897	-5.80	6.31E-04	5333	-3.20	2.41E-03
447	-4.00	2.51E-04	2898	-6.00	6.22E-04	5334	-3.10	3.09E-03
450	4.60	8.35E-07	2900	5.70	3.47E-07	5335	-3.20	1.28E-03
465	-7.80	7.39E-08	2901	-8.90	4.02E-16	5338	2.40	3.52E-03
467	-7.50	1.42E-16	2907	-4.30	7.52E-06	5340	-14.20	3.00E-09
470	-3.30	9.54E-03	2909	-3.60	9.93E-05	5343	2.90	6.71E-03
474	5.80	1.17E-10	2910	-2.90	8.72E-03	5344	7.80	1.08E-20

475	-3.10	4.29E-03	2914	6.80	4.88E-11	5345	11.90	2.03E-46
476	10.10	1.64E-21	2922	6.40	4.42E-07	5348	6.20	2.10E-07
477	5.00	6.99E-08	2924	8.10	3.00E-17	5350	6.20	1.10E-08
478	5.00	2.11E-08	2929	-2.60	4.47E-03	5353	7.70	1.32E-18
479	-17.00	5.67E-12	2939	-2.90	1.61E-03	5355	3.90	1.15E-05
481	5.80	4.79E-09	2941	-8.10	7.12E-12	5360	5.50	1.47E-05
488	-3.50	7.80E-04	2946	7.50	9.30E-15	5361	-3.70	3.36E-03
490	-4.30	9.17E-03	2954	-3.20	1.62E-06	5363	-3.20	1.30E-03
497	-11.60	1.55E-23	2955	-9.70	5.99E-10	5367	-4.40	1.37E-06
499	6.70	4.04E-09	2959	-8.70	7.66E-21	5368	4.10	1.28E-04
500	7.10	5.57E-04	2960	2.90	4.91E-03	5369	-6.00	2.41E-07
502	-3.60	7.93E-05	2962	2.50	7.00E-03	5372	-6.20	1.59E-03
503	-3.80	5.27E-04	2965	2.80	1.73E-03	5377	4.80	2.38E-04
507	-7.80	9.71E-17	2968	-3.80	1.81E-04	5379	-8.90	2.45E-21
508	7.60	1.14E-18	2970	-4.30	1.27E-03	5381	2.60	5.92E-03
521	-4.00	1.56E-05	2971	-8.00	4.56E-17	5384	4.50	1.48E-06
522	-5.70	4.66E-04	2974	-9.90	1.41E-11	5387	-4.40	5.52E-05
525	-5.30	8.50E-05	2976	-7.40	4.30E-05	5388	5.90	9.31E-04
							127	
529	-4.80	4.56E-05	2978	3.70	8.04E-05	5389	-5.50	7.69E-03
530	-8.00	1.02E-03	2980	-10.90	3.42E-06	5390	2.30	3.15E-04
531	7.70	2.39E-13	2996	3.40	1.38E-04	5397	5.00	9.06E-08
532	7.50	2.09E-14	2997	3.70	7.75E-06	5399	-9.40	3.85E-20
534	-8.50	5.04E-15	2998	-6.90	1.66E-08	5402	-3.40	1.52E-07
535	4.70	1.65E-05	3003	3.50	3.76E-03	5404	-2.50	2.50E-03
537	2.60	5.36E-04	3004	2.80	8.72E-05	5405	-3.60	5.03E-04
538	-6.50	3.19E-15	3006	6.20	2.14E-12	5412	-5.00	4.67E-07
539	-5.80	1.17E-09	3008	6.40	1.30E-06	5413	3.60	1.20E-04
540	-8.70	2.46E-22	3015	5.70	1.39E-06	5414	-5.20	1.75E-08
541	-6.30	5.76E-08	3021	4.40	5.11E-05	5417	6.50	3.87E-08
543	7.40	3.14E-10	3022	3.90	4.56E-04	5419	5.80	1.41E-10
545	-5.10	8.47E-04	3024	3.30	3.80E-04	5426	-4.50	9.44E-06
546	-3.60	1.59E-04	3026	-6.60	1.72E-12	5427	-4.60	7.30E-06
550	5.90	2.12E-05	3027	-11.80	1.39E-13	5429	8.20	2.10E-15
552	4.50	2.30E-06	3029	-7.10	3.08E-04	5430	-9.40	3.73E-05
553	-2.70	4.90E-03	3031	4.70	1.03E-03	5431	-7.00	5.48E-04
559	7.60	1.91E-19	3033	-9.80	2.90E-07	5432	11.10	9.40E-43
561	-10.40	2.84E-15	3034	6.90	2.60E-09	5435	2.80	1.90E-03
565	4.70	4.46E-07	3037	-6.20	5.88E-11	5439	-6.20	4.33E-05
569	-3.60	9.82E-05	3039	3.90	2.23E-04	5446	6.60	2.92E-13
570	-7.80	2.57E-18	3040	-3.00	6.03E-04	5448	9.30	3.12E-07
571	3.10	7.08E-04	3042	4.40	5.65E-05	5451	-4.40	3.78E-05
582	3.50	1.09E-04	3044	-8.50	6.59E-10	5453	-5.40	1.35E-03
583	-4.60	2.29E-07	3048	10.10	2.69E-21	5461	-5.50	1.86E-05
588	-7.60	6.98E-08	3050	-10.70	8.97E-20	5463	-4.40	5.06E-07
592	5.10	6.82E-09	3051	-3.30	1.33E-03	5465	3.80	7.58E-05
594	-5.90	1.08E-10	3053	4.40	6.48E-05	5466	-3.00	1.43E-03
595	-8.90	2.41E-15	3057	-4.70	1.01E-06	5470	-7.70	8.57E-15
607	-3.30	1.13E-03	3061	-6.60	2.75E-03	5473	-6.20	4.32E-11
614	-8.70	7.44E-20	3062	-7.00	5.30E-13	5477	7.00	2.22E-05
615	4.90	5.71E-09	3066	4.00	2.43E-05	5480	5.90	2.01E-08
617	-3.30	1.30E-03	3068	5.90	4.51E-10	5482	5.20	7.41E-03
620	7.30	6.79E-16	3069	7.10	1.73E-15	5483	-3.40	1.62E-04
629	11.30	2.73E-27	3072	11.30	5.88E-13	5489	-6.10	8.90E-12
636	4.70	1.64E-06	3075	2.60	6.91E-03	5491	5.70	5.69E-10
637	-4.00	2.90E-05	3076	3.00	3.53E-03	5493	-2.50	6.01E-03
644	8.80	3.96E-24	3077	5.40	1.92E-08	5494	-3.40	1.97E-04
647	3.60	4.02E-05	3079	-5.10	8.63E-06	5495	7.50	5.86E-08

649	6.20	7.48E-12	3083	-5.30	8.57E-05	5499	5.70	4.63E-09
650	2.90	1.56E-03	3084	-3.90	1.36E-04	5501	10.20	9.78E-31
652	6.90	1.42E-08	3089	-6.70	1.27E-13	5502	10.10	1.85E-30
655	2.60	5.80E-03	3092	5.70	5.12E-03	5503	-4.90	4.34E-03
657	-5.20	5.04E-08	3093	5.30	1.41E-03	5505	-13.80	6.08E-16
660	4.80	3.13E-03	3097	-5.10	4.72E-06	5509	8.10	1.07E-11
663	-5.90	5.57E-07	3100	-7.60	1.20E-09	5511	-3.20	1.55E-03
664	-5.60	8.31E-10	3102	7.70	1.97E-05	5512	-6.10	5.49E-07
668	-5.00	9.83E-08	3104	-3.80	6.83E-05	5513	-5.40	3.82E-08
672	4.20	3.22E-06	3108	-2.80	2.05E-03	5514	7.90	3.28E-06
678	3.20	2.72E-04	3112	2.40	8.37E-03	5520	4.20	8.86E-06
680	2.70	5.11E-03	3114	3.40	1.37E-03	5522	-8.00	3.02E-17
681	7.10	4.01E-15	3116	6.90	2.12E-08	5523	-6.90	3.10E-06
683	-4.20	1.07E-05	3118	-5.50	2.09E-07	5524	-3.30	1.90E-03
688	4.60	4.76E-07	3120	-5.80	1.64E-10	5526	3.90	1.62E-03
690	-11.50	3.28E-24	3122	4.60	1.91E-06	5527	7.20	2.00E-16
693	7.40	3.93E-07	3124	-7.40	5.95E-16	5529	-4.50	2.53E-07
696	-3.50	1.50E-04	3125	-8.00	4.73E-17	5535	3.00	7.94E-03
703	6.00	4.78E-09	3127	-4.20	8.23E-06	5536	-3.20	4.18E-04
708	12.90	8.84E-08	3129	7.20	4.63E-15	5538	-2.70	4.94E-03
714	2.70	5.04E-03	3131	3.70	3.74E-05	5539	-3.20	3.98E-03
718	-7.10	2.25E-12	3132	3.50	6.49E-05	5541	-4.80	1.17E-03
722	2.20	7.28E-03	3139	-3.50	9.66E-04	5546	-4.20	8.63E-06
724	-6.10	2.40E-08	3140	3.70	1.61E-04	5548	2.70	5.03E-03
							128	
730	-9.50	2.14E-18	3141	5.10	2.55E-07	5551	4.30	5.17E-05
736	5.70	1.63E-09	3142	5.50	3.82E-10	5552	-3.70	5.87E-05
746	-9.00	8.19E-07	3143	-8.00	3.58E-15	5553	4.30	2.58E-04
749	-5.00	1.12E-05	3144	-4.70	4.69E-07	5554	-5.00	4.93E-04
753	-3.80	2.99E-05	3145	-4.80	3.04E-07	5557	-4.20	8.78E-06
754	-3.10	7.79E-03	3149	4.10	1.56E-04	5558	-4.10	9.32E-06
757	-4.30	9.34E-07	3150	-3.80	2.54E-05	5563	-3.30	7.45E-05
760	-15.80	1.99E-10	3152	3.00	2.00E-03	5565	3.10	2.02E-03
761	6.10	1.99E-05	3153	-5.90	6.46E-10	5570	7.80	7.84E-23
762	9.70	1.66E-12	3154	7.10	1.99E-11	5571	6.60	4.95E-04
765	-6.60	5.72E-04	3158	-6.10	5.64E-11	5572	2.80	1.89E-03
766	5.50	1.78E-09	3159	2.70	3.48E-03	5574	-4.90	1.89E-07
767	-7.10	2.76E-04	3165	-9.60	1.82E-19	5576	5.00	9.31E-05
769	-8.50	1.09E-22	3166	-6.00	1.32E-11	5577	6.60	3.67E-04
770	-6.60	4.08E-04	3167	-10.10	1.38E-16	5578	6.40	1.30E-09
772	-3.80	2.38E-04	3168	3.60	5.03E-05	5580	-8.50	4.22E-21
774	-4.40	4.65E-03	3170	6.00	1.03E-06	5581	-3.40	4.45E-04
777	-4.60	7.08E-04	3172	-6.10	7.94E-04	5583	-10.90	9.49E-07
779	-12.40	2.98E-22	3176	7.70	2.57E-18	5588	4.20	2.80E-05
781	6.10	2.15E-08	3177	-4.80	5.17E-04	5590	6.00	3.83E-11
782	-4.30	1.71E-05	3178	-4.20	6.24E-06	5592	5.30	9.73E-09
784	-8.80	2.25E-09	3179	-6.10	2.22E-08	5593	-5.60	2.13E-06
785	5.20	5.04E-04	3181	-4.70	3.49E-05	5596	-5.60	4.69E-09
793	9.60	7.32E-16	3183	-6.20	1.15E-10	5597	-5.50	8.08E-09
794	8.70	4.50E-11	3184	7.00	1.74E-14	5599	-3.90	4.80E-03
795	6.20	2.77E-10	3188	-2.90	4.59E-03	5601	-4.00	4.74E-05
799	7.30	6.77E-05	3189	-5.80	2.84E-10	5602	-5.70	2.15E-10
801	-11.00	1.14E-11	3190	6.40	2.18E-08	5605	-10.40	3.85E-12
808	-6.50	1.27E-10	3193	6.40	2.46E-04	5606	-9.70	1.04E-10
811	11.40	1.55E-09	3194	6.40	3.38E-04	5608	-11.10	4.05E-34
812	8.90	4.89E-17	3196	-5.10	1.53E-05	5614	-7.20	1.90E-06
818	6.60	2.74E-04	3197	-7.90	1.48E-05	5617	-3.10	2.09E-03
822	-7.50	1.98E-03	3198	-3.20	4.19E-04	5619	6.30	1.17E-10

826	-5.40	2.69E-03	3199	-4.10	1.88E-04	5623	7.60	7.35E-12
827	2.90	1.89E-03	3201	-3.80	2.20E-04	5624	-4.60	2.03E-05
829	8.30	8.25E-15	3205	-7.00	1.70E-05	5627	3.70	9.85E-05
837	-4.60	7.20E-05	3206	6.10	1.28E-03	5630	5.30	7.98E-06
838	-3.70	2.99E-05	3210	3.90	5.99E-06	5637	6.40	6.48E-08
839	-3.50	8.08E-05	3213	-7.50	1.92E-05	5638	8.90	7.38E-15
840	-10.40	1.13E-14	3218	-9.70	2.05E-20	5639	-5.20	9.81E-09
842	-6.00	7.41E-10	3220	5.30	4.39E-08	5647	-3.40	1.48E-03
844	6.50	1.15E-11	3227	-5.50	1.54E-04	5658	8.20	4.90E-06
846	-12.20	7.64E-26	3235	-5.20	5.74E-07	5660	4.60	3.95E-07
847	2.80	5.75E-03	3239	-4.20	1.47E-03	5664	-7.30	8.01E-05
849	3.80	1.23E-04	3240	-4.20	1.39E-03	5667	3.50	1.61E-03
854	-4.90	2.47E-06	3241	-10.10	6.70E-16	5668	-8.90	1.02E-17
858	-6.70	2.87E-13	3245	4.40	6.23E-06	5674	-13.00	3.97E-30
860	4.70	1.08E-04	3248	-8.90	4.27E-08	5677	6.70	8.78E-13
864	6.30	9.36E-12	3254	-4.70	9.89E-05	5679	-4.00	9.31E-05
865	7.40	4.92E-09	3257	3.10	1.78E-03	5682	4.90	7.70E-08
867	-3.00	2.01E-03	3258	5.10	4.46E-08	5684	6.20	1.46E-04
868	-7.30	7.57E-11	3263	5.90	1.91E-10	5688	-7.30	2.46E-08
870	8.20	3.81E-18	3266	3.30	1.32E-04	5691	6.20	3.15E-09
871	-3.00	2.25E-03	3272	7.10	1.43E-06	5695	7.70	4.43E-07
875	-3.50	9.17E-03	3275	-4.40	1.55E-04	5701	6.70	5.11E-07
876	-4.20	1.41E-06	3276	-2.90	6.04E-04	5703	8.90	1.78E-24
879	-5.10	1.34E-06	3277	-2.90	7.71E-04	5704	8.60	3.70E-23
882	-7.10	2.04E-12	3278	-3.00	5.32E-03	5705	5.30	9.34E-10
886	4.50	2.41E-05	3280	-2.70	1.74E-03	5707	-4.60	1.98E-05
888	-5.30	1.13E-05	3281	-6.50	4.15E-06	5708	-11.60	1.35E-11
890	-4.80	4.10E-08	3283	-4.40	9.92E-04	5710	4.70	1.12E-04
898	-4.10	4.16E-04	3286	4.10	3.82E-06	5711	-6.90	1.91E-11
900	5.20	2.20E-09	3289	-5.10	1.06E-03	5712	-6.60	2.65E-07
							129	
901	-7.80	2.19E-18	3291	4.10	8.97E-03	5713	6.80	1.48E-14
905	4.70	3.49E-07	3292	-3.60	6.57E-04	5715	-8.90	4.42E-08
906	11.30	2.97E-08	3299	3.80	2.85E-03	5737	-5.50	9.45E-06
910	-7.60	2.79E-03	3306	-4.20	5.43E-03	5739	2.70	2.04E-04
913	-4.00	2.08E-04	3310	3.50	1.07E-04	5741	-8.20	2.55E-22
915	4.10	2.73E-04	3312	-4.80	2.95E-06	5742	-8.30	8.12E-23
919	11.10	3.34E-11	3313	-5.00	1.66E-06	5743	-3.90	5.45E-03
928	6.70	1.34E-14	3317	7.60	1.42E-18	5746	3.20	3.74E-04
934	-5.30	4.12E-09	3321	4.00	5.51E-06	5748	-6.00	2.57E-03
937	-6.50	1.81E-03	3322	-10.00	2.93E-21	5753	-9.40	7.71E-09
939	7.30	2.53E-12	3325	-5.70	5.14E-03	5754	-8.70	1.02E-24
944	-4.60	5.59E-04	3327	-7.00	1.12E-06	5755	-5.50	7.22E-04
945	2.50	5.64E-03	3334	-5.00	2.12E-04	5756	9.60	1.05E-17
948	3.50	1.25E-03	3341	-8.60	1.54E-12	5758	4.00	8.82E-03
949	-13.10	1.84E-44	3343	-2.80	1.36E-04	5761	3.50	1.45E-04
951	-4.30	7.35E-04	3344	-2.50	7.22E-03	5762	3.60	6.76E-05
954	9.30	5.07E-24	3349	5.90	6.29E-04	5763	8.50	5.48E-06
957	4.10	5.47E-04	3350	5.90	6.40E-04	5768	-5.70	3.93E-08
958	4.20	4.59E-04	3352	6.20	1.65E-04	5772	5.60	2.83E-03
960	-4.10	6.30E-06	3353	6.40	1.81E-11	5774	-9.00	1.35E-04
961	5.80	6.51E-03	3356	4.80	3.14E-03	5775	2.60	3.62E-03
962	6.90	1.53E-09	3357	-2.90	2.91E-03	5777	7.90	9.05E-07
963	-10.00	1.59E-09	3359	-4.10	3.17E-05	5781	3.50	1.72E-03
964	8.90	3.87E-15	3367	3.80	5.01E-04	5784	-5.40	1.37E-06
972	5.40	3.82E-04	3371	11.10	1.62E-38	5785	-14.70	6.02E-20
974	-4.00	1.30E-05	3379	-9.50	1.03E-06	5787	3.20	5.93E-04
975	3.40	1.51E-04	3385	2.80	1.70E-03	5788	-10.10	2.98E-17

979	10.20	1.37E-30	3390	8.10	1.11E-07	5791	-5.20	4.03E-09
982	4.20	7.48E-05	3391	4.30	1.42E-07	5796	-3.40	2.54E-04
983	-6.00	1.16E-04	3392	9.20	2.44E-14	5798	-7.50	3.88E-13
984	7.70	2.31E-15	3394	4.60	9.37E-05	5800	-6.20	3.11E-13
989	4.90	3.90E-06	3395	9.40	2.55E-13	5803	-7.70	1.26E-05
993	3.10	3.48E-04	3396	-8.40	4.32E-14	5804	-5.20	7.35E-04
994	-8.30	5.80E-20	3407	4.00	5.71E-06	5806	-9.40	1.93E-10
998	4.30	4.86E-06	3408	-2.90	2.97E-03	5808	4.50	3.42E-03
1003	7.20	5.23E-09	3409	-2.60	6.22E-03	5809	-7.50	3.30E-05
1004	-4.30	2.78E-04	3417	4.80	4.86E-08	5815	-5.50	9.67E-05
1006	-9.50	4.21E-08	3420	8.90	1.30E-20	5816	-13.50	2.34E-12
1009	-7.40	3.07E-15	3423	6.70	2.52E-12	5819	-7.10	3.88E-09
1010	-5.20	1.51E-06	3428	-2.90	7.05E-04	5821	-7.50	4.45E-16
1012	4.30	4.07E-05	3431	8.90	1.38E-04	5823	-13.40	6.50E-13
1015	-4.80	1.27E-07	3432	8.80	1.45E-04	5824	-13.50	2.17E-13
1016	-8.00	5.63E-17	3436	5.30	1.67E-06	5825	-9.70	5.96E-14
1021	6.50	3.65E-10	3438	-4.00	4.08E-10	5828	-5.30	7.63E-05
1031	-4.90	1.90E-04	3439	-7.20	2.08E-08	5830	-8.60	4.34E-04
1033	7.70	7.56E-18	3441	6.50	6.19E-05	5838	-11.70	5.64E-42
1035	-5.20	7.01E-07	3442	-3.90	8.77E-03	5839	-5.10	9.95E-03
1037	-7.90	2.83E-10	3444	-6.10	2.58E-04	5840	4.40	7.21E-07
1038	-6.40	3.02E-13	3448	5.20	1.63E-06	5841	3.40	3.19E-04
1042	6.70	8.74E-13	3450	-6.70	5.64E-03	5846	5.90	3.92E-08
1044	4.60	1.33E-03	3457	-9.10	1.28E-10	5852	-6.80	1.15E-05
1045	-6.90	3.37E-08	3460	-5.10	4.33E-03	5856	9.00	1.54E-25
1046	-4.60	6.24E-03	3466	2.70	1.86E-03	5865	4.00	1.04E-03
1049	-2.60	6.25E-03	3467	6.70	3.73E-15	5866	-4.90	1.99E-04
1056	4.40	6.62E-07	3468	3.30	1.66E-04	5868	6.80	2.97E-14
1057	4.30	8.83E-07	3471	-5.70	1.89E-03	5870	3.50	4.02E-05
1063	4.90	1.10E-07	3479	-5.30	5.63E-04	5871	4.60	3.99E-05
1065	-3.70	1.12E-04	3480	-3.60	3.86E-03	5872	5.60	1.95E-06
1068	-6.50	7.70E-05	3482	-3.40	4.17E-04	5874	3.70	2.40E-05
1069	-6.50	6.43E-05	3483	7.30	1.41E-06	5875	-9.40	6.03E-19
1072	6.00	4.62E-10	3485	-13.80	1.94E-42	5876	-4.60	8.55E-06
1074	5.00	8.70E-05	3489	6.00	1.56E-10	5877	7.30	8.26E-15
1075	-7.50	1.06E-07	3490	5.90	2.03E-09	5880	3.80	2.15E-04
							130	
1078	4.00	4.30E-03	3491	11.10	1.12E-37	5883	-4.40	7.20E-04
1084	6.20	3.95E-09	3492	5.60	1.35E-08	5884	-7.90	7.50E-17
1087	4.90	2.97E-08	3493	-3.10	3.79E-03	5887	-12.90	6.27E-16
1089	-3.70	5.25E-05	3498	4.20	1.05E-05	5890	-8.90	1.26E-19
1094	6.40	8.68E-11	3499	2.50	9.14E-03	5896	3.70	5.28E-05
1097	-3.10	3.94E-04	3502	-7.80	2.63E-03	5897	-6.90	2.44E-14
1098	-4.90	2.76E-07	3503	-5.30	2.90E-04	5898	-4.30	4.35E-03
1100	-5.80	5.46E-08	3506	-7.80	4.07E-09	5900	-10.50	2.50E-07
1104	2.90	9.30E-03	3510	-3.10	2.36E-03	5901	-5.90	1.73E-09
1110	-7.40	1.65E-16	3511	5.40	6.79E-06	5902	3.90	3.89E-05
1121	-5.50	6.03E-07	3514	-9.30	5.32E-20	5903	8.00	7.70E-06
1128	-4.10	6.03E-04	3515	6.50	3.80E-04	5904	5.30	1.58E-10
1129	-4.20	3.82E-04	3518	-11.90	5.87E-06	5906	8.40	6.31E-20
1130	-6.40	6.45E-03	3519	-3.40	5.03E-04	5908	4.70	6.11E-04
1138	-3.40	3.59E-03	3523	7.10	4.04E-15	5910	-6.70	6.02E-07
1140	6.40	7.01E-13	3527	5.90	8.77E-07	5914	9.80	3.48E-23
1141	2.80	8.39E-03	3531	-2.50	8.99E-03	5916	4.70	4.54E-05
1142	-3.20	2.70E-03	3533	-4.60	2.85E-04	5917	4.80	1.12E-05
1145	4.90	1.58E-07	3538	-3.70	3.25E-04	5918	-4.70	6.50E-04
1147	3.30	9.55E-04	3539	5.60	4.01E-09	5921	-7.00	3.27E-08
1148	5.60	8.32E-10	3540	-4.70	6.49E-08	5922	-6.80	4.73E-07

1151	3.80	7.40E-05	3541	3.80	6.38E-05	5923	7.50	8.39E-15
1152	8.30	3.75E-10	3544	-3.70	6.27E-03	5924	-5.90	1.56E-09
1154	-5.80	6.83E-06	3546	-5.70	3.10E-05	5925	-4.60	1.16E-05
1157	-2.40	6.86E-03	3548	-11.80	3.34E-10	5927	4.20	9.13E-06
1158	4.10	1.87E-05	3550	3.90	6.46E-05	5929	-5.10	1.16E-05
1160	2.70	4.97E-03	3554	4.20	7.47E-11	5930	-10.00	1.07E-21
1161	6.20	5.97E-12	3557	-6.60	2.45E-03	5931	5.20	1.28E-06
1162	3.70	3.03E-06	3558	-5.70	4.59E-09	5942	5.00	1.86E-05
1163	6.80	2.42E-05	3559	-6.10	3.64E-03	5946	-3.10	5.50E-03
1164	4.70	2.03E-05	3561	-4.40	4.05E-04	5948	-4.40	6.67E-08
1165	3.60	7.89E-04	3563	-6.90	3.57E-06	5952	-5.10	5.29E-08
1167	6.10	2.32E-11	3568	4.50	1.50E-07	5953	-5.40	2.24E-08
1170	-6.20	4.00E-16	3569	3.80	2.14E-05	5955	7.20	4.54E-10
1171	6.60	1.89E-12	3575	-10.50	3.22E-06	5956	-6.50	2.74E-03
1172	-5.00	7.67E-08	3579	5.90	4.53E-15	5957	-5.60	1.04E-05
1178	2.00	6.83E-03	3580	-5.30	2.93E-04	5958	3.30	1.81E-03
1179	-4.00	1.44E-03	3587	3.00	5.28E-03	5966	7.40	6.39E-19
1182	4.00	4.55E-05	3588	-2.70	7.11E-03	5968	-7.50	3.00E-19
1183	6.80	2.21E-13	3591	10.50	6.49E-07	5970	5.70	7.15E-11
1185	5.10	1.36E-07	3592	5.00	9.15E-07	5971	11.10	1.19E-37
1186	4.10	1.66E-06	3593	-8.80	6.57E-19	5972	5.50	1.92E-09
1187	4.10	4.53E-06	3594	8.80	7.61E-16	5973	3.90	2.01E-05
1188	4.20	2.76E-06	3595	-6.20	2.34E-03	5979	8.00	4.98E-11
1189	-3.10	7.44E-03	3596	-4.60	1.76E-06	5982	2.80	2.53E-03
1195	7.20	2.88E-15	3601	-7.20	2.76E-11	5986	5.10	1.65E-07
1201	-3.60	1.25E-04	3602	5.20	1.38E-04	5989	3.00	4.28E-06
1202	5.10	2.05E-03	3604	2.80	4.31E-03	5990	-3.10	2.30E-03
1210	-3.00	9.34E-04	3606	4.30	9.22E-07	5992	-6.00	3.45E-17
1212	3.80	9.46E-03	3609	-6.50	1.40E-03	5993	-6.60	5.80E-07
1213	5.20	1.48E-08	3613	5.60	7.42E-10	5994	5.30	4.08E-08
1214	5.60	1.72E-08	3614	-3.20	6.35E-03	5995	5.30	2.95E-08
1218	-5.50	2.49E-03	3615	4.50	7.38E-07	5996	5.10	8.23E-08
1222	-4.10	4.67E-06	3617	10.00	2.35E-07	5997	5.10	8.36E-08
1226	-5.90	4.47E-08	3618	10.50	1.15E-27	5998	-7.50	2.97E-16
1229	-6.60	1.30E-12	3619	-5.70	1.80E-09	6006	-5.00	5.96E-06
1230	6.60	5.58E-05	3622	-6.00	3.35E-03	6013	-5.80	1.25E-03
1231	3.10	7.41E-03	3625	5.80	7.74E-20	6015	-6.40	6.14E-12
1237	-6.00	3.47E-08	3627	-4.50	2.51E-03	6016	-5.80	5.03E-10
1238	3.40	2.73E-05	3631	-7.10	6.15E-14	6017	-5.40	2.78E-03
1239	-8.80	7.85E-17	3633	6.10	5.03E-04	6024	-4.00	1.41E-04
1241	6.90	4.87E-05	3636	-7.10	1.19E-11	6025	-12.00	3.22E-06
1242	2.70	5.46E-03	3637	-3.40	9.86E-03	6031	7.20	9.28E-17
							131	
1243	2.70	4.67E-03	3647	-4.50	2.30E-05	6033	-6.60	4.67E-07
1244	11.10	7.02E-39	3649	3.60	9.31E-05	6036	-11.00	6.29E-20
1251	8.30	2.45E-13	3652	-14.30	5.13E-09	6037	-3.30	6.44E-04
1252	-9.40	3.07E-18	3653	3.30	2.85E-04	6041	-2.00	7.72E-03
1255	3.70	1.69E-06	3655	-3.60	2.65E-03	6045	-5.50	7.29E-05
1256	6.30	6.12E-10	3661	-7.00	1.83E-13	6046	5.90	6.20E-06
1260	2.60	3.71E-03	3667	3.00	3.53E-03	6050	-2.80	5.88E-05
1263	-4.90	1.84E-04	3668	7.40	2.12E-16	6052	-5.00	1.36E-06
1265	8.30	3.63E-13	3669	4.10	7.45E-06	6057	-4.30	6.04E-04
1266	-6.30	6.59E-11	3673	5.60	2.91E-05	6061	-6.90	3.50E-06
1267	4.10	2.18E-06	3683	-3.30	7.15E-04	6067	3.00	9.95E-04
1268	-6.40	1.32E-04	3684	4.00	6.58E-06	6068	6.10	1.86E-12
1270	-4.30	1.10E-04	3687	-6.60	8.51E-03	6069	-3.80	2.78E-08
1272	-8.90	2.24E-08	3690	2.60	3.78E-03	6070	-3.60	3.56E-03
1274	2.70	9.59E-03	3693	-2.90	3.29E-03	6071	3.10	3.28E-04

1276	-6.70	6.72E-09	3695	-7.00	3.37E-05	6074	-3.30	4.27E-05
1277	-5.70	2.14E-03	3696	-5.20	3.15E-05	6075	-3.40	1.24E-07
1278	-4.90	1.98E-07	3697	-2.70	2.63E-03	6081	4.30	1.72E-05
1281	5.70	3.20E-08	3699	-3.10	4.77E-03	6086	-10.30	5.35E-20
1283	4.90	5.50E-06	3700	8.90	8.47E-18	6087	-6.20	7.24E-11
1287	-13.20	1.01E-38	3704	4.70	1.75E-05	6088	-6.20	7.98E-11
1291	5.50	2.02E-09	3705	3.60	2.94E-03	6089	-4.60	1.25E-06
1294	6.00	1.57E-13	3706	-5.70	2.46E-08	6092	-4.90	1.98E-04
1295	4.90	9.26E-06	3708	8.30	1.93E-20	6093	-4.40	4.80E-04
1297	-7.80	1.63E-06	3709	-6.80	3.22E-07	6095	7.20	3.66E-03
1299	-5.20	1.85E-04	3713	6.10	7.33E-08	6100	5.20	1.47E-04
1301	-2.80	2.42E-03	3714	-3.00	3.10E-06	6101	5.20	1.45E-04
1303	2.40	1.85E-04	3719	-3.20	8.05E-03	6102	-6.80	2.43E-13
1305	4.20	1.41E-06	3722	8.00	6.55E-19	6103	-7.60	1.43E-12
1306	-9.40	2.64E-17	3723	-7.40	1.09E-04	6104	-3.70	2.93E-05
1307	-9.00	1.49E-10	3726	4.40	7.74E-07	6105	7.70	4.36E-17
1308	-5.50	2.13E-05	3727	-7.40	1.93E-13	6111	-6.50	1.24E-09
1311	4.10	3.89E-03	3728	3.90	3.80E-05	6112	-4.40	1.21E-05
1313	-8.50	1.35E-04	3729	-9.30	6.88E-20	6117	-8.00	2.72E-17
1320	-5.60	2.20E-08	3730	3.90	1.39E-07	6118	4.90	8.19E-08
1327	-3.70	4.26E-05	3731	2.60	4.47E-03	6124	4.60	8.24E-06
1329	-3.40	4.73E-04	3734	3.90	2.56E-05	6130	-4.40	2.84E-06
1332	7.10	3.75E-08	3735	-6.70	6.81E-06	6131	1.90	6.12E-03
1333	4.40	3.35E-03	3736	4.70	5.60E-04	6134	-7.10	8.09E-14
1339	-4.40	1.03E-05	3740	-7.30	2.60E-13	6135	-7.00	2.01E-05
1340	5.90	2.36E-04	3742	-9.20	1.41E-15	6136	-6.40	1.12E-10
1346	-8.00	2.38E-17	3745	4.70	4.12E-07	6137	-6.30	1.70E-10
1348	-4.20	2.75E-03	3749	-10.00	2.61E-24	6141	3.20	4.72E-04
1349	-3.00	8.11E-04	3750	-4.00	2.44E-05	6142	-5.00	3.04E-07
1350	-4.70	6.02E-05	3751	-4.80	8.51E-04	6143	-6.20	1.31E-10
1351	-3.40	1.13E-03	3752	-5.30	5.40E-09	6145	-3.10	1.23E-03
1354	-8.40	3.48E-11	3753	-7.10	3.07E-11	6148	-7.70	2.45E-04
1359	5.30	1.08E-03	3757	4.60	5.81E-05	6152	8.50	1.54E-20
1360	4.30	3.52E-04	3759	-10.00	2.69E-20	6154	-2.80	1.30E-05
1364	8.70	8.65E-26	3760	10.90	2.01E-39	6158	-5.10	1.01E-08
1366	2.80	2.48E-03	3761	2.40	9.24E-03	6169	-5.30	4.72E-04
1370	-14.90	9.33E-12	3762	-6.30	2.90E-04	6170	4.60	4.43E-04
1373	5.00	1.30E-04	3763	7.40	2.19E-08	6172	3.20	6.09E-04
1378	-4.40	4.69E-03	3768	-7.90	5.55E-05	6177	4.00	1.54E-05
1380	-15.40	1.34E-21	3770	4.20	2.77E-06	6181	4.70	4.66E-07
1385	-8.00	5.11E-17	3771	-4.60	7.81E-05	6183	-4.80	1.02E-03
1389	4.50	8.95E-04	3772	-11.00	1.03E-16	6186	5.90	3.54E-08
1390	-14.10	7.03E-16	3776	-5.40	1.82E-08	6187	4.30	8.13E-05
1391	-3.80	2.64E-05	3777	-5.60	2.59E-03	6192	-3.00	6.92E-03
1392	-3.60	3.52E-03	3779	3.20	2.81E-04	6195	-5.50	1.26E-08
1393	-7.20	3.45E-17	3780	7.40	7.08E-19	6197	5.70	1.68E-07
1395	3.20	2.53E-04	3787	5.30	8.75E-03	6198	5.70	2.05E-07
1396	-6.00	2.47E-10	3788	-7.60	1.90E-14	6200	4.90	9.98E-06
							132	
1397	5.60	1.58E-09	3789	-9.20	5.13E-08	6201	-3.40	2.57E-04
1400	-5.20	4.73E-04	3792	-5.80	1.72E-06	6204	-13.80	6.14E-23
1401	-8.30	1.14E-20	3793	-6.30	1.90E-11	6206	4.40	8.45E-03
1402	-3.70	2.20E-04	3796	-13.00	5.75E-24	6214	7.60	5.81E-16
1404	3.80	1.11E-04	3797	-12.80	1.19E-25	6219	7.30	5.73E-13
1406	-8.60	2.62E-18	3798	-6.20	1.05E-06	6221	6.60	1.47E-09
1409	4.30	1.01E-09	3801	3.30	4.07E-04	6225	3.30	2.00E-04
1410	-5.40	1.32E-08	3805	3.80	7.46E-05	6229	-5.10	8.21E-13
1411	2.90	7.79E-03	3808	-6.90	3.45E-14	6230	7.40	1.43E-16

1415	-6.30	2.51E-12	3810	-3.80	7.69E-05	6232	-3.70	7.62E-06
1424	6.20	2.14E-09	3812	-5.40	2.10E-09	6235	-8.40	7.34E-05
1429	-8.10	7.24E-20	3817	-2.40	8.04E-03	6240	-4.40	1.46E-05
1431	4.20	3.65E-06	3818	-3.80	3.34E-03	6241	3.70	3.42E-06
1433	5.50	4.63E-10	3821	7.60	1.34E-04	6242	-4.60	9.90E-04
1434	4.70	5.56E-09	3834	-3.00	3.52E-03	6243	2.60	7.67E-03
1436	-5.30	2.86E-05	3844	-3.70	3.19E-03	6245	12.20	1.65E-43
1439	8.20	1.08E-18	3847	-3.30	4.96E-04	6246	-4.70	1.28E-04
1443	5.60	3.04E-10	3859	-9.10	2.25E-25	6248	-6.30	3.93E-04
1444	5.50	3.66E-10	3862	6.10	1.51E-11	6249	9.90	1.17E-28
1445	-5.40	5.27E-03	3864	-4.10	2.38E-06	6250	-9.30	2.80E-24
1451	9.30	1.07E-11	3865	-5.20	7.65E-08	6253	-6.60	4.53E-13
1455	7.00	8.53E-06	3866	2.90	1.00E-03	6257	-7.30	4.38E-05
1456	-2.60	4.10E-03	3873	-2.90	9.77E-03	6258	-10.50	1.18E-18
1464	7.00	3.05E-17	3876	-3.60	5.20E-04	6261	4.30	4.92E-10
1465	-4.80	1.34E-06	3878	-10.10	1.65E-28	6263	-4.90	1.59E-06
1467	3.90	7.22E-05	3879	-5.40	2.21E-06	6265	-3.10	1.86E-03
1468	5.50	3.71E-10	3880	-3.80	6.68E-04	6266	-8.70	1.58E-06
1472	-6.10	1.18E-10	3883	3.00	1.14E-03	6267	-13.30	1.40E-18
1475	-6.70	1.03E-14	3884	-8.70	1.07E-22	6271	-9.40	3.85E-06
1478	2.80	5.10E-03	3886	9.40	4.97E-22	6272	-4.10	7.14E-06
1479	3.10	5.98E-03	3887	-4.30	7.19E-05	6284	4.40	3.05E-06
1480	-4.70	1.12E-03	3891	-2.60	8.59E-03	6285	7.30	2.05E-19
1484	5.60	2.43E-03	3892	-5.80	1.74E-09	6286	-7.00	3.68E-05
1491	6.90	1.75E-12	3895	-4.10	1.11E-05	6292	-6.00	2.40E-03
1498	-6.30	1.97E-11	3900	-3.30	1.83E-04	6294	-6.30	2.45E-11
1501	-3.70	1.50E-03	3902	-8.90	4.82E-16	6297	6.90	7.31E-11
1503	-3.90	1.43E-05	3904	-6.10	1.20E-11	6301	6.60	8.35E-03
1505	8.10	4.67E-10	3910	3.30	5.74E-05	6303	10.00	8.01E-30
1506	-6.20	1.94E-08	3914	-12.20	4.88E-41	6304	10.20	5.37E-31
1507	10.40	1.20E-13	3915	2.30	1.05E-03	6305	4.60	2.66E-04
1512	-8.70	5.63E-04	3916	2.90	8.04E-04	6307	-4.20	3.53E-05
1522	-3.20	3.30E-03	3917	4.10	2.83E-05	6310	11.30	8.85E-41
1524	4.20	1.03E-05	3918	-5.50	3.64E-06	6315	3.50	2.35E-04
1525	5.50	1.50E-04	3919	5.50	1.42E-03	6318	-3.00	2.33E-03
1527	-4.10	1.37E-05	3922	-5.90	7.94E-12	6321	6.70	3.89E-09
1529	-2.90	8.94E-03	3924	2.90	1.70E-05	6325	4.40	1.78E-05
1530	-9.20	4.09E-22	3926	5.00	1.34E-08	6328	-5.90	5.08E-10
1533	2.50	4.80E-03	3927	-5.20	3.39E-08	6329	-3.30	8.86E-04
1535	-4.90	9.64E-03	3928	-4.10	2.61E-05	6330	-6.70	4.23E-09
1537	3.40	1.07E-03	3929	5.00	2.22E-08	6332	5.10	5.38E-03
1541	2.60	6.43E-03	3930	-8.80	4.88E-09	6333	5.50	8.36E-09
1544	5.40	5.18E-06	3933	-2.80	1.75E-03	6337	-10.70	1.59E-28
1548	-7.60	4.34E-19	3937	-5.10	8.02E-09	6340	-8.00	5.47E-10
1552	4.70	1.38E-07	3938	8.80	6.20E-12	6345	4.10	5.39E-06
1554	5.10	2.57E-04	3940	7.20	2.09E-16	6348	3.20	4.40E-04
1558	7.90	2.28E-17	3944	1.80	5.74E-03	6349	-3.60	9.08E-05
1560	3.50	1.41E-04	3945	-5.60	9.79E-04	6351	-3.00	1.03E-03
1561	-4.10	7.58E-05	3946	8.90	1.83E-22	6352	-11.30	1.90E-10
1566	-2.90	1.38E-03	3947	-5.60	1.28E-09	6358	6.70	6.97E-13
1571	-6.60	2.74E-11	3957	-5.40	6.52E-06	6359	-5.90	9.06E-07
1572	-6.00	1.85E-04	3959	8.20	1.11E-08	6360	-9.10	8.91E-06
1573	6.60	6.58E-13	3961	4.80	1.41E-06	6365	-4.60	2.81E-07
1574	5.50	1.12E-04	3968	-7.90	8.77E-06	6366	-5.10	5.27E-06
							133	
1575	-6.30	1.33E-11	3972	10.50	1.04E-22	6371	4.40	7.83E-03
1577	4.20	2.28E-04	3983	4.30	9.56E-07	6372	2.80	1.42E-03
1579	-2.90	8.29E-03	4001	5.90	1.08E-04	6373	9.70	3.97E-28

1580	5.60	1.77E-10	4009	5.10	1.97E-08	6374	4.00	1.35E-03
1581	4.50	3.39E-04	4011	8.60	1.96E-18	6375	5.90	7.35E-09
1583	-6.00	1.41E-04	4014	-3.90	1.51E-05	6376	7.40	1.26E-15
1587	-11.50	1.22E-08	4015	4.30	6.01E-06	6377	8.50	1.84E-09
1588	-5.40	3.84E-08	4017	-5.50	5.00E-08	6379	-3.30	5.14E-03
1596	-5.70	7.43E-11	4021	8.00	1.43E-07	6381	-8.90	9.11E-25
1599	9.70	2.31E-23	4022	-6.20	1.86E-07	6382	-2.70	4.24E-03
1601	-3.50	1.29E-03	4023	-5.90	1.37E-03	6385	-2.80	7.16E-04
1604	-5.60	7.18E-07	4025	9.30	2.58E-28	6394	4.60	7.04E-07
1607	-5.00	1.33E-04	4027	6.20	8.13E-12	6397	-7.00	6.08E-08
1612	5.80	8.73E-11	4028	-8.80	7.72E-08	6398	-9.90	1.48E-17
1614	6.60	1.80E-11	4030	-4.20	3.85E-06	6400	-2.80	2.76E-03
1616	7.90	2.83E-18	4031	-10.30	1.29E-07	6402	-5.30	8.28E-05
1618	5.50	1.60E-08	4032	5.70	5.50E-10	6405	-2.60	8.27E-03
1620	-5.00	4.41E-08	4041	-4.40	4.17E-04	6408	7.50	2.44E-15
1621	-2.90	7.86E-04	4043	2.40	3.68E-03	6411	-7.30	1.51E-15
1622	2.80	4.37E-03	4044	-8.20	1.77E-12	6412	2.70	3.44E-03
1623	7.90	1.87E-20	4045	6.20	2.01E-10	6415	-9.70	2.09E-23
1625	10.10	1.79E-31	4049	3.00	9.14E-03	6416	7.70	1.30E-16
1628	-4.30	5.33E-05	4050	3.80	1.95E-05	6417	6.20	2.88E-10
1629	-4.30	5.53E-05	4051	-7.90	5.67E-21	6419	-5.30	4.30E-04
1630	-6.40	1.24E-10	4052	-9.10	1.36E-22	6420	-6.20	4.79E-12
1634	3.30	1.70E-03	4053	5.20	2.65E-07	6423	1.80	6.86E-03
1635	-5.80	3.80E-11	4056	7.30	3.06E-17	6431	-10.60	9.52E-06
1636	-9.90	8.00E-08	4059	-3.70	7.18E-05	6434	7.20	2.20E-15
1637	6.10	7.31E-11	4060	4.20	2.49E-06	6436	7.00	2.09E-14
1640	-7.90	4.60E-12	4061	4.20	3.31E-06	6437	3.80	1.26E-03
1642	7.80	5.21E-15	4065	-5.20	8.33E-03	6438	5.30	9.22E-11
1643	6.20	1.84E-08	4068	7.30	2.16E-04	6439	-2.40	9.28E-03
1644	-10.90	8.05E-14	4070	-6.20	1.35E-11	6440	3.70	3.79E-05
1650	-5.20	9.65E-07	4075	-5.40	5.03E-09	6441	6.40	7.81E-03
1652	4.00	1.01E-04	4076	-8.20	3.54E-07	6451	-3.70	1.51E-04
1653	9.60	1.66E-29	4077	-3.60	1.30E-04	6452	-5.50	6.47E-07
1662	-7.50	1.32E-05	4079	4.40	5.87E-04	6455	2.80	4.54E-03
1663	-7.90	3.00E-08	4081	3.00	5.97E-04	6459	4.30	2.02E-06
1664	-2.30	5.18E-03	4084	10.10	9.72E-18	6461	-9.70	2.01E-18
1669	2.80	1.64E-03	4088	-7.90	1.65E-16	6463	-4.30	1.38E-06
1677	8.80	1.22E-20	4090	-2.70	4.72E-03	6464	-5.20	7.98E-08
1681	8.20	1.50E-17	4091	-8.70	1.09E-04	6468	-5.30	7.09E-04
1684	6.40	1.49E-09	4096	4.70	4.17E-05	6469	2.80	6.61E-03
1686	7.80	6.32E-19	4097	-7.50	2.30E-16	6471	4.10	4.62E-03
1691	2.90	1.62E-03	4098	-4.70	9.84E-07	6473	-5.60	1.63E-05
1696	-11.70	5.79E-08	4099	-3.00	1.15E-03	6476	-7.00	4.63E-05
1699	5.90	1.01E-03	4100	5.20	4.82E-08	6477	7.70	1.03E-06
1702	4.20	1.53E-03	4106	-4.40	1.76E-06	6479	-2.60	4.41E-03
1705	-5.30	2.57E-03	4115	4.80	3.34E-07	6480	-3.10	9.85E-03
1710	-7.10	7.59E-15	4120	-7.70	9.27E-12	6485	-8.90	2.40E-12
1711	3.10	9.13E-03	4121	-7.80	4.38E-11	6487	3.80	3.02E-05
1717	-3.90	2.72E-03	4126	-5.20	1.02E-03	6493	-10.40	2.98E-05
1718	2.70	3.57E-03	4130	-4.00	1.27E-05	6498	-6.10	7.38E-12
1722	2.70	2.52E-03	4131	-7.70	1.30E-03	6499	-6.50	1.44E-03
1724	-2.40	8.91E-03	4133	2.00	6.49E-03	6505	-6.90	8.77E-13
1730	6.90	3.36E-14	4134	-8.50	4.29E-19	6509	-4.30	1.73E-06
1731	-8.40	5.44E-20	4135	-3.30	6.13E-03	6515	8.30	1.01E-08
1737	4.60	6.59E-05	4137	5.10	1.37E-04	6523	-7.30	5.59E-23
1740	-5.80	9.32E-09	4155	8.90	2.78E-20	6530	-5.30	1.88E-09
1741	6.50	2.36E-11	4156	4.10	7.79E-06	6531	4.50	1.21E-04
1743	-13.60	8.91E-13	4159	6.50	7.55E-10	6533	-2.80	1.45E-03

1744	7.10	1.13E-09	4162	-5.80	1.29E-06	6534	-4.00	4.71E-03
1745	7.20	3.01E-10	4163	-5.60	9.00E-05	6535	-6.00	7.70E-12
							134	
1751	9.20	8.27E-25	4164	2.50	5.65E-03	6540	-8.40	1.53E-17
1752	10.30	1.25E-27	4165	-9.00	1.10E-18	6544	5.90	2.81E-12
1753	6.20	7.32E-03	4166	-9.60	4.19E-25	6545	4.60	1.57E-04
1757	-4.00	7.61E-04	4167	5.00	5.68E-05	6549	-4.20	5.65E-05
1758	5.00	1.18E-03	4169	-5.10	1.24E-04	6550	-2.70	1.26E-03
1760	3.00	3.25E-03	4170	4.60	5.80E-07	6551	-10.60	1.04E-08
1763	3.60	1.15E-03	4178	4.60	1.23E-03	6555	5.50	5.55E-09
1764	-4.70	1.15E-06	4179	-2.20	9.27E-03	6557	2.00	1.70E-03
1768	-3.90	3.36E-03	4187	5.60	9.48E-07	6561	-7.10	6.74E-04
1772	-5.00	7.68E-03	4194	-6.60	4.05E-10	6564	4.30	1.19E-03
1773	-5.20	6.73E-03	4196	8.70	1.92E-14	6565	5.30	3.57E-08
1778	-5.80	2.39E-05	4197	-3.50	1.32E-04	6566	-7.10	5.82E-07
1779	5.00	3.25E-07	4198	-4.80	3.75E-07	6568	-7.50	2.80E-19
1780	8.80	1.94E-24	4202	8.70	2.80E-21	6571	-13.20	1.86E-12
1781	3.60	2.02E-03	4203	2.50	5.93E-03	6573	-6.80	8.71E-03
1782	3.60	2.08E-03	4204	-2.40	8.09E-03	6576	9.10	2.85E-06
1784	8.30	5.54E-08	4210	-5.00	1.08E-07	6580	-6.44	9.29E-08
1788	-6.90	1.63E-11	4212	-3.60	2.69E-04	6582	6.16	4.21E-11
1790	-6.30	4.36E-21	4214	-11.70	3.92E-13	6587	2.84	3.48E-04
1792	4.40	8.75E-04	4215	5.90	5.78E-11	6591	3.41	1.06E-03
1794	3.30	7.93E-04	4217	3.10	2.71E-04	6600	3.20	2.62E-03
1799	4.90	6.30E-08	4219	6.50	1.95E-05	6601	-7.33	2.67E-10
1803	-9.00	1.97E-10	4231	5.50	1.42E-09	6606	9.33	5.37E-08
1804	-12.30	6.71E-14	4232	5.60	2.56E-08	6607	-4.96	1.60E-07
1805	-5.90	9.12E-07	4234	-10.60	2.83E-22	6609	-4.06	3.40E-04
1806	4.60	2.12E-03	4235	8.80	1.45E-04	6614	-4.28	3.94E-03
1808	3.00	1.19E-03	4236	9.00	1.63E-11	6615	2.36	6.16E-03
1813	4.00	9.79E-06	4239	-8.10	5.61E-04	6617	6.12	1.72E-03
1815	-8.00	9.09E-07	4241	6.50	6.27E-05	6619	-6.18	9.33E-11
1820	-8.80	3.38E-13	4242	4.50	1.28E-06	6626	-8.60	2.49E-17
1823	2.70	3.81E-03	4244	-3.90	5.90E-05	6633	-6.53	1.08E-10
1825	-2.90	1.09E-03	4245	-6.90	8.58E-10	6635	-4.52	2.56E-03
1827	-9.80	3.94E-33	4246	-10.50	1.38E-28	6639	8.29	4.21E-20
1829	-5.60	1.02E-04	4248	-16.10	5.94E-09	6640	-6.96	1.59E-08
1836	-5.30	2.14E-06	4249	3.90	3.18E-04	6643	6.07	6.06E-12
1837	3.10	9.49E-04	4250	-6.70	6.05E-03	6648	-10.47	4.38E-08
1843	-6.10	3.16E-08	4259	3.50	6.79E-04	6658	-2.77	2.02E-03
1846	-8.30	7.50E-07	4261	-6.30	4.81E-13	6659	6.69	5.04E-14
1847	-6.30	1.68E-08	4262	5.80	4.86E-03	6660	-7.89	7.30E-13
1851	-4.10	4.11E-06	4264	-6.70	1.52E-08	6668	3.71	3.46E-04
1853	4.00	8.56E-03	4265	8.40	9.67E-14	6669	5.41	4.23E-07
1857	2.80	3.45E-03	4266	-10.30	1.77E-07	6671	-7.92	4.11E-16
1858	-5.30	6.21E-09	4268	-5.60	1.48E-10	6672	-3.51	2.15E-05
1859	-3.10	2.29E-03	4270	-4.40	1.41E-06	6676	-11.29	2.05E-24
1862	-8.80	5.46E-20	4271	-6.90	1.49E-03	6678	6.24	1.09E-05
1864	-6.00	3.11E-08	4272	3.30	8.85E-04	6681	6.05	2.31E-12
1865	4.20	2.20E-05	4276	-8.70	6.97E-16	6683	-5.44	3.18E-08
1867	-6.00	2.20E-05	4277	-3.10	2.24E-03	6684	4.68	1.30E-04
1869	7.30	6.62E-14	4278	-6.20	2.21E-11	6685	-6.13	3.49E-06
1870	-8.50	6.29E-04	4279	-3.40	4.67E-04	6690	-10.99	1.87E-12
1871	-4.20	1.53E-05	4284	-3.30	6.68E-03	6697	5.00	2.64E-08
1875	-5.70	1.93E-04	4293	-4.60	8.00E-03	6700	5.03	7.61E-04
1876	6.50	1.61E-12	4297	7.20	1.44E-15	6701	-4.22	4.13E-03
1879	-8.50	3.66E-14	4299	-10.90	1.82E-26	6703	-2.88	6.01E-03
1884	-9.90	1.92E-21	4301	-8.60	5.75E-12	6706	-5.87	1.66E-09

1889	-4.50	6.94E-07	4304	6.80	2.21E-04	6709	4.50	5.41E-06
1890	9.30	2.00E-14	4307	3.10	1.01E-03	6711	-10.77	1.14E-09
1892	3.60	1.65E-04	4308	-4.70	2.10E-04	6714	-8.64	1.72E-22
1893	5.40	7.76E-07	4313	5.90	2.36E-11	6716	2.41	8.10E-03
1896	4.30	1.28E-06	4314	4.80	7.19E-09	6718	-6.52	1.52E-05
1904	2.70	2.55E-03	4315	-3.10	2.42E-03	6722	-6.40	2.42E-09
1905	-5.80	2.21E-03	4317	-3.20	4.56E-03	6724	8.37	1.12E-13
1906	-5.30	2.28E-05	4319	-5.30	2.42E-07	6725	-4.47	1.26E-04
							135	
1907	-4.60	8.01E-06	4321	-6.90	1.02E-06	6726	-5.99	2.61E-06
1910	4.90	5.54E-04	4326	-3.70	2.23E-03	6727	9.33	3.68E-12
1914	4.00	1.24E-05	4327	4.30	1.07E-04	6735	7.03	4.89E-08
1919	-6.20	2.22E-04	4329	-6.00	5.24E-04	6741	7.55	2.15E-04
1920	4.40	1.36E-04	4331	-3.90	5.22E-05	6743	-4.75	5.53E-04
1922	-8.30	1.03E-21	4332	-4.30	3.93E-06	6749	-8.51	9.27E-12
1924	-4.40	4.29E-05	4333	-7.70	1.10E-08	6751	-9.52	4.77E-17
1925	-4.10	2.83E-04	4334	11.10	1.93E-41	6752	3.20	8.32E-04
1926	6.70	3.03E-12	4335	9.10	2.92E-10	6754	2.44	9.45E-03
1927	-7.00	1.64E-06	4337	2.40	9.38E-03	6755	4.82	4.24E-07
1928	-12.40	1.54E-40	4342	-4.20	2.97E-04	6757	-8.43	1.14E-12
1929	4.70	1.47E-07	4343	3.80	1.65E-04	6760	-3.16	9.92E-04
1930	4.70	1.24E-07	4344	3.90	9.06E-03	6762	-4.49	6.34E-07
1931	7.80	1.53E-07	4350	2.40	4.80E-03	6763	6.45	3.62E-09
1932	-10.20	7.11E-12	4351	-2.90	1.75E-03	6765	6.11	1.87E-14
1933	3.90	3.39E-05	4352	5.00	1.83E-08	6766	-6.43	2.88E-16
1934	7.00	9.35E-05	4354	7.20	1.10E-16	6770	-3.40	2.26E-04
1938	-9.40	3.62E-17	4357	-3.40	3.07E-03	6774	-9.01	4.14E-14
1939	10.00	1.23E-33	4358	7.40	3.14E-04	6776	4.06	1.31E-05
1941	9.20	1.01E-22	4362	-6.20	5.31E-08	6780	-6.80	6.66E-11
1944	5.60	6.11E-12	4366	4.90	4.26E-04	6783	-3.45	2.85E-04
1947	5.90	1.17E-05	4371	3.60	5.14E-03	6788	6.36	3.08E-04
1950	-4.80	9.44E-03	4374	-5.60	3.96E-09	6790	-2.52	6.94E-03
1952	-4.40	4.69E-03	4385	5.50	3.76E-10	6798	4.82	1.02E-03
1954	-5.20	9.44E-04	4386	-4.30	3.50E-06	6799	6.96	9.95E-16
1962	-3.70	4.38E-05	4387	-3.00	2.27E-03	6808	-3.36	7.61E-03
1963	-8.70	7.32E-05	4395	3.20	5.16E-04	6812	3.94	7.73E-04
1965	3.40	9.29E-04	4396	6.10	3.31E-12	6817	-6.57	2.45E-03
1969	6.00	2.47E-08	4398	-7.20	4.55E-14	6818	-5.46	1.83E-08
1971	6.30	3.38E-13	4399	4.70	2.72E-03	6819	-11.73	2.17E-11
1974	-7.00	2.07E-14	4400	-10.30	5.49E-17	6820	-11.88	2.79E-11
1977	-4.20	5.81E-03	4401	-12.30	5.12E-28	6821	-4.34	4.29E-04
1978	-8.80	1.41E-09	4405	-9.60	8.08E-10	6822	-4.39	3.77E-04
1980	6.00	3.64E-09	4408	3.70	8.40E-03	6823	-4.34	4.27E-04
1981	5.20	1.61E-08	4409	-3.40	5.22E-05	6824	-4.00	6.92E-05
1988	-7.60	1.32E-13	4415	-3.20	1.23E-03	6831	-2.23	3.78E-03
1989	2.40	8.18E-03	4417	3.60	3.35E-03	6833	-2.60	5.45E-03
1990	-10.30	2.60E-11	4418	-4.10	5.16E-03	6834	-3.97	8.52E-09
1996	9.60	2.99E-12	4419	-4.50	2.65E-03	6836	-2.94	3.11E-03
1997	6.30	3.97E-04	4420	-4.30	1.54E-05	6839	7.96	8.31E-22
1999	3.80	6.94E-06	4425	7.20	3.88E-15	6842	-5.23	3.93E-03
2002	-17.50	7.41E-15	4426	-7.40	7.69E-09	6843	-7.89	1.50E-14
2003	-3.00	1.07E-03	4430	3.50	1.63E-04	6849	-16.06	2.87E-13
2004	7.30	1.95E-08	4435	-5.00	9.34E-03	6854	-4.37	5.58E-04
2007	-4.60	4.71E-05	4446	-11.70	8.06E-23	6856	-6.24	7.14E-11
2009	-4.00	1.15E-05	4447	-2.80	1.25E-03	6857	-3.38	2.08E-04
2010	5.40	2.22E-09	4453	-4.50	2.31E-08	6862	-6.22	1.56E-03
2011	-3.10	3.94E-03	4454	2.80	2.68E-03	6864	-6.31	1.85E-12
2013	-3.80	7.44E-05	4455	-3.90	1.46E-05	6865	3.66	3.96E-04

2015	-7.80	2.59E-07	4457	-5.40	9.06E-03	6866	6.84	2.51E-06
2017	-5.10	3.07E-06	4458	-4.00	9.62E-06	6867	-3.40	8.13E-03
2018	6.30	1.09E-11	4467	5.40	4.50E-05	6869	-8.06	3.99E-17
2019	6.70	6.73E-13	4472	-2.80	5.39E-03	6870	-6.55	1.31E-04
2020	-4.40	3.59E-04	4476	-4.40	1.28E-06	6871	-2.50	8.55E-03
2026	-2.20	9.54E-03	4478	-9.20	1.60E-14	6878	-4.09	7.21E-03
2030	2.40	9.82E-03	4484	-8.90	6.53E-04	6879	-3.64	1.18E-04
2035	-3.80	5.49E-06	4485	-7.70	6.39E-18	6886	-5.13	1.51E-07
2042	5.50	1.71E-03	4486	12.10	2.66E-10	6887	-2.93	1.65E-03
2043	-4.00	8.55E-05	4487	7.80	1.24E-20	6889	-4.85	2.09E-07
2044	-7.90	6.75E-14	4493	-7.10	1.01E-09	6891	-5.74	3.63E-08
2045	4.70	1.65E-07	4499	-3.60	4.38E-03	6894	7.52	2.39E-10
2046	-5.00	2.01E-07	4501	3.10	2.07E-03	6895	6.39	1.27E-10
2048	3.00	1.44E-03	4502	6.00	3.27E-10	6902	2.79	7.99E-03
							136	
2049	7.90	1.97E-18	4503	3.90	1.48E-05	6904	2.73	1.71E-05
2052	-3.40	6.89E-03	4505	11.40	2.32E-39	6909	-5.79	7.77E-04
2053	-2.50	8.16E-03	4506	-3.20	1.17E-03	6910	5.12	1.20E-05
2056	-5.50	1.63E-09	4507	-3.00	3.24E-03	6916	3.36	9.37E-04
2059	7.50	6.71E-13	4512	-4.60	1.49E-06	6919	-2.96	4.71E-03
2071	6.30	2.42E-06	4515	4.40	1.17E-06	6926	2.87	8.78E-03
2072	-5.80	4.17E-05	4517	2.90	1.56E-03	6928	6.79	4.32E-11
2074	-3.00	5.72E-03	4523	4.30	1.39E-06	6933	-6.60	1.95E-05
2075	-4.90	6.24E-07	4524	8.30	5.11E-07	6934	-6.60	1.96E-05
2077	8.00	1.78E-26	4525	-8.30	1.12E-12	6936	-4.28	2.94E-05
2078	-2.50	4.97E-03	4528	-9.80	3.36E-11	6937	5.18	3.63E-04
2088	2.90	2.59E-03	4529	-13.20	1.25E-07	6938	-3.98	1.94E-06
2089	-5.50	3.35E-03	4530	4.60	5.60E-03	6939	5.76	3.92E-07
2090	-4.60	1.07E-06	4533	-2.70	3.73E-03	6942	-3.32	1.43E-05
2092	-6.00	1.56E-06	4536	4.10	1.32E-05	6944	-6.70	3.77E-03
2093	-6.50	2.16E-22	4537	-6.10	9.92E-07	6945	5.57	5.05E-10
2094	-6.20	8.92E-11	4539	-6.50	8.65E-03	6953	9.75	3.71E-27
2096	-6.30	1.68E-12	4542	11.80	6.39E-44	6954	-3.06	1.45E-03
2098	5.20	3.82E-04	4543	3.50	2.59E-03	6962	7.81	1.20E-17
2099	-4.10	5.55E-03	4544	-3.30	1.29E-04	6965	-2.27	7.45E-03
2101	-4.60	1.38E-05	4549	10.30	9.28E-11	6967	-4.11	4.67E-07
2107	10.20	6.57E-16	4555	-5.80	3.85E-03	6980	-5.27	4.68E-09
2110	7.70	3.05E-20	4562	-5.20	6.61E-09	6989	-6.32	2.43E-05
2114	-7.00	1.03E-05	4565	4.80	6.43E-05	6991	-4.42	1.38E-05
2115	-6.20	1.64E-03	4567	-9.40	5.79E-11	6996	12.51	7.86E-44
2116	-8.90	5.87E-06	4568	-2.20	3.55E-03	6998	-7.64	1.97E-09
2118	6.30	2.10E-09	4578	7.80	3.22E-19	6999	-9.44	2.83E-25
2121	5.20	1.95E-05	4580	-7.30	5.25E-10	7004	5.24	8.52E-09
2123	5.30	7.08E-07	4581	12.50	2.59E-44	7008	-2.70	9.98E-03
2125	-6.50	3.78E-03	4582	5.30	9.91E-10	7011	-5.38	5.49E-08
2126	6.70	2.44E-11	4583	9.00	6.28E-21	7012	-5.34	7.44E-08
2131	-6.30	4.86E-05	4585	-5.30	7.85E-04	7013	-6.10	1.44E-10
2133	5.10	3.96E-07	4586	-4.00	1.54E-05	7018	-4.70	4.50E-05
2134	3.80	9.99E-05	4589	3.40	1.48E-03	7020	3.44	1.25E-03
2137	3.70	6.48E-08	4591	-11.00	7.71E-05	7023	-5.34	2.18E-07
2140	5.60	2.70E-06	4599	3.40	1.42E-03	7025	-3.10	5.13E-04
2141	1.90	3.53E-03	4602	8.80	3.99E-25	7027	-6.09	2.03E-06
2145	-4.40	3.59E-06	4604	3.60	9.43E-03	7028	7.39	4.65E-07
2163	-6.80	1.24E-06	4606	-5.00	1.44E-08	7032	3.39	3.17E-04
2172	8.90	2.05E-17	4607	-4.90	2.41E-08	7044	-7.80	5.37E-13
2176	4.10	2.37E-06	4608	-7.00	5.41E-13	7047	-3.67	7.78E-04
2177	5.20	3.11E-08	4610	2.80	5.43E-03	7049	3.77	1.81E-05
2178	5.80	1.50E-07	4612	-7.00	9.50E-05	7052	-11.53	4.93E-08

2183	2.90	9.33E-04	4613	3.70	1.12E-04	7053	-4.37	2.24E-09
2187	-9.10	1.88E-12	4614	-3.10	4.34E-04	7055	-4.58	6.56E-06
2195	-3.80	7.64E-05	4615	-5.50	4.32E-04	7058	-2.53	5.79E-03
2200	-5.60	1.27E-03	4616	-5.50	1.01E-08	7063	4.23	2.47E-11
2203	-4.60	1.27E-03	4619	-6.70	1.78E-12	7064	5.13	2.02E-08
2210	-4.50	1.04E-05	4620	2.90	1.63E-03	7068	6.57	1.11E-08
2212	2.90	1.57E-03	4621	-3.90	1.42E-04	7069	-7.30	6.56E-10
2215	4.60	4.19E-06	4622	-7.50	4.70E-16	7071	3.39	2.58E-03
2217	3.70	5.08E-04	4623	-5.10	1.12E-07	7072	-6.35	1.80E-11
2218	4.10	5.38E-06	4627	-5.80	4.57E-05	7073	-6.35	1.80E-11
2222	3.70	8.97E-03	4629	8.50	7.61E-22	7077	3.91	8.59E-03
2224	2.60	3.93E-03	4634	-12.80	2.30E-25	7078	-5.13	1.52E-05
2226	-5.60	6.28E-03	4638	-4.10	7.44E-05	7079	5.74	9.92E-11
2227	-6.50	6.66E-09	4639	-4.10	6.05E-05	7082	4.33	5.05E-04
2228	-7.90	3.69E-07	4643	3.50	3.23E-04	7085	-3.10	1.46E-03
2229	-6.30	7.47E-08	4644	-3.40	1.74E-04	7086	-9.84	9.33E-22
2231	8.20	9.03E-13	4647	3.60	1.75E-03	7088	-6.65	5.03E-07
2232	-4.00	1.08E-03	4651	10.10	1.91E-21	7092	3.40	2.79E-04
2236	4.00	4.58E-03	4654	-10.60	1.69E-19	7094	-3.02	8.08E-03
2237	-6.00	3.52E-04	4662	-5.90	9.19E-08	7097	-3.06	3.06E-03
							137	
2238	3.40	1.03E-03	4664	9.90	3.17E-29	7098	4.52	4.86E-07
2239	2.00	4.99E-03	4669	-4.90	1.28E-05	7101	-6.19	9.49E-15
2242	3.90	4.68E-04	4670	-8.20	1.80E-12	7106	5.51	7.16E-09
2246	-8.10	5.30E-04	4671	-6.90	2.32E-11	7108	-5.32	8.31E-05
2248	-2.20	9.97E-04	4675	7.00	9.93E-15	7112	-7.68	4.05E-15
2250	-10.70	3.30E-33	4677	-4.70	3.38E-07	7116	9.03	2.33E-26
2251	-7.90	2.49E-13	4678	6.80	2.51E-10	7122	-3.94	4.21E-03
2257	-4.70	5.13E-06	4679	-9.50	6.40E-28	7123	6.80	3.61E-11
2260	-4.10	6.11E-05	4683	-2.50	8.98E-03	7124	5.05	3.22E-07
2261	-4.60	1.79E-06	4686	3.20	2.85E-03	7128	5.84	1.54E-10
2267	-3.40	1.65E-04	4687	5.50	7.13E-09	7129	-5.46	5.56E-09
2268	-5.10	8.68E-05	4688	2.60	5.47E-03	7130	6.66	1.01E-07
2271	3.90	1.14E-05	4690	-9.10	5.54E-13	7135	10.13	1.46E-05
2275	-5.40	2.20E-09	4691	-6.80	8.24E-10	7136	9.02	7.14E-05
2284	-6.30	1.43E-11	4692	-3.80	9.43E-04	7139	-6.26	8.98E-10
2285	-6.40	4.81E-11	4694	-6.40	7.36E-12	7140	-7.87	2.17E-04
2288	-3.20	7.82E-04	4696	-8.90	1.00E-20	7145	4.44	7.63E-07
2291	-5.90	1.00E-07	4699	2.80	5.91E-03	7146	3.35	2.80E-04
2293	10.20	5.74E-31	4702	2.80	1.92E-05	7147	3.50	1.53E-04
2294	10.10	1.41E-30	4705	3.00	1.43E-03	7149	5.30	2.02E-06
2295	-4.20	2.71E-05	12566	-3.63	3.82E-04	12657	7.00	5.65E-11
2300	10.10	2.66E-32	12577	-4.51	9.51E-07	12658	-4.15	4.78E-05
2303	8.20	2.61E-14	12584	-5.97	2.94E-07	12662	4.70	4.64E-05
2311	2.30	4.23E-03	12588	-5.39	1.42E-03	12665	4.06	1.42E-03
2314	2.40	1.72E-03	12590	-13.79	1.97E-17	12666	-4.46	4.28E-04
2315	4.50	1.44E-06	12591	-6.41	1.03E-10	12667	4.64	2.38E-03
2316	5.70	3.02E-09	12592	2.93	3.53E-03	12668	-5.90	4.61E-08
2318	-4.80	1.15E-06	12594	4.55	4.28E-05	12673	-8.88	9.41E-21
2321	-2.60	5.51E-03	12597	-5.38	1.68E-08	12674	7.83	1.04E-18
2323	5.30	1.98E-11	12598	-9.56	2.47E-16	12675	-4.56	3.29E-05
2324	-4.60	3.19E-05	12602	-3.83	5.91E-05	12676	-4.59	3.48E-05
2325	-8.90	6.52E-21	12649	-7.40	1.11E-05	12677	-3.24	4.72E-03
7202	-6.58	2.06E-05	2328	3.10	3.74E-04	12680	-5.15	4.67E-04
9496	-2.67	3.46E-03	2329	-7.10	5.34E-13	12681	-3.43	4.89E-03
4708	-4.10	5.41E-03	2335	-11.80	8.33E-29	12683	-2.98	1.16E-03
4711	3.40	5.33E-03	2336	2.80	2.21E-03	12685	-6.29	5.76E-08
4716	2.80	2.94E-03	2343	5.50	2.91E-10	12687	5.80	9.03E-05

4728	3.90	5.33E-05	4753	-3.00	1.98E-04	12688	-3.09	5.73E-03
4731	-4.80	1.75E-03	4756	7.40	3.83E-19	12690	4.44	1.89E-04
4732	2.60	3.55E-03	4757	-3.90	2.73E-05	12693	4.76	1.85E-07
4734	-6.40	2.22E-07	4758	-5.30	2.85E-07	12701	3.65	1.61E-04
4739	-4.20	7.26E-06	4760	-9.20	2.54E-17	12702	-10.32	3.46E-04
4740	-4.20	7.42E-06	7195	-3.89	1.85E-04	12705	-4.12	1.16E-05
4744	3.30	3.86E-03	7197	-8.51	1.93E-20	12706	7.03	4.63E-15
4746	5.00	3.53E-08	7198	-5.22	1.17E-05	12716	4.58	3.27E-06
4752	-2.50	8.56E-03	7199	-8.61	1.31E-15	12718	-4.83	5.23E-04
9494	-11.60	8.57E-07	12720	3.78	8.59E-05	2344	3.00	1.17E-03
12605	-5.03	2.04E-08	12725	-9.37	1.34E-19	2345	-3.70	8.95E-05
7150	3.02	1.91E-03	12732	3.97	2.19E-05	2353	4.40	3.90E-04
7151	2.98	2.20E-03	12740	-3.07	1.75E-03	2354	-12.30	1.11E-10
7160	7.94	3.16E-14	12746	3.95	6.20E-06	2357	4.10	1.43E-03
7161	-5.65	3.97E-08	12747	-5.49	1.21E-05	2358	4.80	3.20E-05
7162	3.61	1.09E-04	12754	-4.28	1.29E-03	2364	-5.10	2.52E-08
7165	-4.28	2.93E-04	12756	-6.76	1.51E-08	2369	-6.80	3.71E-14
7166	-5.57	5.68E-09	12760	-2.88	1.20E-03	2371	-4.00	1.07E-03
7172	5.57	8.46E-10	12766	-3.95	7.09E-03	2373	-8.60	1.15E-09
7180	-7.36	1.17E-06	12781	-4.81	8.19E-05	4761	-9.20	3.00E-17
7181	-10.99	2.04E-07	12782	2.63	7.17E-03	4762	2.30	7.26E-03
7184	-3.02	9.29E-04	12785	4.36	5.89E-03	4763	-6.20	1.01E-11
7190	7.33	5.84E-16	12786	5.03	1.67E-07	4764	7.00	4.86E-08
12610	-11.72	1.21E-08	12795	6.21	9.70E-12	4765	-3.20	4.94E-04
9493	-6.12	2.13E-11	12798	-4.84	9.68E-08	4766	-4.40	4.25E-06
9459	-5.45	5.83E-08	12799	7.60	2.63E-13	4770	-3.80	3.82E-05
							138	
9460	4.44	1.46E-05	12804	-13.81	2.02E-06	4771	-11.20	4.80E-12
9461	3.71	1.43E-04	12816	-4.44	2.29E-03	4780	6.10	3.71E-11
9463	3.80	6.06E-05	12821	-4.89	9.25E-04	4781	5.10	1.04E-05
9464	-3.65	1.08E-03	12826	6.82	4.11E-08	7203	-2.40	6.76E-03
9468	-6.14	3.05E-09	12827	-5.35	4.45E-04	7204	5.95	2.58E-10
9473	-3.21	4.03E-03	12828	-5.21	1.62E-07	7208	-4.83	8.49E-05
9476	-4.83	2.94E-07	12833	-5.09	6.55E-06	7209	9.04	3.17E-14
9477	4.65	9.84E-06	12834	3.00	9.21E-03	7213	2.49	1.80E-03
9478	6.23	1.13E-05	12837	3.44	3.94E-04	7218	-7.91	7.43E-20
9483	-6.26	1.20E-06	12840	-8.23	6.92E-07	7219	-8.91	9.30E-18
9486	-10.95	4.32E-10	12846	3.62	1.78E-04	7223	-10.95	4.35E-19
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12549	5.97	4.72E-06	12852	2.72	3.54E-03	9498	-5.21	3.31E-08
12552	-4.20	1.87E-03	12856	6.06	1.13E-10	9500	-4.96	6.62E-07
12557	-8.79	2.76E-16	12859	-3.85	8.28E-05	9506	3.40	6.19E-03
12565	3.84	2.68E-03	12865	9.69	5.53E-06	9507	3.07	5.97E-04
14873	-4.22	8.87E-06	12868	-2.96	1.57E-03	9508	5.51	3.48E-10
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14883	8.25	4.23E-05	12881	4.97	1.03E-07	9517	-7.68	5.19E-13
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14886	5.32	1.15E-09	12885	8.07	9.20E-19	9530	-6.01	2.52E-06
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14899	4.71	1.15E-05	12888	-5.56	1.02E-07	12614	-5.53	3.21E-06
14904	7.34	1.66E-15	12889	10.43	1.44E-36	12623	-5.53	6.24E-09
14915	5.37	1.01E-09	12891	2.89	1.74E-03	12625	3.53	4.27E-05
14925	7.72	1.28E-18	12893	-7.82	4.83E-16	12626	-3.55	6.77E-04
14932	-3.76	6.17E-03	12894	-6.66	6.24E-05	12627	-8.28	4.54E-06
14934	3.86	1.41E-03	12897	4.46	9.94E-04	12630	5.55	6.29E-06
14937	7.89	1.09E-19	12902	-6.78	1.18E-12	12636	-5.62	2.50E-06

14938	3.87	9.29E-03	12905	-7.92	2.20E-13	12644	-8.48	2.92E-17
14940	7.36	4.12E-09	12907	3.11	6.53E-03	14568	-6.17	3.79E-05
14948	-2.53	6.91E-03	12909	-2.50	6.31E-03	14571	3.09	8.81E-03
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14966	-10.74	9.96E-29	12926	-6.65	2.61E-05	14586	-4.55	3.53E-04
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15131	-5.58	2.50E-09	13009	-8.64	1.06E-17	14700	-7.63	7.19E-17
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15147	-3.41	2.09E-04	13020	2.89	1.20E-03	14705	-6.69	2.18E-10
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14311	-5.11	8.85E-09	13210	6.10	2.71E-11	13891	-8.18	2.22E-09
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13420	6.80	1.09E-08	13238	-5.07	1.18E-08	13916	-10.96	6.52E-12
13432	2.60	5.20E-03	13249	-3.85	3.43E-05	13917	-7.07	3.21E-13
13434	6.62	2.24E-10	13255	3.30	4.66E-04	13920	-8.45	1.25E-06
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13457	-6.66	1.17E-10	13295	3.75	4.03E-03	13939	-4.20	9.62E-06
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13501	-3.26	5.37E-04	13324	4.30	3.14E-06	13527	-7.01	1.99E-15
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13512	5.42	3.49E-08	13328	9.89	1.21E-19	13538	-6.26	9.27E-09
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13519	5.05	1.80E-05	13336	-5.20	8.19E-08	13551	5.19	8.44E-05
13521	-3.24	5.30E-04	13340	-5.95	1.58E-07	13554	-3.31	9.44E-04
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7335	-5.52	9.03E-05	9635	2.91	1.09E-03
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7338	-5.01	3.49E-06	9640	-2.67	3.57E-03
7340	-3.89	9.80E-04	9645	3.48	2.52E-05
7341	-8.54	4.42E-04	9646	-5.27	1.12E-08
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7355	-5.03	6.52E-09	9660	-4.96	2.85E-06
7357	9.10	3.84E-18	9664	-3.44	3.42E-03
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7359	-8.94	8.57E-07	9670	5.67	2.74E-09
7367	-4.64	1.19E-05	9671	4.82	1.31E-05
7370	-9.61	3.21E-08	9672	-7.80	5.07E-17
7374	6.71	5.08E-14	9673	7.84	3.12E-10
7380	3.01	1.13E-03	9676	4.66	1.55E-07
7386	-6.39	2.01E-11	9677	-2.63	7.22E-03
7388	-5.35	1.41E-08	9680	6.63	9.93E-14
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7392	-8.19	1.29E-05	9685	-7.86	3.32E-09
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7399	7.19	3.46E-04	9688	6.46	1.16E-12
7400	7.20	3.37E-04	9691	-4.27	5.58E-06
7403	-5.28	1.63E-04	9693	4.09	1.79E-05
7404	-5.36	1.41E-04	9694	4.33	8.36E-06
7406	5.17	1.86E-06	9695	-5.80	9.57E-04
7407	3.87	2.02E-05	9698	7.41	8.03E-16
7410	3.40	9.73E-04	9699	-6.55	8.71E-09
7412	-6.81	3.04E-07	9700	3.02	1.90E-03
7414	3.62	9.00E-07	9701	-4.43	1.37E-04
7416	-4.69	4.50E-07	9703	4.77	1.64E-07
7420	-2.72	2.19E-03	9707	-5.95	4.07E-10
7421	-5.33	1.87E-08	9708	3.43	3.95E-03
7424	8.44	7.40E-14	9711	-3.98	2.64E-08
7425	-3.31	3.04E-03	9712	-11.39	3.13E-06
7426	4.43	2.90E-06	9713	5.75	4.03E-04
7427	-4.87	1.16E-04	9714	4.96	2.26E-08
7429	3.57	1.07E-04	9715	-5.38	2.27E-09
7430	-6.89	1.25E-13	9716	8.08	1.30E-18
7434	8.41	2.09E-26	9719	-4.39	2.90E-06
7437	3.39	8.38E-05	9722	-5.36	4.37E-07
7439	4.61	3.06E-04	9723	6.48	4.41E-06
7441	-2.71	6.22E-03	9725	-6.94	1.16E-12
7443	-11.89	2.56E-08	9730	-8.31	5.56E-13
7447	-2.87	2.60E-03	9732	-7.98	4.35E-07
7448	-9.08	9.51E-25	9733	2.90	1.46E-03
7449	-3.92	2.91E-04	9736	-4.87	1.35E-07
7453	-6.14	6.86E-11	9738	-2.84	5.36E-03

7455	-7.52	2.73E-03	9746	8.23	3.67E-14
7460	9.82	6.57E-24	9747	-12.57	4.99E-14
7461	5.89	2.43E-04	9749	2.60	3.74E-03
7464	-5.37	4.99E-05	9757	-7.84	7.94E-03
7467	-3.25	9.37E-04	9758	-7.55	6.58E-04
7468	6.51	5.80E-14	9766	5.24	6.55E-04
7469	-5.75	1.81E-04	9767	-10.61	2.92E-05
7471	-3.09	2.17E-03	9768	-3.48	9.62E-03
7472	5.85	7.39E-09	9769	6.87	3.07E-05
7476	-5.98	7.10E-04	9771	-3.97	3.85E-05
7478	-7.64	4.56E-05	9774	-4.42	1.03E-05
7490	-4.91	2.49E-08	9777	7.27	2.25E-05
7491	4.43	9.48E-04	9779	4.70	1.38E-03
7493	4.97	5.20E-08	9780	-4.74	4.78E-04
7494	-3.08	1.26E-03	9781	-5.74	3.12E-07
7495	-4.70	1.35E-04	9782	-6.97	5.41E-15
7496	-3.96	8.67E-06	9788	4.09	4.93E-04
7497	4.17	2.39E-06	9794	-3.56	1.84E-04
7498	5.21	2.25E-05	9796	-6.63	1.36E-03
7500	5.21	2.40E-03	9802	4.98	5.86E-03
7502	-7.39	2.24E-14	9809	4.77	5.12E-05
7504	-5.98	1.14E-05	9813	3.71	3.15E-05
7506	-6.76	4.41E-14	9815	3.66	5.33E-05
7507	-6.09	7.17E-08	9817	3.42	1.46E-06
7508	-4.48	2.73E-03	9818	3.67	2.10E-07
7509	2.66	2.83E-03	9819	-5.36	1.44E-08
7515	-12.06	1.23E-25	9820	3.61	6.35E-03
7516	-11.65	5.00E-25	9825	-4.59	2.56E-05
7517	-4.36	4.06E-04	9833	-6.25	5.28E-03
7520	5.00	2.58E-08	9837	-6.75	1.30E-06
7524	-5.94	1.27E-09	9838	-7.38	1.87E-15
7525	-5.80	3.02E-09	9844	4.54	1.73E-03
7532	-8.09	3.46E-10	9847	6.68	3.30E-11
7533	6.92	8.73E-12	9848	5.58	1.44E-05
7537	2.24	4.43E-04	9851	-8.44	1.78E-06
7539	1.94	6.55E-03	9856	-2.18	4.56E-03
7540	2.82	3.14E-03	9858	-3.28	1.59E-04
7543	-4.99	2.76E-06	9859	-5.01	1.94E-07
7545	5.22	4.17E-07	9860	-7.84	1.65E-09
7547	-3.83	1.51E-05	9863	-6.47	3.23E-09
7548	-6.18	1.56E-10	9866	-6.42	1.74E-11
7549	-5.51	4.93E-09	9867	-5.34	1.49E-08
7559	8.35	9.03E-21	9868	-8.55	6.21E-14
7560	7.58	1.81E-16	9869	-7.00	2.15E-08
7564	-6.16	1.98E-12	9870	2.96	1.14E-03
7565	-5.28	9.59E-04	9874	-7.10	8.85E-14
7568	7.47	1.55E-08	9876	6.08	8.18E-12
7569	6.53	6.96E-12	9879	4.10	5.64E-06
7570	-8.40	8.75E-22	9882	4.71	1.37E-06
7571	5.51	7.35E-15	9886	2.77	8.90E-03
7572	5.03	7.21E-09	9889	3.72	6.56E-04
7573	4.08	3.10E-05	9891	5.62	1.21E-09
7575	-7.68	2.46E-07	9894	-4.21	4.01E-06
7578	-8.49	8.99E-14	9897	-2.84	2.03E-03
7579	-3.93	1.04E-05	9901	1.71	7.08E-03
7580	4.56	1.85E-06	9907	-7.43	4.13E-05
7582	-5.27	2.80E-07	9908	3.37	1.51E-04

7583	-5.41	3.05E-04	9910	2.60	9.58E-03
7584	5.58	7.17E-08	9914	-6.45	1.90E-03
7585	-2.35	8.27E-03	9917	-6.17	1.46E-08
7588	-5.77	2.95E-11	9919	2.53	5.13E-03
7590	-3.84	6.68E-03	9921	5.62	3.32E-06
7594	-3.63	2.80E-04	9922	-3.52	1.69E-03
7595	2.86	2.63E-03	9924	5.64	3.60E-10
7597	-4.96	2.82E-08	9925	5.93	1.77E-10
7601	-7.62	3.69E-12	9927	6.76	4.71E-09
7605	-7.23	3.92E-13	9932	-3.67	3.01E-03
7609	3.08	3.31E-03	9936	-3.05	3.99E-05
7611	-5.92	3.17E-11	9937	-3.17	4.69E-03
7612	4.84	4.03E-03	9945	-6.32	3.14E-11
7617	6.64	1.35E-04	9946	13.87	3.94E-45
7619	7.12	5.91E-11	9949	-4.73	9.19E-04
7623	-6.16	7.67E-03	9950	-3.38	7.89E-04
7624	4.28	5.40E-04	9952	6.95	2.59E-08
7629	6.03	3.34E-04	9956	4.16	1.19E-03
7630	-6.69	1.83E-03	9957	-7.82	3.44E-13
7635	-5.14	7.32E-05	9959	6.63	9.93E-14
7639	-4.58	5.22E-07	9961	8.36	2.15E-21
7640	-6.15	2.51E-03	9962	-3.85	1.16E-04
7642	-4.66	1.72E-08	9964	5.76	4.81E-06
7643	4.27	1.57E-06	9967	-3.33	1.06E-03
7644	-7.13	1.58E-16	9973	-6.71	9.20E-08
7645	-7.67	6.23E-06	9975	-3.19	2.24E-05
7648	-14.49	2.48E-10	9981	-5.96	6.61E-11
7649	-8.11	2.32E-11	9982	-4.81	8.29E-08
7652	-3.88	5.13E-03	9986	-4.48	3.14E-03
7656	3.65	8.11E-05	9989	5.63	2.77E-07
7657	4.38	2.51E-06	9992	-8.60	1.76E-08
7658	-11.85	1.38E-05	9993	-2.76	2.76E-05
7659	-10.18	4.13E-14	9994	4.28	1.84E-06
7660	11.32	3.41E-19	9995	8.81	4.01E-24
7664	4.81	2.22E-04	10000	-2.94	1.89E-03
7665	6.61	7.95E-14	10006	-3.96	3.72E-05
7666	-2.85	1.84E-03	10010	-4.51	2.02E-06
7668	-6.70	1.52E-05	10011	-9.07	4.50E-22
7669	3.27	4.84E-03	10018	2.66	3.64E-03
7672	3.22	2.71E-04	10020	2.62	1.40E-03
7676	-9.20	2.78E-15	10021	-4.29	4.63E-05
7684	-4.31	1.91E-05	10023	-6.20	2.82E-12
7689	12.55	4.34E-44	10025	-3.44	3.89E-04
7690	-9.22	5.32E-24	10026	-6.76	5.48E-13
7691	-9.31	2.37E-24	10035	5.49	1.92E-08
7693	-6.13	1.44E-07	10036	-3.64	1.25E-04
7696	-6.93	9.19E-04	10039	-7.06	5.74E-11
7701	-7.52	1.00E-15	10041	4.09	4.90E-04
7708	-4.49	7.84E-07	10043	-6.67	1.28E-03
7720	-3.07	5.58E-03	10044	6.01	2.41E-11
7721	-12.95	4.87E-26	10045	-7.41	4.80E-04
7722	-15.78	5.04E-14	10046	-2.65	5.84E-03
7725	3.25	3.32E-05	10053	-6.69	1.14E-05
7726	4.34	2.08E-04	10054	3.69	1.99E-04
7727	5.96	2.14E-11	10056	5.39	4.67E-06
7730	-3.01	8.19E-04	10059	-5.99	1.57E-11
7737	-8.40	3.07E-21	10062	-8.64	1.71E-23

7738	4.81	1.34E-09	10064	-8.78	3.05E-04
7739	2.58	5.99E-03	10066	-8.01	6.92E-19
7742	-6.30	2.96E-10	10074	-6.73	3.50E-06
7745	7.44	1.41E-16	10077	-6.03	4.71E-18
7746	5.16	4.33E-03	10079	6.43	4.66E-06
7747	5.68	2.74E-09	10081	-2.99	1.34E-03
7748	-10.14	7.35E-06	10084	8.47	1.06E-14
7749	-3.77	9.46E-05	10092	-5.49	1.43E-08
7750	4.92	1.26E-04	10095	5.43	9.31E-16
7751	4.48	3.12E-04	10098	5.11	1.70E-04
7753	8.22	2.23E-15	10102	7.51	4.64E-09
7754	3.47	7.46E-05	10103	-2.60	6.32E-03
7755	3.80	2.70E-09	10104	-3.32	2.05E-04
7759	-5.26	1.02E-08	10107	-4.46	5.69E-06
7760	-3.88	1.83E-03	10108	-5.91	6.50E-03
7770	4.35	4.78E-05	10110	4.74	2.65E-07
7774	4.79	4.06E-06	10114	8.60	6.61E-11
7777	-8.68	1.03E-20	10115	-4.24	2.06E-05
7779	-8.01	1.30E-03	10117	-6.03	2.46E-10
7781	4.47	1.66E-06	10119	-3.80	2.23E-05
7785	-6.96	1.62E-07	10124	-8.30	2.27E-18
7787	2.49	7.27E-03	10127	-8.39	1.13E-10
7788	3.85	8.29E-05	10132	5.48	7.66E-08
7789	6.93	1.17E-10	10134	-9.05	2.92E-04
7807	-3.72	4.26E-04	10138	-7.15	9.67E-05
7808	-9.91	5.92E-06	10139	-6.64	3.17E-14
7810	-8.51	2.49E-17	10148	-7.41	7.49E-15
7812	-6.83	1.62E-04	10150	-3.54	3.41E-05
7813	-5.76	1.18E-03	10151	-4.69	2.31E-03
7814	-3.87	2.05E-05	10156	-7.26	3.64E-04
7815	-4.40	8.27E-05	10157	-3.90	7.55E-06
7816	-5.09	2.75E-07	10160	10.37	7.99E-36
7822	-9.86	2.97E-27	10161	-10.51	2.57E-15
7823	5.93	1.79E-11	10162	-8.63	1.81E-19
7825	-3.64	8.15E-05	10163	4.55	2.78E-06
7826	5.23	1.61E-08	10174	2.62	2.91E-03
7827	-6.91	6.36E-11	10175	2.51	4.19E-03
7828	-9.79	1.61E-17	10176	4.08	8.88E-06
7830	-3.97	4.31E-05	10177	8.93	1.31E-21
7831	-3.73	1.42E-04	10182	5.37	2.40E-04
7832	2.71	8.98E-03	10183	-7.86	2.38E-04
7834	-3.27	1.37E-03	10186	-3.61	2.92E-03
7837	7.94	2.80E-11	10187	-3.15	1.13E-04
7841	3.86	6.87E-03	10193	-3.16	5.10E-03
7843	7.17	3.20E-14	10194	-5.89	2.33E-09
7844	-3.99	1.65E-05	10195	4.91	4.12E-04
7849	-5.15	5.17E-04	10198	4.32	4.31E-06
7850	5.96	2.17E-03	10199	8.87	1.42E-24
7854	-12.45	4.55E-14	10200	11.03	7.96E-30
7856	-5.55	9.63E-09	10208	5.66	1.86E-09
7857	-8.73	3.45E-09	10212	-10.25	1.69E-16
7858	-8.63	1.28E-19	10222	-6.41	2.23E-03
7859	2.51	8.95E-03	10226	3.67	3.95E-05
7860	-8.00	2.19E-12	10230	3.79	9.04E-04
7861	-4.72	1.37E-04	10233	4.07	5.77E-05
7862	4.23	2.58E-06	10240	4.77	3.11E-03
7863	7.43	4.62E-16	10257	5.33	1.21E-04

7869	-8.79	9.70E-05	10258	-5.68	1.28E-05
7871	11.26	3.34E-27	10265	-5.29	2.91E-04
7873	3.41	3.78E-04	10268	-5.77	2.94E-11
7876	-3.18	1.22E-03	10269	-6.75	2.26E-04
7879	-5.84	1.89E-08	10272	4.44	1.04E-04
7883	3.03	6.79E-03	10274	-7.69	1.64E-09
7885	3.69	1.71E-03	10276	-6.50	6.38E-03
7889	-6.72	4.46E-13	10277	-5.66	4.38E-05
7891	-5.50	6.92E-10	10282	5.92	6.61E-04
7897	4.37	1.67E-04	10283	-7.41	6.29E-11
7899	-4.32	1.83E-06	10286	-4.62	4.06E-06
7900	-9.37	4.90E-11	10289	-4.53	8.60E-05
7901	3.70	1.30E-04	10290	2.95	2.57E-03
7906	3.31	2.91E-04	10291	-3.47	1.17E-04
7910	4.65	1.07E-03	10292	-6.15	6.42E-05
7914	3.15	6.19E-04	10293	5.14	4.51E-03
7915	3.87	1.74E-05	10296	-3.41	1.84E-04
7916	3.88	2.59E-05	10298	5.50	3.60E-03
7917	4.42	9.23E-03	10299	4.44	6.37E-05
7921	-7.40	5.09E-09	10300	-5.18	3.08E-07
7924	2.29	7.49E-03	10301	3.04	2.59E-03
7927	6.32	6.56E-12	10302	4.81	1.27E-07
7932	3.48	4.37E-04	10304	-3.80	1.10E-04
7933	5.42	5.57E-03	10305	-5.62	3.24E-09
7934	3.02	2.56E-03	10311	-7.01	1.60E-04
7936	-3.24	2.31E-03	10313	-3.99	2.08E-05
7937	2.30	4.66E-03	10315	-7.55	3.69E-09
7939	5.56	2.19E-09	10317	-5.44	7.24E-07
7941	6.14	1.08E-08	10324	-2.48	4.46E-03
7942	-3.41	1.65E-04	10325	-6.50	1.46E-03
7948	-2.55	6.19E-03	10333	7.89	2.27E-18
7949	-5.91	4.54E-08	10337	4.23	5.95E-03
7950	-6.52	1.70E-12	10341	-8.62	5.51E-16
7953	2.99	5.04E-03	10343	5.69	6.69E-10
7956	-7.92	5.02E-13	10346	-12.94	3.77E-07
7959	-2.49	8.12E-03	10353	6.25	1.07E-05
7964	4.09	2.50E-06	10355	5.37	9.53E-08
7965	9.00	2.45E-25	10357	3.06	5.73E-03
7966	-8.72	2.81E-15	10358	-6.80	6.76E-08
7972	2.87	8.18E-03	10362	-5.60	5.07E-08
7973	3.56	1.61E-03	10363	3.39	3.44E-04
7974	6.86	7.91E-08	10366	-3.79	2.76E-03
7981	4.96	2.98E-06	10367	3.40	1.68E-04
7982	8.91	2.09E-17	10368	5.76	2.31E-06
7997	4.70	6.93E-05	10369	-3.74	1.91E-03
8002	-3.78	6.51E-03	10370	6.73	5.17E-15
8003	-3.40	4.47E-04	10371	-3.79	5.72E-05
8006	-6.89	2.75E-12	10372	-3.87	1.16E-08
8007	-13.25	9.36E-08	10373	-5.83	2.19E-09
8008	-3.82	2.62E-04	10374	-3.24	2.27E-04
8009	-7.66	1.58E-15	10375	-6.22	4.36E-08
8012	-9.50	2.33E-10	10383	-5.11	5.01E-04
8013	-5.75	2.37E-04	10386	-3.42	2.69E-04
8018	8.80	4.59E-11	10387	-3.60	1.26E-04
8021	5.09	3.73E-06	10393	-3.30	2.49E-03
8022	-3.73	2.35E-03	10396	-6.67	1.45E-07
8024	-10.52	2.17E-28	10397	2.54	9.78E-03

8025	-12.11	1.93E-13	10399	4.07	4.95E-05
8026	4.50	2.49E-03	10400	-4.45	2.17E-03
8032	-8.66	1.35E-22	10402	-7.37	1.28E-17
8034	2.65	4.48E-03	10404	-4.18	1.71E-06
8035	2.69	3.88E-03	10407	-3.11	5.25E-03
8037	-10.53	2.87E-15	10408	-6.63	2.11E-11
8039	-3.18	4.89E-04	10411	-6.94	2.90E-04
8040	8.39	6.32E-14	10415	-3.89	2.18E-03
8044	3.01	3.56E-06	10419	6.27	3.39E-04
8046	8.25	2.66E-15	10422	5.54	6.91E-05
8048	-5.19	1.57E-07	10423	7.41	3.92E-12
8054	4.20	7.55E-06	10426	-4.00	1.22E-05
8055	8.41	1.83E-15	10427	-6.04	6.45E-05
8062	-4.36	1.49E-04	10436	-7.55	1.65E-05
8063	-4.52	8.20E-05	10438	11.61	2.21E-47
8064	-3.26	3.78E-03	10444	-11.09	3.12E-26
8065	-4.61	3.71E-04	10448	-6.23	1.05E-09
8066	-3.04	8.10E-03	10449	-5.10	5.28E-08
8067	-2.58	6.63E-03	10453	-8.22	9.85E-05
8070	2.69	2.64E-03	10454	5.47	2.94E-10
8071	-2.99	9.79E-04	10456	-6.66	7.02E-09
8072	-2.95	1.13E-03	10461	-5.50	1.14E-04
8073	6.86	6.46E-10	10462	4.10	1.16E-05
8074	5.28	7.86E-04	10468	-2.87	3.74E-04
8075	-5.88	9.61E-11	10474	-6.24	3.22E-08
8081	3.10	4.06E-03	10480	-5.41	1.94E-05
8084	5.56	6.42E-10	10481	5.12	1.53E-06
8085	-3.76	4.56E-04	10483	6.78	2.96E-04
8086	3.63	9.45E-05	10485	2.97	4.23E-03
8087	-5.75	1.07E-09	10487	-7.36	3.01E-10
8088	4.81	1.66E-05	10493	-5.67	2.96E-03
8089	7.94	5.89E-13	10494	5.26	4.91E-12
8090	6.42	3.00E-07	10495	-3.39	1.89E-03
8094	4.81	2.76E-07	10498	-12.44	9.81E-11
8097	-2.47	9.19E-03	10500	-3.31	1.12E-03
8098	3.10	1.03E-03	10503	3.16	8.63E-04
8100	3.13	1.32E-03	10505	5.69	4.20E-10
8101	-3.27	4.10E-03	10513	-5.05	1.10E-07
8102	-6.87	2.16E-14	10515	-6.54	3.48E-05
8105	8.00	1.92E-16	10516	4.22	1.46E-04
8107	4.71	2.36E-03	10520	-15.58	5.26E-18
8108	3.08	1.36E-03	10524	-5.66	3.07E-09
8109	2.84	3.35E-03	10537	-5.04	1.53E-07
8110	-11.18	4.15E-14	10538	4.77	4.38E-05
8111	-5.49	1.45E-08	10539	3.12	5.86E-04
8117	2.96	1.16E-03	10542	1.83	5.25E-03
8118	-3.49	3.68E-03	10543	-3.93	2.15E-03
8119	-3.33	1.25E-04	10547	-4.57	7.50E-05
8122	-2.64	2.09E-03	10548	5.51	1.78E-09
8127	7.49	8.27E-18	10550	-5.16	8.48E-08
8129	-4.45	4.43E-03	10553	2.78	7.02E-03
8133	-3.78	2.25E-05	10554	-6.64	5.18E-07
8141	-4.75	4.92E-03	10555	5.54	2.33E-05
8142	-7.70	1.89E-15	10558	-3.53	2.57E-04
8143	-7.54	6.82E-15	10559	2.58	4.87E-03
8145	-4.06	7.32E-06	10560	-4.16	1.36E-05
8146	4.98	3.82E-09	10561	-7.45	7.45E-09

8147	7.14	8.05E-15	10563	-4.35	1.37E-03
8149	8.32	6.12E-21	10565	-3.72	2.75E-03
8150	9.58	4.32E-17	10569	5.59	2.46E-09
8152	-5.87	4.75E-10	10570	-3.73	8.28E-05
8158	2.39	1.00E-03	10572	-4.09	9.79E-05
8159	-3.84	5.75E-05	10576	-8.11	3.80E-19
8160	-6.38	5.62E-12	10577	-3.94	8.86E-03
8161	6.36	1.16E-12	10579	-5.49	2.61E-03
8163	-8.34	1.91E-21	10582	3.39	1.07E-07
8164	5.94	6.90E-03	10584	-5.78	4.45E-09
8166	8.58	9.05E-21	10586	-6.44	3.52E-04
8167	-3.55	2.02E-04	10588	3.99	1.83E-05
8168	-8.96	8.53E-24	10590	-3.71	3.49E-05
8172	5.63	2.25E-06	10593	5.89	2.30E-10
8184	-4.57	2.03E-05	10595	-2.78	4.56E-03
8187	-3.15	4.30E-03	10599	-7.46	8.68E-09
8188	6.07	1.88E-11	10601	-8.20	1.84E-16
8189	-4.08	1.48E-04	10603	-3.40	4.85E-04
8190	-6.73	2.00E-04	10604	-11.64	3.75E-25
8192	8.17	6.39E-16	10607	2.78	7.98E-04
8193	8.98	2.79E-13	10608	-5.78	1.43E-08
8194	-6.57	4.55E-07	10612	-4.92	6.20E-05
8196	-2.70	7.53E-03	10613	-4.48	1.12E-04
8197	-5.71	1.08E-03	10618	3.18	4.39E-04
8202	13.08	1.04E-06	10622	-5.45	2.03E-03
8206	-5.96	3.69E-11	10625	4.22	7.94E-06
8207	5.07	3.31E-03	10627	-4.85	1.10E-07
8208	3.62	2.35E-07	10630	3.67	7.74E-04
8212	-8.39	3.41E-13	10633	-4.13	1.11E-04
8219	5.33	8.38E-06	10634	7.11	1.05E-08
8220	-6.99	7.04E-07	10649	8.86	6.72E-23
8230	-3.27	1.79E-03	10660	-6.63	2.95E-05
8232	-3.06	5.28E-03	10666	-6.15	5.69E-06
8233	-9.00	6.83E-24	10668	-14.09	3.15E-18
8235	-5.38	3.31E-09	10674	-4.60	5.80E-07
8237	4.82	1.10E-05	10677	5.32	3.55E-08
8238	4.78	1.05E-05	10678	-7.88	3.14E-05
8239	4.55	5.10E-06	10681	-3.00	1.24E-03
8240	-5.61	4.58E-08	10682	-4.72	4.90E-03
8243	-6.42	1.15E-08	10685	3.16	1.42E-03
8244	-4.46	1.97E-06	10688	-8.24	4.99E-19
8246	-7.74	5.25E-04	10696	-6.42	2.06E-08
8250	5.28	2.14E-03	10711	-6.81	2.59E-14
8259	4.15	1.56E-10	10717	-3.75	1.69E-04
8260	7.98	3.93E-18	10722	4.77	1.48E-05
8261	11.44	2.59E-30	10724	-14.15	4.68E-13
8264	-7.51	1.75E-06	10728	4.23	2.41E-03
8267	-7.43	1.95E-07	10731	-6.40	5.95E-04
8271	2.75	2.94E-03	10733	6.17	1.15E-08
8272	4.55	5.31E-05	10734	11.27	3.95E-32
8274	3.52	5.63E-05	10738	-5.52	2.82E-05
8275	-4.11	1.79E-03	10741	-5.32	1.75E-05
8276	-9.25	4.10E-24	10744	-8.64	2.72E-08
8277	-5.19	1.00E-03	10748	2.65	4.72E-03
8280	-4.05	5.12E-06	10752	-6.17	1.34E-11
8282	-4.31	4.02E-05	10755	4.38	4.30E-05
8283	-3.05	5.11E-03	10758	-13.58	3.34E-17

8284	-6.30	9.88E-04	10760	-4.55	1.77E-06
8285	3.29	4.92E-04	10763	-11.45	4.36E-10
8286	5.63	9.60E-03	10774	7.61	5.15E-09
8287	-6.94	9.48E-17	10775	-4.93	6.82E-08
8289	-3.58	9.46E-05	10777	-4.38	7.09E-03
8290	-3.74	6.66E-03	10778	7.29	6.94E-17
8293	-3.41	1.66E-04	10791	-4.83	1.12E-07
8300	-7.91	2.44E-13	10792	-4.10	5.43E-05
8308	6.46	1.89E-04	10798	3.80	2.15E-05
8312	2.88	1.40E-03	10802	8.13	2.56E-09
8318	-6.39	1.53E-11	10805	-6.42	3.78E-04
8319	2.71	2.01E-03	10807	-4.37	5.91E-06
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8332	-6.67	6.76E-09	10829	2.38	8.81E-03
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8340	-6.91	1.76E-07	10840	-3.87	1.43E-04
8341	3.56	1.16E-04	10848	-6.59	3.85E-05
8343	4.61	5.20E-06	10850	-5.14	1.47E-08
8345	2.60	5.95E-03	10865	4.56	1.62E-06
8346	-6.61	5.19E-03	10872	-12.04	1.34E-27
8348	2.84	9.87E-03	10888	-9.61	8.01E-22
8349	-3.18	5.00E-03	10889	-4.82	1.75E-08
8351	7.70	2.37E-19	10891	-3.70	4.09E-04
8353	-7.49	1.63E-16	10892	4.62	9.09E-08
8354	-4.59	1.71E-03	10897	4.82	1.00E-03
8358	-5.43	1.24E-07	10900	-3.88	4.79E-05
8359	3.22	6.09E-04	10902	2.71	9.11E-03
8361	4.81	2.03E-07	10908	5.10	1.17E-07
8362	-4.03	1.58E-03	10911	-4.99	4.88E-08
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8365	-5.63	4.25E-08	10917	-9.81	7.60E-17
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8368	-3.87	2.54E-05	10926	-12.47	1.61E-11
8374	-3.53	1.36E-04	10929	4.40	4.91E-04
8377	4.68	6.08E-07	10934	-4.68	1.06E-04
8383	3.60	2.60E-04	10940	-3.97	9.56E-06
8384	-9.37	1.42E-06	10942	6.61	4.74E-10
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8388	4.14	3.18E-06	10947	-4.81	9.75E-04
8389	-8.19	2.59E-05	10948	-3.62	2.03E-04
8391	-7.17	1.20E-14	10950	8.11	2.36E-18
8395	-6.28	2.47E-12	10951	3.98	8.79E-03
8397	4.77	3.97E-07	10954	5.14	1.99E-03
8398	5.28	5.67E-09	10965	6.27	9.88E-12
8402	-4.84	5.88E-05	10972	5.60	1.75E-03
8403	2.71	5.12E-03	10973	-9.40	2.81E-04
8420	6.57	1.25E-14	10977	-9.24	2.07E-20
8421	-8.69	1.75E-15	10980	7.65	4.17E-19
8423	-6.30	1.63E-10	10985	-9.93	1.40E-27
8425	-7.62	1.10E-16	10991	8.65	1.41E-15
8426	-5.81	4.99E-08	10992	-3.62	3.03E-04

8430	5.95	3.75E-04	11000	-7.30	1.07E-06
8431	-2.64	5.90E-03	11003	-5.85	1.15E-03
8433	-7.48	2.11E-13	11007	-5.77	1.06E-07
8434	-9.87	4.14E-05	11012	-7.50	1.10E-16
8436	-5.45	6.66E-07	11013	-4.42	7.73E-05
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8451	-5.84	2.13E-08	11029	5.24	1.74E-07
8454	-10.14	2.90E-28	11032	2.52	8.92E-03
8456	2.92	1.38E-03	11040	-3.15	1.15E-03
8457	7.72	9.45E-07	11047	-4.74	6.84E-07
8460	-5.11	1.09E-06	11048	-4.79	8.10E-03
8463	-6.63	2.73E-03	11060	4.65	3.59E-06
8466	8.60	1.11E-18	11065	5.62	3.03E-11
8467	6.56	2.05E-13	11075	4.61	3.79E-03
8470	-3.86	2.40E-05	11076	-3.10	8.41E-03
8473	3.18	2.87E-04	11083	-2.98	2.34E-03
8476	-2.79	1.92E-03	11085	-4.55	1.52E-06
8477	-2.77	2.06E-03	11087	4.69	5.12E-08
8478	-2.80	1.94E-03	11088	10.19	4.94E-35
8484	-4.85	8.66E-05	11090	5.02	3.97E-04
8485	2.85	1.07E-03	11095	3.90	6.26E-03
8486	4.30	1.73E-05	11096	9.81	2.97E-09
8488	5.03	1.19E-11	11097	-7.84	7.25E-17
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8490	-7.88	2.79E-05	11102	5.85	1.04E-10
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8503	-6.40	1.98E-06	11108	-3.42	2.95E-04
8508	-5.30	6.41E-09	11115	-4.74	6.00E-05
8509	4.28	5.41E-03	11116	-6.38	3.14E-05
8512	-8.41	2.28E-04	11127	-5.62	5.14E-09
8514	-4.76	1.20E-03	11139	-3.31	2.41E-04
8521	3.20	4.47E-04	11140	3.61	1.51E-04
8529	-7.93	8.04E-06	11142	4.36	5.43E-06
8532	-3.47	1.57E-03	11149	4.04	1.22E-05
8537	-3.05	6.77E-04	11151	3.95	5.66E-03
8539	5.90	5.27E-11	11153	-5.19	4.65E-08
8540	3.47	2.29E-04	11154	2.58	7.87E-03
8541	5.33	1.03E-03	11157	-4.58	5.69E-06
8546	2.82	1.60E-03	11159	11.27	2.69E-37
8547	-6.73	2.80E-05	11166	-9.08	2.80E-23
8550	-4.60	9.83E-07	11172	-6.39	4.30E-13
8554	-5.75	1.48E-04	11173	10.18	3.02E-26
8557	-9.12	1.53E-07	11177	8.50	9.66E-07
8559	8.31	5.69E-22	11181	-10.32	7.58E-09
8560	3.98	1.12E-05	11184	9.02	1.97E-22
8562	-3.73	3.64E-05	11186	-3.14	7.63E-04
8563	5.73	4.94E-07	11189	3.83	2.39E-05
8569	-6.51	1.21E-03	11191	-7.83	4.72E-19
8574	4.05	4.51E-05	11196	7.37	2.67E-17
8576	-12.27	1.00E-33	11201	-7.58	2.63E-09
8577	4.96	3.13E-08	11204	-4.28	3.03E-03
8578	4.26	1.99E-03	11206	-7.09	2.37E-14
8579	-8.14	1.47E-10	11210	5.35	3.15E-04
8580	-3.42	8.65E-03	11213	-9.21	9.01E-10
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8590	5.12	4.39E-06	11224	4.35	1.70E-05

8591	-4.24	3.74E-05	11233	-3.07	9.30E-03
8592	-3.61	3.19E-03	11236	-7.94	5.90E-10
8593	-5.05	6.51E-07	11239	-4.26	9.55E-04
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8614	-4.47	3.94E-05	11292	4.75	1.31E-05
8617	7.07	4.14E-08	11294	-7.03	3.41E-07
8622	4.82	1.25E-03	11302	4.70	2.26E-06
8624	5.27	5.94E-07	11303	-3.36	2.31E-04
8627	-4.64	9.18E-05	11306	-9.67	8.75E-31
8630	4.15	1.39E-03	11311	-6.64	9.33E-13
8636	6.96	4.07E-10	11312	6.51	2.49E-10
8645	2.30	8.97E-03	11314	-4.12	9.65E-06
8646	4.35	2.10E-04	11315	4.46	2.69E-04
8647	-4.69	2.35E-05	11316	-6.00	1.08E-08
8650	-7.41	6.71E-07	11321	-6.95	2.02E-11
8651	-5.64	1.69E-05	11323	-7.96	6.41E-10
8654	4.05	2.32E-04	11337	7.27	1.23E-16
8656	2.87	3.34E-03	11340	10.78	4.53E-33
8658	3.99	7.81E-03	11341	7.17	4.12E-04
8659	-4.37	5.45E-03	11343	2.60	5.81E-03
8662	-10.03	1.05E-05	11344	5.13	5.44E-09
8664	8.69	1.78E-12	11348	-7.19	7.54E-07
8667	-7.23	1.50E-03	11352	5.86	4.77E-08
8668	-4.72	5.39E-05	11355	-9.65	3.93E-14
8673	2.94	1.97E-03	11356	-4.72	6.91E-05
8674	-3.86	1.17E-08	11359	-8.44	1.37E-22
8675	-5.86	1.75E-09	11360	4.43	6.47E-06
8676	-8.93	1.92E-22	11362	-8.68	6.12E-06
8679	4.22	1.47E-06	11374	-3.70	7.15E-05
8683	-11.51	4.65E-21	11382	-6.46	1.78E-11
8685	-6.11	4.78E-04	11384	-6.35	3.04E-11
8686	2.54	2.45E-03	11386	-13.40	3.82E-17
8688	-2.92	3.23E-03	11390	-5.96	3.40E-08
8689	2.66	5.45E-03	11396	4.54	3.66E-07
8690	-6.48	3.17E-09	11399	-3.64	3.01E-04
8693	-14.00	2.48E-32	11400	-3.25	5.53E-03
8694	6.41	5.37E-09	11405	4.83	2.91E-05
8699	8.24	1.36E-20	11406	-4.56	1.27E-05
8700	9.76	7.93E-18	11408	-8.38	8.51E-14
8704	-6.49	2.33E-05	11410	-3.19	6.13E-04
8707	-9.43	1.20E-08	11412	4.65	1.27E-06
8708	-9.51	1.45E-08	11413	8.28	2.39E-06
8710	-12.17	3.37E-20	11415	-12.08	1.52E-09
8715	-7.11	4.52E-14	11417	7.83	1.47E-16
8717	-6.83	1.96E-04	11422	-5.28	3.30E-05
8720	-3.45	3.91E-05	11425	-2.85	3.43E-03
8724	7.00	5.90E-10	11427	-7.45	9.09E-07
8728	-13.74	5.54E-32	11436	5.70	1.80E-03
8729	-6.70	2.09E-04	11439	4.71	3.83E-03

8731	3.14	4.79E-04	11440	-5.74	4.85E-04
8732	2.66	3.77E-03	11443	-3.59	4.12E-04
8733	-7.26	2.05E-13	11444	4.45	1.72E-06
8740	4.83	8.79E-11	11446	4.02	9.60E-05
8744	-4.25	3.52E-05	11450	-6.73	1.84E-10
8747	2.63	3.38E-03	11456	2.61	5.94E-03
8749	4.95	3.41E-06	11462	10.16	3.17E-19
8751	-3.95	2.63E-06	11467	-2.64	2.96E-03
8752	6.42	1.87E-04	11468	-5.47	2.24E-03
8756	3.88	5.14E-06	11471	5.32	7.54E-09
8757	-5.69	2.41E-08	11480	-2.94	2.87E-03
8759	-9.34	2.75E-06	11485	-8.79	2.30E-10
8764	-6.77	1.42E-04	11488	4.81	8.68E-04
8767	-6.47	7.74E-09	11489	6.94	1.24E-05
8773	-6.36	4.45E-11	11492	-5.20	1.77E-08
8774	4.43	1.22E-06	11495	7.58	3.26E-19
8782	2.62	3.57E-03	11496	-3.35	4.79E-04
8785	-9.24	3.25E-04	11497	9.21	1.23E-18
8786	-3.16	7.69E-04	11499	7.58	4.60E-15
8792	-10.51	1.55E-12	11500	4.54	4.73E-03
8793	3.32	1.84E-03	11501	2.41	8.83E-03
8795	-3.34	7.50E-05	11515	-6.21	9.48E-07
8796	8.92	7.69E-06	11520	-8.66	1.48E-07
8799	3.55	8.45E-04	11521	4.96	1.90E-04
8800	7.53	1.33E-09	11547	6.49	6.20E-10
8801	-7.60	1.93E-08	11549	-9.64	4.16E-14
8805	-7.66	6.30E-18	11553	9.00	5.32E-22
8808	5.35	2.92E-09	11556	9.83	1.81E-19
8809	-2.95	8.04E-03	11569	7.91	3.11E-17
8810	-2.39	6.19E-03	11574	-8.36	3.41E-06
8812	5.86	1.03E-03	11586	-4.85	3.37E-03
8814	-3.56	2.79E-03	11591	3.04	1.05E-03
8815	2.60	4.07E-03	11593	4.46	5.60E-05
8818	-6.44	3.85E-03	11594	8.04	6.68E-19
8820	-2.80	3.38E-03	11600	-5.38	3.46E-09
8822	-6.83	8.54E-14	11601	-5.06	2.52E-09
8824	-6.80	5.33E-06	11602	3.83	6.57E-04
8825	-6.17	7.85E-12	11603	5.82	2.72E-07
8832	-12.03	3.50E-10	11605	-9.57	5.01E-25
8833	-1.81	4.44E-03	11607	7.68	2.57E-14
8834	4.79	1.44E-05	11618	5.31	3.56E-08
8838	-6.67	4.73E-07	11619	5.18	1.20E-08
8839	-12.26	1.38E-12	11622	3.99	1.05E-05
8840	-3.10	2.35E-03	11623	2.52	5.82E-03
8841	-8.18	1.66E-12	11638	-6.56	8.96E-05
8843	-2.50	8.15E-03	11639	-4.07	4.53E-04
8846	-7.01	8.51E-06	11641	4.94	5.31E-06
8847	-5.94	1.59E-10	11647	-8.41	6.30E-06
8848	-11.74	8.68E-38	11649	-4.04	1.06E-05
8849	-13.17	2.84E-20	11652	-5.68	3.72E-05
8851	-5.06	4.83E-06	11659	-4.14	3.67E-06
8854	-10.95	7.11E-07	11680	-5.09	1.01E-08
8855	-4.88	7.12E-07	11684	7.25	5.78E-14
8857	6.03	4.90E-11	11686	7.58	2.67E-17
8863	-4.41	2.69E-06	11692	-6.72	9.06E-06
8865	-6.59	6.33E-11	11695	-3.70	4.38E-03
8867	5.14	1.52E-08	11696	-6.58	1.04E-03
8870	-3.79	3.14E-04	11701	-8.85	3.41E-18

8874	-3.75	3.63E-05	11705	5.87	2.94E-09
8875	5.17	4.07E-09	11714	-5.13	2.82E-07
8877	-3.41	7.75E-04	11719	-3.87	1.52E-03
8883	-10.69	4.43E-06	11721	3.06	5.92E-04
8888	3.30	1.90E-04	11722	-4.08	5.15E-06
8893	4.51	2.79E-07	11724	-3.95	2.25E-05
8898	-8.20	2.51E-21	11726	4.25	2.26E-06
8899	-6.21	4.87E-12	11728	-7.95	2.04E-09
8908	-9.27	2.19E-25	11731	2.87	2.17E-03
8909	-6.60	1.97E-03	11732	2.57	7.41E-03
8910	7.06	8.81E-15	11742	4.57	8.99E-04
8911	7.16	1.64E-15	11744	-4.38	1.65E-04
8915	-5.51	5.46E-07	11748	-3.87	1.28E-03
8916	-5.56	4.93E-07	11749	4.41	5.99E-03
8919	-8.53	4.88E-15	11756	3.19	4.88E-04
8921	6.47	1.63E-07	11757	-6.39	9.36E-10
8922	-5.93	2.62E-11	11758	-4.16	1.69E-03
8927	-2.89	2.25E-03	11760	-3.90	1.09E-04
8928	-8.99	5.24E-18	11767	-6.44	5.79E-04
8930	5.48	1.84E-05	11772	6.97	1.56E-08
8933	-3.59	8.54E-05	11776	-4.88	2.40E-07
8936	6.82	3.91E-04	11780	5.60	2.46E-08
8938	4.94	1.89E-09	11788	-10.69	1.29E-08
8941	-7.09	2.24E-04	11801	-4.74	6.98E-03
8944	3.01	8.40E-04	11803	-4.72	5.05E-05
8950	-4.10	9.87E-03	11809	-3.58	1.36E-03
8952	6.02	8.24E-09	11815	5.41	1.38E-07
8954	9.29	1.55E-26	11818	-8.55	5.84E-09
8955	4.61	1.78E-07	11819	-5.24	1.14E-04
8957	8.00	7.12E-14	11825	4.25	3.41E-06
8959	-7.48	3.61E-09	11833	-7.12	1.06E-08
8960	-4.77	1.95E-06	11839	-5.66	1.93E-06
8963	-8.43	1.35E-09	11845	3.31	8.57E-04
8965	-2.97	1.63E-03	11847	3.13	1.23E-03
8968	3.61	4.33E-03	11858	3.20	1.34E-04
8970	-6.06	2.43E-12	11862	9.55	1.11E-09
8971	3.60	2.02E-06	11863	-4.83	1.88E-08
8980	-4.74	5.33E-07	11864	-3.95	1.37E-05
8981	-11.12	3.63E-30	11866	-5.38	8.96E-09
8985	-14.55	7.95E-12	11873	3.65	1.43E-04
8987	-4.40	5.23E-06	11875	-11.10	8.49E-11
8997	6.24	9.12E-10	11879	-3.33	3.63E-04
8999	3.99	6.06E-04	11888	-10.59	5.26E-12
9001	-3.77	2.61E-04	11890	-6.03	1.35E-12
9003	5.58	8.21E-10	11895	8.27	5.30E-07
9006	2.40	9.51E-03	11896	-7.67	2.00E-16
9010	-2.70	2.70E-03	11897	4.46	5.03E-06
9011	5.65	4.00E-11	11898	-8.94	6.43E-21
9015	-5.28	5.57E-04	11900	-10.67	5.53E-16
9027	-4.13	7.66E-06	11902	-8.89	4.80E-05
9029	4.02	9.72E-03	11908	5.14	1.91E-08
9030	5.97	3.73E-11	11915	-7.27	5.45E-15
9031	2.45	6.86E-03	11920	2.75	6.21E-03
9032	3.39	9.89E-03	11929	4.05	2.43E-08
9034	2.84	7.60E-03	11931	3.78	3.16E-05
9040	-6.20	1.01E-10	11934	-4.05	2.23E-05
9043	-8.22	7.35E-07	11935	4.51	3.42E-05

9046	-11.92	2.93E-23	11936	-4.84	1.58E-08
9049	-9.85	3.56E-06	11940	-7.29	2.53E-15
9050	-10.46	8.02E-20	11945	2.59	6.57E-03
9052	7.34	7.85E-15	11947	-7.44	4.65E-17
9054	-4.25	1.08E-03	11948	-3.71	3.99E-03
9055	-6.10	5.44E-09	11950	-3.35	8.75E-07
9057	-5.73	1.53E-12	11961	-7.91	1.20E-16
9059	-4.33	1.96E-03	11963	4.55	3.00E-07
9063	-6.19	8.99E-12	11966	3.77	2.69E-03
9064	-6.08	1.05E-11	11967	4.42	1.11E-03
9065	7.13	1.85E-09	11976	-4.15	1.59E-03
9068	6.21	7.07E-09	11977	-5.11	1.02E-08
9069	7.41	1.98E-05	11982	-6.37	8.79E-05
9073	5.08	4.06E-06	11983	7.39	6.53E-04
9082	-6.19	3.74E-11	11990	5.12	9.59E-03
9084	-9.54	3.03E-16	11998	5.59	6.67E-05
9087	-5.97	2.71E-13	11999	4.47	1.97E-05
9089	-7.52	2.65E-13	12000	-7.54	1.39E-15
9095	-11.55	6.59E-08	12010	6.11	1.49E-08
9096	-4.18	5.24E-06	12011	-3.80	6.20E-04
9097	-5.15	2.91E-04	12012	-6.26	8.32E-05
9101	2.95	6.82E-04	12013	-5.14	5.33E-08
9103	4.42	5.16E-04	12015	4.21	1.58E-03
9110	-9.42	6.99E-08	12022	-8.55	4.82E-09
9113	-7.78	9.45E-09	12032	11.29	8.49E-30
9122	4.80	3.68E-06	12036	5.06	2.17E-08
9125	-10.63	4.86E-11	12043	-2.83	3.86E-03
9127	-9.50	3.06E-25	12045	-9.07	2.42E-06
9129	11.36	6.86E-41	12058	3.86	1.22E-05
9132	-5.33	1.50E-10	12060	5.94	8.29E-07
9135	2.81	3.94E-03	12064	2.62	4.20E-03
9136	-6.27	4.05E-03	12065	-6.27	8.09E-05
9138	2.50	5.11E-03	12066	8.05	3.24E-18
9140	4.75	2.78E-05	12067	-3.66	4.49E-03
9142	4.50	1.55E-06	12073	-9.34	1.84E-12
9150	3.17	2.89E-04	12076	5.31	5.93E-09
9159	3.57	1.74E-06	12086	-3.66	1.15E-04
9161	-3.92	1.10E-05	12110	-9.68	6.13E-08
9165	4.51	5.43E-12	12117	4.48	8.61E-04
9166	-6.61	9.53E-13	12118	-6.56	1.04E-04
9173	7.24	1.79E-14	12121	6.04	2.13E-10
9178	-6.69	1.42E-05	12126	4.03	4.44E-06
9179	-6.40	3.14E-05	12130	-12.32	7.76E-07
9182	-3.44	1.64E-04	12132	2.59	4.96E-03
9183	-8.31	2.30E-21	12137	3.32	8.77E-04
9184	4.75	2.16E-07	12151	-4.66	6.39E-04
9187	-3.88	9.56E-08	12154	-5.70	1.77E-10
9191	-2.47	9.80E-03	12162	-3.31	1.70E-04
9192	-7.07	9.03E-14	12166	-9.71	1.68E-11
9193	-7.52	7.64E-04	12168	2.88	3.93E-03
9194	5.08	1.53E-07	12170	-7.43	1.08E-09
9195	-6.43	3.89E-03	12174	-11.90	3.26E-43
9196	-5.82	2.71E-08	12175	4.64	4.76E-07
9200	-2.84	8.51E-03	12186	8.14	3.29E-19
9201	5.36	6.02E-08	12187	-4.33	2.41E-06
9204	-3.87	6.30E-03	12190	-7.07	1.94E-13
9207	3.57	1.02E-04	12194	-7.64	4.53E-07

9208	-4.11	3.87E-03	12200	5.50	1.36E-07
9209	4.62	4.67E-04	12207	-6.50	3.44E-06
9210	3.41	3.73E-04	12208	2.84	1.46E-03
9213	7.24	1.42E-12	12210	2.71	8.08E-03
9216	-2.47	6.25E-03	12214	4.28	2.01E-04
9219	-2.73	2.91E-03	12215	-7.44	2.69E-05
9221	7.89	1.35E-04	12219	-3.17	5.60E-04
9222	6.94	2.09E-06	12228	-6.78	7.55E-06
9224	-6.77	4.03E-07	12230	8.90	7.98E-08
9225	4.62	1.95E-11	12232	7.92	1.87E-18
9226	-4.42	4.93E-03	12233	-3.09	4.59E-03
9227	-2.95	5.94E-03	12235	-8.00	5.93E-10
9228	2.50	3.13E-03	12241	-11.22	1.59E-12
9232	-5.74	4.47E-07	12242	-6.44	2.28E-13
9237	-6.49	1.11E-14	12245	-5.08	7.45E-08
9239	4.79	1.97E-05	12249	4.53	1.37E-06
9241	-4.78	1.09E-06	12250	-6.14	1.41E-09
9244	-4.41	1.09E-06	12260	-3.31	9.86E-03
9245	3.90	5.83E-03	12261	-3.77	1.49E-04
9248	7.25	2.76E-12	12275	3.36	4.79E-04
9255	-5.12	1.94E-03	12280	4.07	3.75E-06
9257	3.49	9.29E-03	12284	4.68	2.65E-07
9259	-5.60	9.39E-04	12286	4.80	4.05E-04
9260	-5.31	9.03E-09	12287	-4.77	1.17E-03
9264	3.37	1.22E-04	12288	8.78	9.04E-20
9265	4.92	3.28E-03	12291	9.74	3.27E-31
9267	-4.01	1.03E-04	12292	5.81	6.74E-11
9269	-6.47	8.63E-12	12293	-10.84	1.61E-13
9272	3.40	3.17E-03	12294	-7.64	4.58E-07
9273	-4.11	7.00E-05	12295	-5.61	3.02E-06
9281	-8.69	1.94E-19	12296	4.18	9.09E-06
9284	-4.49	3.52E-08	12304	-6.67	3.39E-13
9288	-6.36	1.91E-11	12307	3.60	5.95E-03
9289	-7.30	3.22E-06	12308	3.40	5.94E-04
9290	-4.80	2.84E-07	12310	10.53	2.31E-10
9291	5.14	4.45E-03	12322	4.06	4.22E-07
9293	-4.33	7.89E-06	12327	-7.92	2.95E-15
9294	-4.36	5.23E-06	12330	2.81	4.02E-03
9300	5.89	1.01E-10	12334	-4.03	3.88E-05
9302	4.97	4.56E-05	12336	8.66	1.33E-22
9306	4.10	2.66E-04	12343	-9.39	4.81E-08
9307	4.46	3.59E-05	12344	4.68	2.41E-07
9311	-4.10	8.73E-06	12356	-6.12	2.11E-09
9314	5.78	3.05E-06	12358	-8.36	1.16E-20
9315	-4.12	1.43E-05	12365	-5.03	1.55E-07
9318	-2.55	5.03E-03	12368	6.65	6.66E-16
9319	3.21	2.96E-04	12371	3.88	1.28E-04
9326	-6.64	2.66E-07	12376	5.80	2.63E-09
9327	-7.90	5.09E-07	12381	-5.78	7.06E-06
9329	-5.75	2.02E-11	12391	-4.53	2.29E-03
9330	-3.91	9.09E-05	12393	6.95	6.09E-15
9336	2.85	4.60E-03	12394	2.59	4.76E-03
9341	-2.32	9.93E-03	12409	6.15	2.28E-12
9347	-9.24	1.29E-25	12411	8.94	1.44E-08
9348	-2.86	6.62E-06	12412	-4.09	8.04E-06
9349	-8.09	1.51E-09	12415	5.38	3.29E-04
9352	3.31	5.24E-04	12423	-4.88	6.20E-07

9353	3.26	6.04E-04	12433	-4.15	2.88E-06
9355	7.03	8.16E-16	12443	5.02	1.87E-07
9360	-5.21	1.25E-05	12444	-6.24	5.69E-05
9361	-2.50	6.89E-03	12446	4.97	9.89E-04
9362	-2.75	5.03E-03	12456	2.88	8.56E-04
9367	-6.75	7.83E-08	12457	-3.82	1.70E-03
9368	9.82	5.04E-31	12458	3.21	4.39E-04
9369	4.89	2.94E-08	12460	-3.52	6.12E-04
9371	-4.48	2.72E-05	12462	8.29	4.21E-21
9373	5.36	1.32E-08	12465	-13.78	2.01E-17
9376	6.53	2.47E-09	12466	-5.11	1.95E-04
9379	4.20	8.52E-04	12469	-7.45	3.78E-06
9381	-5.05	3.57E-07	12471	-3.92	3.38E-04
9383	-8.69	1.76E-21	12477	-9.63	4.42E-14
9386	-4.53	1.11E-05	12482	-4.48	1.95E-03
9388	-10.06	9.88E-11	12483	4.44	2.08E-05
9390	-6.64	3.29E-06	12486	5.20	2.38E-03
9391	-5.09	2.12E-03	12487	-5.24	3.76E-03
9394	-10.32	1.22E-16	12489	-5.04	7.03E-05
9397	-6.96	8.67E-12	12491	3.15	5.61E-04
9399	-6.63	2.71E-03	12493	-6.56	1.79E-12
9402	-8.80	3.54E-15	12496	7.18	4.89E-09
9405	-5.48	8.75E-06	12497	5.16	8.39E-03
9406	-4.29	2.03E-11	12498	6.85	1.24E-15
9413	-3.97	3.99E-03	12499	4.22	4.97E-06
9417	3.88	2.58E-03	12506	5.40	3.86E-05
9421	-5.80	2.36E-06	12509	-9.02	6.88E-13
9423	-4.30	2.97E-05	12510	-6.21	2.13E-08
9424	-8.01	4.88E-13	12518	3.18	2.84E-04
9430	-3.49	1.46E-04	12519	-5.72	3.33E-08
9434	-3.16	1.05E-03	12521	8.33	1.02E-20
9437	-11.56	1.37E-09	12522	-3.36	3.81E-04
9444	4.74	6.37E-03	12524	8.00	1.36E-17
9445	-3.57	2.15E-03	12529	5.05	6.45E-08
9447	-7.27	3.76E-05	12534	-4.83	8.39E-05
9448	-5.09	7.22E-08	12536	-6.65	1.40E-12
9449	4.18	3.33E-04	12540	4.68	2.25E-03
9452	-9.07	2.19E-12	12544	7.56	8.13E-13
9453	2.77	7.85E-03	12546	4.21	2.42E-06
9458	-6.62	1.38E-03	12547	-4.79	4.52E-07
7238	-3.29	3.73E-03	10930	1.94	5.00E-02
7239	-11.63	8.77E-11	11080	-5.15	5.00E-02
7245	3.06	1.70E-06	11532	5.19	5.00E-02
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7316	-5.74	3.12E-07	15154	5.15	5.00E-02
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9534	-5.41	1.07E-04	2390	-7.60	2.78E-11
9538	-5.72	9.84E-06	2394	-5.60	7.06E-09
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9542	-6.55	2.49E-03	2399	-4.00	3.48E-05
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9587	6.17	3.17E-11	2442	5.90	1.21E-04
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0.11	0.11
0.19	0.19
0.08	0.08
0.14	0.14
-0.19	-0.19
0.07	0.07
0.10	0.10
-0.06	-0.06
-0.15	-0.15
-0.13	-0.13
-0.19	-0.19
-0.15	-0.15
-0.21	-0.21
0.07	0.07
0.13	0.13
-0.18	-0.18
0.14	0.14
-0.09	-0.09
0.12	0.12
-0.12	-0.12
0.10	0.10
-0.12	-0.12
0.14	0.14
-0.07	-0.07
-0.15	-0.15
0.11	0.11
-0.24	-0.24
0.09	0.09
-0.11	-0.11
0.10	0.10
-0.19	-0.19
0.12	0.12

-0.15	-0.15
-0.15	-0.15
-0.12	-0.12
-0.15	-0.15
-0.14	-0.14
0.10	0.10
-0.15	-0.15
-0.22	-0.22
0.07	0.07
-0.14	-0.14
-0.07	-0.07
-0.14	-0.14
-0.21	-0.21
-0.27	-0.27
0.08	0.08
0.15	0.15
-0.15	-0.15
0.13	0.13
-0.08	-0.08
0.07	0.07
-0.17	-0.17
-0.14	-0.14
-0.20	-0.20
0.11	0.11
-0.26	-0.26
-0.14	-0.14
-0.15	-0.15
-0.09	-0.09
0.10	0.10
-0.19	-0.19
0.10	0.10
0.12	0.12
0.09	0.09
-0.07	-0.07
0.09	0.09
-0.20	-0.20
-0.17	-0.17
-0.09	-0.09
0.07	0.07
-0.10	-0.10
-0.12	-0.12
-0.13	-0.13
-0.13	-0.13
-0.20	-0.20
-0.14	-0.14
-0.11	-0.11
0.24	0.24
0.08	0.08
-0.27	-0.27
-0.24	-0.24
-0.21	-0.21
0.15	0.15
-0.20	-0.20
-0.09	-0.09
-0.11	-0.11
0.08	0.08
-0.08	-0.08
0.14	0.14

0.15	0.15
-0.10	-0.10
-0.18	-0.18
0.09	0.09
-0.16	-0.16
0.16	0.16
0.13	0.13
-0.15	-0.15
-0.09	-0.09
0.07	0.07
-0.24	-0.24
-0.12	-0.12
-0.21	-0.21
0.10	0.10
0.09	0.09
-0.25	-0.25
0.09	0.09
0.16	0.16
-0.10	-0.10
0.10	0.10
-0.15	-0.15
0.08	0.08
-0.18	-0.18
-0.14	-0.14
-0.14	-0.14
0.10	0.10
-0.10	-0.10
0.10	0.10
0.13	0.13
-0.19	-0.19
0.09	0.09
0.15	0.15
0.08	0.08
-0.24	-0.24
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-0.21	-0.21
-0.13	-0.13
-0.12	-0.12
-0.08	-0.08
0.13	0.13
0.12	0.12
0.10	0.10
-0.17	-0.17
-0.07	-0.07
-0.16	-0.16
-0.21	-0.21
0.07	0.07
0.11	0.11
0.15	0.15
-0.18	-0.18
0.23	0.23
0.18	0.18
-0.16	-0.16
0.07	0.07
-0.11	-0.11
-0.18	-0.18
-0.11	-0.11

0.10	0.10
0.08	0.08
-0.20	-0.20
0.09	0.09
0.10	0.10
-0.08	-0.08
-0.08	-0.08
0.13	0.13
0.11	0.11
-0.14	-0.14
-0.11	-0.11
0.15	0.15
-0.26	-0.26
0.14	0.14
0.15	0.15
0.10	0.10
-0.24	-0.24
-0.17	-0.17
0.09	0.09
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0.17	0.17
0.15	0.15
-0.15	-0.15
-0.13	-0.13
-0.19	-0.19
0.09	0.09
-0.16	-0.16
-0.09	-0.09
0.14	0.14
0.19	0.19
-0.09	-0.09
0.09	0.09
0.08	0.08
0.10	0.10
0.07	0.07
0.08	0.08
-0.14	-0.14
-0.09	-0.09
-0.17	-0.17
0.09	0.09
0.10	0.10
0.12	0.12
-0.31	-0.31
0.10	0.10
-0.08	-0.08
-0.08	-0.08
-0.16	-0.16
0.23	0.23
0.15	0.15
0.08	0.08
-0.25	-0.25
-0.17	-0.17
-0.28	-0.28
-0.15	-0.15
0.17	0.17
0.14	0.14
0.11	0.11

-0.23	-0.23
-0.09	-0.09
0.17	0.17
0.10	0.10
0.08	0.08
-0.23	-0.23
0.15	0.15
-0.13	-0.13
-0.12	-0.12
-0.11	-0.11
-0.12	-0.12
-0.10	-0.10
0.17	0.17
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0.21	0.21
-0.19	-0.19
0.07	0.07
0.13	0.13
-0.09	-0.09
-0.08	-0.08
-0.07	-0.07
0.09	0.09
0.12	0.12
0.10	0.10
-0.15	-0.15
-0.07	-0.07
0.12	0.12
0.09	0.09
-0.14	-0.14
-0.11	-0.11
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-0.15	-0.15
-0.16	-0.16
-0.10	-0.10
-0.12	-0.12
-0.12	-0.12
0.10	0.10
-0.25	-0.25
-0.12	-0.12
-0.12	-0.12
0.11	0.11
-0.14	-0.14
0.18	0.18
-0.14	-0.14
-0.09	-0.09
-0.12	-0.12
-0.21	-0.21
-0.12	-0.12
0.12	0.12
-0.12	-0.12
0.08	0.08
0.18	0.18
-0.19	-0.19
0.09	0.09
0.13	0.13

-0.07	-0.07
-0.16	-0.16
0.25	0.25
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-0.11	-0.11
-0.07	-0.07
0.08	0.08
0.10	0.10
-0.15	-0.15
-0.08	-0.08
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0.21	0.21
-0.20	-0.20
-0.15	-0.15
-0.07	-0.07
0.12	0.12
0.08	0.08
0.15	0.15
-0.09	-0.09
0.15	0.15
0.07	0.07
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0.10	0.10
0.10	0.10
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0.15	0.15
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-0.18	-0.18
-0.25	-0.25
0.13	0.13
0.10	0.10
-0.14	-0.14
-0.08	-0.08
-0.21	-0.21
-0.19	-0.19
-0.09	-0.09
-0.16	-0.16
0.10	0.10
-0.13	-0.13
0.07	0.07
-0.16	-0.16
-0.16	-0.16
-0.19	-0.19
0.12	0.12
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0.08	0.08
0.11	0.11
0.07	0.07
-0.08	-0.08
0.15	0.15
-0.13	-0.13
0.08	0.08
-0.08	-0.08
-0.18	-0.18
-0.07	-0.07

0.08	0.08
0.15	0.15
-0.21	-0.21
0.17	0.17
-0.16	-0.16
0.13	0.13
0.08	0.08
-0.18	-0.18
-0.08	-0.08
-0.10	-0.10
0.09	0.09
-0.13	-0.13
0.14	0.14
0.11	0.11
-0.20	-0.20
0.15	0.15
0.15	0.15
0.09	0.09
0.17	0.17
-0.11	-0.11
-0.11	-0.11
0.12	0.12
-0.17	-0.17
-0.15	-0.15
-0.23	-0.23
0.07	0.07
0.11	0.11
0.08	0.08
0.13	0.13
-0.21	-0.21
-0.26	-0.26
-0.14	-0.14
-0.12	-0.12
0.09	0.09
0.12	0.12
0.08	0.08
-0.15	-0.15
0.14	0.14
0.12	0.12
-0.07	-0.07
-0.16	-0.16
-0.18	-0.18
0.12	0.12
-0.13	-0.13
-0.09	-0.09
-0.10	-0.10
-0.08	-0.08
0.12	0.12
-0.11	-0.11
-0.16	-0.16
-0.19	-0.19
-0.19	-0.19
0.11	0.11
-0.15	-0.15
-0.11	-0.11
-0.23	-0.23
0.13	0.13
-0.11	-0.11

-0.09	-0.09
0.12	0.12
-0.17	-0.17
0.15	0.15
-0.13	-0.13
-0.27	-0.27
0.07	0.07
-0.25	-0.25
-0.07	-0.07
0.09	0.09
-0.16	-0.16
-0.17	-0.17
0.14	0.14
0.12	0.12
0.12	0.12
0.09	0.09
0.10	0.10
0.12	0.12
0.07	0.07
0.11	0.11
0.16	0.16
-0.18	-0.18
-0.16	-0.16
0.10	0.10
0.10	0.10
-0.20	-0.20
-0.15	-0.15
-0.15	-0.15
-0.33	-0.33
-0.09	-0.09
-0.15	-0.15
-0.37	-0.37
-0.07	-0.07
-0.13	-0.13
-0.15	-0.15
-0.09	-0.09
-0.09	-0.09
-0.16	-0.16
-0.24	-0.24
0.07	0.07
-0.18	-0.18
-0.11	-0.11
0.10	0.10
-0.12	-0.12
0.13	0.13
-0.12	-0.12
0.13	0.13
-0.07	-0.07
0.08	0.08
-0.08	-0.08
0.07	0.07
-0.17	-0.17
-0.09	-0.09
0.08	0.08
-0.14	-0.14
-0.14	-0.14
-0.13	-0.13
0.13	0.13

0.09	0.09
-0.18	-0.18
-0.22	-0.22
0.11	0.11
0.10	0.10
-0.21	-0.21
0.17	0.17
0.19	0.19
0.15	0.15
-0.15	-0.15
-0.15	-0.15
-0.16	-0.16
0.14	0.14
0.12	0.12
0.07	0.07
-0.13	-0.13
-0.09	-0.09
0.08	0.08

TABLE 2 - GENETIC MARKERS FOR FAT YIELD

A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
2	12.2	1.14E-06	246	-5.9	2.47E-04	531	7.3	8.84E-07	865	6.8	1.04E-04	1152	7.5	4.10E-04	1397	6.2	4.27E-07
4	12.3	6.83E-07	255	8.9	1.90E-03	534	-5.2	9.24E-05	868	-4.0	4.94E-03	1161	5.0	5.59E-05	1401	-7.6	1.34E-11
13	3.7	7.53E-03	257	6.5	3.51E-05	538	-4.3	6.32E-05	870	7.8	7.02E-11	1163	6.0	3.23E-03	1402	-3.7	3.19E-03
21	3.1	9.15E-03	258	-4.1	7.08E-04	540	-5.0	1.45E-05	876	-3.8	6.19E-04	1167	5.5	2.07E-06	1406	-5.6	3.56E-06
35	-7.3	5.27E-11	259	7.7	5.72E-03	550	5.4	6.27E-03	882	-8.3	6.79E-10	1170	-4.7	4.95E-07	1409	3.9	3.14E-05
36	-7.6	3.84E-06	265	-5.7	5.56E-06	558	-5.4	5.73E-03	883	-5.6	2.38E-04	1171	3.2	9.16E-03	1410	-5.4	2.27E-06
38	-11.0	3.62E-07	270	3.2	2.87E-03	559	6.4	1.20E-08	884	5.2	7.29E-04	1172	-4.0	1.18E-03	1415	-3.4	3.80E-03
39	-8.5	1.09E-04	273	5.6	2.46E-04	561	-7.6	6.80E-06	890	-4.4	1.50E-04	1178	3.7	1.45E-04	1419	-4.4	1.67E-04
52	-4.0	4.55E-04	282	4.0	6.66E-04	565	4.2	5.13E-04	901	-6.7	6.36E-09	1182	4.1	8.11E-04	1420	-4.0	3.02E-04
54	4.3	4.13E-04	298	3.2	7.97E-03	569	-4.9	2.47E-05	905	3.7	1.56E-03	1183	4.5	2.53E-04	1422	-4.1	8.38E-03
56	-3.8	3.89E-03	305	5.0	3.90E-05	570	-5.7	1.18E-06	906	10.1	1.93E-04	1185	3.7	3.90E-03	1429	-6.1	7.20E-08
62	-5.5	3.90E-03	308	4.2	1.94E-03	571	4.5	1.52E-04	913	-5.6	3.84E-05	1193	-5.2	2.48E-04	1433	3.7	8.24E-04
63	-4.4	4.27E-05	312	-3.3	2.61E-03	574	-4.2	3.24E-03	919	6.5	6.77E-04	1194	-4.6	1.19E-03	1435	4.3	2.00E-04
65	-4.8	1.61E-03	315	-4.8	8.30E-04	583	-4.1	2.29E-04	928	6.4	2.19E-08	1195	4.9	2.66E-05	1439	4.7	9.76E-05
66	-4.1	3.12E-04	318	-5.4	8.28E-07	588	-7.1	4.60E-05	929	-5.3	9.09E-03	1198	6.7	1.02E-03	1443	5.1	6.60E-06
67	6.2	1.02E-07	321	5.5	2.34E-03	592	4.0	1.43E-03	934	-4.0	4.04E-04	1202	8.5	5.20E-03	1444	5.1	7.23E-06
71	-5.4	7.43E-05	323	-6.8	2.75E-04	594	-10.6	4.12E-20	939	6.4	3.77E-06	1212	6.7	1.83E-03	1450	3.0	5.22E-03
73	5.9	1.18E-03	328	-6.7	8.27E-06	595	-6.7	9.53E-07	949	-7.1	3.18E-09	1213	5.4	9.18E-06	1451	6.6	2.75E-05
77	-6.3	2.43E-08	330	-8.0	1.68E-06	614	-4.8	1.10E-04	950	-2.3	4.45E-03	1214	4.1	7.60E-04	1464	4.0	3.56E-04
80	-2.7	9.66E-03	331	-3.1	8.31E-03	615	4.8	2.84E-05	954	6.8	6.83E-09	1222	-3.8	9.00E-04	1468	4.7	4.01E-05
86	9.3	8.15E-05	336	-6.0	2.17E-07	617	-3.9	2.16E-03	957	4.3	6.61E-03	1226	-4.6	7.68E-04	1472	-3.6	1.99E-03
97	-6.1	1.78E-07	337	6.5	1.52E-07	620	6.6	6.93E-09	958	4.3	6.34E-03	1229	-6.3	1.40E-07	1475	-5.5	1.88E-06
99	5.0	7.12E-06	345	-7.5	1.42E-06	621	4.5	1.93E-03	962	5.8	1.48E-04	1237	-7.3	2.97E-08	1491	4.8	2.91E-04
101	-4.8	1.77E-05	354	-7.8	6.06E-08	629	8.9	3.74E-11	963	-4.8	4.87E-03	1238	3.1	7.43E-03	1495	6.4	4.91E-04
111	3.8	8.76E-03	361	-6.3	4.23E-03	633	4.6	2.69E-03	964	8.7	1.65E-06	1239	-6.4	1.70E-06	1498	-4.2	6.39E-04
114	-5.1	1.43E-04	366	4.9	4.24E-04	637	-3.4	5.23E-03	972	6.1	1.12E-03	1244	8.2	1.18E-13	1500	-4.6	9.69E-04
117	-4.0	1.63E-03	367	-3.7	1.41E-03	644	8.6	2.32E-14	979	5.3	2.56E-06	1251	8.5	7.92E-09	1503	-5.2	1.58E-05
120	-4.5	5.00E-03	369	8.8	7.54E-08	649	5.0	5.62E-05	982	4.8	5.16E-04	1252	-6.5	8.43E-06	1505	8.3	7.92E-07
126	7.3	7.15E-03	372	-7.5	4.50E-05	652	5.9	8.69E-05	984	5.9	5.84E-06	1255	2.8	5.25E-03	1506	-4.3	1.21E-03
133	-5.7	2.99E-04	373	10.5	8.04E-05	657	-5.9	3.29E-07	989	3.7	8.61E-03	1256	4.1	1.49E-03	1507	9.3	3.28E-06
135	-3.3	9.00E-03	377	-10.2	1.54E-04	663	-5.4	2.76E-04	993	6.4	2.52E-08	1261	-5.3	2.72E-03	1512	-8.5	6.80E-03
137	-3.3	8.24E-03	381	7.6	1.71E-10	664	-4.4	1.39E-04	994	-4.4	1.87E-04	1263	-6.1	4.25E-04	1530	-6.4	8.04E-08
140	-4.1	5.91E-04	388	-10.0	2.98E-04	681	4.7	4.94E-05	997	-4.8	1.18E-03	1265	5.4	4.66E-04	1534	-7.2	3.91E-03
142	-4.1	1.32E-04	390	-4.4	2.13E-03	683	-4.5	1.10E-04	1003	4.6	3.91E-03	1266	-5.7	2.56E-06	1537	4.5	4.50E-04
145	3.9	3.32E-03	393	7.9	1.39E-08	688	4.9	2.76E-05	1006	-9.8	3.52E-06	1267	4.1	8.84E-04	1548	-7.1	4.01E-11
148	-4.9	1.19E-03	394	-3.6	2.05E-03	690	-5.7	3.06E-05	1009	-4.2	5.26E-04	1268	-6.1	4.77E-03	1552	3.1	6.88E-03
152	5.9	4.50E-05	395	-5.5	1.95E-06	703	4.1	2.18E-03	1010	-6.8	2.13E-07	1270	-4.4	2.84E-03	1558	6.1	2.09E-06
154	-6.4	1.35E-04	404	6.0	1.00E-05	707	3.4	4.20E-03	1015	-4.9	4.23E-05	1272	-9.0	7.35E-06	1560	3.5	8.07E-03
159	-6.7	7.98E-06	408	-5.6	5.65E-04	718	-5.5	1.44E-05	1016	-5.7	1.35E-06	1276	-8.2	4.87E-09	1561	-3.9	3.36E-03
162	-8.3	1.98E-04	409	-3.4	3.75E-03	730	-6.6	7.94E-06	1033	4.4	1.48E-04	1281	3.8	1.87E-03	1566	-4.0	1.98E-03

167	-3.4	3.72E-03	410	-3.1	6.41E-03	736	3.6	2.61E-03	1035	-3.8	4.04E-03	1287	-8.8	4.10E-11	1572	-5.5	6.11E-03
168	4.6	2.43E-04	411	-3.1	5.82E-03	760	-9.9	5.42E-04	1037	-6.4	5.45E-06	1294	3.1	2.46E-03	1573	4.3	2.58E-04
171	4.5	1.56E-04	412	-8.1	3.52E-08	762	8.6	1.84E-07	1038	-4.2	4.03E-04	1297	-7.7	4.22E-04	1579	-4.5	5.45E-04
173	-7.6	5.69E-04	416	-3.9	3.60E-03	769	-6.5	7.46E-09	1042	7.4	3.46E-10	1305	4.5	1.09E-04	1580	3.3	4.36E-03
176	-6.6	1.17E-08	424	-5.6	2.10E-03	770	-7.0	2.88E-03	1045	-5.8	7.38E-04	1306	-8.6	9.84E-09	1587	-10.1	9.61E-05
177	5.4	2.35E-05	425	-3.7	8.76E-04	779	-7.5	1.70E-06	1046	-8.6	2.48E-04	1307	-8.3	2.82E-05	1599	5.8	7.26E-06
181	4.4	1.50E-04	440	3.0	9.74E-03	782	-4.3	6.31E-04	1052	-3.7	2.31E-03	1311	5.6	1.19E-03	1603	-4.3	2.37E-03
189	-7.0	8.51E-06	450	3.5	2.92E-03	784	-7.3	1.98E-05	1057	7.0	5.96E-10	1317	-4.7	4.42E-03	1605	-5.5	3.55E-03
191	-3.1	8.06E-03	458	-3.4	3.03E-03	785	4.4	8.57E-03	1058	4.4	3.11E-03	1320	-3.6	5.00E-03	1607	-6.5	3.61E-04
194	7.5	5.50E-11	463	3.9	8.93E-03	793	6.7	6.12E-06	1063	4.4	2.46E-04	1332	7.2	7.44E-05	1611	-6.5	8.97E-03
196	4.9	8.63E-05	465	-7.1	5.34E-05	794	7.9	8.52E-05	1075	-7.2	3.85E-05	1333	6.2	1.75E-03	1612	3.9	5.39E-04
200	-3.5	5.41E-03	467	-6.0	2.09E-07	795	6.2	5.40E-07	1084	4.2	1.36E-03	1339	-3.5	2.81E-03	1614	5.6	2.00E-05
215	-7.0	8.75E-06	470	-5.7	3.57E-04	811	8.4	8.98E-05	1087	4.4	1.04E-04	1340	7.6	5.16E-04	1616	3.7	1.97E-03
217	6.6	4.83E-06	474	4.5	1.69E-04	812	7.1	2.61E-06	1094	6.6	1.28E-06	1346	-5.2	1.87E-05	1617	-4.0	4.65E-04
219	4.2	1.00E-03	476	7.2	1.35E-08	827	3.0	8.46E-03	1098	-5.3	3.81E-06	1354	-6.4	1.87E-05	1618	5.0	6.59E-05
220	-3.3	8.50E-03	478	3.8	1.72E-03	829	5.5	3.12E-05	1099	5.1	2.61E-04	1364	7.1	1.79E-10	1623	6.8	1.43E-09
225	3.8	1.64E-03	479	-13.3	4.56E-07	838	-3.4	3.65E-03	1100	-3.7	4.76E-03	1366	3.2	6.15E-03	1625	7.9	7.51E-13
231	-9.0	1.17E-11	490	-5.1	7.74E-03	839	-3.1	6.68E-03	1110	-4.7	3.19E-05	1370	-11.6	2.00E-06	1628	-7.7	1.65E-08
233	-4.3	5.32E-04	497	-10.3	1.02E-13	840	-5.8	2.20E-04	1113	-3.1	4.80E-03	1373	9.0	1.74E-06	1629	-7.6	1.93E-08
235	-4.9	2.24E-03	499	4.6	1.30E-03	842	-3.9	1.43E-03	1128	-4.2	2.80E-03	1380	-8.1	9.70E-06	1630	-5.6	1.23E-05
238	-4.1	4.66E-03	507	-5.9	4.67E-07	844	4.5	2.07E-04	1129	-4.3	2.02E-03	1385	-5.3	4.71E-06	1635	-7.7	5.20E-12

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1640	-5.7	6.56E-05	508	4.6	3.99E-05	846	-8.9	8.46E-09	1140	4.4	1.91E-04	1390	-10.5	1.48E-06	1636	-6.5	8.18E-04
1643	5.5	1.44E-04	521	-4.0	7.13E-04	858	-4.9	1.65E-05	1146	-4.9	1.19E-03	1391	-3.4	3.50E-03	1637	7.0	3.10E-08
1644	-8.3	3.95E-07	523	-4.7	4.60E-03	864	4.4	1.61E-04	1148	3.7	1.24E-03	1393	-3.0	7.06E-03	1639	3.3	8.81E-03
1650	-4.3	2.01E-03	1926	7.0	2.04E-08	2229	-4.1	7.66E-03	2521	4.5	1.61E-03	2828	4.5	8.69E-04	3104	-3.9	1.52E-03
1653	4.9	6.27E-06	1927	-9.0	1.16E-09	2231	9.1	1.23E-07	2522	-8.8	2.58E-14	2829	-7.7	1.85E-07	3108	-4.2	3.46E-04
1663	-5.0	3.76E-03	1928	-6.3	7.38E-08	2232	-5.9	9.12E-06	2523	-9.0	6.46E-15	2830	-8.1	3.59E-08	3116	4.1	9.94E-03
1669	4.1	1.65E-04	1929	3.8	7.77E-04	2237	-6.8	5.63E-04	2524	-4.5	7.69E-03	2832	4.4	1.85E-03	3122	3.4	6.20E-03
1673	-7.4	9.56E-05	1930	3.9	7.36E-04	2238	4.6	4.11E-04	2525	-4.4	8.10E-03	2838	-9.4	1.90E-12	3129	7.4	1.91E-09
1681	5.9	5.74E-06	1931	5.6	2.61E-03	2239	2.4	5.60E-03	2527	5.8	2.15E-07	2843	6.8	6.12E-09	3132	3.1	7.34E-03
1684	5.3	6.84E-04	1932	-7.8	2.64E-04	2245	-3.6	8.69E-03	2532	-8.9	1.35E-11	2844	-7.8	8.09E-04	3140	3.6	3.30E-03
1686	4.2	2.58E-04	1934	7.7	7.95E-04	2248	-2.4	6.70E-03	2535	5.8	3.92E-04	2845	-8.4	5.19E-04	3141	5.0	5.73E-05
1696	-9.9	9.94E-05	1938	-5.9	5.58E-06	2250	-5.6	1.02E-06	2537	3.3	1.11E-03	2848	-6.0	1.41E-07	3142	3.2	4.38E-03
1710	-6.4	1.15E-07	1939	8.6	6.35E-15	2251	-4.1	1.77E-03	2544	5.3	1.14E-05	2857	-8.0	6.46E-06	3143	-3.7	4.05E-03
1711	4.6	4.59E-03	1941	5.4	3.11E-05	2257	-4.0	7.57E-03	2550	-6.5	9.49E-04	2867	-8.8	3.15E-06	3150	-4.2	2.30E-04
1730	3.8	1.64E-03	1944	2.8	5.34E-03	2267	-4.0	1.42E-03	2564	3.2	6.61E-03	2870	-4.8	5.06E-03	3153	-5.3	1.31E-05
1731	-8.2	1.18E-12	1962	-4.0	6.67E-04	2271	4.6	5.82E-05	2568	4.3	3.64E-04	2877	13.4	9.84E-06	3154	7.6	4.95E-08
1740	-6.4	3.47E-07	1963	-7.2	1.55E-03	2275	-5.4	3.74E-06	2575	9.6	3.97E-04	2882	5.3	9.87E-05	3158	-6.5	3.88E-08
1741	5.1	2.16E-04	1978	-7.6	1.03E-05	2283	-3.7	8.91E-03	2577	-6.9	3.60E-04	2888	-5.4	9.44E-07	3165	-5.3	1.73E-04
1743	-10.8	1.41E-07	1980	6.2	3.38E-05	2285	-4.3	6.05E-04	2578	-6.2	1.97E-03	2890	8.5	1.29E-16	3166	-6.2	2.09E-08
1744	6.2	2.10E-05	1981	6.0	1.67E-05	2288	-3.9	2.09E-03	2580	6.3	4.04E-06	2891	6.2	1.96E-07	3170	5.8	1.39E-04
1745	6.5	5.71E-06	1982	-3.0	9.31E-03	2291	-4.5	1.25E-03	2595	8.3	7.52E-14	2897	-6.2	3.38E-03	3176	6.3	6.67E-08
1751	5.6	3.01E-06	1988	-4.6	3.22E-04	2293	5.3	2.20E-06	2604	-6.5	8.14E-06	2898	-6.3	3.71E-03	3178	-5.1	2.48E-05

1752	8.6	4.83E-10	1990	-7.3	4.36E-05	2294	5.2	3.48E-06	2608	4.4	1.47E-04	2900	4.9	3.27E-03	3179	-4.6	9.06E-04
1760	6.7	2.04E-06	1996	7.9	2.24E-04	2300	6.6	3.08E-09	2611	-6.3	7.13E-05	2901	-9.2	1.35E-11	3183	-5.6	5.04E-06
1763	4.1	9.77E-03	2002	-14.2	2.34E-07	2303	6.2	6.36E-06	2612	-7.3	6.31E-10	2907	-4.0	7.13E-04	3184	3.8	1.61E-03
1778	-7.4	1.53E-04	2003	-3.9	6.35E-04	2314	2.8	4.49E-03	2613	-3.7	5.13E-03	2910	-4.2	2.52E-03	3185	-7.2	5.16E-03
1780	8.7	1.82E-14	2004	7.2	7.06E-05	2316	3.4	5.88E-03	2614	4.5	2.81E-03	2914	5.7	4.44E-05	3190	4.8	1.40E-03
1781	4.9	3.44E-03	2013	-4.3	8.46E-04	2323	4.3	6.75E-05	2617	-5.7	1.65E-03	2916	-4.3	2.93E-04	3196	-4.2	3.30E-03
1782	4.8	3.56E-03	2015	-6.2	1.53E-04	2324	-3.6	6.89E-03	2619	4.6	4.67E-03	2924	7.5	1.22E-08	3197	-7.3	4.72E-03
1784	7.4	2.87E-03	2018	4.2	3.54E-04	2325	-6.9	2.11E-09	2620	4.3	2.73E-05	2929	-3.4	4.06E-03	3205	-6.2	6.22E-04
1788	-6.4	2.86E-07	2019	3.5	2.57E-03	2327	-6.5	6.59E-03	2622	3.2	5.62E-03	2941	-5.4	1.75E-04	3213	-8.4	8.94E-04
1790	-4.1	1.19E-06	2040	4.9	1.82E-03	2329	-5.1	5.91E-05	2624	3.4	3.86E-03	2946	4.1	6.60E-04	3218	-5.8	1.10E-05
1799	3.9	9.19E-04	2043	-3.7	5.00E-03	2335	-9.1	7.23E-13	2642	3.4	2.99E-03	2955	-5.5	2.54E-03	3220	3.5	4.92E-03
1803	-7.0	1.48E-05	2044	-3.8	2.98E-03	2338	-5.6	2.09E-04	2667	5.7	1.87E-03	2959	-5.1	8.44E-06	3227	-7.7	2.11E-07
1804	-9.8	5.95E-05	2046	-4.6	1.54E-04	2343	4.7	2.82E-05	2668	-4.1	3.38E-04	2965	4.8	5.07E-05	3235	-4.1	7.99E-04
1806	7.8	2.55E-03	2048	3.3	5.34E-03	2345	-3.9	1.33E-03	2673	5.1	1.79E-03	2971	-6.9	6.89E-09	3241	-6.9	9.11E-06
1823	3.5	9.55E-03	2049	6.6	4.61E-08	2354	-9.7	5.70E-05	2682	9.4	8.90E-05	2974	-8.9	7.21E-07	3248	-5.8	2.26E-03
1827	-7.5	1.45E-12	2056	-3.7	1.14E-03	2369	-6.4	3.38E-08	2686	9.1	1.27E-08	2976	-5.6	9.57E-03	3250	-6.0	5.11E-06
1833	-6.0	1.53E-04	2059	7.1	6.86E-07	2373	-7.0	3.61E-05	2688	-7.0	1.27E-09	2978	3.9	8.29E-04	3257	3.9	2.08E-03
1836	-3.9	6.47E-03	2072	-5.3	3.18E-03	2388	-2.8	2.13E-03	2693	4.6	4.63E-04	2980	-7.1	9.56E-03	3263	4.6	1.29E-04
1837	3.8	1.02E-03	2077	6.3	1.83E-10	2390	-5.4	3.12E-04	2696	4.5	9.97E-05	2998	-6.9	2.77E-06	3272	8.2	1.10E-06
1843	-5.9	8.19E-05	2090	-7.3	6.55E-10	2394	-4.2	8.43E-04	2702	5.6	6.02E-04	3006	4.4	1.02E-04	3280	-5.4	2.19E-06
1846	-6.1	2.14E-03	2093	-4.2	2.37E-07	2396	-8.7	1.59E-08	2703	-8.4	2.52E-05	3015	5.8	1.73E-04	3289	-5.0	9.01E-03
1847	-3.6	5.07E-03	2094	-3.2	5.38E-03	2400	5.9	1.04E-05	2705	-5.3	2.17E-06	3021	3.6	9.53E-03	3291	8.4	1.18E-03
1851	-4.0	6.23E-04	2096	-3.5	2.96E-03	2407	8.9	1.89E-03	2712	-4.7	8.33E-05	3024	3.1	7.90E-03	3292	-4.1	5.11E-03
1853	5.4	6.03E-03	2098	5.7	1.52E-03	2413	6.5	2.38E-06	2714	-10.2	1.57E-04	3026	-7.6	1.54E-11	3302	-4.6	1.17E-03
1858	-3.6	1.97E-03	2101	-3.9	2.84E-03	2414	6.5	1.71E-06	2727	4.4	2.47E-03	3027	-11.2	1.82E-08	3303	-4.6	1.26E-03
1862	-5.9	1.62E-06	2102	-3.5	2.72E-03	2416	-3.5	5.50E-03	2730	-9.7	5.15E-06	3029	-6.7	3.64E-03	3310	5.8	8.71E-07
1864	-7.3	2.99E-08	2107	8.5	3.89E-07	2422	-6.0	4.61E-07	2731	-9.4	7.91E-06	3033	-8.7	2.73E-04	3317	7.4	3.05E-09
1865	3.3	7.70E-03	2110	4.6	2.66E-05	2423	3.3	1.19E-04	2735	8.1	1.51E-12	3034	5.7	1.63E-04	3321	4.5	1.04E-04
1869	5.2	3.49E-05	2115	-6.5	2.15E-03	2427	-7.6	1.05E-10	2742	-6.2	2.94E-04	3035	4.3	8.51E-03	3322	-7.6	4.18E-09
1870	-7.5	7.38E-03	2116	-5.9	5.80E-03	2436	2.9	1.07E-03	2745	-4.5	5.27E-03	3037	-3.4	4.85E-03	3327	-6.3	1.05E-03
1875	-7.7	1.07E-05	2118	6.2	9.20E-06	2442	6.3	1.69E-03	2746	5.5	1.02E-09	3048	7.1	1.77E-08	3328	3.4	5.50E-03
1876	4.7	1.31E-04	2123	7.8	2.15E-07	2461	-8.3	5.67E-04	2754	9.6	6.70E-19	3050	-8.1	1.07E-08	3329	8.0	5.08E-03
1879	-5.7	1.81E-04	2126	5.9	1.26E-05	2465	-6.8	8.57E-10	2756	-7.2	4.22E-10	3053	6.0	2.20E-04	3334	-4.7	2.99E-03
1884	-6.9	1.77E-07	2131	-5.2	8.30E-03	2470	-6.2	1.99E-04	2760	-5.8	2.59E-07	3059	-3.8	1.35E-03	3335	-5.6	5.79E-03
1889	-3.5	2.46E-03	2133	5.3	4.42E-05	2471	8.0	7.61E-12	2761	-5.7	3.60E-07	3061	-6.9	7.27E-03	3338	-3.8	4.84E-03
1890	7.5	6.19E-06	2134	5.2	1.17E-04	2476	7.6	2.54E-10	2773	-7.2	5.37E-05	3062	-6.8	3.64E-08	3341	-5.0	5.05E-04
1892	3.5	3.44E-03	2136	7.1	1.08E-05	2483	4.7	8.87E-05	2774	6.9	4.85E-04	3066	4.0	3.31E-03	3344	-3.1	4.90E-03
1893	4.9	6.55E-04	2172	9.0	1.43E-11	2484	5.4	3.14E-06	2777	-5.0	5.42E-03	3069	5.4	4.92E-06	3357	-4.0	1.18E-03
1896	4.3	5.57E-04	2176	3.4	3.48E-03	2485	5.4	1.19E-06	2778	3.3	5.05E-03	3072	9.1	1.15E-06	3367	5.0	7.95E-04
1907	-4.4	1.08E-03	2177	4.7	7.63E-04	2490	-7.2	2.21E-03	2781	7.7	3.02E-08	3076	3.3	8.06E-03	3371	8.3	9.55E-14
1922	-6.3	7.92E-09	2187	-7.8	3.69E-07	2491	4.6	5.84E-05	2786	3.1	7.02E-03	3083	-5.4	2.66E-03	3374	-6.8	5.47E-05
1925	-3.3	9.08E-03	2195	-3.3	6.04E-03	2492	-5.9	2.27E-04	2820	-6.2	1.12E-04	3089	-7.3	1.95E-10	3390	6.1	5.96E-03
3406	-2.9	8.06E-03	2203	-5.1	5.16E-03	2501	-3.8	5.15E-06	2821	-4.0	2.11E-04	3097	-5.2	6.39E-05	3391	3.2	2.65E-03

3408	-3.7	2.66E-03	2210	-4.1	1.74E-03	2515	5.9	2.47E-03	2822	-3.9	1.43E-03	3100	-5.7	3.11E-04	3392	7.2	1.67E-05
3417	4.2	1.32E-04	2228	-5.8	5.91E-04	2516	-6.1	6.51E-05	2824	4.8	1.02E-04	3102	6.3	6.96E-03	3395	7.8	4.85E-06
3418	3.5	3.95E-03	3704	5.8	6.77E-05	3968	-7.1	4.77E-03	4250	-6.8	9.71E-03	4565	5.4	1.89E-03	4843	5.2	1.28E-05
3420	3.3	4.53E-03	3706	-3.7	4.46E-03	3972	10.7	1.87E-12	4264	-5.1	3.07E-04	4567	-6.0	3.01E-04	4858	-5.5	2.20E-05
3423	7.0	1.91E-08	3708	7.8	8.54E-11	3983	4.5	1.35E-04	4265	9.2	1.12E-07	4568	-2.6	5.58E-03	4859	-6.2	3.03E-07
3431	9.4	7.23E-03	3709	-8.1	7.16E-07	4001	5.7	9.82E-03	4268	-3.6	1.73E-03	4578	4.3	9.64E-05	4863	-4.3	1.42E-04
3432	9.3	7.33E-03	3713	4.9	1.33E-03	4009	3.4	3.53E-03	4270	-4.8	6.27E-05	4580	-4.0	6.17E-03	4864	-4.9	4.30E-05
3437	5.1	6.14E-04	3715	-4.3	2.24E-03	4011	4.1	1.62E-03	4276	-6.1	4.68E-06	4581	8.6	8.13E-13	4870	-5.2	5.69E-05
3438	-3.6	1.37E-05	3716	-4.2	2.30E-03	4015	4.0	6.53E-03	4285	4.0	3.35E-03	4582	3.3	4.54E-03	4873	4.7	7.40E-04
3439	-6.5	1.21E-04	3722	3.0	7.19E-03	4021	7.0	4.35E-03	4290	5.8	2.92E-03	4583	6.4	2.17E-07	4879	-5.9	7.05E-07
3440	-8.4	1.73E-03	3725	-4.1	6.33E-03	4022	-7.2	2.33E-06	4297	4.7	6.61E-05	4586	-5.7	1.58E-06	4880	-7.7	8.56E-03
3441	10.0	3.92E-07	3727	-8.0	1.71E-09	4025	4.5	7.51E-05	4299	-8.4	1.46E-11	4591	-11.2	2.27E-04	4893	3.5	3.60E-03
3444	-7.7	1.45E-03	3729	-3.6	5.92E-03	4027	5.1	3.81E-05	4301	-5.9	2.91E-04	4602	5.8	2.31E-07	4898	4.4	3.90E-06
3448	4.5	4.07E-03	3730	4.2	4.99E-06	4028	-5.7	3.12E-03	4306	4.3	1.78E-03	4606	-3.7	1.46E-03	4904	-3.3	3.97E-03
3450	-6.9	9.31E-03	3735	-5.7	1.82E-03	4031	-6.5	2.03E-03	4308	-7.5	3.01E-05	4607	-3.6	2.09E-03	4905	-5.4	1.69E-03
3457	-8.4	2.48E-05	3736	6.2	4.96E-04	4032	3.8	9.72E-04	4313	3.2	6.53E-03	4608	-6.3	2.11E-07	4911	7.9	8.66E-08
3467	3.7	6.65E-04	3738	-3.1	7.39E-03	4041	-5.4	6.85E-04	4314	3.4	1.51E-03	4612	-7.5	4.18E-04	4914	-5.3	5.52E-05
3471	-5.9	7.09E-03	3740	-6.8	8.80E-08	4044	-5.6	2.19E-04	4317	-3.9	2.52E-03	4613	5.4	1.11E-05	4919	7.8	7.09E-03
3479	-8.6	1.11E-06	3742	-7.0	8.52E-08	4045	6.5	1.08E-06	4332	-3.5	2.32E-03	4616	-6.3	1.42E-07	4920	5.0	5.71E-05
3485	-7.1	1.51E-08	3745	3.5	3.77E-03	4051	-5.6	2.57E-08	4333	-6.4	5.20E-05	4619	-4.8	3.08E-05	4924	5.4	3.00E-06
3489	4.2	9.76E-04	3749	-8.9	5.43E-13	4052	-7.0	1.42E-10	4334	8.1	7.52E-14	4622	-6.0	1.86E-07	4927	3.3	5.56E-04
3490	5.6	4.19E-05	3750	-4.1	6.00E-04	4053	5.0	8.10E-05	4335	8.0	5.99E-06	4623	-4.4	2.77E-04	4936	-5.3	3.14E-04
3491	9.2	3.97E-15	3752	-4.1	3.82E-04	4056	5.8	2.68E-07	4342	-3.9	6.71E-03	4627	-4.4	7.00E-03	4937	3.3	4.01E-03
3500	5.4	7.25E-03	3759	-7.3	9.14E-09	4070	-3.2	6.37E-03	4352	3.8	6.23E-04	4629	7.9	3.99E-12	4946	-4.7	3.32E-05
3506	-7.9	3.32E-06	3760	7.3	3.18E-11	4075	-5.2	9.13E-06	4354	4.5	9.04E-05	4634	-8.0	2.27E-08	4951	4.7	1.19E-04
3514	-7.3	3.81E-09	3762	-8.0	2.41E-04	4084	6.7	8.51E-07	4362	-5.9	1.27E-05	4638	-3.9	3.02E-03	4958	3.9	9.21E-04
3518	-9.5	2.02E-03	3763	6.2	8.51E-04	4088	-5.4	9.16E-06	4386	-5.2	3.65E-06	4639	-4.0	2.87E-03	4961	-5.6	4.20E-03
3523	7.5	2.70E-10	3770	3.5	1.84E-03	4090	-4.7	1.53E-04	4396	4.4	1.41E-04	4644	-4.1	1.15E-03	4962	-6.4	4.05E-03
3539	4.3	1.12E-03	3771	-8.5	3.11E-08	4096	4.3	8.98E-03	4398	-6.2	3.54E-07	4651	7.1	1.91E-08	4968	-7.3	2.26E-04
3548	-8.6	2.21E-04	3772	-11.7	2.86E-13	4097	-7.2	1.15E-09	4400	-7.4	5.27E-06	4654	-8.0	1.62E-08	4973	3.7	5.80E-03
3554	2.3	6.99E-03	3780	6.1	3.54E-08	4100	5.2	8.54E-05	4401	-8.1	2.40E-08	4662	-6.6	4.94E-07	4976	-9.5	3.72E-08
3558	-4.3	1.93E-04	3788	-6.0	2.53E-06	4106	-3.4	2.24E-03	4405	-9.3	3.48E-08	4664	5.1	6.60E-06	4977	-4.4	5.74E-03
3563	-8.4	5.14E-06	3789	-7.0	8.65E-05	4112	-3.9	1.25E-03	4417	6.7	8.51E-05	4670	-6.3	1.24E-05	4982	-3.6	2.34E-03
3568	3.7	2.43E-03	3796	-8.1	6.54E-08	4120	-5.4	2.97E-05	4420	-5.6	3.42E-05	4671	-4.9	1.58E-04	4986	-4.4	5.00E-03
3570	5.5	3.46E-03	3797	-7.9	2.89E-08	4121	-4.4	9.72E-04	4425	6.4	4.99E-08	4675	5.2	1.90E-05	4987	-6.8	4.38E-03
3579	4.7	7.19E-07	3798	-7.6	1.55E-06	4131	-7.6	2.35E-03	4426	-5.3	1.59E-04	4679	-7.5	3.90E-11	4991	-5.2	1.90E-05
3590	-3.7	1.11E-03	3801	3.9	2.55E-03	4134	-5.8	2.41E-06	4430	4.0	5.47E-04	4686	6.3	2.34E-05	4994	-4.3	5.98E-04
3591	13.3	1.86E-07	3808	-4.9	5.27E-05	4135	-6.5	1.42E-05	4446	-10.0	2.43E-14	4688	3.8	1.64E-03	4996	-7.8	2.04E-06
3592	4.1	8.96E-04	3810	-3.3	7.16E-03	4155	7.2	2.44E-09	4455	-3.9	7.05E-04	4690	-6.2	1.55E-04	5004	-11.3	2.36E-07
3593	-5.7	2.40E-06	3812	-5.5	2.77E-06	4156	3.4	7.44E-03	4457	-6.5	7.85E-03	4691	-6.7	8.04E-07	5005	-11.3	2.41E-07
3594	9.1	1.38E-08	3814	-6.4	8.09E-03	4159	6.1	2.38E-05	4467	3.9	9.20E-03	4694	-5.6	3.09E-06	5010	-5.2	7.92E-04
3596	-7.0	8.85E-09	3821	7.1	9.93E-03	4163	-6.9	4.73E-04	4471	-7.9	5.39E-03	4696	-6.9	2.14E-09	5013	3.5	2.19E-03
3601	-4.4	6.47E-04	3858	-4.9	3.98E-05	4165	-4.9	1.22E-04	4476	-3.5	2.09E-03	4705	3.2	9.19E-03	5016	-5.4	7.37E-09
3613	5.8	1.40E-06	3859	-5.9	7.04E-08	4166	-5.0	2.30E-05	4478	-6.6	6.99E-06	4728	7.2	2.44E-09	5025	8.3	1.30E-13

3614	-3.9	4.43E-03	3862	5.5	1.50E-06	4167	5.0	1.78E-03	4484	-8.3	5.90E-03	4745	-7.1	2.44E-04	5026	-4.9	9.73E-04
3615	3.1	7.97E-03	3865	-5.2	1.51E-05	4169	-6.2	2.95E-04	4485	-3.7	1.17E-03	4753	-2.8	5.75E-03	5028	-5.1	2.60E-06
3617	7.0	7.64E-03	3866	4.7	6.94E-05	4184	4.9	4.50E-04	4486	7.1	1.07E-03	4758	-6.4	1.10E-06	5030	-3.7	1.16E-03
3618	7.4	2.46E-09	3878	-8.2	2.02E-12	4187	3.8	5.94E-03	4487	5.0	5.96E-06	4760	-4.7	1.85E-04	5036	4.0	9.10E-04
3619	-5.7	1.83E-06	3883	4.4	1.81E-04	4188	-4.5	2.13E-04	4492	-4.5	8.72E-04	4761	-4.6	2.79E-04	5044	-4.2	6.83E-03
3625	4.0	3.49E-06	3884	-5.8	1.55E-07	4191	-4.1	6.32E-04	4493	-6.7	9.22E-06	4763	-3.8	7.70E-04	5063	-7.4	3.02E-05
3629	3.8	6.06E-03	3892	-5.3	9.86E-06	4194	-6.3	1.38E-06	4501	3.6	6.07E-03	4766	-4.5	2.17E-04	5066	-4.9	1.73E-05
3631	-4.3	5.15E-04	3902	-4.7	2.05E-04	4196	6.8	3.04E-06	4502	4.3	3.96E-04	4769	-5.6	6.64E-03	5070	3.9	6.93E-03
3636	-6.1	9.74E-07	3904	-3.7	1.10E-03	4198	-5.4	2.13E-05	4505	8.5	4.48E-14	4770	-6.4	6.27E-08	5071	3.2	5.22E-03
3647	-4.9	1.25E-04	3909	4.8	1.39E-03	4202	3.4	5.37E-03	4506	-5.2	2.25E-05	4771	-9.4	6.35E-07	5074	-8.7	3.14E-05
3649	3.1	9.81E-03	3910	4.7	1.02E-05	4205	3.4	5.21E-03	4515	3.3	3.64E-03	4780	3.1	8.76E-03	5078	-3.0	1.61E-03
3652	-13.6	8.47E-07	3913	3.7	1.80E-03	4214	-8.1	6.33E-05	4522	4.3	6.83E-03	4789	-4.2	8.43E-04	5079	3.4	5.15E-03
3661	-3.3	6.29E-03	3914	-8.9	1.79E-15	4215	4.6	6.91E-05	4523	3.3	8.44E-03	4790	-10.6	4.55E-20	5083	4.7	1.10E-04
3668	3.5	2.49E-03	3917	4.1	2.45E-03	4230	-6.3	4.58E-04	4524	6.0	5.17E-03	4797	-4.2	1.33E-03	5086	6.9	2.24E-10
3670	-3.9	7.51E-03	3926	4.2	9.48E-04	4232	3.7	5.12E-03	4525	-5.7	9.65E-05	4800	-6.0	9.85E-04	5095	-6.4	1.34E-05
3687	-7.6	6.17E-03	3929	5.1	2.09E-05	4234	-7.3	1.89E-08	4529	-11.7	1.31E-04	4802	3.7	3.14E-03	5106	-7.8	2.31E-03
3695	-7.0	4.29E-04	3930	-7.1	3.00E-04	4235	9.4	7.15E-03	4536	3.3	6.44E-03	4803	5.0	2.33E-05	5107	-4.5	9.80E-03
3696	-4.8	2.33E-03	3938	7.0	1.51E-04	4236	7.5	8.06E-05	4542	10.0	1.03E-16	4807	6.4	8.45E-06	5109	5.0	8.11E-04
3700	8.9	1.36E-11	3940	5.3	7.67E-06	4241	10.0	3.80E-07	4543	6.1	1.03E-03	4826	6.8	9.87E-05	5111	-8.4	1.76E-03
5125	6.1	1.54E-07	3946	8.8	7.12E-12	4245	-4.9	4.59E-04	4545	3.1	9.48E-03	4827	5.0	3.04E-03	5117	7.9	1.11E-03
5133	-13.0	5.50E-11	3947	-3.5	2.73E-03	4246	-5.5	2.71E-06	4549	7.7	2.69E-05	4834	-10.3	2.44E-05	5122	-8.2	2.19E-06
5134	-3.0	9.30E-03	3957	-4.4	5.63E-03	4248	-12.8	8.30E-06	4562	-5.1	8.68E-06	4839	-3.0	4.88E-04	5124	-8.5	3.78E-13
5138	-6.0	3.98E-07	5402	-3.2	1.28E-04	5664	-6.4	1.22E-03	5874	3.0	8.96E-03	6134	-4.1	9.07E-04	6408	4.2	6.55E-04
5148	-6.0	7.89E-06	5404	-3.7	4.54E-04	5668	-10.6	9.99E-16	5875	-8.2	7.76E-11	6136	-4.6	2.37E-04	6411	-3.4	2.73E-03
5155	-8.3	9.51E-03	5406	-3.1	8.97E-03	5670	3.9	4.97E-03	5876	-4.3	1.33E-03	6137	-4.6	2.00E-04	6415	-5.7	2.44E-06
5164	-5.7	4.95E-07	5412	-3.2	7.85E-03	5674	-7.2	2.82E-08	5877	3.9	1.15E-03	6142	-3.7	3.08E-03	6416	5.4	1.22E-05
5170	3.2	5.92E-03	5413	3.8	1.17E-03	5677	3.5	3.76E-03	5883	-4.9	1.71E-03	6143	-3.7	2.04E-03	6417	6.4	2.69E-06
5172	-7.5	9.83E-11	5414	-3.6	2.78E-03	5679	-3.5	6.04E-03	5884	-7.7	1.97E-11	6150	-6.3	1.51E-03	6420	-3.9	6.08E-04
5176	-8.5	9.04E-04	5415	-7.5	9.91E-03	5682	3.5	2.82E-03	5887	-9.8	7.99E-07	6152	7.7	4.47E-10	6431	-9.1	8.62E-04
5178	6.3	3.15E-04	5417	4.7	4.01E-03	5684	8.8	2.82E-05	5892	-4.5	1.82E-04	6177	3.3	4.00E-03	6434	3.1	8.77E-03
5185	6.4	4.30E-06	5419	3.3	5.23E-03	5688	-7.3	7.26E-06	5897	-4.0	3.57E-04	6181	5.8	4.29E-07	6436	3.8	1.77E-03
5187	4.8	5.83E-03	5426	-4.1	1.73E-03	5691	6.0	1.79E-05	5901	-3.2	7.16E-03	6186	5.5	4.68E-05	6438	3.9	1.77E-04
5199	-4.0	6.20E-03	5427	-4.2	1.28E-03	5701	5.8	2.64E-03	5903	8.1	3.50E-04	6187	4.0	3.05E-03	6440	3.1	8.72E-03
5201	-4.6	1.87E-04	5429	5.0	8.11E-04	5703	8.6	2.11E-14	5905	-6.3	1.84E-03	6191	-8.0	2.13E-03	6451	-4.4	2.47E-04
5204	-3.5	2.76E-03	5432	7.0	1.35E-10	5704	5.3	2.03E-06	5910	-9.1	3.68E-08	6195	-6.3	7.04E-08	6461	-6.8	4.75E-06
5205	-5.3	1.28E-03	5435	5.0	2.62E-05	5705	5.3	1.85E-06	5914	6.0	6.72E-06	6204	-11.5	2.95E-11	6463	-3.9	7.69E-04
5207	7.7	5.76E-06	5446	3.2	5.03E-03	5711	-6.4	3.77E-07	5915	2.9	4.11E-03	6214	9.0	3.07E-13	6476	-9.3	1.90E-04
5209	3.2	5.20E-03	5463	-4.0	4.53E-04	5712	-5.6	1.26E-04	5921	-6.2	2.33E-04	6219	3.5	9.39E-03	6477	10.0	6.01E-07
5221	-4.7	3.43E-04	5470	-6.1	1.04E-06	5713	8.7	1.22E-13	5922	-5.7	1.13E-03	6221	9.3	1.15E-08	6480	-4.7	2.52E-03
5231	5.2	1.15E-04	5482	9.6	1.71E-03	5715	-5.8	2.27E-03	5923	4.4	6.76E-04	6229	-3.4	1.80E-04	6485	-7.2	5.25E-06
5232	5.3	3.26E-03	5483	-4.1	1.11E-03	5737	-4.2	3.33E-03	5924	-4.4	4.74E-04	6230	7.5	1.21E-11	6487	3.6	2.30E-03
5235	-5.2	1.79E-04	5489	-4.9	3.30E-05	5739	4.5	6.44E-07	5930	-5.7	2.61E-06	6232	-2.7	9.65E-03	6496	6.2	7.02E-03
5237	7.5	2.88E-11	5491	6.1	2.63E-07	5741	-8.3	4.56E-14	5931	4.6	3.82E-03	6233	5.0	6.43E-05	6498	-5.0	2.88E-06

5239	-4.7	3.89E-04	5495	5.7	6.63E-04	5742	-8.4	2.27E-14	5948	-3.1	1.54E-03	6240	-4.1	1.82E-03	6501	-5.3	8.46E-04
5242	3.1	3.05E-03	5499	7.3	9.45E-09	5748	-12.7	5.64E-06	5952	-5.7	1.18E-06	6242	-4.7	6.69E-03	6505	-4.5	1.37E-04
5251	-3.4	6.87E-05	5501	5.3	2.51E-06	5752	-4.5	1.52E-03	5953	-6.5	5.84E-08	6245	7.9	2.16E-11	6515	8.8	8.10E-05
5252	-3.6	3.51E-05	5502	5.1	5.62E-06	5753	-7.5	3.17E-05	5955	8.3	3.20E-07	6248	-8.5	9.97E-05	6521	-5.6	2.29E-05
5258	9.9	1.96E-04	5503	-5.5	8.77E-03	5754	-5.6	2.95E-07	5963	-4.4	3.79E-03	6249	6.8	4.90E-09	6523	-4.8	3.45E-07
5261	-6.1	3.20E-07	5505	-10.0	2.66E-06	5755	-6.7	2.05E-04	5966	3.3	2.39E-03	6250	-6.4	2.50E-08	6529	-6.4	9.71E-05
5273	-3.3	4.52E-03	5509	5.2	1.01E-03	5756	10.8	8.45E-13	5968	-3.9	5.52E-04	6253	-5.9	1.75E-07	6531	4.9	3.69E-03
5274	-3.3	4.75E-03	5512	-7.3	1.29E-06	5758	5.6	3.82E-03	5969	-3.3	4.61E-03	6258	-10.1	6.55E-11	6533	-5.3	2.70E-06
5275	-5.6	8.93E-07	5520	4.6	2.17E-04	5761	5.8	1.01E-06	5970	3.5	3.43E-03	6267	-7.9	1.04E-05	6535	-4.4	3.16E-05
5279	-3.4	3.39E-03	5522	-4.6	7.06E-05	5762	5.8	7.68E-07	5971	9.2	3.44E-15	6271	-9.3	1.17E-04	6540	-6.1	4.94E-07
5280	7.8	5.34E-05	5523	-8.5	4.03E-06	5763	7.7	6.89E-04	5986	6.3	6.15E-07	6272	-3.6	2.09E-03	6544	4.5	1.01E-04
5285	-4.8	9.37E-05	5524	-3.9	5.88E-03	5768	-3.8	7.71E-03	5989	2.5	2.88E-03	6284	4.0	5.38E-03	6550	-5.0	2.23E-06
5290	4.3	2.26E-03	5527	3.9	2.80E-04	5772	12.2	1.57E-04	5992	-3.2	6.04E-04	6291	4.5	7.97E-03	6551	-6.7	1.03E-03
5291	7.1	4.90E-03	5529	-4.5	1.38E-04	5777	7.8	1.02E-03	5993	-4.5	4.33E-03	6294	-6.7	2.22E-08	6565	3.2	4.22E-03
5294	5.9	4.75E-03	5535	4.5	1.14E-03	5781	6.0	2.06E-05	5998	-5.0	1.75E-05	6297	5.3	2.49E-05	6566	-5.8	2.52E-03
5295	-4.9	2.70E-03	5546	-3.4	4.14E-03	5784	-3.9	5.91E-03	6006	-5.2	7.64E-05	6303	5.2	4.48E-06	6568	-7.0	5.94E-11
5302	-6.6	6.55E-09	5551	4.3	1.51E-03	5785	-12.0	4.33E-08	6016	-3.7	1.94E-03	6304	5.2	3.12E-06	6571	-10.7	2.32E-09
5308	-5.4	5.64E-06	5554	-4.8	5.48E-03	5788	-8.4	1.01E-08	6024	-3.4	5.94E-03	6310	8.2	1.90E-14	6576	10.0	2.89E-04
5310	-6.2	2.83E-03	5563	-3.6	1.18E-03	5791	-5.4	2.94E-06	6025	-8.1	5.29E-04	6321	5.6	3.64E-05	6582	4.7	1.08E-04
5316	4.2	6.90E-03	5567	-3.3	8.27E-03	5798	-5.8	2.11E-05	6031	4.4	9.59E-05	6323	6.1	1.51E-03	6583	-3.3	3.94E-03
5317	4.2	5.61E-04	5570	4.4	5.01E-05	5800	-3.3	3.14E-03	6033	-5.1	5.90E-04	6325	6.2	2.47E-06	6587	3.5	3.57E-04
5321	4.1	9.36E-04	5578	5.4	6.02E-04	5803	-6.1	2.98E-03	6036	-6.9	1.37E-06	6328	-5.4	6.12E-06	6601	-7.2	4.79E-07
5322	8.5	1.66E-04	5580	-9.2	7.28E-16	5806	-5.6	9.97E-04	6037	-5.3	5.06E-05	6333	3.2	8.34E-03	6606	7.1	4.10E-03
5323	-3.7	1.27E-03	5583	-8.1	1.17E-03	5808	6.0	1.96E-03	6046	5.6	1.92E-03	6337	-6.0	1.61E-07	6607	-4.9	7.74E-05
5329	-6.5	4.34E-03	5584	-4.5	8.31E-03	5809	-6.2	6.80E-03	6049	7.3	1.02E-03	6340	-5.2	1.99E-03	6619	-5.1	5.87E-06
5336	4.2	2.49E-04	5588	4.4	1.12E-03	5815	-6.2	1.42E-04	6050	-3.4	1.17E-04	6352	-13.9	3.15E-10	6626	-5.8	8.27E-06
5340	-10.1	1.14E-04	5592	3.8	1.76E-03	5816	-9.8	1.25E-05	6052	-4.8	3.09E-04	6358	7.7	9.89E-11	6633	-3.8	2.37E-03
5344	5.0	6.70E-06	5596	-4.2	8.90E-04	5819	-4.1	2.93E-03	6061	-8.4	5.14E-06	6359	-6.9	1.07E-06	6637	5.9	4.51E-06
5345	9.2	2.69E-17	5597	-4.2	9.22E-04	5821	-6.1	1.13E-07	6068	5.6	1.36E-06	6361	3.7	1.08E-03	6639	4.6	9.83E-05
5348	6.2	3.46E-05	5602	-3.4	3.58E-03	5823	-10.9	5.18E-07	6069	-3.5	4.59E-05	6372	4.2	1.03E-04	6643	3.6	1.68E-03
5350	4.1	4.61E-03	5605	-7.4	8.09E-05	5824	-11.3	2.41E-07	6075	-2.3	5.67E-03	6373	8.6	3.88E-14	6648	-8.2	1.39E-04
5353	6.0	9.63E-08	5606	-6.6	7.72E-04	5825	-6.1	4.64E-05	6081	4.1	2.45E-03	6374	6.6	4.20E-05	6658	-4.7	2.99E-05
5363	-3.6	5.77E-03	5608	-9.1	2.62E-16	5828	-6.5	4.24E-05	6086	-8.8	6.82E-11	6375	4.6	9.81E-04	6659	4.7	9.49E-05
5368	3.9	3.43E-03	5609	-4.8	5.94E-03	5830	-7.4	7.17E-03	6087	-4.0	1.08E-03	6376	8.8	4.52E-13	6660	-6.1	1.18E-06
5377	5.8	2.21E-04	5614	-6.7	1.29E-04	5835	4.2	5.95E-03	6088	-4.0	1.21E-03	6377	7.6	2.10E-05	6669	5.2	1.43E-04
5379	-8.6	5.17E-13	5616	3.7	7.22E-03	5838	-9.0	1.83E-15	6089	-7.3	9.56E-10	6379	-3.9	7.03E-03	6671	-7.5	1.56E-10
5383	6.1	4.11E-03	5619	6.5	1.82E-06	5840	3.3	2.99E-03	6092	-6.5	2.56E-05	6381	-5.4	2.76E-06	6676	-6.5	1.72E-06
5387	-6.1	5.51E-06	5630	5.6	2.16E-04	5846	5.3	7.73E-05	6093	-5.9	1.18E-04	6382	-3.3	5.12E-03	6679	-4.3	3.00E-04
5397	3.5	4.88E-03	5637	4.3	3.81E-03	5852	-7.9	3.34E-04	6102	-5.0	1.09E-05	6385	-3.3	1.80E-03	6681	4.6	1.55E-04
5399	-3.8	4.00E-03	5638	5.2	2.73E-03	5856	3.9	8.13E-04	6103	-5.9	1.71E-05	6394	4.1	7.01E-04	6685	-8.7	1.22E-07
6694	-8.4	1.72E-03	5648	-5.3	6.04E-04	5866	-5.8	9.12E-04	6105	6.9	3.22E-09	6397	-8.7	1.66E-08	6686	-3.0	8.51E-03
6695	-7.6	3.29E-03	5658	8.5	6.85E-04	5868	4.7	9.39E-05	6117	-5.6	1.85E-06	6398	-5.3	3.11E-04	6690	-8.7	1.84E-06
6697	3.7	2.18E-03	5660	3.2	6.27E-03	5870	3.0	6.33E-03	6130	-3.3	9.29E-03	6405	-4.9	3.59E-05	6693	-7.9	3.34E-03

6701	-4.4	9.63E-03	7011	-4.2	6.41E-04	7315	-5.3	6.85E-04	7578	-6.3	2.83E-06	7857	-6.9	7.25E-05	8142	-6.6	2.85E-08
6703	-6.1	3.33E-06	7012	-4.2	5.93E-04	7316	-4.9	3.34E-04	7579	-3.9	6.14E-04	7858	-4.8	1.21E-04	8143	-6.3	9.43E-08
6709	4.6	4.65E-04	7013	-4.6	1.67E-04	7317	-4.9	4.54E-04	7580	4.8	4.08E-05	7859	4.2	4.42E-04	8145	-5.6	1.58E-06
6711	-6.1	9.89E-03	7018	-8.5	4.06E-08	7322	-3.0	5.22E-03	7582	-5.5	1.07E-05	7860	-5.0	3.31E-04	8146	3.6	1.25E-03
6714	-6.9	1.64E-09	7023	-5.1	6.54E-05	7329	-7.6	5.04E-04	7588	-5.0	1.16E-05	7863	5.1	1.24E-05	8147	6.4	4.50E-08
6718	-6.7	5.73E-05	7032	3.3	5.61E-03	7331	4.5	4.16E-03	7595	4.5	1.25E-04	7869	-8.7	4.21E-03	8149	5.1	1.05E-05
6724	9.2	8.15E-08	7044	-4.0	2.31E-03	7335	-6.2	1.35E-04	7601	-4.3	1.20E-03	7871	8.9	3.55E-11	8150	6.2	3.20E-05
6727	7.6	3.18E-04	7052	-10.4	8.92E-05	7338	-4.2	1.56E-03	7605	-5.5	1.37E-05	7873	4.3	4.76E-04	8152	-5.6	2.03E-06
6735	7.1	8.66E-05	7053	-3.7	3.53E-05	7341	-7.3	7.46E-03	7611	-3.2	7.30E-03	7876	-4.3	4.07E-04	8160	-6.0	1.58E-06
6738	-3.3	3.60E-03	7055	-6.1	8.00E-07	7345	4.8	2.22E-03	7617	6.5	5.19E-03	7889	-5.4	5.40E-06	8161	4.7	8.67E-05
6749	-5.8	3.64E-04	7058	-3.2	6.49E-03	7355	-3.4	1.55E-03	7624	4.5	9.63E-03	7891	-4.3	1.56E-04	8163	-6.4	2.22E-08
6751	-7.6	1.23E-06	7064	3.1	8.08E-03	7356	3.4	3.71E-03	7630	-7.8	2.32E-03	7897	6.1	2.05E-05	8166	4.8	1.13E-04
6757	-5.3	9.01E-05	7068	4.7	1.83E-03	7357	9.1	5.15E-12	7639	-4.3	2.90E-04	7900	-5.9	2.62E-04	8168	-5.4	4.83E-06
6763	6.2	6.46E-06	7069	-9.1	5.47E-09	7370	-7.1	1.28E-04	7642	-4.5	3.13E-05	7910	5.9	2.36E-03	8172	4.9	2.74E-03
6765	3.4	1.11E-03	7072	-6.6	2.58E-08	7374	4.7	1.09E-04	7643	5.3	7.49E-06	7921	-4.9	3.05E-03	8184	-5.0	9.47E-05
6766	-4.7	3.47E-06	7073	-6.6	2.58E-08	7376	-6.0	2.89E-06	7644	-8.1	8.22E-13	7927	3.6	2.59E-03	8188	4.9	2.62E-05
6774	-6.8	2.60E-06	7079	4.7	4.04E-05	7386	-4.3	1.75E-04	7645	-6.1	4.20E-03	7939	4.7	1.16E-04	8189	-4.9	5.51E-05
6780	-6.3	2.47E-06	7086	-8.4	3.21E-11	7392	-7.6	8.07E-04	7648	-9.6	4.23E-04	7940	-3.3	5.85E-03	8192	7.1	4.63E-08
6782	-4.4	2.02E-03	7088	-4.3	6.47E-03	7396	4.6	1.92E-04	7649	-5.6	1.48E-04	7941	5.5	2.08E-04	8193	7.1	2.80E-06
6783	-3.3	8.31E-03	7092	3.4	8.43E-03	7406	4.3	5.87E-03	7659	-7.6	4.79E-07	7949	-4.7	6.66E-04	8194	-4.7	1.83E-03
6784	3.7	2.10E-03	7097	-5.4	2.87E-05	7409	-5.2	8.28E-03	7660	8.8	1.31E-08	7950	-6.2	2.78E-07	8202	9.0	2.54E-03
6788	5.5	4.70E-03	7098	4.5	1.59E-04	7412	-4.9	2.61E-03	7665	6.9	7.90E-10	7956	-7.9	1.08E-08	8207	7.1	1.59E-03
6799	4.1	3.04E-04	7101	-4.3	2.97E-05	7414	5.1	4.88E-08	7666	-3.2	7.97E-03	7959	-3.8	3.01E-03	8210	5.7	4.23E-03
6808	-5.3	6.36E-04	7106	3.1	9.68E-03	7416	-4.4	2.34E-04	7672	4.1	3.37E-04	7964	5.9	2.81E-07	8212	-6.0	9.48E-06
6812	4.1	6.84E-03	7108	-5.0	3.46E-03	7421	-5.9	5.30E-07	7676	-6.9	2.05E-07	7965	7.0	1.48E-09	8219	4.9	1.91E-03
6818	-4.2	2.71E-04	7112	-6.8	3.48E-08	7424	9.2	1.10E-07	7684	-3.7	5.20E-03	7966	-6.0	2.52E-05	8224	4.2	8.44E-03
6819	-7.6	3.09E-04	7116	6.5	4.66E-09	7427	-5.2	1.18E-03	7689	8.5	1.39E-12	7976	-3.8	6.75E-04	8233	-6.5	1.71E-08
6834	-3.8	1.78E-05	7129	-4.6	9.21E-05	7434	5.4	9.48E-08	7690	-6.1	9.55E-08	7982	8.7	1.83E-11	8235	-5.5	1.83E-06
6839	5.0	7.82E-06	7133	-4.4	4.00E-04	7439	7.9	4.32E-06	7691	-6.3	3.29E-08	8006	-4.3	3.28E-04	8237	5.8	7.38E-05
6843	-6.3	7.03E-07	7135	10.1	2.96E-04	7443	-13.2	2.70E-10	7693	-5.5	3.86E-04	8007	-9.7	1.27E-03	8238	5.9	4.64E-05
6849	-13.4	2.11E-07	7136	8.3	1.52E-03	7448	-5.6	9.26E-07	7701	-5.9	1.20E-06	8009	-4.2	8.11E-04	8239	3.4	7.92E-03
6854	-5.8	1.41E-04	7149	5.5	4.87E-04	7451	4.7	9.82E-05	7702	3.9	7.76E-04	8012	-6.6	2.27E-04	8240	-3.7	4.45E-03
6856	-3.3	4.92E-03	7159	3.5	4.23E-03	7453	-4.1	8.55E-04	7721	-8.1	1.51E-08	8018	5.4	3.31E-03	8243	-5.2	2.98E-04
6864	-3.4	3.86E-03	7160	8.2	3.84E-09	7461	7.5	5.53E-04	7722	-10.7	1.37E-07	8022	-5.5	3.98E-04	8245	-4.2	5.56E-03
6866	5.1	7.51E-03	7161	-3.7	4.52E-03	7468	4.7	3.53E-05	7725	3.8	2.99E-04	8024	-5.3	5.51E-06	8246	-9.0	6.69E-04
6869	-8.8	2.87E-13	7166	-4.2	9.51E-04	7472	3.6	7.43E-03	7726	4.2	7.56E-03	8025	-9.7	1.59E-06	8259	2.2	8.91E-03
6870	-8.3	4.51E-04	7172	5.7	1.69E-06	7491	6.3	5.54E-04	7727	6.4	9.49E-08	8026	4.6	9.45E-03	8260	7.9	8.18E-12
6882	7.0	1.27E-03	7180	-8.3	2.84E-05	7493	4.8	4.89E-05	7737	-6.3	4.91E-08	8032	-7.0	1.41E-09	8261	7.5	2.14E-09
6887	-3.8	2.05E-03	7181	-11.7	7.92E-06	7495	-5.3	1.35E-03	7738	4.0	2.91E-04	8037	-7.3	3.25E-06	8275	-4.2	9.78E-03
6891	-5.5	4.99E-05	7182	-3.4	4.43E-03	7497	4.0	3.79E-04	7745	5.9	3.19E-07	8040	9.1	9.90E-08	8276	-6.3	5.30E-08
6894	9.3	3.71E-09	7184	-3.9	6.70E-04	7502	-7.1	4.56E-09	7747	7.3	3.74E-09	8045	5.6	3.69E-04	8280	-2.9	8.33E-03
6900	-6.4	1.37E-03	7190	3.3	6.49E-03	7506	-4.9	3.74E-05	7753	7.5	7.24E-08	8046	6.7	1.60E-06	8284	-5.4	7.80E-03
6906	4.2	2.80E-04	7197	-8.2	1.44E-12	7507	-5.9	1.34E-05	7774	4.1	2.50E-03	8055	6.7	9.79E-07	8285	3.3	5.99E-03
6907	4.2	2.25E-04	7198	-4.2	7.99E-03	7515	-6.2	9.60E-06	7777	-7.1	2.07E-09	8060	-4.5	1.10E-04	8287	-4.1	4.54E-05

6909	-5.9	5.33E-03	7199	-5.8	1.17E-05	7516	-5.7	2.26E-05	7784	4.0	2.48E-03	8064	-4.1	1.22E-03	8300	-4.2	1.44E-03
6926	4.4	1.65E-03	7202	-5.8	3.55E-03	7520	6.1	1.19E-07	7787	4.0	5.91E-04	8067	-3.2	7.66E-03	8318	-6.7	1.89E-08
6928	5.7	3.96E-05	7209	6.3	8.72E-05	7524	-3.8	2.24E-03	7810	-7.1	1.83E-08	8073	6.4	4.84E-06	8330	3.0	5.15E-03
6933	-5.8	3.58E-03	7218	-7.2	9.23E-11	7525	-3.8	2.27E-03	7812	-7.1	2.88E-03	8074	5.5	6.19E-03	8332	-4.3	3.69E-03
6934	-5.8	3.61E-03	7219	-10.6	1.01E-15	7532	-6.0	5.01E-05	7814	-4.4	1.60E-04	8075	-5.2	5.36E-06	8340	-4.4	2.94E-03
6938	-4.5	1.93E-05	7223	-6.8	1.97E-06	7533	4.6	8.48E-04	7815	-3.3	6.69E-03	8078	-3.2	8.01E-03	8343	3.5	8.03E-03
6945	3.2	5.83E-03	7227	7.3	9.41E-08	7543	-5.7	3.14E-05	7816	-4.4	3.45E-04	8084	3.5	2.93E-03	8349	-6.4	3.71E-06
6952	3.4	5.78E-03	7228	7.4	5.29E-08	7545	5.5	1.46E-05	7822	-7.4	6.62E-11	8087	-3.8	1.05E-03	8351	7.7	3.04E-11
6953	6.0	1.24E-06	7231	3.6	2.00E-03	7547	-4.5	1.05E-04	7825	-3.3	5.11E-03	8088	5.5	1.94E-04	8353	-3.1	6.38E-03
6962	5.2	3.44E-05	7232	-5.7	8.29E-07	7548	-3.2	6.05E-03	7826	5.1	4.28E-05	8089	7.7	5.37E-06	8358	-6.5	5.46E-07
6980	-5.0	1.07E-05	7233	3.3	4.30E-03	7549	-5.4	2.60E-06	7827	-3.8	3.70E-03	8090	4.1	6.42E-03	8361	3.6	1.86E-03
6989	-5.4	2.46E-03	7239	-8.1	5.24E-04	7559	6.4	4.86E-08	7828	-5.5	1.65E-04	8098	3.2	7.23E-03	8362	-6.1	1.00E-03
6991	-3.9	2.76E-03	7245	2.5	2.32E-03	7560	6.8	9.11E-09	7831	-5.0	7.05E-05	8102	-4.8	5.16E-05	8365	-3.7	4.65E-03
6993	-6.5	4.25E-03	7251	4.0	2.74E-03	7568	6.6	2.61E-04	7837	7.4	7.09E-07	8105	7.4	1.52E-07	8366	-3.7	5.17E-03
6996	8.6	1.25E-12	7271	-6.6	1.36E-08	7569	6.4	2.68E-07	7841	5.8	2.50E-03	8110	-6.5	7.74E-05	8367	-2.7	2.96E-03
6998	-4.8	2.10E-03	7289	6.7	1.67E-08	7570	-6.5	1.25E-08	7843	5.3	2.73E-05	8111	-4.3	2.42E-04	8368	-4.3	2.06E-04
6999	-6.5	9.66E-09	7296	-8.0	1.14E-03	7571	5.2	2.56E-08	7844	-4.2	5.62E-04	8117	3.4	6.22E-03	8374	-3.1	7.95E-03
8395	-3.9	4.68E-04	7304	-5.8	4.66E-04	7572	3.6	2.11E-03	7849	-5.2	2.75E-03	8127	7.4	1.96E-10	8377	4.2	5.54E-04
8398	4.7	8.59E-05	7311	-6.6	7.57E-09	7573	5.9	8.76E-05	7854	-7.4	2.58E-04	8129	-5.5	4.96E-03	8384	-6.7	2.35E-03
8402	-5.3	3.54E-04	7313	5.5	7.71E-06	7575	-6.3	9.81E-04	7856	-6.5	2.85E-07	8133	-4.4	1.25E-04	8387	4.6	2.84E-03
8421	-5.5	1.87E-05	8705	-5.2	4.15E-03	8970	-4.4	2.23E-05	9224	-8.2	6.59E-07	10139	-3.5	2.62E-03	10488	-4.4	1.89E-03
8423	-5.7	6.84E-06	8707	-5.0	3.11E-03	8973	3.9	1.80E-04	9225	3.9	1.74E-05	10148	-4.3	4.54E-04	10494	4.0	6.39E-05
8425	-7.5	1.51E-10	8708	-5.1	3.07E-03	8974	4.1	9.58E-05	9232	-4.3	2.32E-03	10157	-3.2	3.49E-03	10498	-9.9	5.20E-06
8426	-7.9	3.72E-09	8710	-11.2	1.96E-14	8977	-4.0	4.97E-03	9237	-5.3	1.66E-06	10160	5.6	2.86E-07	10503	3.3	8.29E-03
8431	-3.2	9.11E-03	8715	-4.3	4.80E-04	8980	-4.0	1.33E-03	9248	6.6	2.05E-06	10161	-4.9	1.70E-03	10505	3.9	5.42E-04
8434	-8.2	3.08E-03	8717	-6.1	4.48E-03	8981	-6.3	2.24E-07	9264	4.1	4.35E-04	10162	-4.8	5.83E-05	10513	-5.0	4.57E-05
8454	-8.0	1.10E-11	8724	9.4	6.11E-10	8985	-9.5	1.97E-04	9273	-3.9	3.22E-03	10163	5.9	3.29E-06	10515	-6.0	2.65E-03
8456	4.1	4.81E-04	8728	-9.5	9.47E-15	8997	3.6	3.21E-03	9281	-6.1	5.11E-07	10176	3.2	6.35E-03	10520	-12.3	6.39E-09
8460	-3.9	3.55E-03	8733	-6.0	2.66E-06	9001	-5.1	1.55E-04	9284	-3.6	4.32E-04	10178	3.3	4.95E-03	10524	-6.2	9.39E-08
8466	6.4	8.32E-07	8740	5.1	4.45E-08	9003	4.4	2.04E-04	9288	-6.6	2.59E-08	10194	-4.8	7.73E-05	10530	4.2	3.70E-03
8467	3.9	6.23E-04	8747	3.2	7.30E-03	9005	-3.8	5.82E-03	9293	-3.6	3.22E-03	10198	3.9	7.12E-03	10533	-4.9	1.57E-03
8476	-4.7	3.14E-05	8751	-3.4	1.43E-03	9006	3.1	9.89E-03	9294	-3.7	2.71E-03	10199	8.6	1.65E-14	10539	3.6	1.40E-03
8477	-4.6	4.15E-05	8752	5.5	9.79E-03	9009	-5.1	4.78E-05	9300	5.5	3.63E-06	10200	8.0	7.42E-11	10547	-8.5	2.65E-08
8478	-4.6	5.21E-05	8756	4.8	7.54E-05	9010	-3.3	2.80E-03	9304	-3.2	4.85E-03	10212	-8.0	1.32E-07	10548	4.1	5.17E-04
8490	-6.9	3.24E-03	8757	-3.7	4.51E-03	9011	5.9	6.16E-07	9307	3.6	9.66E-03	10222	-8.2	1.19E-03	10550	-4.5	2.48E-04
8501	10.0	1.60E-08	8761	-4.4	1.65E-03	9030	4.3	1.24E-04	9313	-8.0	7.13E-04	10241	-3.5	3.74E-03	10554	-4.3	6.57E-03
8508	-6.4	6.06E-08	8767	-5.4	1.98E-04	9037	5.9	3.65E-06	9315	-3.3	4.70E-03	10258	-5.6	1.25E-04	10561	-4.8	2.05E-03
8509	7.1	1.47E-03	8773	-4.3	2.06E-04	9040	-5.7	2.21E-06	9319	3.5	2.51E-03	10268	-5.0	9.59E-06	10563	-6.8	2.10E-05
8512	-8.3	2.26E-03	8780	5.7	9.38E-04	9043	-7.5	2.67E-05	9324	-7.9	8.90E-03	10274	-5.4	4.75E-04	10567	3.8	8.55E-04
8520	-8.1	1.78E-03	8792	-6.4	7.27E-04	9046	-8.0	3.12E-08	9326	-5.6	1.77E-04	10286	-3.6	3.78E-03	10569	3.5	4.32E-03
8537	-3.8	1.17E-03	8795	-3.0	4.52E-03	9050	-8.4	2.42E-09	9329	-6.4	1.03E-08	10289	-8.5	3.44E-08	10576	-7.8	9.18E-12
8539	4.6	4.43E-05	8800	9.2	5.02E-06	9052	4.0	1.05E-03	9330	-5.2	1.79E-05	10296	-4.1	1.25E-03	10579	-6.8	1.07E-03
8545	6.0	2.79E-06	8801	-7.5	1.91E-05	9054	-4.4	4.80E-03	9339	-3.1	9.73E-03	10299	6.0	2.18E-04	10582	2.5	2.97E-03

8547	-6.6	1.33E-03	8805	-8.6	8.48E-14	9055	-5.6	1.49E-05	9347	-7.5	2.22E-11	10300	-5.6	9.92E-06	10588	4.4	2.62E-04
8548	-7.2	2.10E-03	8808	5.5	1.04E-06	9056	-4.4	9.86E-05	9349	-7.7	2.28E-06	10302	3.7	1.29E-03	10590	-3.2	4.67E-03
8559	5.3	5.88E-06	8810	-2.8	9.75E-03	9065	4.6	1.60E-03	9355	5.3	1.04E-06	10305	-5.8	3.66E-07	10599	-5.2	1.09E-03
8563	3.9	4.40E-03	8822	-4.8	6.68E-05	9068	5.0	2.19E-04	9360	-4.3	7.63E-03	10312	-3.5	3.12E-03	10601	-5.6	1.51E-05
8574	5.2	2.76E-05	8825	-4.9	2.76E-05	9069	7.3	1.16E-03	9362	-4.5	7.79E-04	10313	-3.3	6.10E-03	10603	-4.6	1.67E-04
8576	-6.1	2.16E-06	8832	-9.2	2.90E-05	9074	3.7	9.34E-03	9368	6.9	1.09E-09	10315	-5.0	1.37E-03	10604	-5.7	2.26E-05
8577	3.2	6.40E-03	8838	-4.3	6.58E-03	9082	-4.5	1.07E-04	9369	3.3	3.67E-03	10329	-6.0	4.59E-06	10608	-3.7	4.06E-03
8579	-5.6	6.25E-04	8839	-7.4	2.05E-04	9084	-7.3	1.05E-07	9381	-3.6	6.62E-03	10333	6.8	1.34E-08	10612	-4.5	3.52E-03
8589	-5.7	4.92E-04	8841	-6.2	1.46E-05	9087	-6.0	5.49E-09	9383	-4.8	2.16E-05	10337	7.1	1.44E-03	10613	-8.4	5.08E-08
8592	-5.6	2.93E-04	8846	-7.5	1.86E-04	9089	-4.6	3.44E-04	9386	-5.4	1.16E-04	10341	-5.5	3.01E-05	10622	-6.0	1.32E-03
8600	3.7	5.95E-03	8848	-8.8	8.33E-15	9095	-13.3	4.04E-10	9388	-7.2	2.47E-04	10342	4.9	4.47E-04	10625	3.8	8.29E-03
8604	-4.2	2.09E-04	8849	-6.4	1.77E-04	9110	-7.8	5.05E-04	9394	-7.4	3.51E-07	10343	4.1	4.85E-04	10627	-3.9	8.88E-04
8609	-4.8	3.65E-03	8851	-5.2	6.64E-05	9113	-6.3	7.47E-05	9397	-6.2	8.29E-07	10346	-8.2	3.72E-03	10633	-6.0	3.77E-06
8611	-6.0	1.29E-07	8854	-9.9	1.04E-03	9120	-6.4	1.60E-03	9405	-4.3	3.25E-03	10355	3.9	3.46E-03	10634	7.3	2.28E-07
8612	5.1	6.52E-04	8857	5.6	1.79E-06	9122	3.6	5.17E-03	9406	-3.1	1.88E-04	10357	3.6	8.51E-03	10642	-5.1	4.88E-04
8613	-6.0	5.10E-06	8865	-5.8	1.82E-06	9123	-3.0	6.30E-03	9407	-6.0	8.81E-05	10362	-3.4	5.83E-03	10649	6.6	1.33E-08
8614	-5.2	1.25E-04	8874	-4.2	3.08E-04	9125	-7.5	4.92E-05	9415	4.0	1.41E-04	10363	4.1	4.89E-04	10666	-5.7	2.49E-04
8617	7.1	7.56E-05	8875	6.3	6.64E-08	9127	-9.3	6.49E-16	9420	3.9	8.27E-03	10370	5.3	3.93E-06	10668	-11.9	5.80E-09
8621	-8.0	1.45E-04	8883	-9.1	6.67E-05	9129	7.9	3.10E-13	9424	-4.3	1.28E-03	10371	-5.2	1.21E-05	10674	-3.7	1.88E-03
8624	4.6	7.94E-04	8893	3.7	1.37E-03	9132	-6.2	9.48E-09	9437	-8.2	2.74E-04	10372	-3.5	4.71E-05	10677	4.3	2.53E-03
8636	6.4	4.21E-06	8898	-6.1	1.59E-08	9140	5.8	1.16E-03	9448	-5.0	4.85E-05	10373	-3.9	1.58E-03	10678	-7.2	3.57E-03
8647	-3.9	1.43E-03	8899	-3.8	6.73E-04	9142	4.2	4.26E-04	9452	-6.2	1.78E-05	10375	-5.7	4.78E-05	10681	-4.1	3.41E-04
8651	-5.0	1.16E-03	8908	-7.6	5.77E-12	9146	-3.6	2.22E-03	9453	3.5	7.13E-03	10387	-3.1	8.68E-03	10688	-8.1	6.59E-12
8662	-7.7	9.05E-03	8910	3.8	1.61E-03	9158	3.9	3.83E-03	9459	-7.7	1.08E-10	10390	-4.9	6.43E-04	10696	-4.3	3.90E-03
8664	7.3	1.37E-05	8911	3.0	9.15E-03	9159	4.7	4.17E-07	9460	6.2	1.19E-06	10396	-5.1	3.54E-04	10697	4.4	2.50E-03
8674	-3.6	3.93E-05	8919	-5.3	5.24E-05	9161	-4.5	1.15E-04	9468	-4.6	4.68E-04	10399	4.6	1.17E-04	10711	-4.7	4.45E-05
8675	-3.8	1.79E-03	8921	8.5	1.91E-07	9165	2.9	8.91E-04	9483	-5.3	6.08E-04	10402	-5.4	2.41E-06	10715	-5.5	3.36E-03
8676	-4.7	1.95E-05	8922	-4.2	2.64E-04	9166	-4.9	1.84E-05	9486	-6.3	6.95E-03	10422	5.7	4.47E-03	10724	-12.6	7.92E-07
8680	-4.0	4.90E-03	8928	-10.7	9.78E-16	9178	-5.0	2.56E-03	9487	-7.2	1.18E-03	10423	5.0	1.16E-04	10731	-9.5	5.40E-05
8683	-9.0	2.58E-09	8930	3.8	9.42E-03	9179	-5.0	2.40E-03	9491	-7.3	1.76E-04	10436	-5.8	1.06E-03	10733	5.7	1.49E-04
8685	-6.0	4.35E-03	8938	3.8	1.92E-04	9183	-6.4	1.83E-08	9493	-4.3	1.79E-04	10438	6.4	9.16E-10	10734	10.1	4.98E-16
8686	4.3	4.71E-05	8941	-9.7	8.85E-06	9184	5.6	4.84E-06	9494	-7.6	1.30E-03	10441	-3.7	5.39E-03	10741	-6.5	1.78E-04
8690	-6.9	1.45E-06	8952	4.8	1.37E-03	9187	-2.5	7.94E-03	9498	-5.8	6.02E-07	10444	-6.1	1.88E-06	10752	-4.5	1.65E-04
8693	-9.8	1.03E-13	8953	-4.3	5.44E-03	9192	-4.1	9.18E-04	9500	-4.9	8.82E-05	10448	-4.4	3.09E-04	10758	-11.6	6.07E-09
8694	4.0	3.19E-03	8954	4.5	4.69E-05	9193	-8.6	9.42E-04	9508	3.1	6.75E-03	10449	-3.1	7.20E-03	10760	-4.5	1.33E-04
8699	5.1	9.13E-06	8955	6.0	1.61E-07	9196	-5.7	2.78E-05	9510	5.1	6.64E-04	10454	3.4	3.02E-03	10763	-9.3	7.62E-06
8700	6.4	1.26E-05	8957	6.8	7.91E-07	9201	3.4	7.48E-03	9517	-5.9	6.79E-06	10456	-8.2	5.00E-09	10770	-3.8	6.17E-03
8704	-4.7	4.88E-03	8959	-4.3	3.85E-03	9213	4.3	4.71E-03	9519	-8.0	9.17E-05	10461	-4.8	8.83E-03	10774	6.1	1.65E-03
10805	-7.6	6.71E-04	8960	-5.5	4.55E-06	9216	-3.3	6.24E-03	9521	-4.4	1.35E-04	10468	-3.3	1.30E-03	10778	4.4	1.25E-04
10811	-5.4	4.66E-03	8963	-7.5	5.46E-06	9219	-3.8	1.29E-03	9529	4.3	3.62E-04	10474	-5.6	5.47E-05	10791	-3.0	9.33E-03
10815	4.1	5.85E-04	8965	-4.7	7.79E-05	9222	5.5	8.94E-03	9531	-9.3	4.41E-16	10487	-4.5	1.88E-03	10798	4.9	1.78E-05
10820	-5.0	3.53E-03	11213	-6.8	1.07E-03	11618	4.3	2.17E-03	9540	-4.8	3.08E-04	12170	-8.0	2.47E-08	12529	4.5	2.55E-04
10829	3.8	8.95E-04	11233	-4.6	2.11E-03	11619	7.3	4.25E-10	9543	-5.1	1.66E-05	12174	-9.1	1.81E-17	12534	-5.6	3.15E-04

10832	-5.9	1.15E-03	11236	-8.6	1.28E-07	11637	-6.7	3.61E-04	9544	2.5	8.26E-03	12183	-6.4	9.50E-05	12536	-6.2	5.94E-08
10838	4.1	4.54E-04	11239	-5.6	2.62E-04	11638	-5.2	7.74E-03	9548	3.5	7.14E-04	12184	-4.1	8.52E-04	12539	3.2	9.13E-03
10842	4.0	4.73E-03	11244	6.1	3.16E-08	11649	-4.8	5.58E-05	9553	-3.5	3.42E-03	12186	3.6	2.38E-03	12544	5.6	1.12E-04
10858	3.4	7.70E-03	11249	-4.1	3.71E-04	11684	5.1	6.23E-04	9557	-6.2	2.62E-07	12190	-7.1	3.77E-09	12546	6.0	1.18E-07
10864	4.0	1.71E-03	11251	6.1	4.76E-07	11686	4.2	2.98E-04	9558	-6.2	2.65E-07	12200	6.1	8.53E-06	12547	-4.5	1.91E-04
10865	3.8	1.97E-03	11254	-4.3	1.66E-06	11701	-6.2	1.40E-06	9570	-3.7	1.78E-03	12205	7.0	3.59E-03	12552	-5.2	2.13E-03
10872	-8.5	8.32E-10	11277	5.8	3.40E-06	11702	8.5	3.54E-12	9575	7.6	2.77E-10	12208	3.2	5.87E-03	12557	-6.6	6.44E-06
10888	-9.5	8.74E-14	11280	8.6	1.32E-04	11719	-4.5	6.89E-04	9578	6.7	2.90E-04	12210	5.8	8.43E-06	12577	-3.6	2.43E-03
10889	-6.7	1.77E-09	11289	4.8	1.01E-03	11728	-7.0	1.67E-06	9580	-4.0	4.58E-04	12214	4.3	4.61E-03	12581	-5.3	1.72E-04
10897	7.2	9.40E-03	11292	4.7	2.90E-03	11742	6.3	8.43E-04	9581	-3.9	6.05E-04	12215	-6.6	2.03E-03	12590	-11.7	7.45E-09
10917	-7.7	1.12E-07	11294	-6.8	2.66E-05	11744	-4.2	1.99E-03	9587	7.0	3.91E-09	12230	10.9	3.19E-06	12594	7.1	1.16E-06
10923	-8.0	1.47E-05	11306	-9.2	1.49E-18	11757	-4.5	4.67E-04	9589	-4.0	9.47E-04	12232	6.7	1.93E-08	12596	-4.3	6.97E-04
10924	4.1	2.89E-04	11311	-6.3	2.55E-08	11767	-7.3	9.58E-04	9590	-3.4	2.81E-03	12235	-5.6	5.91E-04	12597	-3.9	1.17E-03
10926	-6.9	1.09E-03	11314	-5.3	9.15E-06	11772	6.3	4.65E-05	9598	-5.6	6.21E-05	12242	-3.7	9.98E-04	12598	-5.9	1.53E-05
10928	-5.9	1.92E-03	11315	7.4	2.16E-05	11776	-3.4	4.17E-03	9615	-4.4	2.88E-04	12250	-5.4	1.60E-05	12605	-4.7	5.63E-05
10943	-8.6	1.31E-06	11316	-4.5	3.84E-04	11779	3.7	1.34E-03	9617	-5.5	1.65E-04	12260	-5.6	3.22E-03	12610	-8.9	3.05E-04
10950	4.3	6.97E-04	11321	-8.1	2.96E-10	11788	-7.5	5.75E-03	9619	5.0	1.64E-03	12261	-4.6	2.68E-04	12611	3.6	3.33E-03
10965	4.5	8.54E-05	11323	-5.3	1.98E-03	11801	-6.8	3.34E-03	9625	6.6	9.28E-03	12287	-5.7	1.79E-03	12613	-4.1	2.97E-03
10973	-11.0	8.47E-05	11324	-3.1	7.06E-03	11803	-6.3	1.02E-05	9628	-5.4	8.46E-04	12288	3.2	7.38E-03	12614	-5.7	1.25E-04
10977	-6.1	1.19E-06	11337	4.0	2.28E-04	11815	5.5	4.50E-05	9633	-7.2	4.88E-04	12291	5.1	2.47E-06	12617	-5.0	2.94E-03
10980	4.7	3.07E-05	11338	-4.1	9.11E-04	11818	-7.5	3.62E-06	9636	-4.8	1.06E-03	12292	3.9	4.58E-04	12623	-4.3	3.66E-04
10985	-6.9	1.35E-09	11340	7.3	1.36E-09	11819	-5.4	2.58E-03	9647	-11.4	2.06E-06	12293	-8.1	6.80E-07	12625	3.3	4.03E-03
10987	-5.0	1.84E-03	11344	4.4	3.95E-04	11833	-4.5	1.88E-03	9657	6.1	1.19E-04	12295	-5.7	1.25E-04	12630	6.1	2.12E-03
10991	8.6	5.22E-09	11348	-5.5	1.85E-03	11839	-5.7	1.01E-04	9665	-8.0	1.16E-08	12296	4.3	5.00E-04	12636	-5.8	1.07E-04
10992	-3.9	2.45E-03	11355	-10.2	1.48E-10	11863	-6.7	1.80E-09	9670	7.3	3.68E-09	12304	-7.0	8.65E-11	12644	-5.8	4.24E-06
10995	-4.8	4.51E-04	11359	-6.4	1.63E-08	11873	5.9	2.22E-06	9672	-6.7	1.76E-09	12310	6.4	3.34E-03	12649	-7.0	1.78E-03
11000	-4.8	8.73E-03	11381	-5.1	5.93E-03	11875	-6.6	2.20E-03	9673	6.8	2.53E-05	12315	5.5	1.26E-03	12652	-7.3	6.23E-04
11003	-7.7	2.17E-04	11382	-5.4	6.24E-06	11888	-8.8	2.87E-06	9680	4.7	9.05E-05	12326	-3.7	1.83E-03	12656	-7.7	8.66E-10
11009	-4.9	7.60E-04	11384	-4.1	5.82E-04	11890	-3.5	1.48E-03	9684	-6.0	2.63E-06	12327	-5.9	1.70E-05	12657	5.4	2.06E-04
11012	-3.9	7.76E-04	11386	-11.3	1.23E-08	11894	4.7	1.11E-04	9685	-4.0	7.31E-03	12336	5.0	1.58E-05	12666	-4.2	7.60E-03
11040	-4.0	6.91E-04	11390	-5.0	1.77E-04	11896	-5.8	6.52E-07	9687	-3.7	3.35E-03	12343	-7.7	7.20E-05	12667	6.4	9.54E-03
11047	-4.7	1.68E-04	11399	6.4	9.14E-07	11898	-7.0	1.27E-09	9688	5.7	1.01E-06	12356	-4.6	5.97E-04	12668	-4.1	2.42E-03
11060	5.8	6.77E-06	11408	-6.9	1.49E-07	11900	-7.8	3.64E-06	9691	-7.0	2.04E-09	12358	-6.4	4.44E-08	12673	-6.9	1.99E-09
11065	6.5	6.11E-10	11415	-12.6	2.11E-08	11908	3.8	1.01E-03	9692	4.7	3.37E-04	12359	-2.5	9.03E-03	12674	5.2	1.28E-05
11085	-5.6	9.98E-06	11427	-5.3	2.58E-04	11929	3.8	6.79E-05	9696	-4.3	9.81E-03	12365	-3.5	4.44E-03	12675	-3.6	6.96E-03
11088	6.9	2.79E-09	11437	4.6	2.71E-03	11933	-3.7	2.82E-03	9698	8.9	3.52E-13	12368	6.4	1.27E-09	12676	-3.7	8.00E-03
11096	6.5	1.40E-03	11444	3.5	9.13E-03	11934	4.8	6.34E-05	9699	-6.7	1.09E-06	12376	3.3	8.07E-03	12677	-5.0	2.27E-03
11097	-5.7	2.06E-06	11450	-6.5	5.51E-08	11935	5.2	3.20E-04	9707	-5.4	7.96E-06	12391	-5.3	5.29E-03	12681	-3.9	9.24E-03
11101	4.6	2.59E-04	11456	3.3	9.93E-03	11936	-6.7	1.35E-09	9708	4.7	1.24E-03	12393	5.7	9.78E-07	12684	-5.6	1.82E-04
11102	5.6	8.50E-06	11458	4.5	2.24E-03	11940	-4.9	2.96E-05	9712	-10.2	4.18E-04	12406	-4.1	7.00E-03	12688	-4.3	9.40E-03
11103	3.3	5.27E-03	11462	5.9	5.18E-04	11947	-4.9	1.12E-05	9714	4.2	9.77E-04	12409	4.4	1.33E-04	12705	-3.2	8.42E-03
11108	-4.9	8.09E-05	11468	-7.2	3.56E-04	11950	-2.3	8.64E-03	9715	-5.3	4.06E-06	12415	7.5	4.80E-03	12706	7.4	1.66E-10
11122	-4.8	5.24E-03	11471	3.5	1.87E-03	11961	-4.8	5.05E-05	9716	5.5	4.95E-06	12423	-3.3	8.72E-03	12718	-6.6	3.59E-04
11127	-4.2	5.66E-04	11485	-4.9	2.80E-03	11966	5.7	1.47E-03	9719	-4.3	3.55E-04	12433	-3.2	5.76E-03	12725	-8.1	4.29E-11

11136	4.7	1.21E-04	11489	7.6	4.93E-05	11986	4.1	1.34E-03	9722	-3.6	6.45E-03	12443	4.1	1.37E-03	12746	5.6	4.91E-07
11151	4.9	9.11E-03	11495	6.4	1.54E-08	11998	5.7	1.31E-03	9725	-7.1	1.40E-08	12444	-6.3	7.11E-05	12747	-7.1	4.92E-05
11153	-3.4	4.79E-03	11497	6.7	2.33E-07	12000	-5.8	6.71E-07	9730	-7.7	3.77E-07	12465	-11.7	8.27E-09	12756	-5.9	1.78E-05
11157	-5.9	3.96E-06	11520	-7.5	2.23E-04	12010	5.8	1.34E-04	9732	-7.7	2.69E-05	12466	-6.2	4.75E-05	12760	-4.7	2.85E-05
11159	9.9	6.11E-18	11521	8.5	5.51E-06	12013	-5.1	3.23E-05	9736	-3.3	4.68E-03	12469	-7.5	1.72E-04	12795	3.7	1.52E-03
11166	-9.0	6.26E-14	11547	6.3	1.13E-06	12022	-7.2	1.40E-04	9746	6.2	4.04E-04	12477	-10.2	1.47E-10	12799	6.2	6.90E-06
11172	-5.5	2.62E-07	11549	-10.2	1.35E-10	12032	8.4	6.75E-10	9747	-12.1	2.16E-09	12489	-4.2	5.46E-03	12804	-14.0	5.68E-05
11173	7.1	1.19E-08	11553	4.7	1.12E-04	12036	4.9	4.98E-05	9749	3.2	4.72E-03	12493	-4.3	2.34E-04	12821	-5.8	1.35E-03
11177	8.6	3.84E-04	11556	9.7	1.80E-11	12059	-7.1	3.20E-04	9751	4.3	7.30E-03	12496	4.6	3.89E-03	12826	5.1	4.20E-03
11184	8.6	1.69E-11	11569	-5.0	3.75E-05	12061	4.4	1.75E-04	9757	-9.0	4.39E-03	12498	7.5	1.97E-11	12840	-6.1	3.72E-03
11189	4.6	8.26E-05	11581	-3.9	7.99E-04	12066	4.5	1.32E-04	9768	-7.6	2.90E-04	12499	4.5	8.46E-05	12847	-7.8	6.97E-05
11191	-5.7	7.08E-07	11582	2.8	3.78E-03	12073	-5.8	3.72E-04	9779	7.2	1.12E-03	12500	-5.2	5.74E-03	12850	4.6	9.90E-05
11196	3.5	1.90E-03	11591	4.3	2.31E-04	12076	3.8	1.42E-03	9780	-4.6	4.09E-03	12506	6.7	1.45E-05	12859	-3.7	1.61E-03
11201	-4.7	2.30E-03	11594	3.3	4.39E-03	12126	4.2	2.02E-04	9781	-4.9	3.34E-04	12509	-6.1	1.77E-04	12865	16.0	5.51E-07
11206	-7.9	8.21E-12	11600	-5.8	5.13E-07	12130	-11.7	7.41E-05	9782	-7.4	4.63E-11	12510	-7.1	4.13E-07	12880	4.4	1.83E-03
12889	8.1	1.45E-11	11601	-6.5	1.03E-08	12151	-6.1	1.67E-03	9813	3.9	8.68E-04	12519	-5.0	7.27E-05	12885	3.4	3.98E-03
12893	-5.5	1.71E-06	11605	-8.1	6.81E-12	12153	-3.9	7.42E-03	9815	3.4	3.60E-03	12521	7.1	2.85E-09	12887	6.9	4.10E-07
12902	-6.2	6.46E-08	11607	5.9	5.68E-06	12154	-4.7	7.41E-05	9817	2.6	6.10E-03	12524	5.3	1.67E-05	12888	-5.7	5.67E-06
12905	-3.9	1.29E-03	13276	4.5	6.07E-05	13814	-8.6	8.26E-08	9818	2.9	1.92E-03	14307	3.1	8.63E-03	14734	-6.7	1.14E-07
12909	-5.0	2.74E-05	13305	-5.6	4.80E-05	13819	3.7	1.62E-03	9819	-5.9	5.01E-07	14309	7.7	7.29E-11	14781	-6.1	3.86E-03
12913	4.4	1.75E-03	13312	-3.4	3.24E-03	13837	5.1	9.74E-04	9825	-3.7	7.32E-03	14310	-3.3	4.41E-03	14783	6.8	9.77E-10
12917	3.7	2.74E-03	13315	-8.8	4.59E-03	13838	3.9	1.36E-03	9829	5.2	4.53E-04	14313	3.5	2.25E-03	14791	6.3	1.54E-06
12926	-5.5	2.27E-03	13324	4.4	1.30E-04	13839	-6.0	4.67E-07	9838	-4.8	3.83E-05	14330	-9.1	8.58E-17	14806	-8.6	4.19E-05
12927	-7.3	3.85E-11	13328	9.7	2.05E-11	13845	-4.5	2.97E-04	9844	5.8	1.03E-03	14333	3.3	4.30E-03	14807	-8.6	4.08E-06
12933	-4.8	1.84E-03	13336	-6.4	1.63E-07	13857	4.5	1.48E-04	9847	5.2	1.07E-04	14334	-5.1	3.32E-05	14808	3.6	2.26E-03
12938	-7.8	6.04E-05	13355	-3.6	3.23E-03	13860	-6.9	2.54E-05	9848	5.3	3.28E-03	14344	6.0	1.64E-06	14815	-6.8	2.42E-03
12940	7.9	5.56E-10	13367	5.5	6.86E-07	13871	3.2	2.69E-04	9851	-6.1	8.77E-03	14355	-5.5	1.85E-04	14817	-8.0	4.61E-07
12946	-5.1	4.61E-03	13378	-6.1	3.18E-03	13873	-5.3	1.05E-06	9860	-5.8	1.17E-04	14377	6.3	1.11E-07	14831	-5.1	1.22E-04
12948	-5.0	3.44E-03	13381	-6.3	2.29E-04	13891	-4.1	9.22E-03	9863	-6.9	1.33E-06	14379	-6.0	4.14E-03	14839	-6.4	2.54E-08
12952	7.3	1.48E-10	13403	-3.7	1.56E-03	13898	5.2	3.14E-04	9866	-4.1	9.93E-04	14381	-10.2	6.72E-11	14866	4.7	1.72E-04
12963	-4.9	5.16E-05	13404	-7.4	5.92E-03	13903	-4.1	6.43E-03	9867	-5.3	2.61E-06	14382	3.2	7.74E-03	14873	-3.4	3.31E-03
12975	6.0	1.51E-06	13406	-3.4	3.86E-03	13914	-12.1	1.36E-05	9868	-6.3	2.99E-06	14390	4.2	5.60E-03	14883	9.4	5.70E-04
12977	6.4	8.34E-06	13413	8.8	5.06E-04	13916	-7.6	7.96E-05	9869	-8.6	2.32E-09	14391	-3.7	1.86E-03	14886	5.1	8.16E-06
12981	-3.8	5.48E-03	13420	6.7	3.06E-05	13917	-3.1	7.18E-03	9870	3.1	8.16E-03	14406	-8.0	1.46E-05	14891	-8.1	5.15E-09
12993	5.3	4.53E-06	13423	-3.9	1.05E-03	13923	-4.0	8.94E-03	9874	-4.1	1.14E-03	14409	3.6	1.20E-04	14893	-5.4	2.33E-03
12994	-4.8	3.38E-05	13432	4.1	5.01E-04	13930	-4.0	4.28E-03	9886	5.5	1.59E-04	14411	-4.4	1.02E-04	14898	2.8	5.08E-03
12997	-5.4	2.32E-03	13434	5.6	1.20E-05	13934	-3.1	8.89E-03	9889	5.9	7.79E-05	14414	2.4	3.28E-03	14899	3.6	8.41E-03
13003	-6.0	1.41E-04	13441	3.2	5.97E-03	13939	-3.4	3.98E-03	9891	5.1	3.67E-05	14424	-7.2	1.17E-05	14904	4.6	4.37E-05
13009	-4.5	1.57E-04	13455	-5.6	1.10E-07	13949	-5.2	2.10E-03	9907	-5.7	9.90E-03	14426	-4.2	1.01E-03	14915	6.4	2.22E-07
13011	6.0	2.56E-07	13457	-6.0	2.15E-06	13960	-7.6	1.21E-04	9917	-3.7	8.63E-03	14434	-4.0	1.07E-04	14925	7.5	6.68E-11
13024	10.2	3.31E-05	13472	-5.4	4.61E-03	13963	-5.7	3.44E-06	9921	4.9	1.16E-03	14441	4.6	7.51E-05	14937	6.2	1.49E-08
13043	7.4	1.04E-10	13491	-9.0	2.95E-03	13971	5.9	2.14E-05	9927	5.5	7.07E-04	14448	-5.0	2.86E-04	14940	9.1	1.40E-08
13051	6.0	1.80E-07	13492	11.2	3.38E-05	13984	-6.4	5.22E-08	9945	-6.5	4.31E-08	14454	6.3	1.74E-04	14948	-5.1	3.99E-05

13054	-3.4	5.61E-03	13501	-3.3	4.57E-03	13998	4.0	8.36E-03	9946	10.6	9.35E-19	14469	-3.7	8.51E-03	14957	4.3	4.48E-04
13059	6.0	2.07E-06	13512	3.1	8.91E-03	14015	-6.9	4.78E-08	9949	-5.5	1.60E-03	14472	-3.6	7.57E-03	14960	-3.2	3.94E-03
13060	3.5	5.39E-03	13517	-6.6	4.06E-05	14019	7.2	2.65E-11	9952	8.6	5.47E-08	14476	9.4	9.63E-09	14966	-6.0	1.62E-07
13063	-4.3	7.72E-03	13523	3.5	8.17E-03	14026	-3.3	6.75E-03	9957	-6.1	1.57E-06	14484	4.9	1.26E-05	14972	5.3	4.83E-06
13065	-6.3	2.16E-07	13527	-4.9	2.86E-05	14030	5.9	7.63E-05	9959	4.7	9.05E-05	14491	-6.9	4.13E-08	14974	-6.2	1.81E-05
13072	-10.8	1.69E-04	13529	5.2	8.13E-04	14031	-4.0	1.14E-03	9962	-4.0	8.94E-04	14494	-8.7	1.93E-08	14975	6.1	4.22E-05
13075	7.5	7.14E-11	13533	-3.6	9.66E-03	14039	7.0	6.43E-03	9973	-4.5	2.22E-03	14498	-9.3	1.27E-07	14989	-9.1	2.38E-05
13086	-12.8	1.89E-06	13538	-6.4	7.29E-07	14052	-6.1	4.51E-07	9981	-10.6	4.20E-20	14504	-10.1	2.62E-05	14990	-6.2	3.38E-03
13089	-4.9	4.44E-03	13560	-3.9	3.05E-03	14071	-5.3	7.68E-06	9982	-3.1	6.69E-03	14523	7.0	3.96E-10	15001	-4.9	2.20E-03
13094	-4.0	1.44E-03	13575	12.9	2.30E-06	14081	-5.3	1.77E-03	9983	-4.0	8.37E-03	14524	-10.1	1.18E-10	15003	-8.9	6.45E-15
13103	6.8	1.55E-08	13578	6.6	1.54E-08	14086	-6.9	4.08E-09	9989	5.6	2.47E-05	14535	-3.4	6.82E-03	15007	-9.9	1.91E-04
13105	6.7	2.38E-06	13600	6.5	1.12E-04	14090	-4.8	9.18E-03	9992	-7.3	9.29E-05	14560	-6.4	1.51E-05	15008	-5.7	2.97E-04
13116	-4.5	2.80E-03	13608	3.9	6.22E-04	14101	6.7	3.24E-05	9995	4.9	2.66E-05	14582	5.3	1.93E-05	15018	-3.4	3.82E-03
13124	-3.1	2.69E-04	13614	-5.3	7.59E-06	14106	4.1	9.32E-05	10006	-6.3	2.50E-08	14602	-2.9	2.46E-03	15032	9.6	1.08E-03
13126	-6.1	5.53E-07	13622	4.5	2.75E-03	14111	-6.8	2.89E-08	10010	-4.1	6.15E-04	14603	3.8	9.74E-04	15043	3.9	1.32E-03
13128	-10.6	1.29E-06	13629	7.8	1.31E-11	14113	6.5	6.47E-07	10011	-7.6	9.30E-10	14612	-7.6	9.39E-12	15047	-6.0	1.24E-06
13132	4.6	9.55E-05	13632	-5.1	1.24E-03	14125	-3.8	7.17E-03	10023	-4.5	6.67E-05	14628	-3.0	3.12E-03	15060	-6.0	6.04E-07
13139	6.2	3.92E-05	13642	4.0	1.44E-03	14153	-4.4	3.48E-03	10026	-3.3	7.48E-03	14629	5.2	1.97E-04	15062	-11.0	7.56E-08
13142	-8.3	3.16E-07	13646	4.7	5.27E-05	14160	-3.4	4.63E-04	10039	-5.7	2.26E-05	14630	-5.4	2.02E-05	15104	3.8	2.50E-03
13143	7.4	5.28E-08	13663	-4.8	2.47E-04	14164	-4.1	1.30E-03	10044	4.6	4.91E-05	14631	-5.7	1.97E-07	15113	-8.4	1.48E-05
13149	4.5	1.61E-03	13676	9.7	2.27E-05	14176	-7.0	4.58E-04	10062	-6.3	6.79E-09	14649	5.3	2.37E-05	15114	-6.6	4.87E-07
13151	-7.0	8.95E-05	13700	-4.1	1.15E-03	14178	-4.0	1.49E-05	10066	-7.7	2.09E-11	14651	4.8	6.27E-05	15121	5.8	7.61E-03
13154	-5.7	7.93E-06	13707	-12.6	3.20E-07	14189	6.3	1.64E-04	10076	-4.4	1.30E-04	14658	4.0	8.35E-05	15128	4.3	6.10E-04
13161	-5.6	1.67E-07	13710	4.0	1.11E-04	14194	-8.6	2.09E-07	10077	-4.5	1.76E-07	14659	5.9	3.35E-07	15131	-4.5	1.37E-04
13178	3.5	2.26E-03	13713	-3.2	5.84E-03	14195	-3.9	5.50E-03	10079	7.6	1.85E-05	14661	-3.5	4.78E-03	15132	-6.2	1.25E-03
13184	-4.8	5.44E-04	13727	-4.0	4.66E-03	14197	-7.1	5.82E-05	10081	-3.2	8.47E-03	14663	5.5	7.80E-04	15133	-10.1	2.32E-03
13201	5.9	6.62E-03	13741	-3.4	3.70E-03	14237	-5.7	7.03E-05	10084	5.8	1.00E-05	14665	-10.4	2.48E-05	15147	-3.1	7.52E-03
13210	5.8	1.45E-06	13760	-5.2	3.95E-05	14244	-8.4	2.26E-14	10092	-4.3	2.37E-04	14669	4.8	6.22E-05	15149	-8.4	1.26E-05
13211	-6.2	3.86E-03	13763	-5.6	2.03E-03	14246	-3.4	3.07E-03	10095	5.9	2.36E-10	14672	5.4	1.21E-06	15150	6.3	8.49E-06
13212	3.6	4.47E-03	13766	-5.1	5.42E-04	14259	-5.2	6.08E-03	10102	6.7	1.39E-04	14688	5.2	9.47E-04	15164	5.2	1.41E-05
13214	5.9	1.86E-06	13767	-5.2	7.41E-06	14260	-3.6	2.40E-03	10103	-4.3	4.71E-04	14694	-6.3	2.15E-04	15168	-4.1	2.42E-03
13230	-5.7	1.44E-06	13772	4.2	3.55E-04	14265	-3.4	4.69E-03	10107	-4.2	6.04E-04	14695	-4.1	1.82E-03	15172	3.2	4.60E-03
13239	-8.0	5.45E-03	13784	-8.1	2.23E-03	14281	5.5	1.08E-04	10108	-10.0	1.02E-03	14699	7.8	2.85E-11	15175	-6.5	6.78E-03
13253	3.9	4.52E-03	13786	7.4	1.17E-03	14284	-5.4	1.57E-03	10110	6.2	2.09E-07	14700	-3.2	3.94E-03	15184	-6.0	5.92E-07
13255	3.8	9.86E-04	13788	-6.5	9.70E-06	14295	3.4	6.42E-03	10114	8.7	5.84E-07	14705	-4.7	5.46E-04	15187	-6.1	3.80E-03
13264	-3.3	3.16E-03	13793	-6.6	8.16E-07	14296	-5.9	1.40E-07	10117	-3.8	1.49E-03	14709	-5.6	9.03E-03	15192	-5.4	6.93E-04
15209	-3.0	8.12E-03	13798	-4.9	1.47E-04	10957	-2.6	5.00E-02	6860	2.1	5.00E-02						
15211	-7.8	1.46E-08	13805	3.8	1.32E-03	11035	-2.8	5.00E-02	6970	-8.4	5.00E-02						
15239	5.7	2.03E-04	13813	-6.4	7.34E-08	11333	-3.6	5.00E-02	7339	-2.0	5.00E-02						
15243	-5.9	2.20E-04	12727	6.9	5.00E-02	11532	5.8	5.00E-02	7717	4.9	5.00E-02						
15244	-6.2	2.14E-03	12809	8.3	5.00E-02	11640	2.6	5.00E-02	8586	-7.0	5.00E-02						
15248	-7.7	9.82E-06	12861	-5.5	5.00E-02	12116	-1.6	5.00E-02	8697	-1.9	5.00E-02						
15250	7.6	4.71E-07	13234	1.5	5.00E-02	12229	-1.5	5.00E-02	8750	3.6	5.00E-02						

15260	-7.1	1.28E-08	13245	3.1	5.00E-02	12347	-9.1	5.00E-02	8935	-4.5	5.00E-02
15277	-3.5	2.65E-03	13257	-2.3	5.00E-02	12494	-10.6	5.00E-02	9004	53.3	5.00E-02
15289	-6.9	3.77E-07	13330	-25.8	5.00E-02	6560	-3.2	5.00E-02	9206	1.8	5.00E-02
15293	-4.1	1.31E-03	13376	-13.2	5.00E-02	6827	-2.6	5.00E-02	9786	4.7	5.00E-02
15309	4.1	2.40E-04	13598	18.6	5.00E-02						
15329	4.4	5.77E-03	13988	8.3	5.00E-02						
15337	4.2	3.27E-03	14156	-6.2	5.00E-02						
15339	-5.7	1.66E-03	14172	8.2	5.00E-02						
15375	-6.5	1.16E-06	14233	-5.8	5.00E-02						
15379	-4.8	2.44E-04	14343	-13.8	5.00E-02						
14	3.6	5.00E-02	14401	3.3	5.00E-02						
706	-2.6	5.00E-02	14678	20.2	5.00E-02						
819	-7.7	5.00E-02	15006	1.7	5.00E-02						
1124	-2.1	5.00E-02	15210	-16.7	5.00E-02						
2213	-3.4	5.00E-02	15280	4.3	5.00E-02						
2339	11.3	5.00E-02	15298	-1.8	5.00E-02						
2681	1.5	5.00E-02	15313	2.7	5.00E-02						
2718	-2.9	5.00E-02	14297	-5.4	3.06E-06						
2759	-1.2	5.00E-02	14299	4.8	7.79E-05						
2958	-5.6	5.00E-02	14301	4.1	6.33E-05						
3017	-1.3	5.00E-02	10119	-3.4	3.10E-03						
3811	-3.4	5.00E-02	10124	-7.9	6.01E-11						
4094	2.2	5.00E-02	10127	-6.0	3.26E-05						
4124	-3.5	5.00E-02	14722	5.7	7.82E-07						
4660	3.8	5.00E-02	14724	3.6	8.31E-03						
4698	6.2	5.00E-02	14727	6.4	4.29E-07						
5008	-1.4	5.00E-02	15199	4.0	6.20E-04						
5222	2.7	5.00E-02	15204	-4.8	3.35E-04						
5498	2.3	5.00E-02	15206	-3.9	1.52E-03						
6047	3.3	5.00E-02									
6205	3.0	5.00E-02									
6222	-7.9	5.00E-02									
6378	-1.9	5.00E-02									
6403	4.4	5.00E-02									
6425	1.9	5.00E-02									

TABLE 3 - GENETIC MARKERS FOR CELL COUNT

A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
1	-5.7	1.36E-03	3457	-7.7	3.02E-04	7162	-6.5	5.50E-05	10231	4.8	9.04E-03	15008	6.6	3.05E-04
46	5.4	1.22E-03	3463	4.6	1.64E-03	7185	-6.9	1.13E-03	10241	7.7	9.28E-07	15018	4.5	1.84E-03
78	-5.0	4.91E-03	3492	4.6	3.31E-03	7186	-6.8	1.31E-03	10255	9.2	1.48E-04	15022	-5.0	2.15E-03
80	3.6	6.88E-03	3510	5.0	2.01E-03	7195	4.1	9.14E-03	10271	3.4	9.78E-04	15135	-3.9	9.01E-03
99	-4.7	1.29E-03	3514	4.4	3.23E-03	7198	4.5	9.09E-03	10278	4.7	4.48E-03	15191	4.8	1.24E-03
123	3.7	9.52E-03	3550	4.9	2.27E-03	7208	5.4	6.47E-03	10287	-4.4	3.87E-03	15199	-6.3	1.53E-05
141	5.4	1.55E-04	3554	2.9	6.81E-03	7221	4.4	6.25E-03	10337	-7.5	5.63E-03	15331	4.3	8.24E-03
157	5.9	6.59E-05	3560	-5.3	5.75E-04	7230	-5.9	3.97E-04	10345	4.7	1.60E-03	19	-2.5	5.00E-02
186	-8.1	1.88E-06	3574	7.9	8.10E-05	7263	-5.1	6.20E-04	10363	-5.3	4.60E-04	108	-2.2	5.00E-02
202	7.3	6.60E-03	3579	3.2	9.02E-03	7271	6.5	3.84E-06	10378	-6.8	6.28E-06	442	-4.3	5.00E-02
209	4.9	9.15E-04	3588	4.6	3.89E-03	7278	-6.3	4.74E-04	10379	-6.6	1.38E-05	713	-4.2	5.00E-02
212	8.5	3.37E-03	3592	-4.5	4.45E-03	7306	-5.4	2.00E-03	10392	5.6	7.00E-04	1153	3.3	5.00E-02
224	-8.3	7.50E-03	3597	-7.9	9.22E-03	7313	-7.1	1.92E-05	10396	9.5	5.29E-06	1972	-3.1	5.00E-02
251	3.9	8.52E-03	3608	5.5	1.37E-03	7335	-5.2	4.31E-03	10422	-7.7	4.08E-03	2585	24.0	5.00E-02
265	4.1	8.07E-03	3660	4.4	2.77E-03	7340	-5.2	3.88E-03	10439	-5.2	1.13E-03	2690	-12.6	5.00E-02
273	-10.9	3.59E-09	3690	4.2	3.78E-03	7376	4.2	5.67E-03	10468	3.5	7.73E-03	2945	-5.0	5.00E-02
274	-5.0	5.77E-03	3706	4.1	7.65E-03	7378	-9.0	2.91E-03	10515	8.0	4.74E-03	3387	16.3	5.00E-02
287	4.2	8.86E-03	3711	4.6	2.16E-03	7417	-11.5	6.26E-07	10549	-4.8	6.20E-03	3607	-2.1	5.00E-02
288	4.3	6.65E-03	3734	-4.3	7.35E-03	7430	-3.9	7.87E-03	10551	16.4	9.47E-05	3756	6.8	5.00E-02
300	4.8	2.67E-03	3749	5.8	4.78E-04	7439	-5.9	6.60E-03	10567	-3.9	8.92E-03	4066	5.4	5.00E-02
317	-5.1	2.83E-04	3784	-4.7	5.36E-03	7454	5.1	1.53E-03	10569	4.9	1.76E-03	4105	2.1	5.00E-02
337	-5.4	5.02E-04	3785	-4.2	3.98E-03	7471	4.8	2.89E-03	10600	-6.5	6.02E-04	4143	2.0	5.00E-02
352	6.6	5.74E-03	3786	-4.2	3.84E-03	7477	4.1	3.34E-03	10608	4.1	7.55E-03	4263	-2.1	5.00E-02
370	4.8	8.83E-03	3788	5.2	4.26E-04	7497	-5.0	4.96E-04	10685	-4.5	5.35E-03	4511	-3.2	5.00E-02
376	-7.3	5.04E-04	3830	7.7	1.34E-06	7549	6.0	1.37E-04	10688	4.0	9.07E-03	4519	6.7	5.00E-02
407	4.7	3.18E-03	3834	4.6	4.09E-03	7559	4.5	7.48E-03	10711	3.9	7.22E-03	4806	-2.6	5.00E-02
413	5.6	3.46E-04	3874	-5.3	8.41E-03	7561	-5.2	5.49E-04	10740	5.8	2.29E-04	4891	-1.6	5.00E-02
415	-5.0	2.33E-03	3885	-4.9	1.40E-03	7606	-4.6	4.02E-03	10770	7.2	7.60E-05	4903	3.7	5.00E-02
438	4.4	3.40E-03	3895	-5.1	5.13E-04	7643	-3.8	5.39E-03	10773	-4.1	8.01E-03	5173	15.2	5.00E-02
447	-5.6	2.27E-03	3907	-8.9	2.16E-04	7649	5.2	3.88E-03	10774	-9.5	1.04E-03	5268	2.2	5.00E-02
507	4.6	2.38E-03	3910	-3.8	4.04E-03	7718	-7.2	6.54E-03	10777	-8.8	5.61E-03	5364	-10.7	5.00E-02
518	-5.4	3.47E-04	3926	-4.9	8.04E-04	7749	4.9	1.58E-03	10792	-4.1	7.06E-03	5510	-4.4	5.00E-02
546	-5.5	2.53E-04	3929	-4.8	1.25E-03	7787	-6.2	1.67E-05	10799	5.6	5.04E-04	5556	3.9	5.00E-02
552	-4.2	5.99E-03	3938	-8.4	2.55E-05	7788	-4.2	7.56E-03	10877	7.4	4.45E-03	5569	3.9	5.00E-02
559	5.5	1.04E-04	3945	-6.1	3.58E-03	7791	-4.1	7.14E-03	10908	-4.9	5.27E-03	6975	-3.6	5.00E-02
576	-7.2	9.31E-03	3965	-6.7	3.36E-04	7793	-4.8	1.85E-03	10945	-6.2	7.69E-03	7050	-2.9	5.00E-02
592	4.8	4.55E-03	3979	5.7	9.49E-03	7810	4.1	9.85E-03	11009	6.3	6.92E-04	7550	-3.2	5.00E-02
595	-4.1	8.84E-03	3987	7.1	3.34E-06	7812	-9.4	3.57E-04	11038	-3.9	4.06E-03	7798	2.3	5.00E-02
605	6.0	2.16E-04	4017	-4.7	3.61E-03	7813	-8.2	1.96E-03	11047	3.8	9.14E-03	7922	4.3	5.00E-02
644	-4.5	2.43E-03	4039	-5.0	8.38E-04	7827	5.7	7.43E-04	11058	-6.9	1.19E-03	8140	-3.9	5.00E-02
665	5.2	1.52E-03	4045	-4.6	3.05E-03	7854	6.9	7.98E-03	11083	-5.5	8.43E-04	8326	2.5	5.00E-02
683	-4.8	1.48E-03	4098	4.6	2.25E-03	7861	5.7	4.96E-03	11085	8.6	5.54E-08	8536	-3.9	5.00E-02
699	-8.1	3.90E-03	4179	-5.1	4.32E-04	7874	-4.8	2.31E-03	11091	-6.8	2.71E-03	8542	15.8	5.00E-02
754	-5.6	2.88E-03	4191	4.6	1.94E-03	7932	4.9	1.15E-03	11101	-4.1	9.89E-03	9790	2.6	5.00E-02

769	4.4	2.27E-03	4197	5.1	5.97E-04	7951	-7.4	3.28E-06	11154	4.7	3.65E-03	10452	2.4	5.00E-02
784	7.5	1.42E-03	4233	-4.3	7.32E-03	7987	-9.2	1.64E-04	11159	-4.5	2.80E-03	10489	-6.0	5.00E-02
818	-11.8	6.82E-03	4241	-8.8	5.75E-04	8060	4.9	1.07E-03	11172	3.9	4.95E-03	10529	-2.5	5.00E-02
831	-6.3	3.88E-04	4264	4.9	7.23E-03	8073	-6.2	6.69E-04	11186	4.2	6.14E-03	10621	2.2	5.00E-02
844	4.6	4.57E-03	4285	-5.3	7.13E-04	8087	4.3	4.29E-03	11188	-5.4	2.16E-04	10689	-4.9	5.00E-02
849	5.8	2.22E-04	4287	4.2	7.61E-03	8100	4.2	9.17E-03	11244	-5.6	1.35E-04	11001	11.3	5.00E-02
879	-5.5	4.39E-04	4297	-4.8	2.48E-03	8132	6.0	1.84E-04	11289	4.9	9.14E-03	11061	13.6	5.00E-02
886	5.9	4.34E-03	4315	4.9	2.50E-03	8146	5.6	5.52E-05	11294	5.6	3.72E-03	11141	22.7	5.00E-02
913	-4.5	8.05E-03	4316	4.4	5.33E-03	8166	4.3	5.82E-03	11350	-5.9	1.24E-04	11257	-13.4	5.00E-02
915	7.5	9.01E-05	4359	7.8	1.87E-03	8188	-4.1	8.30E-03	11383	-4.9	1.17E-03	11434	-3.0	5.00E-02
945	-4.2	2.83E-03	4386	-4.4	1.88E-03	8191	-9.3	2.91E-06	11403	-6.0	6.07E-04	11708	-26.0	5.00E-02
960	5.5	1.92E-04	4395	4.9	1.43E-03	8199	6.0	3.28E-03	11407	4.0	5.84E-03	11885	-9.6	5.00E-02
963	7.8	4.72E-04	4407	-6.3	3.11E-05	8205	-7.9	7.79E-03	11410	-5.3	3.34E-04	12116	3.5	5.00E-02
993	-7.0	1.44E-06	4487	-4.4	2.29E-03	8240	4.2	6.95E-03	11413	-17.0	1.79E-07	12136	-5.7	5.00E-02
998	7.5	4.41E-06	4505	-5.2	3.06E-04	8262	-5.4	3.49E-04	11458	5.0	8.19E-03	12256	10.5	5.00E-02
1015	4.0	6.08E-03	4512	-5.5	2.34E-04	8270	-4.5	3.23E-03	11486	5.3	1.86E-04	12442	-2.2	5.00E-02
1024	-7.4	3.01E-03	4542	-3.9	8.97E-03	8304	-5.5	4.29E-03	11495	5.6	7.10E-05	12501	-6.1	5.00E-02
1090	11.3	4.63E-03	4568	3.7	1.98E-03	8324	4.1	8.63E-03	11510	-5.0	9.21E-04	12507	2.0	5.00E-02
1091	11.2	6.44E-03	4569	-7.2	4.59E-06	8332	-4.8	7.92E-03	11518	-5.6	5.48E-03	12803	-18.9	5.00E-02
1128	-6.0	3.51E-04	4650	-6.9	1.47E-06	8338	-4.4	3.11E-03	11560	-5.1	1.18E-03	13145	-60.3	5.00E-02
1129	-6.1	2.79E-04	4683	5.5	5.36E-04	8397	-5.9	2.51E-04	11564	6.3	1.37E-04	13233	-33.5	5.00E-02
1141	-6.4	1.49E-04	4688	-5.7	1.33E-04	8406	6.4	1.77E-04	11588	-4.1	7.33E-03	13376	-19.8	5.00E-02
1156	-3.1	5.34E-03	4700	-7.5	5.12E-03	8423	4.7	2.33E-03	11593	5.1	6.21E-03	13536	5.9	5.00E-02
1160	-5.6	3.61E-04	4704	-6.1	6.57E-03	8427	5.9	4.77E-04	11636	-6.0	3.75E-05	13581	-3.8	5.00E-02
1164	5.0	4.19E-03	4725	-4.4	2.60E-03	8429	5.4	1.64E-03	11655	4.4	4.56E-03	13696	-23.1	5.00E-02
1165	-4.2	9.49E-03	4728	-5.4	1.13E-03	8454	4.2	3.72E-03	11666	7.9	2.89E-03	13800	3.1	5.00E-02
1177	4.4	1.71E-03	4737	-6.1	2.34E-04	8455	5.0	5.89E-04	11682	7.1	2.63E-04	14139	-21.9	5.00E-02
1186	5.2	3.33E-04	4738	-5.8	2.73E-04	8463	-9.8	2.07E-03	11707	6.2	4.60E-04	14210	-22.1	5.00E-02
1199	-10.6	7.24E-03	4739	-5.1	5.93E-04	8467	-5.7	1.76E-04	11726	-5.1	5.17E-04	14285	-23.7	5.00E-02
1202	-9.2	9.69E-03	4740	-5.1	4.54E-04	8469	8.5	6.17E-03	11743	4.8	8.98E-03	14577	-13.6	5.00E-02
1213	-7.3	1.18E-05	4753	-3.5	5.60E-03	8476	4.5	2.55E-03	11745	-4.1	4.61E-03	14634	15.5	5.00E-02
1222	4.4	2.38E-03	4773	-6.0	1.86E-03	8477	4.5	2.37E-03	11757	4.4	7.80E-03	14719	-11.3	5.00E-02
1239	-5.6	4.96E-04	4826	-6.0	4.55E-03	8478	4.5	2.91E-03	11785	-6.1	5.82E-05	14852	-20.6	5.00E-02
1246	2.8	6.45E-03	4852	-5.3	3.07E-03	8498	4.5	7.17E-03	11803	6.2	1.49E-04	14855	2.9	5.00E-02
1247	3.3	5.59E-03	4882	7.0	2.44E-05	8509	-7.5	5.46E-03	11806	-5.9	2.49E-03	14995	-4.3	5.00E-02
1306	-6.6	7.43E-05	4905	7.1	1.23E-03	8547	7.9	6.97E-03	11807	-11.0	2.59E-03	15039	16.5	5.00E-02
1307	-7.7	3.08E-04	4946	4.5	2.41E-03	8631	4.3	5.08E-03	11861	5.5	3.20E-03	15091	-16.7	5.00E-02
1320	-4.1	9.00E-03	4965	4.3	9.30E-03	8636	-6.1	8.18E-04	11888	6.9	7.13E-03	5772	-12.0	2.07E-03
1369	5.2	7.33E-03	4974	-4.4	6.81E-03	8646	-6.4	7.06E-03	11896	4.6	2.64E-03	5785	7.0	1.61E-03
1381	-5.7	1.78E-03	5035	-6.3	3.21E-04	8688	4.6	3.68E-03	11897	6.4	1.74E-04	5797	5.4	9.53E-03
1385	4.5	2.74E-03	5066	4.6	2.15E-03	8693	6.2	4.96E-04	11901	3.9	6.57E-03	5815	-5.5	2.73E-03
1394	-6.2	1.87E-03	5098	-4.6	2.54E-03	8725	-5.2	7.96E-04	11907	4.1	9.47E-03	5840	5.6	6.88E-05
1395	-4.7	2.32E-03	5101	6.1	4.08E-04	8733	3.9	9.90E-03	11909	5.5	1.77E-03	5865	6.9	4.51E-03
1404	5.8	2.35E-04	5121	5.2	6.48E-03	8745	5.8	3.31E-04	11917	9.6	1.99E-04	5915	3.9	2.00E-03
1410	5.7	3.19E-04	5164	4.3	3.18E-03	8757	4.3	5.33E-03	11945	-5.2	9.03E-04	5960	10.7	4.29E-03
1421	-3.8	7.50E-04	5185	-6.0	9.63E-04	8774	3.9	9.09E-03	11947	-3.8	9.47E-03	5968	3.9	5.76E-03

1438	-4.9	5.32E-03	5218	-8.5	9.75E-03	8785	-11.8	1.18E-03	12170	5.0	3.90E-03	5972	4.8	1.10E-03
1450	-8.0	5.68E-08	5220	-5.2	4.54E-04	8813	-7.0	8.64E-03	12200	-6.0	2.84E-04	5978	5.2	1.38E-03
1455	6.2	6.60E-03	5253	-4.8	1.93E-03	8815	4.4	2.84E-03	12210	-5.7	8.75E-04	5990	4.8	2.71E-03
1464	-4.9	1.38E-03	5255	4.7	2.28E-03	8840	5.5	6.22E-03	12214	-8.2	9.61E-05	6006	5.1	3.00E-03
1472	4.3	2.35E-03	5263	-6.1	2.23E-04	8843	5.6	4.79E-04	12274	4.8	2.08E-03	6026	-7.4	2.58E-03
1484	9.7	6.63E-03	5275	5.8	2.86E-04	8855	-5.3	6.94E-04	12296	-4.6	2.44E-03	6028	5.6	4.03E-03
1491	-4.2	7.32E-03	5316	-6.4	1.49E-03	8857	-4.1	4.37E-03	12304	5.0	7.76E-04	6040	-3.9	8.34E-03
1505	9.1	9.27E-05	5334	4.4	9.74E-03	8863	-4.9	7.86E-04	12444	7.4	2.97E-03	6071	-4.8	2.08E-03
1518	-5.1	3.27E-03	5335	5.6	2.60E-04	8880	-6.3	7.49E-05	12456	-5.1	1.98E-04	6092	5.7	1.88E-03
1533	-4.1	3.92E-03	5338	-3.5	8.82E-03	8893	-4.7	8.65E-04	12490	-13.5	1.44E-06	6093	5.8	1.27E-03
1596	-4.4	2.46E-03	5339	6.2	2.67E-03	8901	4.3	3.39E-03	12531	-5.1	3.37E-04	6135	-8.3	5.99E-04
1607	6.2	1.68E-03	5344	-4.5	2.13E-03	8927	7.1	1.85E-05	12589	5.2	2.34E-04	6141	-4.6	3.65E-03
1615	8.2	3.27E-03	5367	-4.5	1.50E-03	8930	-6.9	2.40E-04	12591	6.0	1.45E-04	6225	-6.2	8.44E-05
1623	3.8	6.94E-03	5370	5.0	1.83E-03	8948	-3.4	7.29E-03	12658	-4.1	6.53E-03	6243	4.5	7.84E-03
1660	-4.8	5.05E-03	5379	-5.1	3.76E-04	8965	5.2	8.90E-04	12693	5.5	3.38E-04	6271	11.0	8.42E-04
1700	5.4	2.02E-04	5413	-4.0	6.42E-03	8987	5.0	8.02E-04	12711	-4.5	7.56E-03	6342	5.8	3.64E-03
1702	6.6	6.21E-03	5428	5.0	2.56E-03	8999	-5.6	6.91E-03	12728	6.8	2.03E-04	6365	3.9	4.79E-03
1705	7.3	2.24E-03	5454	-5.2	1.11E-03	9022	-8.7	6.00E-03	12735	11.1	3.21E-03	6429	4.4	6.22E-03
1780	-4.6	1.98E-03	5470	5.4	2.13E-04	9026	-7.3	2.48E-03	12738	5.9	4.34E-03	6440	-4.7	1.43E-03
1781	-5.1	9.86E-03	5504	8.4	1.43E-06	9031	5.1	3.95E-04	12743	4.5	2.38E-03	6457	6.3	2.40E-04
1794	-4.7	3.43E-03	5521	-4.8	6.62E-03	9063	-4.1	7.24E-03	12786	-4.9	5.08E-03	6478	4.6	2.57E-03
1833	5.9	9.27E-03	5536	4.6	1.41E-03	9064	-4.3	3.82E-03	12834	7.1	1.11E-04	6542	7.2	4.84E-04
1851	4.6	1.67E-03	5544	10.0	6.15E-03	9087	7.5	1.83E-08	12849	4.9	7.32E-04	6544	-3.8	9.95E-03
1889	5.5	5.72E-05	5557	-5.1	4.63E-04	9089	4.4	6.95E-03	12917	-4.6	2.80E-03	6565	4.0	6.75E-03
1926	-5.6	2.94E-04	5558	-5.1	4.84E-04	9092	6.9	6.01E-06	12940	-4.3	5.94E-03	6581	-6.7	3.16E-04
1974	-3.9	9.16E-03	5563	4.1	2.64E-03	9107	-6.9	3.91E-06	12958	-6.2	4.42E-04	6644	-4.2	4.01E-03
1978	7.2	1.83E-03	5575	-4.6	5.53E-03	9125	-5.2	9.88E-03	12963	3.9	7.87E-03	6658	4.5	2.45E-03
1981	-5.9	2.77E-03	5581	-5.2	1.57E-03	9150	-4.8	2.18E-03	12964	-5.9	2.93E-03	6660	4.9	2.10E-03
1982	4.3	3.43E-03	5588	-5.4	1.56E-03	9258	-8.9	1.13E-04	12996	3.9	8.39E-03	6673	-7.0	2.82E-03
1988	4.4	7.23E-03	5627	6.3	1.12E-04	9268	7.1	4.58E-04	13002	5.1	1.17E-03	6704	3.8	9.06E-03
1990	5.7	7.47E-03	5686	6.8	2.14E-03	9275	5.3	3.81E-04	13008	-7.6	1.85E-03	6732	4.9	1.45E-03
1993	4.4	6.79E-03	5703	-4.5	2.32E-03	9276	-5.1	7.88E-03	13027	3.9	8.68E-03	6763	-5.6	1.95E-03
2003	5.2	3.70E-04	5723	-7.3	1.56E-03	9281	4.9	1.97E-03	13085	-9.3	6.97E-04	6770	-6.0	4.95E-05
2010	4.9	8.92E-04	5731	-5.0	8.49E-04	9285	-4.6	5.92E-03	13124	-3.9	3.83E-04	6782	4.8	9.53E-03
2013	-6.7	2.43E-05	5745	-6.5	6.94E-03	9303	-4.8	7.35E-03	13154	8.6	5.02E-08	6793	-7.3	3.02E-03
2068	-6.0	3.10E-03	6805	4.9	4.45E-03	3127	-5.2	3.78E-04	2877	-11.4	4.91E-03	2608	7.3	4.13E-06
2117	5.4	5.92E-03	6854	6.1	7.21E-04	3143	5.0	1.06E-03	2882	-6.5	9.68E-05	2657	-4.5	7.66E-03
2134	-6.9	3.39E-05	6859	9.1	1.55E-04	3149	4.9	5.55E-03	2924	-6.7	1.36E-04	2687	-5.5	2.94E-04
2138	-5.5	7.04E-04	6865	4.7	8.22E-03	3152	7.5	1.28E-06	2928	5.0	2.00E-03	2697	5.9	4.56E-03
2194	-4.6	9.09E-03	6867	-6.4	4.71E-03	3168	-4.4	2.86E-03	2941	5.3	3.49E-03	2703	-7.7	2.87E-04
2224	-4.0	5.07E-03	6870	7.7	3.37E-03	3183	4.9	1.31E-03	2942	-5.9	5.09E-03	2736	4.6	1.51E-03
2237	7.0	5.03E-03	6886	-4.0	8.22E-03	3188	5.1	8.25E-04	2978	-4.0	6.19E-03	2772	5.7	2.98E-04
2242	-6.7	4.38E-04	6919	4.1	8.02E-03	3259	5.2	5.19E-03	3021	-4.9	5.76E-03	2774	-7.7	3.16E-03
2243	-5.9	1.02E-03	6957	-6.8	1.32E-04	3308	6.9	5.76E-03	3022	-6.9	3.10E-04	2780	-6.3	6.86E-04
2314	-3.5	5.90E-03	7004	4.7	1.32E-03	3405	5.0	7.46E-03	3029	-7.3	6.44E-03	2819	7.2	3.66E-03
2320	-4.4	2.59E-03	7021	-9.0	8.40E-05	3406	3.7	8.93E-03	3037	-5.1	5.87E-04	2832	6.4	3.75E-04

2391	-6.2	8.18E-05	7041	7.6	9.03E-03	3423	-5.7	2.05E-04	3040	-6.5	1.88E-06	10199	-4.6	2.02E-03
2404	5.3	3.42E-04	7058	5.1	7.61E-04	3441	-8.8	5.50E-04	3070	4.0	7.48E-03	10203	4.3	5.76E-03
2446	-5.6	8.22E-04	7059	4.3	4.51E-03	2845	8.1	2.12E-03	3074	-6.4	1.58E-03	10206	-5.6	3.60E-04
2456	5.6	9.23E-03	7064	4.6	3.77E-03	2848	-4.1	4.81E-03	3089	4.0	6.82E-03			
2467	6.1	6.50E-05	7125	-4.0	8.49E-03									

A	B	C
13174	-5.2	6.04E-03
13185	-3.9	7.69E-03
13201	-16.8	3.32E-07
13216	-5.1	3.75E-03
13249	5.4	2.42E-04
13254	-5.9	4.40E-05
13300	-4.4	8.24E-03
13302	4.5	2.03E-03
13353	-5.7	5.39E-04
13361	-4.6	8.65E-03
13363	-4.1	7.00E-03
13432	-6.1	2.93E-05
13466	-4.4	4.19E-03
13517	5.6	2.80E-03
13533	6.8	1.41E-04
13562	-7.7	9.32E-03
13578	-4.8	1.91E-03
13584	4.3	6.80E-03
13586	-6.2	5.95E-03
13600	-8.3	4.73E-04
13612	-4.4	5.01E-03
13716	4.1	3.30E-03
13733	5.3	2.51E-04
13760	8.5	7.22E-08
13764	-7.0	5.44E-05
13814	6.6	5.45E-03
13885	-5.4	5.84E-03
13917	4.6	3.25E-03
13927	7.0	1.09E-04
14053	5.2	1.23E-03
14061	-4.4	9.86E-03
14080	3.7	8.83E-03
14094	6.8	5.60E-05
14151	-5.1	9.84E-04
14153	-4.6	9.64E-03
14159	4.1	2.91E-03
14214	11.3	1.49E-03
14227	5.5	4.29E-04
14306	-4.7	7.50E-03
14309	-5.3	4.40E-04
14313	4.9	8.23E-04
14355	5.3	3.47E-03
14364	-5.0	3.87E-04
14371	7.7	3.46E-04

14382	5.1	8.88E-04
14406	-7.0	2.79E-04
14413	7.4	3.53E-04
14489	5.7	4.48E-03
14582	-5.1	1.08E-03
14586	6.4	1.47E-03
14596	9.2	2.75E-03
14630	8.7	3.47E-08
14658	-4.5	7.07E-04
14663	-6.3	6.16E-03
14665	-8.6	1.89E-03
14710	-3.9	7.25E-03
14716	-6.2	7.78E-05
14756	4.4	4.33E-03
14820	4.8	4.35E-03
14828	-3.9	8.82E-03
14831	-4.3	5.64E-03
14925	-4.9	9.65E-04
14960	-6.0	3.47E-05
14971	6.5	7.50E-03
9316	-6.2	7.42E-03
9320	-6.1	2.57E-05
9323	-4.8	6.33E-03
9335	-6.3	3.39E-03
9352	5.7	4.77E-04
9353	5.7	4.58E-04
9360	4.8	5.28E-03
9364	-6.9	2.51E-04
9368	-3.9	6.55E-03
9378	-4.7	2.76E-03
9382	6.9	2.61E-03
9399	-9.8	2.06E-03
9420	-5.2	2.98E-03
9425	-5.6	1.19E-03
9461	4.4	3.58E-03
9463	-5.6	3.84E-04
9464	6.6	1.04E-03
9488	-6.8	1.04E-05
9496	-3.9	8.82E-03
9509	10.3	6.70E-03
9521	4.8	1.47E-03
9590	4.0	6.47E-03
9597	6.8	3.40E-03
9617	5.2	4.57E-03
9638	-4.6	2.36E-03
9656	7.9	3.40E-07

9661	8.7	6.29E-03
9662	9.0	3.54E-04
9684	4.3	4.80E-03
9688	-4.0	5.78E-03
9691	5.4	2.09E-04
9692	-5.2	2.36E-03
9700	7.1	4.02E-06
9714	-5.0	7.06E-04
9750	-6.1	3.45E-04
9764	4.7	1.61E-03
9813	-5.1	5.48E-04
9867	5.7	3.37E-04
9882	-5.6	4.70E-04
9894	-4.9	6.94E-04
9924	4.6	1.56E-03
9929	-11.2	2.99E-05
9952	-6.3	1.51E-03
9996	5.7	1.55E-04
10000	7.1	1.77E-05
10001	-4.9	1.91E-03
10026	-5.0	4.00E-04
10035	-4.7	4.16E-03
10039	5.2	1.14E-03
10059	-4.2	4.98E-03
10076	4.9	1.15E-03
10079	-8.4	1.51E-03
10103	4.2	5.09E-03
10114	9.3	4.38E-04
10117	4.2	2.60E-03
10124	-5.5	1.03E-04
10134	-11.8	8.66E-04
10148	-5.0	1.48E-03
10153	4.6	1.58E-03
10163	-4.3	7.18E-03
10164	-4.3	7.61E-03
2473	-5.4	9.00E-03
2479	-3.2	2.03E-03
2480	-2.9	5.32E-03
2483	4.2	8.22E-03
2537	-3.8	3.18E-03
2547	5.2	3.30E-04
2556	-5.6	1.16E-03
7130	7.3	3.20E-03
7149	-5.4	9.17E-03
7150	7.3	2.62E-06
7151	7.4	1.57E-06

TABLE 4 - GENETIC MARKERS FOR APR

A	B	C	A	B	C	A	B	C	A	B	C
2	40.70	6.81E-08	1297	-29.9	3.86E-06	2543	21.4	5.68E-05	3780	30.4	1.25E-18
3	11.90	1.46E-03	1299	-14.9	8.82E-03	2550	-42.1	3.32E-09	3787	20.8	4.84E-03
4	39.50	2.80E-09	1301	-14.1	2.33E-04	2553	13.1	6.31E-04	3788	-31.6	2.07E-15
8	10.30	4.34E-03	1303	11.9	6.86E-06	2559	-35.4	1.73E-04	3789	-31.1	1.06E-06
13	17.50	2.36E-05	1305	18.5	2.33E-07	2568	26.0	3.20E-10	3792	-23.5	7.96E-07
15	25.50	3.65E-06	1306	-34.3	1.08E-15	2571	-21.0	2.05E-06	3793	-20.6	8.81E-08
21	17.80	1.81E-06	1307	-30.9	6.43E-09	2575	33.8	7.69E-06	3796	-47.5	2.82E-19
22	-18.10	2.17E-06	1308	-18.0	5.19E-04	2577	-33.1	5.68E-08	3797	-47.0	2.51E-20
35	-27.60	6.82E-14	1311	20.1	2.96E-04	2578	-31.0	6.06E-06	3798	-27.7	5.61E-08
36	-37.20	4.17E-12	1313	-29.3	1.23E-03	2580	32.2	9.30E-14	3799	-30.1	1.47E-03
38	-54.50	3.78E-13	1317	-18.5	1.21E-04	2582	-14.7	6.32E-05	3801	12.3	1.42E-03
39	-49.30	1.24E-12	1320	-20.2	6.27E-07	2587	-14.6	9.89E-04	3805	10.1	9.58E-03
46	-14.70	1.02E-03	1327	-11.8	1.34E-03	2590	21.8	6.32E-04	3808	-25.7	2.01E-11
50	-25.90	3.40E-04	1329	-15.4	1.15E-04	2591	-12.2	2.44E-03	3810	-18.8	2.28E-06
52	-27.60	2.23E-13	1332	32.2	2.14E-08	2595	37.0	1.69E-26	3812	-17.4	2.20E-06
54	18.10	8.54E-07	1333	23.4	1.48E-04	2599	-15.7	9.56E-05	3814	-23.6	7.01E-03
56	-15.50	1.75E-04	1339	-15.4	1.60E-04	2604	-39.0	1.01E-18	3817	-11.4	2.96E-03
62	-18.20	6.98E-03	1340	22.3	4.78E-03	2607	-13.8	2.63E-03	3818	-15.6	1.67E-03
63	-28.10	2.72E-15	1346	-27.9	3.95E-13	2608	30.9	5.80E-17	3821	28.2	3.97E-04
65	-19.80	1.34E-04	1348	-16.3	1.72E-03	2611	-27.0	2.58E-07	3831	-13.4	4.93E-03
66	-31.60	4.78E-19	1349	-13.9	2.32E-04	2612	-23.8	5.40E-10	3859	-33.4	1.88E-20
67	22.70	2.31E-09	1350	-15.0	7.62E-04	2613	-24.6	1.07E-08	3862	24.7	2.74E-11
71	-22.60	7.95E-07	1351	-13.5	1.58E-03	2614	16.4	7.78E-04	3864	-11.3	1.53E-03
73	23.00	9.79E-07	1354	-35.3	2.72E-13	2617	-22.3	1.10E-04	3865	-25.3	1.78E-10
75	-10.10	3.59E-03	1360	17.5	2.82E-04	2619	19.4	1.94E-04	3866	12.1	1.17E-03
77	-27.20	1.32E-13	1364	32.9	1.08E-21	2620	22.9	8.48E-13	3873	-14.2	1.23E-03
80	-10.00	2.06E-03	1370	-54.4	3.77E-11	2622	16.7	5.17E-06	3876	-17.0	4.83E-05
83	-12.40	6.22E-03	1373	27.7	2.23E-06	2624	18.4	1.40E-06	3878	-42.8	2.50E-31
86	34.00	6.83E-07	1378	-18.6	1.52E-03	2630	28.5	3.32E-05	3879	-16.0	7.57E-04
97	-27.00	2.57E-13	1380	-55.5	2.18E-19	2633	-36.3	2.77E-08	3880	-14.4	8.98E-04
99	31.60	6.09E-20	1385	-33.3	8.30E-18	2638	-22.9	1.08E-03	3883	17.0	5.31E-06
101	-25.60	2.76E-12	1388	-13.0	4.62E-03	2640	25.1	2.19E-04	3884	-32.0	5.11E-19
106	19.20	9.95E-08	1389	20.4	1.00E-03	2642	21.3	1.26E-08	3886	31.7	1.21E-15
114	-22.60	2.19E-07	1390	-55.3	1.69E-12	2649	-9.8	7.56E-03	3887	-17.7	7.76E-05
117	-13.90	3.63E-04	1393	-25.5	7.09E-13	2650	9.9	8.02E-03	3892	-23.3	1.16E-09
118	-12.50	1.23E-03	1395	14.1	1.33E-04	2652	-11.9	5.96E-03	3895	-17.1	6.36E-06
120	-26.00	1.03E-06	1396	-19.9	2.67E-07	2657	14.9	3.07E-04	3900	-14.2	1.22E-04
126	21.70	6.21E-04	1397	22.0	7.08E-09	2664	12.9	5.36E-04	3902	-35.5	2.26E-15
131	13.80	6.20E-05	1401	-36.8	9.33E-24	2665	13.3	3.60E-04	3904	-19.3	2.09E-07
135	-14.40	4.13E-04	1402	-12.0	2.90E-03	2667	25.5	3.52E-05	3910	17.5	2.04E-07
136	-31.40	2.29E-03	1406	-31.5	3.81E-16	2668	-27.6	1.64E-13	3913	10.3	5.44E-03
137	-16.60	1.21E-05	1409	11.5	7.85E-05	2673	20.1	6.87E-05	3914	-43.9	1.70E-35
142	-11.30	1.32E-03	1410	-26.4	4.08E-12	2677	19.7	1.30E-04	3915	7.6	7.42E-03

145	20.30	9.70E-06	1415	-24.2	3.91E-11	2682	26.4	1.03E-03	3916	12.6	3.72E-04
148	-26.40	4.59E-08	1421	7.7	6.34E-03	2684	12.6	7.84E-03	3917	20.4	8.96E-07
152	32.30	5.33E-11	1422	-13.4	3.82E-03	2686	33.9	9.86E-12	3918	-22.6	3.37E-06
154	-25.80	2.60E-06	1424	21.8	5.23E-07	2687	22.6	1.55E-08	3922	-16.7	1.70E-06
159	-23.70	2.38E-06	1429	-28.4	6.80E-15	2688	-22.9	1.25E-09	3926	26.2	1.38E-12
161	-11.20	2.41E-03	1431	17.5	3.67E-06	2693	18.9	3.91E-06	3927	-20.1	2.30E-07
162	-38.50	2.28E-06	1433	22.5	3.44E-10	2694	18.6	2.86E-03	3928	-16.7	1.94E-05
163	-11.40	5.40E-03	1434	13.3	9.75E-05	2696	24.8	2.06E-10	3929	22.3	3.19E-09
168	33.20	1.99E-17	1436	-16.8	6.51E-04	2698	17.4	1.17E-06	3930	-33.8	2.22E-08
171	28.40	8.42E-15	1439	32.1	6.43E-17	2702	20.0	7.24E-05	3933	-12.2	6.09E-04
173	-39.40	1.60E-07	1443	23.7	4.57E-11	2703	-31.0	5.60E-09	3937	-15.6	1.46E-05
174	21.90	1.08E-04	1444	23.7	4.85E-11	2705	-26.1	2.12E-12	3938	31.2	4.10E-09
176	-42.10	2.82E-29	1451	34.4	2.87E-10	2707	-14.9	6.48E-04	3940	25.8	1.50E-12
177	14.80	1.77E-04	1455	18.7	1.59E-03	2712	-14.5	1.93E-04	3945	-18.2	4.24E-03
181	30.90	9.12E-18	1464	27.3	4.99E-15	2714	-55.4	2.29E-11	3946	35.9	8.31E-22
183	-10.10	7.03E-03	1465	-17.8	1.51E-05	2721	15.2	2.85E-03	3947	-24.8	1.96E-10
185	19.50	8.57E-06	1467	14.3	4.24E-04	2726	15.6	8.49E-04	3957	-21.2	1.13E-05
186	21.90	6.70E-08	1468	22.0	8.10E-10	2727	17.5	1.27E-05	3959	30.2	3.60E-07
189	-25.60	7.24E-08	1472	-23.3	9.13E-10	2730	-43.1	5.38E-10	3961	22.0	1.08E-07
191	-21.40	1.21E-08	1475	-31.4	9.17E-19	2731	-42.9	5.86E-10	3968	-32.7	1.56E-05
194	30.90	1.86E-17	1478	11.3	9.49E-03	2733	22.2	4.11E-04	3971	14.0	3.80E-03
196	15.40	5.81E-05	1491	26.2	1.97E-11	2735	43.3	1.73E-33	3972	47.1	5.59E-27
198	10.00	5.53E-03	1494	19.8	1.54E-03	2736	23.4	4.25E-10	3978	-10.1	8.46E-03
200	-30.20	1.23E-14	1495	16.9	4.60E-03	2740	17.9	4.49E-06	3983	24.0	3.38E-11
201	-20.30	1.96E-07	1498	-14.1	3.65E-04	2742	-31.7	2.39E-07	4001	19.1	2.45E-03
205	-11.90	2.48E-03	1501	-12.0	9.52E-03	2743	15.5	1.41E-03	4009	17.2	4.07E-06
206	13.50	4.12E-03	1503	-16.6	8.17E-06	2746	21.6	7.72E-15	4011	28.9	1.02E-13
210	-18.70	1.35E-05	1504	11.1	5.81E-03	2752	-29.0	3.64E-06	4014	-12.6	5.24E-04
215	-32.10	2.83E-09	1505	28.9	6.71E-08	2754	47.8	1.71E-44	4015	18.2	1.46E-05
217	38.50	3.19E-17	1506	-19.9	2.57E-06	2756	-43.7	2.83E-33	4017	-19.5	1.32E-06
219	22.50	2.48E-08	1507	42.1	2.17E-12	2758	10.6	6.03E-03	4021	31.7	7.66E-06
220	-17.70	1.25E-05	1512	-32.0	6.29E-04	2760	-30.0	2.40E-16	4022	-21.5	7.44E-06
221	-18.60	6.21E-06	1524	12.0	2.06E-03	2761	-29.6	5.16E-16	4023	-21.0	6.19E-03
225	17.60	1.99E-06	1525	18.9	1.25E-03	2772	-16.1	1.11E-04	4025	36.4	4.47E-24
226	-17.40	9.10E-03	1526	11.3	2.80E-03	2773	-20.8	6.40E-04	4027	29.4	3.09E-14
231	-41.70	1.54E-22	1529	-14.6	1.93E-03	2774	33.7	6.96E-08	4028	-35.3	9.89E-08
233	-19.90	4.77E-07	1530	-38.1	1.00E-22	2776	-28.1	2.17E-04	4030	-13.1	3.47E-04
237	-19.00	8.16E-04	1534	-23.0	1.36E-03	2777	-24.7	1.34E-06	4031	-38.1	2.57E-07
238	-23.40	3.94E-07	1535	-18.4	9.76E-03	2778	24.7	1.41E-11	4032	16.9	7.13E-06
242	20.70	6.17E-09	1537	16.8	9.55E-05	2779	-13.3	4.19E-04	4041	-16.6	2.58E-03
246	-27.00	3.24E-07	1544	22.1	1.54E-05	2781	36.8	4.23E-18	4044	-28.0	4.95E-10
248	26.90	4.61E-06	1548	-30.3	5.39E-18	2782	13.0	4.60E-07	4045	28.6	1.38E-13
249	-18.00	2.61E-06	1552	17.3	1.43E-06	2788	18.6	1.69E-04	4050	10.8	3.84E-03
251	15.50	9.98E-06	1554	17.6	1.30E-03	2789	16.4	6.04E-03	4051	-30.4	1.87E-19
255	39.90	1.54E-05	1558	33.6	1.47E-18	2791	13.1	6.36E-03	4052	-36.1	8.20E-23

154

256	-18.70	1.39E-04	1560	13.2	6.10E-04	2796	10.9	3.00E-03	4053	25.5	5.39E-10
257	21.60	3.30E-06	1561	-17.7	3.19E-05	2805	21.1	5.27E-03	4056	24.8	6.87E-12
258	-14.50	2.02E-04	1566	-13.6	5.07E-04	2816	-31.0	2.85E-04	4059	-15.5	3.34E-05
259	37.70	1.25E-05	1571	-17.4	1.08E-05	2820	-32.6	5.09E-11	4060	19.2	1.48E-07
262	-18.80	2.32E-07	1572	-20.3	1.79E-03	2821	-20.4	9.31E-09	4061	19.1	1.56E-07
263	-18.40	1.19E-04	1573	28.5	5.34E-14	2822	-22.5	2.24E-08	4065	-23.5	2.75E-03
265	-14.10	3.77E-04	1574	26.4	8.27E-06	2824	11.2	3.70E-03	4067	12.0	1.62E-03
270	15.80	1.84E-06	1575	-21.2	2.99E-08	2828	25.4	4.52E-10	4068	34.2	9.39E-06
272	-10.30	7.73E-03	1577	17.4	3.55E-04	2829	-36.7	6.73E-16	4070	-22.5	2.01E-09
273	25.10	3.88E-07	1579	-11.4	8.00E-03	2830	-38.0	2.92E-17	4075	-18.0	1.71E-06
277	19.10	1.71E-03	1580	23.3	8.86E-11	2832	15.0	7.00E-04	4076	-29.5	4.20E-06
281	17.10	1.61E-03	1581	16.4	1.25E-03	2834	16.9	8.60E-04	4077	-15.5	5.39E-05
282	18.50	4.76E-07	1583	-24.0	1.25E-04	2838	-43.3	6.64E-26	4079	21.5	5.53E-05
298	18.80	7.56E-07	1587	-45.1	1.40E-08	2843	32.5	1.90E-18	4081	10.2	4.16E-03
305	31.70	7.99E-18	1588	-15.4	1.37E-04	2844	-23.6	2.45E-04	4084	40.5	1.71E-18
307	19.00	1.75E-07	1596	-18.2	4.07E-07	2845	-25.0	1.58E-04	4088	-26.8	2.88E-12
308	19.40	1.75E-05	1599	34.8	3.90E-17	2848	-31.6	2.61E-18	4090	-13.0	8.32E-04
312	-18.60	4.97E-07	1603	-14.4	2.15E-03	2850	-29.1	1.69E-06	4091	-34.2	1.77E-04
318	-28.40	1.93E-15	1604	-22.7	8.56E-07	2857	-26.5	6.73E-07	4096	19.9	1.41E-05
321	32.40	9.39E-11	1605	-19.1	1.66E-03	2860	34.7	1.48E-04	4097	-36.0	3.08E-23
323	-32.00	9.86E-08	1607	-24.0	8.06E-06	2862	-19.2	2.85E-03	4098	-22.7	5.08E-09
326	16.60	7.97E-06	1611	-22.4	8.78E-03	2867	-41.5	1.41E-13	4099	-11.8	2.06E-03
327	-12.20	5.02E-03	1612	21.6	1.83E-09	2872	18.6	6.34E-07	4100	22.6	2.29E-08
328	-21.10	1.88E-05	1614	29.0	3.11E-13	2874	-16.9	5.96E-04	4106	-17.4	2.31E-06
330	-37.90	2.66E-12	1616	28.2	7.20E-14	2877	40.5	1.24E-05	4115	19.8	2.47E-07
331	-16.30	1.75E-05	1618	24.0	5.39E-10	2878	-11.6	1.38E-03	4120	-32.5	5.46E-13
333	13.20	1.18E-04	1620	-23.9	9.20E-11	2882	24.0	3.41E-09	4121	-26.1	1.15E-08
336	-28.40	2.90E-14	1621	-12.8	3.03E-04	2888	-22.2	9.70E-10	4126	-22.4	1.49E-04
337	30.70	4.49E-16	1622	16.6	6.54E-05	2889	10.8	8.83E-03	4130	-12.4	8.31E-04
343	-37.70	3.05E-05	1623	32.4	9.75E-21	2890	40.4	2.89E-35	4131	-28.8	9.53E-04
345	-31.70	6.69E-11	1625	42.0	2.44E-32	2891	19.3	2.58E-07	4133	10.0	6.12E-04
348	-18.10	1.42E-06	1628	-23.0	2.68E-07	2896	-18.0	3.50E-04	4134	-29.4	8.38E-15
352	17.90	1.13E-03	1629	-22.9	2.74E-07	2897	-20.2	4.52E-03	4135	-17.6	1.70E-04
354	-45.90	4.48E-19	1630	-22.6	4.30E-08	2898	-19.9	6.52E-03	4140	12.1	2.41E-03
359	11.40	3.17E-03	1634	11.9	8.00E-03	2900	20.8	4.26E-06	4155	38.1	1.60E-21
363	-23.50	5.74E-03	1635	-26.1	1.44E-13	2901	-41.5	3.14E-21	4156	15.3	5.17E-05
364	-17.70	7.95E-03	1636	-36.7	5.03E-07	2905	15.6	1.28E-03	4159	26.5	6.00E-10
367	-13.60	2.62E-04	1637	23.6	3.56E-09	2907	-14.2	3.15E-04	4162	-20.5	2.42E-05
369	33.80	2.05E-11	1639	11.6	4.53E-03	2909	-16.2	1.50E-05	4163	-26.1	5.90E-06
372	-32.90	4.78E-09	1640	-32.6	9.91E-13	2910	-15.8	3.53E-04	4164	16.9	4.43E-06
373	40.50	5.27E-07	1642	27.4	2.09E-11	2914	26.1	4.27E-10	4165	-35.4	1.36E-17
376	-23.00	6.62E-05	1643	24.9	2.96E-08	2922	21.4	1.14E-04	4166	-37.9	9.22E-23
377	-55.30	2.42E-11	1644	-37.4	1.48E-10	2924	34.8	1.84E-19	4167	19.8	1.24E-04
381	23.00	6.16E-10	1650	-21.7	6.04E-07	2929	-11.1	2.32E-03	4169	-16.8	1.62E-03
383	-22.50	1.64E-03	1652	14.5	6.26E-04	2930	-9.8	7.58E-03	4170	18.4	1.29E-06

386	-26.00	1.00E-03	1653	33.1	1.39E-21	2939	-10.2	5.06E-03	4171	-18.3	7.30E-03
390	-12.70	3.04E-03	1662	-33.6	4.64E-07	2941	-27.7	9.04E-09	4179	-11.3	1.48E-03
393	37.90	6.07E-19	1663	-31.1	1.04E-07	2946	29.5	3.48E-14	4187	19.0	5.17E-05
394	-31.40	7.06E-16	1669	16.0	7.19E-06	2954	-9.3	5.96E-04	4194	-29.6	8.42E-12
395	-20.70	3.02E-08	1677	31.4	2.12E-16	2955	-28.6	8.67E-07	4196	35.5	3.83E-13
396	-20.10	3.02E-05	1681	27.2	7.38E-12	2959	-32.1	1.88E-17	4197	-13.4	3.24E-04
404	40.20	1.04E-17	1684	24.4	1.78E-08	2960	11.3	8.15E-03	4198	-21.2	2.64E-08
407	-14.00	8.36E-04	1686	25.1	4.36E-12	2961	-29.9	2.47E-03	4202	33.8	8.66E-19
408	-35.70	1.51E-09	1691	13.6	2.45E-04	2962	13.4	4.39E-04	4203	11.8	1.16E-03
410	-25.20	1.24E-12	1696	-41.6	2.77E-06	2965	11.4	2.00E-03	4204	-10.6	4.13E-03
411	-25.50	7.98E-13	1710	-27.5	3.20E-13	2968	-11.2	6.07E-03	4205	16.2	1.60E-05
412	-38.00	2.92E-17	1711	14.6	4.13E-03	2970	-15.5	4.11E-03	4209	-20.6	9.62E-03
415	-29.10	4.01E-11	1717	-16.7	3.99E-03	2971	-28.6	1.23E-13	4210	-20.1	1.19E-07
416	-15.20	3.57E-04	1730	26.9	2.77E-13	2974	-33.2	1.13E-08	4212	-12.3	3.00E-03
418	20.70	1.50E-04	1731	-36.8	4.28E-24	2976	-24.3	2.19E-03	4214	-48.2	3.06E-13
424	-22.00	7.60E-04	1740	-24.1	2.79E-09	2978	22.4	6.53E-09	4215	18.1	7.09E-07
425	-21.30	3.74E-09	1741	28.6	1.91E-11	2980	-33.8	1.32E-04	4219	21.2	1.04E-03
426	-11.70	3.22E-03	1743	-53.7	4.48E-14	2996	9.7	8.74E-03	4231	21.7	3.07E-08
429	18.10	5.32E-07	1744	20.3	6.71E-06	2997	11.4	1.15E-03	4232	21.9	5.40E-08
440	11.70	1.70E-03	1745	20.3	4.06E-06	2998	-24.4	1.13E-06	4234	-44.5	1.80E-23
444	-19.70	1.14E-06	1751	33.8	8.69E-22	3003	15.3	3.12E-03	4235	46.9	3.59E-06
450	19.70	3.21E-07	1752	45.5	4.57E-28	3004	7.8	7.61E-03	4236	28.8	4.44E-07
465	-33.00	6.00E-09	1753	24.4	5.98E-03	3006	27.9	7.74E-16	4238	-13.3	2.61E-03
467	-28.70	1.00E-14	1755	10.2	9.16E-03	3008	27.5	4.48E-06	4239	-26.4	1.45E-03
470	-18.30	3.05E-04	1757	-15.4	1.19E-03	3015	23.9	1.55E-06	4241	28.4	6.34E-06
474	23.10	1.24E-09	1758	19.6	2.51E-03	3021	18.1	3.31E-05	4242	20.0	3.22E-07
476	32.30	4.17E-14	1760	17.2	2.38E-05	3022	20.3	1.95E-05	4244	-20.0	2.53E-07
477	16.80	8.75E-06	1763	17.9	7.86E-05	3024	14.6	1.19E-04	4245	-29.2	7.99E-11
478	18.30	7.09E-07	1764	-20.7	8.45E-08	3026	-28.4	1.54E-14	4246	-39.4	6.10E-25
479	-65.70	2.52E-12	1766	19.6	6.47E-03	3027	-49.6	2.64E-16	4248	-70.4	1.46E-09
481	19.80	2.43E-06	1773	-18.5	9.24E-03	3029	-26.4	5.36E-04	4249	18.4	1.05E-04
497	-45.30	2.83E-24	1777	-15.7	1.49E-03	3031	23.4	1.08E-04	4261	-22.4	1.06E-10
499	25.60	7.24E-08	1778	-27.5	1.36E-06	3033	-42.4	8.77E-09	4262	27.6	1.52E-03
500	27.00	4.12E-04	1779	13.1	1.18E-03	3034	32.5	6.01E-12	4264	-25.7	4.22E-08
502	-18.10	6.45E-07	1780	35.3	1.96E-23	3035	15.7	1.38E-03	4265	35.1	3.81E-12
503	-12.80	4.65E-03	1781	23.2	2.54E-06	3037	-21.1	2.60E-08	4266	-33.8	7.94E-06
507	-38.00	1.20E-22	1782	23.2	2.53E-06	3039	15.9	1.35E-04	4268	-19.8	5.04E-08
508	28.40	7.08E-16	1784	31.9	1.04E-05	3042	17.0	5.60E-05	4270	-16.9	3.48E-06
516	-13.50	9.61E-03	1788	-22.8	1.67E-08	3044	-22.9	3.33E-05	4271	-25.0	4.49E-03
521	-15.90	2.30E-05	1790	-26.7	8.97E-23	3048	32.1	5.65E-14	4272	17.9	6.89E-06
523	-14.90	7.24E-03	1792	18.0	1.01E-03	3050	-45.1	3.76E-22	4276	-36.9	1.34E-17
525	-16.90	1.33E-03	1794	15.8	4.74E-05	3051	-14.3	3.30E-04	4278	-18.9	5.97E-07
529	-15.40	1.23E-03	1798	13.5	5.59E-03	3053	24.9	8.52E-08	4279	-15.5	1.06E-04
530	-27.30	4.08E-03	1799	18.3	5.22E-07	3057	-15.5	7.07E-05	4285	14.8	1.15E-04
531	26.00	5.51E-09	1803	-36.8	7.19E-12	3059	-11.1	2.29E-03	4297	29.5	5.62E-16
532	24.80	2.46E-10	1804	-49.9	9.18E-11	3061	-23.6	5.96E-03	4299	-40.1	1.67E-21

534	-23.30	1.38E-07	1805	-19.6	8.53E-05	3062	-26.1	3.40E-11	4301	-35.3	8.14E-12
535	15.70	1.05E-03	1806	18.3	5.59E-03	3066	22.1	1.83E-08	4304	24.7	5.95E-04
537	8.20	7.01E-03	1813	11.4	2.31E-03	3068	26.2	2.49E-11	4307	12.2	1.74E-03
538	-25.60	2.75E-14	1815	-30.8	5.94E-06	3069	24.1	8.90E-11	4308	-21.4	3.13E-05
539	-16.80	1.39E-05	1820	-28.9	4.16E-09	3072	41.5	1.44E-10	4313	23.6	8.35E-11
540	-32.60	2.79E-19	1823	12.3	2.16E-03	3074	-15.9	9.73E-03	4314	17.7	2.49E-07
541	-21.80	1.93E-06	1825	-13.0	3.03E-04	3075	12.6	2.56E-03	4315	-13.7	8.75E-04
543	22.10	3.09E-06	1827	-39.0	1.17E-32	3076	14.7	9.39E-04	4317	-12.5	5.68E-03
546	-14.10	2.55E-04	1829	-27.8	5.66E-07	3077	17.8	3.48E-06	4319	-21.3	5.43E-07
550	22.50	1.94E-04	1836	-16.9	1.86E-04	3079	-14.5	2.55E-03	4321	-19.5	3.27E-04
552	19.10	1.34E-06	1837	17.4	4.65E-06	3083	-19.1	4.14E-04	4327	15.2	1.89E-03
558	-18.50	3.18E-03	1843	-27.0	5.22E-09	3089	-28.2	5.77E-14	4329	-25.8	6.24E-05
559	28.00	1.90E-16	1846	-31.0	6.38E-06	3093	20.6	1.31E-03	4331	-13.3	6.00E-04
561	-38.30	2.87E-12	1847	-22.1	1.86E-06	3097	-25.7	7.48E-09	4332	-17.2	2.62E-06
563	-14.10	3.29E-04	1849	17.4	3.75E-04	3100	-32.2	3.32E-11	4333	-34.5	1.44E-11
565	20.30	1.04E-07	1851	-18.2	6.39E-07	3102	25.5	3.62E-04	4334	41.6	9.14E-35
569	-15.50	2.88E-05	1853	18.3	6.61E-03	3104	-11.9	2.26E-03	4335	38.5	1.41E-10
570	-31.20	2.00E-17	1858	-18.3	8.59E-07	3116	20.6	6.38E-06	4337	13.2	4.80E-04
571	17.70	2.21E-06	1862	-30.3	1.83E-15	3118	-23.0	3.49E-08	4342	-16.2	7.43E-04
583	-16.20	8.65E-06	1864	-25.3	3.04E-09	3120	-18.5	4.22E-07	4343	13.0	3.90E-03
588	-19.70	3.06E-04	1865	16.2	6.17E-05	3122	17.2	1.75E-05	4345	11.5	4.56E-03
592	15.60	1.98E-05	1867	-19.5	1.09E-03	3124	-26.7	8.51E-13	4351	-11.3	3.41E-03
594	-28.10	2.96E-14	1869	31.3	5.63E-16	3125	-29.7	6.19E-15	4352	14.9	3.58E-05
595	-34.80	1.76E-14	1870	-31.7	4.82E-04	3127	-17.3	4.80E-06	4354	28.6	1.96E-16
599	-13.30	9.05E-04	1871	-16.0	3.33E-05	3129	33.6	7.09E-18	4358	28.0	1.93E-03
614	-32.20	2.44E-17	1873	-11.7	4.37E-03	3131	15.1	4.99E-05	4362	-23.1	8.95E-08
615	23.00	1.35E-10	1875	-22.3	1.57E-04	3132	17.6	6.39E-07	4366	24.0	4.06E-05
617	-14.40	4.13E-04	1876	29.0	9.59E-15	3133	11.4	1.28E-03	4371	16.6	8.90E-04
620	28.80	1.76E-15	1879	-35.7	2.53E-15	3139	-15.3	8.53E-04	4374	-15.6	8.99E-05
621	12.20	4.15E-03	1882	-26.5	4.03E-03	3140	19.8	9.88E-07	4385	12.3	5.70E-04
629	40.70	5.29E-21	1884	-37.4	4.41E-19	3141	25.4	5.09E-10	4386	-16.5	1.41E-05
633	14.10	1.40E-03	1889	-12.3	8.82E-04	3142	18.3	6.37E-07	4387	-11.0	5.40E-03
636	16.40	2.77E-05	1890	37.4	6.17E-14	3143	-30.3	2.01E-13	4395	10.7	3.54E-03
637	-10.30	7.03E-03	1892	14.7	8.99E-05	3144	-17.8	3.24E-06	4396	24.3	1.30E-11
644	35.20	2.80E-23	1893	19.3	1.53E-05	3145	-18.0	2.57E-06	4398	-30.0	4.79E-15
647	18.40	7.22E-07	1896	17.7	3.53E-06	3149	16.3	1.54E-04	4399	17.5	6.82E-03
648	10.40	7.09E-03	1905	-22.2	8.48E-04	3150	-17.5	2.17E-06	4400	-32.1	1.37E-11
649	29.20	3.24E-14	1906	-20.5	8.62E-06	3153	-18.5	2.08E-06	4401	-37.8	3.04E-17
650	10.50	4.54E-03	1907	-18.5	1.31E-05	3154	32.9	1.45E-13	4405	-38.9	4.32E-11
652	23.60	1.41E-06	1914	11.5	1.83E-03	3158	-25.3	1.06E-11	4409	-14.6	2.41E-05
654	13.40	1.36E-03	1919	-24.3	9.02E-04	3165	-33.1	1.12E-13	4415	-11.5	5.71E-03
657	-25.00	3.75E-11	1920	16.4	4.55E-04	3166	-23.8	9.82E-12	4417	20.1	1.27E-04
660	20.20	2.17E-03	1922	-25.8	5.07E-13	3167	-35.9	7.09E-13	4418	-17.8	1.51E-03
663	-18.80	2.62E-05	1924	-15.0	6.04E-04	3168	12.3	7.30E-04	4419	-17.9	3.40E-03
664	-18.00	9.26E-07	1925	-14.5	1.15E-03	3170	22.1	1.49E-05	4420	-20.8	6.47E-07

668	-13.00	8.98E-04	1926	25.7	3.88E-11	3172	-23.3	1.50E-03	4425	30.5	2.72E-16
672	19.00	1.83E-07	1927	-24.9	7.35E-06	3176	31.2	1.35E-17	4426	-30.0	1.07E-08
675	-11.10	4.55E-03	1928	-40.9	4.32E-27	3177	-21.0	3.28E-05	4430	13.4	3.71E-04
678	11.60	1.33E-03	1929	21.5	2.42E-09	3178	-15.6	2.79E-05	4445	18.1	2.44E-05
681	22.60	9.06E-10	1930	21.7	1.89E-09	3179	-23.4	1.24E-07	4446	-46.0	6.02E-23
683	-16.60	1.00E-05	1931	26.8	1.49E-05	3181	-20.5	1.74E-05	4450	-9.2	7.82E-03
688	18.30	9.34E-07	1932	-42.6	7.03E-12	3183	-27.0	8.32E-12	4453	-15.9	1.62E-06
690	-41.10	3.52E-19	1933	20.3	7.23E-08	3184	27.1	1.87E-13	4455	-14.9	5.98E-05
693	21.80	5.43E-04	1934	30.2	5.40E-06	3188	-12.5	2.56E-03	4458	-18.8	3.48E-07
696	-14.00	1.78E-04	1938	-31.4	1.04E-12	3189	-17.8	1.73E-06	4464	-16.3	9.22E-03
703	19.30	2.18E-06	1939	39.4	3.97E-32	3190	25.1	2.78E-08	4467	21.1	8.67E-05
707	11.50	1.53E-03	1941	30.5	1.36E-14	3193	28.5	1.00E-04	4472	-10.7	9.46E-03
708	39.70	1.96E-05	1944	20.5	2.80E-10	3194	28.6	1.23E-04	4476	-17.2	1.89E-06
718	-32.50	5.41E-15	1947	18.9	5.97E-04	3196	-21.0	9.71E-06	4478	-35.4	1.01E-12
722	10.90	1.47E-03	1952	-19.4	4.19E-04	3197	-32.0	3.01E-05	4480	14.3	8.55E-03
724	-21.90	1.73E-06	1962	-12.2	1.12E-03	3198	-13.4	2.88E-04	4484	-38.6	4.30E-04
730	-39.20	8.47E-19	1963	-31.7	1.77E-04	3199	-18.1	3.31E-05	4485	-26.0	2.44E-12
736	22.60	4.93E-09	1969	19.8	2.73E-05	3205	-22.5	1.34E-04	4486	49.1	4.68E-10
746	-28.70	3.56E-04	1971	22.5	8.60E-11	3210	17.0	3.88E-06	4487	30.8	4.72E-19
749	-18.50	1.92E-05	1974	-24.0	1.64E-10	3213	-35.2	5.79E-06	4492	-20.1	9.93E-06
753	-10.20	5.70E-03	1978	-34.8	1.90E-10	3217	-13.4	1.56E-03	4493	-29.5	2.88E-10
754	-12.40	8.44E-03	1980	24.5	2.34E-08	3218	-31.3	1.71E-13	4499	-22.9	5.22E-06
757	-13.90	1.44E-04	1981	29.5	1.07E-12	3220	23.5	2.69E-09	4501	14.8	2.05E-04
760	-56.30	5.75E-08	1982	-12.0	1.05E-03	3227	-24.2	1.56E-05	4502	17.7	4.59E-06
761	16.70	5.55E-03	1988	-30.7	3.77E-13	3235	-19.6	2.80E-06	4503	18.1	7.62E-07
762	40.10	2.12E-12	1990	-35.6	2.15E-09	3239	-15.5	5.06E-03	4505	41.7	1.89E-31
766	21.70	2.84E-08	1995	-20.8	4.04E-03	3240	-15.5	4.99E-03	4506	-15.6	4.71E-05
767	-24.80	2.92E-03	1996	43.8	8.51E-14	3241	-37.6	2.51E-15	4512	-20.0	2.45E-07
769	-29.60	3.23E-17	1997	28.2	2.47E-04	3245	17.2	2.33E-05	4515	18.5	4.57E-07
770	-26.50	1.31E-03	1999	16.8	1.11E-06	3248	-35.7	5.34E-08	4523	16.2	6.28E-06
772	-14.20	4.65E-04	2002	-62.5	4.30E-14	3253	8.1	7.14E-03	4524	33.2	2.74E-07
774	-19.40	4.13E-04	2003	-15.5	2.61E-05	3254	-14.2	3.03E-03	4525	-40.0	6.50E-16
776	10.60	5.16E-03	2004	32.8	1.29E-08	3257	14.0	5.19E-04	4528	-32.7	4.15E-08
777	-23.70	6.93E-06	2007	-14.5	1.33E-03	3258	21.0	4.00E-08	4529	-46.3	2.02E-06
778	15.30	8.90E-03	2009	-12.5	6.36E-04	3263	25.5	1.42E-11	4530	17.8	6.06E-03
779	-44.00	9.17E-17	2010	23.5	2.71E-10	3266	10.4	3.44E-03	4532	-17.1	3.63E-03
781	20.00	2.20E-05	2013	-15.3	1.29E-04	3270	-10.2	9.13E-03	4536	17.6	3.86E-06
782	-18.60	1.20E-05	2015	-30.7	1.90E-07	3272	33.7	1.20E-09	4537	-31.4	8.47E-11
784	-34.60	2.29E-10	2016	-12.2	1.38E-03	3275	-15.0	1.80E-03	4539	-29.0	1.08E-03
793	32.70	2.90E-12	2017	-21.8	1.94E-06	3276	-13.3	1.25E-04	4542	51.1	2.45E-46
794	33.40	3.91E-10	2018	20.5	3.10E-08	3277	-12.6	3.46E-04	4543	25.3	1.30E-06
795	27.90	1.35E-12	2019	21.1	1.26E-08	3278	-13.0	2.72E-03	4544	-11.4	1.31E-03
799	22.90	1.46E-03	2020	-16.1	2.07E-03	3280	-14.7	3.32E-05	4545	12.3	1.14E-03
801	-39.00	2.73E-09	2026	-11.3	1.22E-03	3281	-22.7	5.33E-05	4549	33.5	1.92E-08
808	-19.20	2.66E-06	2030	11.1	3.82E-03	3283	-14.6	5.68E-03	4555	-34.2	8.64E-05

811	41.40	1.69E-07	2035	-13.6	8.99E-05	3286	19.0	1.88E-07	4556	-10.9	4.99E-03
812	34.40	2.92E-15	2040	14.5	4.59E-03	3289	-17.0	6.50E-03	4558	12.9	8.58E-03
818	40.00	9.67E-07	2043	-17.9	1.48E-05	3291	27.1	2.20E-04	4562	-22.0	6.45E-10
822	-26.70	3.50E-03	2044	-22.6	3.05E-07	3310	16.8	4.95E-06	4565	15.8	1.97E-03
825	-28.40	7.17E-04	2045	22.1	1.64E-09	3312	-13.7	7.99E-04	4567	-33.1	1.36E-08
826	-29.60	1.06E-04	2046	-16.2	2.92E-05	3313	-14.4	5.33E-04	4568	-9.0	2.76E-03
829	29.40	4.28E-11	2049	35.5	4.85E-22	3317	33.7	2.09E-22	4578	32.6	3.89E-21
837	-15.60	5.40E-04	2053	-10.1	8.70E-03	3318	13.9	3.29E-03	4580	-32.4	3.40E-12
840	-40.90	7.66E-15	2056	-13.6	1.97E-04	3321	16.1	6.26E-06	4581	48.5	1.02E-36
842	-22.90	1.09E-08	2059	35.6	2.71E-17	3322	-40.6	8.27E-22	4582	23.6	4.47E-11
844	21.70	1.55E-08	2071	28.6	1.09E-06	3325	-24.2	3.88E-03	4583	34.4	5.86E-19
846	-49.80	1.17E-25	2072	-19.8	2.25E-04	3327	-30.8	9.01E-08	4585	-25.5	5.93E-04
847	13.60	1.12E-03	2075	-16.6	2.65E-05	3329	19.0	9.30E-03	4586	-20.4	9.61E-08
854	-18.20	5.27E-06	2077	27.5	3.55E-19	3334	-18.0	6.53E-04	4589	15.7	6.58E-04
858	-25.60	2.50E-11	2078	-13.0	4.62E-04	3341	-35.7	1.59E-14	4591	-40.3	3.02E-04
860	23.70	2.76E-06	2088	12.7	1.44E-03	3343	-11.2	1.42E-04	4599	12.3	2.88E-03
864	19.80	1.21E-07	2089	-21.1	4.23E-03	3344	-9.6	7.69E-03	4602	30.7	8.05E-19
865	32.00	8.46E-11	2090	-23.0	1.65E-09	3349	23.6	1.65E-03	4606	-17.6	1.32E-06
868	-29.20	1.19E-10	2092	-21.2	6.31E-05	3350	23.6	1.63E-03	4607	-17.3	1.79E-06
870	35.40	1.73E-20	2093	-23.3	3.32E-18	3352	21.5	9.36E-04	4608	-25.2	2.22E-10
875	-18.70	2.89E-04	2094	-20.2	1.28E-07	3353	18.6	1.28E-06	4610	12.3	2.59E-03
876	-16.70	3.79E-06	2096	-24.4	2.50E-11	3357	-12.8	9.72E-04	4612	-23.6	2.93E-04
879	-16.60	9.12E-05	2098	21.2	1.46E-04	3359	-19.0	1.59E-06	4613	18.2	4.72E-06
882	-25.60	6.77E-11	2099	-17.7	1.57E-03	3367	15.9	6.62E-04	4614	-12.6	5.42E-04
883	-11.50	8.86E-03	2101	-23.5	3.34E-08	3371	42.6	6.60E-35	4616	-17.6	4.27E-06
886	14.90	1.02E-03	2107	41.6	2.07E-17	3374	-18.4	6.98E-04	4619	-24.0	8.30E-10
888	-16.90	4.48E-04	2110	31.4	4.29E-20	3379	-29.8	3.06E-04	4620	12.9	5.56E-04
890	-19.00	2.49E-07	2114	-25.1	1.11E-04	3385	13.7	2.07E-04	4621	-18.4	1.81E-05
898	-20.70	2.23E-05	2116	-36.6	4.20E-06	3390	36.6	6.96E-08	4622	-28.8	1.02E-14
900	17.10	2.19E-06	2118	26.6	7.77E-10	3391	19.1	1.23E-08	4623	-15.6	5.81E-05
901	-33.50	5.18E-20	2121	22.4	9.19E-06	3392	36.9	1.06E-13	4627	-18.5	1.35E-03
902	-22.00	1.84E-03	2123	23.2	7.87E-07	3395	40.9	8.48E-14	4629	35.9	2.08E-24
905	15.90	2.14E-05	2126	29.6	5.57E-13	3396	-29.8	1.92E-10	4634	-46.5	4.00E-20
906	42.90	6.05E-08	2131	-23.8	9.22E-05	3407	15.8	2.22E-05	4638	-18.0	2.33E-05
910	-27.20	6.60E-03	2133	19.7	2.83E-06	3408	-14.5	2.05E-04	4639	-18.0	2.32E-05
913	-18.00	4.88E-05	2134	23.6	6.65E-09	3409	-9.9	9.32E-03	4644	-15.3	8.21E-05
915	12.90	5.28E-03	2137	10.2	2.07E-04	3416	11.0	2.58E-03	4648	17.5	4.13E-04
919	41.90	2.19E-10	2140	16.5	4.62E-04	3417	19.8	1.73E-08	4650	13.9	1.61E-04
922	17.50	3.15E-03	2141	9.0	7.09E-04	3418	16.5	1.20E-05	4651	32.2	4.91E-14
923	15.70	7.30E-03	2145	-15.9	3.75E-05	3419	11.7	2.25E-03	4654	-45.1	2.93E-22
928	25.30	3.65E-12	2152	14.6	2.53E-03	3420	33.7	4.08E-18	4662	-27.3	2.58E-10
929	-16.40	7.01E-03	2163	-28.6	1.82E-07	3423	25.9	2.35E-11	4664	34.9	4.21E-22
934	-24.10	5.74E-11	2172	38.4	3.57E-21	3431	47.1	3.41E-06	4669	-13.6	2.45E-03
937	-26.20	3.62E-03	2176	20.3	2.68E-08	3432	47.0	3.56E-06	4670	-31.4	4.82E-12
939	28.60	3.39E-12	2177	20.2	4.71E-07	3436	17.9	1.06E-04	4671	-31.3	2.52E-14

944	-18.20	1.10E-03	2178	24.1	1.77E-07	3438	-13.5	2.38E-07	4675	23.1	9.77E-10
948	12.30	3.08E-03	2183	11.9	1.13E-03	3439	-28.5	2.46E-08	4677	-13.2	4.84E-04
949	-45.70	1.56E-32	2187	-40.0	5.77E-13	3440	-29.3	6.73E-03	4678	23.6	3.27E-08
951	-19.20	1.44E-04	2190	-15.7	4.30E-03	3441	28.5	6.15E-06	4679	-40.2	2.83E-29
954	37.10	6.31E-24	2195	-12.6	1.18E-03	3444	-28.2	5.82E-05	4683	-15.0	1.03E-04
957	21.00	1.52E-05	2203	-19.2	1.05E-03	3445	17.2	5.11E-03	4686	11.9	7.36E-03
958	21.20	1.34E-05	2210	-12.3	3.50E-03	3447	13.7	1.96E-04	4687	17.9	2.78E-06
960	-20.20	4.06E-08	2215	14.2	4.44E-04	3448	20.8	8.68E-06	4688	16.3	1.87E-05
961	27.50	2.81E-03	2217	11.1	8.88E-03	3457	-31.0	5.57E-09	4689	-11.7	1.39E-03
962	32.80	2.14E-12	2218	13.5	2.05E-04	3460	-23.1	1.12E-03	4690	-39.0	2.38E-13
963	-37.20	8.07E-09	2222	16.6	5.21E-03	3466	12.7	4.78E-04	4691	-22.4	5.21E-07
964	39.80	3.88E-14	2226	-23.1	5.99E-03	3467	26.3	3.85E-14	4692	-13.9	2.28E-03
972	23.80	5.86E-05	2227	-21.1	4.36E-06	3468	14.1	8.47E-05	4694	-26.3	1.21E-11
974	-12.10	1.15E-03	2228	-35.2	7.15E-09	3471	-24.3	1.69E-03	4696	-36.5	5.30E-22
975	10.50	4.74E-03	2229	-23.6	4.92E-07	3479	-29.9	5.15E-07	4700	21.2	3.83E-03
979	35.20	9.81E-23	2231	34.4	3.95E-12	3482	-15.7	9.48E-05	4702	7.5	4.99E-03
982	19.00	1.28E-05	2232	-16.8	1.64E-04	3483	25.0	1.61E-04	4705	15.3	8.02E-05
983	-25.00	6.75E-05	2236	16.8	1.57E-03	3485	-46.5	3.71E-30	4712	-18.6	6.27E-03
984	29.40	4.89E-13	2237	-20.8	7.36E-04	3489	16.9	1.07E-05	4726	19.0	5.68E-04
989	19.30	5.44E-06	2238	17.1	7.86E-05	3490	24.7	2.61E-09	4728	18.0	2.72E-06
993	19.10	5.86E-08	2239	9.4	1.14E-03	3491	43.4	3.37E-33	4734	-27.2	4.00E-08
994	-33.70	2.13E-19	2242	20.6	1.59E-05	3492	24.6	8.80E-10	4739	-17.4	4.96E-06
998	16.40	1.56E-05	2246	-23.8	5.90E-03	3498	17.8	4.94E-06	4740	-17.3	4.63E-06
1003	21.80	1.72E-06	2248	-9.7	5.76E-04	3502	-25.9	7.92E-03	4744	14.4	3.02E-03
1004	-15.50	1.38E-03	2250	-40.8	3.34E-30	3503	-17.8	2.11E-03	4746	17.4	4.88E-06
1006	-39.00	9.62E-09	2251	-28.5	6.29E-11	3506	-33.7	3.55E-11	4753	-10.2	1.35E-03
1009	-24.80	8.45E-11	2257	-16.3	2.80E-04	3510	-13.7	8.14E-04	4756	26.9	2.34E-15
1010	-18.90	1.64E-05	2260	-18.5	9.20E-06	3511	21.3	1.55E-05	4757	-17.3	4.61E-06
1012	14.70	6.00E-04	2261	-13.5	6.32E-04	3514	-38.0	7.67E-20	4758	-20.7	1.31E-06
1015	-23.10	7.74E-10	2267	-15.1	1.02E-04	3515	32.8	1.36E-04	4760	-36.0	4.37E-16
1016	-30.50	5.65E-15	2268	-27.8	3.68E-07	3518	-52.7	1.22E-07	4761	-35.9	5.38E-16
1020	10.60	5.95E-03	2271	15.6	1.08E-05	3519	-16.0	8.29E-05	4762	11.5	1.35E-03
1021	20.60	7.74E-07	2275	-17.4	2.41E-06	3523	31.8	1.97E-17	4763	-19.2	2.16E-07
1024	21.80	1.49E-03	2283	-14.5	1.06E-03	3527	19.1	1.09E-04	4764	22.7	5.85E-05
1033	29.30	2.99E-16	2284	-21.2	2.89E-08	3531	-10.1	8.54E-03	4766	-19.3	9.28E-07
1035	-19.80	5.97E-06	2285	-22.1	3.93E-08	3533	-24.4	3.81E-06	4770	-18.8	4.53E-07
1037	-26.20	5.45E-08	2288	-10.9	4.17E-03	3538	-19.1	3.82E-06	4771	-41.5	9.66E-12
1038	-26.20	4.81E-13	2289	22.5	6.24E-03	3539	21.6	5.26E-08	4780	21.8	4.42E-09
1042	30.70	1.19E-16	2291	-26.7	1.30E-09	3540	-17.0	1.80E-06	4781	18.4	1.46E-04
1045	-23.20	9.10E-07	2293	35.4	4.98E-23	3541	13.4	4.39E-04	4786	-23.3	1.78E-06
1046	-18.60	7.71E-03	2294	35.0	9.14E-23	3544	-18.3	3.87E-04	4788	17.5	3.72E-04
1050	-14.10	2.86E-03	2295	-19.3	3.27E-06	3546	-17.5	2.92E-03	4789	-20.2	5.09E-07
1054	-14.80	3.09E-03	2300	33.9	1.14E-21	3548	-38.4	3.02E-07	4790	-28.1	3.68E-14
1056	15.10	5.97E-05	2303	27.0	1.90E-10	3550	11.3	2.48E-03	4794	-13.0	7.93E-04
1057	23.70	2.48E-11	2304	10.8	8.10E-03	3554	13.6	2.10E-07	4796	-9.9	3.13E-03
1058	18.60	1.92E-04	2311	10.1	1.84E-03	3557	-23.2	8.13E-03	4797	-21.2	3.60E-07

1061	-18.70	1.26E-04	2314	10.9	4.16E-04	3558	-22.7	2.92E-09	4800	-37.9	6.12E-08
1063	19.80	2.26E-07	2315	13.0	8.52E-04	3559	-22.5	6.35E-03	4801	-27.3	1.00E-14
1065	-18.40	1.10E-06	2316	16.4	3.38E-05	3560	10.9	3.46E-03	4802	18.0	1.83E-06
1068	-24.40	3.14E-04	2318	-22.3	4.22E-08	3561	-15.4	1.42E-03	4803	22.7	1.31E-09
1069	-24.30	2.66E-04	2321	-11.4	2.53E-03	3563	-33.2	3.28E-08	4807	34.0	1.46E-13
1072	20.60	8.59E-08	2322	10.8	4.61E-03	3568	19.7	4.03E-08	4808	-16.5	1.44E-05
1074	21.20	1.10E-04	2323	19.2	2.66E-09	3569	17.7	2.48E-06	4814	16.1	9.30E-05
1075	-20.20	2.51E-04	2324	-22.8	1.45E-07	3575	-31.4	9.51E-04	4817	-15.5	6.49E-05
1078	17.30	1.45E-03	2325	-36.5	4.82E-22	3579	21.5	2.42E-12	4821	-20.7	5.70E-05
1084	23.10	4.00E-08	2327	-22.4	6.67E-03	3582	-10.4	5.74E-03	4826	18.8	6.28E-04
1087	19.30	9.06E-08	2328	14.4	5.59E-05	3591	45.1	3.29E-09	4827	25.9	4.61E-08
1089	-14.20	1.43E-04	2329	-25.2	4.83E-10	3592	19.3	2.33E-06	4834	-48.3	3.64E-08
1094	25.20	1.47E-10	2330	10.5	5.69E-03	3593	-31.9	2.04E-16	4839	-15.3	5.50E-08
1097	-11.10	1.90E-03	2331	-9.9	6.98E-03	3594	33.2	1.19E-12	4843	25.1	8.95E-12
1098	-21.50	2.99E-08	2334	-12.1	1.28E-03	3595	-26.2	4.19E-04	4847	11.5	1.37E-03
1100	-24.70	3.97E-08	2335	-46.0	1.28E-26	3596	-22.3	9.06E-09	4853	-9.2	9.26E-03
1110	-23.70	1.18E-10	2338	-12.4	4.50E-03	3601	-24.3	1.68E-08	4854	-10.8	9.05E-03
1121	-15.50	4.02E-04	2343	22.7	3.18E-10	3602	19.1	3.87E-04	4858	-29.6	4.05E-13
1130	-26.10	8.22E-03	2345	-14.4	1.83E-04	3606	18.9	3.02E-07	4859	-16.7	1.98E-05
1138	-15.30	1.56E-03	2353	19.8	4.13E-05	3613	28.8	2.83E-14	4863	-26.0	2.63E-12
1140	28.60	2.75E-15	2354	-51.6	5.98E-11	3614	-14.2	3.30E-03	4864	-23.6	3.22E-09
1141	12.00	3.76E-03	2358	18.5	1.37E-04	3615	10.9	3.34E-03	4870	-24.7	1.07E-09
1142	-11.90	4.61E-03	2360	-12.2	1.21E-03	3617	39.2	1.24E-06	4871	-15.6	1.04E-04
1145	14.40	1.71E-04	2364	-14.5	9.67E-05	3618	37.6	1.15E-21	4873	23.7	6.29E-08
1148	21.40	3.46E-09	2369	-25.9	1.70E-12	3619	-26.3	9.31E-12	4879	-27.0	1.12E-12
1151	17.60	1.41E-05	2371	-17.6	3.52E-04	3622	-21.6	7.34E-03	4880	-37.3	3.73E-05
1152	33.20	1.08E-08	2373	-34.0	2.34E-10	3625	21.2	1.34E-15	4882	-11.4	2.81E-03
1154	-21.60	4.71E-05	2388	-13.8	4.37E-06	3629	14.0	9.47E-04	4885	10.9	5.38E-03
1157	-10.30	4.45E-03	2389	-22.3	3.71E-08	3631	-27.0	7.11E-13	4887	-22.3	3.53E-04
1158	13.00	9.91E-04	2390	-29.9	2.30E-11	3633	26.7	6.75E-04	4890	-25.9	1.20E-04
1160	10.50	6.86E-03	2394	-20.2	5.09E-07	3636	-28.3	1.63E-11	4893	28.5	1.08E-14
1161	29.30	2.54E-14	2396	-29.8	4.28E-09	3647	-16.1	7.99E-05	4894	-22.0	2.15E-08
1162	18.30	1.15E-07	2399	-16.2	2.72E-05	3649	18.2	2.11E-06	4898	25.6	1.58E-19
1163	32.80	5.05E-07	2400	20.9	7.57E-07	3652	-59.8	3.24E-10	4904	-15.2	5.41E-05
1164	13.70	1.28E-03	2407	40.0	1.47E-05	3655	-14.8	2.99E-03	4905	-28.2	9.13E-06
1165	17.50	3.35E-05	2413	25.2	2.14E-10	3661	-23.4	1.93E-09	4909	-11.2	1.38E-03
1167	23.90	2.95E-10	2414	25.1	1.76E-10	3668	23.6	1.88E-10	4911	33.8	3.38E-12
1170	-23.80	9.72E-15	2422	-25.6	5.76E-11	3669	17.8	9.59E-07	4914	-26.2	3.98E-11
1171	22.10	3.26E-09	2423	11.4	2.63E-05	3673	16.8	3.05E-03	4917	10.0	9.88E-03
1172	-17.40	4.24E-06	2424	-26.2	2.58E-05	3683	-10.3	8.14E-03	4919	37.6	4.45E-05
1182	20.90	1.95E-07	2427	-34.2	1.14E-20	3684	18.6	3.86E-07	4920	29.2	3.70E-14
1183	29.30	3.37E-14	2432	17.3	1.26E-05	3687	-25.6	9.91E-03	4924	24.1	9.57E-11
1185	20.60	1.70E-07	2433	15.5	2.11E-03	3693	-15.3	1.52E-04	4927	12.9	2.26E-05
1186	15.60	9.65E-06	2436	11.7	1.05E-04	3695	-28.6	3.00E-06	4929	-15.9	2.03E-04
1187	19.00	2.02E-07	2438	-20.0	5.63E-03	3696	-19.9	1.02E-04	4936	-40.0	1.38E-18

1188	19.10	1.48E-07	2442	21.9	1.77E-03	3697	-12.2	7.54E-04	4937	16.7	9.15E-06
1195	23.40	3.56E-10	2446	33.6	2.36E-15	3699	-14.2	1.43E-03	4938	17.3	3.81E-06
1201	-15.40	5.75E-05	2452	15.7	5.25E-03	3700	38.4	2.23E-21	4946	-12.0	8.88E-04
1202	27.10	2.44E-03	2453	-10.6	7.20E-03	3704	24.7	1.94E-08	4951	15.5	5.42E-05
1210	-10.00	8.25E-03	2456	16.8	6.54E-04	3706	-19.3	3.67E-06	4957	14.2	9.59E-05
1212	21.40	7.23E-04	2461	-30.7	1.88E-05	3708	37.5	1.29E-23	4958	26.5	5.88E-13
1213	26.50	4.27E-12	2465	-31.4	6.11E-20	3709	-25.9	7.12E-07	4960	34.3	8.78E-06
1214	25.50	8.45E-10	2466	-13.1	4.45E-04	3713	23.2	2.64E-07	4962	-35.0	1.23E-06
1218	-20.50	5.23E-03	2470	-39.9	9.48E-12	3714	-10.1	1.29E-04	4967	9.5	4.77E-03
1222	-17.80	1.11E-06	2471	36.6	2.71E-22	3722	29.2	4.78E-16	4973	18.4	9.25E-06
1226	-23.40	1.06E-07	2472	-24.0	2.77E-08	3723	-22.7	3.19E-03	4976	-40.0	4.65E-10
1229	-28.60	1.21E-13	2473	20.8	1.36E-03	3726	15.3	4.40E-05	4977	-25.2	1.71E-06
1230	21.40	2.07E-03	2476	39.0	2.08E-25	3727	-29.5	4.20E-12	4978	-31.6	5.73E-04
1237	-25.30	3.05E-09	2479	8.4	1.29E-03	3729	-32.8	7.89E-15	4982	-20.9	3.86E-08
1238	18.10	1.23E-07	2480	7.2	7.58E-03	3730	15.0	5.06E-07	4986	-17.5	9.01E-04
1239	-32.90	1.22E-13	2483	15.5	1.66E-04	3731	15.7	2.93E-05	4987	-37.3	2.91E-05
1241	25.60	4.33E-04	2484	29.6	5.24E-16	3734	18.6	9.06E-07	4991	-27.3	3.99E-13
1242	11.40	6.42E-03	2485	29.7	2.15E-17	3735	-21.0	8.60E-04	4994	-18.3	3.09E-06
1243	10.40	7.33E-03	2486	16.6	9.66E-06	3736	22.7	8.74E-05	4995	-21.6	1.65E-04
1244	42.70	3.22E-35	2489	14.8	7.55E-04	3740	-29.0	4.36E-13	4996	-37.9	1.50E-12
1251	39.80	1.49E-16	2490	-35.1	4.08E-05	3742	-30.6	1.04E-10	5003	-18.6	1.96E-03
1252	-38.90	8.74E-19	2491	36.6	3.91E-24	3745	22.3	5.58E-09	5004	-55.0	2.77E-13
1255	15.30	1.17E-06	2492	-23.6	2.21E-05	3749	-42.4	1.93E-26	5005	-55.0	2.87E-13
1256	26.10	3.56E-10	2494	10.2	8.70E-03	3750	-18.1	3.39E-06	5010	-22.0	6.06E-05
1263	-16.30	2.14E-03	2495	13.3	7.13E-04	3752	-23.8	8.54E-11	5011	24.2	6.81E-03
1265	26.20	8.70E-08	2501	-11.8	8.19E-06	3753	-19.6	4.31E-06	5013	11.7	8.77E-04
1266	-25.30	1.30E-11	2508	-12.6	8.23E-04	3757	14.1	2.54E-03	5016	-23.9	1.32E-14
1267	17.20	5.43E-06	2510	-45.7	9.30E-05	3759	-38.7	2.02E-20	5025	42.9	1.60E-35
1268	-20.50	3.72E-03	2511	22.8	4.92E-07	3760	40.9	2.38E-32	5028	-11.9	6.71E-04
1270	-19.90	1.83E-05	2515	21.7	3.26E-04	3761	11.4	2.23E-03	5030	-12.1	7.22E-04
1272	-35.70	8.20E-09	2516	-17.6	4.56E-04	3762	-32.0	5.83E-06	5036	19.5	3.64E-07
1276	-32.30	1.33E-12	2518	10.8	3.98E-03	3763	29.3	7.85E-09	5037	-11.1	2.62E-03
1277	-23.70	1.30E-03	2521	20.8	7.97E-06	3768	-33.5	1.77E-05	5044	-18.5	3.64E-04
1278	-14.60	1.98E-04	2522	-37.0	4.63E-24	3770	21.6	2.42E-09	5046	-14.3	8.58E-05
1281	16.90	5.07E-05	2523	-37.6	1.63E-24	3771	-31.8	1.87E-11	5053	-17.0	5.19E-04
1283	20.70	3.03E-05	2527	19.8	2.39E-08	3772	-46.0	2.35E-19	5061	-36.1	3.24E-08
1287	-50.70	7.28E-33	2532	-35.4	1.49E-16	3773	-19.1	9.28E-03	5063	-31.1	4.81E-07
1291	21.30	5.20E-08	2534	23.6	2.18E-04	3776	-19.1	2.05E-06	5066	-12.2	7.10E-04
1294	21.20	7.20E-11	2535	29.4	8.33E-09	3777	-27.8	1.63E-04	5069	16.9	1.76E-05
1295	16.30	4.70E-04	2537	11.9	2.24E-04	3778	-12.5	1.09E-03	5070	25.7	2.15E-08
6856	-20.30	1.11E-07	7426	11.8	2.18E-03	7906	11.2	3.22E-03	8425	-34.2	1.64E-20
6857	-13.70	2.23E-04	7427	-21.1	7.26E-05	7910	21.7	3.30E-04	8426	-28.4	5.30E-11
6864	-24.20	3.06E-11	7429	10.8	4.54E-03	7914	12.7	6.88E-04	8430	29.3	9.72E-05
6865	11.80	5.40E-03	7430	-18.3	1.34E-06	7915	10.6	4.54E-03	8431	-10.8	5.35E-03
6866	32.10	6.12E-07	7434	29.1	4.22E-20	7917	22.4	1.56E-03	8433	-32.2	2.91E-14

6867	-17.70	3.71E-04	7437	14.4	5.13E-05	7921	-31.3	1.28E-08	8434	-32.4	5.57E-04
6869	-37.40	1.00E-21	7439	22.5	5.99E-05	7927	23.5	3.82E-10	8436	-15.3	4.41E-04
6870	-25.50	9.63E-05	7441	-11.4	5.49E-03	7929	10.8	8.07E-03	8446	-14.5	9.44E-05
6871	-10.30	9.83E-03	7443	-47.3	4.47E-09	7932	13.7	4.23E-04	8451	-23.7	3.94E-08
6877	15.20	1.25E-03	7447	-12.4	1.34E-03	7933	22.2	8.67E-03	8454	-41.5	1.46E-28
6879	-13.60	3.50E-04	7448	-33.6	1.98E-20	7937	8.7	8.37E-03	8456	10.2	6.06E-03
6882	20.70	2.52E-03	7449	-11.9	7.71E-03	7939	20.1	5.86E-08	8457	25.9	2.47E-05
6886	-16.20	4.93E-05	7453	-22.0	1.01E-08	7941	26.9	1.46E-09	8460	-18.1	3.13E-05
6887	-13.80	2.47E-04	7455	-26.6	5.22E-03	7942	-14.8	5.08E-05	8466	36.1	4.20E-20
6889	-9.80	9.50E-03	7460	33.5	2.20E-17	7948	-10.1	7.17E-03	8467	26.8	8.76E-14
6891	-22.30	5.47E-07	7461	22.2	5.03E-03	7949	-23.4	1.10E-07	8470	-11.5	2.66E-03
6894	37.20	1.35E-15	7464	-24.7	1.94E-06	7950	-28.5	1.27E-13	8471	-10.4	8.27E-03
6895	22.60	8.00E-08	7467	-10.4	8.69E-03	7953	14.5	8.76E-04	8473	12.1	5.39E-04
6900	-22.70	1.04E-03	7468	25.5	6.33E-13	7956	-33.7	3.35E-13	8476	-12.1	8.09E-04
6904	8.20	1.61E-03	7469	-21.3	1.19E-03	7963	-11.1	6.81E-03	8477	-11.9	9.78E-04
6906	12.90	6.17E-04	7471	-13.7	8.48E-04	7964	15.7	9.38E-06	8478	-11.8	1.08E-03
6907	12.90	6.16E-04	7472	22.6	7.94E-08	7965	32.7	1.36E-20	8480	-10.3	8.70E-03
6909	-19.90	5.96E-03	7476	-26.9	1.15E-04	7966	-32.4	7.65E-14	8484	-19.5	1.59E-04
6910	21.20	8.63E-06	7478	-31.8	7.61E-05	7973	13.8	2.48E-03	8486	14.6	3.92E-04
6916	13.20	1.56E-03	7490	-21.4	1.96E-09	7974	20.9	9.50E-06	8488	17.1	3.88E-09
6919	-12.60	2.02E-03	7491	19.4	3.27E-04	7981	13.9	7.10E-04	8489	-12.6	8.12E-03
6926	16.70	2.07E-04	7493	18.3	7.17E-07	7982	33.6	8.46E-16	8490	-27.9	2.65E-04
6928	26.20	3.66E-10	7494	-10.9	4.66E-03	7997	13.5	4.23E-03	8501	42.3	1.39E-11
6933	-29.70	9.99E-07	7495	-17.4	7.16E-04	8002	-17.0	1.82E-03	8503	-24.1	6.97E-06
6934	-29.70	9.77E-07	7496	-15.7	8.08E-06	8003	-10.7	7.44E-03	8508	-22.0	1.26E-09
6936	-15.80	1.94E-04	7497	22.7	1.07E-10	8006	-25.6	2.37E-10	8512	-40.4	1.57E-05
6938	-20.00	5.81E-09	7498	17.1	6.27E-04	8007	-46.7	5.83E-06	8514	-19.2	7.15E-04
6939	21.80	1.47E-06	7500	22.8	2.15E-03	8008	-14.4	1.18E-03	8521	11.0	2.34E-03
6942	-9.90	2.53E-03	7502	-26.0	4.04E-11	8009	-30.0	4.48E-14	8529	-32.9	1.01E-05
6945	21.40	4.08E-09	7504	-20.9	2.39E-04	8012	-34.9	4.10E-10	8531	-18.9	2.12E-03
6949	-10.30	2.94E-03	7506	-25.3	4.36E-12	8018	35.9	7.31E-11	8532	-11.5	9.67E-03
6953	34.60	2.26E-22	7507	-23.1	9.04E-08	8021	17.2	2.03E-04	8537	-12.4	5.79E-04
6954	-17.70	4.57E-06	7508	-17.0	2.57E-03	8024	-39.3	9.49E-25	8539	19.1	1.72E-07
6962	28.30	4.13E-14	7515	-43.3	3.57E-20	8025	-57.7	2.42E-17	8540	11.5	2.57E-03
6965	-9.90	5.31E-03	7516	-41.8	7.04E-20	8026	23.4	1.61E-04	8545	10.5	8.51E-03
6967	-13.20	8.05E-05	7517	-15.3	1.52E-03	8032	-30.9	8.88E-18	8546	13.6	2.15E-04
6980	-22.00	7.23E-10	7520	25.0	4.74E-12	8037	-37.9	5.23E-12	8547	-22.6	6.84E-04
6989	-34.10	1.83E-09	7524	-22.3	3.02E-08	8040	34.8	3.69E-12	8550	-19.7	5.04E-07
6991	-12.30	3.52E-03	7525	-22.1	4.13E-08	8044	7.7	3.63E-03	8554	-26.3	1.43E-05
6996	48.60	1.16E-36	7532	-29.7	1.51E-08	8046	33.8	6.22E-14	8557	-34.6	1.42E-07
6998	-25.90	3.09E-07	7533	25.6	4.48E-10	8048	-16.0	7.72E-05	8559	27.7	2.74E-14
6999	-38.60	1.31E-25	7537	7.5	4.07E-03	8053	-10.4	7.32E-03	8560	18.5	6.69E-07
7004	18.40	1.23E-06	7540	12.4	1.72E-03	8054	12.8	6.59E-04	8561	13.4	5.43E-03
7011	-16.60	5.07E-05	7543	-18.5	1.44E-05	8055	29.1	5.67E-13	8562	-18.1	1.02E-06
7012	-16.70	4.50E-05	7545	16.3	9.66E-05	8060	-10.3	5.13E-03	8563	19.5	3.28E-05
7013	-24.60	1.91E-10	7547	-14.4	8.11E-05	8062	-20.6	1.20E-05	8566	13.2	3.55E-04

7018	-31.90	2.05E-11	7548	-20.3	1.33E-07	8063	-21.3	5.79E-06	8574	15.4	1.40E-04
7020	12.40	2.76E-03	7549	-26.8	2.07E-12	8064	-12.4	5.94E-03	8576	-41.3	5.24E-23
7022	-19.20	9.21E-03	7559	27.2	1.38E-13	8067	-13.1	4.86E-04	8577	14.6	6.44E-05
7023	-22.80	2.94E-08	7560	32.3	8.34E-18	8070	11.7	1.90E-03	8578	21.8	1.00E-03
7025	-12.60	5.41E-04	7564	-19.2	1.72E-07	8071	-12.7	4.94E-04	8579	-35.7	1.16E-11
7027	-22.20	7.22E-06	7565	-20.5	1.47E-03	8072	-12.4	6.53E-04	8580	-16.3	1.49E-03
7028	27.50	4.74E-07	7568	32.1	3.48E-10	8073	30.1	2.68E-11	8589	-28.7	1.77E-07
7032	15.20	6.14E-05	7569	27.8	1.27E-12	8074	18.1	3.48E-03	8590	17.0	2.63E-04
7044	-28.10	1.15E-10	7570	-37.2	9.25E-26	8075	-22.3	1.07E-09	8591	-20.6	6.59E-07
7047	-12.30	7.16E-03	7571	25.4	9.96E-19	8083	-10.6	6.62E-03	8593	-14.5	3.63E-04
7049	11.70	1.24E-03	7572	18.2	4.32E-07	8084	25.0	9.32E-12	8596	-22.0	1.07E-06
7052	-45.10	5.37E-09	7573	26.3	1.15E-10	8085	-12.4	3.63E-03	8600	16.3	8.32E-05
7053	-16.00	6.14E-08	7575	-25.6	3.49E-05	8086	13.5	5.92E-04	8601	-17.4	5.45E-05
7055	-21.50	1.20E-07	7578	-36.6	2.72E-15	8087	-18.7	1.32E-06	8604	-25.3	2.95E-12
7058	-12.20	8.50E-04	7579	-15.5	2.97E-05	8088	23.0	2.85E-06	8607	-12.2	1.16E-03
7063	12.90	6.35E-07	7580	20.2	1.41E-07	8089	29.7	3.56E-10	8609	-14.4	6.71E-03
7064	18.40	6.46E-07	7582	-20.9	2.68E-07	8090	26.3	2.37E-07	8611	-33.2	6.32E-21
7068	21.70	3.23E-06	7584	17.4	4.08E-05	8092	-17.1	4.72E-03	8613	-36.8	1.53E-17
7069	-31.60	3.11E-11	7588	-22.4	7.52E-10	8094	14.9	7.57E-05	8614	-22.4	2.17E-07
7071	17.10	3.42E-04	7591	-16.1	5.72E-03	8097	-10.0	9.18E-03	8617	32.3	1.96E-08
7072	-30.90	4.33E-16	7594	-13.9	6.57E-04	8098	13.5	5.86E-04	8621	-25.1	1.16E-04
7073	-30.90	4.33E-16	7595	14.0	2.62E-04	8102	-25.5	3.13E-12	8622	20.4	1.77E-03
7078	-19.10	2.20E-04	7597	-15.0	3.11E-05	8105	27.1	1.28E-11	8624	24.0	2.21E-08
7079	22.70	2.16E-10	7601	-32.8	3.21E-13	8107	17.7	4.77E-03	8627	-19.3	3.12E-05
7082	16.10	1.60E-03	7605	-28.4	1.04E-11	8108	15.2	7.83E-05	8628	21.5	2.39E-03
7086	-37.60	5.39E-19	7606	12.9	1.07E-03	8109	14.4	1.85E-04	8630	16.7	1.62E-03
7088	-25.10	1.85E-06	7611	-20.9	1.44E-08	8110	-41.8	1.04E-13	8636	30.4	1.87E-11
7091	-10.60	9.16E-03	7612	17.9	9.85E-03	8111	-22.1	7.90E-09	8646	18.4	1.58E-04
7092	14.20	2.45E-04	7617	19.7	7.40E-03	8117	15.7	2.51E-05	8647	-22.1	1.02E-06
7094	-19.60	1.72E-05	7619	23.2	2.22E-07	8122	-9.6	8.80E-03	8650	-31.0	3.52E-08
7097	-15.50	2.92E-04	7624	24.2	1.24E-05	8127	26.4	4.09E-14	8651	-22.4	3.48E-06
7098	16.30	1.10E-05	7629	24.7	2.55E-04	8129	-19.3	1.06E-03	8654	13.1	5.76E-03
7101	-24.80	2.69E-14	7630	-25.4	1.86E-03	8133	-14.6	6.70E-05	8656	14.6	2.99E-04
7106	18.30	1.52E-06	7635	-13.6	8.39E-03	8141	-22.7	3.34E-04	8658	19.4	9.47E-04
7108	-30.20	6.89E-08	7639	-18.6	6.58E-07	8142	-34.0	1.26E-18	8659	-18.6	1.53E-03
7112	-33.40	8.93E-16	7640	-21.8	8.10E-03	8143	-33.3	4.49E-18	8662	-33.7	2.94E-04
7116	37.00	5.21E-27	7642	-20.6	5.30E-10	8145	-20.5	2.48E-08	8664	32.8	1.41E-10
7122	-22.70	7.86E-05	7643	19.8	4.22E-08	8146	20.9	1.53E-09	8668	-15.6	5.18E-04
7123	29.10	1.23E-11	7644	-29.9	1.06E-17	8147	30.5	2.86E-16	8673	11.0	4.59E-03
7124	21.60	8.20E-08	7645	-23.5	3.35E-04	8149	32.3	4.40E-19	8674	-14.7	7.01E-08
7128	19.20	2.11E-07	7646	-21.5	4.52E-04	8150	33.3	8.43E-13	8675	-22.4	2.48E-08
7129	-18.90	4.87E-07	7648	-54.9	1.47E-10	8152	-26.6	3.50E-12	8676	-28.7	2.17E-15
7130	18.00	3.94E-04	7649	-28.7	3.04E-09	8158	9.9	1.00E-03	8679	13.8	1.15E-04
7133	-10.60	7.65E-03	7656	11.7	1.79E-03	8159	-11.8	2.63E-03	8683	-46.5	2.34E-22
7135	36.40	1.33E-05	7657	14.6	1.07E-04	8160	-26.8	5.01E-12	8685	-24.0	1.21E-04

7136	31.60	1.03E-04	7658	-42.3	1.10E-04	8161	19.3	1.40E-07	8686	15.6	7.22E-06
7139	-17.90	2.71E-05	7659	-39.3	3.86E-14	8163	-37.0	2.23E-25	8689	11.5	3.51E-03
7145	15.70	2.52E-05	7660	42.9	3.56E-18	8164	21.8	7.10E-03	8690	-29.1	5.39E-11
7146	14.10	1.44E-04	7664	16.2	1.18E-03	8166	31.1	1.82E-16	8693	-57.1	1.64E-33
7147	14.40	9.62E-05	7665	28.0	6.94E-15	8167	-12.8	1.37E-03	8694	20.8	1.73E-06
7149	21.70	4.56E-06	7666	-17.0	6.68E-06	8168	-32.6	2.27E-18	8699	32.4	3.81E-19
7160	35.30	2.13E-15	7668	-19.0	1.39E-03	8184	-16.4	5.96E-05	8700	34.0	2.00E-13
7161	-25.80	2.29E-10	7672	17.3	1.72E-06	8188	22.7	9.08E-10	8704	-25.6	3.32E-05
7162	15.60	3.39E-05	7676	-29.9	3.43E-10	8189	-14.8	4.63E-04	8705	-28.1	1.41E-06
7166	-20.30	4.48E-07	7681	-19.2	2.65E-03	8190	-25.0	3.07E-04	8707	-29.9	2.80E-06
7170	13.40	1.84E-03	7684	-11.6	5.77E-03	8192	32.9	2.26E-16	8708	-29.8	3.99E-06
7172	24.20	7.38E-11	7688	11.2	3.14E-03	8193	24.7	2.22E-07	8710	-52.2	2.31E-23
7180	-32.50	1.96E-08	7689	48.3	1.95E-36	8194	-26.9	1.14E-06	8715	-27.2	5.03E-13
7181	-47.60	3.65E-09	7690	-37.8	1.84E-24	8197	-28.0	1.55E-04	8717	-19.5	4.78E-03
7184	-15.70	2.32E-05	7691	-38.1	9.59E-25	8202	55.0	7.48E-07	8721	12.5	4.36E-05
7190	24.10	9.82E-11	7693	-23.2	8.75E-07	8206	-20.9	1.84E-08	8724	36.3	1.91E-15
7195	-13.10	2.19E-03	7694	-30.9	8.11E-03	8207	22.7	3.35E-03	8726	-14.8	6.89E-04
7197	-37.20	2.44E-24	7696	-23.5	3.60E-03	8208	10.7	2.21E-04	8728	-54.0	6.21E-35
7198	-20.50	2.36E-05	7701	-29.7	2.60E-15	8212	-26.6	1.42E-09	8729	-24.8	3.36E-04
7199	-33.80	1.36E-15	7702	10.2	5.61E-03	8219	20.1	4.26E-05	8732	10.7	3.81E-03
7202	-29.70	9.96E-07	7708	-17.6	3.09E-06	8220	-29.6	7.15E-08	8733	-28.8	3.26E-12
7204	18.60	1.73E-06	7721	-47.4	9.13E-21	8230	-11.2	9.19E-03	8740	18.6	7.43E-10
7208	-18.10	1.36E-04	7722	-61.3	2.77E-15	8232	-14.1	1.57E-03	8744	-15.8	1.84E-04
7209	31.50	1.06E-09	7725	13.3	2.39E-05	8233	-35.3	1.50E-22	8747	17.1	4.71E-06
7213	12.60	1.39E-04	7726	15.6	2.53E-03	8235	-25.0	5.68E-11	8749	15.5	3.90E-04
7218	-34.50	7.55E-23	7727	22.3	6.46E-10	8237	25.3	1.04E-08	8751	-17.0	2.95E-07
7219	-36.20	1.13E-16	7730	-10.3	5.57E-03	8238	25.2	8.63E-09	8752	26.0	1.84E-04
7223	-42.00	5.87E-18	7737	-31.5	3.04E-18	8239	20.3	1.91E-07	8756	12.8	6.97E-04
7225	-24.60	4.98E-03	7738	17.2	8.14E-08	8240	-19.0	5.58E-06	8757	-19.4	3.03E-06
7227	27.10	3.56E-11	7739	13.7	3.93E-04	8243	-30.1	2.41E-10	8759	-30.4	2.04E-05
7228	27.50	1.97E-11	7742	-21.6	1.27E-07	8244	-20.6	3.43E-08	8762	-11.0	5.28E-03
7229	26.30	7.59E-12	7745	26.5	5.31E-13	8246	-27.4	3.66E-03	8764	-26.5	1.78E-04
7231	16.80	5.56E-06	7746	23.7	6.82E-04	8259	18.8	7.81E-13	8766	11.6	2.32E-03
7232	-27.60	2.00E-13	7747	21.5	4.82E-08	8260	30.8	6.94E-17	8767	-30.3	1.53E-10
7233	11.00	2.38E-03	7748	-32.1	1.34E-04	8261	44.8	3.91E-30	8771	12.5	2.72E-03
7239	-39.90	8.79E-08	7749	-17.2	2.30E-05	8264	-24.6	8.38E-05	8773	-21.8	3.31E-08
7245	11.10	1.93E-05	7750	19.0	3.10E-04	8267	-20.7	2.52E-04	8774	14.4	1.09E-04
7248	-11.00	7.32E-03	7751	16.5	1.14E-03	8271	10.5	5.97E-03	8777	-10.3	8.37E-03
7251	26.00	3.02E-10	7753	29.0	3.19E-11	8272	13.6	3.19E-03	8780	17.8	1.26E-03
7252	-17.80	7.68E-03	7754	11.9	8.54E-04	8274	12.3	7.19E-04	8785	-30.4	1.65E-03
7255	17.60	7.05E-04	7755	11.8	5.87E-06	8275	-14.4	4.94E-03	8786	-11.9	1.97E-03
7267	-17.00	4.95E-03	7757	11.9	5.79E-03	8276	-38.0	9.73E-25	8792	-32.8	1.31E-07
7271	-29.70	5.76E-17	7759	-17.1	5.73E-06	8277	-17.4	7.34E-03	8793	15.5	6.40E-04
7279	-12.70	1.14E-03	7767	-12.0	2.70E-03	8280	-16.7	3.92E-06	8795	-14.3	2.69E-05
7284	25.90	3.32E-03	7770	12.8	4.63E-03	8282	-19.2	9.32E-06	8796	26.1	5.58E-03

7286	14.10	2.71E-03	7774	21.5	1.33E-07	8283	-13.0	3.64E-03	8799	14.9	6.90E-04
7289	28.50	3.99E-14	7777	-34.4	7.62E-20	8284	-27.2	4.87E-05	8800	32.3	2.21E-09
7293	-23.70	1.08E-08	7779	-25.6	7.36E-03	8285	18.1	1.56E-06	8801	-32.6	3.03E-10
7296	-31.00	3.17E-07	7781	12.8	1.03E-03	8287	-22.9	1.01E-11	8804	-9.4	5.34E-03
7303	17.20	1.00E-02	7782	-12.4	3.91E-03	8289	-14.2	1.03E-04	8805	-25.5	1.66E-12
7304	-28.10	1.70E-06	7785	-24.6	6.83E-06	8290	-23.7	1.98E-05	8808	21.3	4.27E-09
7305	11.20	5.31E-03	7787	10.0	9.40E-03	8293	-14.1	1.32E-04	8810	-10.9	1.75E-03
7310	-17.30	3.42E-06	7788	16.6	4.81E-05	8300	-28.7	4.87E-11	8812	26.7	1.83E-04
7311	-27.10	5.73E-14	7789	21.6	2.74E-07	8308	28.9	1.21E-04	8814	-15.4	1.00E-03
7313	26.60	3.93E-12	7790	9.9	8.31E-03	8312	10.5	4.37E-03	8820	-11.7	2.42E-03
7315	-21.60	3.61E-05	7807	-16.0	5.08E-04	8318	-30.9	4.43E-16	8822	-25.2	4.19E-11
7316	-24.30	5.39E-08	7808	-28.3	7.45E-04	8321	-27.5	4.74E-06	8824	-25.8	4.11E-06
7317	-23.60	2.10E-07	7810	-30.4	5.76E-14	8330	13.7	5.71E-05	8825	-23.3	8.11E-10
7319	-32.40	2.02E-05	7812	-22.9	4.15E-03	8332	-23.2	1.89E-06	8832	-41.6	2.67E-08
7322	-9.80	3.55E-03	7814	-17.9	1.27E-06	8333	16.1	1.23E-05	8833	-8.0	2.00E-03
7326	-25.90	4.77E-04	7815	-13.1	1.89E-03	8334	-12.0	7.41E-03	8834	14.2	2.72E-03
7329	-43.50	7.05E-10	7816	-19.2	1.18E-06	8336	-22.2	4.64E-06	8838	-25.2	1.71E-06
7331	15.90	6.65E-04	7822	-44.9	4.33E-36	8340	-24.5	2.08E-06	8839	-39.4	1.74E-08
7335	-21.90	6.53E-05	7823	21.0	4.01E-09	8341	16.3	1.97E-05	8840	-19.3	1.50E-05
7336	18.50	7.19E-04	7825	-13.7	1.86E-04	8343	18.0	1.39E-05	8841	-31.0	7.99E-12
7338	-20.50	3.40E-06	7826	22.4	4.80E-09	8345	10.9	4.21E-03	8843	-15.3	7.91E-05
7341	-32.00	3.20E-04	7827	-23.8	1.33E-08	8348	15.2	9.25E-04	8846	-29.5	7.57E-07
7345	24.90	2.90E-07	7828	-33.6	2.47E-12	8349	-14.9	1.16E-03	8847	-26.2	5.84E-12
7351	11.70	1.52E-03	7830	-16.4	2.24E-05	8351	33.3	1.52E-20	8848	-47.9	2.15E-37
7352	13.80	1.81E-04	7831	-13.8	5.59E-04	8353	-27.6	1.44E-13	8849	-43.1	3.88E-15
7355	-17.30	8.67E-07	7837	29.1	5.72E-10	8354	-19.9	1.05E-03	8851	-25.8	7.02E-09
7357	34.50	1.32E-16	7843	27.1	5.65E-12	8358	-21.3	6.72E-07	8854	-40.7	1.87E-05
7359	-28.70	3.51E-04	7844	-14.8	1.17E-04	8359	14.0	1.90E-04	8857	29.0	4.84E-15
7367	-17.90	2.58E-05	7849	-18.8	1.23E-03	8361	15.3	6.51E-05	8863	-18.0	1.82E-06
7370	-32.80	3.38E-07	7854	-53.1	2.67E-15	8362	-16.7	1.17E-03	8865	-28.9	7.54E-13
7374	27.60	8.04E-14	7856	-26.8	3.21E-12	8363	-16.9	1.31E-03	8867	18.1	1.82E-06
7380	13.80	1.90E-04	7857	-26.9	5.43E-06	8365	-25.7	2.65E-10	8870	-16.2	3.23E-04
7386	-24.90	2.31E-11	7858	-31.9	4.13E-17	8366	-25.6	3.41E-10	8874	-17.5	2.31E-06
7388	-15.40	7.69E-05	7859	10.8	5.80E-03	8367	-13.5	7.26E-06	8875	24.3	1.96E-11
7390	17.90	3.66E-03	7860	-23.9	8.19E-08	8368	-18.9	2.01E-07	8877	-11.0	7.76E-03
7392	-37.00	3.56E-06	7861	-18.4	1.13E-04	8374	-13.1	3.62E-04	8883	-40.6	1.76E-06
7396	23.40	3.67E-10	7862	17.3	1.83E-06	8377	17.2	1.04E-05	8888	15.5	1.85E-05
7399	28.20	1.17E-03	7863	34.9	6.29E-21	8383	12.9	2.01E-03	8893	16.7	2.56E-06
7400	28.20	1.18E-03	7869	-39.9	1.55E-05	8384	-33.5	7.34E-06	8898	-30.7	9.31E-19
7403	-15.00	8.42E-03	7871	40.7	5.51E-21	8386	12.5	6.23E-04	8899	-22.8	2.14E-10
7404	-15.10	8.80E-03	7873	11.4	3.24E-03	8387	21.9	2.68E-06	8907	-16.9	6.44E-03
7406	20.40	1.38E-05	7876	-12.2	1.77E-03	8388	18.3	3.11E-07	8908	-35.7	3.64E-23
7407	11.20	2.30E-03	7877	-11.4	2.27E-03	8389	-31.3	5.52E-05	8909	-23.2	3.45E-03
7410	13.60	1.23E-03	7879	-23.8	3.26E-08	8391	-25.3	1.55E-11	8910	27.5	8.15E-14
7412	-28.80	2.64E-08	7885	12.8	8.83E-03	8395	-23.2	7.95E-11	8911	23.6	9.83E-11

7414	14.10	3.05E-06	7889	-24.6	2.60E-11	8397	14.2	3.75E-04	8915	-15.4	4.13E-04
7415	16.60	4.18E-03	7891	-24.2	4.06E-10	8398	23.5	4.20E-10	8916	-15.6	3.81E-04
7416	-17.90	5.40E-06	7897	22.7	1.84E-06	8402	-23.9	4.35E-07	8919	-28.6	3.53E-11
7421	-18.80	1.29E-06	7899	-13.3	2.40E-04	8420	22.7	1.30E-10	8921	29.2	6.63E-09
7424	35.30	2.68E-12	7900	-36.6	1.44E-09	8421	-30.2	1.07E-11	8922	-22.9	3.38E-10
7425	-11.70	9.57E-03	7901	13.8	5.14E-04	8423	-27.1	3.02E-11	8927	-11.5	2.42E-03
9293	-15.60	5.78E-05	9670	21.5	4.83E-08	10023	-20.3	2.39E-08	8928	-36.2	9.93E-17
9294	-15.50	5.40E-05	9671	14.2	2.72E-03	10025	-11.0	5.68E-03	8930	23.4	4.45E-06
9300	23.20	5.83E-10	9672	-30.1	1.63E-16	10026	-18.6	1.45E-06	8933	-17.0	4.67E-06
9302	19.80	2.73E-05	9673	33.9	5.52E-12	10034	11.2	4.99E-03	8938	18.0	5.64E-08
9304	-11.00	2.36E-03	9676	13.8	1.48E-04	10035	17.7	9.90E-06	8941	-30.2	5.72E-05
9306	16.70	5.04E-04	9677	-17.2	4.03E-05	10036	-15.3	5.66E-05	8952	19.9	4.93E-06
9307	21.00	1.00E-06	9680	27.6	8.56E-14	10039	-27.3	1.67E-10	8954	31.1	4.06E-19
9311	-11.30	3.36E-03	9682	-10.8	1.15E-03	10041	16.7	9.05E-04	8955	21.6	2.12E-09
9314	21.90	9.75E-06	9685	-34.4	1.80E-11	10043	-23.8	3.10E-03	8957	28.7	2.42E-11
9315	-15.20	7.04E-05	9686	-18.5	5.75E-03	10044	19.6	8.40E-08	8959	-27.5	1.72E-08
9319	15.60	1.49E-05	9687	-18.6	4.63E-06	10045	-22.9	2.32E-03	8960	-21.7	5.11E-08
9320	10.40	6.76E-03	9688	29.9	3.37E-16	10053	-19.1	2.93E-03	8963	-35.5	2.88E-11
9326	-26.10	8.10E-08	9691	-16.3	9.05E-06	10054	12.9	1.35E-03	8965	-12.5	8.85E-04
9327	-24.90	7.97E-05	9692	12.8	2.18E-03	10056	15.1	1.47E-03	8968	17.8	8.82E-04
9329	-29.00	1.50E-16	9693	15.9	4.20E-05	10059	-18.7	3.07E-07	8970	-19.8	8.18E-09
9330	-10.90	4.29E-03	9694	15.7	1.88E-04	10062	-35.3	4.64E-24	8971	12.2	3.31E-05
9334	-15.00	5.36E-03	9695	-24.1	9.40E-04	10064	-29.8	1.43E-03	8973	10.5	1.68E-03
9341	-10.90	2.93E-03	9698	32.4	3.31E-18	10066	-32.0	1.33E-18	8974	10.7	1.43E-03
9347	-39.30	8.39E-28	9699	-26.1	1.27E-08	10074	-19.7	1.58E-03	8980	-19.2	5.27E-07
9348	-9.00	4.79E-04	9701	-13.6	4.22E-03	10076	-11.1	2.51E-03	8981	-43.1	4.86E-27
9349	-32.00	1.03E-08	9703	12.4	8.84E-04	10077	-23.5	4.75E-17	8985	-59.7	1.91E-11
9355	28.40	2.43E-16	9707	-18.9	1.02E-06	10079	35.2	3.97E-09	8987	-18.9	7.40E-07
9360	-20.90	1.56E-05	9708	17.2	2.72E-04	10081	-11.6	2.53E-03	8997	23.5	9.74E-09
9362	-17.90	8.10E-06	9711	-14.8	2.16E-07	10084	30.2	1.68E-11	8999	19.3	1.03E-04
9367	-26.70	8.12E-07	9712	-40.5	6.21E-05	10092	-22.0	8.78E-09	9001	-13.5	1.01E-03
9368	34.00	1.25E-21	9714	26.2	1.39E-12	10095	25.7	7.94E-20	9003	19.7	5.87E-08
9369	19.20	5.72E-08	9715	-17.3	2.43E-06	10098	18.6	4.50E-04	9010	-10.4	3.61E-03
9371	-11.80	7.25E-03	9716	26.4	3.52E-12	10101	16.3	6.57E-04	9011	29.9	5.66E-17
9373	21.70	2.43E-08	9719	-15.0	6.17E-05	10102	32.4	5.87E-11	9015	-21.6	1.40E-04
9376	19.30	1.39E-05	9722	-24.7	5.10E-09	10103	-14.9	1.49E-04	9023	-11.9	1.24E-03
9379	19.30	1.11E-04	9723	15.7	4.49E-03	10104	-16.0	1.13E-05	9027	-16.3	1.96E-05
9381	-22.00	2.65E-08	9725	-27.5	2.89E-12	10107	-17.0	1.72E-05	9029	20.2	3.87E-03
9383	-29.90	2.62E-16	9730	-39.6	2.97E-15	10108	-30.5	2.25E-03	9030	18.9	2.37E-07
9386	-18.00	1.88E-05	9732	-31.7	6.98E-08	10110	19.7	1.48E-07	9034	12.8	2.90E-03
9388	-33.20	1.24E-07	9736	-16.2	1.37E-05	10114	31.1	1.48E-08	9037	10.4	8.86E-03
9390	-30.10	1.56E-06	9746	27.2	1.36E-08	10117	-23.2	1.45E-09	9040	-25.1	1.60E-11
9394	-39.10	1.40E-15	9747	-53.3	8.61E-16	10119	-15.8	1.28E-05	9043	-31.2	4.65E-07
9397	-22.40	2.73E-08	9749	12.9	4.50E-04	10124	-31.7	2.04E-16	9046	-46.5	9.04E-20
9402	-35.30	3.89E-14	9751	15.2	2.40E-03	10127	-38.7	5.02E-13	9049	-33.9	2.56E-04
9405	-29.40	9.80E-10	9757	-33.7	1.66E-03	10132	16.2	9.33E-05	9050	-41.4	3.86E-20

9406	-18.00	5.01E-12	9766	17.9	2.98E-03	10134	-29.9	1.48E-03	9052	31.0	8.13E-16
9408	-13.60	7.50E-04	9767	-44.4	4.30E-06	10138	-34.4	4.94E-06	9054	-18.3	3.27E-04
9409	-11.00	6.18E-03	9768	-15.0	3.89E-03	10139	-17.4	1.84E-06	9055	-28.2	8.95E-11
9415	10.50	1.58E-03	9769	26.4	6.11E-05	10148	-22.7	1.22E-08	9057	-22.4	2.47E-11
9420	16.40	9.33E-04	9771	-17.1	1.13E-05	10150	-10.7	2.17E-03	9059	-15.5	3.95E-03
9421	-19.80	9.58E-05	9774	-12.1	3.69E-03	10156	-28.0	4.64E-04	9063	-20.6	2.76E-08
9423	-19.00	4.40E-06	9777	25.9	8.89E-05	10157	-9.7	7.52E-03	9064	-18.8	3.27E-07
9424	-29.20	3.55E-11	9779	23.7	2.26E-04	10160	38.2	2.18E-30	9065	24.7	1.06E-07
9430	-13.70	2.43E-04	9780	-17.1	1.31E-03	10161	-39.2	1.49E-14	9068	26.1	3.14E-09
9437	-45.10	4.50E-10	9781	-24.3	5.39E-08	10162	-32.4	1.43E-17	9069	31.4	1.43E-06
9438	17.40	3.12E-03	9782	-27.6	7.58E-14	10163	22.6	4.45E-09	9073	17.2	2.10E-04
9447	-30.40	3.38E-05	9788	16.8	8.61E-04	10176	12.4	7.60E-04	9082	-26.2	1.87E-12
9448	-21.80	1.82E-08	9794	-14.3	2.48E-04	10177	31.1	1.89E-16	9084	-34.2	6.48E-14
9449	16.90	6.71E-04	9796	-23.5	3.37E-03	10182	15.7	6.85E-03	9086	8.0	4.00E-03
9452	-37.00	1.85E-12	9808	-9.9	8.04E-03	10183	-34.2	5.86E-04	9087	-30.6	6.54E-20
9453	16.70	3.64E-05	9809	15.3	9.90E-04	10186	-16.1	1.10E-03	9089	-30.7	5.09E-13
9455	-12.00	3.94E-03	9810	-11.0	4.77E-03	10187	-10.7	1.24E-03	9095	-46.6	1.19E-08
9458	-23.50	3.42E-03	9813	17.1	3.38E-06	10193	-12.9	4.76E-03	9096	-10.7	4.03E-03
9459	-23.90	1.96E-09	9815	14.1	1.22E-04	10194	-24.2	1.56E-09	9098	10.0	7.09E-03
9460	26.70	1.99E-10	9817	11.8	4.34E-05	10195	17.6	3.06E-03	9099	-18.9	2.51E-04
9463	13.30	5.32E-04	9818	12.8	8.71E-06	10198	18.2	1.26E-05	9101	10.6	2.74E-03
9464	-18.60	1.86E-05	9819	-18.8	1.19E-06	10199	35.4	1.26E-23	9103	19.0	4.36E-04
9468	-22.50	3.62E-08	9820	17.2	3.28E-03	10200	39.4	4.71E-23	9108	16.7	8.80E-03
9473	-11.80	6.12E-03	9825	-21.3	2.32E-06	10208	22.0	2.80E-08	9110	-35.6	4.91E-07
9476	-14.20	2.82E-04	9833	-26.8	1.54E-03	10212	-36.8	2.95E-13	9113	-34.7	1.72E-11
9477	22.10	4.86E-08	9837	-19.2	3.63E-04	10222	-24.8	1.75E-03	9120	-20.7	1.95E-03
9478	18.00	3.28E-03	9838	-24.5	1.95E-11	10226	10.3	4.60E-03	9122	13.4	1.60E-03
9483	-22.60	1.10E-05	9844	26.6	7.25E-06	10230	13.9	2.96E-03	9123	-11.6	1.02E-03
9486	-36.90	1.82E-08	9847	24.4	4.86E-09	10233	13.6	1.05E-03	9125	-42.4	5.04E-10
9487	-28.10	1.90E-04	9848	25.8	1.55E-06	10240	19.6	2.48E-03	9127	-40.9	6.73E-30
9491	-39.50	5.48E-08	9851	-28.4	3.82E-05	10253	12.4	4.59E-03	9129	42.3	4.92E-34
9493	-25.70	1.27E-12	9859	-15.2	1.38E-04	10257	18.5	6.29E-04	9132	-20.1	3.55E-09
9494	-41.00	1.80E-06	9860	-29.0	5.07E-08	10258	-21.1	1.35E-05	9135	10.9	5.44E-03
9498	-18.40	1.81E-06	9863	-29.1	5.07E-11	10261	13.8	3.77E-03	9140	23.3	5.26E-07
9500	-21.00	3.94E-07	9866	-22.7	5.42E-09	10268	-22.5	6.50E-10	9142	14.7	1.24E-04
9506	15.30	2.67E-03	9867	-26.3	5.31E-12	10269	-25.3	3.04E-04	9150	14.2	1.28E-04
9507	13.80	1.83E-04	9868	-36.7	2.23E-15	10274	-26.7	1.47E-07	9158	14.5	5.91E-04
9508	24.70	8.05E-12	9869	-33.3	2.08E-11	10277	-18.0	2.02E-03	9159	18.8	3.62E-10
9516	-13.10	1.88E-03	9874	-26.5	3.99E-12	10282	23.3	1.83E-03	9161	-14.9	4.97E-05
9517	-26.60	3.53E-10	9876	16.7	7.52E-06	10283	-26.0	8.47E-09	9165	18.5	3.60E-12
9519	-25.60	7.10E-05	9879	13.1	4.05E-04	10286	-17.4	2.13E-05	9166	-25.4	4.61E-11
9521	-10.50	4.30E-03	9882	17.9	3.46E-06	10289	-31.7	2.06E-11	9173	21.6	1.69E-08
9529	10.50	5.08E-03	9889	19.1	4.27E-06	10291	-13.9	1.10E-04	9178	-26.2	2.13E-05
9530	-19.30	2.56E-04	9891	20.4	8.04E-08	10292	-17.9	4.42E-03	9179	-25.0	4.76E-05
9531	-41.10	2.27E-30	9892	-16.6	2.44E-04	10296	-15.1	9.83E-05	9182	-16.0	1.68E-05

9532	17.20	6.77E-03	9894	-18.2	5.61E-07	10298	25.0	6.81E-04	9183	-37.1	1.59E-25
9533	-16.60	3.82E-03	9897	-10.0	6.60E-03	10299	24.9	8.42E-08	9184	23.6	7.14E-10
9534	-16.40	4.88E-03	9905	18.3	2.62E-03	10300	-18.3	4.51E-06	9187	-11.3	1.42E-04
9540	-22.60	4.28E-08	9907	-24.4	2.05E-03	10301	14.8	7.01E-04	9188	-11.8	1.38E-03
9542	-23.20	8.15E-03	9908	11.5	1.27E-03	10302	19.3	1.41E-07	9191	-10.7	7.75E-03
9543	-15.80	2.89E-05	9914	-26.0	3.81E-03	10304	-16.1	3.79E-05	9192	-26.5	3.32E-12
9544	12.20	1.11E-05	9917	-25.1	4.88E-08	10305	-22.8	1.43E-09	9193	-39.6	3.75E-05
9548	12.80	9.41E-05	9919	9.5	9.01E-03	10311	-26.6	2.05E-04	9194	23.8	4.47E-09
9552	14.90	7.39E-05	9921	20.0	7.33E-05	10312	-13.2	5.38E-04	9196	-23.0	2.48E-07
9553	-14.20	2.07E-04	9924	19.3	2.38E-07	10313	-14.5	1.01E-04	9201	18.8	3.55E-06
9554	-13.40	2.39E-04	9925	20.4	1.03E-07	10315	-26.9	6.81E-07	9207	15.3	2.87E-05
9557	-29.70	3.96E-15	9927	19.9	6.32E-06	10317	-15.2	5.20E-04	9208	-15.2	8.67E-03
9558	-29.50	7.58E-15	9932	-16.8	4.28E-04	10331	13.7	1.66E-03	9209	16.5	2.18E-03
9566	-10.80	6.57E-03	9936	-11.2	2.17E-04	10333	28.5	3.39E-14	9210	12.8	1.03E-03
9575	40.70	2.08E-27	9945	-30.3	2.27E-15	10341	-34.1	4.66E-16	9213	25.0	4.47E-09
9576	-28.90	9.47E-03	9946	54.8	1.80E-45	10342	19.5	1.91E-05	9216	-10.8	3.45E-03
9578	17.10	4.52E-03	9949	-24.9	1.69E-05	10343	24.7	3.20E-11	9221	33.1	2.94E-06
9580	-15.70	2.27E-05	9950	-12.8	2.74E-03	10346	-42.3	4.59E-06	9222	21.4	5.50E-04
9581	-15.40	3.40E-05	9952	32.5	6.09E-10	10353	18.1	3.12E-03	9224	-25.8	8.92E-07
9587	26.80	2.90E-13	9956	17.6	3.95E-04	10355	16.5	5.76E-05	9225	17.5	9.60E-10
9589	-13.50	3.04E-04	9957	-32.1	2.86E-14	10357	18.2	2.70E-05	9232	-18.3	1.91E-05
9597	-20.60	6.88E-04	9959	27.6	8.56E-14	10358	-24.3	2.30E-06	9236	-11.0	2.64E-03
9598	-22.40	2.28E-06	9961	25.8	2.78E-13	10362	-20.1	9.07E-07	9237	-27.2	3.78E-15
9602	16.90	2.88E-03	9962	-17.3	9.54E-06	10363	18.6	1.00E-06	9239	13.9	3.01E-03
9612	19.00	2.99E-03	9964	21.5	1.82E-05	10366	-14.0	5.14E-03	9241	-20.2	5.54E-07
9615	-18.50	9.25E-07	9967	-13.7	9.38E-04	10367	12.4	7.13E-04	9244	-11.8	1.71E-03
9617	-27.70	7.30E-09	9973	-27.3	6.02E-08	10368	20.7	4.62E-05	9248	28.8	2.36E-12
9619	20.00	2.45E-05	9975	-11.2	2.33E-04	10369	-15.4	9.63E-04	9254	10.5	8.59E-03
9622	17.60	2.57E-03	9976	12.2	1.30E-03	10370	28.5	1.36E-15	9255	-21.8	2.34E-03
9624	15.90	2.14E-05	9981	-28.3	2.15E-14	10371	-16.0	2.54E-05	9260	-20.3	1.23E-07
9625	27.10	3.25E-04	9982	-15.1	4.75E-05	10372	-14.6	8.19E-08	9264	16.3	8.29E-06
9628	-23.40	2.98E-05	9986	-14.4	7.98E-03	10373	-22.3	2.50E-08	9265	26.7	1.02E-04
9629	-7.70	4.95E-03	9989	21.5	7.16E-07	10375	-25.5	4.06E-08	9267	-18.8	1.21E-05
9630	11.50	8.40E-03	9992	-31.4	3.15E-07	10386	-11.0	3.50E-03	9269	-21.0	5.64E-08
9633	-39.60	1.86E-07	9993	-13.2	7.90E-07	10387	-12.1	1.48E-03	9273	-18.2	1.89E-05
9636	-41.60	1.07E-16	9994	17.3	1.63E-06	10390	-15.4	1.34E-03	9275	-10.5	7.47E-03
9640	-11.30	2.05E-03	9995	33.1	5.30E-20	10396	-34.5	1.67E-12	9278	13.1	8.88E-04
9646	-20.40	1.14E-07	10000	-11.6	2.28E-03	10399	13.6	7.63E-04	9281	-32.1	2.92E-16
9647	-49.10	6.70E-13	10006	-19.7	1.57E-07	10402	-29.2	7.26E-17	9284	-17.7	2.98E-07
9657	20.10	9.03E-06	10010	-18.5	8.14E-07	10404	-9.3	9.46E-03	9288	-30.7	8.32E-16
9660	-18.20	2.92E-05	10011	-30.8	4.69E-16	10408	-17.5	9.21E-06	9289	-22.7	1.04E-04
9664	-13.80	3.67E-03	10020	12.5	2.73E-04	10411	-27.5	2.88E-04	9290	-15.8	4.16E-05
9665	-45.30	1.38E-22	10021	-18.4	1.35E-05	10415	-15.1	1.67E-03	9291	23.7	7.00E-04
11103	18.60	4.09E-07	11359	-32.7	6.91E-21	11622	11.8	1.61E-03	11900	-38.8	8.75E-13
11108	-14.00	3.28E-04	11360	17.0	2.95E-05	11631	10.7	4.01E-03	11902	-36.6	2.10E-05

11115	-22.30	7.14E-06	11362	-28.4	4.62E-04	11638	-26.8	2.51E-05	11906	-11.9	7.89E-03
11116	-15.40	8.84E-03	11374	-13.7	2.77E-04	11639	-16.0	6.82E-04	11908	19.4	9.99E-08
11127	-20.70	1.20E-07	11381	-17.5	2.87E-03	11641	15.5	6.64E-04	11915	-16.3	1.42E-05
11139	-19.10	1.46E-07	11382	-23.8	1.38E-09	11647	-23.7	1.89E-03	11929	15.5	2.26E-07
11140	13.10	1.18E-03	11384	-24.7	9.65E-11	11649	-15.0	4.45E-05	11931	14.9	5.32E-05
11142	12.50	1.13E-03	11386	-52.7	1.75E-15	11659	-17.6	1.91E-06	11933	-14.5	6.25E-04
11149	15.80	6.27E-05	11390	-25.8	8.82E-09	11680	-15.7	1.29E-05	11935	21.7	1.51E-06
11151	20.90	3.06E-04	11391	11.9	5.50E-03	11684	29.6	5.36E-13	11936	-21.5	4.06E-10
11153	-18.50	2.64E-06	11396	13.3	2.51E-04	11686	28.5	1.73E-15	11940	-26.3	3.00E-12
11157	-22.00	2.32E-07	11400	-21.0	8.83E-06	11692	-19.1	2.52E-03	11947	-26.0	2.52E-13
11159	48.20	1.93E-40	11405	17.7	3.20E-04	11695	-14.5	6.09E-03	11948	-14.6	5.47E-03
11161	-19.50	5.78E-05	11408	-31.7	4.48E-13	11701	-33.5	2.81E-16	11950	-14.5	1.98E-07
11166	-37.60	1.35E-25	11410	-12.2	1.40E-03	11702	14.5	2.04E-04	11961	-29.6	1.39E-14
11172	-28.10	5.01E-16	11412	18.2	3.01E-06	11705	30.0	2.53E-14	11963	15.9	8.74E-06
11173	35.40	3.19E-19	11413	44.4	1.35E-08	11714	-14.9	1.99E-04	11966	18.4	4.29E-04
11177	33.60	2.32E-05	11415	-51.0	2.11E-10	11719	-14.4	2.66E-03	11976	-15.3	2.72E-03
11181	-33.20	4.01E-06	11417	17.1	7.07E-06	11721	10.5	4.63E-03	11977	-14.6	4.87E-05
11184	40.00	2.54E-24	11422	-21.5	3.05E-05	11722	-17.2	3.36E-06	11982	-28.8	8.00E-06
11189	16.40	6.91E-06	11427	-24.3	1.53E-05	11724	-18.2	1.51E-06	11986	11.9	4.57E-03
11191	-31.40	2.46E-18	11436	20.3	5.92E-03	11726	20.4	1.93E-08	11990	26.8	6.12E-04
11196	22.30	2.34E-10	11437	13.9	1.26E-03	11728	-29.4	9.59E-09	11998	26.5	1.17E-06
11201	-25.20	7.00E-07	11439	21.4	1.28E-03	11731	12.9	6.37E-04	11999	12.0	4.32E-03
11202	-10.50	4.89E-03	11443	-15.4	3.14E-04	11742	20.6	6.99E-04	12000	-25.1	3.76E-11
11206	-33.40	1.98E-18	11444	17.1	3.73E-06	11744	-17.4	2.06E-04	12010	27.5	9.68E-10
11210	22.80	2.18E-04	11446	14.6	7.93E-04	11748	-15.3	2.79E-03	12011	-13.3	3.83E-03
11213	-31.40	2.95E-08	11450	-25.5	4.91E-10	11756	11.9	1.33E-03	12012	-23.4	1.29E-04
11218	16.40	5.33E-03	11462	38.2	4.37E-15	11757	-27.2	6.61E-11	12013	-22.1	1.24E-08
11219	-21.00	9.87E-07	11468	-25.5	2.03E-04	11758	-21.3	1.26E-04	12015	24.0	2.42E-05
11224	15.50	1.55E-04	11471	19.4	1.81E-07	11759	7.2	7.65E-03	12022	-28.0	5.06E-06
11236	-29.10	5.33E-09	11480	-18.8	1.97E-06	11760	-16.9	2.57E-05	12032	44.6	1.53E-26
11239	-20.50	5.07E-05	11485	-36.5	3.79E-09	11767	-25.5	5.85E-04	12036	21.6	1.33E-08
11244	24.30	8.57E-12	11488	16.0	6.14E-03	11771	10.6	5.34E-03	12043	-18.6	2.42E-06
11249	-25.10	1.97E-12	11489	35.7	3.14E-08	11772	32.3	2.24E-11	12045	-40.1	1.93E-06
11251	27.70	8.60E-13	11492	-21.9	2.77E-09	11776	-21.6	1.94E-08	12060	26.1	2.58E-07
11254	-18.20	1.30E-10	11495	27.8	3.68E-16	11779	11.4	2.04E-03	12065	-23.4	1.27E-04
11270	-16.30	1.09E-03	11496	-11.1	2.39E-03	11780	23.6	9.57E-09	12066	33.1	1.65E-19
11277	20.20	4.98E-07	11497	31.5	5.32E-13	11788	-38.6	3.42E-06	12073	-37.5	1.38E-11
11280	28.30	8.74E-06	11499	25.6	6.10E-11	11801	-24.6	1.91E-03	12076	23.3	1.79E-10
11284	-11.40	4.41E-03	11500	24.5	3.01E-04	11803	-25.7	1.14E-08	12086	-13.7	3.84E-04
11288	-17.10	6.83E-04	11515	-17.5	7.60E-04	11815	19.4	1.17E-05	12087	9.1	6.58E-04
11290	-18.40	2.37E-06	11520	-38.0	2.41E-08	11818	-34.5	1.32E-09	12110	-28.5	3.59E-04
11294	-31.90	6.09E-09	11521	24.6	7.05E-06	11819	-18.7	5.45E-04	12117	19.7	2.47E-04
11302	15.80	7.60E-05	11547	27.9	2.84E-11	11825	18.8	5.06E-07	12118	-17.3	8.97E-03
11303	-16.20	2.11E-05	11549	-37.2	6.76E-14	11833	-24.1	1.52E-06	12121	25.7	2.00E-10
11305	12.20	4.26E-03	11553	35.8	8.59E-21	11839	-21.5	3.78E-06	12126	14.0	8.83E-05
11306	-35.40	4.46E-27	11556	37.1	1.53E-18	11845	14.3	3.00E-04	12127	16.9	6.79E-04

11311	-26.10	4.47E-13	11569	11.4	2.75E-03	11847	18.4	8.53E-06	12130	-51.9	3.69E-07
11312	20.50	7.48E-07	11574	-27.9	3.00E-04	11858	9.3	7.06E-03	12131	-23.2	1.98E-04
11314	-16.90	5.50E-06	11581	-11.9	1.17E-03	11862	33.8	2.26E-07	12132	10.5	4.61E-03
11315	19.70	1.98E-04	11582	10.2	8.44E-04	11863	-21.1	9.10E-10	12137	14.5	4.95E-04
11316	-23.90	4.95E-08	11591	16.9	6.63E-06	11864	-14.4	1.11E-04	12151	-18.5	1.23E-03
11321	-31.10	7.11E-14	11593	15.5	9.99E-04	11866	-19.1	4.70E-07	12154	-24.4	3.39E-11
11323	-21.80	3.06E-05	11594	27.7	1.18E-13	11873	20.2	5.07E-07	12166	-32.2	3.21E-09
11337	22.30	2.85E-10	11600	-26.4	6.34E-13	11875	-44.9	1.36E-10	12168	16.9	7.77E-05
11340	42.30	3.78E-30	11601	-26.5	2.49E-14	11879	-10.6	5.25E-03	12170	-29.3	2.84E-09
11341	27.00	3.25E-04	11602	13.4	3.06E-03	11888	-47.6	3.69E-12	12173	-10.8	8.48E-03
11343	11.20	3.63E-03	11603	20.0	1.94E-05	11890	-25.2	1.51E-12	12174	-45.6	1.34E-40
11344	22.20	1.07E-09	11605	-36.6	2.47E-23	11894	11.7	2.53E-03	12175	12.9	5.66E-04
11348	-24.90	3.32E-05	11607	32.1	1.45E-14	11895	30.7	7.83E-06	12186	28.3	4.69E-14
11352	17.40	6.14E-05	11613	10.0	7.17E-03	11896	-37.7	1.77E-22	12187	-18.3	1.23E-06
11355	-37.30	6.09E-14	11618	20.4	3.28E-07	11897	17.3	1.30E-05	12190	-28.6	2.26E-14
11356	-18.30	1.93E-04	11619	24.2	4.06E-11	11898	-36.8	3.95E-22	12194	-29.1	1.43E-06
14668	-19.1	6.47E-04	15309	23.9	1.94E-11	12658	-10.6	9.00E-03	12200	27.1	2.28E-10
14672	18.9	3.93E-08	15321	16.2	1.37E-03	12662	18.2	1.90E-04	12207	-24.6	3.27E-05
14674	11.7	4.20E-03	15328	-26.3	5.68E-03	12666	-16.4	1.02E-03	12208	10.1	4.56E-03
14677	-10.7	9.08E-03	15329	38.2	4.59E-12	12667	25.0	1.05E-04	12210	16.2	9.32E-05
14688	23.4	3.29E-07	15331	13.0	2.65E-03	12668	-18.8	1.85E-05	12214	16.2	2.96E-04
14694	-18.4	4.05E-04	15333	11.2	1.71E-03	12673	-36.6	4.20E-22	12215	-25.2	3.03E-04
14695	-28.3	7.51E-12	15337	17.9	4.76E-05	12674	25.3	6.16E-12	12219	-13.7	2.58E-04
14698	-10.6	9.51E-03	15339	-35.2	6.09E-08	12675	-22.8	1.39E-07	12228	-19.3	2.36E-03
14699	33.3	2.20E-20	15340	-13.2	5.03E-04	12676	-16.6	1.53E-04	12230	43.1	6.27E-10
14700	-28.3	4.64E-14	15351	12.7	4.71E-03	12677	-18.9	1.06E-04	12232	35.6	5.09E-22
14702	-14.6	5.49E-03	15368	-14.8	1.67E-04	12680	-24.7	6.36E-05	12235	-30.0	4.72E-09
14703	16.7	7.69E-03	15374	14.0	3.38E-03	12681	-13.7	3.96E-03	12240	10.3	8.88E-03
14705	-23	2.61E-08	15375	-30.2	4.16E-13	12684	-12.5	4.00E-03	12241	-43.7	1.53E-11
14708	11.9	7.51E-03	64	6.9	5.00E-02	12685	-21.8	1.98E-06	12242	-25.2	1.37E-12
14709	-25.5	1.27E-04	113	9.1	5.00E-02	12687	24.0	3.99E-05	12245	-17.2	6.96E-06
14710	-10.4	5.42E-03	254	-4.5	5.00E-02	12688	-17.3	2.90E-04	12249	18.7	6.03E-07
14712	-14.9	1.39E-03	279	-4.2	5.00E-02	12690	14.8	2.80E-03	12250	-20.4	5.12E-07
14716	17.9	2.88E-06	616	-5.1	5.00E-02	12691	10.9	4.50E-03	12254	-17.1	4.51E-03
14717	12.3	6.27E-03	662	5.2	5.00E-02	12693	16.0	1.44E-05	12260	-19.3	1.45E-03
14722	23.4	1.07E-10	684	-6.7	5.00E-02	12701	10.7	7.75E-03	12261	-14.8	2.11E-04
14724	14.2	1.46E-03	698	-4.6	5.00E-02	12702	-29.7	8.31E-03	12275	13.8	4.90E-04
14727	35.8	4.10E-17	819	-19.1	5.00E-02	12705	-19.1	8.72E-07	12280	13.1	2.80E-04
14734	-25.9	7.05E-10	1259	9.4	5.00E-02	12706	27.6	4.53E-14	12284	10.4	4.82E-03
14736	-32.1	1.83E-05	1786	-9.0	5.00E-02	12716	19.7	1.72E-06	12287	-23.6	1.19E-04
14738	-27.6	3.23E-04	1818	4.6	5.00E-02	12718	-22.3	2.38E-04	12288	33.4	1.08E-17
14739	14	1.21E-04	2895	7.6	5.00E-02	12720	13.9	7.13E-04	12291	33.9	4.52E-23
14773	-16.9	7.32E-05	3090	17.1	5.00E-02	12725	-37.2	5.25E-21	12292	21.8	1.48E-09
14777	-16	3.33E-05	3422	-11.3	5.00E-02	12732	17.1	4.74E-06	12293	-36.9	2.88E-10
14781	-29.9	2.14E-06	3474	3.2	5.00E-02	12746	18.7	1.48E-07	12294	-29.0	1.58E-06

14783	28.7	2.15E-16	3920	-5.0	5.00E-02	12747	-28.7	6.69E-09	12295	-21.4	6.18E-06
14790	-23.5	3.18E-05	3923	-6.8	5.00E-02	12756	-26.3	6.21E-09	12296	17.9	3.66E-06
14791	19.8	6.03E-07	4124	-8.6	5.00E-02	12760	-13.2	3.48E-04	12304	-32.0	5.12E-18
14800	-20.1	2.17E-07	4665	4.2	5.00E-02	12781	-21.2	1.66E-05	12305	-10.2	8.59E-03
14806	-31.6	8.04E-06	4749	4.9	5.00E-02	12786	24.8	7.52E-10	12308	13.2	1.13E-03
14807	-29.2	3.33E-06	4889	-6.5	5.00E-02	12788	-21.3	1.40E-03	12310	36.0	4.59E-08
14808	20.3	2.91E-08	5364	11.7	5.00E-02	12795	25.1	5.73E-12	12322	15.2	2.45E-06
14817	-35.6	9.27E-10	5382	4.0	5.00E-02	12798	-15.9	1.03E-05	12327	-31.5	1.63E-14
14818	-12.4	1.47E-03	6048	5.7	5.00E-02	12799	31.5	4.32E-15	12329	13.3	4.23E-03
14820	13.5	1.62E-03	6115	6.3	5.00E-02	12804	-56.5	6.58E-07	12330	12.2	1.78E-03
14828	16.1	1.29E-05	6215	-5.4	5.00E-02	12821	-16.9	6.90E-03	12334	-16.4	3.96E-05
14839	-33.1	2.39E-19	6855	-22.7	5.00E-02	12826	13.1	5.28E-03	12336	36.7	1.14E-24
14841	-19.8	1.34E-05	7347	-10.0	5.00E-02	12827	-22.4	6.74E-04	12343	-38.6	6.47E-08
14844	24.3	3.24E-04	7685	4.3	5.00E-02	12828	-17.1	1.76E-05	12344	21.2	3.57E-08
14860	12.1	9.45E-04	7890	4.1	5.00E-02	12833	-14.8	1.84E-03	12356	-24.5	6.64E-09
14866	15.4	2.38E-04	8527	18.0	5.00E-02	12837	11.8	3.38E-03	12358	-33.8	6.00E-20
14872	-34.2	2.00E-04	8571	3.1	5.00E-02	12840	-30.5	1.19E-06	12365	-23.1	5.62E-09
14873	-15.8	3.63E-05	10473	8.4	5.00E-02	12846	10.5	8.48E-03	12368	31.9	2.36E-21
14876	18	1.23E-03	10914	-21.2	5.00E-02	12847	-39.3	3.54E-10	12371	15.6	1.84E-04
14883	33.5	8.63E-05	11750	5.0	5.00E-02	12850	26.7	2.46E-14	12376	16.3	4.33E-05
14884	-13.8	2.57E-04	11832	18.7	5.00E-02	12852	10.6	5.55E-03	12381	-18.8	1.93E-04
14886	20.7	6.54E-09	12870	14.7	5.00E-02	12856	20.4	1.67E-07	12391	-23.9	8.06E-05
14891	-28.6	1.16E-08	13101	-20.1	5.00E-02	12859	-16.7	1.31E-05	12393	28.4	5.32E-15
14893	-27.3	1.16E-06	13257	-9.0	5.00E-02	12865	50.3	1.11E-07	12406	-14.0	2.57E-03
14899	22	2.67E-07	13285	-60.7	5.00E-02	12880	16.0	1.13E-04	12409	24.4	1.46E-11
14904	26.2	1.23E-12	13322	-35.3	5.00E-02	12881	24.3	5.33E-11	12411	32.2	5.47E-08
14907	19.3	7.74E-03	13325	-16.4	5.00E-02	12882	-18.5	2.70E-04	12412	-11.3	2.38E-03
14915	27.2	2.18E-13	13391	-4.1	5.00E-02	12885	28.0	1.09E-13	12415	23.1	3.19E-04
14920	-20.3	9.06E-03	13424	9.0	5.00E-02	12886	-20.0	4.79E-05	12423	-21.6	1.23E-07
14921	-20.7	2.49E-05	13776	-18.8	5.00E-02	12887	41.3	4.06E-23	12433	-13.8	1.18E-04
14925	29.7	1.21E-16	13996	17.2	5.00E-02	12888	-24.0	1.08E-08	12443	19.6	6.18E-07
14932	-18.3	7.60E-04	14001	-40.5	5.00E-02	12889	44.2	5.43E-39	12444	-34.0	2.20E-07
14934	15.6	1.03E-03	14020	-5.1	5.00E-02	12891	10.6	6.44E-03	12446	21.3	1.17E-03
14937	30.4	4.39E-18	14393	-4.2	5.00E-02	12893	-32.5	1.60E-16	12458	12.3	9.29E-04
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14948	-16.6	1.33E-05	14855	-5.0	5.00E-02	12902	-25.7	4.01E-12	12462	25.7	3.18E-13
14957	20.4	1.53E-07	14951	3.1	5.00E-02	12905	-29.5	1.74E-12	12465	-54.1	9.98E-16
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14972	25.4	1.50E-12	15154	24.9	5.00E-02	12910	10.9	6.52E-03	12471	-13.5	2.80E-03
14973	22.3	6.88E-06	15161	10.5	5.00E-02	12913	16.0	1.51E-04	12477	-37.3	6.15E-14
14974	-28.5	8.22E-10	15280	17.1	5.00E-02	12917	17.4	3.13E-06	12483	12.0	3.96E-03
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14979	19.4	9.99E-05	13798	-27.5	2.37E-11	12927	-32.6	6.33E-19	12489	-23.3	1.31E-05
14989	-53	2.23E-17	13805	19.2	3.24E-07	12929	-23.0	9.38E-07	12490	29.4	5.01E-04

14990	-28.2	3.31E-06	13813	-14.7	1.13E-04	12933	-30.9	7.05E-09	12491	11.9	1.32E-03
14999	-29.9	3.95E-03	13814	-38.9	2.54E-11	12938	-38.7	5.97E-08	12493	-24.1	9.21E-11
15001	-29.8	2.84E-08	13819	12.0	1.12E-03	12940	30.3	2.00E-15	12496	21.9	1.57E-06
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15008	-24.1	9.63E-06	13837	18.6	4.77E-05	12946	-20.2	1.60E-03	12499	21.2	1.64E-08
15012	-51.6	3.52E-07	13838	30.9	1.16E-15	12948	-21.0	3.11E-04	12506	25.9	1.97E-06
15026	-19.1	4.69E-07	13839	-32.3	5.55E-17	12952	31.3	1.15E-17	12509	-38.7	3.27E-13
15042	-14.4	9.03E-03	13840	-17.0	4.22E-04	12962	33.3	4.19E-06	12510	-29.7	1.14E-10
15043	19.5	5.48E-07	13852	10.9	2.05E-03	12963	-22.8	1.28E-09	12518	9.4	9.31E-03
15047	-25.2	1.20E-09	13857	21.4	1.03E-08	12969	9.5	5.33E-04	12519	-20.8	2.67E-07
15048	-11.5	5.77E-03	13860	-31.0	3.90E-10	12975	21.0	1.82E-07	12521	37.0	9.35E-24
15060	-29.8	5.77E-14	13861	12.7	5.88E-03	12977	34.2	3.84E-12	12522	-14.1	2.17E-04
15062	-60.5	7.74E-12	13865	-49.2	1.35E-04	12993	25.6	1.14E-12	12524	32.6	1.27E-16
15078	-16.5	2.04E-06	13871	7.6	5.11E-03	12994	-21.4	1.28E-08	12529	17.3	4.73E-06
15092	14.6	8.78E-05	13873	-11.4	1.12E-03	12996	12.7	4.46E-04	12534	-19.9	6.03E-05
15104	18.6	2.14E-06	13878	-16.1	7.84E-04	12997	-19.5	3.22E-04	12535	22.6	1.08E-03
15110	-20.1	1.09E-06	13882	27.6	3.62E-04	12998	20.4	2.72E-07	12536	-25.9	8.72E-13
15113	-30.9	3.26E-07	13885	14.8	6.68E-04	13000	-27.1	5.02E-13	12540	24.1	1.39E-04
15114	-25.1	1.09E-08	13891	-33.5	3.12E-08	13001	-17.2	3.24E-05	12544	34.5	1.88E-14
15128	25.1	1.62E-11	13898	23.1	1.02E-08	13003	-32.8	1.39E-11	12546	23.0	3.55E-10
15131	-19.4	2.75E-07	13899	-20.8	1.79E-05	13008	21.7	1.49E-03	12547	-18.3	1.91E-06
15132	-33.6	2.58E-08	13903	-17.7	5.85E-05	13009	-32.4	8.56E-16	12549	22.2	7.61E-06
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15147	-16.8	6.54E-06	13913	10.9	4.39E-03	13018	-14.6	1.35E-03	12557	-34.8	2.44E-15
15148	-11.9	4.17E-03	13914	-35.5	1.92E-05	13024	43.8	8.72E-10	12561	-24.3	8.56E-03
15149	-19.6	1.84E-03	13916	-37.4	5.89E-09	13025	15.5	7.16E-04	12563	-11.7	2.81E-03
15150	27.6	5.78E-11	13917	-25.5	5.47E-11	13038	25.5	9.28E-05	12566	-11.2	7.64E-03
15164	26.6	4.66E-13	13920	-30.0	1.38E-05	13040	-17.9	1.47E-03	12572	11.1	2.56E-03
15168	-17	9.01E-05	13923	-17.8	1.64E-03	13043	31.3	9.65E-18	12577	-19.9	1.12E-07
15172	12.8	4.34E-04	13927	23.0	9.97E-08	13051	27.8	1.50E-15	12584	-18.0	1.40E-04
15175	-22.4	6.77E-03	13929	-14.1	8.21E-04	13054	-14.1	9.01E-04	12588	-17.0	8.80E-03
15184	-29.6	8.32E-14	13934	-17.5	5.33E-06	13059	20.8	2.34E-07	12590	-54.3	8.92E-16
15187	-29.8	2.25E-06	13939	-15.4	5.67E-05	13060	16.8	2.10E-05	12591	-24.4	1.13E-09
15191	-16.1	5.51E-05	13949	-21.3	4.46E-05	13063	-29.7	3.39E-08	12592	11.9	6.19E-03
15192	-33.1	2.38E-08	13955	18.2	2.12E-05	13065	-30.7	2.60E-14	12594	21.2	4.98E-06
15204	-23.8	3.78E-08	13960	-28.8	8.08E-05	13072	-30.9	2.92E-04	12597	-19.5	4.85E-07
15209	-13.9	1.56E-04	13963	-11.8	2.63E-03	13075	31.5	8.86E-18	12598	-35.5	5.48E-16
15211	-38	6.28E-17	13971	19.1	3.65E-06	13086	-53.9	1.58E-08	12602	-14.1	2.50E-04
15239	24.7	3.53E-09	13973	19.2	8.01E-05	13089	-26.4	1.03E-05	12605	-19.0	1.41E-07
15243	-41.7	2.96E-15	13984	-33.8	6.65E-20	13094	-11.5	4.84E-03	12610	-46.4	1.54E-08
15244	-38.1	4.85E-10	13985	11.8	1.94E-03	13103	32.4	3.10E-17	12613	-18.4	3.10E-05
15245	-16.5	1.34E-05	13998	26.5	1.69E-09	13105	18.1	2.12E-04	12614	-21.1	6.35E-06
15248	-34.6	1.08E-09	14010	-16.0	8.42E-06	13111	26.0	1.70E-13	12620	11.7	3.99E-03
15250	17.9	1.08E-04	14014	-13.4	8.90E-05	13116	-23.7	1.64E-07	12623	-21.8	1.20E-08
15252	22.3	6.68E-06	14015	-25.4	3.54E-10	13122	-21.3	3.62E-05	12626	-16.5	7.20E-05

15260	-42	5.87E-22	14016	16.7	4.77E-05	13124	-16.6	8.75E-10	12627	-31.1	7.31E-05
15277	-16.2	2.55E-05	14019	34.6	1.18E-24	13126	-26.8	1.01E-10	12630	20.6	3.53E-05
15281	-13.1	5.75E-04	14030	14.7	1.17E-03	13128	-44.1	6.74E-09	12636	-21.5	4.91E-06
15283	13.8	9.68E-04	14031	-27.6	9.84E-13	13132	11.7	1.61E-03	12644	-32.0	2.57E-15
15289	-22.3	3.20E-08	14033	-12.2	6.53E-03	13139	26.8	5.28E-11	12649	-31.5	2.39E-06
15291	10.6	6.91E-03	14038	-19.0	5.68E-07	13140	-18.4	4.21E-07	12651	-27.0	6.70E-05
15293	-17.2	2.20E-05	14050	12.5	7.90E-04	13142	-40.6	4.55E-13	12652	-32.9	5.92E-05
15302	16	2.44E-04	14052	-29.2	1.34E-14	13143	26.1	2.79E-10	12656	-45.7	1.75E-26
15307	-10.3	2.64E-03	14057	-15.2	2.42E-05	13149	20.8	2.15E-07	12657	26.9	7.69E-10
14061	-11.7	6.37E-03	14334	-24.2	2.17E-10	14631	-29.9	1.78E-17	14424	-35.6	8.35E-11
14071	-32.2	2.58E-17	14344	20.5	2.78E-07	14636	19.5	4.14E-04	14426	-16.9	2.58E-05
14079	16	2.48E-05	14355	-17.9	1.80E-04	14649	29.7	8.97E-16	14430	11.4	2.99E-03
14081	-22	2.84E-05	14365	-11.8	1.37E-03	14651	13.4	3.81E-04	14434	-11.2	8.60E-04
14084	18.5	1.20E-04	14369	33.9	3.74E-07	14658	19.3	4.91E-09	14436	12.4	1.19E-03
14086	-27.3	2.42E-14	14371	13.4	9.70E-03	14659	19.9	4.44E-08	14441	11.9	1.35E-03
14087	-22.1	1.92E-03	14377	34.5	9.81E-19	14663	24.6	6.46E-08	14448	-32.7	2.44E-12
14090	-23.7	3.41E-05	14379	-30.5	1.15E-06	14665	-36.3	2.21E-06	14454	28.6	1.01E-08
14093	12.4	3.25E-03	14381	-51.0	1.08E-21	14504	-36.9	2.58E-08	14458	-17.0	5.76E-05
14101	31.6	1.26E-10	14389	-11.1	2.89E-03	14523	29.4	2.38E-17	14460	23.8	2.76E-10
14104	-13.9	6.56E-04	14390	21.8	2.71E-07	14524	-51.1	7.15E-22	14469	-14.6	9.84E-04
14106	20.1	1.54E-09	14391	-16.9	7.50E-06	14533	-14.8	7.19E-04	14474	-14.7	5.36E-03
14111	-33.9	3.63E-16	14396	17.4	5.16E-03	14535	-16.9	3.75E-05	14476	33.1	1.20E-12
14113	36.9	2.83E-24	14399	11.4	2.84E-03	14542	-22.8	7.33E-03	14478	-19.2	3.01E-05
14125	-15.2	7.19E-04	14405	20.9	5.08E-06	14547	21.4	3.66E-03	14479	-15.5	1.14E-03
14127	-14.6	5.30E-03	14406	-45.1	7.10E-14	14555	14.7	1.45E-04	14484	22.2	4.94E-10
14130	24.6	2.75E-06	14411	-25.5	1.00E-12	14560	-36.9	5.38E-14	14491	-25.2	4.14E-10
14131	-15.8	1.36E-05	14414	13.6	1.16E-07	14568	-21.8	3.60E-04	14494	-29.1	1.87E-09
14144	10.3	6.26E-03	14415	-14.7	6.27E-05	14571	13.7	4.36E-03	14498	-22.1	1.17E-04
14151	-18.3	3.93E-06	14422	-11.3	3.27E-03	14582	30.6	1.17E-15	14502	-23.8	9.82E-03
14153	-20.8	1.72E-05	5071	16.4	4.90E-06	5177	-13.6	1.73E-04	5279	-24.3	2.78E-11
14164	-16.8	3.10E-05	5074	-31.4	3.93E-05	5178	25.8	6.00E-06	5280	29.6	1.31E-07
14170	25.9	2.26E-13	5078	-15.7	3.91E-07	5179	-23.4	7.23E-04	5285	-40.8	7.10E-24
14178	-25.7	4.91E-18	5079	33.7	1.01E-18	5185	30.5	1.56E-11	5291	41.1	2.67E-07
14182	13.2	4.01E-04	5083	19.5	1.95E-06	5199	-16.3	6.83E-04	5293	-29.1	1.72E-06
14189	28.7	8.82E-09	5086	23.3	1.30E-11	5201	-16.1	3.11E-05	5294	29.9	2.37E-06
14191	-28.7	7.55E-11	5088	9.6	2.13E-04	5204	-14.7	1.25E-04	5295	-24.7	5.67E-05
14194	-40.9	4.70E-13	5093	-16.6	1.28E-05	5205	-17.4	7.51E-04	5300	20.5	1.84E-03
14195	-31.2	2.38E-11	5094	18.1	2.98E-03	5207	29.6	3.73E-10	5302	-37.4	6.10E-26
14197	-31.2	7.10E-08	5095	-15.8	2.85E-03	5211	19.5	7.36E-05	5308	-32.5	3.27E-18
14206	23	1.16E-05	5098	12.2	2.09E-03	5212	-10.8	5.08E-03	5310	-24.0	5.23E-04
14213	12.7	6.70E-04	5106	-22.6	6.14E-04	5221	-14.3	6.02E-04	5316	24.9	1.36E-08
14219	-16	8.10E-05	5107	-22.2	3.39E-04	5223	11.2	2.45E-03	5317	27.0	1.87E-12
14222	-37.4	9.52E-07	5108	17.2	2.10E-04	5229	-16.3	4.07E-03	5320	14.2	8.91E-04
14227	-13.5	5.40E-04	5111	-29.1	7.02E-03	5230	16.5	2.88E-06	5321	20.5	2.05E-07
14237	-27.7	1.19E-07	5114	18.4	3.67E-04	5231	24.0	9.05E-09	5322	19.5	7.99E-03
14242	-14.4	1.57E-04	5117	40.9	8.39E-08	5232	25.8	1.59E-06	5323	-21.1	1.08E-08

14244	-35.5	1.44E-25	5122	-37.6	3.22E-10	5235	-21.9	2.40E-06	5326	-15.8	3.03E-05
14246	-30	6.88E-15	5124	-36.7	1.58E-21	5237	21.8	3.33E-09	5329	-35.0	3.61E-07
14253	24.3	1.44E-05	5125	25.5	3.01E-12	5239	-22.3	5.86E-08	5330	10.8	8.83E-03
14259	-29.9	4.00E-06	5132	9.7	9.46E-03	5241	-21.0	2.21E-08	5333	-11.8	6.24E-03
14260	-17.1	9.45E-06	5133	-57.2	5.74E-19	5242	10.0	1.87E-03	5334	-11.3	8.00E-03
14265	-18.6	1.14E-06	5134	-22.6	8.26E-10	5247	17.9	1.99E-06	5335	-15.7	2.73E-05
14269	24.6	6.50E-07	5138	-18.9	1.01E-06	5251	-14.2	1.81E-07	5336	12.8	6.37E-04
14273	-16.2	3.34E-05	5140	15.8	1.44E-03	5252	-14.7	6.52E-08	5340	-47.2	1.43E-07
14278	10.2	5.05E-03	5148	-36.4	5.22E-17	5253	14.3	1.11E-04	5344	30.9	3.88E-19
14281	18	6.46E-05	5155	-34.9	9.45E-05	5255	10.6	3.70E-03	5345	45.0	7.33E-40
14306	16.4	1.28E-04	5159	9.4	6.50E-03	5258	40.2	2.99E-07	5348	28.2	9.07E-09
14307	19.5	1.27E-07	5163	-13.5	6.27E-04	5261	-29.6	4.69E-15	5350	19.3	1.40E-05
14309	30.9	2.46E-17	5164	-26.8	4.10E-13	5262	18.4	3.33E-03	5353	30.9	2.69E-18
14310	-15.3	6.98E-05	5165	12.5	6.64E-03	5267	-26.2	3.43E-03	5355	18.5	4.68E-07
14311	-15.7	1.31E-05	5168	-10.6	6.22E-03	5272	13.3	4.57E-04	5360	18.7	5.27E-04
14313	11.5	1.71E-03	5170	13.4	2.76E-04	5273	-20.3	1.07E-07	5361	-16.6	9.67E-04
14329	-13.7	2.80E-03	5172	-31.9	5.90E-19	5274	-20.3	1.01E-07	5363	-14.4	7.59E-04
14330	-32.5	4.20E-19	5175	-14.6	4.46E-03	5275	-26.8	1.99E-12	5367	-18.9	2.03E-07
14333	13	3.57E-04	5176	-46.6	5.95E-07	5276	-25.5	8.06E-03	5368	14.1	6.91E-04
5369	-20.4	1.81E-05	5427	-12.7	2.45E-03	5551	21.5	1.09E-06	5684	25.0	7.03E-04
5377	22.3	1.15E-05	5429	33.2	7.60E-16	5552	-14.4	1.09E-04	5687	12.9	4.36E-03
5379	-34.5	1.10E-19	5430	-32.8	1.58E-04	5553	14.3	3.52E-03	5688	-26.5	1.73E-06
5381	14.0	1.92E-04	5431	-27.4	6.70E-04	5554	-21.6	2.98E-04	5691	27.3	3.36E-10
5384	15.0	6.56E-05	5432	42.0	1.43E-34	5555	-19.4	1.21E-04	5695	23.5	9.63E-05
5387	-17.6	3.33E-05	5435	11.4	1.90E-03	5557	-17.3	5.01E-06	5701	27.5	1.15E-06
5389	-20.4	9.62E-03	5439	-28.2	3.63E-05	5558	-17.2	5.33E-06	5703	35.3	2.13E-23
5390	7.0	9.79E-03	5443	15.5	9.14E-03	5563	-17.5	1.12E-07	5704	29.4	3.06E-17
5397	16.4	2.36E-05	5446	26.3	5.17E-13	5570	25.5	3.65E-15	5705	20.3	1.20E-08
5399	-33.3	4.11E-15	5448	36.8	2.92E-08	5571	30.5	5.43E-05	5707	-18.6	7.50E-06
5402	-13.4	4.64E-07	5451	-19.5	6.93E-06	5572	14.1	1.23E-04	5708	-40.6	5.60E-10
5404	-17.2	2.05E-07	5453	-23.0	1.09E-04	5574	-18.3	1.76E-06	5711	-22.4	3.23E-08
5406	-11.1	4.49E-03	5456	-19.0	9.78E-03	5576	21.1	1.15E-04	5712	-19.9	4.00E-05
5412	-16.9	3.41E-05	5459	10.4	7.56E-03	5577	17.9	9.73E-03	5713	28.8	1.26E-14
5413	22.1	9.95E-09	5461	-22.8	2.03E-05	5578	24.5	1.61E-08	5715	-35.7	5.17E-08
5414	-17.5	3.25E-06	5463	-20.1	2.06E-08	5580	-34.1	5.07E-21	5737	-29.3	1.08E-09
5417	25.4	5.28E-07	5465	12.5	1.26E-03	5583	-34.9	5.85E-05	5739	11.8	4.97E-05
5419	16.6	4.72E-06	5466	-11.8	1.92E-03	5588	21.6	9.76E-07	5741	-32.9	2.16E-21
5426	-12.4	3.13E-03	5470	-32.0	5.51E-16	5590	21.6	5.34E-09	5742	-33.3	5.64E-22
5821	-28.9	8.00E-15	5473	-20.2	1.68E-07	5592	21.4	1.45E-08	5744	14.1	9.80E-05
5823	-53.8	7.05E-13	5480	22.4	1.34E-07	5593	-23.2	1.83E-06	5746	11.3	1.86E-03
5824	-55.0	2.90E-13	5482	28.2	2.98E-03	5596	-20.4	3.79E-07	5748	-31.5	1.72E-04
5825	-39.0	2.08E-14	5483	-15.2	9.41E-05	5597	-20.2	5.14E-07	5753	-38.3	1.28E-08
5828	-24.4	1.64E-06	5489	-23.2	8.88E-10	5601	-16.1	3.33E-05	5754	-30.5	1.48E-18
5830	-32.1	3.09E-04	5491	28.3	8.34E-14	5602	-18.2	8.06E-07	5755	-26.0	3.01E-05
5835	11.3	6.20E-03	5493	-11.0	3.32E-03	5605	-42.4	1.44E-11	5756	44.4	9.19E-22

5836	-21.6	5.37E-03	5494	-12.9	5.61E-04	5606	-39.1	7.16E-10	5758	18.4	2.82E-03
5838	-44.9	4.19E-37	5495	19.7	1.22E-04	5608	-43.8	1.28E-34	5761	16.6	6.39E-06
5840	19.5	6.32E-08	5499	21.7	6.13E-08	5614	-29.1	1.86E-07	5762	16.9	3.92E-06
5841	11.3	3.08E-03	5501	35.2	1.02E-22	5616	13.4	3.11E-03	5763	37.0	1.07E-07
5846	21.3	1.69E-07	5502	35.1	1.34E-22	5619	25.0	2.11E-10	5768	-21.1	1.85E-06
5852	-31.7	4.10E-07	5503	-22.6	4.29E-04	5623	29.3	2.46E-11	5772	36.7	1.20E-04
5856	30.2	2.61E-17	5505	-54.6	6.72E-13	5624	-12.1	5.58E-03	5774	-35.5	1.66E-04
5865	17.2	1.83E-03	5509	30.1	1.55E-10	5630	24.9	3.33E-07	5777	37.5	8.12E-08
5866	-18.2	5.55E-04	5512	-24.3	5.78E-07	5637	23.7	6.80E-07	5781	16.7	3.21E-04
5868	27.8	5.19E-14	5513	-15.3	1.50E-04	5638	32.9	9.34E-13	5784	-17.3	1.35E-04
5870	11.0	1.74E-03	5514	21.8	5.21E-03	5639	-13.9	2.10E-04	5785	-60.6	1.14E-20
5871	13.6	2.59E-03	5520	20.3	2.83E-07	5647	-12.8	2.18E-03	5787	11.5	3.66E-03
5872	16.4	5.01E-04	5522	-30.4	1.84E-15	5648	-16.5	7.55E-04	5788	-38.3	3.20E-15
5874	14.0	9.15E-05	5523	-32.7	1.91E-08	5651	-26.3	2.02E-03	5791	-20.7	9.76E-09
5875	-39.3	9.09E-22	5526	15.5	1.32E-03	5658	36.6	1.30E-09	5796	-14.9	7.49E-05
5876	-18.4	1.45E-05	5527	22.2	2.84E-10	5660	16.8	4.83E-06	5798	-28.1	8.36E-11
5877	30.8	1.25E-15	5529	-22.7	2.87E-10	5664	-29.7	8.56E-05	5800	-23.7	2.06E-11
5883	-19.8	1.09E-04	5535	19.0	3.79E-05	5667	16.2	4.09E-04	5803	-32.5	6.14E-07
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5887	-52.4	3.73E-16	5539	-14.3	1.95E-03	5670	16.2	4.97E-05	5806	-22.0	1.85E-04
5890	-27.8	1.61E-11	5540	13.9	3.17E-03	5674	-46.3	9.06E-25	5808	20.2	1.93E-03
5896	14.1	1.46E-04	5546	-15.6	4.45E-05	5677	28.6	9.79E-15	5809	-26.3	6.41E-04
5897	-27.3	1.87E-13	6046	27.2	3.99E-07	5679	-15.0	3.68E-04	5815	-21.4	8.77E-05
5900	-41.8	3.48E-08	6049	31.6	2.10E-05	5682	16.3	1.03E-05	5816	-54.8	1.88E-11
5901	-22.4	1.20E-08	6050	-11.7	2.70E-05	6201	-11.1	3.49E-03	5819	-24.7	7.68E-08
5902	20.2	8.33E-08	6052	-22.3	6.34E-08	6204	-50.3	7.57E-19	6417	24.6	3.78E-10
5903	33.8	7.71E-07	6057	-14.9	2.10E-03	6214	34.0	1.10E-18	6419	-20.2	5.23E-04
5904	14.4	1.79E-05	6061	-33.2	3.17E-08	6219	22.8	3.88E-08	6420	-22.7	1.78E-10
5906	30.4	4.22E-15	6067	14.0	1.83E-04	6221	24.8	1.78E-07	6431	-50.9	5.69E-06
5908	17.7	2.22E-03	6068	26.1	3.62E-13	6225	16.0	2.37E-05	6434	23.8	1.93E-10
5910	-32.3	1.65E-08	6069	-14.4	1.37E-07	6229	-20.7	1.23E-12	6436	27.0	2.32E-13
5914	32.5	2.68E-15	6070	-18.7	1.09E-04	6230	28.8	7.63E-16	6438	19.0	4.47E-09
5916	15.3	8.97E-04	6071	14.0	1.56E-04	6232	-12.0	3.14E-04	6440	13.7	1.68E-04
5917	16.0	5.08E-04	6074	-11.1	1.35E-03	6233	10.8	6.68E-03	6441	26.8	2.57E-03
5918	-15.8	4.29E-03	6075	-12.6	1.64E-06	6235	-34.3	3.21E-05	6451	-15.7	5.27E-05
5921	-27.3	7.88E-08	6081	16.2	1.22E-04	6240	-12.2	3.93E-03	6452	-15.6	3.73E-04
5922	-27.0	3.81E-07	6086	-39.1	1.17E-17	6241	13.4	2.72E-05	6459	17.2	1.71E-06
5923	29.4	1.61E-13	6087	-21.9	1.40E-08	6242	-16.3	5.49E-03	6461	-32.8	3.44E-13
5924	-20.0	4.01E-07	6088	-21.9	1.48E-08	6245	47.2	9.96E-36	6463	-16.0	1.47E-05
5925	-18.1	3.37E-05	6089	-22.7	2.95E-09	6246	-16.9	2.63E-04	6464	-16.0	4.69E-05
5927	18.1	9.96E-07	6092	-19.7	8.11E-05	6248	-32.8	4.26E-06	6467	-10.4	5.17E-03
5929	-14.5	1.58E-03	6093	-17.6	2.98E-04	6249	38.0	6.59E-26	6471	21.6	1.89E-04
5930	-33.8	8.70E-16	6095	29.6	1.52E-03	6250	-37.9	1.01E-24	6473	-16.4	1.21E-03
5931	20.9	9.54E-06	6100	18.8	3.92E-04	6253	-22.6	4.76E-10	6476	-34.3	5.79E-06
5942	12.5	5.81E-03	6101	18.9	3.83E-04	6257	-34.6	2.32E-06	6477	32.4	5.60E-06

5945	12.8	4.17E-04	6102	-26.0	1.22E-11	6258	-42.5	9.42E-19	6479	-10.8	3.82E-03
5948	-17.4	4.88E-08	6103	-25.2	7.32E-09	6261	11.3	5.46E-05	6480	-19.5	4.50E-05
5952	-17.9	3.50E-06	6104	-13.4	2.00E-04	6263	-18.9	6.50E-06	6485	-31.6	5.11E-10
5953	-21.1	7.92E-08	6105	32.6	2.22E-18	6264	-16.7	8.79E-03	6487	13.7	2.35E-04
5955	30.7	4.48E-10	6111	-20.7	1.02E-06	6265	-10.6	9.18E-03	6493	-42.8	3.92E-06
5957	-20.9	1.48E-05	6112	-17.2	2.70E-05	6266	-38.9	1.22E-06	6498	-26.2	3.22E-13
5958	13.4	2.12E-03	6117	-29.6	7.46E-15	6267	-46.2	1.35E-14	6505	-23.9	4.39E-10
5966	26.0	6.82E-14	6118	18.7	5.57E-07	6271	-44.8	3.44E-08	6509	-13.4	2.26E-04
5968	-25.0	1.13E-12	6124	17.4	2.56E-05	6272	-19.1	3.39E-07	6515	43.9	5.57E-12
5970	15.2	2.44E-05	6130	-15.9	4.51E-05	6284	19.1	4.40E-06	6521	-11.7	5.41E-03
5971	43.5	2.76E-33	6134	-26.6	3.06E-12	6285	25.8	1.09E-14	6523	-25.2	4.64E-17
5972	23.8	1.55E-10	6135	-22.6	4.32E-04	6286	-28.7	2.24E-06	6530	-13.3	2.17E-04
5973	14.6	6.62E-05	6136	-29.7	1.36E-13	6291	16.6	7.59E-04	6531	16.8	1.91E-04
5979	27.8	6.58E-09	6137	-29.7	1.41E-13	6294	-30.9	5.18E-16	6533	-14.5	4.09E-05
5982	12.1	1.48E-03	6139	-11.5	3.78E-03	6297	24.5	4.85E-09	6535	-19.4	1.85E-08
5986	23.6	2.78E-09	6141	12.6	7.44E-04	6303	34.9	2.31E-22	6540	-32.3	1.39E-16
5989	11.7	9.28E-06	6142	-17.0	1.34E-05	6304	35.4	3.94E-23	6544	22.0	2.55E-10
5990	-13.6	9.13E-04	6143	-24.3	5.45E-10	6305	18.0	3.27E-04	6545	20.2	1.81E-05
5992	-19.1	1.33E-10	6148	-35.3	3.73E-05	6307	-19.4	2.87E-06	6549	-18.9	6.82E-06
5993	-28.3	4.38E-07	6150	-22.6	1.08E-03	6310	41.6	5.42E-34	6550	-12.7	1.23E-04
5994	17.0	1.53E-05	6152	38.5	1.31E-23	6321	28.1	2.14E-10	6551	-43.5	3.55E-09
5995	17.4	9.92E-06	6154	-8.2	1.91E-03	6325	19.1	1.89E-05	6555	25.9	3.30E-12
5996	16.8	2.08E-05	6158	-15.5	1.68E-05	6328	-18.8	3.75E-07	6561	-24.8	4.39E-03
5997	16.6	2.47E-05	6170	16.7	1.92E-03	6329	-11.6	3.78E-03	6563	-10.5	4.03E-03
5998	-25.6	1.53E-12	6172	12.6	7.89E-04	6330	-26.1	5.94E-09	6564	20.2	1.99E-04
6006	-26.1	3.00E-09	6177	12.0	1.46E-03	6332	18.4	8.63E-03	6565	20.1	8.26E-08
6015	-24.1	2.15E-10	6179	-13.0	1.52E-03	6333	18.5	1.33E-06	6566	-30.7	6.07E-08
6016	-20.3	1.03E-07	6181	23.8	3.74E-10	6337	-40.6	9.62E-27	6568	-35.2	5.02E-25
6017	-29.5	1.12E-04	6186	21.7	1.07E-07	6340	-21.9	2.88E-05	6571	-44.9	3.81E-11
6024	-20.3	6.96E-07	6187	14.4	5.70E-04	6345	16.7	7.46E-06	6573	-29.5	1.62E-03
6025	-45.2	1.86E-06	6191	-21.2	7.15E-03	6348	14.9	1.07E-04	6576	34.3	9.04E-06
6031	28.6	1.68E-16	6192	-13.8	2.13E-03	6349	-12.2	1.12E-03	6580	-23.1	9.27E-07
6033	-28.1	4.29E-09	6194	19.5	5.47E-03	6352	-51.2	5.02E-12	6582	24.4	2.33E-10
6035	-11.8	2.44E-03	6195	-23.4	1.71E-09	6358	31.2	4.65E-17	6587	14.3	1.07E-05
6036	-36.1	5.05E-15	6197	18.5	7.71E-05	6359	-24.9	3.30E-07	6600	14.0	9.99E-04
6037	-12.3	2.16E-03	6198	18.3	9.10E-05	6360	-34.9	1.47E-05	6601	-30.1	2.86E-11
6041	-9.4	2.07E-03	6200	17.4	1.83E-04	6365	-16.0	1.62E-05	6606	39.5	7.06E-08
6045	-17.0	3.13E-03	10461	-24.8	1.53E-05	6366	-26.6	1.45E-08	6607	-21.4	3.72E-08
6735	32.2	2.18E-08	10464	14.1	5.31E-03	6372	16.1	6.72E-06	6609	-13.6	2.65E-03
6736	-15.4	2.31E-03	10468	-12.1	2.10E-04	6373	39.3	1.40E-28	6617	24.5	2.20E-04
6741	32.2	4.79E-06	10474	-25.7	2.48E-08	6374	16.9	1.61E-03	6619	-26.0	3.86E-12
6743	-23.7	9.65E-07	10478	18.8	1.52E-03	6375	26.4	2.66E-09	6626	-33.4	1.07E-15
6749	-34.9	1.29E-11	10480	-17.0	5.18E-04	6376	32.2	5.07E-18	6630	-14.9	3.19E-03
6751	-38.3	4.12E-17	10481	17.0	1.23E-04	6377	35.6	3.98E-09	6633	-18.8	4.27E-06
6752	12.3	1.59E-03	10483	22.6	3.22E-03	6379	-12.7	6.67E-03	6635	-16.7	4.19E-03
6754	10.4	5.70E-03	10487	-24.7	1.09E-07	6381	-30.3	2.99E-17	6639	25.4	6.18E-12

6755	15.8	6.54E-05	10493	-20.5	4.42E-03	6394	16.9	1.55E-05	6640	-20.2	3.13E-05
6757	-30.9	4.97E-11	10494	22.3	9.09E-13	6397	-29.8	4.46E-09	6643	23.0	6.70E-11
						171					
6762	-19.2	2.14E-07	10498	-44.0	2.53E-09	6398	-33.8	1.90E-12	6648	-38.9	7.18E-08
6763	28.8	8.11E-11	10503	14.1	4.08E-04	6400	-12.4	1.50E-03	6658	-11.8	1.01E-03
6765	21.7	1.14E-11	10505	22.1	1.06E-09	6402	-22.6	8.06E-05	6659	27.7	7.07E-14
6766	-24.6	2.03E-14	10513	-21.5	3.58E-08	6405	-12.3	1.61E-03	6660	-30.1	3.88E-12
6774	-34.6	4.57E-12	10515	-20.6	1.54E-03	6408	30.9	5.52E-16	6669	20.4	2.20E-06
6776	16.5	1.73E-05	10520	-64.5	2.70E-19	6411	-28.6	5.31E-15	6671	-32.2	8.68E-17
6780	-27.1	3.48E-10	10524	-21.6	2.43E-08	6415	-36.5	1.04E-21	6672	-11.9	4.14E-04
6783	-13.8	4.17E-04	10530	13.6	2.67E-03	6416	26.5	3.22E-12	6676	-41.1	7.87E-19
6784	10.6	5.22E-03	10537	-20.1	1.74E-07	14630	-24.6	4.06E-10	6678	18.0	3.14E-03
6788	24.4	1.85E-04	10538	12.8	6.62E-03	14284	-30.1	2.80E-06	6681	23.9	1.74E-10
6790	-12.5	1.06E-03	10539	13.1	3.99E-04	14295	18.5	2.21E-06	6683	-20.3	3.38E-07
6798	15.2	9.61E-03	10547	-31.7	1.93E-11	14296	-27.9	2.79E-15	6684	18.9	1.81E-04
6799	27.3	3.49E-15	10548	22.0	4.66E-09	14297	-19.0	3.57E-07	6685	-30.4	7.16E-08
6812	23.8	8.06E-07	10550	-15.9	4.20E-05	14298	19.7	2.17E-05	6690	-37.1	6.08E-09
6817	-23.2	8.19E-03	10551	-31.3	1.13E-03	14299	12.2	1.62E-03	6694	-29.2	6.91E-03
6818	-22.1	8.99E-09	10554	-25.1	1.81E-06	14300	-11.8	4.64E-03	6697	23.8	3.75E-11
6819	-46.8	6.08E-11	10555	18.9	2.31E-04	14301	19.0	5.81E-09	6703	-17.9	2.06E-05
6820	-40.0	2.35E-08	10558	-13.6	5.24E-04	13661	-25.2	9.55E-03	6706	-20.8	1.32E-07
6821	-15.3	1.55E-03	10559	9.7	8.83E-03	13663	-17.9	3.02E-05	6709	18.8	4.78E-06
6822	-15.5	1.36E-03	10560	-15.6	5.85E-05	13667	-16.2	1.77E-04	6711	-36.1	4.53E-08
6823	-15.3	1.52E-03	10561	-26.8	8.41E-07	13668	21.4	6.32E-06	6714	-30.9	1.14E-17
6824	-14.9	2.13E-04	10563	-18.6	6.24E-04	13676	36.5	1.07E-07	6716	9.7	8.96E-03
6834	-15.1	5.24E-08	10565	-14.1	7.91E-03	13687	-21.8	3.30E-08	6718	-29.0	6.67E-07
6839	30.1	7.13E-18	10569	17.6	4.22E-06	13700	-16.9	2.69E-05	6722	-24.1	1.42E-08
6842	-22.0	1.07E-03	10570	-15.6	3.84E-05	13707	-57.0	2.51E-12	6724	35.2	2.69E-12
6843	-31.2	5.72E-15	10572	-12.0	6.01E-03	13710	19.4	1.77E-09	6725	-14.2	3.81E-03
6849	-55.8	1.45E-10	10576	-32.7	2.92E-19	13713	-17.6	4.17E-06	6726	-16.7	1.35E-03
6854	-17.2	3.87E-04	10577	-19.9	1.10E-03	13720	-23.9	6.41E-08	6727	42.5	1.31E-13
10419	26.6	5.68E-04	10579	-26.3	2.14E-04	13723	-19.9	3.01E-03	10838	23.9	1.04E-10
10422	27.5	2.23E-06	10582	11.0	2.94E-05	13727	-17.1	1.83E-04	10842	14.5	4.65E-04
10423	29.2	7.88E-12	10584	-18.8	4.45E-06	13734	21.1	2.93E-07	10848	-20.5	5.99E-04
10426	-12.6	8.19E-04	10586	-24.0	4.89E-04	13737	11.5	7.37E-03	10850	-24.7	8.17E-12
10427	-26.3	3.88E-05	10588	11.1	3.67E-03	13741	-15.6	4.65E-05	10865	15.6	4.80E-05
10436	-36.0	5.79E-08	10590	-15.2	2.55E-05	13743	-17.2	8.14E-04	10872	-45.8	2.16E-26
10438	41.0	1.85E-36	10593	20.3	1.35E-07	13755	22.7	9.49E-06	10888	-37.3	3.17E-22
10444	-35.7	9.68E-17	10595	-12.1	2.80E-03	13760	-24.3	6.15E-10	10889	-21.3	6.43E-10
10448	-23.2	1.64E-08	10599	-27.3	5.44E-07	13763	-36.3	2.67E-08	10891	-16.0	2.22E-04
10449	-21.2	3.98E-08	10601	-29.8	2.54E-13	13766	-24.9	8.02E-08	10892	19.8	3.05E-08
10453	-27.9	6.42E-04	10603	-12.9	9.05E-04	13767	-31.1	2.81E-17	10895	-10.7	6.10E-03
10454	21.8	1.87E-09	10604	-41.7	5.99E-20	13772	25.7	1.43E-12	10897	19.2	3.55E-03
10456	-32.4	1.25E-12	10607	10.0	3.56E-03	13783	-13.4	2.79E-04	10900	-15.6	7.55E-05
13381	-25.1	2.53E-05	10608	-19.6	2.65E-06	13784	-25.4	4.05E-03	10908	25.0	5.71E-10
13383	16.0	4.98E-04	10612	-17.5	3.65E-04	13786	27.6	1.89E-05	10911	-20.6	2.61E-08

13385	-22.9	5.25E-03	10613	-31.5	3.53E-11	13788	-20.8	1.84E-05	10913	-15.9	9.44E-06
13396	-10.1	5.11E-03	10618	11.7	1.67E-03	13791	9.4	8.49E-03	10917	-36.9	1.37E-14
13403	-16.9	1.12E-05	10622	-18.2	2.64E-03	13793	-31.2	1.28E-12	10923	-40.4	5.12E-10
13404	-27.3	1.90E-04	10625	18.1	1.30E-05	13795	25.4	6.36E-09	10924	25.7	1.13E-11
13406	-15.6	4.53E-05	10627	-21.3	1.39E-08	14586	-24.7	1.84E-06	10926	-51.8	1.08E-11
13413	41.2	3.36E-08	10629	-14.6	4.90E-04	14596	-18.9	8.87E-03	10928	-19.7	1.47E-03
13420	31.5	1.44E-10	10630	15.4	6.28E-04	14597	-14.4	6.04E-03	10929	20.5	5.88E-04
13432	10.3	7.71E-03	10633	-20.5	2.00E-06	14602	-11.8	4.92E-05	10934	-20.6	2.37E-05
13434	26.7	6.04E-10	10634	29.7	2.10E-09	14603	18.6	4.60E-07	10940	-11.5	1.77E-03
13435	-19.6	1.26E-03	10642	-14.9	2.11E-03	14611	17.8	1.59E-04	10942	23.1	1.49E-07
13447	14.1	5.34E-04	10647	12.0	8.93E-03	14612	-39.2	9.09E-28	10943	-26.3	1.67E-06
13448	-11.8	5.88E-03	10649	28.5	2.45E-15	14616	-34.3	9.34E-09	10947	-21.1	5.22E-05
13455	-24.4	4.50E-13	10660	-25.5	4.64E-05	14625	-23.2	4.37E-07	10948	-13.6	3.68E-04
13457	-26.8	6.81E-11	10666	-33.2	6.10E-10	14628	-15.2	2.38E-06	10950	30.5	2.28E-15
13461	21.5	1.01E-07	10668	-55.0	5.41E-16	14629	18.1	6.63E-05	10954	22.1	1.63E-03
13470	-14.8	1.59E-03	10669	-17.5	1.19E-03	13151	-35.6	9.14E-09	10965	26.9	8.81E-13
13472	-35.7	6.35E-08	10674	-20.0	9.29E-08	13153	-18.6	8.22E-07	10972	21.2	4.03E-03
13473	-20.1	1.09E-03	10677	20.2	3.98E-07	13154	-25.3	1.17E-10	10973	-42.4	2.70E-06
13476	9.7	4.71E-03	10678	-26.4	3.25E-04	13161	-33.2	9.44E-21	10977	-33.5	6.65E-16
13485	16.7	1.26E-04	10681	-14.6	6.88E-05	13171	23.7	3.78E-06	10980	28.5	5.75E-16
13492	47.7	1.19E-10	10682	-21.5	2.38E-03	13178	15.9	1.07E-05	10985	-34.4	1.20E-20
13501	-13.9	2.08E-04	10685	14.6	5.35E-04	13179	13.6	2.02E-03	10991	37.4	4.24E-17
13511	-14.2	7.11E-03	10688	-37.3	8.07E-23	13191	-34.3	1.58E-08	10992	-18.0	2.09E-05
13512	21.5	3.90E-08	10696	-24.6	1.90E-07	13200	20.3	1.07E-05	10995	-12.7	9.24E-03
13517	-31.3	9.62E-09	10711	-28.7	4.42E-15	13201	47.2	6.51E-10	11000	-26.3	2.11E-05
13521	-19.8	3.14E-07	10715	-19.3	1.50E-03	13204	-16.7	5.95E-05	11003	-27.3	3.04E-05
13523	23.6	1.86E-07	10717	-15.2	1.24E-04	13210	29.7	2.91E-15	11007	-23.9	2.43E-07
13526	11.2	2.05E-03	10722	15.4	5.50E-04	13211	-40.0	1.39E-08	11009	-11.9	7.37E-03
13527	-25.5	2.79E-12	10724	-55.0	1.35E-11	13212	28.0	1.09E-12	11012	-29.6	1.75E-15
13529	28.5	3.70E-09	10728	20.0	4.31E-04	13213	-13.9	5.15E-03	11013	-23.8	3.02E-07
13538	-24.4	1.80E-08	10730	-12.0	2.35E-03	13214	20.9	1.95E-08	11015	30.7	5.56E-04
13540	-35.7	1.72E-04	10731	-35.7	5.21E-07	13230	-30.6	8.67E-17	11019	12.5	2.85E-03
13551	19.7	4.09E-04	10733	27.4	1.00E-09	13238	-15.5	1.64E-05	11029	19.1	1.93E-06
13553	10.2	9.22E-03	10734	45.7	6.48E-32	13249	-15.0	4.88E-05	11032	11.2	3.90E-03
13560	-17.0	2.71E-04	10738	-24.4	2.02E-05	13253	11.7	5.34E-03	11040	-14.1	4.39E-04
13565	-12.7	1.75E-03	10741	-25.0	1.08E-06	13255	14.1	2.00E-04	11047	-20.6	1.46E-07
13567	16.3	2.73E-05	10744	-31.4	1.60E-07	13264	-18.7	2.06E-07	11053	-13.4	1.03E-03
13575	46.6	1.52E-07	10752	-22.5	7.92E-10	13269	-22.6	2.98E-03	11060	12.8	9.49E-04
13578	31.3	2.53E-17	10755	13.1	3.06E-03	13276	25.1	1.20E-12	11065	20.9	1.72E-09
13583	-16.7	1.18E-05	10758	-53.7	8.15E-16	13279	-34.9	1.44E-05	11075	21.5	1.09E-03
13587	14.7	3.34E-03	10760	-15.5	4.43E-05	13297	22.6	5.66E-04	11076	-16.9	2.85E-04
13600	28.2	4.03E-07	10763	-45.9	7.97E-10	13302	13.0	2.81E-04	11085	-25.2	1.54E-10
13605	-13.5	5.72E-03	10774	37.6	8.01E-11	13305	-23.0	2.15E-06	11087	20.5	7.95E-09
13608	27.6	1.22E-14	10775	-16.0	9.38E-06	13306	-22.2	3.07E-03	11088	33.5	4.49E-22
13609	18.0	7.10E-06	10778	26.8	5.49E-14	13312	-15.7	3.77E-05	11090	22.0	9.03E-05

13614	-19.8	1.98E-07	10791	-20.8	1.87E-08	13323	-32.3	3.29E-06	11092	14.7	1.10E-03
13618	12.5	7.18E-04	10798	17.9	5.84E-07	13324	21.6	9.61E-09	11095	16.3	6.03E-03
13622	18.7	1.84E-04	10799	-10.5	9.01E-03	13326	14.2	7.23E-03	11096	35.5	2.88E-07
13626	-35.2	3.90E-05	10802	26.5	1.01E-06	13328	37.3	1.17E-18	11097	-36.9	2.24E-21
13629	40.8	3.55E-29	10805	-23.7	1.25E-03	13336	-18.3	5.37E-06	11101	32.8	4.06E-17
13631	-13.6	3.62E-03	10807	-18.2	1.70E-06	13340	-25.3	1.39E-08	11102	21.5	1.16E-08
13632	-24.5	3.21E-06	10810	-16.2	6.80E-03	13349	16.8	4.37E-05	10821	-19.9	1.34E-05
13642	21.8	5.08E-08	10811	-35.6	6.69E-08	13352	-17.3	2.80E-04	10829	11.8	1.28E-03
13646	22.7	1.71E-09	10818	-20.1	1.64E-07	13355	-13.1	6.43E-04	10832	-17.1	6.38E-03
13656	-9.1	3.41E-03	10820	-25.5	2.59E-06	13367	21.7	1.07E-09	10837	24.4	1.03E-10
									13378	-30.0	1.33E-06

TABLE 5 - GENETIC MARKERS FOR ASI

A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
2	32.9	4.14E-07	3371	33.0	5.10E-31	6751	-31.50	3.62E-16	10023	-16.17	3.69E-08	14783	24.22	3.29E-17
4	33.4	9.40E-10	3374	-15.6	5.06E-04	6752	9.20	3.20E-03	10025	-11.53	3.44E-04	14790	-15.81	5.72E-04
13	12.8	2.05E-04	3379	-24.7	5.67E-05	6755	13.10	4.52E-05	10026	-18.34	5.71E-09	14791	17.58	6.72E-08
15	18.7	1.95E-05	3385	7.6	9.61E-03	6757	-22.70	1.14E-09	10035	14.49	9.13E-06	14800	-16.50	1.96E-07
21	15.6	2.09E-07	3390	27.4	7.37E-07	6760	-9.10	3.97E-03	10036	-12.25	6.59E-05	14806	-26.57	6.84E-06
22	-14.2	6.29E-06	3391	14.9	6.53E-08	6762	-12.80	1.85E-05	10039	-19.44	3.85E-08	14807	-23.86	5.42E-07
35	-22.4	3.63E-14	3392	30.0	6.39E-14	6763	21.60	3.35E-09	10041	12.42	3.52E-03	14808	15.66	2.31E-07
36	-32	6.40E-13	3395	31.0	8.47E-12	6765	16.80	2.23E-10	10043	-19.17	3.05E-03	14815	-17.79	3.58E-03
38	-40	2.08E-11	3396	-22.6	2.80E-09	6766	-19.70	6.43E-14	10044	17.87	1.89E-09	14817	-30.13	1.09E-10
39	-40.3	1.44E-12	3407	13.2	1.20E-05	6774	-24.80	8.41E-11	10045	-22.09	1.55E-03	14820	10.50	2.31E-03
50	-19.9	5.74E-04	3408	-10.5	1.11E-03	6776	12.80	3.73E-05	10053	-16.50	1.47E-03	14828	12.01	4.89E-05
52	-21.6	1.01E-12	3409	-8.5	7.29E-03	6780	-21.30	1.06E-09	10054	10.58	1.04E-03	14839	-25.46	2.64E-17
54	14.9	9.35E-07	3417	13.6	2.03E-06	6783	-11.00	5.70E-04	10056	12.95	1.56E-03	14841	-13.51	2.36E-04
56	-11.7	4.54E-04	3418	8.9	4.00E-03	6785	13.80	3.88E-03	10059	-15.35	1.76E-07	14844	23.26	4.37E-05
62	-15.2	7.99E-03	3419	10.0	1.43E-03	6786	14.60	2.43E-03	10062	-28.13	3.97E-23	14860	9.20	2.11E-03
63	-22.3	4.47E-15	3420	25.1	1.29E-15	6788	18.40	5.69E-04	10064	-26.42	4.21E-04	14866	12.11	3.20E-04
65	-13.5	9.65E-04	3423	22.7	8.22E-13	6790	-9.20	3.28E-03	10066	-27.13	8.12E-20	14872	-20.04	5.50E-03
66	-22.5	9.87E-15	3431	35.2	4.81E-05	6798	12.70	8.82E-03	10074	-17.06	4.97E-04	14873	-12.01	1.17E-04
67	19.8	2.16E-10	3432	35.1	4.99E-05	6799	19.60	4.87E-12	10077	-20.13	3.41E-19	14876	12.71	8.29E-03
71	-17.4	2.92E-06	3436	15.2	2.59E-05	6808	-13.10	1.36E-03	10079	25.61	6.31E-08	14883	23.80	3.74E-04
73	19.2	7.59E-07	3438	-11.5	6.26E-08	6812	17.10	1.44E-05	10081	-9.41	2.59E-03	14884	-11.78	1.37E-04
75	-9.3	9.36E-04	3439	-22.7	2.33E-07	6818	-15.50	6.24E-07	10084	23.40	2.38E-11	14886	15.25	1.71E-07
77	-23.8	1.00E-15	3440	-23.9	2.60E-03	6819	-36.00	3.83E-11	10092	-15.59	5.35E-07	14891	-21.40	1.42E-08
80	-7.5	4.88E-03	3441	23.7	6.82E-06	6820	-27.00	4.48E-07	10095	19.36	4.78E-17	14893	-24.01	2.21E-07
83	-11.4	1.97E-03	3444	-25.9	5.63E-06	6824	-10.20	1.67E-03	10098	12.83	3.38E-03	14899	16.00	6.99E-06
86	25.2	8.10E-06	3448	15.5	3.07E-05	6834	-12.90	1.26E-08	10102	25.88	8.25E-10	14904	21.70	9.45E-13
97	-20.6	1.02E-11	3457	-28.0	1.43E-09	6839	22.10	8.61E-15	10103	-9.01	5.15E-03	14915	19.57	7.93E-11
99	23.7	1.77E-17	3460	-17.4	3.35E-03	6842	-16.60	4.07E-03	10104	-9.47	1.34E-03	14916	8.37	6.56E-03
101	-19.5	4.91E-11	3467	18.6	2.84E-11	6843	-25.30	5.57E-14	10107	-15.55	1.37E-06	14921	-15.43	3.66E-04
106	15.9	1.24E-07	3468	9.3	1.50E-03	6849	-46.90	1.89E-11	10108	-23.63	2.71E-03	14925	23.74	6.14E-16
114	-17	1.55E-06	3471	-18.4	3.86E-03	6854	-12.30	2.60E-03	10110	17.71	3.55E-09	14934	12.96	8.71E-04
117	-12.4	8.61E-05	3479	-20.2	3.83E-05	6856	-14.50	2.36E-06	10114	27.87	2.99E-09	14937	22.94	1.27E-15
118	-8.4	6.42E-03	3482	-12.1	1.71E-04	6857	-10.80	3.79E-04	10117	-16.93	7.79E-08	14940	24.34	1.43E-08
120	-19.1	1.24E-05	3483	19.0	6.56E-04	6864	-17.60	1.79E-09	10119	-11.94	5.66E-05	14948	-11.87	1.25E-04
126	18.1	7.50E-04	3485	-37.4	4.10E-30	6865	11.00	1.65E-03	10124	-26.21	7.19E-17	14957	16.31	3.05E-07
131	10.1	3.47E-04	3489	14.1	5.27E-06	6866	23.80	2.91E-06	10127	-28.43	7.49E-13	14960	-12.68	7.75E-06
133	10.5	6.68E-03	3490	18.2	7.50E-08	6867	-11.90	2.95E-03	10132	13.54	8.59E-05	14966	-30.87	6.43E-24
135	-9.2	6.81E-03	3491	33.4	3.59E-31	6869	-27.10	8.86E-18	10134	-29.22	3.11E-04	14972	20.98	1.28E-12
136	-24.7	4.84E-04	3492	19.4	2.79E-09	6870	-19.50	7.34E-04	10138	-21.68	9.65E-05	14973	15.85	5.67E-05
137	-15.9	3.26E-07	3498	12.8	5.75E-05	6879	-8.90	4.50E-03	10139	-16.57	1.79E-08	14974	-24.16	1.29E-10
142	-10.2	2.19E-04	3499	8.3	7.65E-03	6882	15.80	3.89E-03	10148	-20.57	1.02E-10	14975	21.98	7.12E-10
145	14	1.34E-04	3502	-21.5	6.98E-03	6886	-13.10	5.20E-05	10150	-7.54	7.29E-03	14979	16.53	2.82E-05
148	-19.6	1.07E-06	3503	-12.4	9.56E-03	6887	-11.40	2.60E-04	10156	-20.13	3.97E-03	14989	-38.29	2.05E-14

152	27	4.86E-11	3506	-24.4	1.68E-08	6889	-10.70	5.26E-04	10157	-10.87	1.44E-04	14990	-23.88	5.15E-06
154	-23.6	2.46E-07	3511	14.3	2.12E-04	6891	-17.80	1.46E-07	10160	29.05	1.93E-26	14999	-25.94	1.55E-03
159	-18	4.58E-06	3514	-28.6	1.91E-18	6894	29.10	1.85E-13	10161	-28.60	1.42E-12	15001	-24.73	4.40E-08
161	-11.9	8.30E-05	3515	23.1	3.47E-04	6895	17.20	3.74E-07	10162	-23.87	3.04E-14	15003	-27.82	8.73E-21
162	-31.3	1.43E-06	3518	-36.5	5.02E-06	6900	-14.10	7.46E-03	10163	14.37	7.38E-06	15007	-18.60	7.23E-03
168	23.5	8.33E-14	3519	-11.4	5.01E-04	6904	6.50	1.90E-03	10176	10.39	5.86E-04	15008	-19.49	1.21E-05
171	19	2.88E-10	3521	14.1	3.31E-03	6906	12.00	8.98E-05	10177	23.48	3.12E-14	15012	-41.42	2.75E-06
173	-30.5	5.18E-07	3523	24.3	2.13E-15	6907	12.20	6.70E-05	10182	14.88	2.75E-03	15026	-16.75	5.44E-08
174	17.3	1.69E-04	3527	15.8	4.17E-05	6909	-17.70	1.29E-03	10183	-21.43	4.34E-03	15043	15.40	1.29E-06
176	-31.1	1.32E-24	3531	-8.6	5.89E-03	6910	14.70	3.61E-04	10187	-6.98	9.62E-03	15047	-20.68	2.98E-10
177	14.6	3.06E-06	3533	-19.1	6.71E-06	6928	21.00	1.38E-09	10193	-10.08	7.75E-03	15060	-23.96	9.16E-14
181	20.8	8.35E-13	3538	-14.3	3.00E-05	6933	-23.60	5.31E-07	10194	-19.26	2.29E-09	15062	-44.04	1.02E-10
185	17.3	9.06E-07	3539	15.1	2.70E-06	6934	-23.70	5.25E-07	10196	-22.52	8.88E-03	15078	-12.86	5.31E-06
186	12.2	1.67E-04	3540	-13.5	2.57E-06	6936	-11.50	7.11E-04	10198	15.08	1.51E-05	15092	10.17	7.55E-04
189	-20.6	5.67E-08	3544	-13.4	1.64E-03	6938	-13.60	1.07E-06	10199	28.29	4.90E-23	15104	13.52	1.84E-05
174														
191	-18.4	1.77E-09	3546	-14.7	1.37E-03	6939	15.10	3.96E-05	10200	30.67	1.13E-21	15110	-12.53	1.34E-04
194	26.5	9.49E-19	3548	-30.5	6.64E-07	6942	-9.20	3.98E-04	10208	15.86	5.04E-07	15113	-25.39	1.14E-06
196	8.8	4.71E-03	3554	10.7	4.67E-07	6945	16.60	2.30E-08	10212	-30.56	2.46E-14	15114	-20.21	1.27E-08
200	-22.2	2.14E-12	3558	-15.9	2.80E-07	6953	26.80	4.37E-19	10222	-20.77	1.83E-03	15121	15.79	3.91E-03
201	-18.1	1.20E-08	3559	-20.0	3.12E-03	6954	-11.60	2.18E-04	10226	9.65	1.31E-03	15128	18.25	1.80E-09
205	-9.7	2.25E-03	3563	-24.2	7.69E-07	6962	23.50	1.55E-14	10230	11.35	2.41E-03	15131	-16.96	4.15E-08
210	-15.2	2.12E-05	3568	12.9	8.38E-06	6965	-7.50	8.94E-03	10233	10.92	1.37E-03	15132	-25.27	3.36E-07
215	-24.6	1.67E-08	3569	11.1	2.69E-04	6967	-10.60	9.75E-05	10254	-15.72	3.07E-03	15133	-26.56	1.32E-03
217	27.8	1.84E-13	3575	-25.1	1.08E-03	6980	-18.10	1.01E-09	10257	13.03	3.59E-03	15147	-12.72	2.34E-05
219	16.8	2.83E-07	3579	18.5	1.32E-13	6989	-24.00	7.75E-08	10258	-16.71	5.23E-05	15148	-9.61	5.00E-03
220	-15.3	4.65E-06	3580	-13.5	3.74E-03	6991	-12.40	2.35E-04	10261	9.71	9.96E-03	15149	-17.01	8.09E-04
221	-12	3.09E-04	3591	36.0	1.63E-07	6996	39.20	6.07E-36	10265	-13.44	3.98E-03	15150	20.85	6.76E-10
225	11.7	1.02E-04	3592	15.5	2.13E-06	6998	-20.50	6.48E-07	10268	-18.11	5.82E-10	15164	21.04	3.84E-12
231	-33	3.32E-22	3593	-24.4	4.29E-15	6999	-28.80	2.55E-22	10269	-19.02	6.97E-04	15168	-14.17	5.99E-05
233	-17	1.48E-07	3594	27.6	3.67E-13	7004	15.40	4.30E-07	10274	-20.71	7.80E-07	15172	13.06	1.23E-05
235	-12.5	2.20E-03	3595	-21.4	7.61E-04	7008	-10.40	2.05E-03	10277	-15.12	8.60E-04	15175	-20.34	3.12E-03
237	-14.9	1.56E-03	3596	-15.9	4.58E-07	7011	-14.30	1.68E-05	10282	16.05	5.16E-03	15184	-23.86	1.18E-13
238	-17.9	1.06E-06	3601	-20.2	4.40E-09	7012	-14.20	1.81E-05	10283	-19.58	7.90E-08	15187	-23.07	9.85E-06
242	15.7	5.18E-08	3602	13.3	2.70E-03	7013	-17.50	3.68E-08	10286	-13.31	4.24E-05	15191	-10.19	1.38E-03
246	-23.2	1.29E-07	3606	13.0	1.01E-05	7018	-23.00	2.36E-09	10289	-22.78	2.95E-09	15192	-25.26	1.84E-08
248	17.7	4.71E-04	3613	20.0	7.94E-11	7020	9.30	5.62E-03	10291	-8.30	4.12E-03	15199	8.52	5.43E-03
249	-14.4	3.74E-06	3615	9.3	2.25E-03	7022	-16.10	9.03E-03	10292	-14.72	2.45E-03	15204	-19.19	5.02E-08
251	12.7	1.91E-05	3617	31.5	3.64E-06	7023	-19.10	4.59E-09	10296	-13.36	2.14E-05	15209	-9.49	1.27E-03
255	39.7	6.56E-07	3618	28.5	3.76E-19	7025	-9.20	2.14E-03	10299	18.31	2.33E-06	15211	-29.81	2.60E-16
256	-12.7	8.05E-04	3619	-19.6	4.19E-10	7027	-17.90	1.68E-05	10300	-15.61	1.33E-06	15239	16.83	1.21E-06
257	19.1	1.56E-06	3621	-11.4	7.04E-03	7028	20.90	5.50E-06	10301	10.34	2.11E-03	15243	-30.55	1.40E-13
258	-12.9	5.62E-05	3625	16.3	3.69E-14	7032	11.50	2.01E-04	10302	14.71	9.14E-07	15244	-27.63	3.43E-08
259	29.4	3.12E-05	3627	-12.2	7.48E-03	7044	-21.50	9.55E-10	10304	-12.75	5.50E-05	15245	-13.63	9.48E-06
262	-15.6	1.62E-07	3631	-22.4	6.82E-13	7047	-12.30	1.09E-03	10305	-17.19	1.24E-08	15248	-25.99	1.45E-09
263	-12.3	1.60E-03	3633	20.9	1.04E-03	7049	8.40	4.47E-03	10312	-9.70	1.86E-03	15250	11.31	1.92E-03

265	-12.8	1.32E-04	3636	-21.5	2.06E-10	7052	-37.30	2.11E-08	10313	-14.03	3.51E-06	15252	15.87	5.55E-05
270	10.3	1.84E-04	3647	-13.1	5.57E-05	7053	-13.30	3.17E-08	10315	-20.86	3.22E-07	15260	-30.21	2.89E-21
273	14.2	3.44E-04	3649	13.8	8.38E-06	7055	-17.60	1.16E-07	10317	-11.74	1.15E-03	15277	-14.92	1.42E-06
277	16.6	7.38E-04	3652	-46.3	1.36E-10	7058	-9.80	1.22E-03	10325	-18.22	7.12E-03	15281	-11.16	3.10E-04
281	12.8	3.46E-03	3655	-12.1	2.57E-03	7063	9.80	3.07E-06	10331	9.63	6.15E-03	15283	10.52	1.89E-03
282	14.7	8.26E-07	3661	-18.4	3.79E-09	7064	13.20	8.00E-06	10333	23.48	8.05E-15	15289	-20.64	1.18E-09
298	13.9	4.93E-06	3667	9.7	6.60E-03	7068	17.20	6.19E-06	10341	-26.95	5.87E-15	15291	10.99	4.79E-04
305	24.8	4.25E-16	3668	20.2	1.55E-11	7069	-24.50	2.04E-10	10342	13.14	6.03E-04	15293	-14.69	1.15E-05
307	14.1	2.12E-06	3669	14.3	1.22E-06	7071	11.40	3.81E-03	10343	17.66	6.75E-09	15302	12.46	5.42E-04
308	14.7	2.75E-05	3684	12.6	2.06E-05	7072	-22.80	3.41E-13	10346	-36.83	3.54E-06	15307	-7.30	9.99E-03
309	8.6	1.10E-03	3687	-23.1	3.64E-03	7073	-22.80	3.41E-13	10353	14.97	1.65E-03	15309	17.41	1.75E-09
312	-15.2	4.24E-07	3690	7.8	8.93E-03	7078	-15.00	1.71E-04	10355	14.81	1.17E-05	15321	14.67	3.07E-04
318	-23.6	3.70E-16	3693	-9.5	4.24E-03	7079	17.50	1.57E-09	10357	12.28	7.66E-04	15328	-25.56	7.04E-04
321	22.3	4.63E-08	3695	-23.1	1.96E-05	7086	-30.00	4.83E-18	10358	-17.93	1.63E-05	15329	26.67	1.85E-09
323	-22.6	2.97E-06	3696	-15.7	2.02E-04	7088	-18.40	2.06E-05	10362	-16.30	1.55E-06	15331	10.18	4.48E-03
326	13.1	1.36E-05	3697	-8.0	7.02E-03	7092	11.70	2.71E-04	10363	12.57	4.50E-05	15333	10.15	6.09E-04
327	-9.8	4.66E-03	3699	-11.5	1.61E-03	7094	-12.20	9.93E-04	10366	-10.58	8.81E-03	15337	15.58	6.64E-06
328	-20	1.12E-06	3700	30.3	1.25E-18	7097	-10.90	1.28E-03	10367	9.36	1.53E-03	15339	-26.00	1.76E-07
330	-32.5	4.50E-13	3704	17.9	1.30E-06	7098	12.20	4.71E-05	10368	16.43	8.45E-05	15340	-11.25	2.81E-04
331	-12.2	8.73E-05	3706	-13.8	5.37E-05	7101	-20.10	1.12E-14	10369	-11.27	5.03E-03	15351	9.85	4.36E-03
333	9.7	5.59E-04	3708	26.8	6.10E-19	7106	15.00	1.48E-06	10370	19.81	1.17E-11	15368	-12.10	1.57E-04
336	-18.6	1.08E-09	3709	-25.7	2.62E-09	7108	-19.70	8.82E-06	10371	-14.44	3.76E-06	15374	11.55	3.00E-03
337	20.8	2.20E-11	3713	17.2	3.51E-06	7112	-24.70	9.60E-15	10372	-12.41	2.38E-08	15375	-24.22	6.41E-13
343	-30.3	2.83E-05	3714	-7.8	2.94E-04	7116	29.20	3.95E-25	10373	-16.11	6.18E-07	109	7.86	0.05
345	-24.2	2.49E-10	3719	-10.4	8.15E-03	7122	-15.10	1.15E-03	10374	-7.43	9.73E-03	113	3.19	0.05
348	-12	9.03E-05	3722	23.1	5.72E-15	7123	21.00	1.27E-09	10375	-19.60	2.28E-07	254	-4.26	0.05
352	14.3	7.04E-04	3723	-18.9	2.71E-03	7124	15.50	2.76E-06	10383	-12.87	6.13E-03	593	6.08	0.05
354	-33.9	7.80E-19	3726	11.8	1.03E-04	7128	13.80	4.89E-06	10386	-8.38	5.95E-03	903	-7.92	0.05
363	-21.2	1.41E-03	3727	-24.8	3.60E-13	7129	-16.80	5.42E-08	10387	-8.41	7.22E-03	1018	-11.72	0.05
364	-14.4	7.06E-03	3728	9.5	2.50E-03	7130	14.60	2.95E-04	10393	-10.19	5.03E-03	1116	6.70	0.05
175														
367	-10.9	2.91E-04	3729	-23.6	2.36E-12	7133	-10.70	8.31E-04	10395	-11.93	6.76E-03	1259	8.84	0.05
369	24.3	2.67E-08	3730	13.1	6.92E-08	7135	27.80	1.51E-04	10396	-20.94	7.75E-08	1440	11.19	0.05
372	-28.3	2.02E-09	3731	10.1	1.05E-03	7136	23.60	7.52E-04	10399	13.65	2.18E-05	1485	-35.82	0.05
373	28.7	8.80E-06	3734	11.7	1.86E-04	7139	-14.30	1.47E-05	10402	-22.94	6.51E-16	1651	-62.80	0.05
376	-17	1.43E-04	3735	-19.0	5.45E-05	7140	-19.40	4.06E-03	10404	-10.20	5.67E-04	1801	3.22	0.05
377	-42.9	7.19E-11	3736	15.7	1.18E-03	7145	12.40	4.75E-05	10407	-9.57	9.69E-03	1831	4.33	0.05
381	21.7	7.53E-13	3740	-25.8	1.70E-15	7146	8.10	7.36E-03	10408	-15.99	5.40E-07	2000	7.35	0.05
386	-20.6	1.64E-03	3742	-26.2	2.18E-12	7147	8.30	6.27E-03	10411	-17.89	7.16E-03	2208	-3.16	0.05
390	-12.6	2.06E-04	3743	-11.8	7.45E-03	7149	16.20	3.47E-05	10415	-10.82	7.34E-03	2681	4.92	0.05
393	28.4	1.68E-15	3745	18.1	4.26E-09	7159	9.70	2.33E-03	10419	17.06	6.55E-03	3013	-5.02	0.05
394	-23.3	8.65E-14	3749	-32.1	2.67E-23	7160	28.00	3.37E-15	10422	19.11	9.21E-05	3017	-3.11	0.05
395	-15.4	3.23E-07	3750	-16.0	3.88E-07	7161	-15.50	3.82E-06	10423	20.51	5.08E-09	3164	-4.72	0.05
396	-16.9	1.57E-05	3752	-17.4	5.61E-09	7162	12.00	1.42E-04	10426	-10.77	4.38E-04	3351	-3.99	0.05
404	31.5	4.70E-16	3753	-16.8	7.91E-07	7166	-16.10	7.00E-07	10427	-16.62	1.43E-03	3920	-3.37	0.05
407	-9.9	3.97E-03	3757	13.9	4.10E-04	7172	17.18	1.62E-08	10436	-23.14	1.20E-05	4147	-3.76	0.05

408	-25.3	1.95E-08	3759	-28.7	4.99E-17	7180	-24.11	6.12E-07	10438	31.26	5.87E-32	4546	8.13	0.05
409	-10.1	7.05E-04	3760	33.3	1.34E-32	7181	-39.62	2.17E-09	10444	-30.01	1.24E-18	4718	-53.39	0.05
410	-19.8	5.84E-12	3762	-24.2	2.64E-05	7184	-11.44	1.32E-04	10448	-17.61	1.27E-07	4889	-3.98	0.05
411	-20.1	3.16E-12	3763	23.7	6.43E-08	7190	19.19	1.01E-10	10449	-15.70	4.54E-07	5008	-2.32	0.05
412	-34.2	2.40E-22	3768	-22.7	3.68E-04	7195	-9.33	7.22E-03	10453	-21.29	6.66E-04	5309	1.41	0.05
413	11.4	6.09E-04	3770	15.1	3.31E-07	7197	-28.80	4.57E-22	10454	17.66	1.81E-09	6403	10.03	0.05
415	-21.7	1.92E-10	3771	-22.8	2.60E-09	7198	-16.07	5.08E-05	10456	-26.05	1.23E-12	6950	1.71	0.05
416	-10.9	1.60E-03	3772	-36.1	7.12E-18	7199	-27.20	6.22E-15	10461	-18.09	2.12E-04	6983	-6.11	0.05
418	13.5	2.39E-03	3773	-16.1	9.14E-03	7202	-23.60	5.52E-07	10462	9.49	1.96E-03	8459	-8.49	0.05
424	-18.2	3.78E-04	3776	-11.2	4.78E-04	7204	15.01	3.35E-06	10468	-9.25	4.78E-04	8653	-15.94	0.05
425	-15.9	4.41E-08	3777	-18.8	1.00E-03	7208	-12.19	1.30E-03	10474	-19.50	2.11E-07	8696	4.55	0.05
429	12.8	1.18E-05	3778	-9.6	1.72E-03	7209	25.34	7.80E-10	10480	-13.61	8.36E-04	8879	-5.26	0.05
440	10.7	4.29E-04	3780	24.9	3.66E-19	7213	7.37	5.88E-03	10481	14.02	5.70E-05	8975	3.20	0.05
444	-15.6	1.84E-06	3787	17.9	4.64E-03	7218	-25.70	1.08E-19	10483	20.34	1.41E-03	9066	-8.07	0.05
447	-10.4	4.70E-03	3788	-23.1	2.07E-12	7219	-30.75	4.05E-19	10487	-20.80	4.08E-08	9172	25.95	0.05
450	15.7	5.30E-07	3789	-24.2	4.87E-06	7223	-31.12	1.47E-15	10493	-17.61	3.25E-03	9467	4.09	0.05
465	-25.6	7.69E-08	3792	-16.6	2.37E-05	7227	24.71	7.05E-13	10494	16.17	1.56E-10	9611	3.46	0.05
467	-18.8	4.03E-10	3793	-15.2	1.26E-06	7228	25.10	3.02E-13	10498	-35.28	5.48E-09	10055	4.89	0.05
470	-13.2	1.57E-03	3796	-38.3	5.86E-21	7229	17.65	1.89E-08	10500	-10.26	2.89E-03	10458	-8.59	0.05
474	18.3	1.99E-09	3797	-38.1	2.55E-22	7231	13.30	9.26E-06	10503	9.16	3.97E-03	10643	7.49	0.05
476	27.9	7.78E-16	3798	-20.6	4.15E-07	7232	-22.54	3.78E-13	10505	16.88	1.31E-08	10735	-8.49	0.05
477	13.7	8.51E-06	3799	-21.8	7.73E-03	7233	10.28	5.04E-04	10509	-9.05	3.98E-03	11071	-13.20	0.05
478	15.1	8.86E-07	3801	10.1	1.61E-03	7239	-35.20	8.50E-09	10513	-16.93	6.22E-08	11428	-25.10	0.05
479	-51.3	1.21E-10	3805	9.9	1.80E-03	7245	8.47	6.13E-05	10515	-16.46	1.38E-03	11777	-20.99	0.05
481	14.8	1.25E-05	3808	-20.9	1.19E-11	7251	17.97	4.82E-08	10520	-47.08	5.47E-16	11832	16.12	0.05
497	-36	9.80E-23	3810	-11.5	3.51E-04	7252	-16.68	3.85E-03	10524	-18.44	3.94E-09	11904	-4.32	0.05
499	19.8	6.87E-08	3812	-16.8	2.37E-08	7267	-14.14	6.88E-03	10530	11.28	1.58E-03	12270	34.58	0.05
500	20.7	1.32E-03	3814	-18.1	8.80E-03	7271	-21.63	7.39E-14	10537	-12.93	4.98E-05	12650	-13.42	0.05
502	-14.2	1.93E-06	3818	-11.5	4.74E-03	7279	-9.13	3.67E-03	10538	12.82	1.47E-03	12870	9.00	0.05
503	-9.9	6.27E-03	3821	21.6	1.72E-03	7284	23.61	5.56E-04	10539	9.97	9.46E-04	12959	14.96	0.05
507	-25.7	1.20E-16	3844	-12.8	3.47E-03	7286	11.78	2.20E-03	10545	-10.19	2.76E-03	13257	-6.71	0.05
508	21.3	1.19E-13	3859	-28.4	1.19E-22	7289	23.43	9.23E-15	10547	-22.87	2.58E-09	13354	-21.34	0.05
521	-15.2	8.16E-07	3862	18.4	5.42E-10	7293	-18.97	2.49E-08	10548	16.32	7.87E-08	13364	13.99	0.05
523	-12.9	4.98E-03	3864	-8.9	2.05E-03	7296	-24.47	5.50E-06	10550	-15.52	1.07E-06	13728	36.30	0.05
525	-13.2	3.10E-03	3865	-18.7	2.70E-09	7304	-20.13	2.13E-05	10553	11.47	5.83E-04	13868	28.59	0.05
529	-14.5	1.46E-04	3866	10.3	5.09E-04	7305	8.82	7.87E-03	10554	-18.38	2.06E-05	14348	3.52	0.05
530	-21.7	5.16E-03	3873	-9.8	8.70E-03	7310	-10.32	6.88E-04	10555	15.43	4.39E-04	14393	-4.95	0.05
531	23.3	7.98E-10	3876	-10.3	2.75E-03	7311	-23.98	1.27E-15	10558	-10.25	1.22E-03	14967	4.72	0.05
532	18.2	9.95E-09	3878	-33.2	1.73E-28	7312	-15.93	7.25E-03	10559	8.49	4.41E-03	14986	-25.83	0.05
534	-22.3	2.44E-10	3879	-12.1	1.64E-03	7313	17.69	1.24E-08	10560	-14.20	5.04E-06	15129	14.49	0.05
535	12	1.56E-03	3880	-12.7	4.51E-04	7315	-19.92	5.43E-06	10561	-20.52	5.90E-07	15154	19.76	0.05
538	-19.9	2.79E-13	3883	12.2	7.69E-05	7316	-19.74	3.77E-08	10563	-13.41	1.86E-03	13891	-22.93	3.18E-07
539	-12.7	4.86E-05	3884	-24.2	3.50E-17	7317	-19.27	1.33E-07	10569	16.87	1.01E-07	13898	17.55	3.13E-07
540	-24	2.52E-16	3886	25.4	8.40E-15	7319	-22.11	8.27E-05	10570	-12.51	4.60E-05	13899	-13.34	7.54E-04
541	-17.6	2.83E-06	3887	-12.8	4.53E-04	7320	-13.43	2.19E-03	10572	-10.11	4.10E-03	13901	10.54	1.72E-03

176

543	19.6	2.25E-07	3891	-9.2	6.20E-03	7322	-8.61	1.76E-03	10576	-27.52	3.06E-20	13903	-14.34	7.29E-05
546	-9.5	2.48E-03	3892	-21.2	1.28E-11	7326	-17.84	3.74E-03	10579	-21.18	1.39E-04	13906	-16.61	1.80E-06
550	16.2	9.49E-04	3895	-12.7	3.56E-05	7329	-33.55	2.16E-08	10582	9.23	1.29E-05	13913	10.39	1.08E-03
552	13.4	3.36E-05	3900	-10.4	5.03E-04	7331	10.91	4.50E-03	10584	-15.08	4.63E-06	13914	-34.19	4.60E-06
558	-16.2	1.11E-03	3902	-25.4	9.54E-13	7335	-18.69	3.02E-05	10586	-18.06	1.06E-03	13916	-32.09	1.32E-09
559	24.7	1.17E-18	3904	-15.3	3.43E-07	7336	15.38	5.29E-04	10588	14.00	5.92E-06	13917	-19.01	6.71E-10
561	-30	1.37E-11	3910	11.1	4.40E-05	7338	-14.08	7.26E-05	10590	-11.47	1.08E-04	13920	-26.45	6.06E-06
563	-9.1	5.23E-03	3913	10.1	9.56E-04	7340	-10.33	8.65E-03	10593	16.42	1.02E-07	13923	-13.49	1.02E-03
565	15.6	5.59E-07	3914	-35.2	4.25E-33	7341	-23.59	1.81E-03	10595	-10.21	1.81E-03	13927	19.86	2.52E-08
569	-11.7	1.22E-04	3916	10.4	3.29E-04	7345	18.71	2.24E-06	10599	-21.06	3.29E-07	13929	-10.21	2.42E-03
570	-24.1	4.84E-16	3917	15.5	6.29E-06	7352	7.82	7.80E-03	10601	-24.08	4.89E-13	13930	-9.20	8.71E-03
571	12.6	4.19E-05	3918	-17.7	3.53E-06	7355	-14.22	5.97E-07	10603	-11.89	2.61E-04	13934	-10.86	6.22E-04
582	8.6	4.58E-03	3922	-12.6	1.03E-05	7357	28.19	9.10E-17	10604	-31.11	3.30E-18	13939	-11.85	1.41E-04
583	-12	4.86E-05	3926	18.7	6.15E-10	7359	-25.49	2.55E-05	10607	8.19	2.66E-03	13949	-21.01	1.52E-06
588	-21.8	8.14E-07	3927	-15.4	8.30E-07	7367	-14.27	4.41E-05	10608	-13.99	3.87E-05	13955	14.09	9.05E-05
592	14.7	1.23E-06	3928	-12.2	1.37E-04	7370	-28.27	4.44E-08	10612	-15.14	1.16E-04	13960	-22.59	5.87E-06
594	-24	1.44E-15	3929	13.7	6.48E-06	7374	22.04	3.99E-13	10613	-22.70	4.19E-09	13963	-11.53	4.05E-04
595	-27.7	7.68E-14	3930	-29.1	6.69E-09	7380	11.04	2.82E-04	10622	-19.91	1.31E-04	13971	13.35	1.78E-04
599	-8.9	6.47E-03	3937	-13.7	4.48E-06	7386	-19.64	1.26E-10	10625	14.87	1.91E-05	13973	15.70	6.15E-05
614	-25.8	2.72E-16	3938	23.1	6.04E-08	7388	-12.39	9.17E-05	10627	-13.29	1.01E-05	13984	-25.95	2.52E-18
615	17.1	3.68E-09	3940	19.8	1.75E-11	7390	15.06	1.75E-03	10629	-10.20	3.01E-03	13985	8.31	6.08E-03
617	-10.4	1.81E-03	3945	-15.0	5.14E-03	7392	-28.41	5.57E-07	10630	11.72	1.26E-03	13998	18.23	5.89E-07
620	24.7	8.34E-17	3946	28.3	3.42E-20	7396	16.97	1.19E-08	10633	-14.20	5.11E-05	14010	-10.82	1.94E-04
629	32.4	1.08E-20	3947	-16.1	1.18E-07	7398	9.31	3.44E-03	10634	24.86	3.13E-10	14014	-9.81	5.00E-04
633	11.2	2.47E-03	3957	-16.5	2.65E-05	7399	24.22	5.96E-04	10647	10.22	7.49E-03	14015	-18.80	2.49E-08
636	10.9	7.32E-04	3959	22.6	6.40E-06	7400	24.25	5.89E-04	10649	24.66	7.56E-17	14016	12.55	1.85E-04
637	-9.9	1.42E-03	3961	14.6	1.11E-05	7403	-12.42	6.11E-03	10660	-19.24	3.03E-04	14019	27.42	1.74E-23
644	28.2	8.68E-23	3968	-27.7	1.07E-05	7404	-12.50	6.09E-03	10666	-23.80	1.92E-08	14030	12.64	7.39E-04
647	13.4	6.77E-06	3972	35.9	2.38E-22	7406	15.36	4.20E-05	10668	-43.94	1.01E-15	14031	-20.92	3.48E-11
649	19.3	4.18E-10	3983	15.7	9.25E-08	7407	10.89	3.00E-04	10669	-13.43	3.85E-03	14033	-9.46	8.51E-03
650	9.5	2.09E-03	4001	15.6	1.93E-03	7410	12.37	4.55E-04	10674	-15.23	6.50E-07	14038	-16.72	5.84E-08
652	24	2.05E-09	4009	16.0	1.07E-07	7412	-21.99	3.14E-07	10677	14.93	1.05E-05	14039	19.34	4.15E-03
657	-18.1	2.16E-09	4011	22.0	9.29E-12	7414	13.20	4.13E-08	10678	-25.33	7.05E-05	14050	9.85	1.72E-03
660	14.2	9.80E-03	4014	-9.0	1.97E-03	7416	-14.40	3.50E-06	10681	-10.28	7.25E-04	14052	-22.90	2.58E-13
663	-15.1	6.44E-05	4015	15.0	1.91E-05	7420	-7.65	8.78E-03	10682	-15.57	5.43E-03	14057	-13.45	6.66E-06
664	-14.3	1.89E-06	4017	-16.8	4.22E-07	7421	-15.81	2.92E-07	10685	8.77	8.27E-03	14071	-23.02	5.90E-14
668	-9.2	3.45E-03	4021	24.0	2.62E-05	7424	27.46	1.57E-11	10688	-25.47	4.06E-17	14079	12.01	7.75E-05
672	14.2	1.96E-06	4022	-18.8	1.22E-06	7425	-11.90	1.33E-03	10696	-18.41	1.03E-06	14081	-21.90	7.06E-07
680	8.6	8.23E-03	4025	26.3	5.83E-20	7426	11.11	3.51E-04	10711	-20.06	1.02E-11	14084	15.18	8.03E-05
681	18.8	3.83E-10	4027	19.5	3.76E-10	7427	-17.13	9.21E-05	10715	-16.78	4.64E-04	14086	-24.47	1.09E-16
683	-15	9.85E-07	4028	-26.1	7.25E-07	7429	9.05	3.89E-03	10716	7.69	9.73E-03	14087	-20.73	3.72E-04
688	15.4	4.19E-07	4030	-11.0	2.16E-04	7430	-15.70	6.20E-07	10717	-12.56	8.94E-05	14090	-20.89	1.21E-05
690	-33.2	1.98E-19	4031	-30.8	2.40E-07	7434	23.16	8.23E-19	10722	11.86	8.90E-04	14093	9.61	6.42E-03
696	-11.9	8.63E-05	4032	16.5	4.58E-08	7437	7.92	5.85E-03	10724	-40.68	6.45E-10	14101	25.48	1.98E-10
703	17.4	2.83E-07	4041	-13.6	1.53E-03	7439	17.85	5.40E-05	10728	15.34	2.17E-03	14104	-9.14	6.34E-03
707	9.9	7.62E-04	4043	8.8	1.17E-03	7443	-40.33	1.04E-10	10731	-26.11	3.37E-05	14106	16.90	6.21E-10

708	38.1	2.37E-06	4044	-22.2	1.35E-08	7447	-8.21	8.78E-03	10733	21.13	1.69E-08	14111	-24.97	4.34E-15
718	-21.1	3.62E-10	4045	21.6	1.96E-11	7448	-27.33	1.13E-20	10734	36.44	2.29E-30	14113	28.15	7.79E-21
722	9.2	7.83E-04	4049	10.7	9.18E-03	7453	-18.41	7.65E-09	10738	-13.82	1.02E-03	14125	-10.87	3.83E-03
724	-16	9.26E-06	4050	8.6	4.05E-03	7455	-21.68	5.12E-03	10741	-17.94	9.46E-06	14130	18.61	1.87E-05
730	-30.4	4.58E-18	4051	-22.8	3.86E-17	7460	27.20	8.39E-17	10744	-22.55	2.24E-06	14131	-14.03	3.46E-06
736	18.3	3.64E-09	4052	-26.9	1.19E-19	7461	19.49	9.02E-04	10752	-19.55	8.47E-11	14144	8.41	6.84E-03
746	-25.5	2.57E-05	4053	18.9	8.71E-09	7464	-15.10	3.43E-04	10755	10.87	1.96E-03	14151	-14.24	9.92E-06
749	-16.2	1.64E-05	4056	22.2	2.13E-14	7467	-8.90	6.51E-03	10758	-43.07	1.02E-15	14153	-20.47	1.92E-07
753	-9.4	1.85E-03	4059	-12.0	9.24E-05	7468	20.11	2.22E-12	10760	-12.26	9.16E-05	14164	-14.51	1.27E-05
754	-11.6	3.47E-03	4060	14.2	1.74E-06	7469	-20.22	3.30E-04	10763	-35.33	5.23E-10	14170	20.18	3.40E-12
757	-12.6	1.70E-05	4061	14.3	1.68E-06	7472	15.93	2.47E-06	10774	26.45	1.61E-08	14176	-14.09	5.34E-03
760	-46.3	4.96E-09	4068	22.2	2.67E-04	7476	-19.83	2.08E-04	10775	-10.86	2.11E-04	14178	-16.95	1.41E-12
761	14	2.99E-03	4070	-17.7	4.28E-09	7478	-23.70	1.74E-04	10778	19.95	6.77E-12	14182	10.25	1.10E-03
762	34.7	2.12E-14	4075	-16.8	2.89E-08	7490	-15.99	4.47E-08	10791	-15.59	2.19E-07	14189	22.70	7.05E-08
177														
766	15.3	1.95E-06	4076	-22.6	1.67E-05	7491	18.94	3.51E-05	10798	13.88	2.28E-06	14191	-19.02	5.20E-08
767	-21.7	8.28E-04	4077	-12.2	8.38E-05	7493	13.89	4.62E-06	10802	20.31	3.04E-06	14194	-32.63	4.97E-13
769	-24	1.37E-17	4079	13.0	3.20E-03	7494	-8.20	8.91E-03	10805	-21.29	4.63E-04	14195	-22.86	3.36E-09
770	-23.6	1.22E-04	4084	31.7	2.76E-17	7495	-13.18	1.45E-03	10807	-13.44	2.00E-05	14197	-25.51	5.64E-08
772	-9.8	2.15E-03	4088	-21.7	9.59E-12	7496	-12.02	3.10E-05	10811	-28.81	2.42E-07	14206	17.96	3.11E-05
774	-13.1	4.43E-03	4090	-8.8	6.19E-03	7497	14.58	5.26E-07	10818	-16.98	3.00E-08	14213	10.03	1.44E-03
777	-15.8	2.67E-04	4091	-25.9	4.02E-04	7498	14.16	2.78E-04	10820	-18.32	5.77E-05	14219	-10.87	7.48E-04
779	-34.2	1.40E-16	4096	13.1	1.05E-03	7500	17.17	7.15E-03	10821	-13.09	2.82E-04	14222	-24.34	1.68E-05
781	16.5	1.30E-05	4097	-26.6	4.57E-19	7502	-24.38	1.65E-14	10829	9.14	2.36E-03	14227	-11.58	2.56E-04
782	-13.9	2.27E-05	4098	-15.0	2.21E-06	7504	-16.26	3.35E-04	10832	-15.57	1.32E-03	14237	-20.68	3.85E-07
784	-26.9	8.13E-09	4099	-8.5	6.28E-03	7506	-19.01	2.33E-10	10837	16.81	5.23E-08	14242	-11.02	3.49E-04
785	13.3	4.68E-03	4100	17.4	5.82E-08	7507	-16.58	2.20E-06	10838	18.50	1.43E-09	14244	-28.35	1.79E-24
793	26.1	3.79E-11	4106	-13.3	8.58E-06	7508	-13.53	5.78E-03	10848	-19.10	1.34E-04	14246	-20.50	3.36E-11
794	28.2	2.62E-09	4115	13.5	1.24E-05	7515	-32.43	1.54E-18	10850	-16.83	1.15E-08	14253	15.40	8.12E-04
795	19.1	3.68E-09	4120	-24.3	1.18E-11	7516	-31.12	4.01E-18	10865	12.98	3.50E-05	14259	-24.51	4.57E-06
799	17.3	5.35E-03	4121	-19.1	3.07E-07	7520	20.39	4.38E-12	10872	-35.93	1.23E-24	14260	-15.52	5.46E-07
801	-34.2	8.27E-11	4126	-17.1	6.80E-04	7524	-16.14	6.47E-07	10888	-32.25	3.68E-24	14265	-13.96	9.99E-06
808	-17.3	7.63E-08	4130	-9.4	2.10E-03	7525	-15.81	1.10E-06	10889	-18.25	1.28E-10	14269	19.57	4.63E-06
811	35.7	8.66E-09	4131	-26.8	2.47E-04	7532	-24.91	5.25E-10	10891	-10.65	2.32E-03	14273	-12.92	4.54E-05
812	28.9	7.04E-16	4134	-24.5	4.99E-15	7533	19.30	9.72E-09	10892	15.06	1.71E-07	14278	7.71	8.91E-03
818	25.4	4.76E-05	4135	-14.1	4.14E-04	7537	6.23	3.29E-03	10897	16.03	1.43E-03	14281	14.27	8.57E-05
822	-22.1	2.59E-03	4137	11.6	6.64E-03	7540	10.94	6.93E-04	10900	-8.41	8.46E-03	14284	-22.40	1.92E-05
825	-18.9	2.02E-03	4153	-11.0	2.24E-03	7543	-15.41	1.33E-05	10902	9.16	7.91E-03	14295	14.92	5.36E-06
826	-20.7	3.36E-04	4155	29.7	8.97E-21	7545	12.78	1.51E-04	10908	16.43	5.20E-07	14296	-21.90	7.27E-15
829	23	2.75E-11	4156	11.8	1.52E-04	7547	-12.60	1.81E-05	10911	-13.21	1.12E-05	14297	-15.30	5.47E-07
837	-11	3.39E-03	4159	21.7	9.68E-10	7548	-14.35	3.63E-06	10913	-10.83	1.92E-04	14298	19.86	1.69E-06
838	-10.4	5.18E-04	4162	-17.2	1.42E-05	7549	-18.38	1.96E-09	10917	-30.33	5.83E-15	14299	11.57	2.03E-04
839	-9.7	1.22E-03	4163	-21.2	1.10E-05	7559	25.34	1.22E-17	10923	-31.71	7.75E-10	14301	14.85	2.06E-08
840	-28.8	5.47E-12	4164	11.3	1.51E-04	7560	26.47	4.32E-18	10924	18.77	5.22E-10	14306	10.78	1.45E-03
842	-16.5	3.06E-07	4165	-26.6	5.01E-16	7563	-11.35	7.81E-03	10926	-37.48	2.09E-10	14307	14.28	2.26E-06
844	18.9	2.42E-09	4166	-27.5	2.23E-19	7564	-15.36	1.21E-07	10928	-16.95	5.82E-04	14309	24.43	3.40E-16

846	-38.3	8.70E-24	4167	14.3	5.72E-04	7565	-14.96	3.02E-03	10929	18.18	8.52E-05	14310	-11.73	1.74E-04
849	11.7	4.27E-04	4169	-16.9	8.85E-05	7568	25.73	3.08E-09	10934	-13.67	5.72E-04	14311	-13.72	4.24E-06
854	-13.2	7.55E-05	4170	14.1	9.77E-06	7569	22.69	1.87E-12	10940	-10.03	6.83E-04	14313	11.05	2.17E-04
858	-20.5	1.62E-11	4178	12.3	9.85E-03	7570	-25.76	9.85E-19	10942	19.78	2.77E-08	14319	-14.15	4.58E-03
860	16.1	7.21E-05	4187	14.8	4.67E-05	7571	18.08	2.02E-14	10943	-24.73	6.92E-08	14330	-26.03	6.14E-20
864	18.1	1.71E-09	4194	-20.9	6.14E-10	7572	15.50	1.45E-07	10947	-14.67	9.60E-04	14333	13.20	1.01E-05
865	25.8	6.91E-10	4196	27.9	6.66E-13	7573	18.07	1.01E-07	10948	-8.94	4.05E-03	14334	-20.33	9.13E-11
868	-23	9.20E-11	4197	-11.6	1.21E-04	7575	-23.29	1.80E-06	10950	23.47	6.02E-14	14344	16.40	4.41E-07
870	27.5	9.00E-19	4198	-18.4	2.63E-09	7578	-26.61	2.41E-13	10954	15.37	5.32E-03	14355	-14.41	1.61E-04
871	-9.2	4.47E-03	4202	23.2	1.63E-13	7579	-10.46	3.70E-04	10961	-13.70	7.47E-03	14365	-11.21	1.78E-04
876	-10.9	1.41E-04	4205	8.6	5.21E-03	7580	16.29	2.26E-07	10965	19.83	3.56E-11	14369	25.40	1.13E-06
879	-15.7	5.05E-06	4210	-16.3	1.12E-07	7581	-6.27	5.69E-03	10972	18.53	4.19E-03	14371	11.98	3.70E-03
882	-22.1	2.06E-11	4214	-34.7	4.05E-11	7582	-15.69	2.52E-06	10973	-39.07	5.18E-07	14377	26.93	8.71E-18
886	13.7	1.95E-04	4215	17.4	6.14E-09	7583	-14.51	2.35E-03	10977	-25.48	2.48E-15	14379	-23.44	5.63E-06
888	-16.3	4.10E-05	4219	17.2	6.13E-04	7584	15.30	5.03E-06	10980	21.45	6.14E-14	14381	-38.71	1.91E-19
890	-15	3.80E-07	4231	15.5	1.42E-06	7588	-18.02	7.08E-10	10985	-27.56	5.00E-20	14389	-10.70	4.27E-04
894	-16.1	8.53E-03	4232	18.5	4.64E-08	7594	-12.58	1.06E-04	10991	27.74	2.11E-13	14390	16.38	5.07E-06
898	-14	3.52E-04	4234	-31.1	9.81E-19	7595	12.78	4.20E-05	10992	-12.35	2.07E-04	14391	-15.52	4.13E-07
900	13	1.25E-05	4235	35.1	5.00E-05	7597	-13.20	1.03E-05	10995	-10.99	5.08E-03	14399	9.46	2.54E-03
901	-26.9	1.01E-19	4236	24.2	3.31E-07	7601	-23.31	3.10E-11	11000	-21.08	1.07E-05	14405	15.92	2.00E-05
902	-17.2	6.33E-03	4239	-25.6	2.82E-04	7605	-21.16	2.60E-10	11003	-21.69	5.82E-05	14406	-38.70	4.85E-15
905	15.2	7.11E-07	4241	23.7	6.82E-06	7611	-18.02	1.25E-09	11007	-18.36	5.42E-07	14409	6.33	8.37E-03
906	33.4	5.57E-07	4242	13.4	3.14E-05	7612	14.90	5.69E-03	11012	-20.86	2.64E-12	14411	-21.87	6.75E-14
910	-28	4.06E-04	4244	-14.5	4.69E-06	7617	20.22	1.08E-03	11013	-16.66	9.82E-06	14414	11.61	3.00E-08
913	-17.4	1.15E-06	4245	-20.5	2.11E-08	7619	17.81	7.56E-07	11015	23.24	1.30E-03	14415	-10.30	5.66E-04
915	14.1	3.35E-04	4246	-30.5	1.36E-23	7624	18.30	3.53E-05	11019	9.70	5.49E-03	14424	-26.92	1.14E-09
919	34	2.47E-10	4248	-47.7	2.97E-08	7629	17.96	1.13E-03	11029	13.80	2.38E-05	14426	-14.70	9.46E-06
928	21.4	2.41E-13	4249	12.0	1.88E-03	7630	-20.48	2.73E-03	11040	-12.84	6.57E-05	14430	12.19	1.28E-04
929	-15.6	3.50E-03	4261	-18.3	1.70E-10	7635	-11.80	3.28E-03	11047	-16.09	3.12E-07	14434	-8.36	2.07E-03
178														
932	-10.6	9.20E-03	4262	20.5	3.62E-03	7639	-15.34	8.93E-07	11060	12.45	8.06E-05	14436	8.94	4.30E-03
934	-17.5	4.19E-09	4264	-22.0	4.30E-09	7642	-15.92	6.00E-09	11065	17.41	4.71E-10	14441	10.26	5.62E-04
939	23.5	1.26E-11	4265	27.1	3.09E-11	7643	14.05	2.08E-06	11075	17.07	1.54E-03	14446	8.78	8.73E-03
944	-13	3.97E-03	4266	-29.3	7.01E-07	7644	-24.01	6.58E-17	11076	-9.88	7.16E-03	14448	-25.22	5.83E-11
948	9.3	5.81E-03	4268	-16.1	6.10E-08	7645	-21.26	7.44E-05	11077	-13.86	6.86E-03	14454	22.57	8.22E-08
949	-35.9	7.71E-31	4270	-14.4	1.89E-06	7646	-15.94	2.11E-03	11085	-15.16	3.02E-06	14458	-11.86	3.49E-04
951	-12.9	1.42E-03	4272	11.6	3.39E-04	7648	-42.32	8.23E-08	11087	15.49	6.20E-08	14460	17.87	9.76E-09
954	28.6	1.66E-21	4276	-27.9	3.26E-15	7649	-24.00	2.02E-09	11088	27.12	2.52E-22	14469	-12.39	5.74E-04
957	14.7	2.71E-04	4278	-14.1	3.85E-06	7656	9.18	3.08E-03	11090	17.25	1.53E-04	14476	27.12	1.09E-12
958	14.9	2.43E-04	4279	-12.1	1.61E-04	7657	11.42	2.56E-04	11092	11.16	3.63E-03	14478	-12.92	5.43E-04
960	-13.5	8.15E-06	4285	11.6	2.57E-04	7658	-34.39	9.73E-05	11096	26.76	5.06E-07	14479	-11.76	2.37E-03
962	23.2	1.29E-09	4294	8.0	8.39E-03	7659	-30.05	7.25E-12	11097	-24.61	1.60E-15	14484	17.03	4.65E-09
963	-26.5	1.02E-07	4297	19.8	1.41E-11	7660	36.11	3.35E-18	11101	23.14	1.58E-13	14491	-18.67	3.51E-08
964	30.9	3.81E-12	4299	-33.3	1.44E-23	7664	14.52	6.99E-04	11102	18.04	4.39E-09	14494	-25.56	1.06E-10
972	19.1	1.66E-04	4301	-25.6	6.99E-10	7665	22.89	3.05E-15	11103	12.22	4.33E-05	14498	-19.03	2.68E-05
974	-12.3	4.64E-05	4304	20.4	6.37E-04	7666	-9.45	2.10E-03	11108	-10.27	1.05E-03	14502	-19.66	3.01E-03

975	9.8	1.02E-03	4306	11.3	2.69E-03	7668	-18.91	1.39E-04	11115	-14.73	1.79E-04	14504	-30.04	4.14E-08
979	25.6	1.82E-18	4307	9.0	3.76E-03	7672	12.83	1.17E-05	11116	-15.53	1.52E-03	14523	24.86	2.55E-18
982	14.4	4.05E-05	4308	-20.0	4.67E-06	7676	-26.00	4.60E-12	11127	-16.54	2.03E-07	14524	-38.39	3.13E-19
983	-17.3	8.87E-04	4313	16.7	1.73E-08	7684	-11.81	4.57E-04	11139	-12.26	2.98E-05	14533	-9.80	5.30E-03
984	24	2.66E-13	4314	12.8	4.51E-06	7689	39.19	5.66E-36	11140	8.50	7.72E-03	14534	-13.03	1.38E-03
989	16.3	4.93E-06	4317	-9.8	8.03E-03	7690	-28.16	3.27E-21	11142	11.14	4.17E-04	14535	-12.52	1.48E-04
993	12.1	2.38E-05	4319	-16.9	7.12E-07	7691	-28.43	1.66E-21	11143	7.71	9.42E-03	14547	17.33	7.88E-03
994	-25	9.86E-17	4321	-16.2	5.22E-04	7693	-17.29	7.06E-06	11149	14.03	8.82E-06	14555	11.64	2.49E-04
998	14.5	3.73E-06	4327	14.5	2.20E-04	7696	-23.57	3.35E-04	11151	12.74	8.54E-03	14560	-26.88	4.43E-13
1003	18.8	1.44E-06	4329	-18.7	2.45E-04	7701	-23.90	5.90E-15	11153	-15.18	1.70E-06	14568	-16.91	3.40E-04
1004	-13.3	6.47E-04	4331	-9.4	2.94E-03	7702	7.70	9.73E-03	11157	-18.26	8.76E-08	14582	22.37	3.61E-13
1006	-30.4	8.35E-08	4332	-13.6	7.17E-06	7708	-11.84	8.92E-05	11159	38.71	1.01E-39	14586	-15.05	2.28E-04
1009	-20.8	1.77E-11	4333	-24.8	1.14E-09	7720	-10.41	6.95E-03	11161	-14.25	9.12E-04	14602	-8.00	8.30E-04
1010	-14.8	2.11E-05	4334	31.9	3.07E-31	7721	-38.34	9.66E-23	11166	-31.17	7.09E-25	14603	17.18	1.09E-08
1012	10.3	3.75E-03	4335	29.3	2.97E-09	7722	-44.85	4.04E-13	11172	-19.52	6.05E-12	14611	15.35	5.67E-05
1015	-18.4	1.37E-09	4337	12.7	2.91E-05	7725	9.76	1.95E-04	11173	30.86	1.52E-21	14612	-29.43	1.34E-24
1016	-23.2	2.62E-13	4343	10.2	4.15E-03	7727	18.79	2.27E-10	11177	28.16	1.28E-05	14616	-26.16	3.39E-09
1021	19.9	7.58E-09	4351	-9.1	3.78E-03	7737	-26.46	3.10E-19	11181	-27.83	1.43E-06	14625	-16.07	1.57E-05
1033	22.9	8.31E-15	4352	13.3	4.74E-06	7738	14.88	2.27E-08	11184	30.54	1.31E-21	14628	-11.87	6.34E-06
1035	-13.5	1.05E-04	4354	20.8	2.82E-13	7739	10.16	1.23E-03	11189	11.54	9.14E-05	14629	14.22	1.08E-04
1037	-24.3	1.18E-09	4358	22.0	2.27E-03	7742	-15.36	3.60E-06	11191	-23.49	5.86E-16	14630	-14.55	7.26E-06
1038	-20.3	5.60E-12	4362	-16.8	1.68E-06	7745	23.00	2.26E-14	11196	16.96	6.01E-09	14631	-21.20	1.03E-13
1042	24.8	1.62E-16	4366	17.3	4.73E-04	7747	17.28	9.30E-08	11201	-21.34	5.45E-07	14636	14.17	3.01E-03
1045	-20.7	2.61E-07	4371	12.8	1.96E-03	7748	-25.77	2.59E-04	11206	-24.26	8.11E-16	14649	25.35	1.08E-16
1046	-20.8	1.47E-04	4374	-13.6	2.78E-05	7749	-11.90	2.42E-04	11210	15.25	2.87E-03	14651	11.52	1.31E-04
1056	13.3	9.78E-06	4385	12.5	1.81E-05	7750	13.02	2.63E-03	11213	-26.99	4.51E-08	14658	13.73	2.44E-07
1057	17.2	2.21E-09	4386	-15.9	1.47E-07	7753	23.98	2.97E-11	11219	-12.64	2.08E-04	14659	15.16	4.48E-07
1058	14.2	4.52E-04	4395	11.1	3.13E-04	7755	9.70	5.23E-06	11224	11.11	9.12E-04	14663	19.66	4.55E-07
1061	-13.8	1.27E-03	4396	18.4	3.60E-10	7759	-15.09	6.97E-07	11233	-10.56	7.17E-03	14665	-33.09	4.17E-07
1063	14	9.59E-06	4398	-23.5	9.99E-14	7760	-13.11	2.56E-03	11236	-25.88	2.41E-10	14668	-15.07	1.27E-03
1065	-13.2	1.55E-05	4400	-29.5	3.19E-15	7770	9.61	7.35E-03	11239	-14.86	3.40E-04	14672	16.31	4.13E-09
1068	-18.2	1.03E-03	4401	-34.1	1.67E-22	7774	17.22	4.51E-07	11244	17.97	3.56E-10	14674	8.99	8.29E-03
1069	-18.4	7.91E-04	4405	-31.8	5.89E-11	7777	-26.68	1.88E-18	11249	-19.93	8.35E-12	14688	17.39	6.43E-06
1072	16.7	1.26E-07	4409	-10.1	3.48E-04	7779	-19.59	9.17E-03	11251	21.26	5.74E-12	14694	-18.13	3.28E-05
1074	12.8	3.53E-03	4415	-8.7	9.66E-03	7781	14.30	8.93E-06	11254	-15.45	1.88E-11	14695	-21.32	1.48E-10
1075	-21.9	9.56E-07	4417	14.8	9.23E-04	7785	-19.44	6.50E-06	11270	-11.65	3.14E-03	14699	25.09	8.31E-18
1078	12.7	5.47E-03	4420	-15.6	2.15E-06	7787	8.56	5.09E-03	11277	16.11	7.45E-07	14700	-20.19	1.83E-11
1084	17	1.34E-06	4425	25.3	6.07E-17	7788	11.49	6.06E-04	11280	23.63	6.95E-06	14703	14.77	4.03E-03
1087	17	8.99E-09	4426	-22.5	3.55E-08	7789	19.31	2.95E-08	11288	-12.14	4.53E-03	14705	-18.45	6.72E-08
1089	-12.3	4.06E-05	4430	10.1	9.22E-04	7807	-13.00	5.19E-04	11290	-13.55	2.23E-05	14709	-19.85	1.14E-03
1094	19.6	2.47E-09	4445	11.6	1.48E-03	7808	-25.99	1.63E-04	11292	9.83	7.55E-03	14712	-11.38	2.55E-03
1098	-16.4	9.95E-08	4446	-35.3	9.37E-22	7810	-23.24	2.23E-12	11294	-22.91	3.94E-07	14716	11.17	3.75E-04
1100	-16.8	1.02E-06	4453	-13.5	3.16E-07	7812	-20.89	9.42E-04	11302	11.41	6.08E-04	14722	20.27	6.04E-12
1109	-13.8	6.93E-03	4455	-10.1	5.75E-04	7813	-17.09	6.46E-03	11303	-10.25	6.48E-04	14724	10.87	2.46E-03
179														
1110	-17.1	8.98E-09	4458	-12.1	6.47E-05	7814	-13.98	2.57E-06	11306	-29.93	6.11E-29	14727	26.83	8.66E-15

1121	-12	8.81E-04	4467	18.7	1.04E-05	7815	-11.14	1.29E-03	11311	-22.17	7.10E-14	14734	-21.56	1.19E-10
1128	-12.2	1.32E-03	4476	-13.5	5.62E-06	7816	-15.40	7.72E-07	11312	20.05	5.16E-09	14736	-22.51	4.09E-04
1129	-12.7	8.59E-04	4478	-28.7	4.94E-13	7822	-33.97	4.01E-31	11314	-14.80	1.45E-06	14738	-24.53	6.69E-05
1140	19.8	3.05E-11	4480	12.5	2.29E-03	7823	16.71	1.38E-08	11315	19.78	1.23E-05	14739	9.74	9.73E-04
1142	-10	3.61E-03	4484	-29.6	5.26E-04	7825	-10.47	4.70E-04	11316	-17.13	8.12E-07	14773	-14.02	7.32E-05
1145	13.2	1.60E-05	4485	-21.2	1.17E-12	7826	17.55	1.63E-08	11321	-23.46	7.39E-12	14777	-9.32	3.65E-03
1148	16.4	3.13E-08	4486	35.4	2.77E-08	7827	-18.64	6.44E-08	11323	-21.59	8.59E-07	14781	-23.18	8.97E-06
1151	13.3	5.06E-05	4487	23.3	4.20E-17	7828	-26.48	7.81E-13	11337	19.47	1.70E-11	9461	9.23	3.89E-03
1152	29	5.93E-09	4492	-11.4	1.23E-03	7830	-12.04	1.54E-04	11340	33.17	1.03E-28	9463	8.20	7.99E-03
1154	-17	2.86E-05	4493	-23.0	3.08E-09	7831	-12.62	8.90E-05	11341	21.00	8.79E-04	9464	-13.93	1.95E-04
1157	-8.6	3.11E-03	4499	-16.9	3.87E-05	7834	-9.53	6.14E-03	11344	16.78	1.96E-08	9468	-17.61	1.75E-07
1158	14	1.16E-05	4501	8.8	7.62E-03	7837	25.05	1.10E-10	11348	-20.34	1.41E-05	9473	-11.55	1.73E-03
1161	19.4	3.38E-10	4502	16.4	1.71E-07	7843	20.68	7.66E-11	11352	13.83	1.06E-04	9476	-11.36	3.61E-04
1162	11.7	2.37E-05	4503	12.1	4.02E-05	7844	-11.74	1.73E-04	11355	-32.36	2.48E-15	9477	15.68	4.36E-06
1163	22.5	3.16E-05	4505	33.2	1.02E-30	7849	-15.94	7.00E-04	11356	-13.11	6.76E-04	9478	14.85	1.79E-03
1164	12.2	4.96E-04	4506	-13.3	3.42E-05	7850	16.71	6.82E-03	11359	-26.10	2.49E-20	9483	-19.62	2.56E-06
1165	13.8	8.60E-05	4509	-9.9	5.69E-03	7854	-37.47	1.04E-11	11360	13.15	9.85E-05	9486	-29.64	7.80E-08
1167	19.5	1.98E-10	4512	-15.6	8.41E-07	7856	-20.50	9.64E-11	11362	-25.17	5.17E-05	9487	-24.72	5.14E-05
1170	-20	7.60E-16	4515	13.0	1.33E-05	7857	-24.02	6.37E-07	11374	-10.03	1.18E-03	9491	-28.19	1.66E-07
1171	19.5	4.10E-10	4523	12.4	4.23E-05	7858	-25.62	3.99E-16	11381	-15.54	9.21E-04	9493	-19.73	4.88E-11
1172	-12.9	3.22E-05	4524	29.6	1.26E-08	7859	9.08	4.27E-03	11382	-18.88	2.41E-09	9494	-36.67	2.65E-07
1178	6.6	8.33E-03	4525	-28.2	9.40E-14	7860	-19.30	6.65E-08	11383	-8.93	2.78E-03	9498	-15.34	4.94E-07
1179	-11.8	7.47E-03	4528	-26.2	1.12E-07	7861	-11.67	2.09E-03	11384	-20.19	1.07E-10	9500	-15.39	1.96E-06
1182	15.3	2.07E-06	4529	-40.6	1.94E-07	7862	10.88	2.25E-04	11386	-42.25	2.09E-15	9506	11.21	6.99E-03
1183	22.2	5.67E-12	4530	16.0	3.04E-03	7863	23.24	2.18E-14	11390	-18.49	2.64E-07	9508	16.88	7.61E-09
1185	17	2.32E-07	4532	-12.5	8.57E-03	7869	-28.06	7.55E-05	11396	13.24	6.45E-06	9516	-9.02	9.12E-03
1186	13.6	2.19E-06	4536	13.5	1.47E-05	7871	32.37	1.16E-20	11400	-13.49	5.96E-04	9517	-22.76	3.90E-11
1187	14	2.56E-06	4537	-22.4	2.89E-08	7873	10.92	6.44E-04	11405	15.33	7.84E-05	9519	-18.72	6.54E-04
1188	14.3	1.55E-06	4539	-24.8	1.42E-03	7876	-9.34	3.56E-03	11406	-9.28	7.10E-03	9529	9.63	1.76E-03
1195	19.4	1.13E-10	4542	37.5	9.84E-38	7877	-8.00	9.15E-03	11408	-27.33	3.69E-14	9530	-14.42	7.45E-04
1201	-12.2	9.03E-05	4543	16.7	1.97E-05	7879	-16.98	6.01E-07	11412	14.05	1.27E-05	9531	-32.31	3.68E-28
1202	18.6	5.77E-03	4545	9.9	9.91E-04	7885	10.85	6.80E-03	11413	25.88	1.12E-05	9532	13.75	4.69E-03
1210	-10.6	5.36E-04	4549	29.7	6.27E-09	7889	-20.14	4.02E-11	11415	-40.56	1.80E-10	9533	-14.09	1.84E-03
1212	13.6	8.13E-03	4555	-24.5	3.34E-04	7891	-16.87	2.21E-08	11417	13.20	2.62E-05	9534	-14.04	2.19E-03
1213	17.6	1.34E-08	4562	-18.1	1.03E-09	7897	19.46	4.99E-07	11422	-15.54	1.53E-04	9538	-12.31	2.78E-03
1214	20.1	9.84E-10	4565	14.8	4.17E-04	7899	-11.31	1.28E-04	11427	-21.28	1.65E-06	9540	-16.48	8.33E-07
1222	-12.5	2.46E-05	4567	-26.5	1.85E-08	7900	-27.11	2.86E-09	11436	18.15	5.54E-03	9543	-14.33	4.02E-06
1226	-18.6	2.10E-07	4568	-6.6	7.44E-03	7901	9.95	2.29E-03	11439	17.16	1.69E-03	9544	7.50	1.33E-03
1229	-19.4	2.82E-10	4578	23.2	4.26E-16	7906	9.73	1.43E-03	11440	-14.59	7.08E-03	9548	8.39	1.62E-03
1230	19.2	8.47E-04	4580	-20.8	3.95E-08	7910	14.81	1.94E-03	11443	-11.70	7.13E-04	9552	10.65	4.26E-04
1237	-20.3	5.30E-09	4581	39.2	3.45E-36	7914	8.72	3.89E-03	11444	14.38	5.11E-06	9553	-11.20	2.97E-04
1238	11.7	2.90E-05	4582	15.9	6.94E-08	7915	8.48	4.66E-03	11446	9.61	5.88E-03	9554	-8.77	3.46E-03
1239	-28.3	1.62E-15	4583	27.3	1.38E-17	7921	-22.94	4.90E-08	11450	-21.43	1.94E-10	9556	-14.81	5.95E-03
1241	18.9	9.29E-04	4585	-16.3	2.08E-03	7927	17.06	3.09E-08	11456	9.45	2.61E-03	9557	-23.44	6.33E-14
1242	9.8	3.73E-03	4586	-15.5	6.60E-07	7932	12.41	1.24E-04	11462	27.78	3.01E-12	9558	-23.16	1.52E-13
1244	33	3.89E-31	4589	10.1	6.68E-03	7937	8.24	2.13E-03	11468	-20.06	5.97E-04	9575	28.66	2.30E-20

1251	30.6	2.70E-15	4591	-34.6	1.75E-04	7939	17.60	9.55E-09	11471	14.08	3.11E-06	9576	-30.20	1.17E-03
1252	-30.1	5.43E-18	4599	9.2	5.85E-03	7941	20.92	1.90E-08	11480	-12.38	1.29E-04	9578	15.58	2.55E-03
1255	12.6	8.75E-07	4602	25.0	3.71E-19	7942	-8.80	3.33E-03	11485	-25.32	2.51E-08	9580	-10.59	3.23E-04
1256	21.9	9.30E-11	4606	-13.0	1.03E-05	7948	-8.29	6.08E-03	11489	25.62	1.02E-06	9581	-10.34	4.42E-04
1263	-16.6	1.20E-04	4607	-12.8	1.34E-05	7949	-18.66	2.01E-07	11492	-16.75	2.31E-08	9583	-13.24	4.54E-03
1265	20	4.46E-07	4608	-20.9	3.55E-11	7950	-19.20	4.19E-10	11495	24.58	2.59E-18	9587	21.81	3.05E-13
1266	-20	1.27E-10	4612	-19.5	7.16E-04	7956	-24.88	6.45E-12	11496	-9.04	3.23E-03	9589	-9.91	1.29E-03
1267	14.4	2.08E-06	4613	16.3	2.81E-07	7959	-11.87	2.36E-04	11497	26.50	1.43E-14	9597	-15.78	9.75E-04
1268	-19.3	6.04E-04	4614	-9.2	2.05E-03	7964	15.00	1.61E-07	11499	19.03	1.55E-09	9598	-17.66	1.63E-06
1270	-12.1	9.98E-04	4616	-16.2	2.61E-07	7965	23.75	1.55E-16	11500	17.15	1.12E-03	9602	12.28	4.99E-03
1272	-29.9	1.02E-09	4619	-19.9	7.70E-11	7966	-25.19	5.13E-12	11501	8.29	8.62E-03	9612	16.00	4.53E-03
1276	-26	1.26E-12	4620	10.9	3.96E-04	7972	9.27	8.73E-03	11510	-8.87	2.89E-03	9615	-14.26	2.55E-06
1277	-16.3	1.80E-03	4621	-14.4	2.84E-05	7973	11.67	1.72E-03	11515	-14.58	7.12E-04	9617	-23.17	3.75E-09
180														
1278	-11.6	2.77E-04	4622	-18.9	4.51E-10	7974	18.58	3.33E-06	11520	-27.53	3.83E-07	9619	13.52	2.10E-04
1281	14.5	1.68E-05	4623	-15.3	1.47E-06	7981	10.28	2.55E-03	11521	22.97	1.63E-06	9624	11.14	2.39E-04
1283	15.4	1.04E-04	4627	-14.7	1.54E-03	7982	27.40	5.53E-16	11547	20.15	6.45E-09	9625	18.65	5.50E-03
1287	-38.6	1.91E-30	4629	26.4	4.66E-20	7983	8.99	6.45E-03	11549	-32.34	2.58E-15	9628	-18.24	5.99E-05
1291	15.3	1.85E-06	4634	-37.7	4.27E-22	7997	11.65	4.62E-03	11553	24.62	3.78E-15	9629	-6.78	2.27E-03
1294	17.2	8.62E-11	4638	-15.5	6.43E-06	8002	-12.89	3.41E-03	11556	30.41	6.30E-17	9630	9.93	5.21E-03
1295	14	1.15E-04	4639	-15.5	6.91E-06	8003	-10.65	9.37E-04	11569	10.34	8.61E-04	9633	-34.08	5.30E-08
1297	-25	1.78E-06	4643	9.0	6.16E-03	8006	-19.23	1.25E-09	11574	-21.13	8.54E-04	9635	9.42	1.62E-03
1299	-12.3	6.71E-03	4644	-13.5	1.76E-05	8007	-36.75	2.10E-05	11581	-8.99	3.14E-03	9636	-31.60	1.05E-15
1301	-10.4	8.03E-04	4648	13.4	8.35E-04	8009	-21.85	1.92E-11	11582	8.32	8.20E-04	9641	-10.28	2.92E-03
1303	9.3	1.39E-05	4650	8.3	4.85E-03	8012	-27.62	5.84E-09	11591	12.14	8.03E-05	9646	-15.87	2.94E-07
1305	13.3	5.24E-06	4651	27.7	1.06E-15	8013	-13.75	7.66E-03	11593	11.72	2.05E-03	9647	-41.15	6.97E-12
1306	-29.8	2.49E-16	4654	-35.5	5.48E-21	8018	26.37	5.38E-09	11594	22.39	1.88E-13	9657	14.68	1.07E-04
1307	-27.8	1.65E-09	4662	-21.9	5.56E-10	8020	-8.25	5.52E-03	11600	-20.98	1.77E-12	9660	-13.12	1.26E-04
1308	-16.1	2.68E-04	4664	25.3	7.32E-18	8021	14.65	5.04E-05	11601	-20.31	5.42E-13	9664	-11.88	2.97E-03
1311	13.2	4.06E-03	4669	-13.3	2.56E-04	8022	-12.92	1.48E-03	11602	11.28	2.50E-03	9665	-35.71	2.60E-21
1313	-26.6	7.15E-04	4670	-23.9	1.35E-10	8024	-30.44	2.93E-23	11603	13.53	2.91E-04	9670	17.24	9.83E-08
1317	-12.7	1.41E-03	4671	-21.6	1.86E-10	8025	-41.17	1.81E-13	11605	-29.71	4.39E-23	9671	13.92	1.80E-04
1320	-19.3	5.84E-09	4675	21.6	2.31E-12	8026	15.18	2.31E-03	11607	24.58	2.61E-13	9672	-24.43	5.10E-16
1327	-9.7	1.16E-03	4677	-10.7	3.85E-04	8032	-24.92	3.49E-17	11613	7.98	9.03E-03	9673	25.60	2.66E-10
1329	-12	1.69E-04	4678	17.1	1.34E-06	8037	-32.08	8.55E-13	11618	15.04	8.75E-06	9676	13.76	3.72E-06
1332	23.9	1.46E-07	4679	-31.4	3.01E-27	8039	-9.81	1.16E-03	11619	20.25	2.85E-11	9677	-11.09	1.10E-03
1333	15.9	1.75E-03	4683	-10.3	1.08E-03	8040	27.11	2.03E-11	11622	10.46	5.20E-04	9680	21.96	4.30E-13
1339	-10.6	1.09E-03	4686	11.1	1.98E-03	8046	25.28	1.72E-12	11623	7.82	9.50E-03	9682	-9.44	6.30E-04
1340	19.6	8.60E-04	4687	14.7	2.37E-06	8048	-12.23	1.48E-04	11631	7.88	9.08E-03	9685	-28.35	1.65E-11
1346	-21.5	3.45E-12	4688	8.9	4.39E-03	8054	11.55	1.78E-04	11638	-21.00	6.69E-05	9686	-15.09	5.19E-03
1348	-13.8	1.45E-03	4690	-27.9	9.54E-11	8055	23.64	7.76E-12	11639	-11.29	3.40E-03	9687	-11.36	5.07E-04
1349	-9.5	1.73E-03	4691	-19.4	7.57E-08	8062	-14.51	1.10E-04	11641	11.16	1.77E-03	9688	20.63	4.88E-12
1350	-10.2	5.05E-03	4694	-19.9	2.65E-10	8063	-15.01	5.89E-05	11647	-21.18	4.64E-04	9691	-13.92	3.58E-06
1351	-11.4	7.28E-04	4696	-28.2	1.03E-20	8064	-9.76	7.72E-03	11649	-13.77	5.36E-06	9692	11.15	8.03E-04
1354	-26.2	2.53E-11	4702	6.9	1.65E-03	8067	-10.89	4.86E-04	11652	-12.35	6.52E-03	9693	12.15	1.43E-04
1360	13.3	8.05E-04	4705	9.7	2.14E-03	8071	-10.61	4.21E-04	11659	-11.23	1.80E-04	9694	12.86	1.37E-04

1364	26.4	1.22E-20	4728	12.9	4.76E-05	8072	-10.41	5.40E-04	11680	-13.63	4.78E-06	9695	-19.06	1.16E-03
1370	-47	1.40E-11	4734	-19.2	3.58E-06	8073	22.37	1.72E-09	11684	24.05	1.79E-12	9696	-12.01	5.88E-03
1373	20.9	1.65E-05	4739	-12.9	2.94E-05	8074	16.39	1.51E-03	11686	22.66	2.64E-14	9698	27.19	3.53E-19
1378	-13.3	7.39E-03	4740	-13.0	2.56E-05	8075	-20.02	1.41E-11	11692	-15.67	1.09E-03	9699	-20.30	2.32E-08
1380	-44.2	9.30E-18	4746	13.8	1.33E-05	8084	18.30	5.26E-10	11696	-18.23	6.00E-03	9701	-10.69	5.09E-03
1385	-22.5	2.84E-13	4753	-9.1	5.08E-04	8086	8.87	5.51E-03	11701	-24.62	1.28E-13	9703	12.43	4.51E-05
1389	13	7.49E-03	4756	20.4	1.37E-13	8087	-15.17	1.02E-06	11702	10.52	9.06E-04	9707	-17.12	5.46E-08
1390	-42	1.47E-12	4757	-12.6	2.87E-05	8088	18.47	1.41E-06	11705	19.89	8.14E-10	9708	13.59	4.07E-04
1391	-10.4	4.97E-04	4758	-18.8	9.77E-08	8089	27.10	6.17E-11	11714	-13.71	2.57E-05	9711	-10.38	6.42E-06
1393	-20	3.00E-12	4760	-25.9	1.75E-13	8090	19.45	2.98E-06	11719	-12.73	8.70E-04	9712	-35.42	1.25E-05
1395	8	7.17E-03	4761	-25.7	2.34E-13	8092	-15.09	3.88E-03	11722	-10.86	2.95E-04	9714	18.50	9.22E-10
1396	-13.3	1.81E-05	4763	-15.3	3.11E-07	8094	11.64	1.44E-04	11724	-13.71	7.40E-06	9715	-16.68	2.71E-08
1397	19.5	2.72E-10	4764	18.3	4.63E-05	8097	-8.57	6.18E-03	11726	13.07	7.91E-06	9716	21.04	7.35E-12
1400	-13.6	4.86E-03	4766	-15.2	1.53E-06	8098	11.45	3.13E-04	11728	-23.67	7.99E-09	9719	-12.61	4.80E-05
1401	-27.6	6.09E-21	4770	-13.2	1.37E-05	8102	-19.27	1.53E-10	11731	8.97	4.03E-03	9722	-19.93	5.53E-09
1402	-9.8	2.73E-03	4771	-32.0	2.99E-10	8105	24.98	3.16E-13	11742	19.55	7.51E-05	9723	12.20	5.85E-03
1404	11.6	4.71E-04	4780	17.1	2.27E-08	8108	9.91	1.76E-03	11744	-14.86	7.14E-05	9725	-22.46	2.03E-12
1406	-24	1.10E-14	4781	12.5	1.47E-03	8109	9.27	3.37E-03	11748	-12.31	1.45E-03	9730	-27.17	2.84E-12
1409	10.8	4.96E-06	4786	-18.3	1.92E-06	8110	-32.15	7.07E-12	11756	9.10	2.87E-03	9732	-26.54	1.23E-07
1410	-18.2	2.84E-09	4788	12.4	3.38E-03	8111	-15.63	5.08E-07	11757	-19.95	4.17E-09	9736	-14.63	1.31E-06
1415	-17.6	2.24E-09	4789	-16.1	7.08E-07	8117	11.28	2.23E-04	11758	-14.81	6.17E-04	9746	21.64	1.71E-08
1422	-11.1	5.85E-03	4790	-23.9	1.64E-15	8119	-7.79	5.95E-03	11760	-11.22	8.17E-04	9747	-43.89	2.62E-15
1424	16.2	3.25E-06	4794	-9.7	2.10E-03	8127	22.54	1.18E-14	11767	-23.17	9.68E-05	9749	10.24	5.50E-04
1429	-24.8	2.41E-17	4796	-9.0	8.92E-04	8129	-16.30	9.04E-04	11772	24.03	3.59E-09	9757	-27.65	1.57E-03
1431	11.4	2.03E-04	4797	-15.8	2.54E-06	8133	-12.62	1.94E-05	11776	-15.34	6.70E-07	9766	14.82	4.69E-03
1433	16.1	2.30E-08	4800	-29.3	1.72E-07	8141	-18.80	2.35E-04	11779	8.85	3.41E-03	9767	-31.85	4.97E-05
1434	11.5	2.33E-05	4801	-20.5	1.45E-13	8142	-27.16	1.30E-17	11780	17.05	4.73E-07	9768	-17.14	6.12E-05
1436	-13.4	1.08E-03	4802	13.8	7.95E-06	8143	-26.59	5.24E-17	11788	-28.05	2.25E-05	9769	21.19	6.30E-05
181														
1439	24.4	2.30E-15	4803	18.2	2.34E-09	8145	-16.44	4.25E-08	11801	-21.73	1.05E-03	9771	-11.86	1.78E-04
1443	19.4	4.35E-11	4807	26.0	2.66E-11	8146	15.72	1.79E-08	11803	-17.45	3.35E-06	9774	-8.91	7.08E-03
1444	19.4	5.88E-11	4808	-13.4	1.95E-05	8147	25.19	1.10E-16	11815	17.22	1.49E-06	9777	19.00	3.77E-04
1451	26.5	2.29E-10	4814	12.3	2.42E-04	8149	25.67	2.91E-18	11818	-25.74	1.51E-08	9779	15.66	2.87E-03
1455	18.3	2.85E-04	4817	-10.1	1.22E-03	8150	27.73	2.04E-13	11819	-18.47	3.58E-05	9780	-15.98	2.87E-04
1464	20.3	4.01E-13	4821	-12.7	2.89E-03	8152	-20.00	1.39E-10	11825	11.80	9.75E-05	9781	-19.74	3.77E-08
1465	-14.8	1.25E-05	4826	14.1	1.14E-03	8158	7.64	1.70E-03	11833	-20.52	6.49E-07	9782	-22.38	3.96E-14
1467	11.5	4.59E-04	4827	20.8	3.36E-08	8160	-21.56	2.21E-12	11839	-18.21	1.95E-06	9788	12.45	3.47E-03
1468	15.9	7.07E-08	4834	-40.0	5.92E-08	8161	18.81	4.98E-10	11845	12.41	1.69E-04	9794	-12.30	1.20E-04
1472	-16.9	6.83E-08	4839	-12.1	9.84E-08	8163	-25.44	2.75E-18	11847	13.35	5.08E-05	9796	-18.98	3.32E-03
1475	-25.2	2.17E-18	4843	20.3	1.41E-11	8166	26.58	7.92E-18	11858	7.24	9.10E-03	9809	13.95	4.10E-04
1478	9.5	6.30E-03	4847	7.5	8.54E-03	8167	-11.53	3.11E-04	11862	25.35	7.80E-07	9813	13.23	9.71E-06
1480	-14.5	4.78E-03	4858	-23.9	8.13E-13	8168	-27.51	1.39E-20	11863	-18.22	1.54E-10	9815	10.73	3.64E-04
1491	19.8	1.88E-09	4859	-14.5	4.46E-06	8172	17.48	3.44E-05	11864	-9.97	9.42E-04	9817	10.56	1.10E-05
1495	15.1	2.21E-03	4863	-20.2	9.50E-12	8184	-13.27	4.21E-05	11866	-16.73	5.78E-08	9818	11.49	1.48E-06
1498	-13.3	3.23E-05	4864	-18.8	4.86E-09	8187	-10.53	5.93E-03	11873	16.18	6.82E-07	9819	-15.85	2.45E-07
1503	-14.5	1.50E-06	4870	-18.9	1.49E-08	8188	18.15	1.48E-09	11875	-31.59	2.05E-08	9820	14.16	1.97E-03

1505	27	5.38E-09	4871	-12.6	1.45E-04	8189	-14.55	2.40E-05	11888	-32.07	1.19E-10	9825	-13.88	1.06E-04
1506	-17.5	8.92E-07	4873	20.0	3.21E-08	8190	-18.79	7.05E-04	11890	-19.05	2.64E-11	9833	-20.08	3.45E-03
1507	34.3	7.27E-13	4879	-23.6	1.11E-14	8192	26.98	1.09E-16	11894	11.29	2.79E-04	9837	-15.94	5.72E-04
1512	-26.5	1.10E-03	4880	-25.6	2.22E-04	8193	25.92	3.12E-11	11895	21.73	7.95E-05	9838	-20.70	8.45E-12
1518	-9.2	7.91E-03	4887	-16.9	1.45E-03	8194	-19.47	3.11E-06	11896	-25.42	1.99E-16	9844	19.21	4.92E-05
1524	11	6.12E-04	4890	-23.4	2.84E-05	8197	-17.82	4.60E-03	11897	14.32	9.67E-06	9847	16.60	1.07E-06
1525	17.8	1.00E-04	4893	20.7	1.59E-11	8202	39.27	2.19E-05	11898	-28.55	4.69E-21	9848	18.80	3.35E-05
1530	-28.5	7.03E-20	4894	-16.1	5.64E-07	8206	-17.83	2.40E-09	11900	-30.64	3.81E-12	9851	-23.78	3.28E-05
1534	-20.8	6.85E-04	4898	21.1	4.43E-19	8207	16.26	5.67E-03	11902	-23.81	4.71E-04	9858	-7.71	6.54E-03
1535	-15.8	7.89E-03	4904	-11.1	2.11E-04	8208	10.12	1.67E-05	11906	-10.56	5.28E-03	9859	-12.27	1.32E-04
1537	15.1	9.38E-06	4905	-22.3	9.71E-06	8212	-24.08	3.02E-11	11908	16.98	1.57E-08	9860	-24.35	2.00E-09
1544	16.2	6.12E-05	4909	-10.3	2.64E-04	8219	13.89	7.95E-04	11915	-12.70	2.66E-05	9863	-20.92	4.72E-09
1548	-23.8	1.93E-17	4911	27.2	5.04E-12	8220	-22.18	1.15E-06	11920	9.08	5.39E-03	9866	-19.08	3.78E-09
1552	12.5	1.52E-05	4914	-20.3	5.49E-10	8232	-11.34	1.78E-03	11929	13.46	4.04E-08	9867	-18.10	3.24E-09
1554	14.9	1.07E-03	4919	37.5	3.23E-06	8233	-26.74	1.09E-19	11931	12.43	5.62E-05	9868	-26.58	2.60E-13
1558	26.9	1.57E-17	4920	19.4	3.75E-10	8235	-18.89	2.75E-10	11933	-10.51	1.67E-03	9869	-26.08	3.75E-11
1560	12.3	8.09E-05	4924	18.0	2.67E-09	8237	18.15	1.10E-06	11935	15.75	2.41E-05	9870	8.83	3.20E-03
1561	-15.3	9.10E-06	4927	11.6	2.27E-06	8238	18.22	7.51E-07	11936	-18.41	8.99E-11	9874	-21.90	4.39E-12
1562	11.6	6.40E-03	4929	-9.4	5.64E-03	8239	15.22	2.21E-06	11940	-20.55	2.84E-11	9876	14.49	1.12E-06
1566	-12.1	1.25E-04	4936	-30.1	5.78E-17	8240	-13.58	7.24E-05	11947	-21.99	1.56E-14	9879	8.52	4.38E-03
1571	-15.9	6.58E-07	4937	12.5	5.20E-05	8243	-24.76	4.38E-11	11950	-10.30	5.83E-06	9882	12.90	5.08E-05
1572	-17.1	7.57E-04	4938	16.2	1.61E-07	8244	-14.72	1.66E-06	11961	-23.49	2.74E-14	9884	-16.74	9.81E-03
1573	22.5	3.99E-13	4946	-8.6	3.70E-03	8246	-25.07	1.08E-03	11963	16.47	9.63E-09	9886	10.63	3.94E-03
1574	16.6	5.23E-04	4951	14.4	5.64E-06	8259	12.02	2.20E-08	11966	14.02	1.57E-03	9889	13.67	1.04E-04
1575	-15.3	7.31E-07	4957	9.8	1.09E-03	8260	25.24	2.32E-17	11976	-12.32	3.88E-03	9891	19.15	6.48E-10
1577	12.6	2.17E-03	4958	17.9	2.47E-09	8261	36.10	1.31E-27	11977	-12.76	1.02E-05	9892	-11.05	3.41E-03
1579	-11.3	9.67E-04	4960	22.3	2.54E-04	8264	-19.01	1.09E-04	11982	-23.03	2.78E-05	9894	-13.82	3.64E-06
1580	17	9.59E-09	4962	-31.8	2.71E-08	8267	-18.91	3.27E-05	11986	11.61	6.13E-04	9907	-20.56	5.58E-04
1583	-16.7	1.39E-03	4967	8.1	2.89E-03	8271	8.54	5.76E-03	11990	20.59	2.03E-03	9908	8.03	5.87E-03
1587	-36.9	2.13E-08	4973	16.0	2.08E-06	8272	13.80	3.73E-04	11998	21.24	8.12E-06	9917	-18.93	7.88E-08
1588	-15.2	3.37E-06	4976	-34.0	1.83E-11	8274	8.13	5.14E-03	11999	9.53	6.04E-03	9921	17.01	2.40E-05
1596	-15.4	1.27E-07	4977	-18.3	2.05E-05	8275	-12.91	2.69E-03	12000	-22.64	3.25E-13	9924	16.12	7.77E-08
1599	27.2	5.23E-17	4978	-23.6	1.43E-03	8276	-28.24	2.80E-21	12010	21.16	1.68E-08	9925	16.57	8.15E-08
1601	-10.4	4.02E-03	4979	7.8	9.01E-03	8277	-13.02	9.11E-03	12011	-10.09	5.71E-03	9927	19.50	1.07E-07
1603	-12.1	1.62E-03	4982	-17.8	1.09E-08	8280	-14.26	1.28E-06	12012	-16.81	8.21E-04	9932	-11.25	3.95E-03
1604	-17.1	6.13E-06	4986	-16.0	2.51E-04	8282	-14.19	3.75E-05	12013	-17.31	2.40E-08	9936	-9.26	1.79E-04
1605	-16.6	5.27E-04	4987	-32.9	1.48E-05	8283	-9.82	5.64E-03	12015	17.61	1.46E-04	9937	-10.99	4.88E-03
1607	-18.5	5.80E-05	4991	-23.4	2.72E-14	8284	-20.71	8.38E-04	12022	-25.92	1.44E-07	9945	-22.58	8.03E-13
1611	-20.5	3.69E-03	4994	-16.3	2.32E-07	8285	11.43	2.46E-04	12032	34.82	4.64E-25	9946	43.99	2.94E-43
1612	20.2	5.57E-12	4995	-16.3	9.30E-04	8287	-16.87	2.09E-10	12036	16.43	4.96E-08	9949	-19.13	4.02E-05
1614	21.3	1.60E-10	4996	-32.5	2.29E-13	8289	-8.79	2.89E-03	12043	-11.93	2.10E-04	9952	25.06	1.56E-09
1616	22.4	2.28E-13	5004	-40.5	1.41E-11	8290	-18.18	8.62E-05	12045	-24.95	1.02E-04	9956	11.59	5.97E-03
1617	-8.9	2.81E-03	5005	-40.4	1.46E-11	8293	-10.14	8.07E-04	12058	8.03	6.21E-03	9957	-24.21	4.05E-12
182														
1618	20.2	5.51E-10	5010	-19.5	2.60E-06	8300	-22.01	3.73E-10	12059	-14.31	4.25E-03	9959	21.96	4.30E-13
1620	-18	1.96E-09	5013	9.5	1.02E-03	8308	21.29	7.36E-04	12060	18.86	6.84E-06	9961	20.06	4.19E-12

1621	-10.7	1.80E-04	5016	-17.7	1.71E-12	8312	8.35	5.18E-03	12064	8.41	5.49E-03	9962	-15.65	6.55E-07
1622	12.1	2.61E-04	5025	33.2	1.90E-31	8318	-22.98	2.64E-13	12065	-16.85	7.96E-04	9964	14.78	2.02E-04
1623	26.9	4.23E-21	5028	-10.4	2.11E-04	8321	-23.53	2.20E-06	12066	23.46	6.37E-15	9967	-11.34	6.92E-04
1625	31.5	9.61E-28	5030	-9.2	1.92E-03	8324	10.64	7.19E-04	12067	-11.28	6.57E-03	9973	-22.94	1.63E-08
1628	-17.7	5.18E-07	5034	8.3	9.49E-03	8329	-22.03	4.88E-03	12073	-29.21	4.85E-11	9975	-8.88	3.29E-04
1629	-17.7	5.32E-07	5036	14.7	3.80E-06	8330	11.49	3.20E-05	12076	17.47	6.67E-09	9976	8.65	5.42E-03
1630	-19.6	2.30E-09	5037	-10.7	4.02E-04	8332	-19.67	3.34E-07	12086	-11.54	2.42E-04	9981	-24.15	9.17E-16
1634	9.7	6.53E-03	5044	-17.3	5.89E-05	8333	12.79	3.68E-05	12087	6.19	4.64E-03	9982	-12.20	3.88E-05
1635	-20.7	8.91E-13	5046	-10.5	5.07E-04	8334	-10.26	4.51E-03	12110	-23.39	9.35E-05	9989	17.77	9.18E-07
1636	-27.1	2.34E-06	5061	-23.7	7.78E-06	8336	-17.47	4.97E-06	12117	14.24	1.31E-03	9992	-26.01	7.19E-08
1637	21.3	3.93E-11	5063	-22.3	1.62E-05	8340	-19.68	2.26E-06	12118	-16.27	2.63E-03	9993	-7.96	2.41E-04
1639	9.3	5.42E-03	5066	-8.7	3.20E-03	8341	10.43	7.51E-04	12121	18.05	1.55E-08	9994	11.11	1.61E-04
1640	-23.9	7.79E-11	5069	12.8	8.28E-05	8343	14.49	1.94E-05	12126	12.17	2.93E-05	9995	25.36	2.97E-18
1642	20.1	1.18E-09	5070	21.3	9.19E-09	8345	9.14	3.60E-03	12127	12.95	1.44E-03	10006	-16.89	3.72E-08
1643	19.5	6.01E-08	5071	12.4	2.17E-05	8348	10.71	6.20E-03	12130	-41.05	7.53E-07	10010	-12.29	7.08E-05
1644	-31.8	2.78E-12	5074	-26.5	2.87E-05	8349	-12.25	6.73E-04	12131	-13.26	7.04E-03	10011	-26.13	5.00E-17
1650	-17.6	1.05E-06	5078	-13.2	9.29E-08	8351	25.05	7.57E-18	12137	11.62	6.03E-04	10020	9.39	6.62E-04
1652	9.1	8.33E-03	5079	23.2	1.68E-13	8353	-19.75	3.82E-11	12151	-16.71	3.43E-04	10021	-12.50	2.47E-04
1653	24.5	2.14E-18	5083	17.7	6.44E-08	8354	-17.29	5.90E-04	12154	-18.70	5.09E-10	6186	18.20	2.11E-07
1662	-23.4	1.98E-05	5086	20.7	2.53E-13	8358	-19.34	4.27E-08	12162	-7.60	9.71E-03	6187	12.90	2.67E-04
1663	-23.4	4.30E-07	5088	6.1	3.79E-03	8359	8.06	8.73E-03	12166	-24.08	1.21E-07	6191	-18.60	5.22E-03
1669	11.6	4.95E-05	5093	-10.5	6.42E-04	8361	11.69	1.20E-04	12168	12.41	2.49E-04	6192	-11.00	2.46E-03
1673	-13.2	8.27E-03	5094	15.0	1.60E-03	8362	-16.49	9.49E-05	12170	-23.31	6.72E-09	6195	-21.40	1.33E-11
1677	23.4	8.32E-14	5095	-14.0	9.67E-04	8363	-13.06	2.20E-03	12174	-36.19	3.46E-38	6197	15.60	3.56E-05
1681	23.8	2.76E-13	5106	-22.3	1.11E-05	8365	-15.44	4.10E-06	12175	11.53	2.16E-04	6198	15.50	4.10E-05
1684	21.7	2.65E-09	5107	-18.7	1.79E-04	8366	-15.36	4.61E-06	12186	22.90	5.65E-14	6200	14.20	2.00E-04
1686	20.1	7.86E-12	5108	14.6	5.07E-05	8367	-10.18	2.60E-05	12187	-12.91	2.63E-05	6201	-8.90	3.75E-03
1691	10.3	6.54E-04	5109	10.0	7.66E-03	8368	-15.36	2.63E-07	12190	-25.11	1.13E-15	6204	-42.40	2.90E-19
1696	-35.1	5.61E-07	5111	-23.7	2.75E-03	8374	-10.04	8.03E-04	12194	-22.38	2.15E-06	6214	27.10	1.55E-18
1710	-20.4	5.27E-11	5114	16.8	6.07E-05	8377	15.05	2.17E-06	12200	17.30	5.93E-07	6219	18.40	3.85E-08
1711	10.9	6.60E-03	5117	32.5	2.71E-07	8384	-29.36	9.25E-07	12205	15.94	8.11E-03	6221	23.50	2.12E-09
1717	-13.7	1.97E-03	5122	-29.0	5.92E-10	8386	7.94	6.96E-03	12207	-19.49	4.92E-05	6225	8.00	8.41E-03
1730	17.7	5.31E-09	5124	-28.7	4.53E-20	8387	19.66	1.28E-07	12208	9.51	1.27E-03	6229	-16.10	4.37E-12
1731	-28.5	9.05E-22	5125	20.5	5.32E-12	8388	13.95	2.36E-06	12210	10.17	2.91E-03	6230	23.20	1.14E-15
1737	9.5	9.86E-03	5133	-44.9	1.33E-16	8389	-25.20	5.81E-05	12214	10.19	5.87E-03	6232	-10.40	1.22E-04
1740	-20.9	1.43E-10	5134	-17.1	4.76E-09	8391	-19.69	1.24E-10	12215	-21.31	2.18E-04	6233	10.70	1.12E-03
1741	21.6	6.62E-10	5138	-15.9	2.14E-07	8395	-19.06	5.25E-11	12219	-8.70	4.67E-03	6235	-23.30	3.01E-04
1743	-43.4	8.56E-13	5148	-27.5	1.20E-14	8397	11.74	2.76E-04	12228	-15.74	1.03E-03	6240	-12.30	2.58E-04
1744	18.6	5.27E-07	5155	-28.8	9.02E-05	8398	18.20	1.84E-09	12230	34.68	7.95E-09	6241	10.00	1.27E-04
1745	18.8	1.73E-07	5163	-9.5	3.36E-03	8402	-15.13	8.33E-05	12232	24.95	1.68E-16	6242	-14.20	2.58E-03
1751	25.9	2.46E-18	5164	-19.5	1.04E-10	8420	16.62	7.11E-09	12235	-24.60	5.85E-09	6245	37.50	4.14E-34
1752	33.7	1.99E-23	5165	10.9	2.80E-03	8421	-21.77	9.09E-10	12241	-31.22	2.52E-10	6246	-11.70	1.98E-03
1753	20.8	2.62E-03	5170	14.5	1.08E-06	8423	-21.32	1.38E-10	12242	-16.59	6.79E-09	6248	-24.80	2.24E-05
1757	-13.2	4.99E-04	5172	-25.7	4.58E-19	8425	-26.43	1.23E-18	12245	-16.19	2.47E-07	6249	30.00	4.01E-24
1758	16.7	1.56E-03	5175	-11.0	9.24E-03	8426	-22.38	8.11E-11	12249	14.74	1.50E-06	6250	-28.40	1.43E-21
1760	13.5	8.58E-05	5176	-35.9	2.19E-06	8430	23.31	4.86E-05	12250	-19.49	4.25E-09	6253	-18.60	4.45E-10

1763	13.5	2.80E-04	5177	-9.1	1.95E-03	8431	-10.81	5.47E-04	12254	-12.84	5.17E-03	6257	-21.70	5.65E-05
1764	-15	2.65E-06	5178	19.1	3.51E-05	8433	-24.16	1.41E-12	12260	-16.80	4.55E-04	6258	-32.80	3.10E-16
1766	15.3	9.64E-03	5179	-19.6	1.00E-03	8434	-28.72	2.52E-04	12261	-13.89	1.94E-05	6261	11.20	1.51E-06
1768	-11.1	7.77E-03	5185	22.9	8.26E-10	8436	-11.87	9.83E-04	12275	10.79	7.54E-04	6263	-13.70	2.48E-05
1777	-10.9	9.25E-03	5198	13.9	3.74E-03	8446	-8.78	3.69E-03	12280	10.06	5.22E-04	6265	-11.00	6.60E-04
1778	-20.5	7.00E-06	5201	-14.9	2.95E-06	8451	-16.94	6.91E-07	12284	9.42	1.65E-03	6266	-23.20	7.64E-05
1779	11.3	5.47E-04	5204	-11.8	1.27E-04	8454	-32.21	2.06E-25	12287	-21.67	1.68E-05	6267	-37.30	1.19E-14
1780	28.2	6.31E-23	5205	-13.1	1.50E-03	8456	9.65	1.43E-03	12288	24.72	5.18E-15	6268	10.70	2.59E-03
1781	16.2	4.91E-05	5207	27.0	6.82E-11	8457	19.12	1.68E-04	12291	24.96	2.39E-19	6271	-30.70	3.62E-07
1782	16.1	4.99E-05	5211	16.2	2.65E-05	8460	-13.22	1.38E-04	12292	20.30	4.19E-12	6272	-15.40	3.08E-07
1784	25	1.34E-05	5212	-8.9	4.84E-03	8463	-19.87	2.03E-03	12293	-31.50	5.44E-12	6284	15.40	9.31E-06
1788	-18.8	1.15E-08	5220	-8.2	8.25E-03	8466	27.53	4.68E-17	12294	-22.28	2.34E-06	6285	20.60	2.37E-14
183														
1790	-19.7	6.63E-19	5221	-11.7	3.98E-04	8467	18.87	3.14E-10	12295	-18.13	3.27E-06	6286	-24.90	1.28E-06
1792	13.3	2.61E-03	5223	9.4	1.65E-03	8470	-8.76	4.50E-03	12296	13.83	1.28E-05	6291	12.40	3.50E-03
1794	10.1	1.63E-03	5229	-13.2	7.98E-03	8471	-8.53	9.74E-03	12300	-19.42	4.16E-03	6292	-15.70	5.34E-03
1799	14.4	1.62E-06	5230	12.8	1.85E-05	8473	8.40	3.40E-03	12304	-22.03	2.70E-14	6294	-22.80	4.76E-13
1803	-30.7	4.17E-12	5231	16.2	1.89E-06	8476	-8.65	3.41E-03	12308	9.01	5.61E-03	6297	20.30	3.22E-09
1804	-37.5	3.04E-11	5232	18.8	3.40E-05	8477	-8.44	4.27E-03	12310	32.72	6.64E-10	6303	25.30	5.35E-18
1805	-15.5	8.17E-05	5235	-16.9	6.48E-06	8478	-8.52	4.11E-03	12322	9.90	2.05E-04	6304	25.90	6.98E-19
1806	15	5.76E-03	5237	18.9	1.22E-10	8484	-13.10	1.52E-03	12327	-23.57	2.26E-12	6305	12.00	4.21E-03
1813	9	2.56E-03	5239	-16.3	1.11E-06	8486	11.60	8.09E-04	12330	8.54	8.90E-03	6307	-15.00	1.06E-05
1814	13.6	9.64E-03	5241	-13.7	8.22E-06	8488	14.05	1.01E-08	12334	-10.86	6.26E-04	6310	34.10	4.75E-35
1815	-21.8	2.17E-05	5242	8.2	1.88E-03	8489	-10.41	8.28E-03	12336	26.05	1.07E-18	6315	10.30	1.03E-03
1820	-22.8	4.47E-09	5247	11.4	1.88E-04	8490	-25.29	2.79E-05	12343	-30.52	1.68E-08	6321	22.40	6.45E-10
1823	10	2.22E-03	5251	-12.1	5.64E-08	8501	32.89	6.87E-11	12344	15.94	4.67E-07	6325	16.20	4.09E-06
1827	-30.5	2.94E-30	5252	-12.6	1.57E-08	8503	-17.60	6.66E-05	12356	-17.59	1.78E-07	6328	-16.20	5.48E-08
1829	-24.2	7.08E-08	5253	8.0	6.60E-03	8508	-18.93	2.24E-10	12358	-25.89	2.84E-18	6330	-19.50	7.64E-08
1836	-16.3	8.07E-06	5255	11.1	3.22E-04	8512	-28.98	2.23E-05	12365	-16.02	5.51E-07	6333	15.10	1.30E-06
1837	12.1	7.80E-05	5258	35.4	2.09E-07	8514	-17.15	4.30E-04	12368	23.31	1.45E-17	6337	-30.80	9.00E-24
1843	-21.1	3.19E-09	5261	-23.3	7.73E-14	8521	9.60	1.45E-03	12371	11.70	9.55E-04	6340	-21.70	7.80E-07
1846	-23.3	3.66E-05	5262	13.1	7.54E-03	8529	-24.05	8.58E-05	12376	15.16	1.62E-06	6345	13.70	8.28E-06
1847	-16.3	5.58E-06	5272	10.1	8.43E-04	8537	-9.34	1.73E-03	12381	-16.32	5.64E-05	6348	9.30	2.59E-03
1851	-12.7	1.80E-05	5273	-14.5	2.28E-06	8539	17.56	3.40E-09	12391	-17.69	2.21E-04	6349	-9.60	1.55E-03
1858	-15.8	9.20E-08	5274	-14.6	2.21E-06	8540	8.71	5.22E-03	12393	23.57	2.04E-15	6352	-39.20	1.01E-10
1862	-25.3	9.83E-16	5275	-18.5	1.30E-09	8545	8.33	9.34E-03	12394	8.18	6.81E-03	6358	25.20	6.57E-17
1864	-20.4	4.85E-09	5276	-20.5	5.82E-03	8546	7.61	9.60E-03	12409	18.73	2.25E-10	6359	-18.90	1.89E-06
1865	15.3	3.25E-06	5279	-17.7	1.62E-09	8547	-17.96	6.48E-04	12411	22.75	3.55E-06	6360	-26.30	9.81E-05
1867	-17.2	1.23E-04	5280	25.3	1.17E-07	8550	-12.70	4.77E-05	12412	-10.69	4.16E-04	6365	-11.30	1.52E-04
1869	22.5	1.52E-12	5285	-29.8	9.00E-20	8554	-23.79	8.92E-07	12415	18.94	3.81E-04	6366	-18.30	1.50E-06
1870	-23.7	2.24E-03	5291	32.8	9.09E-07	8557	-22.37	2.41E-05	12423	-15.02	5.93E-06	6372	11.80	4.06E-05
1871	-9.3	3.65E-03	5293	-21.7	2.60E-06	8559	21.28	3.70E-13	12433	-11.08	1.54E-04	6373	30.80	1.39E-26
1875	-18.1	2.47E-04	5294	23.6	7.89E-06	8560	10.94	2.66E-04	12443	14.71	4.13E-06	6374	13.80	1.01E-03
1876	20.6	2.34E-11	5295	-18.3	1.46E-04	8562	-11.70	1.02E-04	12444	-20.97	1.42E-05	6375	18.90	1.28E-07
1879	-27.4	2.20E-14	5302	-25.8	9.53E-19	8563	15.28	2.72E-05	12446	17.93	5.91E-04	6376	27.00	5.88E-19
1884	-29.3	3.71E-17	5308	-27.5	1.93E-20	8566	10.21	7.43E-04	12457	-10.56	9.97E-03	6377	27.60	7.41E-09

1889	-10	8.36E-04	5310	-17.4	1.78E-03	8574	13.68	3.58E-05	12458	9.26	2.40E-03	6379	-11.90	2.10E-03
1890	30.4	4.47E-14	5316	13.2	3.12E-04	8576	-32.10	3.29E-22	12460	-9.78	6.87E-03	6381	-22.50	1.37E-14
1892	13.5	1.77E-05	5317	19.9	1.81E-10	8577	12.37	3.44E-05	12462	19.92	5.86E-12	6385	-8.10	2.88E-03
1893	15.7	5.41E-06	5319	-13.0	5.61E-03	8578	15.52	1.65E-03	12465	-43.27	1.59E-15	6394	14.90	2.95E-06
1896	15	1.10E-06	5320	10.1	4.10E-03	8579	-25.21	5.04E-09	12466	-17.98	4.20E-05	6397	-24.80	1.06E-09
1905	-22.1	2.03E-04	5321	13.9	1.90E-05	8580	-11.90	3.21E-03	12469	-22.27	1.58E-05	6398	-26.40	8.33E-13
1906	-19	3.38E-06	5322	19.9	6.70E-04	8589	-24.83	8.27E-09	12471	-10.59	3.30E-03	6400	-9.10	4.39E-03
1907	-16.4	1.72E-06	5323	-13.2	8.84E-06	8590	14.64	6.09E-05	12477	-32.35	2.51E-15	6402	-13.70	1.88E-03
1910	16.9	7.14E-04	5326	-10.1	1.02E-03	8591	-15.16	8.96E-06	12483	9.36	7.07E-03	6405	-9.40	2.76E-03
1914	10	8.85E-04	5329	-31.6	3.28E-08	8592	-12.70	1.69E-03	12489	-15.96	8.72E-05	6408	22.90	2.83E-13
1919	-18.9	1.12E-03	5335	-10.4	6.88E-04	8593	-12.21	2.24E-04	12491	8.95	3.35E-03	6411	-21.70	4.44E-13
1920	12.1	1.86E-03	5336	12.1	7.41E-05	8596	-18.20	4.53E-07	12493	-18.58	1.76E-09	6415	-27.60	2.79E-19
1922	-24	6.95E-17	5340	-40.9	4.80E-08	8600	14.33	2.50E-05	12496	18.80	1.37E-06	6416	20.50	2.60E-11
1924	-10.7	2.39E-03	5343	9.6	9.61E-03	8601	-10.37	2.73E-03	12498	26.67	6.01E-21	6417	19.00	6.45E-09
1925	-12.3	5.67E-04	5344	23.4	3.88E-17	8604	-19.48	9.08E-11	12499	17.25	1.72E-08	6419	-17.80	3.00E-04
1926	22.6	1.22E-12	5345	35.8	5.28E-38	8607	-9.74	1.15E-03	12506	20.72	2.14E-06	6420	-18.70	1.14E-10
1927	-21.5	1.04E-06	5348	22.0	1.51E-08	8611	-26.17	2.06E-19	12509	-27.67	1.24E-10	6431	-34.20	2.41E-05
1928	-31.8	5.46E-26	5350	19.2	2.34E-07	8613	-27.81	3.77E-15	12510	-23.25	1.68E-10	6433	-9.20	2.62E-03
1929	14.8	6.25E-07	5353	21.7	4.44E-14	8614	-16.81	2.39E-06	12519	-16.53	1.04E-06	6434	18.80	2.86E-10
1930	15	4.64E-07	5355	12.4	2.70E-05	8617	23.88	1.54E-07	12521	26.21	2.70E-18	6436	17.70	5.57E-09
1931	24	1.54E-06	5360	11.4	6.62E-03	8621	-18.29	1.03E-03	12522	-10.88	4.85E-04	6438	15.00	2.07E-08
1932	-33.7	1.29E-11	5361	-11.3	6.13E-03	8622	17.75	4.93E-04	12524	23.77	8.37E-14	6440	10.80	3.17E-04
1933	14.7	2.64E-06	5363	-13.1	1.07E-04	8623	-9.87	5.54E-03	12529	14.54	2.83E-06	6441	23.20	1.29E-03
1934	23.2	3.75E-05	5367	-14.4	1.41E-06	8624	17.39	1.21E-06	12534	-15.21	2.30E-04	6451	-11.10	4.36E-04
1938	-25.5	2.91E-12	5368	12.5	3.59E-04	8627	-12.77	7.61E-04	12536	-22.07	1.47E-13	6452	-12.10	8.46E-04
1939	31.7	1.36E-31	5369	-17.2	7.60E-06	8630	11.21	9.27E-03	12544	25.89	5.12E-12	6459	11.00	1.74E-04
1941	24.1	5.76E-14	5377	14.3	6.31E-04	8636	22.81	9.71E-10	12546	15.12	3.02E-07	6461	-28.30	1.10E-14
184														
1944	16.4	3.99E-10	5379	-28.3	5.26E-20	8646	12.73	2.12E-03	12547	-14.98	2.00E-06	6463	-11.80	7.39E-05
1947	16.8	1.90E-04	5383	18.4	2.05E-03	8647	-14.75	2.84E-05	12549	17.21	3.24E-05	6464	-12.00	1.51E-04
1952	-13.1	4.55E-03	5384	11.8	1.59E-04	8650	-27.33	6.93E-09	12552	-11.44	7.40E-03	6467	-8.10	7.77E-03
1962	-12.7	3.10E-05	5387	-15.3	2.36E-05	8651	-18.40	9.43E-06	12557	-25.81	6.87E-13	6468	-13.50	6.92E-03
1963	-26.1	5.97E-05	5390	6.1	4.80E-03	8654	10.94	3.00E-03	12563	-9.63	2.25E-03	6471	15.70	1.02E-03
1969	16.3	1.60E-05	5397	13.0	4.11E-05	8656	12.56	1.42E-04	12566	-11.83	5.92E-04	6473	-13.10	1.33E-03
1971	18.3	1.31E-10	5399	-24.1	1.35E-12	8658	14.33	4.35E-03	12577	-14.95	1.05E-06	6476	-25.00	1.66E-05
1974	-17.9	2.94E-09	5402	-10.8	5.03E-07	8659	-13.23	7.75E-03	12584	-16.53	1.27E-05	6477	28.70	2.14E-07
1978	-27.3	4.97E-09	5404	-12.3	5.72E-06	8662	-23.86	1.46E-03	12590	-43.32	1.51E-15	6479	-10.70	4.38E-04
1980	20.8	7.07E-09	5406	-8.4	7.27E-03	8664	26.65	1.76E-10	12591	-16.40	4.54E-07	6480	-15.20	1.10E-04
1981	19.5	3.92E-09	5408	14.6	3.57E-03	8668	-11.14	2.99E-03	12594	17.60	2.02E-06	6485	-24.20	5.70E-09
1988	-22.9	4.77E-12	5412	-14.6	9.37E-06	8674	-12.45	2.13E-08	12597	-15.43	9.17E-07	6487	11.80	8.57E-05
1990	-29.3	1.39E-09	5413	14.9	1.46E-06	8675	-16.01	7.10E-07	12598	-27.71	5.33E-15	6493	-30.50	2.81E-05
1996	32.6	2.44E-11	5414	-14.2	3.97E-06	8676	-24.09	1.10E-15	12602	-12.17	1.02E-04	6498	-20.10	2.68E-12
1997	20.8	1.30E-03	5415	-21.0	5.23E-03	8679	11.44	8.37E-05	12605	-16.22	4.36E-08	6499	-18.30	7.01E-03
1999	10.2	2.68E-04	5417	20.5	5.88E-07	8680	-12.06	1.62E-03	12610	-35.54	6.18E-08	6505	-18.80	8.73E-10
2002	-53.1	2.49E-13	5419	15.9	1.26E-07	8683	-35.39	1.75E-20	12613	-15.36	1.67E-05	6509	-11.30	1.19E-04
2003	-11.8	8.12E-05	5426	-12.6	1.81E-04	8685	-22.37	1.30E-05	12614	-18.02	2.92E-06	6515	31.00	3.61E-10

2004	24.5	8.19E-08	5427	-13.0	1.09E-04	8686	10.37	1.92E-04	12617	-12.61	2.35E-03	6521	-10.00	3.57E-03
2007	-13.5	2.31E-04	5429	26.5	1.93E-13	8689	10.30	1.39E-03	12623	-19.06	1.26E-09	6523	-20.20	1.19E-16
2009	-9.1	2.13E-03	5430	-29.8	3.48E-05	8690	-20.89	4.98E-09	12625	8.57	2.60E-03	6529	-13.30	2.49E-03
2010	18.1	2.40E-09	5431	-19.2	3.92E-03	8693	-39.52	8.97E-28	12626	-10.04	3.31E-03	6530	-11.10	1.35E-04
2013	-15.1	3.32E-06	5432	33.3	5.87E-33	8694	18.64	1.55E-07	12627	-24.06	1.32E-04	6531	13.80	4.83E-04
2015	-25.1	8.00E-08	5435	11.3	2.30E-04	8699	25.63	3.20E-18	12630	17.52	5.80E-05	6533	-12.40	1.97E-05
2017	-17.6	1.80E-06	5439	-18.8	1.55E-04	8700	28.01	5.49E-14	12636	-18.22	2.59E-06	6535	-16.30	6.64E-09
2018	17.8	4.93E-09	5446	20.4	6.47E-12	8703	11.66	3.69E-03	12644	-23.45	9.42E-13	6540	-26.20	1.28E-16
2019	18.8	8.79E-10	5448	31.4	1.77E-07	8704	-18.90	8.92E-05	12649	-22.80	1.78E-06	6544	15.80	1.88E-08
2020	-11.9	3.79E-03	5451	-14.3	3.58E-05	8705	-23.55	1.52E-06	12651	-16.88	5.60E-04	6545	14.20	4.16E-04
2026	-10.1	3.56E-04	5453	-21.2	5.31E-05	8707	-25.81	1.18E-07	12652	-22.44	5.86E-04	6549	-12.30	3.00E-04
2035	-9.7	4.64E-04	5456	-16.0	9.65E-03	8708	-25.94	1.50E-07	12656	-34.15	2.72E-23	6550	-10.90	6.95E-05
2040	12.1	2.87E-03	5460	-13.1	6.07E-03	8710	-38.78	7.11E-22	12657	21.87	1.97E-09	6551	-29.50	9.71E-08
2043	-13	1.35E-04	5461	-18.2	3.25E-05	8715	-22.52	5.02E-13	12662	14.94	1.27E-04	6555	18.40	2.42E-09
2044	-21.7	3.48E-10	5463	-16.4	1.18E-08	8717	-17.11	3.23E-03	12665	11.30	7.62E-03	6561	-20.80	2.84E-03
2045	15.7	9.91E-08	5465	8.9	5.95E-03	8721	8.25	8.59E-04	12666	-13.80	7.05E-04	6564	12.00	5.53E-03
2046	-14.8	3.51E-06	5466	-9.4	2.22E-03	8724	27.98	3.35E-13	12668	-15.71	9.88E-06	6565	17.00	4.13E-08
2049	26.5	8.41E-19	5470	-23.4	6.33E-13	8726	-9.98	5.55E-03	12673	-28.26	9.68E-21	6566	-22.00	1.19E-06
2053	-8.6	5.90E-03	5473	-14.8	2.67E-06	8728	-39.99	6.22E-30	12674	21.57	2.34E-13	6568	-26.20	1.72E-21
2056	-12	5.54E-05	5480	15.2	1.54E-05	8729	-18.68	7.55E-04	12675	-15.08	1.58E-05	6571	-37.70	1.20E-11
2059	24.4	1.12E-11	5482	24.4	1.38E-03	8732	8.75	4.11E-03	12676	-14.52	4.64E-05	6573	-25.70	2.11E-03
2071	19.9	5.59E-05	5483	-13.5	1.94E-05	8733	-21.62	7.12E-11	12677	-15.31	7.04E-05	6576	30.00	6.53E-06
2072	-19.3	3.07E-05	5489	-19.8	1.11E-10	8740	16.24	2.61E-11	12680	-15.65	1.68E-03	6580	-17.60	5.20E-06
2075	-12.3	1.26E-04	5491	20.7	1.87E-11	8744	-11.55	6.54E-04	12681	-11.97	2.32E-03	6582	18.00	9.42E-09
2077	21.3	3.31E-17	5493	-7.9	9.54E-03	8747	11.10	2.30E-04	12684	-9.85	5.90E-03	6587	11.80	6.49E-06
2078	-9.9	9.33E-04	5494	-10.1	7.31E-04	8749	13.75	1.36E-04	12685	-17.53	3.11E-06	6600	10.00	4.77E-03
2080	-9	4.70E-03	5495	18.7	1.42E-05	8751	-12.25	8.08E-06	12687	16.17	4.50E-04	6601	-24.90	1.21E-11
2088	11.2	6.01E-04	5499	16.9	2.60E-07	8752	19.01	7.47E-04	12688	-13.78	2.90E-04	6606	30.90	1.09E-07
2089	-15.7	6.11E-03	5501	25.7	1.52E-18	8756	14.94	4.43E-07	12690	13.26	1.05E-03	6607	-16.60	1.00E-07
2090	-16.3	1.21E-07	5502	25.6	2.22E-18	8757	-13.79	4.97E-05	12691	10.37	1.10E-03	6609	-13.80	3.98E-04
2092	-16.2	1.12E-04	5503	-16.9	1.44E-03	8759	-23.24	4.78E-05	12693	12.90	1.88E-05	6617	17.10	2.43E-03
2093	-18.9	2.92E-18	5505	-41.0	1.15E-12	8764	-18.59	1.07E-03	12705	-11.65	1.95E-04	6619	-17.30	1.45E-08
2094	-14.4	2.91E-06	5509	23.9	9.84E-10	8766	9.16	2.98E-03	12706	23.81	9.70E-16	6626	-26.00	1.03E-14
2096	-17.8	1.35E-09	5512	-22.6	1.34E-08	8767	-24.86	2.96E-11	12716	15.64	1.59E-06	6630	-10.40	7.52E-03
2098	18.2	1.14E-04	5513	-15.2	3.47E-06	8773	-18.65	1.59E-09	12718	-19.25	7.41E-05	6633	-18.40	2.35E-08
2101	-17.7	4.90E-07	5514	18.5	4.35E-03	8774	13.81	4.49E-06	12720	8.98	5.67E-03	6639	20.50	1.65E-11
2107	33.3	5.57E-16	5520	14.5	8.19E-06	8780	15.68	7.33E-04	12725	-30.06	1.29E-19	6640	-18.30	1.98E-06
2110	23.6	3.78E-17	5522	-22.7	1.56E-13	8782	8.79	3.55E-03	12732	14.70	2.02E-06	6643	17.60	1.43E-09
2114	-16.5	1.69E-03	5523	-28.0	2.40E-09	8785	-29.66	3.70E-04	12746	15.29	1.05E-07	6648	-31.10	1.49E-07
2115	-19	2.12E-03	5524	-10.5	2.70E-03	8786	-8.94	4.10E-03	12747	-22.05	7.09E-08	6658	-8.60	3.58E-03
2116	-26	1.39E-05	5526	13.5	1.00E-03	8792	-29.26	1.15E-08	12756	-20.69	3.42E-08	6659	22.00	3.82E-13
2118	22	8.25E-10	5527	19.0	4.53E-11	8793	9.78	8.05E-03	12760	-11.73	6.33E-05	6660	-23.80	1.43E-11
185														
2121	16.7	6.18E-05	5529	-16.7	1.31E-08	8795	-12.54	7.23E-06	12781	-13.95	5.20E-04	6669	17.70	5.65E-07
2123	18.7	9.08E-07	5535	12.9	4.58E-04	8796	28.56	1.86E-04	12786	16.26	6.72E-07	6671	-26.70	1.97E-17
2126	20.3	9.37E-10	5536	-11.0	2.61E-04	8799	10.40	3.41E-03	12788	-14.47	8.15E-03	6672	-8.90	1.22E-03

2131	-19.8	5.93E-05	5539	-9.9	9.02E-03	8800	25.86	1.04E-08	12795	19.79	5.47E-11	6676	-31.50	2.21E-19
2133	18.6	2.87E-08	5540	11.4	2.95E-03	8801	-23.81	9.04E-08	12798	-10.81	2.09E-04	6678	14.90	1.69E-03
2134	14.2	2.12E-05	5546	-11.9	1.32E-04	8804	-7.23	7.87E-03	12799	23.98	1.73E-12	6679	-9.40	2.03E-03
2136	10.8	7.47E-03	5551	15.0	2.24E-05	8805	-21.97	7.95E-14	12804	-46.66	1.87E-06	6681	17.40	4.42E-09
2137	8.9	7.31E-05	5552	-10.5	5.09E-04	8808	16.54	1.34E-08	12821	-15.38	1.50E-03	6683	-14.50	8.36E-06
2140	15.4	8.01E-05	5553	13.1	1.11E-03	8810	-7.61	7.85E-03	12826	14.56	4.10E-04	6684	14.50	3.92E-04
2141	6.1	4.80E-03	5554	-18.8	1.49E-04	8812	21.76	5.05E-04	12827	-14.60	4.48E-03	6685	-26.10	9.34E-10
2145	-10.5	6.36E-04	5555	-14.4	9.50E-04	8814	-10.38	7.07E-03	12828	-11.94	3.37E-04	6690	-31.90	2.69E-10
2155	-7.9	8.37E-03	5557	-12.9	2.64E-05	8815	7.83	8.85E-03	12833	-11.38	3.12E-03	6693	-22.60	4.65E-03
2156	-7.8	9.79E-03	5558	-12.8	3.06E-05	8822	-20.56	2.52E-11	12840	-23.42	5.74E-06	6694	-23.80	2.69E-03
2163	-21.5	2.14E-06	5563	-12.2	1.01E-05	8824	-18.57	2.67E-05	12847	-32.97	1.39E-10	6695	-22.10	4.95E-03
2172	30.4	1.55E-18	5567	-8.4	8.40E-03	8825	-19.82	9.77E-11	12850	22.35	3.55E-15	6697	16.70	1.76E-08
2176	14	1.80E-06	5570	20.3	6.36E-14	8832	-33.49	4.54E-08	12852	9.07	3.58E-03	6700	15.60	1.71E-03
2177	15.9	1.34E-06	5571	21.7	4.21E-04	8833	-6.42	2.30E-03	12856	15.25	1.24E-06	6701	-12.80	9.81E-03
2178	18.6	2.18E-06	5572	10.3	6.61E-04	8834	13.65	2.46E-04	12859	-15.28	7.40E-07	6703	-13.30	1.23E-04
2183	8.5	4.31E-03	5574	-14.5	2.82E-06	8838	-18.41	2.00E-05	12865	43.26	9.97E-08	6706	-14.00	1.00E-05
2187	-29.5	1.89E-12	5576	12.8	3.73E-03	8839	-34.02	3.02E-09	12880	9.87	3.65E-03	6709	13.90	3.33E-05
2195	-9.5	2.71E-03	5577	17.0	3.36E-03	8840	-12.49	5.72E-04	12881	16.75	4.95E-08	6711	-29.00	1.81E-07
2199	-20.7	5.67E-03	5578	21.8	2.28E-09	8841	-23.79	1.62E-10	12882	-13.84	8.67E-04	6714	-24.70	6.04E-17
2203	-13.7	4.13E-03	5580	-26.7	4.82E-20	8843	-10.49	8.80E-04	12885	22.48	2.15E-13	6718	-20.60	1.24E-05
2210	-12.5	1.98E-04	5583	-32.7	1.31E-05	8846	-22.29	9.25E-06	12886	-15.93	7.11E-05	6722	-18.20	1.36E-07
2212	9.4	2.23E-03	5588	15.5	1.19E-05	8847	-17.68	1.27E-08	12887	30.46	8.35E-20	6724	27.40	1.87E-11
2215	11.7	4.41E-04	5590	15.7	2.54E-07	8848	-35.53	1.18E-31	12888	-19.58	4.23E-09	6726	-13.90	1.26E-03
2217	10.2	3.08E-03	5592	16.9	4.80E-08	8849	-35.96	3.26E-15	12889	35.59	2.61E-35	6727	32.20	1.74E-11
2218	8.9	2.98E-03	5593	-18.3	1.93E-06	8851	-20.21	4.43E-08	12891	9.47	1.79E-03	6735	23.70	1.80E-07
2227	-17.3	3.41E-06	5596	-16.2	5.77E-07	8854	-30.62	6.69E-05	12893	-25.83	1.45E-16	6736	-10.40	9.06E-03
2228	-23.2	6.89E-07	5597	-16.0	8.24E-07	8855	-10.22	1.91E-03	12894	-18.10	9.75E-04	6741	27.20	3.47E-05
2229	-18.6	2.83E-06	5601	-11.9	1.97E-04	8857	19.81	5.61E-11	12902	-22.02	4.46E-13	6743	-18.70	1.43E-05
2231	27.1	1.11E-11	5602	-13.7	4.32E-06	8863	-13.60	9.63E-06	12905	-21.13	3.38E-10	6749	-25.30	1.02E-09
2232	-14.1	1.08E-04	5605	-30.3	1.28E-09	8865	-20.60	1.51E-10	12907	11.71	1.94E-03	2816	-23.20	3.23E-04
2233	-13.2	5.73E-03	5606	-28.0	3.28E-08	8867	14.33	5.33E-06	12909	-11.30	2.08E-04	2820	-24.70	3.61E-10
2236	13.3	5.50E-03	5608	-33.3	4.44E-29	8870	-13.09	3.95E-04	12913	14.36	3.30E-05	2821	-15.30	6.85E-08
2237	-17.2	1.35E-03	5614	-24.7	1.73E-07	8874	-13.54	5.05E-06	12917	13.72	8.62E-06	2822	-16.10	6.89E-07
2238	15.1	9.23E-06	5616	10.5	4.95E-03	8875	19.46	4.16E-11	12926	-18.09	4.11E-04	2824	9.60	2.12E-03
2239	6.5	5.41E-03	5619	19.4	3.31E-09	8883	-32.79	5.83E-06	12927	-27.97	1.19E-21	2828	19.00	1.32E-08
2242	11.2	2.67E-03	5623	20.0	1.66E-08	8888	13.56	3.76E-06	12929	-15.59	4.11E-05	2829	-33.30	6.10E-20
2246	-24.8	3.54E-04	5624	-11.8	1.01E-03	8893	11.57	8.39E-05	12933	-21.41	7.00E-07	2830	-34.30	2.12E-22
2248	-8.3	2.48E-04	5627	9.1	4.03E-03	8898	-25.72	1.16E-19	12938	-30.66	1.49E-08	2832	16.30	1.26E-05
2250	-32.2	2.12E-28	5630	18.8	3.38E-06	8899	-18.73	1.28E-10	12940	21.65	1.40E-12	2834	11.60	6.40E-03
2251	-21.8	4.79E-10	5637	20.2	1.98E-07	8907	-14.65	2.75E-03	12945	12.95	2.84E-04	2838	-34.90	6.60E-25
2257	-16.2	1.02E-05	5638	27.5	8.96E-12	8908	-28.93	8.87E-23	12946	-16.83	9.75E-04	2843	26.70	7.39E-19
2260	-14.9	1.41E-05	5639	-12.5	3.68E-05	8910	18.01	2.72E-09	12948	-18.38	5.06E-05	2844	-19.00	5.80E-04
2261	-11.5	2.25E-04	5647	-12.3	4.22E-04	8911	19.45	9.98E-11	12952	26.77	8.00E-19	2845	-19.10	1.09E-03
2267	-13.4	2.04E-05	5648	-12.8	2.22E-03	8915	-12.02	8.81E-04	12962	27.07	1.62E-06	2848	-25.80	2.88E-18
2268	-19.2	5.29E-06	5658	24.9	1.07E-05	8916	-12.11	8.45E-04	12963	-18.24	2.07E-09	2850	-21.70	2.68E-06
2271	14.2	1.60E-06	5660	13.9	4.46E-06	8919	-25.35	5.22E-13	12969	7.15	1.37E-03	2857	-25.80	1.62E-09

2275	-16.7	2.83E-08	5664	-25.5	1.33E-05	8921	23.97	4.80E-09	12975	16.85	2.40E-07	2860	30.60	1.09E-04
2283	-9.6	6.84E-03	5667	10.5	4.12E-03	8922	-17.21	7.27E-09	12977	28.51	2.72E-12	2867	-33.30	3.32E-13
2284	-15.3	6.88E-07	5668	-30.7	4.70E-19	8928	-30.96	2.57E-19	12981	-9.68	4.92E-03	2872	12.70	2.77E-05
2285	-17.5	9.09E-08	5670	11.6	3.89E-04	8930	16.11	9.00E-05	12993	21.08	1.09E-12	2874	-13.40	1.00E-03
2288	-11.5	2.63E-04	5674	-36.7	8.95E-25	8933	-14.25	2.74E-06	12994	-15.71	2.87E-07	2877	27.20	8.61E-05
2291	-20.1	3.76E-08	5677	20.7	1.59E-11	8936	20.49	8.67E-04	12996	12.06	4.18E-05	2878	-8.80	2.26E-03
2293	25.8	1.06E-18	5679	-11.5	7.54E-04	8938	14.85	3.59E-08	12997	-18.78	2.38E-05	2882	14.40	1.41E-05
2294	25.5	1.68E-18	5682	13.0	1.52E-05	8941	-22.65	3.52E-04	12998	14.68	5.06E-06	2888	-18.30	4.78E-10
2295	-15.1	8.88E-06	5684	18.1	2.63E-03	8944	8.62	3.94E-03	12999	-18.20	7.18E-03	2890	32.70	1.94E-33
2300	27.4	7.18E-22	5688	-21.7	2.14E-07	8952	17.22	1.27E-06	13000	-19.32	1.23E-10	2891	17.40	6.13E-09
2303	23.9	9.61E-12	5691	18.9	9.05E-08	8954	24.96	1.59E-18	13001	-13.16	1.20E-04	2896	-15.90	6.96E-05
186														
2311	6.9	8.06E-03	5695	23.4	3.27E-05	8955	15.96	8.96E-08	13003	-24.38	2.27E-09	2897	-17.90	9.53E-04
2314	9	3.46E-04	5701	24.5	3.95E-07	8957	23.31	4.56E-11	13009	-22.31	2.46E-12	2898	-17.60	1.53E-03
2315	14.4	7.46E-06	5703	28.3	7.10E-23	8959	-20.41	3.97E-07	13011	14.49	2.02E-06	2900	18.50	9.32E-07
2316	15.2	1.26E-06	5704	23.0	8.49E-16	8960	-14.99	3.26E-06	13018	-9.83	8.53E-03	2901	-28.40	1.73E-15
2318	-14	1.51E-05	5705	15.3	1.15E-07	8963	-26.21	5.37E-10	13024	33.77	4.75E-08	2907	-12.90	3.96E-05
2321	-8.7	4.38E-03	5707	-13.1	1.25E-04	8965	-8.77	4.55E-03	13025	14.04	2.63E-04	2909	-12.40	4.73E-05
2322	10.3	1.18E-03	5708	-32.9	7.97E-10	8968	12.33	3.90E-03	13038	14.55	5.70E-03	2910	-10.70	3.49E-03
2323	13.9	1.64E-07	5711	-18.6	1.66E-08	8970	-16.68	2.70E-09	13040	-15.65	5.97E-04	2914	20.90	1.62E-09
2324	-15.1	1.59E-05	5712	-20.6	2.25E-07	8971	10.01	5.43E-05	13043	26.61	1.17E-18	2922	13.70	1.25E-03
2325	-28.3	6.37E-21	5713	23.7	4.65E-15	8973	7.52	5.57E-03	13051	20.86	2.88E-13	2924	24.60	5.97E-14
2327	-20.4	3.01E-03	5715	-26.5	4.04E-07	8974	7.93	3.58E-03	13054	-9.93	2.85E-03	2929	-9.00	2.81E-03
2328	11.3	1.11E-04	5737	-17.6	4.74E-06	8980	-14.14	5.23E-06	13059	16.65	3.22E-07	2939	-7.90	7.93E-03
2329	-22.8	9.06E-13	5739	8.8	2.06E-04	8981	-32.04	6.06E-23	13060	11.14	4.64E-04	2941	-23.30	3.75E-09
2330	8.4	6.28E-03	5741	-26.6	1.02E-21	8985	-43.85	1.30E-10	13063	-20.87	9.89E-07	2946	23.10	4.76E-13
2331	-8.5	4.33E-03	5742	-26.8	4.80E-22	8987	-13.10	1.81E-05	13065	-21.63	1.49E-11	2954	-7.60	5.35E-04
2335	-36.5	2.01E-26	5744	9.9	1.02E-03	8997	19.88	3.22E-09	13072	-25.88	2.62E-04	2955	-25.00	1.80E-07
2336	8.8	3.27E-03	5748	-28.1	3.64E-05	8999	12.75	1.47E-03	13075	26.77	9.40E-19	2959	-24.80	2.02E-16
2338	-9.8	6.52E-03	5753	-27.2	1.19E-07	9001	-12.46	1.90E-04	13086	-41.80	5.11E-08	2961	-22.60	5.76E-03
2343	17.6	1.11E-09	5754	-23.9	1.42E-17	9003	17.48	5.83E-09	13089	-21.63	7.95E-06	2965	11.20	2.63E-04
2344	8.3	5.41E-03	5755	-19.5	8.61E-05	9006	8.45	5.95E-03	13094	-10.18	1.90E-03	2968	-8.80	6.59E-03
2345	-11.2	3.57E-04	5756	34.3	3.00E-19	9010	-8.07	5.19E-03	13103	25.22	2.57E-16	2971	-23.80	1.04E-14
2353	13.5	8.86E-04	5761	13.6	6.73E-06	9011	21.32	7.91E-13	13105	15.43	5.63E-05	2974	-29.80	2.08E-10
2354	-38.1	4.61E-10	5762	13.9	4.05E-06	9015	-16.56	6.40E-04	13109	9.34	4.99E-03	2976	-20.30	4.85E-04
2357	11.3	7.69E-03	5763	28.6	8.79E-07	9027	-9.42	2.13E-03	13111	20.19	3.03E-12	2978	15.20	9.09E-07
2358	15.2	8.72E-05	5768	-16.0	7.81E-06	9029	16.32	4.71E-03	13116	-17.42	3.30E-06	2980	-32.30	2.50E-05
2360	-9.7	2.18E-03	5772	24.7	5.32E-04	9030	17.53	3.94E-09	13122	-15.64	1.41E-04	2981	-20.70	5.71E-03
2364	-13.6	4.93E-06	5774	-25.7	6.77E-04	9034	9.15	9.86E-03	13124	-15.33	5.86E-12	2996	8.00	7.56E-03
2369	-21.5	1.10E-12	5777	26.5	5.35E-06	9037	8.30	9.41E-03	13126	-21.58	4.65E-11	2997	10.20	4.64E-04
2371	-11.7	2.59E-03	5781	11.7	1.36E-03	9040	-19.80	1.72E-10	13128	-35.93	7.58E-09	2998	-20.10	4.19E-07
2373	-24.9	2.24E-08	5784	-16.6	5.28E-06	9043	-22.31	1.64E-05	13132	10.10	6.90E-04	3004	7.00	3.33E-03
2388	-10.5	1.51E-05	5785	-45.9	5.70E-18	9046	-34.38	1.45E-19	13139	19.33	1.63E-08	3006	20.60	1.65E-12
2389	-15.3	3.77E-06	5787	10.5	1.06E-03	9049	-22.18	1.67E-03	13140	-14.29	1.54E-06	3008	21.20	1.22E-05
2390	-23.5	4.71E-10	5788	-31.3	1.06E-15	9050	-31.53	1.87E-17	13142	-31.82	2.24E-13	3015	21.90	4.00E-08
2394	-16.1	7.08E-07	5791	-17.1	7.53E-09	9052	22.68	5.21E-13	13143	20.35	1.53E-09	3021	10.70	2.31E-03

2396	-24.8	1.00E-09	5796	-8.9	4.19E-03	9054	-14.51	4.82E-04	13149	15.53	4.71E-06	3022	11.00	2.90E-03
2399	-12	1.68E-04	5798	-21.4	5.29E-10	9055	-19.72	2.79E-08	13151	-27.21	9.61E-08	3024	11.30	2.84E-04
2400	18	4.48E-07	5800	-19.3	7.26E-12	9056	-7.70	8.78E-03	13153	-12.45	4.82E-05	3026	-23.60	3.62E-15
2407	39.8	6.49E-07	5803	-22.6	2.81E-05	9057	-15.84	2.08E-09	13154	-15.24	2.57E-06	3027	-39.10	1.10E-14
2413	19.7	3.19E-09	5804	-16.3	8.64E-04	9063	-16.93	1.59E-08	13161	-26.31	6.47E-21	3029	-22.80	2.29E-04
2414	19.5	3.04E-09	5806	-24.7	2.97E-07	9064	-15.53	1.70E-07	13171	15.90	2.06E-04	3031	14.40	4.21E-03
2416	-8.6	9.77E-03	5808	14.5	3.50E-03	9065	20.95	5.39E-08	13178	9.29	1.77E-03	3033	-29.60	1.15E-06
2421	-9.1	3.20E-03	5809	-22.9	1.38E-04	9068	22.50	5.70E-10	13179	12.08	9.71E-04	3034	23.20	2.05E-09
2422	-21.7	2.36E-12	5815	-18.4	3.63E-05	9069	23.57	1.79E-05	13191	-23.59	1.16E-06	3037	-17.30	3.69E-08
2423	8.8	6.61E-05	5816	-42.6	8.22E-13	9073	14.62	5.28E-05	13200	18.61	6.36E-07	3039	10.30	2.57E-03
2424	-16.7	1.13E-03	5819	-19.2	1.97E-07	9082	-19.91	9.46E-11	13201	27.81	1.69E-06	3042	12.90	2.16E-04
2427	-26.4	1.35E-18	5821	-19.0	2.99E-10	9084	-29.51	2.68E-15	13204	-10.31	2.59E-03	3044	-19.50	2.22E-05
2432	13.7	1.96E-05	5823	-39.6	3.69E-11	9086	5.92	9.24E-03	13210	22.65	2.57E-13	3048	27.60	1.31E-15
2436	9.6	9.32E-05	5824	-40.4	1.47E-11	9087	-19.14	1.26E-12	13211	-30.50	2.44E-07	3050	-35.50	5.29E-21
2442	17.6	1.06E-03	5825	-29.2	3.82E-13	9089	-22.75	7.86E-12	13212	19.39	1.19E-09	3051	-12.50	1.44E-04
2446	21.9	2.24E-10	5828	-19.7	3.35E-06	9095	-39.71	3.10E-10	13213	-11.65	5.73E-03	3053	18.30	2.38E-06
2452	14.7	1.13E-03	5830	-23.7	1.74E-03	9096	-11.22	2.42E-04	13214	17.49	1.27E-08	3057	-11.80	1.83E-04
2456	10.1	9.26E-03	5838	-35.2	5.21E-34	9097	-13.36	5.87E-03	13230	-23.74	1.75E-15	3061	-18.60	7.96E-03
2461	-22.6	5.05E-05	5840	15.8	6.66E-08	9099	-11.62	4.52E-03	13238	-13.58	5.29E-06	3062	-22.00	5.87E-12
2465	-24.6	1.76E-18	5841	8.6	6.37E-03	9103	15.11	8.53E-04	13249	-11.34	1.93E-04	3066	14.40	1.00E-05
2466	-10	8.54E-04	5846	17.8	3.75E-07	9110	-28.06	8.40E-07	13253	9.80	3.89E-03	3068	18.20	1.04E-08
2470	-29.3	8.39E-11	5852	-24.6	3.43E-06	9113	-24.72	1.62E-09	13255	10.42	8.23E-04	3069	22.10	2.14E-13
2471	28.8	5.05E-21	5856	25.2	3.66E-18	9120	-15.23	7.95E-03	13258	-15.23	5.45E-03	3072	35.10	1.40E-11
2472	-17	6.50E-07	5865	14.0	9.86E-04	9122	12.05	5.01E-04	13264	-13.26	4.62E-06	3074	-14.40	3.10E-03
2473	15.9	2.72E-03	5866	-16.9	4.64E-05	9123	-9.07	1.55E-03	13269	-15.86	5.51E-03	3075	8.90	5.68E-03
2476	29.3	1.11E-21	5868	22.2	2.70E-13	9125	-32.01	2.42E-10	13276	18.52	1.15E-10	3076	10.50	1.99E-03
187														
2479	6.5	2.23E-03	5870	8.1	5.02E-03	9127	-32.20	8.83E-28	13279	-26.35	9.66E-05	3077	14.50	3.30E-06
2480	5.8	8.60E-03	5871	12.0	2.31E-03	9129	33.82	2.16E-33	13300	-9.19	5.92E-03	3079	-11.30	3.56E-03
2483	14.8	7.30E-06	5872	13.8	6.79E-04	9132	-17.65	2.20E-10	13302	8.22	5.22E-03	3083	-18.70	2.92E-05
2484	22.9	2.36E-14	5874	10.5	3.58E-04	9140	19.26	5.77E-07	13305	-20.04	1.55E-07	3089	-21.00	2.69E-12
2485	23.2	6.85E-16	5875	-29.9	9.92E-19	9142	13.07	2.62E-05	13306	-18.31	2.75E-03	3093	14.80	8.21E-03
2486	11.8	1.18E-04	5876	-16.2	2.00E-06	9146	-8.42	5.03E-03	13312	-12.10	1.02E-04	3097	-20.20	4.56E-08
2490	-27.1	3.05E-05	5877	22.5	7.18E-13	9150	7.95	7.44E-03	13315	-24.21	4.08E-03	3100	-23.90	4.82E-09
2491	26.5	3.91E-20	5883	-15.5	1.87E-04	9158	9.36	7.83E-03	13323	-27.69	3.85E-06	3102	25.90	1.89E-05
2492	-22.2	1.70E-06	5884	-26.8	2.86E-18	9159	13.56	2.86E-08	13324	17.55	9.87E-09	3104	-12.20	1.08E-04
2495	14.1	8.60E-06	5887	-39.1	1.04E-13	9161	-12.88	1.34E-05	13326	14.34	1.55E-03	3108	-10.70	3.90E-04
2497	7.7	9.32E-03	5890	-22.5	2.32E-12	9165	12.14	3.39E-08	13328	30.51	5.01E-17	3116	18.00	4.26E-06
2499	9.5	3.51E-03	5892	-9.7	1.36E-03	9166	-20.10	4.44E-11	13336	-18.80	5.56E-09	3118	-17.70	2.31E-07
2501	-10.4	1.39E-06	5896	10.2	6.60E-04	9173	18.09	1.64E-08	13340	-17.80	1.97E-06	3120	-15.20	2.44E-07
2504	-13.8	8.48E-03	5897	-21.2	1.03E-12	9178	-19.47	6.03E-05	13349	12.71	1.60E-04	3122	14.00	1.74E-05
2508	-10.8	4.34E-04	5900	-34.0	4.86E-08	9179	-18.61	1.18E-04	13352	-14.77	2.07E-04	3124	-19.10	1.76E-10
2510	-32.2	1.22E-04	5901	-15.8	7.06E-07	9182	-9.55	1.44E-03	13355	-9.68	2.30E-03	3125	-22.60	2.07E-13
2511	18.5	2.04E-06	5902	14.6	3.09E-06	9183	-25.44	2.64E-18	13367	15.80	5.15E-08	3127	-12.90	2.61E-05
2515	14.8	2.00E-03	5903	25.3	6.13E-06	9184	16.80	8.51E-08	13378	-23.55	3.86E-06	3129	25.70	5.52E-16
2516	-14.9	2.59E-04	5904	10.9	9.55E-05	9187	-9.24	1.24E-04	13381	-22.02	3.71E-06	3131	11.10	3.32E-04

2518	8.7	3.78E-03	5906	23.8	2.91E-14	9188	-8.97	2.85E-03	13383	14.41	1.82E-04	3132	12.80	9.70E-06
2521	20.4	1.20E-07	5908	13.9	2.71E-03	9192	-21.97	3.16E-12	13385	-18.17	5.97E-03	3139	-12.50	8.89E-04
2522	-29.7	9.20E-24	5910	-28.1	8.46E-11	9193	-29.64	5.16E-05	13396	-8.07	6.70E-03	3140	14.10	1.30E-05
2523	-30.4	2.06E-24	5914	25.6	2.53E-14	9194	16.22	5.81E-07	13403	-15.41	6.01E-07	3141	18.80	7.85E-09
2527	16.1	3.17E-08	5916	14.0	3.32E-04	9196	-18.29	8.13E-08	13404	-23.37	1.21E-04	3142	15.90	5.47E-08
2531	-18.3	6.35E-03	5917	13.8	1.27E-04	9201	14.76	7.46E-06	13406	-11.90	1.26E-04	3143	-21.20	2.23E-10
2532	-29.1	2.55E-17	5918	-12.1	7.92E-03	9207	11.50	1.30E-04	13413	33.15	6.22E-08	3144	-14.20	4.79E-06
2534	18.1	4.91E-04	5921	-21.9	4.87E-07	9209	11.22	9.99E-03	13420	25.47	1.99E-10	3145	-14.40	3.49E-06
2535	24.3	2.50E-08	5922	-21.4	3.04E-06	9210	10.51	1.29E-03	13432	8.84	3.96E-03	3149	15.00	3.91E-05
2537	9.4	3.16E-04	5923	25.0	2.01E-14	9213	18.47	6.55E-08	13434	22.06	3.52E-10	3150	-13.80	3.51E-06
2543	13.3	2.25E-03	5924	-16.8	1.56E-07	9216	-8.71	4.18E-03	13435	-12.43	8.07E-03	3153	-16.80	1.09E-07
2550	-28.4	1.24E-07	5925	-13.1	2.52E-04	9221	27.73	2.97E-05	13447	9.30	3.71E-03	3154	25.70	8.81E-13
2553	9.5	2.32E-03	5927	12.4	5.19E-05	9222	19.67	7.05E-05	13455	-19.78	6.37E-13	3158	-20.40	2.29E-11
2559	-25.7	7.01E-04	5929	-13.0	5.25E-04	9224	-25.65	3.35E-09	13457	-21.94	5.24E-11	3159	8.70	3.76E-03
2560	-11.2	9.75E-04	5930	-28.2	2.73E-17	9225	13.46	8.47E-09	13461	15.47	3.03E-06	3165	-26.10	7.98E-14
2568	20.7	2.68E-10	5931	15.8	2.55E-05	9226	-13.24	9.17E-03	13470	-12.03	1.45E-03	3166	-18.70	6.83E-11
2571	-16.8	9.56E-07	5942	11.2	2.97E-03	9232	-16.38	4.77E-06	13472	-28.85	2.35E-07	3167	-26.40	8.29E-12
2575	29.7	4.72E-06	5945	8.2	5.37E-03	9236	-9.55	1.21E-03	13476	7.54	6.67E-03	3170	18.70	5.00E-06
2577	-27.8	3.33E-08	5948	-13.7	2.91E-07	9237	-21.08	4.84E-14	13485	10.10	7.85E-03	3172	-19.10	1.67E-03
2578	-23.4	3.56E-05	5952	-15.0	8.55E-07	9239	10.23	6.14E-03	13491	-24.52	2.77E-03	3176	24.80	8.08E-17
2580	24.3	2.16E-12	5953	-16.8	7.10E-08	9241	-13.39	4.75E-05	13492	36.63	2.14E-08	3177	-12.90	2.23E-03
2582	-8.7	3.92E-03	5955	23.0	1.81E-08	9244	-10.56	5.70E-04	13497	-10.60	5.19E-04	3178	-15.20	6.41E-07
2584	8.6	7.29E-03	5957	-15.7	1.44E-04	9245	15.60	1.45E-03	13501	-10.52	6.04E-04	3179	-18.90	1.54E-07
2587	-13.4	1.93E-04	5958	9.2	9.56E-03	9248	23.82	6.48E-12	13512	13.45	2.62E-05	3181	-14.10	1.61E-04
2590	21.7	5.40E-05	5966	19.3	2.84E-12	9255	-16.49	4.01E-03	13517	-22.26	7.83E-07	3183	-21.00	6.00E-11
2595	29.9	3.05E-26	5968	-19.8	2.33E-12	9260	-15.81	3.06E-07	13519	11.62	8.04E-03	3184	17.70	4.64E-09
2599	-11.9	2.22E-04	5970	12.9	8.43E-06	9264	11.79	8.18E-05	13521	-13.49	1.85E-05	3189	-14.50	1.32E-06
2604	-30.2	5.46E-18	5971	33.4	3.48E-31	9265	16.93	1.83E-03	13523	17.91	6.81E-07	3190	17.20	4.85E-06
2608	24.8	1.98E-16	5972	18.5	1.28E-09	9267	-14.75	1.79E-05	13526	8.41	4.29E-03	3193	19.10	1.46E-03
2611	-21.3	6.97E-07	5973	11.7	1.17E-04	9269	-15.60	6.66E-07	13527	-19.42	2.71E-11	3194	18.80	1.99E-03
2612	-22.5	5.47E-13	5979	20.2	2.80E-07	9273	-15.56	6.40E-06	13529	22.68	1.66E-08	3196	-15.50	6.58E-05
2613	-16.3	4.69E-06	5986	17.3	9.84E-08	9278	10.86	1.09E-03	13538	-19.03	6.04E-08	3197	-27.60	1.71E-05
2614	13.3	6.10E-04	5989	9.5	9.20E-06	9281	-22.82	1.91E-13	13540	-29.32	1.63E-04	3198	-10.70	3.36E-04
2617	-17.7	1.08E-04	5992	-15.5	1.30E-10	9284	-14.90	6.39E-08	13551	14.39	2.80E-03	3199	-14.10	6.52E-05
2619	13.8	1.01E-03	5993	-20.0	2.86E-06	9288	-22.76	4.58E-13	13560	-15.11	4.63E-05	3205	-20.50	1.42E-05
2620	17.4	4.13E-11	5994	14.7	4.95E-06	9289	-19.06	1.30E-04	13567	12.54	9.04E-05	3210	11.90	4.79E-05
2622	12.6	3.20E-05	5995	14.9	3.42E-06	9290	-10.37	1.00E-03	3213	-24.60	3.69E-05	13575	32.9	2.75E-06
2624	12.6	4.39E-05	5996	14.4	7.27E-06	9293	-12.50	1.08E-04	3218	-26.40	2.52E-14	13578	24.9	1.28E-16
2630	22.8	4.14E-05	5997	14.5	7.07E-06	9294	-12.43	9.88E-05	3220	16.90	2.01E-07	13583	-13.7	9.63E-06
2633	-23.8	6.97E-06	5998	-21.4	8.88E-13	9300	20.42	3.06E-11	3227	-18.80	3.97E-05	13587	13.1	1.36E-03
2638	-19.6	9.46E-04	6006	-17.5	1.03E-06	9302	13.31	9.75E-04	3235	-15.80	2.02E-06	13594	8.7	7.96E-03
188														
2640	20.6	6.97E-05	6015	-18.5	1.21E-09	9304	-9.43	1.63E-03	3239	-12.80	2.50E-03	13600	20.2	1.14E-05
2642	14.3	2.76E-06	6016	-17.3	2.04E-08	9306	10.16	7.69E-03	3240	-12.90	2.35E-03	13605	-10.6	6.83E-03
2649	-9.3	1.89E-03	6017	-20.6	3.58E-04	9307	15.32	1.90E-05	3241	-28.10	4.07E-12	13608	24.6	3.14E-17
2650	10.4	6.65E-04	6024	-15.0	6.90E-06	9311	-11.67	1.56E-04	3245	13.20	5.21E-05	13609	11.3	5.80E-04

2652	-11.6	1.71E-03	6025	-36.4	2.82E-06	9313	-15.84	5.98E-03	3248	-26.50	3.98E-07	13614	-16.5	7.68E-08
2657	10.7	1.34E-03	6031	20.8	2.68E-13	9314	15.57	7.57E-05	3253	6.90	4.35E-03	13618	8.7	4.09E-03
2664	9.2	1.95E-03	6033	-21.7	1.28E-07	9315	-11.61	1.95E-04	3254	-11.90	1.45E-03	13622	14.2	4.38E-04
2665	9.6	1.30E-03	6036	-30.6	2.65E-15	9319	9.19	2.05E-03	3257	13.30	7.78E-05	13626	-25.3	1.29E-04
2667	22.9	3.47E-06	6037	-14.1	1.73E-05	9326	-21.07	3.10E-07	3258	14.00	8.21E-06	13629	30.9	3.29E-25
2668	-21.7	5.79E-13	6045	-14.3	1.69E-03	9327	-19.97	9.28E-05	3259	-9.90	7.01E-03	13632	-19.8	4.42E-06
2670	-14.6	4.50E-03	6046	19.7	1.57E-05	9329	-21.74	2.72E-14	3263	18.60	1.12E-09	13642	17.9	5.99E-08
2673	18.3	4.38E-06	6049	20.1	4.21E-04	9330	-11.58	2.67E-04	3266	8.80	2.44E-03	13646	16.4	6.30E-08
2677	13.3	1.73E-03	6050	-9.4	3.53E-05	9341	-8.39	4.50E-03	3272	23.40	5.84E-07	13656	-8.1	1.19E-03
2682	22.3	9.16E-04	6052	-16.4	9.55E-07	9347	-29.38	2.59E-24	3275	-11.50	4.36E-03	13663	-16.5	1.19E-06
2686	24.3	1.36E-08	6061	-24.3	7.56E-07	9348	-7.64	2.86E-04	3276	-10.30	2.29E-04	13667	-9.8	4.34E-03
2687	17.1	2.82E-07	6067	10.2	7.56E-04	9349	-26.87	2.72E-09	3277	-9.90	5.46E-04	13668	14.8	2.75E-04
2688	-17.3	1.46E-08	6068	19.1	4.35E-11	9352	8.50	7.23E-03	3278	-9.30	7.27E-03	13676	30.5	1.96E-07
2693	14.1	2.56E-05	6069	-12.2	4.35E-08	9353	8.38	7.99E-03	3280	-12.40	2.13E-05	13687	-15.6	1.41E-06
2694	14.5	6.53E-03	6070	-12.0	1.68E-03	9355	19.10	1.68E-11	3281	-19.10	2.38E-05	13700	-14.6	1.01E-05
2696	19.5	7.63E-10	6071	7.8	8.89E-03	9360	-15.96	5.68E-05	3283	-14.10	1.16E-03	13707	-47.6	5.65E-13
2698	12	3.62E-05	6074	-8.9	1.06E-03	9362	-13.85	1.96E-05	3286	14.10	2.06E-06	13710	14.9	1.43E-08
2702	15.6	2.35E-04	6075	-10.2	2.02E-06	9367	-18.24	9.23E-06	3289	-15.90	1.32E-03	13713	-12.5	6.24E-05
2703	-28	1.42E-09	6081	14.1	3.99E-05	9368	27.99	9.77E-23	3291	24.80	2.75E-05	13720	-16.7	7.42E-06
2705	-21.7	2.51E-13	6086	-30.3	1.46E-16	9369	13.03	6.60E-06	3292	-10.70	3.97E-03	13723	-17.0	1.74E-03
2707	-12.6	3.46E-04	6087	-18.4	9.31E-09	9371	-9.35	7.87E-03	3310	13.70	5.49E-06	13727	-12.5	5.12E-04
2712	-13.7	1.24E-05	6088	-18.4	9.73E-09	9373	15.35	9.56E-07	3312	-11.60	4.90E-04	13734	12.8	9.96E-05
2714	-43	6.81E-11	6089	-16.2	1.60E-07	9376	12.97	2.39E-04	3313	-12.00	3.66E-04	13741	-11.9	1.24E-04
2721	11	8.28E-03	6092	-14.7	4.67E-04	9379	14.39	4.57E-04	3317	26.70	6.19E-20	13743	-12.7	2.82E-03
2726	11.5	2.74E-03	6093	-12.5	2.15E-03	9381	-17.48	1.11E-07	3321	12.00	3.84E-05	13755	17.6	6.31E-05
2727	14.6	1.37E-05	6095	20.2	6.99E-03	9383	-22.85	8.09E-15	3322	-31.60	6.78E-20	13760	-14.5	7.53E-06
2730	-35.9	5.55E-10	6100	12.9	3.14E-03	9386	-15.43	1.14E-05	3325	-20.40	3.41E-03	13763	-28.7	1.10E-07
2731	-35.4	7.04E-10	6101	13.0	3.09E-03	9388	-29.56	1.09E-08	3327	-22.30	1.30E-06	13766	-19.2	4.29E-07
2733	14	7.26E-03	6102	-20.7	9.88E-12	9390	-21.40	1.06E-05	3334	-16.70	1.38E-04	13767	-21.7	3.44E-13
2735	32.9	4.23E-29	6103	-22.0	7.10E-10	9394	-31.56	1.06E-15	3340	8.10	8.10E-03	13772	19.4	5.75E-11
2736	18.1	3.55E-09	6104	-9.5	1.25E-03	9397	-18.66	1.23E-08	3341	-26.80	1.75E-12	13783	-9.0	2.10E-03
2740	12.8	5.70E-05	6105	27.0	5.04E-19	9399	-19.87	2.04E-03	3343	-8.60	3.70E-04	13786	20.7	1.84E-04
2742	-25.3	1.82E-07	6110	-12.4	3.70E-03	9402	-23.75	3.10E-11	3344	-8.00	6.65E-03	13788	-17.1	1.05E-05
2743	13.1	8.01E-04	6111	-16.4	3.36E-06	9405	-17.68	4.47E-06	3349	19.60	5.96E-04	13791	7.4	9.93E-03
2745	-10.6	5.55E-03	6112	-13.9	2.00E-05	9406	-13.98	3.95E-11	3350	19.60	5.94E-04	13793	-24.8	1.77E-12
2746	17.8	6.19E-15	6117	-22.5	2.58E-13	9407	-10.97	7.76E-03	3352	17.50	7.04E-04	13795	20.2	4.63E-09
2752	-21.6	2.40E-05	6118	14.7	1.04E-06	9408	-10.12	1.87E-03	3353	15.00	1.38E-06	13798	-19.8	2.80E-09
2754	35.7	7.78E-37	6124	12.3	3.60E-04	9409	-8.78	8.60E-03	3357	-10.10	1.53E-03	13805	13.1	2.43E-05
2756	-33.1	1.86E-29	6130	-14.4	3.81E-06	9413	-12.19	7.01E-03	3359	-13.10	3.09E-05	13813	-15.3	1.33E-06
2760	-23.9	1.87E-15	6134	-22.0	2.86E-12	9415	7.66	4.83E-03	3367	13.20	3.90E-04	13814	-32.3	2.58E-13
2761	-23.7	3.54E-15	6135	-20.1	9.07E-05	9420	11.43	2.79E-03	13819	10.89	2.85E-04	2791	11.5	2.67E-03
2772	-9.4	4.25E-03	6136	-21.3	3.08E-11	9421	-16.28	6.41E-05	13832	19.77	3.61E-09	2796	9.3	1.83E-03
2773	-18.1	2.68E-04	6137	-21.2	3.88E-11	9423	-12.60	1.65E-04	13837	10.37	4.66E-03	2805	18.2	1.77E-03
2774	24.9	1.20E-06	6142	-13.0	4.78E-05	9424	-24.62	2.91E-12	13838	22.67	6.45E-13	6179	-9.7	2.86E-03
2776	-19.2	6.93E-04	6143	-18.1	1.52E-08	9430	-11.88	9.83E-05	13839	-25.12	5.13E-16	6181	16.2	9.52E-08
2777	-21.3	7.01E-07	6148	-25.4	1.22E-04	9437	-35.27	1.56E-08	13840	-12.74	1.50E-03	6183	-14.7	4.32E-03

2778	17.8	1.25E-09	6150	-14.0	7.63E-03	9438	14.03	5.15E-03	13852	8.26	4.61E-03	9458	-18.93	3.39E-03
2779	-8.8	4.27E-03	6152	29.6	1.59E-20	9447	-22.16	2.53E-04	13857	18.15	2.90E-09	9459	-20.03	7.32E-10
2781	27.6	9.29E-15	6158	-13.6	4.75E-06	9448	-17.00	4.02E-08	13860	-21.28	3.36E-08	9460	20.11	4.33E-09
2782	9.5	5.86E-06	6170	11.4	8.78E-03	9449	12.64	2.70E-03	13861	10.82	3.48E-03	13873	-8.24	3.99E-03
2788	15.7	5.33E-05	6172	8.7	4.24E-03	9452	-28.75	3.53E-12	13865	-39.06	1.83E-04	13878	-12.17	1.68E-03
2789	14.5	3.40E-03	6177	11.0	3.82E-04	9453	12.09	4.28E-04	13871	5.97	7.40E-03	13882	21.96	4.12E-04

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TABLE 6 - GENETIC MARKERS FOR FAT %

A	B	C	A	B	C	A	B	C	A	B	C
3	-0.10	9.46E-04	343	0.10	1.26E-03	665	-0.10	3.65E-03	1044	-0.10	8.53E-03
6	0.10	1.06E-04	347	0.10	3.63E-03	668	0.10	1.64E-09	1049	0.10	1.56E-04
15	-0.10	1.65E-03	353	-0.10	7.34E-03	678	-0.10	3.51E-03	1063	0.00	6.55E-03
16	-0.10	5.81E-05	354	0.10	8.29E-06	681	-0.10	2.12E-06	1072	-0.10	8.30E-04
22	0.10	3.08E-06	361	-0.10	8.47E-04	690	0.10	2.19E-07	1074	-0.10	9.55E-03
38	0.10	2.41E-03	366	0.10	1.39E-06	693	-0.20	7.56E-11	1084	-0.10	1.41E-03
39	0.20	1.04E-07	376	0.10	9.09E-07	697	-0.10	8.03E-03	1097	0.10	5.34E-04
43	-0.10	9.28E-03	377	0.10	6.24E-03	699	0.10	2.17E-03	1099	0.10	7.64E-06
50	0.10	2.60E-03	391	-0.10	9.38E-05	703	-0.10	6.77E-03	1100	0.10	9.40E-03
52	0.10	1.96E-03	394	0.10	1.27E-03	707	0.10	6.24E-05	1109	-0.10	6.84E-03
63	0.10	7.37E-04	395	0.10	8.84E-04	708	-0.10	4.40E-03	1110	0.10	6.57E-13
66	0.10	9.88E-05	396	0.10	3.15E-04	718	0.10	3.55E-03	1121	0.10	8.38E-07
71	0.10	5.10E-03	404	-0.10	3.52E-03	724	0.10	1.29E-04	1133	0.10	4.05E-03
77	0.10	3.28E-05	408	0.10	1.85E-05	735	-0.10	8.87E-03	1145	-0.10	2.46E-03
83	0.10	1.54E-03	410	0.10	5.21E-06	753	0.10	1.09E-03	1146	-0.10	2.13E-03
88	-0.10	8.31E-03	411	0.10	3.93E-06	760	0.10	5.61E-03	1147	-0.10	1.53E-06
97	0.10	1.10E-03	412	0.10	5.13E-08	761	-0.10	2.48E-04	1148	0.00	5.83E-03
99	-0.10	2.00E-04	415	0.10	5.84E-08	764	0.10	3.49E-03	1160	-0.10	1.61E-04
101	0.10	5.30E-06	429	-0.10	9.30E-06	765	0.10	2.71E-04	1164	-0.10	5.72E-04
106	-0.10	3.21E-03	435	0.10	8.00E-03	766	-0.10	4.54E-03	1171	-0.10	1.95E-03
120	0.10	7.99E-04	444	0.10	1.19E-05	769	0.10	2.79E-06	1172	0.10	7.19E-04
131	-0.10	8.87E-04	458	-0.10	6.20E-04	779	0.10	3.88E-09	1174	0.10	3.34E-03
133	-0.30	1.82E-31	467	0.10	1.45E-08	781	-0.10	2.92E-03	1193	-0.10	1.28E-03
143	-0.10	3.52E-03	476	-0.10	5.51E-08	785	-0.10	2.76E-03	1194	-0.10	3.30E-04
148	-0.10	9.94E-03	477	-0.10	1.05E-03	793	-0.10	4.43E-07	1195	-0.10	7.61E-06
152	-0.10	6.54E-03	479	0.10	1.20E-03	799	-0.10	9.53E-04	1204	-0.10	8.98E-05
156	-0.10	6.53E-06	481	-0.10	6.45E-05	801	0.10	3.13E-03	1205	-0.10	1.38E-04
158	0.10	2.73E-03	488	0.10	8.49E-03	808	0.10	1.27E-05	1229	0.10	6.09E-03
164	0.10	9.14E-03	495	-0.10	2.06E-04	827	-0.10	2.07E-03	1244	*-0.10*	*2.64E-07*
168	-0.10	7.86E-04	497	0.10	7.68E-04	829	-0.10	5.77E-05	1260	0.00	9.11E-03
176	0.10	4.49E-10	508	-0.10	9.12E-06	837	0.10	2.45E-04	1265	-0.10	8.36E-08
177	-0.10	9.19E-05	513	-0.10	2.09E-04	840	0.10	2.36E-06	1274	-0.10	3.80E-04
185	-0.10	4.15E-03	520	0.10	2.36E-04	841	0.10	2.98E-05	1278	0.10	5.10E-06
191	0.10	8.74E-05	525	0.10	1.56E-03	842	0.10	4.67E-04	1279	-0.10	7.09E-04
194	0.00	8.50E-03	532	-0.10	1.19E-07	844	-0.10	1.89E-03	1281	-0.10	1.36E-04
200	0.10	5.24E-03	534	0.10	1.23E-07	846	0.10	1.07E-03	1287	0.10	4.75E-09
203	0.10	9.19E-03	535	-0.10	2.56E-03	847	-0.10	7.31E-03	1291	-0.10	5.38E-03
217	-0.10	1.91E-03	537	0.00	4.57E-03	854	0.10	2.36E-03	1294	-0.10	1.05E-04
220	0.10	1.22E-03	538	0.00	7.96E-03	855	-0.10	1.18E-03	1299	0.10	1.13E-03

221	0.10	2.19E-08	539	0.10	3.99E-09	858	0.10	7.19E-03	1310	0.20	1.67E-05
222	0.10	7.11E-04	540	0.10	1.32E-07	864	-0.10	7.71E-04	1327	0.00	8.65E-03
226	0.10	2.48E-04	541	0.10	3.46E-03	867	0.10	5.16E-04	1334	0.10	8.16E-03
238	0.10	2.56E-03	543	-0.10	3.16E-05	876	0.10	6.41E-03	1339	0.10	7.13E-04
251	-0.10	3.75E-06	546	0.10	8.45E-03	883	-0.10	6.54E-04	1346	0.10	7.04E-07
264	-0.10	1.03E-03	549	0.10	8.53E-03	884	0.10	8.79E-04	1350	0.10	2.65E-04
282	-0.10	2.21E-04	561	0.10	5.05E-05	900	-0.10	9.04E-06	1356	-0.10	1.78E-03
287	-0.10	3.16E-06	570	0.10	6.26E-03	916	-0.10	2.20E-05	1359	-0.10	7.62E-03
288	-0.10	3.41E-06	572	0.00	7.95E-03	919	-0.10	3.50E-03	1364	-0.10	7.89E-04
290	0.10	6.38E-03	582	-0.10	1.12E-03	936	-0.10	7.62E-05	1366	-0.10	3.84E-03
291	-0.10	3.27E-05	583	0.10	1.46E-03	945	0.00	7.11E-03	1375	0.10	6.26E-05
299	-0.10	3.52E-03	586	0.10	4.33E-03	949	0.20	2.37E-16	1379	0.10	5.21E-03
300	-0.10	2.54E-05	591	0.10	5.94E-05	954	-0.10	6.72E-04	1380	0.20	6.11E-07
305	-0.10	2.11E-03	594	-0.10	5.75E-03	963	0.10	5.85E-06	1385	0.10	3.91E-06
315	-0.10	2.42E-04	595	0.10	4.63E-03	979	-0.20	1.87E-17	1390	0.10	1.01E-03
317	0.10	9.71E-04	607	0.10	3.84E-03	994	0.10	3.56E-04	1392	0.10	5.79E-03
318	0.10	7.27E-04	614	0.10	4.57E-05	1003	-0.10	1.40E-04	1393	0.10	2.17E-06
327	0.10	3.27E-05	623	-0.10	1.47E-03	1009	0.10	1.19E-05	1394	0.10	6.16E-03
331	0.10	1.04E-03	629	-0.10	8.73E-06	1012	-0.10	1.29E-03	1396	0.10	2.83E-09
333	-0.10	2.70E-03	636	-0.10	2.22E-05	1016	0.10	4.70E-05	1406	0.10	1.12E-06
335	0.10	3.19E-08	637	0.10	6.65E-03	1028	0.10	6.47E-03	1409	-0.10	9.30E-05
336	0.10	9.43E-08	640	0.10	4.24E-03	1031	0.10	8.64E-04	1411	-0.10	1.40E-03
190											
2293	-0.20	1.49E-17	654	-0.10	7.17E-03	1032	0.10	7.27E-03	1415	0.10	2.72E-04
2294	-0.10	2.35E-17	663	0.10	1.03E-03	1033	-0.10	5.65E-04	1419	-0.10	1.58E-03
2300	-0.10	1.10E-10	664	0.10	8.22E-05	1035	0.10	1.44E-03	1420	-0.10	2.97E-03
2303	-0.10	6.69E-04	2670	0.10	2.98E-03	5094	-0.10	5.07E-04	8977	-0.10	3.30E-04
2316	-0.10	2.91E-04	2688	0.10	1.35E-03	5098	-0.10	9.72E-15	8981	0.10	2.64E-08
2317	0.10	1.64E-03	2696	-0.10	7.86E-03	5102	0.10	2.95E-04	8985	0.10	4.24E-03
2320	0.10	2.88E-03	2705	0.10	1.26E-04	5134	0.10	1.04E-07	9005	-0.10	2.29E-04
2323	-0.10	1.18E-04	2707	0.10	2.84E-03	5135	0.00	8.41E-03	9009	-0.10	2.35E-05
2335	0.10	9.54E-05	2714	0.10	5.83E-03	5149	0.10	1.68E-04	9026	-0.10	9.23E-06
2338	-0.10	9.79E-04	2715	-0.10	9.03E-03	5162	0.10	1.05E-03	9027	0.10	7.53E-05
2364	0.10	8.60E-04	2722	0.10	3.56E-04	5176	0.20	2.15E-04	9030	-0.10	4.53E-03
2373	0.10	8.91E-03	2723	0.20	2.03E-03	5179	0.10	4.51E-03	9031	-0.10	5.64E-06
2389	0.10	3.75E-11	2735	-0.10	6.17E-03	5183	0.10	2.86E-03	9032	-0.10	3.38E-03
2394	0.10	6.21E-03	2752	0.10	3.30E-03	5197	0.10	6.03E-05	9037	0.10	7.96E-03
2401	0.10	2.71E-03	2754	-0.10	4.54E-04	5199	0.10	1.48E-03	9043	0.10	1.84E-03
2412	0.10	6.07E-04	2760	0.10	1.09E-09	5204	0.10	1.47E-03	9046	0.10	4.82E-06
2422	0.10	2.02E-03	2761	0.10	1.96E-09	5209	-0.10	3.22E-03	9049	0.20	1.26E-05
2424	0.10	3.01E-03	2772	0.10	3.19E-04	5211	-0.10	6.54E-03	9050	0.10	4.70E-04
2428	-0.10	1.64E-03	2782	-0.10	4.71E-12	5220	0.10	1.31E-04	9052	-0.10	6.48E-03

2429	-0.10	1.34E-03	2786	-0.10	2.69E-03	5230	-0.10	5.01E-05	9057	0.10	4.97E-05
2432	-0.10	1.80E-03	2788	-0.10	2.89E-03	5231	-0.10	2.24E-05	9059	0.10	4.67E-03
2436	0.00	4.28E-03	2793	0.10	6.88E-05	5235	0.10	5.34E-03	9063	0.10	1.95E-05
2443	0.10	1.89E-04	2798	-0.10	3.94E-03	5273	0.10	8.50E-09	9064	0.10	4.27E-07
2444	0.10	6.84E-05	2820	0.10	9.08E-03	5274	0.10	9.97E-09	9067	0.10	5.02E-03
2446	-0.20	5.24E-16	2821	0.10	2.90E-03	5276	0.20	7.74E-04	9084	0.10	7.04E-03
2455	0.10	2.84E-03	2822	0.10	5.79E-04	5278	-0.10	7.72E-03	9089	0.10	3.62E-03
2456	-0.10	4.21E-06	2828	-0.10	3.72E-04	5279	0.10	2.96E-04	9093	-0.10	1.33E-03
2459	0.10	9.96E-03	2829	0.10	1.91E-07	5283	-0.10	4.38E-04	9094	-0.10	3.83E-04
2465	0.10	3.16E-03	2830	0.10	5.43E-08	5285	0.10	4.91E-09	9096	0.10	6.58E-03
2466	0.10	6.81E-03	2848	0.10	4.04E-04	5290	0.10	3.70E-04	9106	0.10	1.93E-03
2470	0.10	6.19E-04	2850	0.10	6.41E-03	5293	0.10	6.55E-03	9115	-0.10	1.54E-03
2471	-0.10	1.81E-06	2872	-0.10	7.43E-07	5294	-0.10	2.62E-03	9122	-0.10	5.73E-04
2472	0.10	2.32E-03	2874	0.10	4.23E-04	5300	-0.10	6.77E-03	9123	-0.10	2.57E-03
2479	-0.10	3.82E-07	2878	0.10	5.04E-08	5302	0.10	1.96E-03	9126	0.10	1.12E-04
2480	-0.10	2.16E-06	2880	0.10	8.13E-03	5308	0.10	3.34E-04	9129	-0.10	1.58E-07
2483	-0.10	3.65E-05	2890	-0.10	1.47E-03	5316	-0.10	3.50E-04	9155	0.10	2.15E-03
2484	-0.10	2.33E-07	2902	0.10	1.01E-04	5321	-0.10	1.08E-03	9165	-0.10	6.64E-05
2485	-0.10	3.23E-08	2922	-0.10	2.41E-05	5323	0.10	2.66E-03	9166	0.00	8.75E-03
2486	-0.10	6.81E-06	2924	-0.10	5.88E-03	5329	0.10	3.47E-03	9173	-0.10	2.73E-08
2489	-0.10	6.76E-03	2941	0.10	4.23E-04	5334	0.10	8.36E-03	9180	0.10	1.54E-03
2491	-0.10	6.73E-08	2946	-0.10	1.34E-03	5336	0.10	2.38E-03	9183	0.10	1.25E-03
2499	-0.10	5.51E-04	2954	0.10	9.47E-05	5340	0.10	6.31E-03	9187	0.10	2.81E-05
2504	0.10	4.93E-03	2955	0.10	7.72E-06	5344	-0.10	2.13E-04	9190	-0.10	2.91E-04
2505	0.10	6.94E-03	2959	0.10	1.77E-06	5345	-0.10	2.17E-07	9200	0.10	1.16E-04
2518	-0.10	2.79E-04	2968	0.10	7.31E-04	5353	-0.10	1.88E-05	9201	-0.10	2.93E-03
2524	-0.10	1.11E-03	2970	0.10	5.17E-03	5360	-0.10	1.32E-04	9209	-0.10	2.02E-03
2525	-0.10	1.09E-03	2971	0.10	9.19E-04	5369	0.10	7.25E-03	9213	-0.10	8.14E-05
2535	-0.10	1.44E-03	2974	0.10	7.75E-03	5372	0.10	7.41E-04	9225	0.00	6.80E-03
2550	0.10	7.52E-04	2995	-0.10	8.12E-04	5384	-0.10	1.57E-03	9227	0.10	3.46E-03
2551	0.10	2.91E-03	2996	-0.10	1.43E-03	5388	-0.10	5.88E-04	9228	-0.10	2.10E-03
2571	0.10	6.84E-07	3004	0.00	8.39E-03	5391	0.10	5.11E-03	9236	-0.10	2.29E-03
2578	0.10	8.05E-03	3021	-0.10	3.17E-03	5397	-0.10	2.24E-03	9239	-0.10	1.82E-05
2587	0.10	3.95E-06	3035	0.10	2.30E-03	5399	0.10	2.82E-09	9241	0.10	6.62E-03
2590	-0.10	2.57E-03	3037	0.10	4.03E-04	5404	0.00	7.59E-03	9244	0.10	2.90E-05
2591	0.10	5.08E-03	3040	0.10	2.88E-04	5405	0.10	1.30E-03	9257	-0.10	2.39E-03
2608	-0.10	1.47E-03	3044	0.20	3.31E-09	5414	0.10	1.08E-03	9259	0.10	1.90E-03
2613	0.10	1.26E-03	3048	-0.10	5.05E-08	5419	-0.10	5.71E-04	9269	0.10	3.33E-08
2633	0.20	4.43E-06	3057	0.10	4.95E-05	5423	-0.10	4.46E-03	9281	0.10	2.82E-08
2636	-0.10	4.06E-03	3065	0.10	9.75E-03	5432	-0.10	1.66E-07	9289	0.10	1.94E-03
2639	-0.10	8.45E-05	3077	-0.10	8.73E-04	5455	0.10	4.98E-06	9290	0.10	4.26E-08
2645	0.10	1.18E-03	3079	0.10	3.88E-06	5465	-0.10	7.76E-04	9304	-0.10	4.05E-03

2649	0.10	6.68E-04	3084	0.10	8.59E-05	5470	0.10	9.94E-03	9305	-0.10	9.12E-04
2650	-0.10	1.49E-04	3109	-0.10	6.74E-03	5473	0.10	2.67E-08	9314	-0.10	3.32E-03
191											
2668	0.10	2.62E-03	3111	-0.10	1.08E-03	5480	-0.10	2.95E-04	9327	0.10	4.25E-05
7161	0.10	5.47E-04	3112	-0.10	2.21E-03	5495	-0.10	1.16E-04	9336	-0.10	6.73E-03
7165	0.10	1.43E-04	3114	-0.10	2.91E-03	5501	-0.20	1.60E-17	9342	0.10	6.22E-06
7166	0.10	4.78E-03	3116	-0.10	1.46E-04	5502	-0.10	2.49E-17	9347	0.00	6.83E-03
7190	-0.10	1.31E-07	3119	-0.10	7.00E-03	5505	0.10	1.23E-03	9348	0.00	6.74E-03
7195	0.10	1.43E-03	3120	0.10	3.61E-05	5509	-0.10	4.93E-03	9355	-0.10	2.01E-05
7199	0.10	8.30E-03	3124	0.10	7.41E-09	5513	0.10	1.76E-03	9361	0.10	4.59E-03
7204	-0.10	4.06E-06	3125	0.10	1.94E-06	5514	-0.10	1.67E-03	9362	-0.10	7.47E-03
7208	0.10	5.35E-03	3142	-0.10	3.38E-03	5522	0.10	8.10E-06	9367	0.10	6.12E-04
7209	-0.10	7.11E-04	3143	0.10	1.64E-07	5527	-0.10	3.30E-07	9368	-0.10	5.71E-08
7223	0.10	3.86E-06	3151	0.10	1.32E-03	5560	0.10	3.28E-03	9369	-0.10	1.52E-03
7225	0.10	3.39E-04	3152	-0.10	7.03E-03	5565	-0.10	1.81E-04	9371	0.10	1.19E-06
7229	-0.10	5.81E-04	3153	0.10	3.69E-03	5570	-0.10	5.82E-09	9373	-0.10	6.58E-03
7230	-0.10	2.89E-03	3165	0.10	4.63E-08	5576	-0.10	9.57E-03	9376	-0.10	5.54E-10
7231	-0.10	9.29E-04	3167	0.10	1.79E-08	5577	-0.10	2.52E-03	9383	0.10	2.08E-09
7233	-0.10	1.10E-03	3168	-0.10	3.22E-04	5579	0.10	1.36E-04	9388	0.10	3.59E-04
7238	0.10	4.93E-05	3184	-0.10	3.06E-07	5581	0.10	6.79E-03	9391	0.20	3.96E-06
7239	0.10	8.35E-04	3189	0.10	4.54E-07	5583	0.10	6.66E-03	9394	0.10	3.29E-03
7248	0.10	4.83E-06	3190	-0.10	1.14E-03	5585	-0.10	2.24E-04	9397	0.10	1.18E-04
7251	-0.10	2.69E-04	3200	-0.10	2.07E-03	5590	-0.10	2.16E-06	9402	0.10	2.46E-07
7279	0.10	4.75E-10	3201	0.10	3.56E-05	5594	0.10	7.37E-04	9410	-0.10	3.62E-03
7289	-0.10	5.75E-04	3206	-0.10	5.31E-03	5595	0.20	1.98E-03	9411	-0.10	6.72E-04
7294	-0.10	2.67E-03	3218	0.10	5.26E-08	5596	0.10	4.87E-03	9415	0.10	1.91E-03
7321	-0.10	6.98E-03	3241	0.10	1.92E-05	5597	0.10	6.24E-03	9421	0.10	9.99E-03
7345	-0.10	4.34E-08	3254	0.10	5.27E-03	5599	0.10	9.39E-03	9424	0.10	8.00E-03
7355	0.10	3.54E-03	3258	-0.10	1.98E-03	5602	0.10	7.78E-07	9434	0.10	1.42E-04
7358	-0.10	5.05E-05	3260	0.10	1.36E-03	5605	0.10	4.43E-03	9445	0.10	1.29E-08
7360	0.10	3.39E-03	3266	0.00	6.34E-03	5606	0.10	7.63E-03	9460	0.10	2.40E-03
7370	0.10	7.51E-03	3282	0.10	4.86E-04	5608	0.10	1.32E-06	9461	-0.10	7.22E-04
7373	0.10	2.02E-03	3291	0.10	5.48E-04	5623	-0.10	2.19E-05	9463	-0.10	1.78E-04
7376	-0.10	3.06E-07	3302	-0.10	2.63E-04	5624	0.10	1.33E-03	9468	0.10	8.17E-03
7388	0.10	3.52E-07	3303	-0.10	2.74E-04	5627	-0.10	5.67E-03	9476	0.10	6.48E-06
7390	-0.10	1.75E-04	3306	0.10	5.50E-03	5632	-0.10	1.63E-03	9478	-0.10	4.82E-04
7396	-0.10	6.19E-03	3312	0.10	7.98E-05	5639	0.10	3.30E-06	9486	0.10	2.15E-03
7398	-0.10	1.35E-03	3313	0.10	6.06E-05	5666	0.10	3.44E-03	9507	-0.10	2.64E-03
7403	0.10	1.09E-03	3322	0.10	5.17E-03	5670	0.10	1.84E-03	9517	0.10	3.04E-03
7404	0.10	8.58E-04	3338	-0.10	2.09E-04	5674	0.10	2.71E-10	9519	-0.10	8.20E-03
7426	-0.10	4.41E-04	3353	-0.10	1.76E-06	5677	0.00	9.13E-03	9527	-0.10	1.09E-03
7430	0.10	2.93E-11	3366	0.20	1.23E-03	5682	-0.10	7.66E-04	9530	0.10	3.43E-04

7434	-0.10	1.09E-08	3371	-0.10	4.72E-07	5704	-0.10	5.97E-09	9533	0.10	1.04E-03
7437	-0.10	6.05E-04	3372	0.00	8.17E-03	5708	0.10	2.06E-04	9534	0.10	1.05E-03
7441	0.10	3.27E-03	3379	0.10	4.95E-04	5710	-0.10	9.06E-07	9538	0.10	2.56E-07
7448	0.10	4.38E-05	3394	-0.10	6.05E-07	5711	0.10	2.11E-04	9567	-0.10	3.85E-04
7449	0.10	8.80E-04	3396	0.10	1.70E-06	5719	-0.10	4.61E-04	9569	-0.10	1.14E-03
7453	0.00	9.63E-03	3405	0.10	7.01E-03	5746	-0.10	3.24E-03	9582	-0.10	1.04E-04
7460	-0.10	3.81E-09	3420	-0.10	3.54E-07	5752	-0.10	3.88E-04	9589	-0.10	1.74E-05
7472	-0.10	1.85E-03	3428	0.10	3.86E-04	5753	0.10	6.37E-03	9590	0.00	9.12E-03
7493	0.00	9.05E-03	3437	0.10	3.53E-06	5754	0.10	1.47E-08	9598	0.10	9.83E-06
7503	0.10	1.89E-04	3438	0.00	9.29E-03	5757	-0.10	2.76E-03	9608	0.10	1.14E-03
7506	0.10	1.75E-04	3455	0.10	5.45E-04	5759	0.00	4.88E-04	9609	-0.10	2.09E-04
7507	0.10	2.54E-03	3467	-0.10	5.92E-05	5768	0.10	8.31E-03	9612	-0.10	3.77E-03
7509	-0.10	1.71E-03	3480	0.10	5.30E-04	5785	0.10	4.86E-03	9617	0.10	4.91E-04
7515	0.20	2.51E-10	3483	-0.10	2.14E-03	5788	0.10	8.60E-03	9625	-0.10	8.00E-03
7516	0.10	1.19E-10	3485	0.20	3.52E-20	5792	-0.10	3.80E-03	9627	0.20	2.76E-05
7517	0.10	6.60E-04	3489	-0.10	4.34E-06	5798	0.10	9.55E-04	9630	-0.10	6.66E-03
7524	0.10	2.92E-04	3491	-0.10	1.34E-05	5806	0.10	1.61E-06	9636	0.20	1.93E-08
7525	0.10	4.68E-04	3493	0.10	4.07E-04	5819	0.10	1.08E-03	9638	0.10	1.01E-04
7533	-0.10	5.66E-04	3503	0.10	6.59E-04	5821	0.10	1.00E-07	9645	-0.10	2.40E-08
7545	-0.10	2.94E-04	3511	-0.10	2.97E-03	5823	0.10	1.85E-03	9649	0.10	8.18E-03
7548	0.10	1.60E-08	3514	0.10	1.06E-03	5824	0.10	3.07E-03	9660	0.10	2.09E-03
7552	-0.10	1.08E-03	3527	-0.10	6.72E-03	5825	0.10	2.66E-04	9662	0.10	6.03E-03
7559	-0.10	3.04E-03	3539	-0.10	1.53E-03	5832	0.10	7.04E-03	9682	0.10	1.53E-04
7564	0.10	6.43E-09	3540	0.10	4.53E-03	5838	0.10	4.60E-07	9684	-0.10	2.89E-07
192											
7570	0.10	1.25E-03	3541	-0.10	6.31E-06	5841	-0.10	6.80E-03	9692	0.10	9.02E-03
7584	-0.10	7.24E-04	3546	0.10	3.24E-04	5856	-0.10	5.09E-08	9701	0.10	3.49E-03
7597	0.10	4.50E-04	3548	0.20	4.86E-05	5870	-0.10	9.44E-04	9703	-0.10	7.31E-04
7601	0.10	8.43E-03	3550	-0.10	3.51E-05	5871	-0.10	4.84E-03	9704	-0.10	9.96E-03
7605	0.10	1.57E-03	3554	-0.10	1.38E-05	5872	-0.10	2.02E-04	9707	0.10	4.94E-03
7609	-0.10	7.13E-04	3558	0.10	2.20E-03	5877	-0.10	4.95E-03	9711	0.10	2.65E-04
7611	0.00	9.28E-03	3561	0.10	6.32E-04	5880	-0.10	1.86E-05	9713	-0.20	7.03E-09
7619	-0.10	2.98E-06	3570	0.10	3.27E-03	5887	0.10	1.05E-03	9716	-0.10	1.78E-08
7635	0.10	1.85E-04	3575	0.20	9.83E-05	5890	0.10	7.72E-08	9723	-0.10	6.58E-05
7640	0.10	5.51E-03	3585	0.10	2.01E-06	5892	-0.10	6.37E-03	9733	-0.10	1.91E-03
7648	0.10	1.03E-03	3586	-0.10	7.65E-03	5895	-0.10	8.37E-03	9738	0.10	2.66E-05
7649	0.10	1.73E-03	3587	-0.10	1.15E-04	5897	0.10	4.26E-03	9744	0.10	4.53E-03
7652	0.10	1.47E-05	3593	0.10	8.48E-07	5898	0.10	4.04E-05	9746	-0.10	4.54E-04
7656	-0.10	3.56E-03	3597	0.10	1.30E-03	5901	0.10	1.81E-04	9758	0.20	2.92E-04
7657	-0.10	1.36E-03	3601	0.10	8.32E-05	5904	-0.10	5.52E-10	9774	0.10	6.11E-06
7659	0.10	4.13E-04	3615	-0.10	1.09E-06	5906	-0.10	5.04E-07	9777	-0.10	1.50E-03
7660	-0.10	9.58E-03	3618	-0.10	8.86E-09	5913	0.20	6.80E-05	9801	0.10	4.98E-04

7676	0.10	1.07E-04	3625	-0.10	5.31E-06	5914	-0.10	1.04E-09	9806	-0.10	3.11E-04
7689	-0.10	1.19E-05	3626	0.10	2.77E-03	5915	0.10	2.53E-04	9823	-0.10	4.03E-05
7690	0.10	2.62E-04	3653	-0.10	3.28E-07	5924	0.10	2.59E-03	9837	0.10	1.12E-04
7691	0.10	2.40E-04	3661	0.10	5.24E-07	5929	0.10	9.54E-04	9838	0.10	1.30E-05
7693	0.10	9.67E-03	3666	0.10	1.02E-04	5930	0.10	5.59E-08	9847	-0.10	9.85E-06
7708	0.10	1.30E-03	3668	-0.10	7.05E-07	5939	0.10	1.11E-03	9851	0.10	7.79E-03
7721	0.10	1.04E-06	3673	-0.10	1.57E-03	5942	-0.10	7.96E-05	9855	0.10	8.00E-03
7722	0.20	7.16E-07	3683	0.10	6.03E-03	5956	0.10	5.28E-03	9858	0.10	1.15E-03
7737	0.00	9.45E-03	3705	-0.10	1.40E-05	5966	-0.10	4.41E-09	9859	0.10	4.86E-05
7742	0.10	1.68E-07	3706	0.10	1.37E-05	5968	0.10	3.30E-08	9866	0.10	4.63E-03
7745	0.00	5.64E-03	3714	0.00	5.12E-04	5970	-0.10	3.43E-07	9873	-0.10	5.92E-04
7748	0.20	3.33E-05	3715	-0.10	7.03E-05	5971	-0.10	1.51E-05	9874	0.10	7.64E-03
7750	-0.10	6.45E-03	3716	-0.10	4.45E-05	5979	-0.10	1.59E-06	9876	-0.10	1.50E-07
7751	-0.10	1.24E-03	3722	-0.10	3.32E-06	5982	-0.10	1.36E-04	9879	-0.10	2.35E-06
7753	-0.10	3.83E-03	3726	-0.10	4.16E-03	5992	0.10	6.51E-09	9882	-0.10	6.66E-03
7754	-0.10	1.37E-05	3729	0.10	3.44E-09	5994	-0.10	2.61E-03	9908	-0.10	4.01E-03
7755	-0.10	1.28E-05	3737	0.20	4.46E-05	5995	-0.10	2.94E-03	9922	0.10	5.13E-03
7759	0.10	3.26E-03	3742	0.10	1.06E-04	5996	-0.10	3.78E-03	9924	-0.10	1.79E-03
7770	-0.10	1.35E-03	3751	0.10	2.63E-03	5997	-0.10	3.99E-03	9925	-0.10	3.15E-04
7777	0.10	2.05E-03	3753	0.10	2.92E-09	5998	0.10	2.69E-05	9946	-0.10	7.35E-05
7785	0.10	1.21E-03	3759	0.10	2.36E-06	6015	0.10	5.84E-04	9950	0.10	2.52E-04
7789	-0.10	3.85E-04	3760	-0.10	4.65E-06	6016	0.00	6.01E-03	9961	-0.20	4.05E-16
7790	0.10	1.62E-06	3771	-0.10	2.22E-04	6029	0.10	2.34E-04	9964	-0.10	8.73E-04
7808	0.10	1.27E-03	3776	0.10	1.94E-09	6031	-0.10	1.82E-04	9981	-0.10	6.35E-03
7810	0.10	1.47E-05	3779	-0.10	1.85E-05	6036	0.10	3.03E-09	9982	0.10	2.24E-04
7815	0.10	2.26E-03	3788	0.10	7.69E-03	6045	0.10	1.11E-03	9994	-0.10	3.34E-03
7823	-0.10	2.31E-04	3789	0.10	4.60E-04	6057	0.10	6.92E-04	9995	-0.10	2.44E-06
7824	0.10	5.50E-03	3793	0.10	4.10E-08	6074	0.00	6.80E-03	10000	0.10	2.68E-04
7827	0.10	1.65E-05	3796	0.10	1.63E-06	6086	0.10	2.06E-05	10011	0.10	1.10E-05
7828	0.10	1.29E-07	3797	0.10	1.53E-06	6087	0.10	8.03E-03	10015	0.10	1.56E-04
7843	-0.10	5.83E-04	3803	0.10	9.87E-04	6088	0.10	8.28E-03	10018	-0.10	5.70E-03
7854	0.10	6.08E-03	3808	0.10	5.17E-03	6096	-0.10	5.00E-04	10023	0.10	6.56E-06
7857	0.10	7.21E-04	3819	0.10	9.12E-04	6098	-0.10	4.22E-03	10026	0.10	3.78E-05
7858	0.10	5.19E-05	3830	-0.10	1.24E-04	6102	0.00	8.42E-03	10035	-0.10	2.67E-04
7860	0.10	7.00E-08	3839	-0.10	5.16E-03	6103	0.10	8.18E-04	10039	0.10	1.67E-04
7861	0.10	4.41E-03	3847	0.10	1.40E-06	6104	0.10	2.80E-03	10044	0.00	7.59E-03
7862	-0.10	3.06E-03	3852	-0.10	5.54E-04	6109	0.10	2.92E-03	10053	0.10	4.00E-04
7871	-0.10	1.02E-05	3859	0.10	6.30E-04	6111	0.10	1.04E-06	10056	-0.10	1.42E-04
7879	0.10	2.28E-03	3864	0.10	3.51E-05	6117	0.10	1.14E-05	10059	0.10	7.20E-07
7889	0.10	4.44E-03	3879	0.10	1.78E-06	6124	-0.10	6.89E-03	10067	-0.10	1.49E-04
7895	-0.10	8.32E-04	3884	0.10	3.03E-07	6142	0.10	2.17E-03	10071	0.00	8.23E-03
7899	0.10	4.88E-04	3886	-0.10	5.73E-10	6143	0.10	2.31E-03	10074	0.10	1.15E-03

7900	0.10	4.95E-04	3902	0.10	2.61E-06	6145	0.10	1.01E-06	10080	0.10	3.27E-04
7915	-0.10	1.46E-04	3904	0.10	4.72E-07	6147	0.10	6.50E-03	10084	-0.10	4.92E-05
7916	-0.10	4.05E-11	3909	0.10	5.10E-05	6154	0.10	5.46E-09	10092	0.10	4.84E-03
7927	-0.10	2.10E-04	3914	0.10	1.35E-10	6158	0.10	4.27E-04	10096	0.00	8.42E-03
193											
7934	-0.10	7.99E-03	3919	-0.20	8.82E-04	6169	0.10	4.12E-03	10105	0.10	1.51E-03
7950	0.10	5.36E-03	3922	0.10	8.05E-11	6170	-0.10	2.54E-03	10115	0.10	3.00E-08
7965	-0.10	1.35E-09	3924	-0.10	1.06E-11	6176	0.10	1.22E-03	10117	0.10	4.15E-04
7966	0.10	6.10E-04	3929	-0.10	3.52E-03	6193	-0.10	1.96E-03	10132	-0.10	1.18E-04
7974	-0.10	2.48E-03	3937	0.10	3.30E-04	6197	-0.10	6.46E-03	10139	0.10	1.64E-08
7976	-0.10	7.26E-03	3938	-0.10	2.23E-04	6198	-0.10	6.79E-03	10148	0.10	1.49E-05
7981	-0.10	4.34E-05	3940	-0.10	8.48E-06	6201	0.00	9.96E-03	10150	0.10	3.53E-05
7982	-0.10	8.35E-03	3947	0.10	3.09E-03	6204	0.10	1.03E-03	10151	0.10	9.41E-06
7997	-0.10	4.11E-03	3951	-0.10	1.06E-03	6206	-0.10	4.76E-03	10160	-0.10	6.81E-11
8006	0.10	1.44E-04	3959	-0.10	5.00E-03	6219	-0.10	7.15E-07	10161	0.10	6.43E-06
8007	0.10	1.47E-03	3965	0.10	7.46E-03	6225	-0.10	6.32E-03	10162	0.10	6.33E-07
8008	0.10	1.52E-03	3980	-0.10	9.03E-03	6233	0.10	5.99E-03	10176	-0.10	3.71E-03
8009	0.10	5.51E-05	4006	0.10	4.33E-03	6241	0.00	4.03E-03	10177	-0.10	1.02E-10
8012	0.10	4.33E-03	4007	0.10	3.77E-03	6243	-0.10	6.76E-03	10187	0.10	2.34E-04
8013	0.10	3.71E-03	4011	-0.10	7.89E-10	6245	-0.10	1.49E-06	10200	-0.10	1.47E-08
8018	-0.10	6.96E-03	4014	0.10	1.43E-04	6246	0.10	2.76E-03	10204	-0.10	3.66E-03
8024	0.10	9.54E-08	4025	-0.10	4.67E-08	6249	-0.10	3.29E-05	10208	-0.10	7.49E-04
8032	0.10	5.35E-06	4030	0.10	8.80E-04	6250	0.10	2.61E-04	10212	0.10	1.62E-03
8034	-0.10	4.13E-03	4032	-0.10	5.50E-03	6253	0.10	2.05E-04	10225	-0.10	2.33E-03
8035	-0.10	4.81E-03	4044	0.10	1.19E-04	6258	0.10	6.85E-03	10228	0.10	5.39E-03
8037	0.10	9.82E-04	4050	-0.10	2.85E-04	6261	-0.10	3.68E-05	10237	0.10	6.13E-03
8044	-0.10	4.94E-09	4051	0.10	4.66E-06	6263	0.10	7.19E-03	10241	-0.10	4.86E-04
8048	0.10	9.22E-06	4052	0.10	9.41E-06	6266	0.10	3.84E-03	10245	-0.10	2.80E-04
8054	0.00	7.81E-03	4056	-0.10	2.95E-03	6267	0.10	2.70E-06	10250	0.10	2.56E-04
8055	-0.10	3.50E-04	4070	0.10	6.28E-04	6285	-0.10	5.67E-07	10257	-0.10	6.05E-03
8065	0.10	2.43E-04	4076	0.10	3.02E-05	6297	-0.10	3.81E-03	10262	-0.10	7.35E-04
8078	-0.10	5.63E-07	4081	-0.10	7.49E-03	6303	-0.10	3.35E-17	10272	-0.10	1.87E-08
8081	-0.10	1.29E-03	4083	-0.10	6.76E-05	6304	-0.10	2.55E-17	10274	0.10	1.31E-04
8085	0.10	1.54E-05	4084	-0.10	5.32E-03	6305	-0.10	7.90E-03	10276	0.10	5.11E-03
8086	-0.10	1.96E-03	4088	0.10	3.16E-06	6310	-0.10	8.93E-07	10277	0.10	5.44E-03
8087	0.10	1.44E-04	4121	0.10	6.33E-09	6328	0.10	4.33E-03	10283	0.10	2.03E-06
8094	-0.10	2.05E-05	4130	0.10	6.11E-05	6329	0.10	4.95E-03	10287	0.10	1.62E-04
8095	0.10	3.66E-04	4134	0.10	4.12E-05	6330	0.10	2.42E-03	10289	-0.10	2.16E-04
8100	-0.10	7.54E-08	4137	-0.10	1.37E-03	6333	-0.10	1.12E-03	10290	-0.10	1.30E-03
8102	0.10	1.17E-04	4150	-0.10	8.38E-03	6337	0.10	3.40E-08	10291	0.10	1.63E-03
8110	0.10	1.05E-04	4153	-0.10	3.77E-03	6340	0.10	4.04E-04	10292	0.10	1.17E-03
8111	0.10	5.27E-03	4165	0.10	2.56E-04	6342	-0.10	9.50E-03	10311	0.20	1.96E-04

8119	0.10	9.37E-04	4166	0.10	8.56E-07	6343	-0.10	1.11E-03	10315	0.10	1.18E-03
8123	0.00	1.18E-03	4182	-0.10	6.30E-03	6346	0.10	1.84E-03	10317	0.10	5.87E-07
8127	-0.10	3.70E-03	4184	0.10	1.24E-03	6349	0.10	3.84E-03	10333	-0.10	8.70E-04
8149	-0.10	8.69E-04	4187	-0.10	5.37E-03	6351	0.10	3.73E-04	10341	0.10	4.49E-03
8150	-0.10	1.95E-04	4191	-0.10	2.79E-04	6365	0.10	6.63E-05	10346	0.10	3.88E-03
8151	-0.10	9.91E-03	4202	-0.10	7.97E-10	6373	0.00	7.58E-03	10350	0.00	4.06E-03
8153	0.10	3.75E-03	4211	-0.10	1.07E-03	6381	0.10	1.19E-12	10353	-0.10	5.25E-04
8159	0.10	5.99E-06	4212	0.10	1.24E-05	6388	0.10	1.55E-05	10355	-0.10	6.65E-03
8161	-0.10	4.03E-03	4214	0.10	1.37E-03	6398	0.10	3.48E-08	10358	0.10	1.42E-04
8163	0.10	9.62E-04	4215	-0.10	8.15E-03	6408	-0.10	1.28E-03	10370	-0.10	2.79E-03
8166	-0.10	2.13E-03	4217	-0.10	2.16E-04	6411	0.10	1.72E-04	10373	0.10	7.06E-04
8168	0.10	3.45E-04	4219	-0.10	5.42E-03	6415	0.10	5.25E-07	10374	0.10	7.95E-04
8173	-0.10	1.66E-04	4230	-0.10	3.73E-04	6416	-0.10	7.82E-07	10386	0.10	2.45E-03
8193	-0.10	1.06E-03	4231	-0.10	4.70E-03	6418	0.10	1.81E-04	10387	0.10	2.19E-03
8203	0.10	1.00E-04	4234	0.10	3.50E-05	6420	0.00	8.59E-03	10404	0.10	3.61E-04
8206	0.10	4.52E-03	4236	-0.10	3.73E-04	6429	-0.10	6.71E-03	10408	0.10	3.05E-08
8208	0.00	5.19E-03	4246	0.10	1.92E-07	6434	-0.10	1.33E-07	10423	-0.10	6.68E-05
8210	0.10	7.55E-03	4248	0.10	1.44E-03	6436	-0.10	2.73E-07	10426	0.10	5.08E-03
8212	0.10	3.19E-04	4254	0.10	2.17E-05	6437	-0.10	6.70E-03	10427	0.10	7.18E-03
8233	0.10	3.31E-05	4259	-0.10	6.71E-06	6438	-0.10	1.07E-03	10438	-0.10	5.87E-17
8240	0.10	2.10E-05	4261	0.10	5.77E-04	6439	0.10	5.84E-03	10441	-0.10	9.43E-04
8259	0.00	1.86E-03	4266	0.10	7.76E-03	6452	0.10	1.14E-06	10444	0.10	1.33E-10
8261	-0.10	1.04E-03	4268	0.10	2.17E-03	6455	-0.10	7.28E-05	10448	0.10	1.15E-03
8264	0.10	4.24E-04	4271	0.10	1.58E-03	6459	-0.10	3.33E-03	10453	0.10	2.33E-03
8267	0.10	3.02E-04	4277	0.10	2.34E-04	6460	0.10	7.04E-03	10462	-0.10	9.04E-05
8270	0.10	6.89E-05	4278	0.10	1.22E-09	6461	0.10	4.78E-05	10480	0.10	4.19E-04
194											
8274	-0.10	6.85E-04	4297	-0.10	1.67E-05	6464	0.10	1.82E-06	10481	-0.10	2.00E-03
8276	0.10	2.47E-04	4299	0.10	8.56E-05	6469	-0.10	6.96E-03	10487	0.10	8.37E-04
8286	-0.10	6.97E-03	4301	0.10	2.27E-03	6473	0.10	1.29E-04	10488	-0.10	6.19E-05
8287	0.10	3.34E-11	4306	0.10	1.79E-04	6475	0.10	6.44E-03	10498	0.10	1.05E-04
8289	0.10	2.33E-03	4313	-0.10	6.93E-04	6483	0.10	3.32E-03	10505	0.00	7.26E-03
8300	0.10	7.83E-06	4314	-0.10	1.25E-04	6485	0.10	5.64E-06	10506	0.10	1.81E-03
8301	-0.10	4.82E-03	4321	0.10	9.03E-05	6505	0.10	8.76E-05	10510	0.00	1.70E-03
8317	-0.10	2.37E-03	4331	0.10	1.27E-03	6509	0.10	5.24E-04	10515	0.10	6.58E-03
8321	0.10	1.33E-04	4334	-0.10	7.35E-09	6523	0.10	6.89E-07	10516	-0.10	3.03E-05
8323	0.10	5.72E-06	4336	-0.10	8.33E-03	6530	0.10	3.59E-09	10520	0.10	3.76E-04
8346	0.20	6.45E-05	4337	0.10	5.96E-03	6535	0.10	3.60E-05	10537	0.10	2.40E-04
8353	0.10	2.53E-08	4342	0.10	1.36E-03	6539	0.10	4.90E-04	10538	-0.10	5.21E-03
8361	-0.10	1.71E-04	4352	-0.10	5.09E-04	6542	-0.10	8.71E-03	10547	-0.10	2.35E-04
8365	0.10	5.43E-04	4354	-0.10	2.01E-04	6544	-0.10	1.96E-04	10554	0.10	1.43E-03
8366	0.10	4.87E-04	4357	0.10	4.46E-04	6551	0.10	4.92E-04	10561	0.10	1.28E-03

8383	-0.10	9.86E-03	4362	0.10	1.89E-03	6557	0.00	8.14E-03	10572	0.10	9.80E-03
8386	0.10	1.61E-03	4370	0.10	7.76E-04	6571	0.10	3.15E-04	10578	0.10	6.13E-03
8391	0.10	2.16E-06	4374	0.10	6.93E-07	6572	0.10	1.98E-03	10582	0.00	3.72E-03
8395	0.00	8.79E-03	4385	-0.10	3.41E-09	6580	0.10	4.78E-04	10584	0.10	5.25E-05
8397	-0.10	3.58E-04	4387	0.10	1.80E-03	6582	-0.10	4.03E-03	10593	-0.10	3.26E-04
8417	-0.10	8.21E-04	4400	0.10	4.41E-04	6591	-0.10	1.62E-06	10599	0.10	3.28E-03
8420	-0.10	2.21E-07	4401	0.10	5.00E-08	6599	-0.10	1.98E-03	10601	0.10	3.21E-04
8421	0.10	6.18E-11	4404	-0.10	3.37E-03	6615	-0.10	3.24E-05	10604	0.10	1.01E-10
8427	-0.10	1.86E-04	4411	0.10	3.96E-03	6619	0.10	5.33E-04	10608	0.10	1.09E-05
8436	0.10	7.96E-07	4412	0.10	3.90E-03	6626	0.10	3.92E-04	10613	-0.10	1.84E-04
8441	0.10	3.22E-04	4414	-0.10	8.74E-04	6629	-0.10	1.29E-04	10618	-0.10	4.93E-05
8446	0.10	5.19E-03	4426	0.10	9.81E-03	6633	0.10	1.48E-03	10624	0.10	9.33E-03
8451	0.10	2.27E-03	4446	0.10	3.39E-05	6634	-0.10	5.68E-04	10627	0.10	7.33E-03
8454	0.10	3.66E-03	4454	-0.10	4.86E-05	6635	0.10	7.91E-03	10649	-0.10	5.80E-08
8457	-0.10	3.80E-04	4468	0.10	1.91E-03	6637	0.10	6.92E-03	10668	0.10	5.34E-03
8460	0.10	5.38E-04	4470	-0.10	6.36E-03	6639	-0.10	2.19E-11	10696	0.10	7.30E-03
8465	0.00	5.96E-03	4478	0.10	8.83E-03	6640	0.10	4.35E-04	10711	0.10	1.10E-03
8467	-0.10	5.03E-04	4485	0.10	4.58E-07	6641	-0.10	3.72E-03	10722	-0.10	3.57E-03
8470	0.10	7.13E-04	4486	-0.10	3.48E-03	6643	-0.10	1.43E-03	10724	0.10	1.40E-03
8485	-0.10	1.41E-03	4487	-0.10	2.28E-04	6644	-0.10	4.68E-05	10738	0.10	1.19E-03
8488	-0.10	4.67E-04	4502	-0.10	4.24E-04	6660	0.10	4.25E-03	10744	0.10	1.70E-04
8489	0.10	1.55E-03	4505	-0.10	1.30E-08	6668	-0.10	3.23E-05	10748	-0.10	7.68E-03
8501	-0.10	8.65E-03	4528	0.10	3.14E-06	6672	0.00	4.05E-03	10755	-0.10	2.69E-03
8502	-0.10	6.82E-03	4542	-0.10	4.45E-04	6675	0.10	2.24E-03	10760	0.10	7.90E-03
8503	0.10	1.70E-03	4544	0.10	1.89E-05	6676	0.10	7.14E-08	10767	0.10	6.08E-03
8532	0.10	8.67E-03	4549	-0.10	9.85E-04	6678	-0.10	5.09E-04	10775	0.10	3.12E-07
8539	0.00	9.42E-03	4567	0.10	1.90E-04	6681	-0.10	6.64E-03	10778	-0.10	5.39E-06
8540	-0.10	5.81E-03	4578	-0.10	1.84E-04	6683	0.10	2.34E-04	10792	0.10	1.48E-06
8541	-0.10	2.32E-03	4580	0.10	2.25E-03	6686	-0.10	4.86E-03	10802	-0.10	2.60E-06
8545	0.10	7.77E-03	4581	-0.10	1.43E-05	6690	0.10	5.68E-04	10818	0.10	5.02E-04
8550	0.10	7.40E-03	4583	-0.10	2.90E-04	6706	0.10	8.40E-08	10819	-0.10	7.70E-03
8555	-0.10	8.29E-03	4602	-0.10	9.84E-07	6711	0.10	2.55E-03	10837	-0.10	3.62E-06
8557	0.20	2.25E-05	4606	0.10	3.79E-04	6714	0.10	4.02E-06	10838	-0.10	1.32E-11
8559	-0.10	1.32E-09	4607	0.10	4.62E-04	6715	0.10	2.72E-03	10840	0.10	9.26E-05
8563	-0.10	4.40E-03	4608	0.10	6.18E-03	6722	0.10	8.10E-04	10842	0.10	2.13E-03
8569	0.10	4.42E-04	4615	0.10	4.62E-03	6725	0.10	7.04E-04	10858	0.10	5.47E-03
8576	0.20	3.92E-16	4619	0.10	2.03E-03	6726	0.10	7.50E-05	10872	0.10	3.04E-05
8577	-0.10	4.11E-04	4622	0.10	4.64E-08	6736	-0.10	3.47E-04	10875	0.10	3.60E-04
8589	0.10	4.70E-03	4627	0.10	3.22E-03	6737	0.00	9.77E-03	10900	0.10	1.25E-04
8593	0.10	1.79E-05	4629	-0.10	6.65E-03	6749	0.10	2.58E-03	10911	0.10	2.82E-04
8596	0.10	1.60E-08	4634	0.10	1.52E-06	6755	-0.10	4.78E-03	10913	0.10	4.96E-07
8600	-0.10	5.14E-03	4643	0.00	8.50E-03	6757	0.10	1.67E-06	10917	0.10	6.92E-03

8601	0.10	1.53E-08	4647	-0.10	6.02E-03	6762	0.00	9.77E-03	10926	0.10	2.90E-03
8608	0.20	1.50E-05	4651	-0.10	4.14E-08	6765	-0.10	1.90E-05	10940	0.10	2.32E-03
8610	0.10	2.53E-05	4661	0.10	5.26E-03	6766	0.00	5.16E-03	10948	0.10	7.49E-03
8611	0.10	8.49E-10	4664	-0.10	2.86E-16	6770	0.10	2.51E-05	10950	-0.10	6.09E-05
8616	0.10	6.20E-03	4669	0.10	1.89E-03	6773	0.10	3.72E-03	10961	-0.10	6.62E-03
8621	-0.10	5.10E-03	4670	0.10	3.12E-03	6774	0.10	4.40E-05	10962	0.10	6.92E-03
195											
8632	-0.10	4.79E-08	4677	0.10	6.86E-06	6799	-0.10	8.08E-05	10977	0.10	1.00E-06
8634	0.10	6.08E-03	4678	-0.10	3.06E-05	6806	0.10	3.27E-03	10980	-0.10	8.44E-06
8645	-0.10	8.30E-03	4687	-0.10	5.21E-04	6818	0.10	5.41E-03	10985	0.10	3.09E-09
8662	0.20	1.13E-03	4691	0.10	3.24E-03	6820	0.20	6.36E-08	11012	0.10	3.90E-06
8667	0.20	2.28E-03	4692	0.10	6.44E-05	6821	0.10	6.42E-04	11016	0.10	7.57E-06
8668	0.10	1.70E-04	4827	-0.10	5.92E-05	1808	-0.10	2.95E-03	11204	0.10	6.38E-03
8675	0.10	4.06E-04	4831	0.10	7.53E-03	1813	-0.10	2.30E-04	11219	0.10	5.39E-03
8676	0.10	2.66E-09	4832	-0.10	7.28E-04	1815	0.10	3.81E-03	11224	-0.10	2.37E-03
8677	0.00	9.69E-03	4858	0.10	2.23E-04	1820	0.10	8.62E-08	11244	-0.10	2.39E-03
8679	-0.10	5.42E-03	4861	0.10	8.87E-03	1827	0.10	1.90E-04	11249	0.10	4.33E-04
8683	0.10	5.94E-04	4863	0.10	4.93E-08	1846	0.10	7.83E-03	11254	0.00	1.38E-03
8693	0.10	3.62E-10	4864	0.10	1.43E-04	1847	0.10	1.56E-04	11270	-0.10	1.15E-03
8694	-0.10	6.44E-03	4865	-0.10	9.55E-03	1859	0.10	9.53E-04	11272	0.10	9.69E-03
8699	-0.10	1.64E-03	4866	-0.10	9.02E-03	1862	0.10	1.91E-05	11282	-0.20	4.27E-03
8700	-0.10	1.02E-04	4879	0.10	7.88E-03	1871	0.10	9.23E-06	11291	0.10	1.20E-04
8705	-0.10	1.02E-05	4882	0.10	2.43E-04	1884	0.10	3.65E-05	11292	-0.10	1.04E-04
8707	0.10	5.59E-04	4890	0.10	1.47E-04	1889	0.10	1.10E-05	11302	-0.10	9.51E-04
8708	0.10	5.25E-04	4893	0.00	9.51E-03	1904	-0.10	1.94E-03	11306	0.10	3.59E-04
8710	0.10	9.68E-03	4898	0.00	2.47E-03	1914	-0.10	8.26E-04	11316	0.10	8.63E-03
8717	0.10	2.36E-03	4908	0.10	5.09E-04	1922	0.10	8.58E-06	11323	0.10	4.41E-04
8720	0.10	2.16E-06	4909	0.10	1.89E-03	1924	0.10	7.57E-04	11324	-0.10	5.58E-03
8722	0.10	8.38E-04	4916	0.10	9.24E-03	1928	0.20	1.75E-20	11337	-0.10	9.64E-07
8725	0.10	6.75E-06	4937	-0.10	1.18E-04	1938	0.10	1.42E-07	11340	-0.10	6.98E-05
8726	-0.10	1.66E-04	4953	-0.10	7.27E-03	1939	-0.10	2.74E-03	11352	-0.10	2.54E-06
8728	0.10	2.05E-09	4961	-0.10	3.00E-03	1941	-0.10	1.59E-09	11359	0.10	2.39E-03
8731	-0.10	4.44E-07	4966	-0.10	2.82E-05	1944	-0.10	1.46E-03	11382	0.10	7.06E-03
8733	0.10	3.62E-03	4973	-0.10	1.53E-04	1950	0.10	2.85E-04	11399	0.20	3.61E-18
8735	-0.10	6.35E-03	4977	0.10	1.36E-03	1954	0.10	4.54E-03	11406	0.10	8.51E-06
8744	0.10	8.21E-03	4981	-0.10	5.35E-03	1969	-0.10	2.49E-03	11410	0.10	2.61E-03
8749	-0.10	3.31E-03	4987	0.10	6.60E-03	1971	-0.10	5.44E-04	11417	-0.20	1.87E-28
8757	0.10	1.66E-05	4991	0.10	2.12E-06	1974	0.10	8.89E-09	11427	0.10	7.52E-03
8759	0.10	8.39E-04	4997	-0.10	4.40E-03	1982	-0.10	1.65E-04	11437	0.10	2.46E-03
8761	-0.10	4.43E-05	5003	0.10	7.72E-03	1988	0.10	2.68E-03	11440	0.10	2.65E-03
8765	0.10	1.92E-04	5004	0.10	3.01E-03	1989	-0.10	1.26E-05	11442	-0.10	4.34E-03
8773	0.10	2.70E-03	5005	0.10	3.12E-03	1990	0.10	1.31E-04	11446	-0.10	6.79E-03

8792	0.10	5.76E-05	5025	-0.10	2.07E-07	1993	-0.10	4.80E-04	11447	-0.10	4.27E-03
8805	0.10	4.30E-04	5037	0.10	9.85E-08	1999	-0.10	5.61E-03	11462	-0.10	3.50E-06
8822	0.10	5.84E-03	5046	0.10	1.57E-05	2009	0.10	3.26E-04	11467	0.10	6.91E-04
8824	0.10	2.69E-03	5051	-0.10	7.26E-03	2011	0.10	3.92E-04	11471	-0.10	1.78E-04
8832	0.10	5.49E-05	5060	-0.10	4.35E-03	2018	-0.10	7.94E-04	11485	0.10	9.59E-04
8838	0.10	1.26E-03	5061	0.20	4.03E-06	2019	-0.10	6.13E-05	11494	0.20	1.38E-03
8839	0.10	1.49E-06	5063	0.10	1.68E-03	2035	0.10	3.38E-04	11497	-0.10	6.56E-05
8841	0.10	1.63E-03	5069	-0.10	7.69E-06	2037	0.10	8.48E-04	11499	-0.10	4.17E-07
8847	0.10	3.13E-03	5070	-0.10	3.73E-03	2044	0.10	5.30E-06	11513	0.10	7.87E-03
8848	0.10	4.30E-06	5071	0.00	5.32E-03	2048	-0.10	5.78E-03	11515	0.10	6.34E-05
8849	0.20	1.76E-08	5078	0.10	3.55E-05	2056	0.10	3.80E-08	11521	0.10	9.75E-03
8855	0.10	4.02E-07	5079	-0.10	9.92E-10	2074	0.10	9.45E-03	11551	0.10	1.77E-03
8867	-0.10	3.04E-03	5083	-0.10	3.00E-03	2075	0.10	3.80E-04	6822	0.10	6.84E-04
8877	0.10	3.83E-05	5088	-0.10	4.45E-06	2077	-0.10	1.15E-09	6823	0.10	6.64E-04
8893	-0.10	1.98E-03	5093	0.10	2.81E-08	2092	0.10	9.20E-03	6824	0.10	4.50E-03
8898	0.10	5.37E-03	15008	0.10	5.19E-03	2093	0.10	7.16E-06	6830	0.10	5.80E-03
8899	0.10	7.26E-03	15012	0.20	2.48E-05	2094	0.10	1.07E-08	6839	-0.10	9.43E-07
8908	0.10	1.86E-03	15022	0.10	3.08E-03	2096	0.10	3.29E-04	6845	-0.10	7.26E-03
8909	0.10	4.05E-03	15033	0.10	1.91E-03	2110	-0.10	7.88E-04	6849	0.10	4.49E-04
8910	-0.10	3.04E-07	15042	0.10	3.01E-06	2114	0.10	3.79E-04	6856	0.10	1.18E-08
8911	-0.10	1.65E-06	15060	0.10	2.43E-04	2136	0.10	2.14E-08	6858	-0.10	2.30E-03
8912	-0.10	1.10E-03	15062	0.20	2.27E-06	2137	-0.10	2.88E-05	6862	0.10	2.49E-03
8914	-0.10	9.30E-04	15079	0.10	2.81E-04	2140	-0.10	9.14E-03	6864	0.10	2.30E-04
8915	0.10	6.50E-07	15086	0.10	2.25E-04	2145	0.10	1.51E-05	6879	0.10	2.84E-03
8916	0.10	5.93E-07	15110	0.10	1.76E-05	2195	0.10	6.30E-03	6882	0.10	6.92E-03
8919	0.10	3.42E-04	15115	0.10	4.81E-03	2200	0.10	6.61E-06	6886	0.10	3.15E-04
8922	0.10	2.07E-03	15128	-0.10	1.52E-03	2215	-0.10	1.26E-03	6889	0.10	1.65E-07
8927	0.10	2.65E-04	15138	-0.10	2.64E-03	2218	-0.10	3.21E-05	6895	-0.10	5.25E-05
196											
8954	-0.10	2.86E-11	15150	-0.10	1.22E-04	2227	0.10	1.19E-04	6898	-0.10	2.32E-03
8957	-0.10	1.14E-03	15164	-0.10	4.12E-03	2250	0.10	3.56E-06	6899	-0.10	5.37E-03
8959	0.10	9.25E-04	15172	-0.10	1.04E-03	2251	0.10	4.99E-06	6904	0.00	1.46E-04
8970	0.10	3.08E-05	15182	-0.10	2.06E-03	2261	0.10	1.44E-04	6906	0.10	2.56E-03
8973	0.10	1.33E-03	15184	0.10	2.66E-04	2284	0.10	2.69E-08	6907	0.10	2.07E-03
8974	0.10	1.25E-03	15204	0.10	4.06E-04	2285	0.10	3.19E-04	6936	0.10	5.25E-03
15331	0.10	1.26E-03	15206	-0.10	7.28E-03	7151	-0.10	8.13E-03	6939	-0.10	7.67E-04
15333	-0.10	4.76E-04	15211	0.10	1.71E-05	14908	-0.10	3.71E-03	6952	0.10	7.39E-04
15351	-0.10	1.09E-04	15243	0.10	1.74E-05	14925	0.00	7.91E-03	6953	-0.10	1.66E-08
149	0.02	5.00E-02	15244	0.10	2.08E-05	14937	-0.10	7.72E-05	6957	0.10	2.75E-03
462	-0.04	5.00E-02	15252	-0.10	3.20E-03	14966	0.10	2.85E-08	6960	0.10	2.71E-03
921	-0.06	5.00E-02	15260	0.10	2.60E-04	14973	-0.10	3.00E-03	6962	-0.10	1.19E-03
956	-0.02	5.00E-02	15307	0.00	7.77E-03	14974	0.10	1.52E-06	6967	0.10	1.12E-03

1323	-0.06	5.00E-02
1461	-0.02	5.00E-02
1733	0.02	5.00E-02
1973	0.02	5.00E-02
1998	-0.03	5.00E-02
2070	-0.09	5.00E-02
2153	0.02	5.00E-02
2180	-0.03	5.00E-02
2213	-0.04	5.00E-02
2530	-0.16	5.00E-02
2663	-0.02	5.00E-02
2904	0.14	5.00E-02
2958	-0.14	5.00E-02
3017	-0.03	5.00E-02
3364	0.02	5.00E-02
3537	0.05	5.00E-02
3781	-0.08	5.00E-02
3867	0.11	5.00E-02
4124	-0.06	5.00E-02
5869	0.04	5.00E-02
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0.11	0.11	0.11	0.11
-0.17	-0.17	-0.17	-0.17
-0.13	-0.13	-0.13	-0.13
0.07	0.07	0.07	0.07
0.18	0.18	0.18	0.18
-0.11	-0.11	-0.11	-0.11
0.14	0.14	0.14	0.14
-0.13	-0.13	-0.13	-0.13
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-0.08	-0.08	-0.08	-0.08

-0.11	-0.11	-0.11	-0.11
0.13	0.13	0.13	0.13
0.07	0.07	0.07	0.07
-0.14	-0.14	-0.14	-0.14
-0.10	-0.10	-0.10	-0.10
0.10	0.10	0.10	0.10
0.11	0.11	0.11	0.11
0.12	0.12	0.12	0.12
-0.13	-0.13	-0.13	-0.13
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-0.12	-0.12	-0.12	-0.12
-0.09	-0.09	-0.09	-0.09
-0.10	-0.10	-0.10	-0.10
-0.07	-0.07	-0.07	-0.07
-0.10	-0.10	-0.10	-0.10
0.13	0.13	0.13	0.13
0.10	0.10	0.10	0.10
0.08	0.08	0.08	0.08
-0.14	-0.14	-0.14	-0.14
0.19	0.19	0.19	0.19
0.10	0.10	0.10	0.10
-0.32	-0.32	-0.32	-0.32
0.13	0.13	0.13	0.13
-0.13	-0.13	-0.13	-0.13
0.05	0.05	0.05	0.05
0.13	0.13	0.13	0.13
0.08	0.08	0.08	0.08
-0.13	-0.13	-0.13	-0.13
-0.21	-0.21	-0.21	-0.21
0.09	0.09	0.09	0.09
0.16	0.16	0.16	0.16
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0.09	0.09	0.09	0.09
-0.17	-0.17	-0.17	-0.17
0.13	0.13	0.13	0.13
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0.15	0.15	0.15	0.15
-0.11	-0.11	-0.11	-0.11
-0.08	-0.08	-0.08	-0.08
-0.22	-0.22	-0.22	-0.22
-0.08	-0.08	-0.08	-0.08

-0.27	-0.27	-0.27	-0.27
-0.09	-0.09	-0.09	-0.09
0.09	0.09	0.09	0.09
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0.10	0.10	0.10	0.10
-0.08	-0.08	-0.08	-0.08
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0.11	0.11	0.11	0.11
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-0.09	-0.09	-0.09	-0.09
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-0.17	-0.17	-0.17	-0.17
-0.14	-0.14	-0.14	-0.14
0.06	0.06	0.06	0.06
-0.19	-0.19	-0.19	-0.19
0.11	0.11	0.11	0.11
-0.09	-0.09	-0.09	-0.09
-0.15	-0.15	-0.15	-0.15
-0.10	-0.10	-0.10	-0.10
-0.22	-0.22	-0.22	-0.22
-0.09	-0.09	-0.09	-0.09
-0.20	-0.20	-0.20	-0.20
-0.18	-0.18	-0.18	-0.18
-0.22	-0.22	-0.22	-0.22
-0.08	-0.08	-0.08	-0.08
0.09	0.09	0.09	0.09
-0.10	-0.10	-0.10	-0.10
0.18	0.18	0.18	0.18
0.10	0.10	0.10	0.10
0.12	0.12	0.12	0.12
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0.17	0.17	0.17	0.17
-0.13	-0.13	-0.13	-0.13
-0.09	-0.09	-0.09	-0.09
-0.13	-0.13	-0.13	-0.13
0.19	0.19	0.19	0.19
-0.20	-0.20	-0.20	-0.20
0.14	0.14	0.14	0.14
0.09	0.09	0.09	0.09

0.08	0.08	0.08	0.08
-0.11	-0.11	-0.11	-0.11
0.10	0.10	0.10	0.10
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0.10	0.10	0.10	0.10
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0.12	0.12	0.12	0.12
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-0.17	-0.17	-0.17	-0.17
-0.17	-0.17	-0.17	-0.17
0.18	0.18	0.18	0.18
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-0.17	-0.17	-0.17	-0.17
-0.08	-0.08	-0.08	-0.08
0.20	0.20	0.20	0.20
0.15	0.15	0.15	0.15
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-0.09	-0.09	-0.09	-0.09
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0.10	0.10	0.10	0.10
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-0.13	-0.13	-0.13	-0.13
-0.13	-0.13	-0.13	-0.13
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0.12	0.12	0.12	0.12
0.11	0.11	0.11	0.11
0.07	0.07	0.07	0.07
-0.09	-0.09	-0.09	-0.09
-0.10	-0.10	-0.10	-0.10
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-0.12	-0.12	-0.12	-0.12
0.18	0.18	0.18	0.18
-0.08	-0.08	-0.08	-0.08
-0.17	-0.17	-0.17	-0.17
0.14	0.14	0.14	0.14
0.10	0.10	0.10	0.10
0.09	0.09	0.09	0.09
0.20	0.20	0.20	0.20
0.12	0.12	0.12	0.12
0.15	0.15	0.15	0.15
0.24	0.24	0.24	0.24
0.12	0.12	0.12	0.12
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-0.14	-0.14	-0.14	-0.14
0.17	0.17	0.17	0.17
-0.16	-0.16	-0.16	-0.16
0.09	0.09	0.09	0.09
-0.09	-0.09	-0.09	-0.09
0.09	0.09	0.09	0.09
0.13	0.13	0.13	0.13
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0.15	0.15	0.15	0.15
0.11	0.11	0.11	0.11
0.20	0.20	0.20	0.20
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0.14	0.14	0.14	0.14
0.10	0.10	0.10	0.10
0.15	0.15	0.15	0.15
-0.11	-0.11	-0.11	-0.11
-0.12	-0.12	-0.12	-0.12

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0.15	0.15	0.15	0.15
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0.12	0.12	0.12	0.12
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0.24	0.24	0.24	0.24
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0.08	0.08	0.08	0.08
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0.09	0.09	0.09	0.09
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-0.09	-0.09	-0.09	-0.09
-0.18	-0.18	-0.18	-0.18
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0.14	0.14	0.14	0.14
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0.07	0.07	0.07	0.07

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0.09	0.09	0.09	0.09
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0.12	0.12	0.12	0.12
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0.08	0.08	0.08	0.08
0.08	0.08	0.08	0.08
0.10	0.10	0.10	0.10
0.14	0.14	0.14	0.14
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0.07	0.07	0.07	0.07
0.15	0.15	0.15	0.15
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0.08	0.08	0.08	0.08
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0.07	0.07	0.07	0.07
0.12	0.12	0.12	0.12
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0.10	0.10	0.10	0.10
-0.16	-0.16	-0.16	-0.16
0.08	0.08	0.08	0.08
0.17	0.17	0.17	0.17
0.07	0.07	0.07	0.07
-0.11	-0.11	-0.11	-0.11
0.09	0.09	0.09	0.09
-0.11	-0.11	-0.11	-0.11

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0.11	0.11	0.11	0.11
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0.12	0.12	0.12	0.12
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0.12	0.12	0.12	0.12
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0.09	0.09	0.09	0.09
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0.09	0.09	0.09	0.09
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0.09	0.09	0.09	0.09
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0.11	0.11	0.11	0.11
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0.16	0.16	0.16	0.16
0.21	0.21	0.21	0.21
0.11	0.11	0.11	0.11
0.23	0.23	0.23	0.23
0.12	0.12	0.12	0.12
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-0.15	-0.15	-0.15	-0.15
-0.08	-0.08	-0.08	-0.08
0.07	0.07	0.07	0.07
0.18	0.18	0.18	0.18
0.12	0.12	0.12	0.12
0.13	0.13	0.13	0.13
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0.11	0.11	0.11	0.11
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0.15	0.15	0.15	0.15
0.09	0.09	0.09	0.09

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0.16	0.16	0.16	0.16
0.11	0.11	0.11	0.11
0.19	0.19	0.19	0.19
0.08	0.08	0.08	0.08
0.14	0.14	0.14	0.14
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0.07	0.07	0.07	0.07
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0.14	0.14	0.14	0.14
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0.12	0.12	0.12	0.12
-0.12	-0.12	-0.12	-0.12
0.10	0.10	0.10	0.10
-0.12	-0.12	-0.12	-0.12
0.14	0.14	0.14	0.14
-0.07	-0.07	-0.07	-0.07
-0.15	-0.15	-0.15	-0.15
0.11	0.11	0.11	0.11
-0.24	-0.24	-0.24	-0.24
0.09	0.09	0.09	0.09
-0.11	-0.11	-0.11	-0.11
0.10	0.10	0.10	0.10
-0.19	-0.19	-0.19	-0.19

0.12	0.12	0.12	0.12
-0.15	-0.15	-0.15	-0.15
-0.15	-0.15	-0.15	-0.15
-0.12	-0.12	-0.12	-0.12
-0.15	-0.15	-0.15	-0.15
-0.14	-0.14	-0.14	-0.14
0.10	0.10	0.10	0.10
-0.15	-0.15	-0.15	-0.15
-0.22	-0.22	-0.22	-0.22
0.07	0.07	0.07	0.07
-0.14	-0.14	-0.14	-0.14
-0.07	-0.07	-0.07	-0.07
-0.14	-0.14	-0.14	-0.14
-0.21	-0.21	-0.21	-0.21
-0.27	-0.27	-0.27	-0.27
0.08	0.08	0.08	0.08
0.15	0.15	0.15	0.15
-0.15	-0.15	-0.15	-0.15
0.13	0.13	0.13	0.13
-0.08	-0.08	-0.08	-0.08
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-0.17	-0.17	-0.17	-0.17
-0.14	-0.14	-0.14	-0.14
-0.20	-0.20	-0.20	-0.20
0.11	0.11	0.11	0.11
-0.26	-0.26	-0.26	-0.26
-0.14	-0.14	-0.14	-0.14
-0.15	-0.15	-0.15	-0.15
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0.09	0.09	0.09	0.09
-0.07	-0.07	-0.07	-0.07
0.09	0.09	0.09	0.09
-0.20	-0.20	-0.20	-0.20
-0.17	-0.17	-0.17	-0.17
-0.09	-0.09	-0.09	-0.09
0.07	0.07	0.07	0.07
-0.10	-0.10	-0.10	-0.10
-0.12	-0.12	-0.12	-0.12

-0.13	-0.13	-0.13	-0.13
-0.13	-0.13	-0.13	-0.13
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-0.14	-0.14	-0.14	-0.14
-0.11	-0.11	-0.11	-0.11
0.24	0.24	0.24	0.24
0.08	0.08	0.08	0.08
-0.27	-0.27	-0.27	-0.27
-0.24	-0.24	-0.24	-0.24
-0.21	-0.21	-0.21	-0.21
0.15	0.15	0.15	0.15
-0.20	-0.20	-0.20	-0.20
-0.09	-0.09	-0.09	-0.09
-0.11	-0.11	-0.11	-0.11
0.08	0.08	0.08	0.08
-0.08	-0.08	-0.08	-0.08
0.14	0.14	0.14	0.14
0.15	0.15	0.15	0.15
-0.10	-0.10	-0.10	-0.10
-0.18	-0.18	-0.18	-0.18
0.09	0.09	0.09	0.09
-0.16	-0.16	-0.16	-0.16
0.16	0.16	0.16	0.16
0.13	0.13	0.13	0.13
-0.15	-0.15	-0.15	-0.15
-0.09	-0.09	-0.09	-0.09
0.07	0.07	0.07	0.07
-0.24	-0.24	-0.24	-0.24
-0.12	-0.12	-0.12	-0.12
-0.21	-0.21	-0.21	-0.21
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0.09	0.09	0.09	0.09
0.16	0.16	0.16	0.16
-0.10	-0.10	-0.10	-0.10
0.10	0.10	0.10	0.10
-0.15	-0.15	-0.15	-0.15
0.08	0.08	0.08	0.08
-0.18	-0.18	-0.18	-0.18
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-0.14	-0.14	-0.14	-0.14

0.10	0.10	0.10	0.10
-0.10	-0.10	-0.10	-0.10
0.10	0.10	0.10	0.10
0.13	0.13	0.13	0.13
-0.19	-0.19	-0.19	-0.19
0.09	0.09	0.09	0.09
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0.08	0.08	0.08	0.08
-0.24	-0.24	-0.24	-0.24
-0.19	-0.19	-0.19	-0.19
0.09	0.09	0.09	0.09
-0.21	-0.21	-0.21	-0.21
-0.13	-0.13	-0.13	-0.13
-0.12	-0.12	-0.12	-0.12
-0.08	-0.08	-0.08	-0.08
0.13	0.13	0.13	0.13
0.12	0.12	0.12	0.12
0.10	0.10	0.10	0.10
-0.17	-0.17	-0.17	-0.17
-0.07	-0.07	-0.07	-0.07
-0.16	-0.16	-0.16	-0.16
-0.21	-0.21	-0.21	-0.21
0.07	0.07	0.07	0.07
0.11	0.11	0.11	0.11
0.15	0.15	0.15	0.15
-0.18	-0.18	-0.18	-0.18
0.23	0.23	0.23	0.23
0.18	0.18	0.18	0.18
-0.16	-0.16	-0.16	-0.16
0.07	0.07	0.07	0.07
-0.11	-0.11	-0.11	-0.11
-0.18	-0.18	-0.18	-0.18
-0.11	-0.11	-0.11	-0.11
0.10	0.10	0.10	0.10
0.08	0.08	0.08	0.08
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0.09	0.09	0.09	0.09
0.10	0.10	0.10	0.10
-0.08	-0.08	-0.08	-0.08
-0.08	-0.08	-0.08	-0.08
0.13	0.13	0.13	0.13
0.11	0.11	0.11	0.11

-0.14	-0.14	-0.14	-0.14
-0.11	-0.11	-0.11	-0.11
0.15	0.15	0.15	0.15
-0.26	-0.26	-0.26	-0.26
0.14	0.14	0.14	0.14
0.15	0.15	0.15	0.15
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0.17	0.17	0.17	0.17
0.15	0.15	0.15	0.15
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-0.13	-0.13	-0.13	-0.13
-0.19	-0.19	-0.19	-0.19
0.09	0.09	0.09	0.09
-0.16	-0.16	-0.16	-0.16
-0.09	-0.09	-0.09	-0.09
0.14	0.14	0.14	0.14
0.19	0.19	0.19	0.19
-0.09	-0.09	-0.09	-0.09
0.09	0.09	0.09	0.09
0.08	0.08	0.08	0.08
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-0.09	-0.09	-0.09	-0.09
-0.17	-0.17	-0.17	-0.17
0.09	0.09	0.09	0.09
0.10	0.10	0.10	0.10
0.12	0.12	0.12	0.12
-0.31	-0.31	-0.31	-0.31
0.10	0.10	0.10	0.10
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-0.16	-0.16	-0.16	-0.16
0.23	0.23	0.23	0.23
0.15	0.15	0.15	0.15
0.08	0.08	0.08	0.08

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-0.23	-0.23	-0.23	-0.23
-0.09	-0.09	-0.09	-0.09
0.17	0.17	0.17	0.17
0.10	0.10	0.10	0.10
0.08	0.08	0.08	0.08
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0.15	0.15	0.15	0.15
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-0.11	-0.11	-0.11	-0.11
-0.12	-0.12	-0.12	-0.12
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0.17	0.17	0.17	0.17
-0.16	-0.16	-0.16	-0.16
0.21	0.21	0.21	0.21
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0.07	0.07	0.07	0.07
0.13	0.13	0.13	0.13
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0.09	0.09	0.09	0.09
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0.10	0.10	0.10	0.10
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0.12	0.12	0.12	0.12
0.09	0.09	0.09	0.09
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0.14	0.14	0.14	0.14
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0.16	0.16	0.16	0.16
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-0.15	-0.15	-0.15	-0.15

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0.12	0.12	0.12	0.12
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0.08	0.08	0.08	0.08
0.18	0.18	0.18	0.18
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0.09	0.09	0.09	0.09
0.13	0.13	0.13	0.13
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0.08	0.08	0.08	0.08
0.10	0.10	0.10	0.10
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0.08	0.08	0.08	0.08
0.15	0.15	0.15	0.15

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0.07	0.07	0.07	0.07
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0.07	0.07	0.07	0.07
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-0.08	-0.08	-0.08	-0.08
0.15	0.15	0.15	0.15
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0.08	0.08	0.08	0.08
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0.08	0.08	0.08	0.08
0.15	0.15	0.15	0.15
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0.13	0.13	0.13	0.13
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0.09	0.09	0.09	0.09
0.17	0.17	0.17	0.17
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0.09	0.09	0.09	0.09
0.12	0.12	0.12	0.12
0.08	0.08	0.08	0.08
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0.14	0.14	0.14	0.14
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0.12	0.12	0.12	0.12
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0.15	0.15	0.15	0.15
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0.07	0.07	0.07	0.07
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0.09	0.09	0.09	0.09
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0.12	0.12	0.12	0.12
0.12	0.12	0.12	0.12
0.09	0.09	0.09	0.09
0.10	0.10	0.10	0.10
0.12	0.12	0.12	0.12
0.07	0.07	0.07	0.07
0.11	0.11	0.11	0.11
0.16	0.16	0.16	0.16
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0.10	0.10	0.10	0.10
0.10	0.10	0.10	0.10
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0.07	0.07	0.07	0.07
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0.13	0.13	0.13	0.13
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0.13	0.13	0.13	0.13
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0.08	0.08	0.08	0.08
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0.07	0.07	0.07	0.07
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0.08	0.08	0.08	0.08
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0.13	0.13	0.13	0.13
0.09	0.09	0.09	0.09
-0.18	-0.18	-0.18	-0.18
-0.22	-0.22	-0.22	-0.22
0.11	0.11	0.11	0.11
0.10	0.10	0.10	0.10
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0.17	0.17	0.17	0.17
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-0.16	-0.16	-0.16	-0.16
0.14	0.14	0.14	0.14

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0.07	0.07	0.07	0.07
-0.13	-0.13	-0.13	-0.13
-0.09	-0.09	-0.09	-0.09
0.08	0.08	0.08	0.08

A	B	C
1424	-0.10	2.85E-05
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1429	0.10	2.02E-03
1431	0.00	9.10E-03
1433	0.00	9.04E-03
1434	-0.10	3.17E-05
1435	0.10	1.96E-03
1436	0.10	5.21E-04
1439	-0.10	3.23E-04
1451	-0.10	6.86E-04
1455	-0.10	6.92E-03
1463	-0.10	3.57E-04
1464	-0.10	8.83E-05
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1472	0.10	1.88E-04
1484	-0.10	8.84E-03
1491	-0.10	8.41E-04
1498	0.10	1.39E-11
1500	-0.10	3.79E-05
1506	0.10	4.60E-03
1511	-0.10	2.90E-03
1522	0.10	6.77E-03
1524	-0.10	1.31E-03
1527	0.10	1.70E-07
1530	0.10	1.02E-03
1534	-0.10	6.91E-03
1541	-0.10	1.41E-03
1547	0.10	5.86E-04
1552	-0.10	3.59E-03
1555	-0.20	2.13E-04
1571	0.10	3.62E-08
1575	0.10	1.81E-08
1581	-0.10	1.17E-03
1583	0.10	6.97E-03
1586	0.20	1.22E-03
1588	0.10	1.83E-03
1596	0.10	2.61E-05
1599	-0.10	5.16E-07
1615	0.10	7.03E-03

1616	-0.10	8.33E-06
1625	-0.10	4.52E-04
1636	0.10	2.61E-04
1642	-0.10	1.78E-06
1644	0.10	4.58E-05
1652	-0.10	1.04E-03
1653	-0.10	1.02E-14
1677	-0.10	6.04E-10
1681	-0.10	7.44E-04
1686	-0.10	4.38E-09
1699	-0.20	4.07E-08
1700	0.10	6.22E-03
1705	0.10	4.95E-03
1710	0.10	3.12E-04
1714	-0.10	3.53E-04
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1730	-0.10	5.75E-07
1737	-0.10	2.01E-04
1744	-0.10	4.49E-04
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1751	-0.10	3.37E-07
1779	-0.10	2.16E-06
1788	0.10	2.99E-04
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12307	-0.10	2.22E-05
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TABLE 6 - GENETIC MARKERS FOR FAT %

A	B	C	A	B	C	A	B	C	A	B	C
3	-0.10	9.46E-04	343	0.10	1.26E-03	665	-0.10	3.65E-03	1044	-0.10	8.53E-03
6	0.10	1.06E-04	347	0.10	3.63E-03	668	0.10	1.64E-09	1049	0.10	1.56E-04
15	-0.10	1.65E-03	353	-0.10	7.34E-03	678	-0.10	3.51E-03	1063	0.00	6.55E-03
16	-0.10	5.81E-05	354	0.10	8.29E-06	681	-0.10	2.12E-06	1072	-0.10	8.30E-04
22	0.10	3.08E-06	361	-0.10	8.47E-04	690	0.10	2.19E-07	1074	-0.10	9.55E-03
38	0.10	2.41E-03	366	0.10	1.39E-06	693	-0.20	7.56E-11	1084	-0.10	1.41E-03
39	0.20	1.04E-07	376	0.10	9.09E-07	697	-0.10	8.03E-03	1097	0.10	5.34E-04
43	-0.10	9.28E-03	377	0.10	6.24E-03	699	0.10	2.17E-03	1099	0.10	7.64E-06
50	0.10	2.60E-03	391	-0.10	9.38E-05	703	-0.10	6.77E-03	1100	0.10	9.40E-03
52	0.10	1.96E-03	394	0.10	1.27E-03	707	0.10	6.24E-05	1109	-0.10	6.84E-03
63	0.10	7.37E-04	395	0.10	8.84E-04	708	-0.10	4.40E-03	1110	0.10	6.57E-13
66	0.10	9.88E-05	396	0.10	3.15E-04	718	0.10	3.55E-03	1121	0.10	8.38E-07
71	0.10	5.10E-03	404	-0.10	3.52E-03	724	0.10	1.29E-04	1133	0.10	4.05E-03
77	0.10	3.28E-05	408	0.10	1.85E-05	735	-0.10	8.87E-03	1145	-0.10	2.46E-03
83	0.10	1.54E-03	410	0.10	5.21E-06	753	0.10	1.09E-03	1146	-0.10	2.13E-03
88	-0.10	8.31E-03	411	0.10	3.93E-06	760	0.10	5.61E-03	1147	-0.10	1.53E-06
97	0.10	1.10E-03	412	0.10	5.13E-08	761	-0.10	2.48E-04	1148	0.00	5.83E-03
99	-0.10	2.00E-04	415	0.10	5.84E-08	764	0.10	3.49E-03	1160	-0.10	1.61E-04
101	0.10	5.30E-06	429	-0.10	9.30E-06	765	0.10	2.71E-04	1164	-0.10	5.72E-04
106	-0.10	3.21E-03	435	0.10	8.00E-03	766	-0.10	4.54E-03	1171	-0.10	1.95E-03
120	0.10	7.99E-04	444	0.10	1.19E-05	769	0.10	2.79E-06	1172	0.10	7.19E-04
131	-0.10	8.87E-04	458	-0.10	6.20E-04	779	0.10	3.88E-09	1174	0.10	3.34E-03
133	-0.30	1.82E-31	467	0.10	1.45E-08	781	-0.10	2.92E-03	1193	-0.10	1.28E-03
143	-0.10	3.52E-03	476	-0.10	5.51E-08	785	-0.10	2.76E-03	1194	-0.10	3.30E-04
148	-0.10	9.94E-03	477	-0.10	1.05E-03	793	-0.10	4.43E-07	1195	-0.10	7.61E-06
152	-0.10	6.54E-03	479	0.10	1.20E-03	799	-0.10	9.53E-04	1204	-0.10	8.98E-05
156	-0.10	6.53E-06	481	-0.10	6.45E-05	801	0.10	3.13E-03	1205	-0.10	1.38E-04
158	0.10	2.73E-03	488	0.10	8.49E-03	808	0.10	1.27E-05	1229	0.10	6.09E-03
164	0.10	9.14E-03	495	-0.10	2.06E-04	827	-0.10	2.07E-03	1244	-0.10	2.64E-07
168	-0.10	7.86E-04	497	0.10	7.68E-04	829	-0.10	5.77E-05	1260	0.00	9.11E-03
176	0.10	4.49E-10	508	-0.10	9.12E-06	837	0.10	2.45E-04	1265	-0.10	8.36E-08
177	-0.10	9.19E-05	513	-0.10	2.09E-04	840	0.10	2.36E-06	1274	-0.10	3.80E-04
185	-0.10	4.15E-03	520	0.10	2.36E-04	841	0.10	2.98E-05	1278	0.10	5.10E-06
191	0.10	8.74E-05	525	0.10	1.56E-03	842	0.10	4.67E-04	1279	-0.10	7.09E-04
194	0.00	8.50E-03	532	-0.10	1.19E-07	844	-0.10	1.89E-03	1281	-0.10	1.36E-04
200	0.10	5.24E-03	534	0.10	1.23E-07	846	0.10	1.07E-03	1287	0.10	4.75E-09
203	0.10	9.19E-03	535	-0.10	2.56E-03	847	-0.10	7.31E-03	1291	-0.10	5.38E-03
217	-0.10	1.91E-03	537	0.00	4.57E-03	854	0.10	2.36E-03	1294	-0.10	1.05E-04
220	0.10	1.22E-03	538	0.00	7.96E-03	855	-0.10	1.18E-03	1299	0.10	1.13E-03

221	0.10	2.19E-08	539	0.10	3.99E-09	858	0.10	7.19E-03	1310	0.20	1.67E-05
222	0.10	7.11E-04	540	0.10	1.32E-07	864	-0.10	7.71E-04	1327	0.00	8.65E-03
226	0.10	2.48E-04	541	0.10	3.46E-03	867	0.10	5.16E-04	1334	0.10	8.16E-03
238	0.10	2.56E-03	543	-0.10	3.16E-05	876	0.10	6.41E-03	1339	0.10	7.13E-04
251	-0.10	3.75E-06	546	0.10	8.45E-03	883	-0.10	6.54E-04	1346	0.10	7.04E-07
264	-0.10	1.03E-03	549	0.10	8.53E-03	884	0.10	8.79E-04	1350	0.10	2.65E-04
282	-0.10	2.21E-04	561	0.10	5.05E-05	900	-0.10	9.04E-06	1356	-0.10	1.78E-03
287	-0.10	3.16E-06	570	0.10	6.26E-03	916	-0.10	2.20E-05	1359	-0.10	7.62E-03
288	-0.10	3.41E-06	572	0.00	7.95E-03	919	-0.10	3.50E-03	1364	-0.10	7.89E-04
290	0.10	6.38E-03	582	-0.10	1.12E-03	936	-0.10	7.62E-05	1366	-0.10	3.84E-03
291	-0.10	3.27E-05	583	0.10	1.46E-03	945	0.00	7.11E-03	1375	0.10	6.26E-05
299	-0.10	3.52E-03	586	0.10	4.33E-03	949	0.20	2.37E-16	1379	0.10	5.21E-03
300	-0.10	2.54E-05	591	0.10	5.94E-05	954	-0.10	6.72E-04	1380	0.20	6.11E-07
305	-0.10	2.11E-03	594	-0.10	5.75E-03	963	0.10	5.85E-06	1385	0.10	3.91E-06
315	-0.10	2.42E-04	595	0.10	4.63E-03	979	-0.20	1.87E-17	1390	0.10	1.01E-03
317	0.10	9.71E-04	607	0.10	3.84E-03	994	0.10	3.56E-04	1392	0.10	5.79E-03
318	0.10	7.27E-04	614	0.10	4.57E-05	1003	-0.10	1.40E-04	1393	0.10	2.17E-06
327	0.10	3.27E-05	623	-0.10	1.47E-03	1009	0.10	1.19E-05	1394	0.10	6.16E-03
331	0.10	1.04E-03	629	-0.10	8.73E-06	1012	-0.10	1.29E-03	1396	0.10	2.83E-09
333	-0.10	2.70E-03	636	-0.10	2.22E-05	1016	0.10	4.70E-05	1406	0.10	1.12E-06
335	0.10	3.19E-08	637	0.10	6.65E-03	1028	0.10	6.47E-03	1409	-0.10	9.30E-05
336	0.10	9.43E-08	640	0.10	4.24E-03	1031	0.10	8.64E-04	1411	-0.10	1.40E-03
190											
2293	-0.20	1.49E-17	654	-0.10	7.17E-03	1032	0.10	7.27E-03	1415	0.10	2.72E-04
2294	-0.10	2.35E-17	663	0.10	1.03E-03	1033	-0.10	5.65E-04	1419	-0.10	1.58E-03
2300	-0.10	1.10E-10	664	0.10	8.22E-05	1035	0.10	1.44E-03	1420	-0.10	2.97E-03
2303	-0.10	6.69E-04	2670	0.10	2.98E-03	5094	-0.10	5.07E-04	8977	-0.10	3.30E-04
2316	-0.10	2.91E-04	2688	0.10	1.35E-03	5098	-0.10	9.72E-15	8981	0.10	2.64E-08
2317	0.10	1.64E-03	2696	-0.10	7.86E-03	5102	0.10	2.95E-04	8985	0.10	4.24E-03
2320	0.10	2.88E-03	2705	0.10	1.26E-04	5134	0.10	1.04E-07	9005	-0.10	2.29E-04
2323	-0.10	1.18E-04	2707	0.10	2.84E-03	5135	0.00	8.41E-03	9009	-0.10	2.35E-05
2335	0.10	9.54E-05	2714	0.10	5.83E-03	5149	0.10	1.68E-04	9026	-0.10	9.23E-06
2338	-0.10	9.79E-04	2715	-0.10	9.03E-03	5162	0.10	1.05E-03	9027	0.10	7.53E-05
2364	0.10	8.60E-04	2722	0.10	3.56E-04	5176	0.20	2.15E-04	9030	-0.10	4.53E-03
2373	0.10	8.91E-03	2723	0.20	2.03E-03	5179	0.10	4.51E-03	9031	-0.10	5.64E-06
2389	0.10	3.75E-11	2735	-0.10	6.17E-03	5183	0.10	2.86E-03	9032	-0.10	3.38E-03
2394	0.10	6.21E-03	2752	0.10	3.30E-03	5197	0.10	6.03E-05	9037	0.10	7.96E-03
2401	0.10	2.71E-03	2754	-0.10	4.54E-04	5199	0.10	1.48E-03	9043	0.10	1.84E-03
2412	0.10	6.07E-04	2760	0.10	1.09E-09	5204	0.10	1.47E-03	9046	0.10	4.82E-06
2422	0.10	2.02E-03	2761	0.10	1.96E-09	5209	-0.10	3.22E-03	9049	0.20	1.26E-05
2424	0.10	3.01E-03	2772	0.10	3.19E-04	5211	-0.10	6.54E-03	9050	0.10	4.70E-04
2428	-0.10	1.64E-03	2782	-0.10	4.71E-12	5220	0.10	1.31E-04	9052	-0.10	6.48E-03

2429	-0.10	1.34E-03	2786	-0.10	2.69E-03	5230	-0.10	5.01E-05	9057	0.10	4.97E-05
2432	-0.10	1.80E-03	2788	-0.10	2.89E-03	5231	-0.10	2.24E-05	9059	0.10	4.67E-03
2436	0.00	4.28E-03	2793	0.10	6.88E-05	5235	0.10	5.34E-03	9063	0.10	1.95E-05
2443	0.10	1.89E-04	2798	-0.10	3.94E-03	5273	0.10	8.50E-09	9064	0.10	4.27E-07
2444	0.10	6.84E-05	2820	0.10	9.08E-03	5274	0.10	9.97E-09	9067	0.10	5.02E-03
2446	-0.20	5.24E-16	2821	0.10	2.90E-03	5276	0.20	7.74E-04	9084	0.10	7.04E-03
2455	0.10	2.84E-03	2822	0.10	5.79E-04	5278	-0.10	7.72E-03	9089	0.10	3.62E-03
2456	-0.10	4.21E-06	2828	-0.10	3.72E-04	5279	0.10	2.96E-04	9093	-0.10	1.33E-03
2459	0.10	9.96E-03	2829	0.10	1.91E-07	5283	-0.10	4.38E-04	9094	-0.10	3.83E-04
2465	0.10	3.16E-03	2830	0.10	5.43E-08	5285	0.10	4.91E-09	9096	0.10	6.58E-03
2466	0.10	6.81E-03	2848	0.10	4.04E-04	5290	0.10	3.70E-04	9106	0.10	1.93E-03
2470	0.10	6.19E-04	2850	0.10	6.41E-03	5293	0.10	6.55E-03	9115	-0.10	1.54E-03
2471	-0.10	1.81E-06	2872	-0.10	7.43E-07	5294	-0.10	2.62E-03	9122	-0.10	5.73E-04
2472	0.10	2.32E-03	2874	0.10	4.23E-04	5300	-0.10	6.77E-03	9123	-0.10	2.57E-03
2479	-0.10	3.82E-07	2878	0.10	5.04E-08	5302	0.10	1.96E-03	9126	0.10	1.12E-04
2480	-0.10	2.16E-06	2880	0.10	8.13E-03	5308	0.10	3.34E-04	9129	-0.10	1.58E-07
2483	-0.10	3.65E-05	2890	-0.10	1.47E-03	5316	-0.10	3.50E-04	9155	0.10	2.15E-03
2484	-0.10	2.33E-07	2902	0.10	1.01E-04	5321	-0.10	1.08E-03	9165	-0.10	6.64E-05
2485	-0.10	3.23E-08	2922	-0.10	2.41E-05	5323	0.10	2.66E-03	9166	0.00	8.75E-03
2486	-0.10	6.81E-06	2924	-0.10	5.88E-03	5329	0.10	3.47E-03	9173	-0.10	2.73E-08
2489	-0.10	6.76E-03	2941	0.10	4.23E-04	5334	0.10	8.36E-03	9180	0.10	1.54E-03
2491	-0.10	6.73E-08	2946	-0.10	1.34E-03	5336	0.10	2.38E-03	9183	0.10	1.25E-03
2499	-0.10	5.51E-04	2954	0.10	9.47E-05	5340	0.10	6.31E-03	9187	0.10	2.81E-05
2504	0.10	4.93E-03	2955	0.10	7.72E-06	5344	-0.10	2.13E-04	9190	-0.10	2.91E-04
2505	0.10	6.94E-03	2959	0.10	1.77E-06	5345	-0.10	2.17E-07	9200	0.10	1.16E-04
2518	-0.10	2.79E-04	2968	0.10	7.31E-04	5353	-0.10	1.88E-05	9201	-0.10	2.93E-03
2524	-0.10	1.11E-03	2970	0.10	5.17E-03	5360	-0.10	1.32E-04	9209	-0.10	2.02E-03
2525	-0.10	1.09E-03	2971	0.10	9.19E-04	5369	0.10	7.25E-03	9213	-0.10	8.14E-05
2535	-0.10	1.44E-03	2974	0.10	7.75E-03	5372	0.10	7.41E-04	9225	0.00	6.80E-03
2550	0.10	7.52E-04	2995	-0.10	8.12E-04	5384	-0.10	1.57E-03	9227	0.10	3.46E-03
2551	0.10	2.91E-03	2996	-0.10	1.43E-03	5388	-0.10	5.88E-04	9228	-0.10	2.10E-03
2571	0.10	6.84E-07	3004	0.00	8.39E-03	5391	0.10	5.11E-03	9236	-0.10	2.29E-03
2578	0.10	8.05E-03	3021	-0.10	3.17E-03	5397	-0.10	2.24E-03	9239	-0.10	1.82E-05
2587	0.10	3.95E-06	3035	0.10	2.30E-03	5399	0.10	2.82E-09	9241	0.10	6.62E-03
2590	-0.10	2.57E-03	3037	0.10	4.03E-04	5404	0.00	7.59E-03	9244	0.10	2.90E-05
2591	0.10	5.08E-03	3040	0.10	2.88E-04	5405	0.10	1.30E-03	9257	-0.10	2.39E-03
2608	-0.10	1.47E-03	3044	0.20	3.31E-09	5414	0.10	1.08E-03	9259	0.10	1.90E-03
2613	0.10	1.26E-03	3048	-0.10	5.05E-08	5419	-0.10	5.71E-04	9269	0.10	3.33E-08
2633	0.20	4.43E-06	3057	0.10	4.95E-05	5423	-0.10	4.46E-03	9281	0.10	2.82E-08
2636	-0.10	4.06E-03	3065	0.10	9.75E-03	5432	-0.10	1.66E-07	9289	0.10	1.94E-03
2639	-0.10	8.45E-05	3077	-0.10	8.73E-04	5455	0.10	4.98E-06	9290	0.10	4.26E-08
2645	0.10	1.18E-03	3079	0.10	3.88E-06	5465	-0.10	7.76E-04	9304	-0.10	4.05E-03

2649	0.10	6.68E-04	3084	0.10	8.59E-05	5470	0.10	9.94E-03	9305	-0.10	9.12E-04
2650	-0.10	1.49E-04	3109	-0.10	6.74E-03	5473	0.10	2.67E-08	9314	-0.10	3.32E-03
191											
2668	0.10	2.62E-03	3111	-0.10	1.08E-03	5480	-0.10	2.95E-04	9327	0.10	4.25E-05
7161	0.10	5.47E-04	3112	-0.10	2.21E-03	5495	-0.10	1.16E-04	9336	-0.10	6.73E-03
7165	0.10	1.43E-04	3114	-0.10	2.91E-03	5501	-0.20	1.60E-17	9342	0.10	6.22E-06
7166	0.10	4.78E-03	3116	-0.10	1.46E-04	5502	-0.10	2.49E-17	9347	0.00	6.83E-03
7190	-0.10	1.31E-07	3119	-0.10	7.00E-03	5505	0.10	1.23E-03	9348	0.00	6.74E-03
7195	0.10	1.43E-03	3120	0.10	3.61E-05	5509	-0.10	4.93E-03	9355	-0.10	2.01E-05
7199	0.10	8.30E-03	3124	0.10	7.41E-09	5513	0.10	1.76E-03	9361	0.10	4.59E-03
7204	-0.10	4.06E-06	3125	0.10	1.94E-06	5514	-0.10	1.67E-03	9362	-0.10	7.47E-03
7208	0.10	5.35E-03	3142	-0.10	3.38E-03	5522	0.10	8.10E-06	9367	0.10	6.12E-04
7209	-0.10	7.11E-04	3143	0.10	1.64E-07	5527	-0.10	3.30E-07	9368	-0.10	5.71E-08
7223	0.10	3.86E-06	3151	0.10	1.32E-03	5560	0.10	3.28E-03	9369	-0.10	1.52E-03
7225	0.10	3.39E-04	3152	-0.10	7.03E-03	5565	-0.10	1.81E-04	9371	0.10	1.19E-06
7229	-0.10	5.81E-04	3153	0.10	3.69E-03	5570	-0.10	5.82E-09	9373	-0.10	6.58E-03
7230	-0.10	2.89E-03	3165	0.10	4.63E-08	5576	-0.10	9.57E-03	9376	-0.10	5.54E-10
7231	-0.10	9.29E-04	3167	0.10	1.79E-08	5577	-0.10	2.52E-03	9383	0.10	2.08E-09
7233	-0.10	1.10E-03	3168	-0.10	3.22E-04	5579	0.10	1.36E-04	9388	0.10	3.59E-04
7238	0.10	4.93E-05	3184	-0.10	3.06E-07	5581	0.10	6.79E-03	9391	0.20	3.96E-06
7239	0.10	8.35E-04	3189	0.10	4.54E-07	5583	0.10	6.66E-03	9394	0.10	3.29E-03
7248	0.10	4.83E-06	3190	-0.10	1.14E-03	5585	-0.10	2.24E-04	9397	0.10	1.18E-04
7251	-0.10	2.69E-04	3200	-0.10	2.07E-03	5590	-0.10	2.16E-06	9402	0.10	2.46E-07
7279	0.10	4.75E-10	3201	0.10	3.56E-05	5594	0.10	7.37E-04	9410	-0.10	3.62E-03
7289	-0.10	5.75E-04	3206	-0.10	5.31E-03	5595	0.20	1.98E-03	9411	-0.10	6.72E-04
7294	-0.10	2.67E-03	3218	0.10	5.26E-08	5596	0.10	4.87E-03	9415	0.10	1.91E-03
7321	-0.10	6.98E-03	3241	0.10	1.92E-05	5597	0.10	6.24E-03	9421	0.10	9.99E-03
7345	-0.10	4.34E-08	3254	0.10	5.27E-03	5599	0.10	9.39E-03	9424	0.10	8.00E-03
7355	0.10	3.54E-03	3258	-0.10	1.98E-03	5602	0.10	7.78E-07	9434	0.10	1.42E-04
7358	-0.10	5.05E-05	3260	0.10	1.36E-03	5605	0.10	4.43E-03	9445	0.10	1.29E-08
7360	0.10	3.39E-03	3266	0.00	6.34E-03	5606	0.10	7.63E-03	9460	0.10	2.40E-03
7370	0.10	7.51E-03	3282	0.10	4.86E-04	5608	0.10	1.32E-06	9461	-0.10	7.22E-04
7373	0.10	2.02E-03	3291	0.10	5.48E-04	5623	-0.10	2.19E-05	9463	-0.10	1.78E-04
7376	-0.10	3.06E-07	3302	-0.10	2.63E-04	5624	0.10	1.33E-03	9468	0.10	8.17E-03
7388	0.10	3.52E-07	3303	-0.10	2.74E-04	5627	-0.10	5.67E-03	9476	0.10	6.48E-06
7390	-0.10	1.75E-04	3306	0.10	5.50E-03	5632	-0.10	1.63E-03	9478	-0.10	4.82E-04
7396	-0.10	6.19E-03	3312	0.10	7.98E-05	5639	0.10	3.30E-06	9486	0.10	2.15E-03
7398	-0.10	1.35E-03	3313	0.10	6.06E-05	5666	0.10	3.44E-03	9507	-0.10	2.64E-03
7403	0.10	1.09E-03	3322	0.10	5.17E-03	5670	0.10	1.84E-03	9517	0.10	3.04E-03
7404	0.10	8.58E-04	3338	-0.10	2.09E-04	5674	0.10	2.71E-10	9519	-0.10	8.20E-03
7426	-0.10	4.41E-04	3353	-0.10	1.76E-06	5677	0.00	9.13E-03	9527	-0.10	1.09E-03
7430	0.10	2.93E-11	3366	0.20	1.23E-03	5682	-0.10	7.66E-04	9530	0.10	3.43E-04

7434	-0.10	1.09E-08	3371	-0.10	4.72E-07	5704	-0.10	5.97E-09	9533	0.10	1.04E-03
7437	-0.10	6.05E-04	3372	0.00	8.17E-03	5708	0.10	2.06E-04	9534	0.10	1.05E-03
7441	0.10	3.27E-03	3379	0.10	4.95E-04	5710	-0.10	9.06E-07	9538	0.10	2.56E-07
7448	0.10	4.38E-05	3394	-0.10	6.05E-07	5711	0.10	2.11E-04	9567	-0.10	3.85E-04
7449	0.10	8.80E-04	3396	0.10	1.70E-06	5719	-0.10	4.61E-04	9569	-0.10	1.14E-03
7453	0.00	9.63E-03	3405	0.10	7.01E-03	5746	-0.10	3.24E-03	9582	-0.10	1.04E-04
7460	-0.10	3.81E-09	3420	-0.10	3.54E-07	5752	-0.10	3.88E-04	9589	-0.10	1.74E-05
7472	-0.10	1.85E-03	3428	0.10	3.86E-04	5753	0.10	6.37E-03	9590	0.00	9.12E-03
7493	0.00	9.05E-03	3437	0.10	3.53E-06	5754	0.10	1.47E-08	9598	0.10	9.83E-06
7503	0.10	1.89E-04	3438	0.00	9.29E-03	5757	-0.10	2.76E-03	9608	0.10	1.14E-03
7506	0.10	1.75E-04	3455	0.10	5.45E-04	5759	0.00	4.88E-04	9609	-0.10	2.09E-04
7507	0.10	2.54E-03	3467	-0.10	5.92E-05	5768	0.10	8.31E-03	9612	-0.10	3.77E-03
7509	-0.10	1.71E-03	3480	0.10	5.30E-04	5785	0.10	4.86E-03	9617	0.10	4.91E-04
7515	0.20	2.51E-10	3483	-0.10	2.14E-03	5788	0.10	8.60E-03	9625	-0.10	8.00E-03
7516	0.10	1.19E-10	3485	0.20	3.52E-20	5792	-0.10	3.80E-03	9627	0.20	2.76E-05
7517	0.10	6.60E-04	3489	-0.10	4.34E-06	5798	0.10	9.55E-04	9630	-0.10	6.66E-03
7524	0.10	2.92E-04	3491	-0.10	1.34E-05	5806	0.10	1.61E-06	9636	0.20	1.93E-08
7525	0.10	4.68E-04	3493	0.10	4.07E-04	5819	0.10	1.08E-03	9638	0.10	1.01E-04
7533	-0.10	5.66E-04	3503	0.10	6.59E-04	5821	0.10	1.00E-07	9645	-0.10	2.40E-08
7545	-0.10	2.94E-04	3511	-0.10	2.97E-03	5823	0.10	1.85E-03	9649	0.10	8.18E-03
7548	0.10	1.60E-08	3514	0.10	1.06E-03	5824	0.10	3.07E-03	9660	0.10	2.09E-03
7552	-0.10	1.08E-03	3527	-0.10	6.72E-03	5825	0.10	2.66E-04	9662	0.10	6.03E-03
7559	-0.10	3.04E-03	3539	-0.10	1.53E-03	5832	0.10	7.04E-03	9682	0.10	1.53E-04
7564	0.10	6.43E-09	3540	0.10	4.53E-03	5838	0.10	4.60E-07	9684	-0.10	2.89E-07
192											
7570	0.10	1.25E-03	3541	-0.10	6.31E-06	5841	-0.10	6.80E-03	9692	0.10	9.02E-03
7584	-0.10	7.24E-04	3546	0.10	3.24E-04	5856	-0.10	5.09E-08	9701	0.10	3.49E-03
7597	0.10	4.50E-04	3548	0.20	4.86E-05	5870	-0.10	9.44E-04	9703	-0.10	7.31E-04
7601	0.10	8.43E-03	3550	-0.10	3.51E-05	5871	-0.10	4.84E-03	9704	-0.10	9.96E-03
7605	0.10	1.57E-03	3554	-0.10	1.38E-05	5872	-0.10	2.02E-04	9707	0.10	4.94E-03
7609	-0.10	7.13E-04	3558	0.10	2.20E-03	5877	-0.10	4.95E-03	9711	0.10	2.65E-04
7611	0.00	9.28E-03	3561	0.10	6.32E-04	5880	-0.10	1.86E-05	9713	-0.20	7.03E-09
7619	-0.10	2.98E-06	3570	0.10	3.27E-03	5887	0.10	1.05E-03	9716	-0.10	1.78E-08
7635	0.10	1.85E-04	3575	0.20	9.83E-05	5890	0.10	7.72E-08	9723	-0.10	6.58E-05
7640	0.10	5.51E-03	3585	0.10	2.01E-06	5892	-0.10	6.37E-03	9733	-0.10	1.91E-03
7648	0.10	1.03E-03	3586	-0.10	7.65E-03	5895	-0.10	8.37E-03	9738	0.10	2.66E-05
7649	0.10	1.73E-03	3587	-0.10	1.15E-04	5897	0.10	4.26E-03	9744	0.10	4.53E-03
7652	0.10	1.47E-05	3593	0.10	8.48E-07	5898	0.10	4.04E-05	9746	-0.10	4.54E-04
7656	-0.10	3.56E-03	3597	0.10	1.30E-03	5901	0.10	1.81E-04	9758	0.20	2.92E-04
7657	-0.10	1.36E-03	3601	0.10	8.32E-05	5904	-0.10	5.52E-10	9774	0.10	6.11E-06
7659	0.10	4.13E-04	3615	-0.10	1.09E-06	5906	-0.10	5.04E-07	9777	-0.10	1.50E-03
7660	-0.10	9.58E-03	3618	-0.10	8.86E-09	5913	0.20	6.80E-05	9801	0.10	4.98E-04

7676	0.10	1.07E-04	3625	-0.10	5.31E-06	5914	-0.10	1.04E-09	9806	-0.10	3.11E-04
7689	-0.10	1.19E-05	3626	0.10	2.77E-03	5915	0.10	2.53E-04	9823	-0.10	4.03E-05
7690	0.10	2.62E-04	3653	-0.10	3.28E-07	5924	0.10	2.59E-03	9837	0.10	1.12E-04
7691	0.10	2.40E-04	3661	0.10	5.24E-07	5929	0.10	9.54E-04	9838	0.10	1.30E-05
7693	0.10	9.67E-03	3666	0.10	1.02E-04	5930	0.10	5.59E-08	9847	-0.10	9.85E-06
7708	0.10	1.30E-03	3668	-0.10	7.05E-07	5939	0.10	1.11E-03	9851	0.10	7.79E-03
7721	0.10	1.04E-06	3673	-0.10	1.57E-03	5942	-0.10	7.96E-05	9855	0.10	8.00E-03
7722	0.20	7.16E-07	3683	0.10	6.03E-03	5956	0.10	5.28E-03	9858	0.10	1.15E-03
7737	0.00	9.45E-03	3705	-0.10	1.40E-05	5966	-0.10	4.41E-09	9859	0.10	4.86E-05
7742	0.10	1.68E-07	3706	0.10	1.37E-05	5968	0.10	3.30E-08	9866	0.10	4.63E-03
7745	0.00	5.64E-03	3714	0.00	5.12E-04	5970	-0.10	3.43E-07	9873	-0.10	5.92E-04
7748	0.20	3.33E-05	3715	-0.10	7.03E-05	5971	-0.10	1.51E-05	9874	0.10	7.64E-03
7750	-0.10	6.45E-03	3716	-0.10	4.45E-05	5979	-0.10	1.59E-06	9876	-0.10	1.50E-07
7751	-0.10	1.24E-03	3722	-0.10	3.32E-06	5982	-0.10	1.36E-04	9879	-0.10	2.35E-06
7753	-0.10	3.83E-03	3726	-0.10	4.16E-03	5992	0.10	6.51E-09	9882	-0.10	6.66E-03
7754	-0.10	1.37E-05	3729	0.10	3.44E-09	5994	-0.10	2.61E-03	9908	-0.10	4.01E-03
7755	-0.10	1.28E-05	3737	0.20	4.46E-05	5995	-0.10	2.94E-03	9922	0.10	5.13E-03
7759	0.10	3.26E-03	3742	0.10	1.06E-04	5996	-0.10	3.78E-03	9924	-0.10	1.79E-03
7770	-0.10	1.35E-03	3751	0.10	2.63E-03	5997	-0.10	3.99E-03	9925	-0.10	3.15E-04
7777	0.10	2.05E-03	3753	0.10	2.92E-09	5998	0.10	2.69E-05	9946	-0.10	7.35E-05
7785	0.10	1.21E-03	3759	0.10	2.36E-06	6015	0.10	5.84E-04	9950	0.10	2.52E-04
7789	-0.10	3.85E-04	3760	-0.10	4.65E-06	6016	0.00	6.01E-03	9961	-0.20	4.05E-16
7790	0.10	1.62E-06	3771	-0.10	2.22E-04	6029	0.10	2.34E-04	9964	-0.10	8.73E-04
7808	0.10	1.27E-03	3776	0.10	1.94E-09	6031	-0.10	1.82E-04	9981	-0.10	6.35E-03
7810	0.10	1.47E-05	3779	-0.10	1.85E-05	6036	0.10	3.03E-09	9982	0.10	2.24E-04
7815	0.10	2.26E-03	3788	0.10	7.69E-03	6045	0.10	1.11E-03	9994	-0.10	3.34E-03
7823	-0.10	2.31E-04	3789	0.10	4.60E-04	6057	0.10	6.92E-04	9995	-0.10	2.44E-06
7824	0.10	5.50E-03	3793	0.10	4.10E-08	6074	0.00	6.80E-03	10000	0.10	2.68E-04
7827	0.10	1.65E-05	3796	0.10	1.63E-06	6086	0.10	2.06E-05	10011	0.10	1.10E-05
7828	0.10	1.29E-07	3797	0.10	1.53E-06	6087	0.10	8.03E-03	10015	0.10	1.56E-04
7843	-0.10	5.83E-04	3803	0.10	9.87E-04	6088	0.10	8.28E-03	10018	-0.10	5.70E-03
7854	0.10	6.08E-03	3808	0.10	5.17E-03	6096	-0.10	5.00E-04	10023	0.10	6.56E-06
7857	0.10	7.21E-04	3819	0.10	9.12E-04	6098	-0.10	4.22E-03	10026	0.10	3.78E-05
7858	0.10	5.19E-05	3830	-0.10	1.24E-04	6102	0.00	8.42E-03	10035	-0.10	2.67E-04
7860	0.10	7.00E-08	3839	-0.10	5.16E-03	6103	0.10	8.18E-04	10039	0.10	1.67E-04
7861	0.10	4.41E-03	3847	0.10	1.40E-06	6104	0.10	2.80E-03	10044	0.00	7.59E-03
7862	-0.10	3.06E-03	3852	-0.10	5.54E-04	6109	0.10	2.92E-03	10053	0.10	4.00E-04
7871	-0.10	1.02E-05	3859	0.10	6.30E-04	6111	0.10	1.04E-06	10056	-0.10	1.42E-04
7879	0.10	2.28E-03	3864	0.10	3.51E-05	6117	0.10	1.14E-05	10059	0.10	7.20E-07
7889	0.10	4.44E-03	3879	0.10	1.78E-06	6124	-0.10	6.89E-03	10067	-0.10	1.49E-04
7895	-0.10	8.32E-04	3884	0.10	3.03E-07	6142	0.10	2.17E-03	10071	0.00	8.23E-03
7899	0.10	4.88E-04	3886	-0.10	5.73E-10	6143	0.10	2.31E-03	10074	0.10	1.15E-03

7900	0.10	4.95E-04	3902	0.10	2.61E-06	6145	0.10	1.01E-06	10080	0.10	3.27E-04
7915	-0.10	1.46E-04	3904	0.10	4.72E-07	6147	0.10	6.50E-03	10084	-0.10	4.92E-05
7916	-0.10	4.05E-11	3909	0.10	5.10E-05	6154	0.10	5.46E-09	10092	0.10	4.84E-03
7927	-0.10	2.10E-04	3914	0.10	1.35E-10	6158	0.10	4.27E-04	10096	0.00	8.42E-03
193											
7934	-0.10	7.99E-03	3919	-0.20	8.82E-04	6169	0.10	4.12E-03	10105	0.10	1.51E-03
7950	0.10	5.36E-03	3922	0.10	8.05E-11	6170	-0.10	2.54E-03	10115	0.10	3.00E-08
7965	-0.10	1.35E-09	3924	-0.10	1.06E-11	6176	0.10	1.22E-03	10117	0.10	4.15E-04
7966	0.10	6.10E-04	3929	-0.10	3.52E-03	6193	-0.10	1.96E-03	10132	-0.10	1.18E-04
7974	-0.10	2.48E-03	3937	0.10	3.30E-04	6197	-0.10	6.46E-03	10139	0.10	1.64E-08
7976	-0.10	7.26E-03	3938	-0.10	2.23E-04	6198	-0.10	6.79E-03	10148	0.10	1.49E-05
7981	-0.10	4.34E-05	3940	-0.10	8.48E-06	6201	0.00	9.96E-03	10150	0.10	3.53E-05
7982	-0.10	8.35E-03	3947	0.10	3.09E-03	6204	0.10	1.03E-03	10151	0.10	9.41E-06
7997	-0.10	4.11E-03	3951	-0.10	1.06E-03	6206	-0.10	4.76E-03	10160	-0.10	6.81E-11
8006	0.10	1.44E-04	3959	-0.10	5.00E-03	6219	-0.10	7.15E-07	10161	0.10	6.43E-06
8007	0.10	1.47E-03	3965	0.10	7.46E-03	6225	-0.10	6.32E-03	10162	0.10	6.33E-07
8008	0.10	1.52E-03	3980	-0.10	9.03E-03	6233	0.10	5.99E-03	10176	-0.10	3.71E-03
8009	0.10	5.51E-05	4006	0.10	4.33E-03	6241	0.00	4.03E-03	10177	-0.10	1.02E-10
8012	0.10	4.33E-03	4007	0.10	3.77E-03	6243	-0.10	6.76E-03	10187	0.10	2.34E-04
8013	0.10	3.71E-03	4011	-0.10	7.89E-10	6245	-0.10	1.49E-06	10200	-0.10	1.47E-08
8018	-0.10	6.96E-03	4014	0.10	1.43E-04	6246	0.10	2.76E-03	10204	-0.10	3.66E-03
8024	0.10	9.54E-08	4025	-0.10	4.67E-08	6249	-0.10	3.29E-05	10208	-0.10	7.49E-04
8032	0.10	5.35E-06	4030	0.10	8.80E-04	6250	0.10	2.61E-04	10212	0.10	1.62E-03
8034	-0.10	4.13E-03	4032	-0.10	5.50E-03	6253	0.10	2.05E-04	10225	-0.10	2.33E-03
8035	-0.10	4.81E-03	4044	0.10	1.19E-04	6258	0.10	6.85E-03	10228	0.10	5.39E-03
8037	0.10	9.82E-04	4050	-0.10	2.85E-04	6261	-0.10	3.68E-05	10237	0.10	6.13E-03
8044	-0.10	4.94E-09	4051	0.10	4.66E-06	6263	0.10	7.19E-03	10241	-0.10	4.86E-04
8048	0.10	9.22E-06	4052	0.10	9.41E-06	6266	0.10	3.84E-03	10245	-0.10	2.80E-04
8054	0.00	7.81E-03	4056	-0.10	2.95E-03	6267	0.10	2.70E-06	10250	0.10	2.56E-04
8055	-0.10	3.50E-04	4070	0.10	6.28E-04	6285	-0.10	5.67E-07	10257	-0.10	6.05E-03
8065	0.10	2.43E-04	4076	0.10	3.02E-05	6297	-0.10	3.81E-03	10262	-0.10	7.35E-04
8078	-0.10	5.63E-07	4081	-0.10	7.49E-03	6303	-0.10	3.35E-17	10272	-0.10	1.87E-08
8081	-0.10	1.29E-03	4083	-0.10	6.76E-05	6304	-0.10	2.55E-17	10274	0.10	1.31E-04
8085	0.10	1.54E-05	4084	-0.10	5.32E-03	6305	-0.10	7.90E-03	10276	0.10	5.11E-03
8086	-0.10	1.96E-03	4088	0.10	3.16E-06	6310	-0.10	8.93E-07	10277	0.10	5.44E-03
8087	0.10	1.44E-04	4121	0.10	6.33E-09	6328	0.10	4.33E-03	10283	0.10	2.03E-06
8094	-0.10	2.05E-05	4130	0.10	6.11E-05	6329	0.10	4.95E-03	10287	0.10	1.62E-04
8095	0.10	3.66E-04	4134	0.10	4.12E-05	6330	0.10	2.42E-03	10289	-0.10	2.16E-04
8100	-0.10	7.54E-08	4137	-0.10	1.37E-03	6333	-0.10	1.12E-03	10290	-0.10	1.30E-03
8102	0.10	1.17E-04	4150	-0.10	8.38E-03	6337	0.10	3.40E-08	10291	0.10	1.63E-03
8110	0.10	1.05E-04	4153	-0.10	3.77E-03	6340	0.10	4.04E-04	10292	0.10	1.17E-03
8111	0.10	5.27E-03	4165	0.10	2.56E-04	6342	-0.10	9.50E-03	10311	0.20	1.96E-04

8119	0.10	9.37E-04	4166	0.10	8.56E-07	6343	-0.10	1.11E-03	10315	0.10	1.18E-03
8123	0.00	1.18E-03	4182	-0.10	6.30E-03	6346	0.10	1.84E-03	10317	0.10	5.87E-07
8127	-0.10	3.70E-03	4184	0.10	1.24E-03	6349	0.10	3.84E-03	10333	-0.10	8.70E-04
8149	-0.10	8.69E-04	4187	-0.10	5.37E-03	6351	0.10	3.73E-04	10341	0.10	4.49E-03
8150	-0.10	1.95E-04	4191	-0.10	2.79E-04	6365	0.10	6.63E-05	10346	0.10	3.88E-03
8151	-0.10	9.91E-03	4202	-0.10	7.97E-10	6373	0.00	7.58E-03	10350	0.00	4.06E-03
8153	0.10	3.75E-03	4211	-0.10	1.07E-03	6381	0.10	1.19E-12	10353	-0.10	5.25E-04
8159	0.10	5.99E-06	4212	0.10	1.24E-05	6388	0.10	1.55E-05	10355	-0.10	6.65E-03
8161	-0.10	4.03E-03	4214	0.10	1.37E-03	6398	0.10	3.48E-08	10358	0.10	1.42E-04
8163	0.10	9.62E-04	4215	-0.10	8.15E-03	6408	-0.10	1.28E-03	10370	-0.10	2.79E-03
8166	-0.10	2.13E-03	4217	-0.10	2.16E-04	6411	0.10	1.72E-04	10373	0.10	7.06E-04
8168	0.10	3.45E-04	4219	-0.10	5.42E-03	6415	0.10	5.25E-07	10374	0.10	7.95E-04
8173	-0.10	1.66E-04	4230	-0.10	3.73E-04	6416	-0.10	7.82E-07	10386	0.10	2.45E-03
8193	-0.10	1.06E-03	4231	-0.10	4.70E-03	6418	0.10	1.81E-04	10387	0.10	2.19E-03
8203	0.10	1.00E-04	4234	0.10	3.50E-05	6420	0.00	8.59E-03	10404	0.10	3.61E-04
8206	0.10	4.52E-03	4236	-0.10	3.73E-04	6429	-0.10	6.71E-03	10408	0.10	3.05E-08
8208	0.00	5.19E-03	4246	0.10	1.92E-07	6434	-0.10	1.33E-07	10423	-0.10	6.68E-05
8210	0.10	7.55E-03	4248	0.10	1.44E-03	6436	-0.10	2.73E-07	10426	0.10	5.08E-03
8212	0.10	3.19E-04	4254	0.10	2.17E-05	6437	-0.10	6.70E-03	10427	0.10	7.18E-03
8233	0.10	3.31E-05	4259	-0.10	6.71E-06	6438	-0.10	1.07E-03	10438	-0.10	5.87E-17
8240	0.10	2.10E-05	4261	0.10	5.77E-04	6439	0.10	5.84E-03	10441	-0.10	9.43E-04
8259	0.00	1.86E-03	4266	0.10	7.76E-03	6452	0.10	1.14E-06	10444	0.10	1.33E-10
8261	-0.10	1.04E-03	4268	0.10	2.17E-03	6455	-0.10	7.28E-05	10448	0.10	1.15E-03
8264	0.10	4.24E-04	4271	0.10	1.58E-03	6459	-0.10	3.33E-03	10453	0.10	2.33E-03
8267	0.10	3.02E-04	4277	0.10	2.34E-04	6460	0.10	7.04E-03	10462	-0.10	9.04E-05
8270	0.10	6.89E-05	4278	0.10	1.22E-09	6461	0.10	4.78E-05	10480	0.10	4.19E-04
194											
8274	-0.10	6.85E-04	4297	-0.10	1.67E-05	6464	0.10	1.82E-06	10481	-0.10	2.00E-03
8276	0.10	2.47E-04	4299	0.10	8.56E-05	6469	-0.10	6.96E-03	10487	0.10	8.37E-04
8286	-0.10	6.97E-03	4301	0.10	2.27E-03	6473	0.10	1.29E-04	10488	-0.10	6.19E-05
8287	0.10	3.34E-11	4306	0.10	1.79E-04	6475	0.10	6.44E-03	10498	0.10	1.05E-04
8289	0.10	2.33E-03	4313	-0.10	6.93E-04	6483	0.10	3.32E-03	10505	0.00	7.26E-03
8300	0.10	7.83E-06	4314	-0.10	1.25E-04	6485	0.10	5.64E-06	10506	0.10	1.81E-03
8301	-0.10	4.82E-03	4321	0.10	9.03E-05	6505	0.10	8.76E-05	10510	0.00	1.70E-03
8317	-0.10	2.37E-03	4331	0.10	1.27E-03	6509	0.10	5.24E-04	10515	0.10	6.58E-03
8321	0.10	1.33E-04	4334	-0.10	7.35E-09	6523	0.10	6.89E-07	10516	-0.10	3.03E-05
8323	0.10	5.72E-06	4336	-0.10	8.33E-03	6530	0.10	3.59E-09	10520	0.10	3.76E-04
8346	0.20	6.45E-05	4337	0.10	5.96E-03	6535	0.10	3.60E-05	10537	0.10	2.40E-04
8353	0.10	2.53E-08	4342	0.10	1.36E-03	6539	0.10	4.90E-04	10538	-0.10	5.21E-03
8361	-0.10	1.71E-04	4352	-0.10	5.09E-04	6542	-0.10	8.71E-03	10547	-0.10	2.35E-04
8365	0.10	5.43E-04	4354	-0.10	2.01E-04	6544	-0.10	1.96E-04	10554	0.10	1.43E-03
8366	0.10	4.87E-04	4357	0.10	4.46E-04	6551	0.10	4.92E-04	10561	0.10	1.28E-03

8383	-0.10	9.86E-03	4362	0.10	1.89E-03	6557	0.00	8.14E-03	10572	0.10	9.80E-03
8386	0.10	1.61E-03	4370	0.10	7.76E-04	6571	0.10	3.15E-04	10578	0.10	6.13E-03
8391	0.10	2.16E-06	4374	0.10	6.93E-07	6572	0.10	1.98E-03	10582	0.00	3.72E-03
8395	0.00	8.79E-03	4385	-0.10	3.41E-09	6580	0.10	4.78E-04	10584	0.10	5.25E-05
8397	-0.10	3.58E-04	4387	0.10	1.80E-03	6582	-0.10	4.03E-03	10593	-0.10	3.26E-04
8417	-0.10	8.21E-04	4400	0.10	4.41E-04	6591	-0.10	1.62E-06	10599	0.10	3.28E-03
8420	-0.10	2.21E-07	4401	0.10	5.00E-08	6599	-0.10	1.98E-03	10601	0.10	3.21E-04
8421	0.10	6.18E-11	4404	-0.10	3.37E-03	6615	-0.10	3.24E-05	10604	0.10	1.01E-10
8427	-0.10	1.86E-04	4411	0.10	3.96E-03	6619	0.10	5.33E-04	10608	0.10	1.09E-05
8436	0.10	7.96E-07	4412	0.10	3.90E-03	6626	0.10	3.92E-04	10613	-0.10	1.84E-04
8441	0.10	3.22E-04	4414	-0.10	8.74E-04	6629	-0.10	1.29E-04	10618	-0.10	4.93E-05
8446	0.10	5.19E-03	4426	0.10	9.81E-03	6633	0.10	1.48E-03	10624	0.10	9.33E-03
8451	0.10	2.27E-03	4446	0.10	3.39E-05	6634	-0.10	5.68E-04	10627	0.10	7.33E-03
8454	0.10	3.66E-03	4454	-0.10	4.86E-05	6635	0.10	7.91E-03	10649	-0.10	5.80E-08
8457	-0.10	3.80E-04	4468	0.10	1.91E-03	6637	0.10	6.92E-03	10668	0.10	5.34E-03
8460	0.10	5.38E-04	4470	-0.10	6.36E-03	6639	-0.10	2.19E-11	10696	0.10	7.30E-03
8465	0.00	5.96E-03	4478	0.10	8.83E-03	6640	0.10	4.35E-04	10711	0.10	1.10E-03
8467	-0.10	5.03E-04	4485	0.10	4.58E-07	6641	-0.10	3.72E-03	10722	-0.10	3.57E-03
8470	0.10	7.13E-04	4486	-0.10	3.48E-03	6643	-0.10	1.43E-03	10724	0.10	1.40E-03
8485	-0.10	1.41E-03	4487	-0.10	2.28E-04	6644	-0.10	4.68E-05	10738	0.10	1.19E-03
8488	-0.10	4.67E-04	4502	-0.10	4.24E-04	6660	0.10	4.25E-03	10744	0.10	1.70E-04
8489	0.10	1.55E-03	4505	-0.10	1.30E-08	6668	-0.10	3.23E-05	10748	-0.10	7.68E-03
8501	-0.10	8.65E-03	4528	0.10	3.14E-06	6672	0.00	4.05E-03	10755	-0.10	2.69E-03
8502	-0.10	6.82E-03	4542	-0.10	4.45E-04	6675	0.10	2.24E-03	10760	0.10	7.90E-03
8503	0.10	1.70E-03	4544	0.10	1.89E-05	6676	0.10	7.14E-08	10767	0.10	6.08E-03
8532	0.10	8.67E-03	4549	-0.10	9.85E-04	6678	-0.10	5.09E-04	10775	0.10	3.12E-07
8539	0.00	9.42E-03	4567	0.10	1.90E-04	6681	-0.10	6.64E-03	10778	-0.10	5.39E-06
8540	-0.10	5.81E-03	4578	-0.10	1.84E-04	6683	0.10	2.34E-04	10792	0.10	1.48E-06
8541	-0.10	2.32E-03	4580	0.10	2.25E-03	6686	-0.10	4.86E-03	10802	-0.10	2.60E-06
8545	0.10	7.77E-03	4581	-0.10	1.43E-05	6690	0.10	5.68E-04	10818	0.10	5.02E-04
8550	0.10	7.40E-03	4583	-0.10	2.90E-04	6706	0.10	8.40E-08	10819	-0.10	7.70E-03
8555	-0.10	8.29E-03	4602	-0.10	9.84E-07	6711	0.10	2.55E-03	10837	*-0.10*	*3.62E-06*
8557	0.20	2.25E-05	4606	0.10	3.79E-04	6714	0.10	4.02E-06	10838	-0.10	1.32E-11
8559	-0.10	1.32E-09	4607	0.10	4.62E-04	6715	0.10	2.72E-03	10840	0.10	9.26E-05
8563	-0.10	4.40E-03	4608	0.10	6.18E-03	6722	0.10	8.10E-04	10842	0.10	2.13E-03
8569	0.10	4.42E-04	4615	0.10	4.62E-03	6725	0.10	7.04E-04	10858	0.10	5.47E-03
8576	0.20	3.92E-16	4619	0.10	2.03E-03	6726	0.10	7.50E-05	10872	0.10	3.04E-05
8577	-0.10	4.11E-04	4622	0.10	4.64E-08	6736	-0.10	3.47E-04	10875	0.10	3.60E-04
8589	0.10	4.70E-03	4627	0.10	3.22E-03	6737	0.00	9.77E-03	10900	0.10	1.25E-04
8593	0.10	1.79E-05	4629	-0.10	6.65E-03	6749	0.10	2.58E-03	10911	0.10	2.82E-04
8596	0.10	1.60E-08	4634	0.10	1.52E-06	6755	-0.10	4.78E-03	10913	0.10	4.96E-07
8600	-0.10	5.14E-03	4643	0.00	8.50E-03	6757	0.10	1.67E-06	10917	0.10	6.92E-03

8601	0.10	1.53E-08	4647	-0.10	6.02E-03	6762	0.00	9.77E-03	10926	0.10	2.90E-03
8608	0.20	1.50E-05	4651	-0.10	4.14E-08	6765	-0.10	1.90E-05	10940	0.10	2.32E-03
8610	0.10	2.53E-05	4661	0.10	5.26E-03	6766	0.00	5.16E-03	10948	0.10	7.49E-03
8611	0.10	8.49E-10	4664	-0.10	2.86E-16	6770	0.10	2.51E-05	10950	-0.10	6.09E-05
8616	0.10	6.20E-03	4669	0.10	1.89E-03	6773	0.10	3.72E-03	10961	-0.10	6.62E-03
8621	-0.10	5.10E-03	4670	0.10	3.12E-03	6774	0.10	4.40E-05	10962	0.10	6.92E-03
195											
8632	-0.10	4.79E-08	4677	0.10	6.86E-06	6799	-0.10	8.08E-05	10977	0.10	1.00E-06
8634	0.10	6.08E-03	4678	-0.10	3.06E-05	6806	0.10	3.27E-03	10980	-0.10	8.44E-06
8645	-0.10	8.30E-03	4687	-0.10	5.21E-04	6818	0.10	5.41E-03	10985	0.10	3.09E-09
8662	0.20	1.13E-03	4691	0.10	3.24E-03	6820	0.20	6.36E-08	11012	0.10	3.90E-06
8667	0.20	2.28E-03	4692	0.10	6.44E-05	6821	0.10	6.42E-04	11016	0.10	7.57E-06
8668	0.10	1.70E-04	4827	-0.10	5.92E-05	1808	-0.10	2.95E-03	11204	0.10	6.38E-03
8675	0.10	4.06E-04	4831	0.10	7.53E-03	1813	-0.10	2.30E-04	11219	0.10	5.39E-03
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-0.16	-0.16	-0.16
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0.09	0.09	0.09
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-0.12	-0.12	-0.12
0.08	0.08	0.08
-0.09	-0.09	-0.09
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-0.07	-0.07	-0.07
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-0.12	-0.12	-0.12
0.09	0.09	0.09
-0.05	-0.05	-0.05

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0.10	0.10	0.10
0.08	0.08	0.08
-0.11	-0.11	-0.11
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0.12	0.12	0.12
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0.11	0.11	0.11
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0.10	0.10	0.10
0.17	0.17	0.17
0.18	0.18	0.18
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-0.14	-0.14	-0.14
0.09	0.09	0.09

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-0.14	-0.14	-0.14
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0.13	0.13	0.13
-0.17	-0.17	-0.17
0.08	0.08	0.08
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0.13	0.13	0.13
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0.11	0.11	0.11
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0.22	0.22	0.22
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-0.10	-0.10	-0.10
0.22	0.22	0.22
0.22	0.22	0.22
0.07	0.07	0.07
0.11	0.11	0.11
0.10	0.10	0.10
0.06	0.06	0.06
0.07	0.07	0.07
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0.11	0.11	0.11
0.09	0.09	0.09
0.10	0.10	0.10
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0.10	0.10	0.10
-0.17	-0.17	-0.17
0.21	0.21	0.21
0.15	0.15	0.15
0.07	0.07	0.07
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0.08	0.08	0.08
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0.10	0.10	0.10
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0.20	0.20	0.20
0.08	0.08	0.08
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	-0.08	-0.08	-0.08
	-0.12	-0.12	-0.12
	-0.13	-0.13	-0.13
	0.09	0.09	0.09
	-0.12	-0.12	-0.12
	0.22	0.22	0.22
	-0.21	-0.21	-0.21
	0.13	0.13	0.13
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	0.06	0.06	0.06
	0.14	0.14	0.14
	-0.11	-0.11	-0.11
	-0.07	-0.07	-0.07
	-0.07	-0.07	-0.07
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0.15	0.15	0.15	0.15
-0.11	-0.11	-0.11	-0.11
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0.09	0.09	0.09	0.09
0.18	0.18	0.18	0.18
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0.15	0.15	0.15	0.15
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0.14	0.14	0.14	0.14
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0.11	0.11	0.11	0.11
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0.18	0.18	0.18	0.18
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0.14	0.14	0.14	0.14
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0.19	0.19	0.19	0.19
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0.09	0.09	0.09	0.09
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-0.08	-0.08	-0.08	-0.08

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0.09	0.09	0.09	0.09
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0.09	0.09	0.09	0.09

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0.12	0.12	0.12	0.12
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0.12	0.12	0.12	0.12
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0.20	0.20	0.20	0.20
0.13	0.13	0.13	0.13
0.09	0.09	0.09	0.09
0.16	0.16	0.16	0.16
0.12	0.12	0.12	0.12
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-0.15	-0.15	-0.15	-0.15
0.14	0.14	0.14	0.14
0.20	0.20	0.20	0.20
0.08	0.08	0.08	0.08
0.08	0.08	0.08	0.08
0.10	0.10	0.10	0.10
0.14	0.14	0.14	0.14
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-0.15	-0.15	-0.15	-0.15
-0.10	-0.10	-0.10	-0.10
0.07	0.07	0.07	0.07
0.15	0.15	0.15	0.15
-0.08	-0.08	-0.08	-0.08
0.08	0.08	0.08	0.08
-0.19	-0.19	-0.19	-0.19
0.09	0.09	0.09	0.09
0.07	0.07	0.07	0.07
0.12	0.12	0.12	0.12
0.16	0.16	0.16	0.16
0.11	0.11	0.11	0.11
0.10	0.10	0.10	0.10
-0.16	-0.16	-0.16	-0.16
0.08	0.08	0.08	0.08
0.17	0.17	0.17	0.17
0.07	0.07	0.07	0.07
-0.11	-0.11	-0.11	-0.11
0.09	0.09	0.09	0.09
-0.11	-0.11	-0.11	-0.11

0.11	0.11	0.11	0.11
0.11	0.11	0.11	0.11
-0.12	-0.12	-0.12	-0.12
0.10	0.10	0.10	0.10
-0.27	-0.27	-0.27	-0.27
-0.17	-0.17	-0.17	-0.17
-0.14	-0.14	-0.14	-0.14
-0.18	-0.18	-0.18	-0.18
-0.08	-0.08	-0.08	-0.08
0.11	0.11	0.11	0.11
-0.14	-0.14	-0.14	-0.14
-0.29	-0.29	-0.29	-0.29
-0.18	-0.18	-0.18	-0.18
-0.13	-0.13	-0.13	-0.13
-0.08	-0.08	-0.08	-0.08
-0.16	-0.16	-0.16	-0.16
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-0.14	-0.14	-0.14	-0.14
-0.18	-0.18	-0.18	-0.18
0.17	0.17	0.17	0.17
-0.12	-0.12	-0.12	-0.12
0.07	0.07	0.07	0.07
-0.13	-0.13	-0.13	-0.13
0.13	0.13	0.13	0.13
0.12	0.12	0.12	0.12
-0.18	-0.18	-0.18	-0.18
-0.14	-0.14	-0.14	-0.14
0.14	0.14	0.14	0.14
-0.08	-0.08	-0.08	-0.08
0.11	0.11	0.11	0.11
0.12	0.12	0.12	0.12
-0.08	-0.08	-0.08	-0.08
-0.07	-0.07	-0.07	-0.07
-0.21	-0.21	-0.21	-0.21
-0.14	-0.14	-0.14	-0.14
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0.12	0.12	0.12	0.12
-0.14	-0.14	-0.14	-0.14
-0.21	-0.21	-0.21	-0.21
0.10	0.10	0.10	0.10
-0.14	-0.14	-0.14	-0.14

0.10	0.10	0.10	0.10
0.09	0.09	0.09	0.09
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-0.10	-0.10	-0.10	-0.10
-0.09	-0.09	-0.09	-0.09
0.10	0.10	0.10	0.10
-0.14	-0.14	-0.14	-0.14
0.09	0.09	0.09	0.09
-0.19	-0.19	-0.19	-0.19
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-0.30	-0.30	-0.30	-0.30
-0.08	-0.08	-0.08	-0.08
0.16	0.16	0.16	0.16
0.10	0.10	0.10	0.10
-0.16	-0.16	-0.16	-0.16
0.10	0.10	0.10	0.10
0.09	0.09	0.09	0.09
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0.10	0.10	0.10	0.10
0.12	0.12	0.12	0.12
0.13	0.13	0.13	0.13
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0.16	0.16	0.16	0.16
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-0.14	-0.14	-0.14	-0.14
-0.22	-0.22	-0.22	-0.22
0.10	0.10	0.10	0.10
-0.12	-0.12	-0.12	-0.12
-0.18	-0.18	-0.18	-0.18

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0.10	0.10	0.10	0.10
0.16	0.16	0.16	0.16
-0.08	-0.08	-0.08	-0.08
-0.11	-0.11	-0.11	-0.11
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-0.11	-0.11	-0.11	-0.11
-0.29	-0.29	-0.29	-0.29
0.15	0.15	0.15	0.15
0.11	0.11	0.11	0.11
-0.17	-0.17	-0.17	-0.17
0.11	0.11	0.11	0.11
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-0.09	-0.09	-0.09	-0.09
-0.08	-0.08	-0.08	-0.08
0.10	0.10	0.10	0.10
-0.17	-0.17	-0.17	-0.17
0.16	0.16	0.16	0.16
0.21	0.21	0.21	0.21
0.11	0.11	0.11	0.11
0.23	0.23	0.23	0.23
0.12	0.12	0.12	0.12
-0.25	-0.25	-0.25	-0.25
-0.15	-0.15	-0.15	-0.15
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0.08	0.08	0.08	0.08
0.11	0.11	0.11	0.11
-0.21	-0.21	-0.21	-0.21
0.15	0.15	0.15	0.15
0.09	0.09	0.09	0.09

-0.17	-0.17	-0.17	-0.17
-0.16	-0.16	-0.16	-0.16
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0.18	0.18	0.18	0.18
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0.10	0.10	0.10	0.10
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-0.16	-0.16	-0.16	-0.16
0.16	0.16	0.16	0.16
0.11	0.11	0.11	0.11
0.19	0.19	0.19	0.19
0.08	0.08	0.08	0.08
0.14	0.14	0.14	0.14
-0.19	-0.19	-0.19	-0.19
0.07	0.07	0.07	0.07
0.10	0.10	0.10	0.10
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-0.15	-0.15	-0.15	-0.15
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0.07	0.07	0.07	0.07
0.13	0.13	0.13	0.13
-0.18	-0.18	-0.18	-0.18
0.14	0.14	0.14	0.14
-0.09	-0.09	-0.09	-0.09
0.12	0.12	0.12	0.12
-0.12	-0.12	-0.12	-0.12
0.10	0.10	0.10	0.10
-0.12	-0.12	-0.12	-0.12
0.14	0.14	0.14	0.14
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-0.15	-0.15	-0.15	-0.15
0.11	0.11	0.11	0.11
-0.24	-0.24	-0.24	-0.24
0.09	0.09	0.09	0.09
-0.11	-0.11	-0.11	-0.11
0.10	0.10	0.10	0.10
-0.19	-0.19	-0.19	-0.19

0.12	0.12	0.12	0.12
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0.07	0.07	0.07	0.07
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0.08	0.08	0.08	0.08
0.15	0.15	0.15	0.15
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0.13	0.13	0.13	0.13
-0.08	-0.08	-0.08	-0.08
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0.10	0.10	0.10	0.10
-0.19	-0.19	-0.19	-0.19
0.10	0.10	0.10	0.10
0.12	0.12	0.12	0.12
0.09	0.09	0.09	0.09
-0.07	-0.07	-0.07	-0.07
0.09	0.09	0.09	0.09
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-0.17	-0.17	-0.17	-0.17
-0.09	-0.09	-0.09	-0.09
0.07	0.07	0.07	0.07
-0.10	-0.10	-0.10	-0.10
-0.12	-0.12	-0.12	-0.12

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-0.14	-0.14	-0.14	-0.14
-0.11	-0.11	-0.11	-0.11
0.24	0.24	0.24	0.24
0.08	0.08	0.08	0.08
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0.15	0.15	0.15	0.15
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-0.11	-0.11	-0.11	-0.11
0.08	0.08	0.08	0.08
-0.08	-0.08	-0.08	-0.08
0.14	0.14	0.14	0.14
0.15	0.15	0.15	0.15
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0.09	0.09	0.09	0.09
-0.16	-0.16	-0.16	-0.16
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0.13	0.13	0.13	0.13
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0.07	0.07	0.07	0.07
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0.09	0.09	0.09	0.09
0.16	0.16	0.16	0.16
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0.10	0.10	0.10	0.10
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0.08	0.08	0.08	0.08
-0.18	-0.18	-0.18	-0.18
-0.14	-0.14	-0.14	-0.14
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0.08	0.08	0.08	0.08
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0.12	0.12	0.12	0.12
0.10	0.10	0.10	0.10
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0.07	0.07	0.07	0.07
0.11	0.11	0.11	0.11
0.15	0.15	0.15	0.15
-0.18	-0.18	-0.18	-0.18
0.23	0.23	0.23	0.23
0.18	0.18	0.18	0.18
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0.07	0.07	0.07	0.07
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0.10	0.10	0.10	0.10
0.08	0.08	0.08	0.08
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0.09	0.09	0.09	0.09
0.10	0.10	0.10	0.10
-0.08	-0.08	-0.08	-0.08
-0.08	-0.08	-0.08	-0.08
0.13	0.13	0.13	0.13
0.11	0.11	0.11	0.11

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-0.11	-0.11	-0.11	-0.11
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0.14	0.14	0.14	0.14
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0.10	0.10	0.10	0.10
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0.09	0.09	0.09	0.09
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0.09	0.09	0.09	0.09
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-0.09	-0.09	-0.09	-0.09
0.14	0.14	0.14	0.14
0.19	0.19	0.19	0.19
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0.09	0.09	0.09	0.09
0.08	0.08	0.08	0.08
0.10	0.10	0.10	0.10
0.07	0.07	0.07	0.07
0.08	0.08	0.08	0.08
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-0.09	-0.09	-0.09	-0.09
-0.17	-0.17	-0.17	-0.17
0.09	0.09	0.09	0.09
0.10	0.10	0.10	0.10
0.12	0.12	0.12	0.12
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0.10	0.10	0.10	0.10
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0.23	0.23	0.23	0.23
0.15	0.15	0.15	0.15
0.08	0.08	0.08	0.08

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0.14	0.14	0.14	0.14
0.11	0.11	0.11	0.11
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0.17	0.17	0.17	0.17
0.10	0.10	0.10	0.10
0.08	0.08	0.08	0.08
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0.21	0.21	0.21	0.21
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0.07	0.07	0.07	0.07
0.13	0.13	0.13	0.13
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0.14	0.14	0.14	0.14
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0.11	0.11	0.11	0.11
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0.18	0.18	0.18	0.18
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-0.09	-0.09	-0.09	-0.09
-0.12	-0.12	-0.12	-0.12
-0.21	-0.21	-0.21	-0.21
-0.12	-0.12	-0.12	-0.12
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-0.12	-0.12	-0.12	-0.12
0.08	0.08	0.08	0.08
0.18	0.18	0.18	0.18
-0.19	-0.19	-0.19	-0.19
0.09	0.09	0.09	0.09
0.13	0.13	0.13	0.13
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-0.16	-0.16	-0.16	-0.16
0.25	0.25	0.25	0.25
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-0.10	-0.10	-0.10	-0.10
-0.11	-0.11	-0.11	-0.11
-0.07	-0.07	-0.07	-0.07
0.08	0.08	0.08	0.08
0.10	0.10	0.10	0.10
-0.15	-0.15	-0.15	-0.15
-0.08	-0.08	-0.08	-0.08
-0.18	-0.18	-0.18	-0.18
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-0.20	-0.20	-0.20	-0.20
-0.15	-0.15	-0.15	-0.15
-0.07	-0.07	-0.07	-0.07
0.12	0.12	0.12	0.12
0.08	0.08	0.08	0.08
0.15	0.15	0.15	0.15

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0.15	0.15	0.15	0.15
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-0.17	-0.17	-0.17	-0.17
0.15	0.15	0.15	0.15
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-0.18	-0.18	-0.18	-0.18
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0.13	0.13	0.13	0.13
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-0.14	-0.14	-0.14	-0.14
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-0.16	-0.16	-0.16	-0.16
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0.07	0.07	0.07	0.07
-0.16	-0.16	-0.16	-0.16
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-0.19	-0.19	-0.19	-0.19
0.12	0.12	0.12	0.12
0.11	0.11	0.11	0.11
-0.08	-0.08	-0.08	-0.08
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0.11	0.11	0.11	0.11
0.07	0.07	0.07	0.07
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0.08	0.08	0.08	0.08
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0.17	0.17	0.17	0.17
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0.09	0.09	0.09	0.09
0.12	0.12	0.12	0.12
0.08	0.08	0.08	0.08
-0.15	-0.15	-0.15	-0.15
0.14	0.14	0.14	0.14
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0.12	0.12	0.12	0.12
0.12	0.12	0.12	0.12
0.09	0.09	0.09	0.09
0.10	0.10	0.10	0.10
0.12	0.12	0.12	0.12
0.07	0.07	0.07	0.07
0.11	0.11	0.11	0.11
0.16	0.16	0.16	0.16
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0.13	0.13	0.13	0.13
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0.08	0.08	0.08	0.08
-0.08	-0.08	-0.08	-0.08
0.07	0.07	0.07	0.07
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0.08	0.08	0.08	0.08
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0.17	0.17	0.17	0.17
0.19	0.19	0.19	0.19
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0.12	0.12	0.12	0.12
0.07	0.07	0.07	0.07
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0.08	0.08	0.08	0.08

A	B	C
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1429	0.10	2.02E-03
1431	0.00	9.10E-03
1433	0.00	9.04E-03
1434	-0.10	3.17E-05
1435	0.10	1.96E-03
1436	0.10	5.21E-04
1439	-0.10	3.23E-04
1451	-0.10	6.86E-04
1455	-0.10	6.92E-03
1463	-0.10	3.57E-04
1464	-0.10	8.83E-05
1468	-0.10	3.63E-03
1472	0.10	1.88E-04
1484	-0.10	8.84E-03
1491	-0.10	8.41E-04
1498	0.10	1.39E-11
1500	-0.10	3.79E-05
1506	0.10	4.60E-03
1511	-0.10	2.90E-03
1522	0.10	6.77E-03
1524	-0.10	1.31E-03
1527	0.10	1.70E-07
1530	0.10	1.02E-03
1534	-0.10	6.91E-03
1541	-0.10	1.41E-03
1547	0.10	5.86E-04
1552	-0.10	3.59E-03
1555	-0.20	2.13E-04
1571	0.10	3.62E-08
1575	0.10	1.81E-08
1581	-0.10	1.17E-03
1583	0.10	6.97E-03
1586	0.20	1.22E-03
1588	0.10	1.83E-03
1596	0.10	2.61E-05
1599	-0.10	5.16E-07
1615	0.10	7.03E-03

1616	-0.10	8.33E-06
1625	-0.10	4.52E-04
1636	0.10	2.61E-04
1642	-0.10	1.78E-06
1644	0.10	4.58E-05
1652	-0.10	1.04E-03
1653	-0.10	1.02E-14
1677	-0.10	6.04E-10
1681	-0.10	7.44E-04
1686	-0.10	4.38E-09
1699	-0.20	4.07E-08
1700	0.10	6.22E-03
1705	0.10	4.95E-03
1710	0.10	3.12E-04
1714	-0.10	3.53E-04
1718	0.00	8.03E-03
1730	-0.10	5.75E-07
1737	-0.10	2.01E-04
1744	-0.10	4.49E-04
1745	-0.10	4.50E-04
1751	-0.10	3.37E-07
1779	-0.10	2.16E-06
1788	0.10	2.99E-04
1790	0.00	2.45E-03
1805	0.10	2.18E-04
11553	-0.10	2.39E-08
11555	0.10	1.51E-03
11569	-0.30	1.94E-44
11574	0.10	2.81E-04
11577	-0.10	2.75E-03
11581	-0.10	3.94E-03
11593	-0.10	6.95E-03
11594	-0.10	1.01E-06
11603	-0.10	3.97E-05
11605	0.10	9.49E-04
11622	-0.10	4.23E-03
11628	0.10	1.46E-03
11641	-0.10	7.44E-05
11647	0.10	2.79E-04
11652	0.10	6.40E-04
11659	0.10	4.49E-03

11680	0.10	4.18E-04
11686	-0.10	6.04E-04
11692	0.10	1.05E-05
11701	0.10	1.71E-06
11702	0.20	7.07E-20
11714	0.10	6.71E-04
11721	-0.10	5.03E-03
11722	0.10	3.22E-03
11749	-0.10	8.11E-03
11788	0.10	1.08E-03
11796	0.10	9.22E-03
11799	-0.10	3.66E-04
11809	0.10	2.60E-05
11833	0.10	8.93E-03
11856	-0.10	1.25E-04
11858	-0.10	7.80E-04
11862	-0.10	5.49E-04
11864	0.10	4.61E-04
11875	0.10	5.63E-04
11879	0.10	2.76E-03
11894	0.10	4.55E-05
11895	-0.10	3.59E-04
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11901	-0.10	1.49E-06
11902	0.10	3.19E-03
11915	0.20	1.19E-24
11932	0.10	9.38E-03
11933	-0.10	1.18E-04
11934	0.20	1.16E-16
11940	0.10	3.11E-05
11945	-0.10	2.20E-04
11947	0.10	5.06E-04
11961	0.10	5.06E-04
11967	-0.10	2.67E-03
11977	0.10	1.37E-05
11983	-0.10	1.42E-03
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12012	0.10	2.43E-03
12019	0.10	7.37E-03
12032	-0.10	2.74E-04

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12058	-0.10	7.21E-06
12059	-0.10	6.08E-04
12065	0.10	2.48E-03
12066	-0.10	1.25E-04
12110	0.20	1.22E-04
12118	0.10	9.56E-04
12127	0.10	3.72E-03
12132	-0.10	6.47E-04
12152	-0.10	2.30E-03
12162	0.10	1.35E-03
12166	0.20	3.11E-09
12174	0.10	1.06E-06
12175	-0.10	1.83E-04
12186	-0.10	1.92E-06
12228	0.10	7.47E-06
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12242	0.10	1.83E-06
12253	0.10	9.69E-04
12273	0.10	4.36E-03
12280	-0.10	7.91E-04
12284	-0.10	7.74E-09
12286	-0.20	2.55E-07
12288	-0.10	5.35E-07
12289	0.20	2.05E-03
12291	-0.10	1.94E-15
12293	0.10	4.83E-05
12299	0.10	3.20E-03
12307	-0.10	2.22E-05
12322	-0.10	3.62E-04
12327	0.10	2.32E-03
12334	0.10	5.95E-03
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12341	-0.10	5.68E-03
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12356	0.10	7.74E-03
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12377	-0.10	7.80E-03
12411	-0.10	3.02E-05

12412	0.10	1.03E-03
12424	-0.10	2.27E-03
12433	0.00	6.81E-03
12438	-0.10	5.67E-04
12456	-0.10	1.77E-05
12462	-0.10	6.64E-16
12465	0.10	9.09E-03
12482	0.20	3.53E-10
12483	-0.10	7.75E-06
12484	0.10	5.69E-03
12487	0.10	2.37E-04
12493	0.10	2.43E-04
12496	-0.10	1.36E-04
12500	-0.10	6.47E-03
12515	0.10	6.55E-03
12518	-0.10	1.77E-03
12524	-0.10	6.14E-04
12532	0.10	3.40E-03
12542	0.10	8.80E-05
12557	0.10	8.53E-04
12565	-0.10	8.27E-04
12581	-0.10	1.30E-03
12584	0.10	1.07E-03
12590	0.10	9.54E-03
12591	0.10	2.19E-06
12597	0.10	8.02E-03
12598	0.10	2.57E-05
12613	0.10	2.74E-04
12625	-0.10	6.57E-03
12644	0.10	1.56E-06
12655	0.00	9.71E-03
12656	0.10	3.60E-05
12658	0.10	3.33E-06
12668	0.10	3.73E-04
12670	0.10	3.98E-03
12674	-0.10	9.09E-06
12683	0.10	7.32E-04
12684	-0.10	9.23E-04
12685	0.10	2.90E-03
12693	-0.10	1.71E-03
12701	-0.10	2.87E-04

12702	0.20	3.50E-05
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12720	-0.10	2.85E-03
12742	0.10	4.42E-03
12749	0.00	5.71E-03
12754	0.10	1.12E-03
12766	0.10	3.86E-03
12785	-0.10	4.85E-03
12798	0.10	7.21E-07
12802	-0.10	6.41E-03
12816	0.20	5.54E-10
12826	-0.10	2.26E-06
12828	0.10	1.06E-06
12833	0.10	3.04E-06
12837	-0.10	5.31E-04
12846	-0.10	2.95E-04
12849	0.10	3.40E-06
12856	-0.10	1.04E-06
12865	0.10	3.04E-03
12876	0.10	1.32E-04
12880	0.10	8.71E-03
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12885	-0.10	1.25E-06
12887	-0.10	1.14E-03
12894	0.10	9.68E-03
12897	-0.10	2.57E-03
12905	0.10	4.17E-07
12927	0.10	1.23E-04
12945	-0.10	8.89E-07
12946	0.10	7.25E-03
12952	-0.10	4.88E-03
12969	-0.10	1.78E-06
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12980	0.10	2.17E-03
12995	-0.10	4.71E-05
12998	-0.10	2.88E-06
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13009	0.10	6.28E-09
13020	-0.10	6.84E-04
13043	-0.10	5.74E-03

13048	0.10	8.82E-03
13051	-0.10	3.27E-04
13054	-0.10	1.87E-04
13060	0.10	1.96E-03
13063	0.10	1.45E-06
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13075	-0.10	6.94E-03
13077	0.10	2.75E-04
13080	0.10	1.26E-03
13086	0.20	6.74E-05
13089	0.10	1.36E-03
13091	0.10	8.32E-03
13094	0.10	2.09E-03
13109	-0.10	1.04E-03
13111	-0.10	4.19E-16
13116	0.10	4.32E-04
13123	0.10	4.51E-03
13124	0.00	7.43E-03
13142	0.10	5.96E-05
13143	-0.10	1.37E-08
13149	-0.10	9.55E-03
13161	0.10	3.37E-09
13194	-0.10	4.06E-03
13195	0.10	1.18E-03
13200	-0.10	7.59E-07
13230	0.00	9.39E-03
13238	0.10	4.65E-04
13258	0.10	1.44E-03
13259	0.10	3.34E-03
13264	0.10	2.00E-06
13276	-0.10	3.58E-09
13281	0.10	1.21E-04
13295	-0.10	6.88E-03
13297	-0.10	7.95E-03
13305	0.10	1.62E-03
13306	0.10	9.26E-03
13310	-0.10	5.94E-03
13332	0.10	6.18E-04
13352	0.10	3.02E-03
13372	0.10	1.43E-03
13379	0.10	7.92E-03

13382	-0.10	3.19E-03
13384	0.10	7.84E-05
13388	0.00	9.38E-03
13411	-0.10	8.37E-03
13423	-0.10	9.82E-08
13426	-0.10	5.04E-05
13447	-0.10	9.67E-03
13460	-0.10	4.36E-03
13483	0.10	6.89E-06
13485	-0.10	7.26E-06
13512	-0.10	2.76E-05
13516	-0.10	6.74E-04
13519	-0.10	7.57E-03
13526	0.00	7.60E-03
13527	0.10	3.00E-05
13529	-0.10	3.65E-04
13552	-0.10	8.20E-05
13554	0.10	2.70E-03
13565	0.10	3.26E-05
13608	-0.10	4.16E-09
13609	-0.10	1.28E-06
13618	-0.10	1.65E-03
13635	0.10	4.62E-03
13637	0.10	6.29E-04
13642	-0.10	6.10E-03
13654	0.10	5.16E-03
13656	0.00	2.13E-03
13675	0.10	2.72E-03
13689	0.10	3.20E-03
13706	-0.20	4.15E-07
13712	0.10	3.81E-04
13737	-0.10	7.86E-03
13738	-0.10	2.25E-03
13740	0.00	8.27E-03
13767	0.10	2.30E-05
13772	0.00	7.04E-03
13777	-0.10	1.24E-03
13791	-0.10	1.51E-03
13793	0.10	4.90E-03
13795	-0.10	8.84E-03
13832	-0.10	4.88E-05

13837	0.10	8.49E-03
13838	-0.10	9.19E-03
13839	0.10	3.96E-10
13845	-0.10	2.37E-03
13865	0.20	1.29E-04
13873	-0.10	7.28E-06
13878	0.10	1.21E-06
13879	0.10	6.67E-05
13885	-0.10	9.73E-03
13891	0.10	3.80E-04
13916	0.10	1.21E-03
13917	0.10	5.71E-06
13927	-0.10	3.57E-05
13930	-0.10	3.87E-05
13949	0.10	8.31E-04.
13954	0.10	3.43E-03
13955	-0.10	3.62E-03
13958	0.10	3.92E-03
13959	-0.10	5.83E-03
13977	-0.10	7.84E-03
13984	0.10	2.17E-03
13994	-0.10	3.54E-03
14008	-0.10	4.41E-04
14010	0.10	3.81E-07
14025	0.10	6.60E-03
14036	0.10	5.71E-03
14039	0.10	1.75E-03
14057	0.10	6.11E-04
14079	-0.10	6.23E-04
14081	0.10	5.68E-04
14083	0.10	8.83E-03
14087	-0.20	5.40E-09
14093	-0.10	1.24E-05
14113	-0.10	2.07E-03
14131	0.10	2.24E-04
14136	0.10	7.55E-03
14160	-0.10	1.18E-03
14170	-0.10	1.16E-15
14176	-0.10	7.98E-04
14178	0.00	8.13E-03
14191	0.10	4.48E-07
14195	0.10	5.60E-07

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14222	0.20	3.49E-06
14237	0.10	1.46E-03
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14246	0.10	7.13E-10
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14408	0.12	5.00E-02
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14745	-0.13	5.00E-02
14779	0.07	5.00E-02
14959	-0.02	5.00E-02
14309	-0.10	7.03E-03
14311	0.10	4.30E-04
14333	-0.10	7.34E-04
14367	-0.10	1.63E-03
14369	-0.10	5.87E-04
14381	0.10	4.62E-03
14389	0.10	2.72E-03
14406	0.10	2.51E-03
14411	0.10	7.53E-05
14414	0.00	1.05E-03
14415	0.10	1.13E-07
14422	0.10	5.68E-03
14430	-0.10	2.97E-05
14436	-0.10	9.44E-08
14451	-0.10	1.21E-07
14460	-0.10	2.64E-03
14463	-0.10	4.24E-03
14479	0.10	1.96E-06
14487	-0.10	2.57E-03
14494	-0.10	2.08E-03
14507	-0.10	4.26E-05
14519	0.10	2.75E-03
14524	0.10	4.97E-03
14533	0.10	9.91E-08
14535	0.10	5.32E-03
14539	0.10	9.36E-04
14544	-0.10	1.15E-03
14555	-0.10	3.10E-03
14560	0.10	9.20E-03

14572	0.10	5.06E-03
14582	-0.10	3.94E-04
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14626	0.10	4.21E-03
14649	-0.10	2.83E-03
14654	-0.10	1.96E-03
14661	0.10	9.19E-03
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14667	0.10	3.17E-05
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14689	-0.10	7.78E-03
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14697	0.10	4.23E-03
14698	0.10	3.34E-03
14700	0.10	2.13E-08
14704	-0.10	2.11E-03
14705	0.10	8.66E-04
14727	-0.10	4.84E-03
14734	0.10	1.52E-04
14739	-0.10	1.85E-04
14773	0.10	7.14E-09
14777	0.10	9.23E-06
14778	-0.10	2.48E-05
14825	0.10	1.91E-05
14860	-0.10	5.40E-03
14872	0.10	1.13E-03

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TABLE 7 - GENETIC MARKERS FOR PROTEIN %

A	B	C	A	B	C	A	B	C	A	B	C
4	0.00	7.76E-03	2222	0.00	2.44E-03	4581	0.10	4.52E-12	7004	0.00	8.08E-04
16	0.00	8.53E-03	2233	0.00	5.24E-03	4582	0.00	8.96E-03	7008	0.00	2.44E-05
18	-0.10	2.14E-03	2238	0.00	1.45E-05	4583	0.00	9.08E-05	7018	-0.10	2.93E-07
21	0.00	2.23E-07	2248	0.00	9.68E-03	4586	0.00	8.52E-03	7023	0.00	6.63E-05
36	-0.10	3.59E-06	2250	-0.10	3.32E-11	4613	0.00	5.95E-06	7038	0.10	5.15E-03
52	0.00	3.73E-05	2251	0.00	9.40E-03	4620	0.00	3.38E-04	7052	-0.10	7.48E-03
54	0.00	6.23E-05	2257	0.00	4.76E-03	4621	0.00	7.55E-06	7055	0.00	1.49E-03
63	0.00	2.36E-05	2260	0.00	1.74E-05	4634	-0.10	9.59E-07	7072	0.00	2.50E-06
66	0.00	1.19E-04	2267	0.00	3.35E-03	4638	0.00	5.65E-04	7073	0.00	2.50E-06
67	0.00	7.93E-03	2268	-0.10	1.30E-05	4639	0.00	9.77E-04	7078	0.00	1.58E-03
73	0.00	5.07E-05	2271	0.00	7.74E-03	4644	0.00	2.66E-03	7084	-0.10	2.17E-05
86	0.10	5.30E-03	2283	0.00	2.90E-03	4648	0.10	2.25E-06	7086	0.00	2.68E-03
88	-0.10	3.29E-03	2289	0.10	1.33E-03	4654	-0.10	1.15E-11	7087	0.00	1.33E-05
99	0.00	3.98E-05	2291	0.00	3.49E-04	4662	0.00	2.35E-05	7091	0.00	5.29E-03
106	0.00	7.75E-04	2295	0.00	2.07E-05	4671	0.00	2.51E-04	7093	-0.10	3.36E-03
117	0.00	5.23E-03	2298	0.00	2.08E-05	4675	0.00	6.33E-04	7094	-0.10	1.56E-05
121	0.00	6.73E-03	2315	0.00	2.53E-05	4679	-0.10	2.02E-11	7101	0.00	1.91E-07
122	0.00	2.19E-03	2317	0.00	7.02E-04	4683	0.00	1.67E-03	7108	0.00	3.65E-04
136	-0.10	6.48E-04	2318	0.00	1.25E-03	4689	0.00	9.46E-03	7112	0.00	1.93E-04
137	0.00	2.31E-03	2320	0.00	3.18E-03	4690	0.00	1.01E-03	7116	0.10	1.07E-09
139	0.00	2.78E-03	2322	0.00	2.96E-04	4696	0.00	1.17E-06	7122	0.00	9.58E-03
148	-0.10	5.11E-09	2324	0.00	1.71E-03	4697	-0.10	5.04E-04	7123	0.10	2.06E-09
152	0.00	2.84E-04	2325	0.00	8.23E-07	4700	0.00	4.75E-03	7124	0.00	2.11E-03
158	0.00	5.53E-03	2327	-0.10	4.08E-03	4739	0.00	7.88E-04	7133	0.00	2.52E-04
161	0.00	1.67E-04	2328	0.00	7.31E-04	4740	0.00	4.84E-04	7138	0.00	7.12E-03
162	-0.10	2.32E-03	2329	0.00	9.45E-06	4756	0.00	2.97E-08	7160	0.10	1.17E-06
168	0.00	4.13E-05	2330	0.00	3.38E-03	4757	0.00	5.76E-05	7162	0.00	2.59E-03
171	0.00	1.69E-05	2331	0.00	4.09E-03	4760	0.00	1.78E-03	7170	0.00	6.94E-03
173	-0.10	1.11E-06	2335	0.00	2.04E-07	4761	0.00	1.62E-03	7181	-0.10	3.90E-04
174	0.00	1.61E-03	2343	0.00	8.58E-03	4762	0.00	4.45E-03	7197	0.00	8.90E-07
176	0.00	2.68E-04	2353	0.00	6.39E-03	4782	0.00	8.20E-03	7199	0.00	3.21E-07
181	0.10	2.01E-09	2360	0.00	1.36E-05	4786	0.00	1.96E-04	7200	0.00	4.68E-03
189	-0.10	9.95E-05	2380	-0.10	1.41E-03	4790	0.00	1.47E-03	7202	-0.10	7.75E-04
191	0.00	3.12E-03	2390	0.00	8.23E-04	4794	0.00	1.68E-04	7203	0.00	5.74E-04
194	0.00	4.36E-04	2396	0.00	5.51E-03	4796	0.00	2.33E-05	7206	-0.10	1.16E-06
200	0.00	3.71E-07	2400	0.00	3.70E-04	4797	0.00	1.19E-03	7218	0.00	3.63E-05
201	0.00	5.83E-05	2405	0.00	6.25E-03	4800	0.00	9.54E-04	7219	0.00	2.15E-04
205	0.00	2.08E-05	2406	0.00	2.65E-04	4801	0.00	4.41E-04	7223	0.00	6.64E-03
206	0.00	1.70E-03	2407	0.10	6.01E-04	4817	0.00	1.82E-03	7227	0.00	6.99E-03

210	0.00	8.75E-04	2408	0.00	1.43E-03	4820	0.00	6.00E-05	7228	0.00	6.63E-03
217	0.00	6.66E-03	2427	0.00	1.79E-06	4834	0.00	2.97E-03	7229	0.00	3.37E-03
231	-0.10	4.13E-10	2450	0.10	4.64E-04	4835	0.00	1.71E-03	7232	0.00	4.62E-04
233	0.00	2.36E-05	2452	0.00	1.46E-03	4838	0.00	4.48E-03	7238	0.00	7.57E-03
242	0.00	4.11E-06	2465	0.00	2.22E-03	4843	0.00	1.27E-04	7239	0.00	3.03E-04
244	0.00	9.61E-03	2470	0.00	3.33E-05	4852	0.00	1.47E-03	7252	-0.10	2.03E-05
249	0.00	5.54E-03	2472	0.00	2.47E-04	4865	-0.10	2.77E-05	7258	0.10	9.19E-04
250	0.00	4.48E-03	2476	0.10	7.43E-13	4866	-0.10	3.16E-05	7261	0.00	4.99E-03
255	0.10	6.46E-04	2477	-0.10	8.02E-04	4873	0.00	5.73E-03	7267	-0.10	2.51E-03
262	0.00	1.34E-03	2491	0.00	1.90E-05	4879	0.00	1.10E-03	7271	0.00	9.58E-04
281	0.00	1.30E-03	2495	0.00	6.71E-04	4882	0.00	9.87E-03	7277	0.00	6.54E-03
291	0.00	3.98E-05	2508	0.00	5.73E-04	4885	0.00	2.59E-04	7280	0.00	4.72E-03
298	0.00	1.48E-05	2511	0.00	3.36E-05	4893	0.00	2.72E-06	7286	0.00	4.66E-03
305	0.00	4.47E-05	2521	0.00	1.01E-03	4894	0.00	1.15E-06	7293	0.00	2.06E-06
307	0.00	9.50E-05	2522	0.00	7.52E-05	4898	0.00	1.95E-06	7300	0.00	3.08E-03
312	0.00	9.06E-03	2523	0.00	4.76E-05	4914	0.00	5.73E-05	7305	0.00	1.36E-03
318	0.00	2.89E-04	2532	0.00	5.57E-06	4919	0.10	1.38E-03	7310	0.00	7.38E-03
323	0.00	2.93E-03	2568	0.10	1.63E-08	4920	0.00	9.21E-03	7311	-0.10	8.76E-08
326	0.00	4.37E-03	2577	-0.10	2.34E-04	4924	0.00	4.78E-04	7315	0.00	5.54E-03
330	-0.10	3.74E-06	2580	0.00	1.92E-05	4936	-0.10	4.35E-13	7316	0.00	7.97E-05
337	0.00	4.33E-03	2595	0.00	3.49E-07	4938	0.00	1.34E-06	7317	0.00	9.66E-05
343	0.00	5.50E-03	2599	0.00	5.64E-03	4947	-0.10	5.05E-03	7320	0.00	6.76E-03
198											
348	0.00	7.32E-05	2604	-0.10	4.35E-09	4948	0.00	5.83E-03	7329	0.00	6.62E-03
354	0.00	2.27E-03	2608	0.00	3.18E-07	4957	0.00	9.83E-04	7336	0.00	9.07E-04
364	0.00	2.59E-03	2612	0.00	4.15E-05	4958	0.00	3.58E-04	7356	0.00	2.62E-05
366	0.00	3.35E-03	2620	0.00	2.62E-05	4962	0.00	5.54E-03	7374	0.00	6.74E-07
367	0.00	7.77E-03	2626	0.00	3.45E-05	4965	0.00	2.69E-03	7380	0.00	9.06E-07
372	0.00	3.73E-03	2630	0.10	4.71E-03	4966	0.00	9.80E-03	7386	0.00	5.83E-04
377	-0.10	6.07E-05	2642	0.00	2.67E-04	4976	0.00	1.38E-03	7392	-0.10	8.69E-04
381	0.00	2.80E-06	2652	0.00	2.38E-03	4981	0.00	1.89E-04	7401	0.00	5.20E-05
383	-0.10	3.07E-03	2655	0.00	8.57E-04	4982	0.00	2.99E-05	7412	0.00	7.89E-04
393	0.00	2.04E-03	2665	0.00	9.85E-03	4994	0.00	1.04E-04	7415	0.00	1.06E-03
394	0.00	1.74E-07	2668	0.00	2.78E-05	4996	-0.10	2.22E-06	7425	0.00	8.72E-03
397	0.00	7.77E-03	2673	0.00	2.82E-03	4997	0.00	1.54E-03	7443	0.00	1.65E-03
404	0.10	5.19E-08	2687	0.00	5.21E-04	5025	0.00	4.00E-05	7447	0.00	4.01E-03
410	0.00	8.47E-04	2696	0.00	6.06E-03	5032	-0.10	7.41E-03	7448	0.00	1.08E-06
411	0.00	7.18E-04	2698	0.00	4.16E-04	5036	0.00	7.04E-03	7460	0.10	8.75E-08
415	0.00	5.86E-03	2712	0.00	1.76E-03	5042	0.00	1.28E-03	7468	0.00	8.78E-04
425	0.00	8.24E-04	2714	-0.10	5.76E-05	5043	0.00	3.64E-03	7476	-0.10	1.38E-03
426	0.00	1.01E-03	2717	0.00	1.59E-03	5048	0.00	3.19E-03	7490	0.00	8.28E-06
450	0.00	1.44E-04	2727	0.00	8.60E-06	5053	0.00	2.30E-03	7491	0.00	1.23E-03

474	0.00	3.91E-03
479	-0.10	3.04E-03
497	0.00	1.02E-04
498	0.00	4.48E-04
502	0.00	1.12E-07
505	0.00	5.07E-04
507	-0.10	4.64E-08
509	0.00	3.78E-03
513	-0.10	7.02E-06
520	0.10	3.14E-03
521	0.00	1.71E-05
523	0.00	2.28E-03
538	0.00	1.05E-04
540	0.00	8.63E-03
556	0.00	2.43E-04
558	-0.10	1.05E-03
559	0.00	3.26E-06
565	0.00	8.81E-03
570	0.00	2.35E-05
571	0.00	8.18E-03
586	0.00	4.40E-03
594	0.00	1.84E-03
595	0.00	1.73E-04
614	0.00	3.29E-06
615	0.00	7.60E-04
620	0.00	1.00E-06
623	0.00	5.76E-03
644	0.00	1.05E-03
647	0.00	1.47E-05
649	0.00	8.88E-03
652	0.10	2.93E-06
657	0.00	2.84E-03
665	0.00	7.01E-03
672	0.00	9.64E-05
680	0.00	9.84E-04
683	0.00	6.62E-03
690	-0.10	1.78E-07
696	0.00	3.89E-05
707	0.00	3.49E-07
708	0.10	6.16E-03
722	0.00	5.63E-05
730	-0.10	4.92E-09

2730	-0.10	4.24E-04
2731	-0.10	3.42E-04
2735	0.10	1.40E-09
2736	0.10	3.63E-09
2737	0.10	3.01E-04
2740	0.00	6.41E-03
2746	0.00	1.13E-03
2752	0.00	4.14E-03
2754	0.00	3.74E-08
2756	-0.10	3.81E-15
2769	0.00	6.23E-03
2774	0.00	2.16E-03
2776	-0.10	3.56E-03
2777	-0.10	9.27E-06
2778	0.00	2.07E-06
2779	0.00	6.10E-04
2780	0.00	2.26E-03
2781	0.00	3.65E-03
2786	0.00	1.37E-03
2816	0.00	7.12E-03
2838	0.00	7.25E-07
2843	0.10	1.38E-10
2848	0.00	3.28E-05
2857	0.00	3.13E-03
2867	-0.10	4.98E-05
2890	0.00	3.90E-07
2891	0.00	2.11E-03
2902	0.00	4.29E-04
2909	0.00	1.15E-03
2916	0.00	5.92E-03
2942	0.00	8.09E-03
2946	0.00	7.71E-07
2952	0.00	2.51E-03
2959	0.00	1.15E-03
2978	0.00	7.32E-07
3006	0.00	8.98E-07
3008	0.00	1.43E-03
3015	0.10	1.13E-06
3026	0.00	2.62E-05
3027	-0.10	2.73E-05
3034	0.00	2.47E-04
3035	0.00	1.11E-03

5070	0.00	1.92E-03
5079	0.00	5.39E-03
5086	0.00	8.27E-05
5103	0.00	9.42E-03
5104	0.00	5.19E-04
5106	-0.10	2.11E-03
5107	0.00	7.30E-04
5117	0.10	7.02E-04
5122	0.00	4.34E-04
5124	0.00	1.50E-06
5125	0.00	2.44E-03
5133	-0.10	1.04E-06
5135	0.00	9.74E-03
5148	-0.10	3.83E-06
5163	0.00	1.55E-04
5170	0.00	3.61E-04
5172	0.00	3.22E-03
5177	0.00	1.17E-04
5185	0.00	5.88E-03
5197	0.00	2.13E-05
5198	0.00	4.47E-05
5207	0.00	5.54E-03
5209	0.00	2.70E-03
5221	0.00	9.14E-03
5241	0.00	1.20E-07
5252	0.00	9.85E-03
5258	0.10	2.85E-04
5261	0.00	9.61E-05
5275	0.00	2.46E-03
5280	0.00	7.62E-03
5285	0.00	6.17E-06
5291	0.10	8.98E-04
5302	0.00	2.10E-04
5308	0.00	1.17E-08
5317	0.00	4.18E-08
5326	0.00	5.45E-06
5329	0.00	3.62E-03
5336	0.00	8.87E-06
5343	0.00	7.22E-03
5344	0.00	7.05E-05
5345	0.00	1.27E-05
5348	0.00	7.35E-04

7496	0.00	4.70E-03
7497	0.00	1.44E-03
7502	0.00	2.31E-04
7518	0.10	2.50E-03
7520	0.10	6.87E-09
7532	0.00	9.93E-04
7540	0.00	4.04E-04
7545	0.00	5.06E-03
7549	0.00	3.55E-03
7559	0.00	2.25E-03
7560	0.10	4.56E-10
7568	0.00	3.32E-05
7569	0.00	2.50E-05
7570	0.00	2.25E-04
7571	0.00	6.66E-04
7573	0.00	3.53E-06
7578	0.00	6.08E-05
7580	0.00	1.03E-03
7584	0.00	2.76E-04
7594	-0.10	7.33E-08
7595	0.00	3.15E-04
7599	0.10	3.25E-08
7601	0.00	3.04E-05
7611	0.00	1.20E-04
7624	0.10	1.26E-04
7642	0.00	6.10E-04
7644	0.00	3.97E-03
7646	-0.10	1.29E-03
7660	0.10	4.76E-06
7661	0.00	3.56E-03
7665	0.00	2.48E-05
7672	0.00	1.53E-03
7688	0.00	4.75E-03
7689	0.10	4.13E-12
7690	0.00	1.44E-06
7691	0.00	2.49E-06
7695	0.00	9.46E-03
7701	0.00	1.06E-04
7709	0.10	2.36E-03
7721	-0.10	4.02E-07
7722	0.00	1.02E-03
7724	0.00	3.29E-03

736	0.00	3.36E-05	3050	-0.10	6.60E-11	5350	0.00	8.18E-03	7737	0.00	2.34E-06
749	0.00	1.88E-03	3051	0.00	6.21E-05	5355	0.00	6.40E-04	7739	0.00	3.48E-07
199											
754	-0.10	6.99E-05	3053	0.00	2.62E-04	5361	0.00	1.17E-03	7745	0.00	9.71E-04
760	-0.10	3.58E-03	3066	0.00	3.48E-03	5363	0.00	8.22E-04	7756	-0.10	4.09E-03
762	0.10	8.84E-11	3068	0.10	5.24E-09	5367	0.00	1.95E-04	7759	0.00	1.74E-03
764	0.00	1.71E-03	3069	0.00	3.20E-04	5379	0.00	1.33E-03	7774	0.00	9.87E-05
766	0.00	9.15E-03	3072	0.00	4.90E-03	5391	0.00	1.97E-03	7777	0.00	4.01E-04
768	0.00	2.73E-03	3084	0.00	1.43E-03	5395	0.00	2.12E-03	7781	0.00	3.06E-05
777	0.00	2.84E-05	3097	-0.10	6.72E-08	5398	0.10	3.59E-08	7782	0.00	1.37E-03
790	0.00	5.91E-03	3100	0.00	1.19E-03	5404	0.00	2.42E-07	7785	0.00	9.52E-03
792	0.00	7.13E-03	3102	0.10	4.45E-03	5406	0.00	6.37E-03	7789	0.00	6.58E-03
794	0.00	9.01E-03	3118	0.00	1.91E-05	5411	0.00	2.29E-03	7790	0.00	1.54E-04
801	-0.10	2.62E-09	3125	0.00	2.35E-06	5413	0.00	8.05E-07	7807	0.00	7.42E-03
811	0.10	1.03E-03	3127	0.00	3.70E-04	5417	0.00	7.32E-03	7814	0.00	6.26E-03
812	0.00	3.14E-05	3129	0.10	7.72E-08	5429	0.10	3.25E-07	7822	-0.10	2.18E-20
818	0.10	3.25E-04	3130	0.10	3.91E-03	5430	0.00	2.95E-03	7823	0.00	3.91E-03
826	-0.10	1.92E-03	3132	0.00	4.31E-04	5432	0.00	6.14E-09	7826	0.00	6.69E-03
827	0.00	1.13E-03	3139	0.00	5.28E-03	5443	0.00	2.39E-03	7854	-0.10	3.19E-04
841	0.00	7.43E-04	3140	0.00	9.51E-05	5446	0.00	5.05E-07	7856	0.00	2.40E-04
846	-0.10	6.72E-09	3141	0.00	1.19E-05	5448	0.10	8.15E-07	7858	0.00	3.47E-06
855	0.00	2.23E-04	3144	0.00	6.69E-03	5451	0.00	2.33E-03	7863	0.00	8.59E-06
858	0.00	5.13E-03	3145	0.00	6.48E-03	5453	-0.10	1.22E-05	7877	0.00	1.74E-04
860	0.00	3.02E-04	3149	0.00	4.92E-04	5455	0.00	5.42E-03	7879	0.00	1.92E-04
865	0.00	2.04E-05	3150	0.00	6.23E-03	5460	0.00	5.62E-03	7892	0.00	8.51E-03
868	0.00	2.35E-06	3154	0.00	2.36E-06	5461	0.00	8.07E-04	7897	0.10	1.20E-06
870	0.00	6.60E-07	3158	0.00	8.35E-03	5463	0.00	1.25E-06	7899	0.00	1.26E-04
874	0.10	5.37E-04	3160	0.00	2.53E-04	5470	0.00	3.65E-03	7900	0.00	9.80E-03
879	0.00	6.26E-05	3161	0.00	2.80E-04	5483	0.00	3.65E-03	7903	0.00	4.77E-03
887	0.00	1.42E-04	3167	0.00	3.44E-03	5489	0.00	5.02E-04	7921	0.00	6.29E-04
901	-0.10	3.43E-09	3176	0.00	3.02E-05	5491	0.00	9.74E-06	7929	0.00	1.21E-03
902	-0.10	4.12E-03	3178	0.00	6.22E-03	5505	0.00	6.62E-03	7932	0.00	2.11E-03
905	0.00	4.57E-03	3183	0.00	6.91E-05	5512	0.00	1.93E-03	7939	0.00	8.78E-03
910	-0.10	5.15E-05	3197	-0.10	5.20E-03	5522	0.00	3.35E-03	7941	0.00	7.82E-04
913	0.00	9.85E-06	3199	0.00	7.06E-03	5523	-0.10	2.41E-08	7947	0.00	4.27E-03
919	0.10	1.55E-05	3207	-0.10	5.26E-05	5526	0.00	9.03E-03	7948	0.00	8.96E-03
934	0.00	1.21E-04	3220	0.00	1.10E-03	5529	0.00	1.22E-05	7959	0.00	8.83E-05
936	0.00	8.02E-04	3245	0.00	5.86E-04	5535	0.00	1.69E-03	7972	0.00	7.11E-03
939	0.00	8.64E-04	3253	0.00	4.98E-03	5536	0.00	4.07E-03	7973	0.00	4.89E-03
949	0.00	1.20E-04	3257	0.00	1.14E-04	5538	0.00	6.70E-04	7979	0.10	9.46E-03
954	0.00	6.53E-06	3259	0.00	5.15E-03	5551	0.00	7.28E-03	8004	0.00	3.87E-03
960	0.00	8.72E-04	3263	0.00	3.39E-03	5554	0.00	9.29E-04	8009	0.00	3.67E-03

962	0.00	1.74E-04	3266	0.00	9.50E-03	5555	0.00	2.97E-03	8018	0.00	2.45E-03
964	0.10	1.40E-04	3270	0.00	6.15E-03	5557	0.00	4.64E-04	8020	0.00	9.89E-07
974	0.00	8.26E-05	3276	0.00	6.18E-03	5558	0.00	4.84E-04	8024	0.00	1.28E-07
984	0.00	4.95E-04	3277	0.00	8.97E-03	5563	0.00	3.21E-03	8025	-0.10	5.11E-08
989	0.00	8.68E-04	3278	0.00	2.44E-03	5572	0.00	2.18E-03	8037	0.00	5.59E-04
994	0.00	1.86E-07	3286	0.00	9.15E-05	5574	0.00	6.72E-03	8052	0.00	2.65E-05
998	0.00	4.04E-04	3291	0.10	1.06E-08	5578	0.00	4.17E-04	8062	0.00	1.56E-06
1004	0.00	1.81E-03	3317	0.10	6.68E-08	5579	0.00	4.75E-03	8063	-0.10	9.76E-07
1009	0.00	9.74E-03	3322	-0.10	3.34E-07	5588	0.00	2.22E-03	8067	0.00	1.64E-03
1015	0.00	4.25E-07	3333	0.00	8.15E-03	5589	0.00	8.42E-03	8071	0.00	1.63E-03
1021	0.00	2.03E-05	3341	-0.10	3.93E-06	5592	0.00	3.82E-04	8072	0.00	1.82E-03
1032	0.00	8.83E-03	3349	0.00	1.63E-03	5593	0.00	1.86E-04	8073	0.00	9.73E-03
1033	0.00	2.07E-05	3350	0.00	1.56E-03	5594	0.00	1.54E-03	8075	0.00	1.65E-05
1037	0.00	8.64E-03	3356	0.00	7.05E-03	5608	0.00	4.67E-04	8084	0.00	2.06E-06
1038	0.00	1.51E-05	3359	0.00	1.38E-03	5614	0.00	7.78E-04	8088	0.00	2.22E-03
1042	0.00	7.44E-08	3371	0.00	4.39E-05	5626	0.00	3.14E-03	8089	0.00	4.88E-03
1057	0.00	5.31E-03	3390	0.10	8.30E-04	5638	0.10	5.26E-05	8092	-0.10	2.66E-06
1058	0.00	1.68E-03	3391	0.00	4.84E-06	5647	0.00	2.82E-04	8097	0.00	1.29E-03
1061	-0.10	3.06E-06	3392	0.10	2.54E-05	5664	-0.10	1.57E-04	8100	0.00	3.87E-03
1065	0.00	3.18E-05	3395	0.10	8.32E-05	5668	0.00	2.59E-04	8110	0.00	2.03E-03
1078	0.00	4.40E-03	3396	0.00	8.99E-03	5670	0.00	1.32E-06	8117	0.00	9.39E-03
1080	-0.10	4.32E-04	3401	0.00	2.35E-03	5674	0.00	6.48E-06	8134	0.00	3.05E-05
1087	0.00	1.61E-04	3402	0.00	1.73E-03	5677	0.00	2.59E-06	8141	-0.10	6.23E-04
1089	0.00	1.94E-03	3407	0.00	1.61E-03	5680	0.00	5.22E-03	8142	-0.10	4.24E-11
200											
1109	-0.10	2.53E-03	3419	0.00	5.43E-04	5690	0.00	7.76E-05	8143	-0.10	4.22E-11
1110	0.00	8.08E-03	3420	0.00	3.73E-06	5701	0.10	1.68E-05	8145	0.00	1.38E-04
1125	0.10	4.79E-04	3423	0.00	8.65E-04	5703	0.00	1.37E-03	8146	0.00	3.07E-03
1140	0.00	5.94E-04	3431	0.10	3.57E-04	5708	-0.10	1.67E-04	8147	0.10	8.42E-10
1151	0.10	4.75E-08	3432	0.10	3.59E-04	5719	0.00	6.37E-03	8149	0.00	5.33E-08
1152	0.10	3.13E-05	3437	0.00	4.74E-03	5726	0.00	9.26E-03	8152	0.00	2.66E-04
1156	0.00	5.23E-03	3444	-0.10	3.73E-05	5727	0.10	4.26E-04	8160	0.00	4.38E-05
1158	0.00	7.97E-04	3482	0.00	5.01E-03	5741	0.00	3.60E-04	8163	0.00	3.33E-04
1161	0.00	8.11E-03	3485	0.00	2.55E-05	5742	0.00	4.76E-04	8166	0.10	5.02E-08
1165	0.00	4.82E-05	3491	0.00	8.55E-04	5744	0.00	8.92E-04	8168	0.00	1.04E-08
1170	0.00	2.26E-06	3492	0.10	5.66E-09	5756	0.10	7.08E-07	8185	0.10	5.33E-03
1171	0.00	5.24E-05	3498	0.00	9.53E-03	5757	0.00	1.71E-04	8192	0.00	1.23E-05
1182	0.00	3.71E-05	3511	0.00	4.39E-03	5759	0.00	2.08E-03	8195	0.00	7.62E-03
1183	0.00	5.14E-06	3514	0.00	5.71E-05	5760	0.00	6.04E-03	8203	0.10	4.43E-03
1185	0.00	1.17E-03	3519	0.00	9.72E-04	5763	0.00	3.77E-03	8206	0.00	2.29E-04
1186	0.00	1.06E-03	3521	0.10	1.48E-05	5785	-0.10	7.14E-06	8213	0.00	8.81E-04
1187	0.00	7.32E-05	3523	0.00	2.71E-04	5788	0.00	1.00E-03	8220	-0.10	4.22E-05

1188	0.00	9.24E-05	3530	0.00	4.63E-03	5800	0.00	1.49E-06	8232	0.00	7.46E-04
1201	0.00	5.17E-03	3531	0.00	1.09E-03	5811	0.00	3.55E-03	8233	0.00	5.62E-04
1210	0.00	2.35E-03	3533	-0.10	1.92E-08	5816	-0.10	2.22E-04	8235	0.00	2.35E-04
1214	0.10	8.42E-08	3538	0.00	2.71E-05	5818	-0.10	1.09E-03	8237	0.00	3.26E-03
1224	0.00	5.03E-03	3540	0.00	4.52E-04	5825	0.00	3.16E-05	8238	0.00	2.45E-03
1239	-0.10	4.22E-07	3544	0.00	2.98E-03	5828	0.00	1.76E-03	8239	0.00	3.94E-04
1244	0.00	5.42E-05	3560	0.00	2.97E-04	5832	0.00	3.73E-03	8243	-0.10	2.78E-11
1245	0.00	7.57E-03	3579	0.00	1.03E-03	5836	0.00	3.98E-03	8244	0.00	5.46E-06
1251	0.10	2.65E-09	3599	0.00	2.19E-05	5838	0.00	1.80E-05	8247	0.10	9.39E-08
1252	-0.10	4.41E-09	3613	0.00	4.53E-05	5840	0.00	5.56E-06	8256	0.00	5.01E-03
1255	0.00	2.78E-04	3615	0.00	2.99E-03	5850	0.00	2.13E-03	8259	0.00	7.67E-03
1256	0.10	1.34E-09	3617	0.10	1.91E-03	5852	0.00	4.36E-03	8261	0.10	9.05E-11
1264	0.00	2.18E-03	3619	0.00	5.56E-04	5856	0.00	8.75E-06	8270	0.00	6.25E-05
1266	0.00	7.10E-03	3631	0.00	4.87E-07	5868	0.00	6.06E-07	8276	0.00	2.47E-06
1272	0.00	2.01E-03	3649	0.00	4.53E-06	5875	0.00	5.18E-05	8280	0.00	2.20E-05
1276	-0.10	3.50E-07	3652	-0.10	3.10E-03	5876	0.00	1.05E-03	8282	0.00	2.04E-03
1277	0.00	6.10E-03	3654	0.00	6.36E-03	5877	0.00	1.73E-06	8283	0.00	3.33E-03
1283	0.00	8.23E-03	3668	0.00	6.29E-03	5884	0.00	2.98E-06	8290	-0.10	1.12E-10
1287	0.00	2.08E-06	3669	0.00	9.25E-07	5887	0.00	4.10E-04	8300	0.00	7.44E-03
1289	0.00	7.07E-03	3684	0.00	9.70E-04	5895	0.00	1.07E-03	8301	-0.10	6.19E-07
1294	0.00	1.99E-03	3685	0.10	4.22E-04	5897	0.00	2.71E-05	8315	0.00	5.93E-04
1301	0.00	3.90E-04	3686	0.00	5.35E-03	5900	-0.10	1.15E-05	8318	0.00	2.43E-06
1303	0.00	1.10E-05	3693	0.00	3.53E-03	5902	0.10	2.12E-08	8323	0.00	8.68E-03
1306	0.00	3.92E-04	3699	0.00	7.13E-04	5906	0.10	5.39E-08	8329	-0.10	1.39E-03
1310	0.10	7.39E-03	3700	0.00	2.14E-05	5910	-0.10	6.47E-07	8335	-0.10	1.56E-04
1317	0.00	2.03E-03	3704	0.00	2.62E-03	5923	0.10	1.64E-10	8336	0.00	2.45E-03
1319	0.00	9.45E-03	3708	0.00	2.60E-04	5925	0.00	2.60E-03	8338	0.00	8.80E-03
1320	-0.10	8.56E-08	3709	0.00	1.49E-05	5927	0.00	7.33E-03	8345	0.00	3.42E-03
1325	0.00	5.00E-03	3722	0.00	3.04E-07	5930	0.00	8.47E-04	8347	0.00	6.54E-07
1329	0.00	6.44E-03	3727	0.00	2.44E-03	5939	0.00	3.58E-03	8351	0.00	2.08E-03
1349	0.00	3.22E-03	3731	0.00	7.95E-07	5945	0.00	5.28E-03	8354	0.00	2.10E-03
1354	0.00	5.74E-04	3740	-0.10	6.71E-09	5948	0.00	4.40E-03	8368	0.00	1.09E-05
1356	0.00	8.01E-03	3745	0.10	4.58E-10	5971	0.00	8.47E-04	8369	0.00	8.45E-03
1360	0.00	4.37E-03	3749	0.00	6.71E-06	5972	0.10	7.68E-10	8375	0.00	1.14E-03
1364	0.00	3.97E-03	3750	0.00	5.91E-07	5973	0.00	4.97E-04	8384	0.00	1.34E-03
1366	0.00	1.14E-03	3752	0.00	1.85E-04	5975	0.00	2.62E-05	8386	0.00	6.53E-05
1370	-0.10	1.23E-05	3760	0.10	4.88E-10	6006	0.00	7.53E-03	8387	0.00	6.72E-06
1375	0.00	3.11E-05	3762	0.00	3.12E-03	6012	0.00	4.88E-03	8388	0.00	4.54E-04
1379	0.00	6.32E-03	3768	0.00	5.67E-03	6015	0.00	3.62E-04	8391	0.00	6.62E-04
1380	-0.10	4.93E-06	3770	0.00	1.79E-05	6016	0.00	4.77E-03	8395	0.00	2.18E-04
1383	0.00	3.80E-03	3771	-0.10	1.50E-07	6017	-0.10	2.02E-03	8398	0.00	1.27E-04
1384	0.00	3.12E-03	3772	0.00	5.40E-04	6024	0.00	4.69E-05	8413	0.00	3.69E-04

1388	0.00	3.88E-04	3775	0.00	4.01E-03	6030	0.00	5.00E-03	8423	0.00	1.50E-04
1390	0.00	8.47E-03	3778	0.00	6.36E-06	6031	0.00	8.18E-03	8425	0.00	8.53E-07
1393	0.00	7.69E-04	3780	0.00	2.17E-08	6033	0.00	3.90E-05	8426	0.00	3.96E-04
1394	0.00	3.96E-04	3788	0.00	6.08E-03	6037	0.00	6.29E-03	8427	0.00	1.21E-04
201											
1397	0.00	2.19E-03	3792	0.00	7.37E-03	6049	0.10	3.67E-03	8430	0.10	5.41E-06
1399	0.00	5.09E-03	3796	-0.10	1.46E-06	6067	0.00	2.38E-03	8431	0.00	1.47E-03
1401	0.00	3.70E-07	3797	-0.10	3.90E-07	6098	0.00	6.65E-03	8433	-0.10	1.97E-10
1410	0.00	2.30E-03	3808	0.00	4.12E-03	6102	0.00	3.86E-03	8441	0.10	9.58E-04
1411	0.00	4.64E-05	3819	0.00	4.01E-03	6105	0.10	1.22E-10	8451	0.00	2.47E-04
1412	0.00	1.12E-03	3839	0.00	4.78E-06	6112	0.00	6.91E-03	8454	0.00	1.28E-07
1429	0.00	1.53E-04	3852	0.00	7.67E-07	6118	0.00	7.36E-04	8466	0.00	1.13E-06
1439	0.00	1.23E-05	3856	0.00	3.91E-03	6124	0.00	8.95E-03	8471	0.00	7.10E-04
1443	0.00	1.29E-05	3859	0.00	1.12E-08	6130	0.00	2.20E-03	8480	0.00	4.95E-03
1444	0.00	1.60E-05	3865	0.00	7.53E-05	6134	0.00	2.93E-06	8481	-0.10	4.90E-03
1463	-0.10	2.27E-03	3876	0.00	8.35E-03	6136	0.00	8.10E-08	8485	0.00	6.73E-03
1464	0.00	2.79E-03	3878	-0.10	3.63E-11	6137	0.00	9.78E-08	8488	0.00	8.59E-03
1465	0.00	2.13E-03	3886	0.00	1.58E-06	6139	0.00	1.27E-03	8498	0.00	8.99E-04
1466	0.00	3.08E-03	3891	0.00	1.00E-03	6148	-0.10	2.23E-03	8508	0.00	1.52E-03
1475	-0.10	3.71E-15	3892	-0.10	1.57E-07	6150	0.00	5.31E-03	8512	-0.10	4.28E-03
1489	0.00	7.27E-03	3895	0.00	5.54E-04	6152	0.10	1.88E-09	8514	-0.10	3.27E-05
1498	0.00	1.62E-04	3902	0.00	1.16E-03	6176	0.00	2.02E-03	8554	-0.10	1.60E-10
1502	0.00	2.79E-03	3909	0.00	5.15E-03	6192	0.00	1.07E-03	8562	0.00	3.98E-03
1504	0.00	4.75E-03	3914	0.00	4.94E-04	6195	0.00	1.16E-06	8566	0.00	3.79E-04
1507	0.10	4.95E-04	3916	0.00	7.68E-05	6196	0.00	6.71E-03	8579	0.00	1.57E-03
1517	-0.10	2.73E-03	3917	0.00	1.68E-04	6204	0.00	3.47E-04	8587	-0.10	8.58E-04
1523	0.00	8.91E-03	3918	0.00	2.95E-04	6214	0.00	4.74E-05	8591	0.00	6.45E-05
1525	0.00	8.76E-03	3924	0.00	7.76E-10	6226	0.00	2.58E-03	8599	0.00	1.13E-03
1526	0.00	5.45E-03	3926	0.10	2.18E-08	6229	0.00	6.49E-05	8604	0.00	2.15E-05
1530	0.00	2.93E-06	3927	0.00	6.28E-03	6234	0.00	5.77E-03	8607	0.00	3.42E-04
1534	-0.10	1.06E-03	3930	-0.10	1.83E-04	6241	0.00	6.94E-04	8610	0.00	8.39E-06
1537	0.00	1.12E-05	3946	0.00	6.37E-03	6245	0.10	1.28E-10	8613	-0.10	2.55E-06
1541	0.00	7.85E-05	3961	0.00	8.27E-04	6248	0.00	2.49E-03	8614	0.00	1.36E-03
1544	0.10	5.50E-05	3968	-0.10	3.64E-03	6249	0.00	1.23E-06	8622	0.00	7.67E-03
1547	0.00	6.45E-03	3972	0.10	3.67E-07	6250	0.00	2.81E-06	8623	0.00	4.10E-03
1548	0.00	7.50E-03	3976	-0.10	7.29E-04	6257	0.00	4.30E-03	8624	0.00	6.15E-03
1558	0.10	1.41E-09	3980	-0.10	2.96E-05	6265	0.00	6.54E-04	8632	-0.10	4.73E-07
1561	0.00	1.10E-03	3981	-0.10	2.14E-05	6267	0.00	8.93E-03	8636	0.00	6.21E-03
1562	0.00	9.98E-03	3983	0.00	2.51E-04	6268	0.00	2.71E-05	8650	-0.10	3.79E-13
1566	0.00	5.87E-03	3987	0.00	2.09E-04	6269	0.00	6.87E-03	8656	0.00	4.85E-06
1573	0.10	9.06E-10	4009	0.00	5.66E-03	6272	0.00	4.20E-06	8683	0.00	5.33E-06
1574	0.00	2.80E-04	4017	0.00	5.68E-05	6284	0.00	8.35E-03	8685	0.00	2.81E-03

1580	0.00	1.18E-03	4025	0.00	2.62E-05	6285	0.00	6.40E-08	8689	0.00	8.25E-04
1586	0.10	2.98E-05	4030	0.00	1.44E-04	6286	-0.10	1.84E-05	8693	0.00	4.35E-03
1596	0.00	2.74E-03	4031	0.00	2.85E-03	6294	0.00	4.17E-06	8699	0.00	2.76E-08
1599	0.00	7.51E-03	4040	0.00	4.81E-04	6307	0.00	1.61E-05	8703	0.00	3.64E-04
1603	0.00	7.95E-03	4042	0.00	4.72E-03	6310	0.00	4.42E-07	8705	-0.10	3.10E-14
1604	0.00	2.95E-04	4043	0.00	2.51E-05	6321	0.00	1.00E-04	8710	0.00	1.42E-05
1605	-0.10	9.44E-04	4045	0.00	3.20E-04	6330	0.00	7.14E-05	8715	0.00	4.06E-07
1611	-0.10	2.15E-03	4049	0.00	5.77E-03	6337	0.00	2.07E-06	8721	0.00	8.20E-05
1612	0.10	3.71E-10	4051	0.00	4.30E-03	6339	0.00	7.00E-03	8724	0.10	1.41E-06
1613	0.00	2.72E-03	4052	0.00	8.68E-04	6345	0.00	3.92E-04	8726	-0.10	4.92E-07
1614	0.00	2.22E-03	4053	0.00	6.78E-06	6349	0.00	1.49E-04	8728	0.00	1.55E-05
1616	0.00	2.89E-04	4056	0.00	6.45E-03	6351	0.00	5.58E-03	8740	0.00	2.43E-03
1618	0.00	5.19E-07	4059	0.00	3.15E-05	6352	0.00	7.65E-03	8747	0.00	5.34E-04
1620	-0.10	5.96E-10	4060	0.00	1.27E-04	6358	0.00	5.40E-08	8749	0.00	6.94E-03
1621	0.00	3.13E-03	4061	0.00	8.89E-05	6361	0.00	2.72E-04	8756	0.00	2.20E-03
1622	0.00	2.55E-04	4070	0.00	6.85E-03	6366	-0.10	9.63E-07	8766	0.00	2.01E-03
1623	0.10	2.03E-09	4076	0.00	2.52E-04	6372	0.00	3.98E-03	8767	-0.10	5.87E-11
1625	0.00	1.69E-07	4077	0.00	6.14E-03	6373	0.00	7.00E-06	8770	0.00	9.86E-03
1637	0.00	6.05E-03	4084	0.10	4.37E-08	6376	0.00	1.68E-06	8774	0.00	2.11E-03
1640	0.00	4.71E-03	4097	-0.10	9.53E-10	6377	0.00	6.57E-03	8777	0.00	1.56E-03
1650	0.00	1.50E-03	4098	0.00	2.97E-07	6388	0.00	9.23E-04	8784	0.00	8.65E-03
1656	0.00	4.55E-04	4120	0.00	4.58E-05	6397	0.00	5.49E-03	8795	0.00	8.43E-05
1662	0.00	1.38E-03	4131	0.00	6.95E-03	6400	0.00	5.97E-04	8797	0.00	7.96E-03
1669	0.00	3.22E-03	4133	0.00	5.68E-04	6408	0.00	1.85E-06	8804	0.00	3.09E-04
1670	0.10	6.55E-04	4134	0.00	9.33E-03	6411	0.00	2.71E-06	8812	0.10	6.94E-04

202											
1676	0.00	9.96E-05	4150	0.00	9.86E-03	6412	0.00	2.54E-03	8822	0.00	5.08E-03
1677	0.00	3.12E-06	4153	0.00	2.42E-05	6415	0.00	2.85E-04	8825	0.00	6.02E-04
1684	0.00	4.17E-04	4155	0.10	2.13E-09	6419	0.00	1.95E-03	8833	0.00	1.80E-05
1690	0.00	3.17E-04	4159	0.00	1.07E-03	6420	0.00	3.61E-04	8840	0.00	7.99E-04
1691	0.00	1.16E-04	4162	0.00	1.11E-03	6433	0.00	9.91E-03	8843	0.00	1.30E-03
1699	-0.10	8.61E-05	4163	0.00	3.52E-03	6441	0.10	6.21E-03	8847	0.00	1.45E-05
1703	0.00	4.52E-04	4164	0.00	2.77E-07	6447	0.00	4.52E-03	8848	0.00	1.96E-06
1714	-0.10	1.30E-03	4165	0.00	6.64E-06	6455	0.00	7.65E-03	8849	0.00	4.63E-04
1715	0.00	4.07E-03	4166	0.00	2.51E-05	6461	0.00	6.80E-03	8851	-0.10	5.37E-08
1731	0.00	1.17E-06	4188	0.00	4.11E-03	6471	0.00	6.62E-03	8852	0.10	1.23E-04
1740	0.00	1.45E-04	4196	0.00	1.39E-04	6477	0.00	7.28E-03	8857	0.00	1.59E-03
1741	0.00	3.89E-04	4197	0.00	3.04E-03	6479	0.00	7.66E-05	8863	0.00	4.93E-04
1743	-0.10	1.04E-05	4198	0.00	5.17E-05	6480	0.00	9.61E-05	8870	0.00	8.96E-03
1751	0.00	6.82E-03	4202	0.00	5.44E-03	6493	-0.10	4.72E-06	8874	0.00	6.61E-03
1752	0.10	2.67E-07	4210	0.00	6.01E-05	6498	0.00	2.35E-05	8875	0.00	5.11E-05
1764	0.00	2.18E-05	4211	0.00	5.81E-04	6504	0.00	2.20E-03	8888	0.10	1.63E-09
1780	0.00	1.35E-03	4214	0.00	3.25E-03	6509	0.00	1.22E-04	8898	0.00	2.88E-06
1781	0.00	4.75E-05	4231	0.00	7.23E-03	6515	0.10	4.00E-04	8899	0.00	3.78E-04
1782	0.00	4.41E-05	4232	0.00	1.42E-04	6528	0.00	5.87E-03	8907	-0.10	2.20E-03
1790	0.00	2.46E-07	4234	0.00	7.17E-04	6539	0.00	4.48E-03	8908	0.00	1.34E-05
1803	-0.10	2.07E-06	4235	0.10	3.76E-04	6540	0.00	6.79E-06	8911	0.00	4.90E-03
1809	0.00	6.66E-03	4239	0.00	9.84E-03	6542	0.00	4.99E-03	8919	0.00	2.31E-04
1814	0.00	7.63E-03	4244	-0.10	7.11E-09	6555	0.10	2.60E-09	8921	0.00	6.45E-04
1827	0.00	8.85E-08	4246	0.00	1.28E-07	6563	0.00	1.04E-06	8928	0.00	1.90E-04
1829	-0.10	1.36E-19	4254	0.00	2.53E-03	6565	0.00	9.14E-05	8933	0.00	2.30E-07
1837	0.00	4.76E-03	4259	0.00	1.09E-05	6568	0.00	6.10E-10	8954	0.00	5.29E-03
1843	0.00	1.86E-03	4261	0.00	9.32E-05	6572	0.00	2.30E-03	8966	0.00	7.32E-03
1862	0.00	6.95E-03	4264	0.00	4.05E-04	6573	-0.10	3.50E-03	8981	0.00	1.64E-05
1865	0.00	1.84E-05	4272	0.00	1.95E-03	6581	-0.10	1.74E-06	8985	-0.10	2.01E-04
1869	0.00	2.80E-03	4276	-0.10	2.30E-06	6584	0.00	1.53E-04	8997	0.00	5.26E-05
1876	0.00	6.15E-04	4279	0.00	4.51E-03	6587	0.00	7.87E-05	9003	0.00	5.38E-03
1879	-0.10	2.52E-08	4285	0.00	1.80E-04	6601	0.00	1.76E-04	9011	0.00	1.01E-07
1881	0.00	2.33E-03	4294	0.00	1.48E-04	6606	0.10	1.83E-03	9026	-0.10	1.58E-04
1882	-0.10	8.65E-05	4299	0.00	1.12E-05	6607	0.00	6.21E-03	9034	0.00	1.46E-03
1884	0.00	3.60E-04	4301	0.00	5.34E-03	6626	0.00	1.56E-04	9040	0.00	9.15E-03
1887	0.00	3.09E-03	4306	0.00	3.73E-05	6629	0.00	2.57E-03	9046	0.00	2.10E-03
1889	0.00	9.85E-03	4308	0.00	2.55E-03	6630	0.00	8.53E-04	9050	0.00	1.86E-03
1890	0.10	3.97E-05	4309	0.00	2.41E-03	6638	0.00	6.07E-04	9052	0.00	9.24E-07
1892	0.00	8.48E-04	4319	0.00	3.01E-04	6643	0.00	5.92E-03	9057	0.00	3.75E-03
1896	0.00	9.12E-03	4322	0.00	7.06E-04	6647	0.00	1.98E-03	9063	0.00	8.42E-04
1904	0.00	2.80E-03	4333	0.00	6.27E-04	6654	-0.10	4.95E-03	9064	0.00	8.80E-03

1905	-0.10	5.77E-05	4334	0.00	3.28E-03	6659	0.00	6.68E-07	9068	0.10	2.90E-07
1906	-0.10	2.64E-06	4335	0.00	2.62E-03	6671	0.00	2.15E-06	9072	0.00	7.13E-05
1907	0.00	1.02E-03	4337	0.10	5.75E-11	6676	0.00	1.76E-03	9082	0.00	5.95E-05
1910	0.10	2.56E-04	4341	0.00	7.26E-05	6685	-0.10	2.95E-06	9084	0.00	2.11E-04
1926	0.00	1.21E-03	4354	0.00	8.80E-03	6697	0.00	6.23E-05	9086	0.00	4.68E-03
1932	-0.10	2.92E-05	4359	0.10	2.82E-04	6700	0.10	3.81E-06	9089	0.00	3.30E-04
1933	0.10	2.17E-08	4370	0.00	8.71E-04	6704	0.00	3.47E-04	9091	0.00	2.98E-03
1939	0.00	1.19E-06	4371	0.00	9.89E-03	6722	0.00	6.93E-03	9093	0.00	6.06E-04
1944	0.00	2.04E-04	4378	0.00	6.21E-03	6727	0.10	2.41E-06	9094	0.00	1.07E-03
1948	0.00	1.63E-03	4382	0.00	1.85E-03	6736	-0.10	3.57E-04	9095	0.00	2.10E-03
1971	0.00	1.28E-04	4386	0.00	9.59E-04	6739	0.00	8.41E-03	9099	0.00	3.87E-04
1980	0.00	6.97E-03	4396	0.00	7.07E-03	6741	0.10	8.05E-06	9106	0.10	4.81E-03
1981	0.00	6.42E-04	4398	0.00	1.02E-04	6742	0.00	6.05E-03	9113	0.00	1.05E-03
1982	0.00	1.50E-04	4405	0.00	4.89E-04	6743	-0.10	1.35E-04	9115	0.00	4.82E-03
1988	0.00	3.37E-04	4425	0.10	5.17E-10	6749	0.00	5.19E-03	9123	0.00	4.22E-05
1993	0.00	2.54E-03	4426	0.00	5.59E-03	6751	-0.10	1.56E-07	9125	0.00	5.87E-03
1996	0.10	7.71E-06	4445	0.00	2.63E-06	6762	0.00	1.02E-03	9127	-0.10	3.58E-08
2003	0.00	5.47E-03	4446	0.00	2.89E-03	6763	0.00	4.91E-03	9129	0.00	2.12E-06
2010	0.10	5.54E-09	4453	0.00	4.60E-03	6766	0.00	7.06E-04	9140	0.00	2.65E-05
2013	0.00	2.56E-04	4463	0.00	5.98E-04	6785	0.10	1.73E-05	9145	0.00	8.46E-03
2017	0.00	7.69E-05	4467	0.00	4.86E-05	6786	0.10	9.14E-06	9155	0.00	1.25E-03
2026	0.00	8.94E-09	4470	0.00	3.30E-04	6790	0.00	7.27E-03	9159	0.00	1.24E-03
203											
2037	0.00	5.60E-06	4474	0.00	7.43E-03	6805	0.00	4.11E-05	9166	0.00	7.66E-03
2044	0.00	7.40E-03	4478	0.00	4.05E-05	6806	0.00	3.53E-03	9183	0.00	3.25E-04
2045	0.00	3.71E-06	4480	0.00	3.14E-03	6812	0.10	3.27E-06	9188	0.00	9.03E-03
2048	0.00	6.98E-03	4482	0.00	9.52E-03	6813	0.00	8.90E-03	9190	0.00	1.51E-05
2049	0.00	3.06E-08	4485	0.00	3.22E-03	6819	-0.10	1.61E-05	9192	0.00	3.23E-06
2053	0.00	1.25E-03	4486	0.10	7.44E-03	6830	0.00	9.15E-03	9193	-0.10	2.41E-03
2056	0.00	5.73E-03	4487	0.00	8.53E-05	6835	0.00	8.17E-03	9194	0.00	4.56E-04
2059	0.00	2.37E-03	4493	0.00	4.21E-03	6843	0.00	4.21E-05	9207	0.00	5.79E-03
2068	0.00	5.15E-03	4499	-0.10	1.82E-08	6845	-0.10	1.10E-04	9210	0.00	9.71E-03
2078	0.00	6.82E-03	4503	0.00	1.07E-03	6866	0.10	5.53E-04	9221	0.10	8.27E-06
2088	0.00	2.51E-04	4505	0.00	1.88E-03	6867	0.00	4.23E-04	9224	0.00	2.06E-05
2091	0.00	5.35E-03	4509	0.00	5.70E-03	6869	0.00	4.36E-04	9229	0.00	4.87E-03
2093	0.00	1.08E-03	4510	0.00	5.38E-03	6882	0.00	6.63E-03	9230	0.00	2.15E-03
2095	0.00	4.41E-03	4512	0.00	5.34E-05	6894	0.10	2.06E-06	9236	0.00	2.71E-06
2101	-0.10	3.44E-07	4524	0.10	2.15E-07	6898	0.00	5.71E-04	9237	0.00	4.49E-05
2107	0.10	4.36E-06	4525	-0.10	1.52E-07	6900	0.00	5.14E-03	9248	0.00	3.51E-04
2110	0.00	1.74E-07	4530	0.10	4.36E-04	6906	0.00	1.10E-05	9260	0.00	4.97E-03
2118	0.00	1.78E-04	4532	-0.10	5.05E-04	6907	0.00	6.95E-06	9267	0.00	5.11E-06
2133	0.00	5.40E-05	4536	0.00	8.49E-03	6933	-0.10	7.70E-04	9273	0.00	5.88E-04

2136	0.00	7.22E-04	4537	-0.10	5.90E-09	6934	-0.10	7.39E-04	9278	0.00	1.17E-04
2155	0.00	1.74E-03	4539	-0.10	2.43E-03	6945	0.00	2.73E-03	9284	0.00	1.19E-03
2156	0.00	2.80E-03	4542	0.00	1.39E-08	6954	0.00	4.35E-05	9288	0.00	4.09E-06
2157	0.00	7.17E-03	4543	0.00	1.56E-03	6962	0.00	3.21E-04	9300	0.00	3.46E-05
2163	-0.10	5.18E-05	4545	0.00	7.61E-04	6963	0.00	7.79E-03	9304	0.00	1.24E-04
2164	0.00	5.65E-03	4550	0.10	3.44E-08	6964	0.00	2.77E-03	9307	0.00	2.33E-03
2165	0.00	5.50E-03	4555	-0.10	4.93E-05	6965	0.00	2.68E-03	9316	0.00	7.82E-03
2172	0.00	1.31E-05	4558	0.00	9.99E-03	6980	0.00	4.67E-04	9329	0.00	9.01E-08
2176	0.00	1.77E-03	4562	0.00	3.83E-04	6989	-0.10	2.16E-06	9334	0.00	7.36E-04
2178	0.00	4.35E-03	4576	0.00	9.70E-03	6996	0.10	2.80E-12	9341	0.00	2.55E-03
2187	0.00	4.46E-04	4578	0.00	3.43E-06	6999	0.00	2.73E-06	9342	0.00	1.78E-04
14579	-0.01	5.00E-02	13924	0.07	5.00E-02	12866	-0.05	5.00E-02	15222	0.06	5.00E-02
14740	0.15	5.00E-02	14140	0.10	5.00E-02	12870	0.04	5.00E-02	13895	-0.02	5.00E-02
14745	-0.02	5.00E-02	14141	0.14	5.00E-02	13271	-0.01	5.00E-02	12374	0.06	5.00E-02
14779	0.03	5.00E-02	14393	-0.01	5.00E-02	13453	-0.06	5.00E-02	12567	-0.13	5.00E-02
15041	0.13	5.00E-02	14438	0.02	5.00E-02	13822	0.01	5.00E-02	12659	-0.04	5.00E-02
12186	0.00	1.37E-04	12446	0.00	2.10E-03	12889	0.10	2.99E-16	12776	0.03	5.00E-02
12187	0.00	4.15E-03	12462	0.00	2.27E-05	12893	-0.10	7.88E-09	13403	0.00	3.50E-06
12190	0.00	4.50E-07	12463	0.00	6.88E-04	12894	0.00	6.65E-03	13404	0.00	8.12E-03
12194	0.00	3.69E-03	12465	-0.10	2.81E-04	12902	0.00	1.28E-03	13412	0.00	4.20E-04
12230	0.10	3.56E-05	12473	0.00	9.35E-03	12907	0.00	2.94E-03	13420	0.10	4.34E-08
12232	0.00	8.65E-04	12477	0.00	5.97E-04	12913	0.00	2.35E-03	13434	0.00	3.28E-04
12235	0.00	1.68E-03	12482	0.10	1.54E-04	12914	0.00	4.70E-04	13448	0.00	4.66E-03
12241	-0.10	1.08E-06	12490	0.10	7.65E-03	12927	0.00	5.46E-04	13455	0.00	2.17E-04
12245	0.00	1.86E-05	12498	0.10	9.13E-15	12929	0.00	3.63E-05	13457	0.00	7.62E-04
12249	0.00	1.37E-04	12499	0.10	9.78E-09	12933	0.00	4.82E-03	13461	0.00	3.11E-03
12260	-0.10	9.00E-04	12500	0.00	2.31E-03	12938	0.00	6.51E-03	13476	0.00	1.69E-03
12283	0.00	7.65E-04	12506	0.00	2.11E-03	12952	0.00	2.75E-04	13521	0.00	7.50E-08
12286	-0.10	3.48E-05	12509	0.00	9.48E-04	12962	0.10	2.96E-06	13567	0.00	6.90E-03
12287	-0.10	3.83E-07	12510	0.00	5.40E-05	12963	0.00	2.69E-07	13578	0.00	3.17E-05
12288	0.00	3.01E-06	12521	0.00	3.66E-04	12967	0.00	1.80E-04	13580	0.10	3.91E-08
12289	0.10	1.24E-04	12524	0.00	9.10E-04	12975	0.00	8.36E-05	13583	-0.10	1.27E-07
12292	0.10	3.62E-10	12536	0.00	1.59E-04	12977	0.00	5.27E-04	13594	0.00	6.24E-05
12294	0.00	4.29E-03	12544	0.10	4.32E-07	12993	0.00	4.60E-04	13608	0.00	3.27E-04
12300	-0.10	5.72E-03	12563	0.00	1.93E-05	12995	0.00	7.78E-03	13614	0.00	1.31E-05
12304	0.00	7.80E-03	12572	0.00	7.78E-03	12996	0.00	2.67E-03	13622	0.00	1.72E-03
12310	0.10	2.57E-03	12576	0.00	4.64E-03	13003	0.00	7.38E-04	13626	-0.10	2.24E-03
12327	0.00	8.15E-03	12577	0.00	2.41E-03	13011	0.00	2.88E-03	13629	0.10	2.70E-11
12336	0.00	1.01E-06	12584	0.00	2.24E-03	13040	0.00	5.90E-03	13632	0.00	7.39E-04
12341	-0.10	6.74E-05	12590	-0.10	2.82E-04	13043	0.00	4.82E-04	13647	-0.10	8.12E-03
12343	0.00	6.91E-03	12598	0.00	3.38E-04	13048	0.00	8.34E-03	13654	0.00	7.08E-03
12344	0.00	1.31E-05	12609	0.00	2.06E-03	13054	0.00	9.80E-06	13676	0.10	2.55E-03

12358	0.00	1.00E-04	12620	0.00	3.08E-03	13055	0.00	8.74E-03	13687	0.00	5.02E-05
12359	0.00	7.22E-03	12623	0.00	1.72E-06	13059	0.00	7.05E-05	13706	-0.10	6.01E-05
204											
12365	0.00	1.98E-03	12626	0.00	7.96E-03	13060	0.00	4.82E-06	13707	-0.10	2.31E-05
12368	0.00	4.95E-08	12639	0.00	3.64E-03	13065	0.00	1.29E-03	13710	0.00	7.67E-05
12391	0.00	7.90E-03	12656	0.00	2.80E-08	13075	0.00	4.41E-04	13716	0.00	5.81E-03
12393	0.00	3.62E-07	12657	0.00	4.41E-03	13103	0.00	2.66E-07	13720	0.00	6.46E-03
12401	0.00	9.22E-03	12673	0.00	1.20E-06	13111	0.00	2.78E-05	13734	0.00	7.55E-03
12409	0.00	4.59E-03	12675	0.00	1.53E-03	13113	0.00	1.01E-03	13738	-0.10	1.68E-05
12412	0.00	5.70E-03	12677	0.00	2.80E-04	13124	0.00	7.66E-05	13755	0.00	5.07E-05
14688	0.00	1.60E-04	12688	0.00	1.14E-03	13126	0.00	8.11E-03	13766	0.00	4.33E-04
14695	0.00	3.05E-03	12691	0.00	2.74E-04	13128	0.00	1.63E-03	13772	0.00	6.80E-04
14699	0.00	2.52E-03	12693	0.00	7.61E-03	13139	0.10	1.78E-07	13795	0.00	9.01E-06
14708	0.10	2.62E-07	12706	0.00	3.62E-04	13140	0.00	1.53E-07	13798	0.00	1.18E-04
14717	0.00	9.30E-04	12710	0.00	9.67E-03	13143	0.00	3.20E-03	13814	0.00	1.53E-04
14722	0.00	4.63E-05	12716	0.00	3.66E-07	13151	0.00	5.64E-03	13836	0.10	2.31E-04
14724	0.00	1.74E-03	12725	0.00	3.24E-05	13153	0.00	7.09E-05	13838	0.00	4.68E-07
14727	0.00	1.86E-05	12732	0.00	2.23E-08	13158	0.00	1.62E-03	13840	0.00	8.32E-04
14736	-0.10	5.59E-05	12743	0.00	1.27E-03	13161	0.00	3.83E-03	13861	0.00	1.90E-05
14783	0.10	6.33E-14	12746	0.00	4.08E-03	13191	-0.10	7.49E-05	13882	0.10	1.00E-03
14788	0.00	5.72E-03	12747	0.00	1.02E-04	13201	0.10	4.51E-03	13899	0.00	1.58E-04
14790	0.00	4.39E-03	12786	0.00	2.25E-04	13204	0.00	5.38E-03	13913	0.00	2.21E-04
14800	0.00	4.17E-06	12795	0.00	1.60E-06	13210	0.10	1.38E-09	13914	-0.10	1.81E-06
14817	0.00	2.63E-03	12799	0.00	5.71E-04	13211	-0.10	6.09E-06	13920	0.00	2.35E-03
14820	0.00	5.64E-06	12804	-0.10	2.11E-03	13212	0.10	7.83E-12	13929	0.00	2.79E-03
14828	0.00	6.22E-03	12807	0.00	3.25E-04	13213	0.00	3.05E-03	13930	0.00	2.39E-04
14839	0.00	1.23E-06	12816	0.10	1.98E-04	13230	0.00	3.80E-05	13935	0.00	6.32E-03
14841	0.00	4.54E-03	12826	0.00	4.57E-03	13243	0.00	1.45E-04	13937	0.00	4.72E-03
14866	0.00	9.02E-03	12837	0.00	6.23E-03	13300	0.00	7.76E-04	13960	-0.10	2.32E-04
14891	0.00	3.61E-03	12847	-0.10	1.60E-04	13303	0.00	2.89E-03	13984	0.00	9.91E-05
14893	0.00	5.20E-04	12849	0.00	1.38E-03	13313	0.00	2.73E-03	13985	0.00	2.49E-05
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-0.12	-0.12	-0.12	
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0.08	0.08	0.08	0.08
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0.16	0.16	0.16	0.16
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0.08	0.08	0.08	0.08

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0.06	0.06	0.06	0.06

-0.15	-0.15	-0.15	-0.15
-0.08	-0.08	-0.08	-0.08
-0.11	-0.11	-0.11	-0.11
0.16	0.16	0.16	0.16
-0.09	-0.09	-0.09	-0.09
0.16	0.16	0.16	0.16
-0.24	-0.24	-0.24	-0.24
0.06	0.06	0.06	0.06
0.14	0.14	0.14	0.14
-0.11	-0.11	-0.11	-0.11
-0.07	-0.07	-0.07	-0.07
-0.07	-0.07	-0.07	-0.07
-0.13	-0.13	-0.13	-0.13
0.12	0.12	0.12	0.12
-0.14	-0.14	-0.14	-0.14
-0.10	-0.10	-0.10	-0.10
0.17	0.17	0.17	0.17
-0.13	-0.13	-0.13	-0.13
-0.10	-0.10	-0.10	-0.10
0.09	0.09	0.09	0.09
-0.22	-0.22	-0.22	-0.22
-0.24	-0.24	-0.24	-0.24
-0.20	-0.20	-0.20	-0.20
0.15	0.15	0.15	0.15
-0.11	-0.11	-0.11	-0.11
-0.18	-0.18	-0.18	-0.18
0.09	0.09	0.09	0.09
0.18	0.18	0.18	0.18
-0.17	-0.17	-0.17	-0.17
-0.13	-0.13	-0.13	-0.13
-0.11	-0.11	-0.11	-0.11
0.10	0.10	0.10	0.10
0.10	0.10	0.10	0.10
0.11	0.11	0.11	0.11
0.12	0.12	0.12	0.12
0.12	0.12	0.12	0.12
-0.18	-0.18	-0.18	-0.18
-0.09	-0.09	-0.09	-0.09
-0.08	-0.08	-0.08	-0.08
-0.10	-0.10	-0.10	-0.10
0.09	0.09	0.09	0.09
0.23	0.23	0.23	0.23

0.15	0.15	0.15	0.15
-0.08	-0.08	-0.08	-0.08
0.08	0.08	0.08	0.08
0.15	0.15	0.15	0.15
0.12	0.12	0.12	0.12
-0.16	-0.16	-0.16	-0.16
-0.15	-0.15	-0.15	-0.15
0.09	0.09	0.09	0.09
-0.22	-0.22	-0.22	-0.22
0.14	0.14	0.14	0.14
-0.16	-0.16	-0.16	-0.16
-0.13	-0.13	-0.13	-0.13
0.15	0.15	0.15	0.15
0.11	0.11	0.11	0.11
-0.17	-0.17	-0.17	-0.17
-0.13	-0.13	-0.13	-0.13
0.07	0.07	0.07	0.07
0.18	0.18	0.18	0.18
-0.11	-0.11	-0.11	-0.11
0.14	0.14	0.14	0.14
-0.13	-0.13	-0.13	-0.13
-0.11	-0.11	-0.11	-0.11
-0.07	-0.07	-0.07	-0.07
0.19	0.19	0.19	0.19
-0.14	-0.14	-0.14	-0.14
-0.09	-0.09	-0.09	-0.09
-0.11	-0.11	-0.11	-0.11
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-0.08	-0.08	-0.08	-0.08
-0.11	-0.11	-0.11	-0.11
0.13	0.13	0.13	0.13
0.07	0.07	0.07	0.07
-0.14	-0.14	-0.14	-0.14
-0.10	-0.10	-0.10	-0.10
0.10	0.10	0.10	0.10
0.11	0.11	0.11	0.11
0.12	0.12	0.12	0.12
-0.13	-0.13	-0.13	-0.13
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-0.12	-0.12	-0.12	-0.12
-0.09	-0.09	-0.09	-0.09

-0.10	-0.10	-0.10	-0.10
-0.07	-0.07	-0.07	-0.07
-0.10	-0.10	-0.10	-0.10
0.13	0.13	0.13	0.13
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0.08	0.08	0.08	0.08
-0.14	-0.14	-0.14	-0.14
0.19	0.19	0.19	0.19
0.10	0.10	0.10	0.10
-0.32	-0.32	-0.32	-0.32
0.13	0.13	0.13	0.13
-0.13	-0.13	-0.13	-0.13
0.05	0.05	0.05	0.05
0.13	0.13	0.13	0.13
0.08	0.08	0.08	0.08
-0.13	-0.13	-0.13	-0.13
-0.21	-0.21	-0.21	-0.21
0.09	0.09	0.09	0.09
0.16	0.16	0.16	0.16
-0.13	-0.13	-0.13	-0.13
0.09	0.09	0.09	0.09
-0.17	-0.17	-0.17	-0.17
0.13	0.13	0.13	0.13
-0.16	-0.16	-0.16	-0.16
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-0.08	-0.08	-0.08	-0.08
-0.22	-0.22	-0.22	-0.22
-0.08	-0.08	-0.08	-0.08
-0.27	-0.27	-0.27	-0.27
-0.09	-0.09	-0.09	-0.09
0.09	0.09	0.09	0.09
-0.15	-0.15	-0.15	-0.15
0.10	0.10	0.10	0.10
-0.08	-0.08	-0.08	-0.08
-0.14	-0.14	-0.14	-0.14
0.11	0.11	0.11	0.11
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-0.17	-0.17	-0.17	-0.17
-0.14	-0.14	-0.14	-0.14

0.06	0.06	0.06	0.06
-0.19	-0.19	-0.19	-0.19
0.11	0.11	0.11	0.11
-0.09	-0.09	-0.09	-0.09
-0.15	-0.15	-0.15	-0.15
-0.10	-0.10	-0.10	-0.10
-0.22	-0.22	-0.22	-0.22
-0.09	-0.09	-0.09	-0.09
-0.20	-0.20	-0.20	-0.20
-0.18	-0.18	-0.18	-0.18
-0.22	-0.22	-0.22	-0.22
-0.08	-0.08	-0.08	-0.08
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0.12	0.12	0.12	0.12
-0.09	-0.09	-0.09	-0.09
-0.11	-0.11	-0.11	-0.11
-0.15	-0.15	-0.15	-0.15
-0.16	-0.16	-0.16	-0.16
0.17	0.17	0.17	0.17
-0.13	-0.13	-0.13	-0.13
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-0.13	-0.13	-0.13	-0.13
0.19	0.19	0.19	0.19
-0.20	-0.20	-0.20	-0.20
0.14	0.14	0.14	0.14
0.09	0.09	0.09	0.09
0.08	0.08	0.08	0.08
-0.11	-0.11	-0.11	-0.11
0.10	0.10	0.10	0.10
-0.19	-0.19	-0.19	-0.19
-0.07	-0.07	-0.07	-0.07
0.10	0.10	0.10	0.10
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-0.11	-0.11	-0.11	-0.11
0.12	0.12	0.12	0.12
-0.12	-0.12	-0.12	-0.12
0.10	0.10	0.10	0.10
-0.17	-0.17	-0.17	-0.17

-0.17	-0.17	-0.17	-0.17
0.18	0.18	0.18	0.18
-0.09	-0.09	-0.09	-0.09
0.15	0.15	0.15	0.15
0.16	0.16	0.16	0.16
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0.09	0.09	0.09	0.09
-0.17	-0.17	-0.17	-0.17
-0.17	-0.17	-0.17	-0.17
-0.08	-0.08	-0.08	-0.08
0.20	0.20	0.20	0.20
0.15	0.15	0.15	0.15
-0.10	-0.10	-0.10	-0.10
-0.11	-0.11	-0.11	-0.11
-0.09	-0.09	-0.09	-0.09
-0.17	-0.17	-0.17	-0.17
0.10	0.10	0.10	0.10
-0.17	-0.17	-0.17	-0.17
-0.13	-0.13	-0.13	-0.13
-0.13	-0.13	-0.13	-0.13
-0.12	-0.12	-0.12	-0.12
0.12	0.12	0.12	0.12
0.11	0.11	0.11	0.11
0.07	0.07	0.07	0.07
-0.09	-0.09	-0.09	-0.09
-0.10	-0.10	-0.10	-0.10
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-0.11	-0.11	-0.11	-0.11
-0.14	-0.14	-0.14	-0.14
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-0.12	-0.12	-0.12	-0.12
-0.12	-0.12	-0.12	-0.12
0.18	0.18	0.18	0.18
-0.08	-0.08	-0.08	-0.08
-0.17	-0.17	-0.17	-0.17
0.14	0.14	0.14	0.14
0.10	0.10	0.10	0.10
0.09	0.09	0.09	0.09
0.20	0.20	0.20	0.20

0.12	0.12	0.12	0.12
0.15	0.15	0.15	0.15
0.24	0.24	0.24	0.24
0.12	0.12	0.12	0.12
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0.17	0.17	0.17	0.17
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0.09	0.09	0.09	0.09
-0.09	-0.09	-0.09	-0.09
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-0.08	-0.08	-0.08	-0.08
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0.15	0.15	0.15	0.15
0.11	0.11	0.11	0.11
0.20	0.20	0.20	0.20
-0.22	-0.22	-0.22	-0.22
0.14	0.14	0.14	0.14
0.10	0.10	0.10	0.10
0.15	0.15	0.15	0.15
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-0.12	-0.12	-0.12	-0.12
-0.08	-0.08	-0.08	-0.08
0.15	0.15	0.15	0.15
0.10	0.10	0.10	0.10
-0.13	-0.13	-0.13	-0.13
0.12	0.12	0.12	0.12
-0.10	-0.10	-0.10	-0.10
0.09	0.09	0.09	0.09
0.13	0.13	0.13	0.13
-0.07	-0.07	-0.07	-0.07
0.12	0.12	0.12	0.12
-0.08	-0.08	-0.08	-0.08
0.15	0.15	0.15	0.15
-0.16	-0.16	-0.16	-0.16

-0.10	-0.10	-0.10	-0.10
-0.12	-0.12	-0.12	-0.12
0.24	0.24	0.24	0.24
-0.16	-0.16	-0.16	-0.16
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0.08	0.08	0.08	0.08
-0.16	-0.16	-0.16	-0.16
-0.15	-0.15	-0.15	-0.15
0.09	0.09	0.09	0.09
-0.15	-0.15	-0.15	-0.15
-0.09	-0.09	-0.09	-0.09
-0.18	-0.18	-0.18	-0.18
-0.20	-0.20	-0.20	-0.20
0.12	0.12	0.12	0.12
0.14	0.14	0.14	0.14
0.10	0.10	0.10	0.10
-0.12	-0.12	-0.12	-0.12
0.11	0.11	0.11	0.11
0.09	0.09	0.09	0.09
-0.15	-0.15	-0.15	-0.15
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0.14	0.14	0.14	0.14
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-0.22	-0.22	-0.22	-0.22
0.07	0.07	0.07	0.07
-0.09	-0.09	-0.09	-0.09
-0.10	-0.10	-0.10	-0.10
-0.13	-0.13	-0.13	-0.13
0.20	0.20	0.20	0.20
0.13	0.13	0.13	0.13
0.09	0.09	0.09	0.09
0.16	0.16	0.16	0.16
0.12	0.12	0.12	0.12
0.14	0.14	0.14	0.14

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0.14	0.14	0.14	0.14
0.20	0.20	0.20	0.20
0.08	0.08	0.08	0.08
0.08	0.08	0.08	0.08
0.10	0.10	0.10	0.10
0.14	0.14	0.14	0.14
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0.08	0.08	0.08	0.08
-0.15	-0.15	-0.15	-0.15
-0.10	-0.10	-0.10	-0.10
0.07	0.07	0.07	0.07
0.15	0.15	0.15	0.15
-0.08	-0.08	-0.08	-0.08
0.08	0.08	0.08	0.08
-0.19	-0.19	-0.19	-0.19
0.09	0.09	0.09	0.09
0.07	0.07	0.07	0.07
0.12	0.12	0.12	0.12
0.16	0.16	0.16	0.16
0.11	0.11	0.11	0.11
0.10	0.10	0.10	0.10
-0.16	-0.16	-0.16	-0.16
0.08	0.08	0.08	0.08
0.17	0.17	0.17	0.17
0.07	0.07	0.07	0.07
-0.11	-0.11	-0.11	-0.11
0.09	0.09	0.09	0.09
-0.11	-0.11	-0.11	-0.11
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0.11	0.11	0.11	0.11
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0.10	0.10	0.10	0.10
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0.11	0.11	0.11	0.11
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-0.29	-0.29	-0.29	-0.29
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0.17	0.17	0.17	0.17
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0.07	0.07	0.07	0.07
-0.13	-0.13	-0.13	-0.13
0.13	0.13	0.13	0.13
0.12	0.12	0.12	0.12
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0.11	0.11	0.11	0.11
0.12	0.12	0.12	0.12
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0.12	0.12	0.12	0.12
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0.10	0.10	0.10	0.10
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0.10	0.10	0.10	0.10
0.09	0.09	0.09	0.09
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0.09	0.09	0.09	0.09
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-0.16	-0.16	-0.16	-0.16
-0.09	-0.09	-0.09	-0.09

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0.09	0.09	0.09	0.09
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0.10	0.10	0.10	0.10
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0.10	0.10	0.10	0.10
0.09	0.09	0.09	0.09
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0.13	0.13	0.13	0.13
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0.10	0.10	0.10	0.10
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-0.11	-0.11	-0.11	-0.11
-0.08	-0.08	-0.08	-0.08
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0.09	0.09	0.09	0.09
0.16	0.16	0.16	0.16
-0.22	-0.22	-0.22	-0.22
-0.11	-0.11	-0.11	-0.11

-0.29	-0.29	-0.29	-0.29
0.15	0.15	0.15	0.15
0.11	0.11	0.11	0.11
-0.17	-0.17	-0.17	-0.17
0.11	0.11	0.11	0.11
-0.22	-0.22	-0.22	-0.22
-0.08	-0.08	-0.08	-0.08
-0.09	-0.09	-0.09	-0.09
-0.08	-0.08	-0.08	-0.08
0.10	0.10	0.10	0.10
-0.17	-0.17	-0.17	-0.17
0.16	0.16	0.16	0.16
0.21	0.21	0.21	0.21
0.11	0.11	0.11	0.11
0.23	0.23	0.23	0.23
0.12	0.12	0.12	0.12
-0.25	-0.25	-0.25	-0.25
-0.15	-0.15	-0.15	-0.15
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0.07	0.07	0.07	0.07
0.18	0.18	0.18	0.18
0.12	0.12	0.12	0.12
0.13	0.13	0.13	0.13
-0.10	-0.10	-0.10	-0.10
0.08	0.08	0.08	0.08
0.11	0.11	0.11	0.11
-0.21	-0.21	-0.21	-0.21
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-0.17	-0.17	-0.17	-0.17
-0.16	-0.16	-0.16	-0.16
-0.13	-0.13	-0.13	-0.13
0.09	0.09	0.09	0.09
0.18	0.18	0.18	0.18
-0.16	-0.16	-0.16	-0.16
0.10	0.10	0.10	0.10
-0.07	-0.07	-0.07	-0.07
-0.07	-0.07	-0.07	-0.07
-0.16	-0.16	-0.16	-0.16
0.16	0.16	0.16	0.16
0.11	0.11	0.11	0.11
0.19	0.19	0.19	0.19

0.08	0.08	0.08	0.08
0.14	0.14	0.14	0.14
-0.19	-0.19	-0.19	-0.19
0.07	0.07	0.07	0.07
0.10	0.10	0.10	0.10
-0.06	-0.06	-0.06	-0.06
-0.15	-0.15	-0.15	-0.15
-0.13	-0.13	-0.13	-0.13
-0.19	-0.19	-0.19	-0.19
-0.15	-0.15	-0.15	-0.15
-0.21	-0.21	-0.21	-0.21
0.07	0.07	0.07	0.07
0.13	0.13	0.13	0.13
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-0.09	-0.09	-0.09	-0.09
0.12	0.12	0.12	0.12
-0.12	-0.12	-0.12	-0.12
0.10	0.10	0.10	0.10
-0.12	-0.12	-0.12	-0.12
0.14	0.14	0.14	0.14
-0.07	-0.07	-0.07	-0.07
-0.15	-0.15	-0.15	-0.15
0.11	0.11	0.11	0.11
-0.24	-0.24	-0.24	-0.24
0.09	0.09	0.09	0.09
-0.11	-0.11	-0.11	-0.11
0.10	0.10	0.10	0.10
-0.19	-0.19	-0.19	-0.19
0.12	0.12	0.12	0.12
-0.15	-0.15	-0.15	-0.15
-0.15	-0.15	-0.15	-0.15
-0.12	-0.12	-0.12	-0.12
-0.15	-0.15	-0.15	-0.15
-0.14	-0.14	-0.14	-0.14
0.10	0.10	0.10	0.10
-0.15	-0.15	-0.15	-0.15
-0.22	-0.22	-0.22	-0.22
0.07	0.07	0.07	0.07
-0.14	-0.14	-0.14	-0.14
-0.07	-0.07	-0.07	-0.07
-0.14	-0.14	-0.14	-0.14

-0.21	-0.21	-0.21	-0.21
-0.27	-0.27	-0.27	-0.27
0.08	0.08	0.08	0.08
0.15	0.15	0.15	0.15
-0.15	-0.15	-0.15	-0.15
0.13	0.13	0.13	0.13
-0.08	-0.08	-0.08	-0.08
0.07	0.07	0.07	0.07
-0.17	-0.17	-0.17	-0.17
-0.14	-0.14	-0.14	-0.14
-0.20	-0.20	-0.20	-0.20
0.11	0.11	0.11	0.11
-0.26	-0.26	-0.26	-0.26
-0.14	-0.14	-0.14	-0.14
-0.15	-0.15	-0.15	-0.15
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0.09	0.09	0.09	0.09
-0.07	-0.07	-0.07	-0.07
0.09	0.09	0.09	0.09
-0.20	-0.20	-0.20	-0.20
-0.17	-0.17	-0.17	-0.17
-0.09	-0.09	-0.09	-0.09
0.07	0.07	0.07	0.07
-0.10	-0.10	-0.10	-0.10
-0.12	-0.12	-0.12	-0.12
-0.13	-0.13	-0.13	-0.13
-0.13	-0.13	-0.13	-0.13
-0.20	-0.20	-0.20	-0.20
-0.14	-0.14	-0.14	-0.14
-0.11	-0.11	-0.11	-0.11
0.24	0.24	0.24	0.24
0.08	0.08	0.08	0.08
-0.27	-0.27	-0.27	-0.27
-0.24	-0.24	-0.24	-0.24
-0.21	-0.21	-0.21	-0.21
0.15	0.15	0.15	0.15
-0.20	-0.20	-0.20	-0.20
-0.09	-0.09	-0.09	-0.09

-0.11	-0.11	-0.11	-0.11
0.08	0.08	0.08	0.08
-0.08	-0.08	-0.08	-0.08
0.14	0.14	0.14	0.14
0.15	0.15	0.15	0.15
-0.10	-0.10	-0.10	-0.10
-0.18	-0.18	-0.18	-0.18
0.09	0.09	0.09	0.09
-0.16	-0.16	-0.16	-0.16
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0.13	0.13	0.13	0.13
-0.15	-0.15	-0.15	-0.15
-0.09	-0.09	-0.09	-0.09
0.07	0.07	0.07	0.07
-0.24	-0.24	-0.24	-0.24
-0.12	-0.12	-0.12	-0.12
-0.21	-0.21	-0.21	-0.21
0.10	0.10	0.10	0.10
0.09	0.09	0.09	0.09
-0.25	-0.25	-0.25	-0.25
0.09	0.09	0.09	0.09
0.16	0.16	0.16	0.16
-0.10	-0.10	-0.10	-0.10
0.10	0.10	0.10	0.10
-0.15	-0.15	-0.15	-0.15
0.08	0.08	0.08	0.08
-0.18	-0.18	-0.18	-0.18
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0.10	0.10	0.10	0.10
0.13	0.13	0.13	0.13
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0.08	0.08	0.08	0.08
-0.24	-0.24	-0.24	-0.24
-0.19	-0.19	-0.19	-0.19
0.09	0.09	0.09	0.09
-0.21	-0.21	-0.21	-0.21
-0.13	-0.13	-0.13	-0.13

-0.12	-0.12	-0.12	-0.12
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0.10	0.10	0.10	0.10
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-0.21	-0.21	-0.21	-0.21
0.07	0.07	0.07	0.07
0.11	0.11	0.11	0.11
0.15	0.15	0.15	0.15
-0.18	-0.18	-0.18	-0.18
0.23	0.23	0.23	0.23
0.18	0.18	0.18	0.18
-0.16	-0.16	-0.16	-0.16
0.07	0.07	0.07	0.07
-0.11	-0.11	-0.11	-0.11
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0.10	0.10	0.10	0.10
0.08	0.08	0.08	0.08
-0.20	-0.20	-0.20	-0.20
0.09	0.09	0.09	0.09
0.10	0.10	0.10	0.10
-0.08	-0.08	-0.08	-0.08
-0.08	-0.08	-0.08	-0.08
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0.11	0.11	0.11	0.11
-0.14	-0.14	-0.14	-0.14
-0.11	-0.11	-0.11	-0.11
0.15	0.15	0.15	0.15
-0.26	-0.26	-0.26	-0.26
0.14	0.14	0.14	0.14
0.15	0.15	0.15	0.15
0.10	0.10	0.10	0.10
-0.24	-0.24	-0.24	-0.24
-0.17	-0.17	-0.17	-0.17
0.09	0.09	0.09	0.09
-0.30	-0.30	-0.30	-0.30
-0.15	-0.15	-0.15	-0.15
0.17	0.17	0.17	0.17

0.15	0.15	0.15	0.15
-0.15	-0.15	-0.15	-0.15
-0.13	-0.13	-0.13	-0.13
-0.19	-0.19	-0.19	-0.19
0.09	0.09	0.09	0.09
-0.16	-0.16	-0.16	-0.16
-0.09	-0.09	-0.09	-0.09
0.14	0.14	0.14	0.14
0.19	0.19	0.19	0.19
-0.09	-0.09	-0.09	-0.09
0.09	0.09	0.09	0.09
0.08	0.08	0.08	0.08
0.10	0.10	0.10	0.10
0.07	0.07	0.07	0.07
0.08	0.08	0.08	0.08
-0.14	-0.14	-0.14	-0.14
-0.09	-0.09	-0.09	-0.09
-0.17	-0.17	-0.17	-0.17
0.09	0.09	0.09	0.09
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0.12	0.12	0.12	0.12
-0.31	-0.31	-0.31	-0.31
0.10	0.10	0.10	0.10
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0.17	0.17	0.17	0.17
0.14	0.14	0.14	0.14
0.11	0.11	0.11	0.11
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0.08	0.08	0.08	0.08
-0.23	-0.23	-0.23	-0.23

0.15	0.15	0.15	0.15
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-0.11	-0.11	-0.11	-0.11
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0.17	0.17	0.17	0.17
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0.21	0.21	0.21	0.21
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0.09	0.09	0.09	0.09
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0.10	0.10	0.10	0.10
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0.12	0.12	0.12	0.12
0.09	0.09	0.09	0.09
-0.14	-0.14	-0.14	-0.14
-0.11	-0.11	-0.11	-0.11
0.14	0.14	0.14	0.14
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0.16	0.16	0.16	0.16
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0.10	0.10	0.10	0.10
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-0.12	-0.12	-0.12	-0.12
0.11	0.11	0.11	0.11
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0.18	0.18	0.18	0.18
-0.14	-0.14	-0.14	-0.14
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0.12	0.12	0.12	0.12
-0.12	-0.12	-0.12	-0.12
0.08	0.08	0.08	0.08
0.18	0.18	0.18	0.18
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0.09	0.09	0.09	0.09
0.13	0.13	0.13	0.13
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0.12	0.12	0.12	0.12
0.08	0.08	0.08	0.08
0.15	0.15	0.15	0.15
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0.15	0.15	0.15	0.15
0.07	0.07	0.07	0.07
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0.13	0.13	0.13	0.13

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-0.16	-0.16	-0.16	-0.16
0.10	0.10	0.10	0.10
-0.13	-0.13	-0.13	-0.13
0.07	0.07	0.07	0.07
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-0.08	-0.08	-0.08	-0.08
0.15	0.15	0.15	0.15
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0.08	0.08	0.08	0.08
-0.08	-0.08	-0.08	-0.08
-0.18	-0.18	-0.18	-0.18
-0.07	-0.07	-0.07	-0.07
0.08	0.08	0.08	0.08
0.15	0.15	0.15	0.15
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0.17	0.17	0.17	0.17
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0.13	0.13	0.13	0.13
0.08	0.08	0.08	0.08
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-0.08	-0.08	-0.08	-0.08
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0.09	0.09	0.09	0.09
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0.14	0.14	0.14	0.14
0.11	0.11	0.11	0.11
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0.15	0.15	0.15	0.15

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0.09	0.09	0.09	0.09
0.17	0.17	0.17	0.17
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0.12	0.12	0.12	0.12
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0.07	0.07	0.07	0.07
0.11	0.11	0.11	0.11
0.08	0.08	0.08	0.08
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0.09	0.09	0.09	0.09
0.12	0.12	0.12	0.12
0.08	0.08	0.08	0.08
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0.14	0.14	0.14	0.14
0.12	0.12	0.12	0.12
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0.12	0.12	0.12	0.12
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0.13	0.13	0.13	0.13
-0.11	-0.11	-0.11	-0.11

-0.09	-0.09	-0.09	-0.09
0.12	0.12	0.12	0.12
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0.15	0.15	0.15	0.15
-0.13	-0.13	-0.13	-0.13
-0.27	-0.27	-0.27	-0.27
0.07	0.07	0.07	0.07
-0.25	-0.25	-0.25	-0.25
-0.07	-0.07	-0.07	-0.07
0.09	0.09	0.09	0.09
-0.16	-0.16	-0.16	-0.16
-0.17	-0.17	-0.17	-0.17
0.14	0.14	0.14	0.14
0.12	0.12	0.12	0.12
0.12	0.12	0.12	0.12
0.09	0.09	0.09	0.09
0.10	0.10	0.10	0.10
0.12	0.12	0.12	0.12
0.07	0.07	0.07	0.07
0.11	0.11	0.11	0.11
0.16	0.16	0.16	0.16
-0.18	-0.18	-0.18	-0.18
-0.16	-0.16	-0.16	-0.16
0.10	0.10	0.10	0.10
0.10	0.10	0.10	0.10
-0.20	-0.20	-0.20	-0.20
-0.15	-0.15	-0.15	-0.15
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-0.33	-0.33	-0.33	-0.33
-0.09	-0.09	-0.09	-0.09
-0.15	-0.15	-0.15	-0.15
-0.37	-0.37	-0.37	-0.37
-0.07	-0.07	-0.07	-0.07
-0.13	-0.13	-0.13	-0.13
-0.15	-0.15	-0.15	-0.15
-0.09	-0.09	-0.09	-0.09
-0.09	-0.09	-0.09	-0.09
-0.16	-0.16	-0.16	-0.16
-0.24	-0.24	-0.24	-0.24
0.07	0.07	0.07	0.07
-0.18	-0.18	-0.18	-0.18
-0.11	-0.11	-0.11	-0.11

0.10	0.10	0.10	0.10
-0.12	-0.12	-0.12	-0.12
0.13	0.13	0.13	0.13
-0.12	-0.12	-0.12	-0.12
0.13	0.13	0.13	0.13
-0.07	-0.07	-0.07	-0.07
0.08	0.08	0.08	0.08
-0.08	-0.08	-0.08	-0.08
0.07	0.07	0.07	0.07
-0.17	-0.17	-0.17	-0.17
-0.09	-0.09	-0.09	-0.09
0.08	0.08	0.08	0.08
-0.14	-0.14	-0.14	-0.14
-0.14	-0.14	-0.14	-0.14
-0.13	-0.13	-0.13	-0.13
0.13	0.13	0.13	0.13
0.09	0.09	0.09	0.09
-0.18	-0.18	-0.18	-0.18
-0.22	-0.22	-0.22	-0.22
0.11	0.11	0.11	0.11
0.10	0.10	0.10	0.10
-0.21	-0.21	-0.21	-0.21
0.17	0.17	0.17	0.17
0.19	0.19	0.19	0.19
0.15	0.15	0.15	0.15
-0.15	-0.15	-0.15	-0.15
-0.15	-0.15	-0.15	-0.15
-0.16	-0.16	-0.16	-0.16
0.14	0.14	0.14	0.14
0.12	0.12	0.12	0.12
0.07	0.07	0.07	0.07
-0.13	-0.13	-0.13	-0.13
-0.09	-0.09	-0.09	-0.09
0.08	0.08	0.08	0.08

A	B	C
9347	0.00	1.16E-06
9349	0.00	3.19E-03
9362	0.00	1.64E-05
9370	-0.10	6.30E-04
9373	0.00	6.97E-03
9381	0.00	1.60E-05
9385	-0.10	4.89E-03
9390	0.00	3.63E-03
9394	0.00	2.07E-04
9402	0.00	1.71E-03
9406	0.00	6.57E-06
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9424	0.00	5.90E-07
9426	0.00	8.66E-03
9430	0.00	7.44E-05
9437	0.00	3.85E-03
9438	0.10	6.46E-04
9448	0.00	4.19E-03
9452	-0.10	2.68E-05
9453	0.00	4.52E-04
9460	0.10	8.57E-10
9461	0.00	2.50E-03
9462	0.00	2.35E-03
9464	0.00	8.93E-04
9473	0.00	2.11E-03
9477	0.00	7.28E-05
9492	0.00	7.73E-03
9493	0.00	1.46E-05
9494	-0.10	1.68E-03
9508	0.00	3.60E-04
9516	0.00	5.72E-03
9527	0.00	3.25E-03
9531	0.00	5.04E-08
9543	0.00	7.39E-03
9551	0.00	7.44E-03
9552	0.00	1.83E-03
9553	0.00	8.77E-03
9554	0.00	1.10E-07
9557	0.00	9.88E-05

9558	0.00	2.52E-04
9561	0.00	9.22E-07
9567	0.00	3.59E-04
9575	0.00	6.64E-06
9576	-0.10	7.97E-03
9587	0.00	1.84E-04
9589	0.00	3.45E-06
9591	0.00	7.26E-03
9597	0.00	3.12E-03
9609	0.00	8.54E-04
9624	0.00	2.34E-03
9629	0.00	1.51E-03
9636	0.00	7.69E-03
9638	0.00	6.25E-05
9641	0.00	6.61E-05
9646	0.00	3.90E-03
9647	-0.10	2.27E-06
9665	-0.10	1.79E-11
9672	0.00	6.81E-04
9673	0.00	1.20E-03
9676	0.00	3.93E-03
9677	0.00	3.74E-03
9680	0.00	4.60E-07
9685	-0.10	4.11E-15
9686	0.00	8.23E-03
9688	0.00	1.92E-03
9692	0.00	7.98E-03
9698	0.00	1.29E-06
9713	-0.10	8.20E-06
9714	0.10	2.31E-08
9722	-0.10	1.21E-11
9730	0.00	7.89E-04
9747	-0.10	3.51E-08
9768	0.00	2.35E-03
9769	0.00	1.86E-03
9771	0.00	1.43E-03
9773	0.00	5.86E-04
9781	0.00	7.97E-05
9794	0.00	7.86E-03
9798	0.00	8.98E-03
9801	0.00	2.42E-05

9806	0.00	3.21E-03
9820	0.10	3.06E-04
9844	0.10	5.67E-04
9849	0.00	8.16E-03
9855	0.00	8.88E-03
9860	0.00	7.14E-04
9866	0.00	8.85E-03
9867	0.00	2.29E-03
9868	0.00	1.07E-04
9869	0.00	3.80E-04
9873	0.00	3.37E-05
9874	0.00	4.77E-06
9883	0.00	4.87E-03
9891	0.00	1.43E-03
9894	0.00	4.17E-04
9902	0.10	4.42E-08
9917	0.00	2.10E-03
9924	0.00	1.54E-03
9925	0.00	6.65E-05
9936	0.00	7.93E-03
9942	0.00	3.77E-03
9945	0.00	4.66E-06
9946	0.10	1.24E-12
9949	0.00	1.15E-04
9952	0.00	7.77E-03
9957	0.00	1.42E-03
9959	0.00	4.60E-07
9961	0.00	2.40E-05
9962	0.00	4.48E-06
9963	0.00	7.91E-03
9969	0.00	9.20E-03
9973	-0.10	8.06E-07
9975	0.00	6.26E-03
9976	0.00	7.66E-04
9977	0.00	8.23E-03
9981	0.00	1.58E-03
9995	0.00	1.35E-04
10006	0.00	1.28E-04
10020	0.00	4.83E-03
10025	0.00	1.36E-03
10036	0.00	7.61E-03
10059	0.00	8.34E-03

10062	-0.10	7.67E-10
10066	0.00	2.95E-07
10077	0.00	2.21E-10
10079	0.10	8.78E-05
10082	0.00	5.81E-03
10095	0.00	3.13E-06
10102	0.00	2.29E-05
10106	0.10	2.54E-03
10107	0.00	1.27E-03
10110	0.00	1.51E-03
10124	0.00	4.21E-03
10126	0.10	1.00E-04
10127	-0.10	9.81E-08
10134	-0.10	6.99E-03
10138	0.00	3.84E-03
10142	0.00	5.84E-03
10160	0.00	1.06E-04
10161	0.00	6.79E-03
10177	0.00	5.42E-06
10188	0.00	2.21E-03
10193	0.00	1.44E-03
10194	0.00	4.87E-04
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10199	0.00	1.21E-03
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10262	0.00	7.35E-05
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10270	0.00	7.57E-03
10283	0.00	3.22E-03
10287	0.00	1.34E-04
10289	-0.10	1.48E-07
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10304	0.00	1.99E-03
10312	0.00	5.71E-03
10313	0.00	3.94E-04
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10341	0.00	2.39E-07
10342	0.00	5.26E-03
10343	0.00	3.41E-03
10357	0.00	3.72E-03
10361	0.00	2.38E-04
10367	0.00	1.97E-03
10385	0.10	1.21E-08
10392	0.00	4.69E-03
10402	0.00	3.83E-05
10433	0.00	7.99E-03
10438	0.00	7.31E-03
10439	0.00	8.53E-03
10449	0.00	3.63E-03
10454	0.00	1.88E-05
10456	-0.10	2.97E-07
10481	0.00	3.17E-04
10482	0.00	1.83E-03
10494	0.00	3.82E-03
10501	0.00	2.28E-03
10513	0.00	5.91E-03
10520	-0.10	1.43E-04
10531	0.10	3.11E-04
10545	0.00	4.70E-05
10547	-0.10	1.94E-07
10553	0.00	5.81E-06
10559	0.00	1.04E-03
10560	0.00	1.15E-04
10569	0.00	4.30E-03
10570	0.00	7.32E-03
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10609	0.00	1.95E-03
10613	-0.10	1.19E-07
10625	0.00	8.03E-03
10629	0.00	9.62E-05
10634	0.00	7.93E-05
10639	0.00	3.62E-03
10644	0.00	8.10E-03
10666	-0.10	1.78E-06

10667	0.00	8.64E-03
10668	-0.10	4.34E-04
10669	-0.10	2.33E-04
10674	0.00	2.16E-03
10697	0.00	1.72E-03
10715	-0.10	8.55E-04
10716	0.00	9.39E-03
10717	0.00	3.08E-03
10730	0.00	9.28E-05
10731	0.00	7.70E-03
10733	0.00	8.23E-04
10734	0.10	1.10E-07
10752	0.00	2.57E-04
10758	-0.10	1.51E-04
10763	0.00	2.11E-03
10774	0.10	2.09E-04
10791	0.00	1.83E-04
10801	0.00	2.34E-05
10818	0.00	5.75E-03
10820	0.00	1.74E-03
10821	-0.10	2.44E-07
10840	0.00	1.45E-03
10842	0.00	6.14E-03
10850	0.00	4.93E-08
10872	0.00	2.37E-05
10888	0.00	1.96E-06
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10892	0.00	5.45E-06
10908	0.00	1.83E-04
10917	0.00	5.61E-04
10923	-0.10	1.11E-04
10924	0.00	3.25E-04
10926	-0.10	1.05E-04
10928	-0.10	1.30E-03
10929	0.10	1.88E-04
10942	0.00	2.07E-03
10950	0.00	3.49E-04
10951	0.00	6.46E-03
10961	-0.10	2.61E-03
10965	0.00	1.01E-04
10973	-0.10	1.15E-06
11007	-0.10	3.56E-07

11012	0.00	8.10E-03
11013	0.00	8.24E-06
11016	0.00	2.98E-04
11029	0.00	4.29E-03
11032	0.00	8.61E-04
11040	0.00	1.73E-03
11042	0.10	2.26E-04
11047	0.00	4.43E-03
11058	0.00	2.92E-03
11062	0.00	9.20E-07
11075	0.00	3.49E-03
11077	-0.10	2.43E-03
11086	0.00	2.76E-03
11087	0.00	3.30E-06
11090	0.00	9.35E-04
11092	0.00	2.43E-03
11095	0.00	1.94E-03
11097	0.00	1.41E-05
11101	0.00	1.90E-05
11132	0.00	2.92E-04
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11136	0.00	1.10E-05
11139	0.00	2.32E-04
11147	-0.10	2.75E-05
11149	0.00	6.38E-06
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11157	0.00	6.70E-05
11159	0.10	8.47E-17
11161	-0.10	3.86E-06
11166	-0.10	1.33E-09
11173	0.00	7.20E-06
11182	0.00	4.92E-06
11184	0.00	3.36E-06
11191	0.00	1.03E-03
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11223	0.00	7.37E-03
11241	0.00	3.42E-03
11249	0.00	3.47E-03
11270	-0.10	1.32E-04
11272	0.00	2.48E-04

11277	0.00	1.04E-04
11290	-0.10	5.11E-11
11292	0.00	2.05E-04
11293	0.00	9.91E-03
11306	0.00	1.93E-03
11310	0.00	3.29E-06
11311	0.00	1.42E-04
11312	0.00	1.24E-05
11315	0.00	3.24E-03
11331	0.00	8.11E-07
11340	0.10	1.29E-08
11344	0.00	3.04E-03
11350	0.00	1.56E-03
11355	0.00	6.71E-04
11359	0.00	2.36E-05
11362	-0.10	2.01E-03
11369	0.00	6.21E-03
11381	-0.10	1.45E-03
11383	0.00	6.88E-04
11384	0.00	9.88E-06
11386	-0.10	2.21E-04
11396	0.00	8.89E-04
11399	0.00	5.34E-03
11400	0.00	1.73E-04
11408	0.00	8.07E-06

11412	0.00	4.51E-03
11415	-0.10	2.51E-03
11431	0.00	8.42E-03
11439	0.00	3.32E-03
11472	0.00	9.68E-04
11480	0.00	5.81E-06
11485	0.00	5.77E-03
11489	0.10	3.09E-03
11492	0.00	1.71E-08
11494	0.10	4.48E-05
11495	0.00	4.95E-06
11500	0.10	1.11E-05
11501	0.00	9.87E-05
11510	0.00	9.13E-04
11521	0.10	1.39E-04
11548	0.00	7.62E-04
11549	0.00	7.16E-04
11560	0.00	5.80E-04
11581	0.00	2.65E-03
11582	0.00	9.38E-05
11594	0.00	2.34E-04
11600	-0.10	2.06E-08
11601	0.00	6.64E-08
11605	0.00	8.32E-05
11607	0.00	1.47E-04
11619	0.00	2.07E-04
11621	0.00	3.14E-03
11632	0.00	2.30E-04
11664	0.00	3.51E-03
11684	0.10	7.00E-06
11686	0.00	1.97E-05
11702	0.00	1.70E-05
11705	0.10	8.63E-10
11724	0.00	2.78E-04
11726	0.00	3.89E-03
11742	0.00	2.74E-03
11757	0.00	9.84E-04
11758	0.00	1.73E-04
11772	0.00	1.49E-04
11776	0.00	4.19E-03
11780	0.00	5.17E-04

11801	-0.10	5.02E-03
11843	0.00	2.71E-03
11844	0.00	4.69E-03
11845	0.00	1.17E-07
11847	0.00	4.46E-05
11861	0.00	1.45E-03
11863	0.00	2.51E-03
11866	-0.10	4.43E-08
11873	0.00	1.46E-04
11890	0.00	3.06E-06
11894	0.00	7.57E-06
11896	-0.10	3.43E-08
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11906	0.00	4.37E-04
11907	0.00	4.62E-03
11908	0.00	2.04E-04
11920	0.00	5.70E-05
11927	0.00	5.42E-03
11929	0.00	5.83E-03
11931	0.00	1.99E-03
11932	0.00	7.56E-04
11933	0.00	6.38E-06
11936	0.00	1.40E-03
11947	0.00	1.29E-03
11961	0.00	1.02E-04
11963	0.10	2.22E-09
11982	-0.10	7.98E-05
11986	0.00	3.93E-03
11998	0.10	1.18E-04
12000	0.00	5.09E-03
12010	0.00	6.07E-04
12013	0.00	3.16E-03
12015	0.10	1.21E-05
12032	0.00	5.78E-06
12043	0.00	1.30E-05
12059	0.00	3.50E-03
12066	0.00	1.93E-04
12072	0.00	8.45E-03
12073	-0.10	1.41E-05

12076	0.00	4.47E-05
12095	0.00	9.26E-03
12121	0.00	1.28E-03
12127	0.10	3.50E-06
12130	-0.10	3.05E-03
12137	0.00	5.53E-04
12152	-0.10	1.56E-05
12154	0.00	4.15E-04
12168	0.00	4.63E-04
12173	0.00	1.31E-06
12174	0.00	9.53E-08
14061	0.00	3.21E-03
14071	0.00	5.15E-05
14080	0.00	3.37E-03
14083	0.00	1.61E-03
14086	0.00	2.30E-07
14087	-0.20	1.76E-16
14090	0.00	8.52E-04
14101	0.10	3.84E-08
14106	0.00	8.78E-05
14111	0.00	1.39E-04
14113	0.00	4.80E-05
14130	0.00	2.32E-03
14151	0.00	3.59E-05
14153	0.00	3.23E-03
14166	-0.10	3.20E-03
14170	0.00	2.88E-05
14176	0.00	4.16E-03
14178	0.00	2.54E-03
14186	0.00	2.09E-03
14189	0.10	5.15E-05
14194	-0.10	1.84E-04
14214	0.10	1.02E-03
14227	0.00	1.16E-03
14242	0.00	6.49E-08
14260	0.00	2.79E-06
14269	0.00	1.67E-05
14273	0.00	1.89E-03
14295	0.00	2.44E-03
14298	0.00	5.49E-04
14299	0.00	6.81E-06
14330	0.00	3.48E-06

14334	0.00	2.04E-04
14338	0.00	9.31E-03
14344	0.00	1.34E-04
14365	0.00	2.13E-04
14377	0.00	5.64E-08
14380	0.00	1.52E-04
14381	-0.10	6.95E-06
14389	0.00	5.10E-03
14391	0.00	2.33E-03
14397	0.00	7.57E-03
14399	0.00	1.95E-03
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14406	-0.10	8.79E-09
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12116	0.01	5.00E-02
12192	-0.03	5.00E-02
12350	-0.01	5.00E-02

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1431	0.20	9.64E-08
1434	0.20	5.12E-06
1436	-0.30	2.27E-08
1439	0.30	1.20E-09
1441	-0.30	4.09E-03
1443	0.20	9.87E-09
1444	0.30	5.56E-09
1448	-0.20	1.52E-06

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546	-0.20	2.21E-04
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561	-0.50	9.17E-13
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615	0.10	2.46E-03
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623	0.20	1.03E-05
628	0.20	2.80E-03
629	0.50	3.37E-24
633	0.10	1.86E-03
636	0.20	2.49E-05
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640	-0.10	7.84E-04
644	0.40	3.66E-27
1622	0.30	1.92E-08
1623	0.20	1.34E-08
1625	0.20	1.33E-08
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1643	0.10	7.59E-03
1644	-0.50	9.86E-13

1275	-0.10	2.04E-03
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1366	0.10	1.55E-03
1370	-0.80	1.46E-15
1373	0.30	2.20E-07
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1378	-0.30	1.22E-04
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1529	-0.20	1.34E-03
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1560	0.40	3.87E-12
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1573	0.20	2.23E-05
1575	-0.20	2.72E-04
1577	0.20	9.20E-04
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1659	0.30	4.22E-04
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1663	-0.30	1.97E-04
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1665	-0.30	1.75E-04
1668	0.20	3.55E-04
1676	-0.20	4.60E-04
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1681	0.50	1.01E-20
1684	0.20	1.81E-03
1686	0.30	3.87E-10
1696	-0.50	2.24E-04
1705	-0.30	5.94E-04
1717	-0.30	8.00E-05
1718	0.10	8.63E-04
1722	0.50	1.94E-26
1727	0.20	1.57E-04
1730	0.40	1.43E-20
1731	-0.30	8.17E-08
1737	0.30	1.73E-07
1741	0.20	7.44E-04
1743	-0.40	2.08E-05
1744	0.20	8.38E-06
1745	0.20	9.37E-06
1751	0.50	2.87E-32
1752	0.40	9.97E-22
1758	0.30	5.61E-04
1760	0.20	1.79E-04
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1764	-0.20	1.87E-07
1768	-0.40	6.08E-09
1772	-0.20	1.17E-03
1773	-0.20	1.75E-03
1774	-0.50	2.39E-03
1776	-0.30	1.76E-08
1778	-0.30	7.54E-04
1780	0.40	2.49E-27

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1396	-0.30	2.57E-09	1599	0.60	7.86E-34	1788	-0.30	7.40E-06
1397	0.20	8.02E-05	1601	-0.30	2.03E-06	1789	0.20	1.45E-06
1401	-0.30	9.60E-14	1604	-0.20	3.98E-05	1790	-0.20	1.05E-08
1406	-0.30	5.41E-13	1607	-0.20	2.79E-03	1794	0.10	2.80E-03
1409	0.20	5.08E-07	1612	0.20	8.00E-08	1795	-0.20	1.48E-04
1410	-0.50	7.05E-20	1614	0.30	1.70E-11	1798	0.20	8.21E-05
1411	0.40	2.52E-13	1615	-0.50	1.80E-06	1803	-0.40	8.74E-07
275								
1419	-0.20	4.90E-04	1616	0.30	4.98E-11	1804	-0.40	1.84E-04
2393	-0.30	2.27E-13	1617	-0.20	6.49E-05	1805	-0.30	3.70E-08
2394	-0.30	1.54E-07	1618	0.20	9.72E-06	1806	0.50	2.12E-05
2396	-0.20	8.10E-03	1620	-0.40	5.47E-19	1810	0.20	1.58E-03
2398	0.20	2.46E-06	2570	0.30	1.01E-04	2773	-0.30	4.34E-05
2399	-0.10	7.65E-03	2571	-0.30	4.59E-11	2774	0.20	4.83E-04
2400	0.40	2.82E-14	2575	0.30	7.41E-05	2778	0.10	9.15E-03
2406	0.30	6.55E-10	2577	-0.40	2.14E-05	2781	0.40	1.02E-16
2408	0.20	1.33E-07	2578	-0.30	7.26E-07	2782	0.20	1.16E-14
2413	0.40	2.65E-14	2582	-0.20	1.00E-05	2786	0.10	2.18E-03
2414	0.40	2.22E-14	2583	0.20	1.11E-07	2788	0.20	8.33E-05
2415	-0.20	1.99E-03	2587	-0.10	7.03E-03	2789	0.40	1.89E-06
2418	-0.20	4.78E-07	2590	0.20	3.82E-03	2790	0.20	3.77E-07
2421	-0.10	3.18E-03	2591	-0.10	5.21E-03	2791	0.20	9.60E-06
2422	-0.20	2.46E-04	2595	0.30	5.53E-17	2795	0.10	2.36E-03
2423	0.10	5.03E-03	2597	0.30	1.80E-04	2796	0.20	4.61E-06
2424	-0.40	3.60E-07	2604	-0.20	6.14E-04	2799	0.20	1.03E-03
2427	-0.20	2.31E-05	2608	0.20	1.40E-07	2801	0.10	6.69E-03
2432	0.30	1.16E-08	2611	-0.30	6.98E-07	2816	-0.40	3.83E-05
2433	0.20	4.19E-03	2612	-0.20	1.43E-05	2821	-0.10	8.70E-03
2437	-0.30	7.47E-08	2613	-0.30	2.79E-07	2824	0.10	1.32E-03
2443	-0.20	4.76E-03	2617	-0.20	8.98E-04	2828	0.20	1.42E-04
2446	0.30	4.89E-12	2619	0.20	3.20E-04	2829	-0.40	9.48E-09
2452	0.30	3.37E-06	2620	0.20	4.00E-11	2830	-0.40	1.48E-08
2453	-0.20	1.99E-07	2630	0.30	2.25E-06	2836	0.20	3.97E-06
2465	-0.50	5.84E-39	2633	-0.50	1.38E-10	2838	-0.40	2.10E-11
2466	-0.50	1.73E-27	2638	-0.50	3.90E-04	2841	-0.20	1.31E-03
2470	-0.50	5.36E-13	2640	0.50	5.84E-11	2843	0.30	7.47E-11
2471	0.40	7.29E-23	2646	0.20	3.47E-04	2844	-0.40	7.03E-05
2472	-0.40	1.72E-11	2647	0.30	4.10E-08	2845	-0.40	1.55E-04
2476	0.20	6.74E-07	2649	-0.20	6.37E-08	2848	-0.50	2.39E-24

2479	0.10	4.86E-04	2650	0.20	1.34E-04	2850	-0.20	5.04E-03
2480	0.10	1.16E-03	2651	0.10	6.35E-03	2859	0.10	5.95E-04
2482	-0.10	9.74E-03	2657	0.20	4.46E-04	2860	0.40	1.04E-08
2483	0.20	7.48E-05	2664	0.10	4.93E-03	2873	0.30	3.26E-06
2484	0.30	3.16E-10	2665	0.10	3.38E-03	2874	-0.30	2.78E-08
2485	0.30	1.28E-10	2667	0.20	9.30E-03	2877	0.30	4.39E-03
2486	0.30	1.63E-08	2668	-0.40	3.53E-18	2878	-0.20	2.72E-06
2489	0.20	4.43E-05	2670	-0.30	3.51E-04	2880	-0.40	1.22E-03
2490	-0.30	1.01E-03	2684	0.20	1.65E-03	2882	0.20	2.26E-06
2491	0.40	1.24E-24	2687	0.20	1.12E-04	2887	-0.60	9.41E-04
2495	0.10	1.08E-03	2688	-0.40	2.27E-13	2888	-0.30	3.89E-09
2499	0.20	1.14E-05	2692	0.20	1.99E-03	2889	0.10	1.08E-03
2501	-0.20	1.74E-10	2693	0.30	3.68E-08	2890	0.40	1.66E-27
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2522	-0.20	2.34E-08	2714	-0.40	1.02E-04	2907	-0.30	9.24E-11
2523	-0.20	1.01E-08	2721	0.20	1.94E-03	2914	0.40	1.80E-15
2531	-0.30	1.76E-03	2722	-0.20	8.42E-07	2921	-0.20	4.34E-04
2532	-0.30	1.14E-10	2727	0.30	1.09E-10	2924	0.30	3.09E-14
2534	0.30	1.39E-03	2730	-0.50	3.33E-07	2927	0.20	4.65E-06
2535	0.40	2.89E-09	2731	-0.50	5.44E-07	2932	0.30	1.69E-03
2540	0.20	2.41E-04	2735	0.30	4.06E-14	2935	-0.20	6.45E-04
2543	0.30	1.81E-05	2738	-0.20	1.22E-03	2941	-0.40	6.37E-09
2545	-0.20	1.45E-03	2739	-0.20	1.77E-03	2946	0.20	2.91E-07
2547	-0.20	1.42E-04	2742	-0.40	6.61E-05	2954	-0.10	6.76E-04
2549	-0.40	9.54E-03	2743	0.30	5.35E-12	2955	-0.60	2.15E-10
2550	-0.30	7.57E-05	2746	0.10	2.90E-05	2959	-0.50	1.56E-27
2553	0.10	6.26E-03	2752	-0.60	1.26E-11	2962	0.20	1.07E-05
2559	-0.50	6.63E-03	2754	0.40	3.52E-25	2965	0.20	9.06E-07
276								
2564	0.10	2.04E-03	2756	-0.50	2.84E-28	2968	-0.20	3.01E-03
2568	0.10	3.57E-03	2758	0.10	5.96E-03	2971	-0.30	1.44E-09
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3588	-0.20	9.89E-06	2761	-0.20	1.31E-07	2995	0.40	3.10E-16
3591	0.20	2.22E-03	2772	-0.20	1.40E-06	2996	0.20	1.32E-04
3593	-0.40	4.45E-13	3760	0.30	3.96E-15	3950	0.10	3.20E-04
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-0.16	-0.16
-0.10	-0.10
-0.12	-0.12
-0.12	-0.12
0.10	0.10
-0.25	-0.25
-0.12	-0.12
-0.12	-0.12
0.11	0.11
-0.14	-0.14

0.18	0.18
-0.14	-0.14
-0.09	-0.09
-0.12	-0.12
-0.21	-0.21
-0.12	-0.12
0.12	0.12
-0.12	-0.12
0.08	0.08
0.18	0.18
-0.19	-0.19
0.09	0.09
0.13	0.13
-0.07	-0.07
-0.16	-0.16
0.25	0.25
-0.05	-0.05
-0.10	-0.10
-0.11	-0.11
-0.07	-0.07
0.08	0.08
0.10	0.10
-0.15	-0.15
-0.08	-0.08
-0.18	-0.18
0.21	0.21
-0.20	-0.20
-0.15	-0.15
-0.07	-0.07
0.12	0.12
0.08	0.08
0.15	0.15
-0.09	-0.09
0.15	0.15
0.07	0.07
-0.09	-0.09
0.10	0.10
0.10	0.10
-0.17	-0.17
0.15	0.15
-0.13	-0.13
-0.24	-0.24
-0.18	-0.18

-0.25	-0.25
0.13	0.13
0.10	0.10
-0.14	-0.14
-0.08	-0.08
-0.21	-0.21
-0.19	-0.19
-0.09	-0.09
-0.16	-0.16
0.10	0.10
-0.13	-0.13
0.07	0.07
-0.16	-0.16
-0.16	-0.16
-0.19	-0.19
0.12	0.12
0.11	0.11
-0.08	-0.08
0.08	0.08
0.11	0.11
0.07	0.07
-0.08	-0.08
0.15	0.15
-0.13	-0.13
0.08	0.08
-0.08	-0.08
-0.18	-0.18
-0.07	-0.07
0.08	0.08
0.15	0.15
-0.21	-0.21
0.17	0.17
-0.16	-0.16
0.13	0.13
0.08	0.08
-0.18	-0.18
-0.08	-0.08
-0.10	-0.10
0.09	0.09
-0.13	-0.13
0.14	0.14
0.11	0.11
-0.20	-0.20

0.15	0.15
0.15	0.15
0.09	0.09
0.17	0.17
-0.11	-0.11
-0.11	-0.11
0.12	0.12
-0.17	-0.17
-0.15	-0.15
-0.23	-0.23
0.07	0.07
0.11	0.11
0.08	0.08
0.13	0.13
-0.21	-0.21
-0.26	-0.26
-0.14	-0.14
-0.12	-0.12
0.09	0.09
0.12	0.12
0.08	0.08
-0.15	-0.15
0.14	0.14
0.12	0.12
-0.07	-0.07
-0.16	-0.16
-0.18	-0.18
0.12	0.12
-0.13	-0.13
-0.09	-0.09
-0.10	-0.10
-0.08	-0.08
0.12	0.12
-0.11	-0.11
-0.16	-0.16
-0.19	-0.19
-0.19	-0.19
0.11	0.11
-0.15	-0.15
-0.11	-0.11
-0.23	-0.23
0.13	0.13
-0.11	-0.11

-0.09	-0.09
0.12	0.12
-0.17	-0.17
0.15	0.15
-0.13	-0.13
-0.27	-0.27
0.07	0.07
-0.25	-0.25
-0.07	-0.07
0.09	0.09
-0.16	-0.16
-0.17	-0.17
0.14	0.14
0.12	0.12
0.12	0.12
0.09	0.09
0.10	0.10
0.12	0.12
0.07	0.07
0.11	0.11
0.16	0.16
-0.18	-0.18
-0.16	-0.16
0.10	0.10
0.10	0.10
-0.20	-0.20
-0.15	-0.15
-0.15	-0.15
-0.33	-0.33
-0.09	-0.09
-0.15	-0.15
-0.37	-0.37
-0.07	-0.07
-0.13	-0.13
-0.15	-0.15
-0.09	-0.09
-0.09	-0.09
-0.16	-0.16
-0.24	-0.24
0.07	0.07
-0.18	-0.18
-0.11	-0.11
0.10	0.10

-0.12	-0.12
0.13	0.13
-0.12	-0.12
0.13	0.13
-0.07	-0.07
0.08	0.08
-0.08	-0.08
0.07	0.07
-0.17	-0.17
-0.09	-0.09
0.08	0.08
-0.14	-0.14
-0.14	-0.14
-0.13	-0.13
0.13	0.13
0.09	0.09
-0.18	-0.18
-0.22	-0.22
0.11	0.11
0.10	0.10
-0.21	-0.21
0.17	0.17
0.19	0.19
0.15	0.15
-0.15	-0.15
-0.15	-0.15
-0.16	-0.16
0.14	0.14
0.12	0.12
0.07	0.07
-0.13	-0.13
-0.09	-0.09
0.08	0.08

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TABLE 13 - GENETIC MARKERS FOR SURVIVAL

A	B	C	A	B	C	A	B	C
2	1.50	1.20E-04	2470	-3.10	7.71E-15	4870	-1.70	2.31E-10
3	1.30	7.11E-10	2471	2.00	9.94E-23	4871	-0.70	2.65E-03
4	1.70	2.41E-06	2472	-1.90	4.05E-13	4873	1.30	2.25E-08
5	-1.00	1.83E-03	2476	1.80	1.43E-17	4877	0.60	4.84E-03
6	-1.30	2.76E-03	2481	1.50	5.32E-04	4879	-1.00	8.64E-06
13	1.40	2.16E-09	2483	0.80	1.02E-03	4880	-3.00	1.14E-05
15	1.70	1.76E-08	2484	1.70	1.74E-16	4882	-0.90	8.39E-05
16	0.70	4.04E-03	2485	1.70	8.71E-18	4885	0.70	6.16E-04
21	0.80	1.11E-04	2486	1.40	7.34E-10	4887	-1.30	2.17E-04
22	-1.40	4.02E-11	2489	1.20	6.18E-07	4890	-1.20	1.89E-03
24	-0.70	4.57E-03	2490	-1.70	3.46E-03	4893	1.80	2.31E-18
27	-0.60	4.34E-03	2491	2.50	1.31E-34	4894	-1.40	7.62E-10
35	-1.50	3.23E-11	2492	-1.30	4.25E-04	4896	0.90	1.73E-04
36	-2.20	1.55E-09	2494	1.00	4.95E-06	4898	1.40	1.58E-18
38	-2.60	1.66E-09	2501	-0.90	1.07E-08	4899	1.00	1.62E-04
39	-3.90	6.82E-11	2504	-1.10	2.87E-03	4904	-0.70	1.27E-03
43	1.00	1.46E-05	2508	-0.80	3.42E-04	4905	-1.80	7.02E-06
46	-1.60	3.86E-08	2510	-3.00	4.69E-05	4907	-1.60	1.58E-03
50	-1.70	4.44E-04	2511	1.30	3.25E-07	4911	1.80	8.75E-12
52	-1.90	6.44E-16	2514	-0.60	9.15E-03	4914	-1.10	2.17E-06
54	0.90	1.24E-05	2515	0.90	6.66E-03	4917	0.80	1.07E-04
55	1.30	4.19E-03	2516	-1.20	1.30E-04	4919	1.20	7.00E-03
56	-0.80	9.01E-04	2518	0.90	6.29E-05	4920	1.80	7.41E-17
63	-1.80	1.16E-15	2522	-1.70	1.45E-15	4924	0.80	1.65E-04
65	-0.90	2.12E-03	2523	-1.70	3.44E-15	4929	-1.10	3.66E-05
66	-1.90	5.28E-19	2527	1.00	1.82E-06	4934	0.80	8.81E-04
67	1.00	2.83E-06	2532	-1.60	6.39E-11	4936	-1.80	2.83E-10
71	-2.00	1.68E-11	2534	1.20	1.72E-03	4937	1.20	2.31E-08
73	1.20	6.96E-06	2535	1.20	7.11E-06	4938	0.80	9.01E-05
75	-0.60	4.86E-03	2543	1.50	2.17E-07	4946	-0.80	1.35E-04
77	-1.00	6.92E-06	2545	-1.10	2.10E-04	4951	0.80	1.88E-04
86	1.60	2.54E-09	2547	-0.90	9.23E-05	4958	1.30	2.51E-10
97	-1.10	1.18E-07	2550	-3.30	8.79E-13	4960	1.80	6.37E-05
99	2.10	2.59E-25	2553	0.70	1.28E-03	4962	-1.70	5.03E-04
101	-2.10	1.14E-21	2559	-3.00	1.68E-05	4970	-1.10	1.68E-03
106	1.20	6.63E-09	2568	0.90	2.28E-04	4973	0.60	6.27E-03
111	0.70	8.02E-03	2570	0.90	7.53E-03	4976	-2.10	5.43E-07

TABLE 29 - GENETIC MARKERS FOR REAR ATTACHMENT WIDTH

1	-0.10	8.95E-06	2480	0.10	4.52E-07	4952	-0.10	9.08E-03	7341	-0.20	3.21E-03
2	0.20	4.82E-04	2483	0.10	9.53E-09	4958	0.10	4.39E-03	7355	-0.10	3.57E-03
5	-0.10	5.35E-03	2484	0.10	1.68E-09	4962	-0.20	6.70E-04	7357	0.20	1.24E-13
6	-0.10	2.00E-03	2485	0.10	4.36E-10	4970	-0.10	3.08E-03	7359	-0.30	3.92E-05
13	0.10	3.33E-03	2486	0.10	3.44E-04	4973	0.20	3.71E-08	7360	-0.10	1.34E-03
22	-0.10	3.42E-04	2490	-0.20	2.29E-03	4976	-0.20	1.45E-05	7367	-0.10	3.77E-04
35	-0.10	6.98E-10	2491	0.20	2.34E-13	4977	-0.10	1.54E-04	7370	-0.20	4.12E-04
36	-0.30	2.90E-10	2495	0.10	1.31E-03	4982	-0.10	1.40E-06	7374	0.20	6.46E-14
38	-0.20	1.48E-05	2499	0.20	1.00E-08	4986	-0.10	1.05E-04	7376	0.10	5.45E-03
39	-0.40	2.26E-07	2501	-0.10	7.77E-07	4987	-0.30	5.84E-05	7380	0.10	1.66E-03
46	-0.10	5.28E-06	2513	0.10	1.20E-04	4991	-0.10	1.40E-06	7386	-0.10	3.47E-06
52	-0.10	2.15E-08	2514	-0.10	9.87E-05	4994	-0.10	1.85E-06	7388	-0.10	1.85E-05
54	0.10	1.16E-04	2518	0.10	2.72E-06	4996	-0.30	1.55E-10	7390	0.20	4.67E-08
55	0.10	7.79E-03	2519	-0.10	2.24E-04	4997	0.10	3.66E-03	7392	-0.20	4.66E-03
57	0.10	3.64E-05	2522	-0.10	2.24E-10	4999	0.10	9.69E-03	7401	0.10	3.12E-03
59	-0.20	1.28E-03	2523	-0.10	2.09E-10	5003	-0.30	4.05E-08	7403	-0.20	9.57E-06
61	-0.10	4.64E-03	2527	0.10	4.62E-04	5004	-0.20	1.77E-05	7404	-0.20	9.63E-06
62	-0.20	6.34E-04	2531	-0.20	2.21E-04	5005	-0.20	1.75E-05	7406	0.10	1.11E-04
63	-0.10	3.84E-09	2532	-0.20	1.96E-12	5010	-0.10	3.61E-05	7407	0.10	1.56E-06
66	-0.10	1.02E-03	2534	0.20	1.77E-05	5013	0.20	4.98E-11	7409	-0.20	1.72E-03
67	0.20	5.02E-10	2535	0.20	1.56E-09	5016	-0.10	1.77E-08	7412	-0.10	1.07E-03
71	-0.20	1.08E-08	2542	0.10	7.87E-03	5025	0.20	2.51E-19	7414	0.10	2.78E-05
73	0.10	2.61E-03	2543	0.10	2.33E-04	5028	-0.10	3.04E-05	7416	-0.10	6.85E-04
75	-0.10	2.27E-05	2547	-0.10	7.21E-04	5035	-0.10	1.97E-03	7421	-0.10	2.61E-04
77	-0.10	8.31E-05	2564	0.10	6.64E-06	5036	0.10	9.77E-04	7424	0.20	1.35E-07
78	-0.10	5.84E-03	2568	0.10	1.47E-03	5046	-0.20	3.07E-11	7426	0.20	1.18E-09
83	-0.10	5.59E-03	2570	0.10	1.00E-03	5057	-0.10	6.05E-03	7429	0.10	2.24E-04
86	0.20	4.43E-06	2571	-0.20	3.40E-12	5060	0.10	1.64E-04	7430	-0.20	2.78E-10
93	-0.10	4.46E-03	2575	0.20	1.36E-03	5061	-0.10	1.94E-03	7431	0.10	3.07E-04
99	0.20	6.79E-20	2577	-0.30	1.61E-08	5063	-0.20	6.14E-07	7434	0.10	1.82E-10
101	-0.10	1.21E-08	2582	-0.10	1.10E-03	5066	-0.10	4.01E-05	7443	-0.20	5.76E-05
106	0.10	2.98E-05	2583	0.10	1.79E-08	5069	0.20	2.11E-12	7448	-0.20	1.19E-23
114	-0.10	6.19E-05	2584	0.10	6.31E-03	5070	0.20	5.25E-09	7449	-0.10	2.01E-05
120	-0.10	3.07E-04	2587	-0.10	1.48E-03	5071	0.10	1.32E-03	7453	-0.10	1.41E-05
126	0.30	8.10E-05	2595	0.10	1.90E-10	5078	-0.10	5.58E-05	7460	0.20	1.95E-17

131	0.20	1.84E-15	2604	-0.20	1.51E-08	5079	0.10	4.91E-08	7463	0.10	4.63E-04
133	0.10	4.51E-04	2608	0.10	7.81E-08	5083	0.20	1.03E-10	7468	0.10	1.25E-03
135	0.10	9.27E-03	2611	-0.20	1.84E-06	5086	0.20	7.94E-11	7471	-0.10	6.57E-03
136	-0.20	4.21E-04	2612	-0.10	1.68E-05	5088	0.10	1.64E-05	7472	0.10	7.77E-05
137	-0.10	2.09E-06	2613	-0.10	4.04E-04	5093	-0.10	6.76E-09	7476	-0.10	3.32E-03
142	-0.10	1.49E-03	2617	-0.10	1.56E-04	5094	0.20	2.43E-08	7478	-0.20	3.23E-04
143	0.10	2.65E-03	2620	0.10	4.53E-04	5097	0.10	1.67E-03	7482	-0.10	5.10E-03
148	-0.10	8.43E-05	2624	0.10	1.50E-03	5101	-0.10	7.02E-07	7485	-0.10	6.47E-03
150	-0.10	1.69E-05	2630	0.20	6.60E-04	5102	-0.20	1.35E-04	7490	-0.10	1.20E-03
152	0.20	3.62E-14	2633	-0.10	1.95E-03	5107	-0.10	7.49E-03	7491	0.10	6.68E-03
153	-0.10	1.97E-03	2636	0.10	1.73E-05	5114	0.10	2.23E-04	7493	0.10	2.94E-09
154	-0.20	2.11E-05	2638	-0.30	6.73E-05	5115	-0.10	3.99E-06	7494	0.10	6.30E-05
156	0.10	1.39E-03	2639	0.10	2.43E-04	5117	0.20	1.67E-05	7495	-0.10	7.34E-06
159	-0.10	3.83E-05	2640	0.30	3.55E-09	5118	0.10	6.42E-04	7502	-0.10	2.44E-07
164	-0.10	2.06E-04	2647	0.10	5.26E-04	5120	-0.20	8.56E-03	7504	-0.20	8.82E-07
168	0.10	2.66E-04	2648	-0.10	3.28E-04	5125	0.10	1.71E-03	7506	-0.10	7.40E-07
171	0.10	6.55E-06	2649	-0.10	1.39E-05	5132	0.10	2.59E-03	7507	-0.20	4.78E-09
174	0.10	3.85E-05	2650	0.10	4.36E-05	5133	-0.30	1.72E-08	7509	0.10	4.87E-08
176	-0.20	3.62E-15	2654	-0.10	4.29E-04	5134	-0.20	1.89E-15	7515	-0.20	6.76E-12
177	0.10	9.41E-06	2664	0.10	1.06E-05	5138	-0.10	2.93E-04	7516	-0.20	1.06E-11
181	0.10	2.01E-08	2665	0.10	9.66E-06	5141	0.20	3.11E-06	7519	-0.10	7.72E-03
186	0.10	2.83E-05	2667	0.20	1.14E-04	5142	0.10	1.15E-03	7527	0.10	3.06E-03
191	-0.20	3.89E-12	2668	-0.10	1.43E-08	5145	-0.10	1.06E-08	7532	-0.10	3.77E-06
193	-0.10	9.45E-03	2670	-0.20	2.83E-05	5148	-0.10	4.90E-06	7533	0.10	4.60E-04
194	0.10	1.30E-09	2682	0.20	4.42E-04	5149	-0.10	2.62E-04	7537	0.10	1.89E-04
200	-0.10	2.46E-04	2684	0.10	3.05E-04	5155	-0.20	2.56E-04	7540	0.10	5.14E-07
201	-0.10	3.45E-04	2685	0.10	7.32E-03	5156	-0.10	8.71E-03	7543	-0.10	5.90E-05
203	-0.10	1.65E-06	2686	0.10	8.31E-03	5159	0.10	5.62E-03	7545	0.10	1.14E-06
206	0.10	9.67E-03	2687	0.10	5.09E-03	5164	-0.10	2.57E-04	7547	0.10	2.63E-05
209	0.10	1.10E-03	2688	-0.10	1.58E-05	5165	0.20	1.03E-06	7548	-0.10	6.29E-06
215	-0.10	3.29E-04	2693	0.10	2.02E-05	5166	-0.10	5.03E-04	7549	-0.20	7.05E-10
217	0.20	2.49E-11	2696	0.20	7.84E-18	5170	0.10	5.17E-04	7559	0.20	3.98E-17
219	0.10	2.65E-07	2705	-0.20	5.24E-17	5172	-0.10	2.68E-06	7560	0.20	7.92E-14
220	-0.10	6.07E-03	2707	-0.10	3.08E-04	5175	-0.10	3.80E-03	7563	-0.20	1.38E-05
221	-0.10	5.18E-05	2712	-0.10	4.06E-07	5176	-0.30	3.74E-06	7564	-0.10	6.52E-05
222	-0.10	3.24E-03	2713	0.10	7.66E-04	5179	-0.20	2.93E-05	7568	0.10	3.40E-04
225	0.10	1.04E-04	2714	-0.10	1.82E-03	5201	-0.10	1.40E-03	7569	0.20	1.26E-09

226	-0.10	8.79E-03	2715	0.10	8.58E-03	5204	-0.10	1.14E-04	7570	-0.10	2.36E-09
231	-0.20	9.77E-09	2721	0.10	6.43E-03	5205	-0.10	9.34E-06	7571	0.10	7.46E-05
238	-0.10	4.62E-04	2722	-0.10	8.72E-07	5207	0.20	4.42E-09	7572	0.10	2.08E-05
248	0.10	4.13E-03	2727	0.10	3.30E-06	5209	0.10	3.21E-05	7575	-0.20	1.22E-05
249	-0.10	4.27E-07	2730	-0.30	1.02E-06	5219	0.10	2.49E-04	7578	-0.10	5.53E-05
250	-0.20	1.42E-13	2731	-0.30	1.07E-06	5220	-0.10	3.49E-06	7579	-0.10	6.89E-04
251	0.10	2.17E-06	2734	-0.10	2.70E-04	5223	0.10	1.20E-04	7581	-0.10	2.78E-05
257	0.20	5.45E-09	2735	0.10	5.56E-06	5230	0.10	4.57E-04	7582	-0.10	1.05E-07
265	-0.20	4.38E-11	2736	0.10	1.21E-03	5235	-0.20	7.18E-08	7584	0.10	1.26E-04
272	-0.10	2.21E-04	2738	-0.10	2.08E-04	5237	0.10	1.34E-03	7588	-0.10	7.25E-03
276	-0.20	5.67E-04	2739	-0.10	4.90E-04	5239	-0.10	2.17E-07	7593	-0.10	7.09E-03
282	0.10	1.47E-04	2742	-0.20	2.43E-03	5241	-0.10	7.89E-04	7594	-0.10	6.53E-04
287	0.10	4.23E-04	2743	0.20	1.62E-08	5247	0.10	1.32E-05	7596	0.10	3.35E-05
288	0.10	3.55E-04	2746	0.10	6.48E-07	5251	-0.10	3.60E-03	7597	-0.10	4.76E-08
293	-0.10	7.11E-05	2750	-0.20	2.87E-03	5252	-0.10	3.10E-03	7601	-0.20	2.89E-08
299	0.10	9.74E-03	2752	-0.20	3.35E-05	5255	0.10	1.42E-03	7603	-0.20	6.49E-08
300	0.10	1.94E-05	2754	0.10	3.71E-10	5258	0.20	6.61E-03	7605	-0.20	6.80E-12
303	0.10	9.06E-06	2756	-0.20	6.01E-15	5261	-0.10	6.86E-04	7606	0.10	3.76E-03
305	0.20	1.27E-09	2760	-0.10	1.71E-04	5262	0.20	4.94E-06	7611	-0.20	9.30E-12
307	0.10	1.09E-09	2761	-0.10	2.71E-04	5267	-0.20	9.84E-03	7623	-0.20	3.50E-04
309	0.10	1.21E-03	2772	-0.10	3.59E-03	5273	-0.10	5.22E-06	7639	-0.10	1.89E-04
312	-0.10	8.20E-05	2773	-0.10	9.76E-03	5274	-0.10	4.67E-06	7644	-0.20	8.84E-12
316	-0.10	7.92E-06	2774	0.10	3.76E-04	5275	-0.20	3.20E-09	7645	-0.20	1.45E-04
318	-0.20	1.17E-13	2778	0.10	6.17E-05	5276	-0.20	9.57E-04	7649	-0.20	1.18E-07
320	-0.10	3.05E-03	2781	0.20	7.76E-10	5278	0.10	7.01E-03	7652	-0.20	5.93E-09
323	-0.10	3.00E-03	2782	0.10	2.07E-11	5285	-0.20	8.27E-09	7658	-0.40	1.04E-05
327	-0.10	6.21E-08	2786	0.10	3.45E-05	5291	0.20	2.28E-05	7659	-0.20	3.01E-08
328	-0.20	4.39E-06	2787	0.10	9.90E-03	5294	0.10	1.76E-05	7660	0.30	6.43E-16
330	-0.30	1.75E-10	2789	0.20	2.87E-05	5302	-0.10	4.38E-09	7665	0.20	1.17E-11
331	-0.10	3.18E-08	2791	0.10	2.58E-03	5306	-0.20	1.19E-05	7668	-0.20	9.62E-07
333	0.20	1.05E-14	2792	-0.10	7.49E-03	5308	-0.20	1.22E-12	7676	-0.10	1.90E-04
335	-0.10	4.63E-05	2793	-0.10	7.00E-04	5317	0.10	3.38E-09	7677	0.10	2.80E-03
336	-0.10	3.77E-03	2796	0.10	7.73E-05	5322	0.20	3.66E-05	7684	-0.10	1.73E-04
337	0.10	1.84E-05	2820	-0.20	3.89E-07	5325	0.10	2.77E-03	7688	-0.10	4.49E-04
343	-0.30	1.79E-04	2821	-0.10	3.79E-03	5329	-0.20	3.43E-05	7689	0.20	1.85E-10
345	-0.10	2.30E-05	2828	0.10	8.08E-04	5333	-0.10	4.41E-05	7690	-0.20	4.93E-17
349	-0.10	1.87E-03	2829	-0.20	7.82E-11	5334	-0.10	7.17E-05	7691	-0.20	2.93E-17
354	-0.10	8.59E-05	2830	-0.20	4.55E-11	5338	0.10	3.79E-03	7693	-0.20	6.17E-07

367	-0.20	1.05E-10	2832	0.10	8.61E-06	5340	-0.30	8.00E-08	7699	0.10	6.38E-03
372	-0.20	2.62E-07	2836	0.10	5.08E-05	5343	0.10	4.34E-05	7701	-0.10	1.04E-07
373	0.20	2.10E-03	2838	-0.20	5.87E-14	5344	0.20	5.49E-20	7708	-0.10	1.16E-03
376	-0.20	6.26E-05	2843	0.20	1.55E-13	5345	0.20	9.06E-20	7721	-0.10	1.04E-04
377	-0.10	1.90E-03	2845	-0.20	6.54E-03	5348	0.10	7.77E-05	7722	-0.30	2.19E-07
381	0.10	3.96E-04	2848	-0.20	3.60E-21	5350	0.20	9.10E-07	7723	-0.20	3.69E-07
382	0.10	6.28E-04	2857	-0.10	4.08E-03	5353	0.20	3.47E-14	7725	0.10	1.82E-09
385	0.10	8.93E-03	2860	0.20	9.12E-06	5355	0.10	8.48E-03	7726	0.10	2.04E-04
386	-0.20	4.24E-03	2867	-0.10	4.05E-03	5356	-0.10	6.27E-04	7727	0.10	1.70E-09
390	-0.10	8.36E-07	2874	-0.20	8.00E-09	5360	0.10	9.37E-04	7729	0.10	3.43E-03
393	0.20	2.34E-10	2878	-0.10	4.91E-07	5367	-0.10	4.63E-03	7733	-0.10	6.72E-04
394	-0.20	3.90E-14	2879	-0.10	3.85E-03	5369	-0.10	4.06E-03	7736	-0.20	3.85E-04
395	-0.10	7.65E-03	2880	-0.20	1.14E-03	5379	-0.20	2.73E-11	7737	-0.10	8.81E-07
396	-0.10	1.90E-04	2882	0.10	2.21E-04	5383	0.10	2.22E-03	7738	0.20	8.16E-15
404	0.10	1.71E-06	2887	-0.20	3.18E-03	5390	0.10	6.32E-04	7745	0.20	1.01E-15
407	-0.10	2.73E-03	2888	-0.10	1.38E-07	5391	-0.10	3.76E-03	7747	0.10	9.12E-05
408	-0.20	5.03E-08	2890	0.20	5.45E-22	5399	-0.20	2.15E-11	7748	-0.20	9.16E-03
410	-0.20	6.02E-21	2891	0.10	4.12E-03	5402	-0.10	4.26E-08	7750	0.10	2.17E-05
411	-0.20	2.93E-21	2892	-0.20	2.20E-04	5405	-0.10	5.86E-03	7751	0.10	1.63E-04
412	-0.20	5.20E-11	2896	-0.10	3.29E-04	5411	-0.10	2.56E-05	7753	0.20	2.54E-08
413	0.10	3.72E-05	2897	-0.10	9.39E-04	5412	-0.10	1.74E-03	7755	0.10	5.16E-09
415	-0.10	2.92E-04	2898	-0.20	3.33E-04	5414	-0.10	7.53E-05	7759	-0.10	1.14E-08
418	0.10	9.08E-03	2899	0.20	1.95E-04	5417	0.20	6.32E-09	7770	0.20	5.31E-07
429	0.10	1.28E-04	2900	0.10	2.64E-06	5419	0.10	1.46E-06	7777	-0.20	7.10E-16
435	-0.10	4.53E-03	2901	-0.20	1.63E-07	5426	-0.10	1.49E-04	7779	-0.20	6.88E-05
443	0.10	3.40E-03	2905	-0.10	1.67E-04	5427	-0.10	1.68E-04	7781	0.10	1.52E-06
444	-0.10	4.25E-04	2907	-0.10	6.89E-08	5429	0.20	6.68E-13	7785	-0.10	1.31E-03
450	0.10	4.36E-04	2909	-0.10	1.82E-03	5431	-0.20	4.83E-03	7789	0.10	1.30E-04
465	-0.20	6.84E-05	2910	0.10	2.66E-05	5432	0.20	9.60E-14	7793	0.10	7.67E-03
467	-0.10	3.30E-03	2914	0.20	1.84E-14	5435	0.10	2.55E-04	7804	0.10	3.98E-03
474	0.10	4.80E-05	2922	0.10	3.01E-03	5443	-0.10	9.77E-03	7807	-0.10	1.53E-04
475	-0.10	8.94E-04	2924	0.20	8.60E-17	5446	0.10	2.94E-09	7808	-0.20	4.00E-04
476	0.30	1.05E-18	2929	-0.10	6.62E-04	5451	-0.10	3.50E-03	7810	-0.10	3.27E-05
478	0.10	7.70E-04	2941	-0.20	8.53E-08	5461	-0.10	3.61E-05	7815	-0.10	1.39E-06
479	-0.40	1.60E-07	2944	-0.10	1.37E-05	5462	-0.10	2.23E-04	7816	-0.10	2.06E-07
484	0.10	1.51E-03	2946	0.10	3.97E-06	5463	-0.10	2.50E-05	7821	0.10	2.29E-03
488	-0.10	2.71E-05	2955	-0.30	5.55E-09	5466	-0.10	4.95E-07	7822	-0.10	3.05E-04

497	-0.20	5.92E-10	2959	-0.20	8.84E-16	5470	-0.20	1.10E-09	7823	0.10	2.90E-06
499	0.20	1.06E-07	2965	0.10	3.98E-04	5473	-0.10	1.37E-06	7826	0.10	3.47E-04
505	0.10	5.42E-08	2968	-0.10	2.36E-03	5477	0.20	4.37E-04	7827	-0.10	5.25E-06
508	0.20	1.76E-13	2971	-0.20	1.15E-09	5480	0.10	3.91E-06	7828	-0.20	1.80E-08
511	-0.10	1.16E-05	2974	-0.20	4.21E-10	5485	-0.20	3.67E-04	7832	0.10	2.84E-05
522	-0.10	6.95E-03	2980	-0.20	1.12E-03	5486	-0.20	3.77E-04	7837	0.10	2.89E-03
525	-0.10	1.50E-05	2995	0.20	1.44E-10	5489	-0.10	2.50E-05	7841	0.10	7.33E-03
526	0.10	7.64E-04	2996	0.10	3.88E-03	5495	0.20	1.14E-06	7843	0.10	3.48E-03
529	-0.10	5.80E-04	2997	0.10	2.56E-06	5499	0.10	2.12E-04	7844	-0.10	5.97E-03
530	-0.20	4.92E-03	2998	-0.20	4.74E-06	5501	0.10	4.42E-03	7854	-0.10	2.33E-03
531	0.20	1.02E-09	3003	0.10	3.38E-04	5502	0.10	8.03E-03	7856	-0.10	8.94E-03
532	0.10	1.21E-07	3008	0.20	7.43E-07	5505	-0.30	1.86E-08	7857	-0.10	2.50E-04
534	-0.20	6.32E-08	3015	0.10	9.87E-03	5509	0.20	3.04E-10	7858	-0.10	1.22E-04
535	0.10	7.80E-03	3026	-0.10	1.02E-04	5511	-0.20	5.65E-09	7859	-0.10	7.85E-03
537	0.10	9.10E-10	3027	-0.20	1.09E-07	5512	-0.10	1.74E-04	7860	-0.20	2.70E-12
539	-0.10	7.13E-05	3031	0.20	2.30E-03	5513	-0.20	7.40E-11	7862	0.10	6.96E-04
540	-0.20	4.43E-13	3033	-0.20	2.66E-06	5518	-0.10	6.76E-04	7863	0.10	6.35E-05
543	0.10	6.36E-03	3034	0.20	2.02E-10	5522	-0.20	1.36E-14	7866	-0.10	4.44E-03
546	-0.10	6.90E-06	3039	0.10	2.96E-04	5527	0.20	1.77E-13	7868	0.10	1.37E-04
550	0.10	2.03E-04	3044	-0.20	2.14E-09	5537	-0.10	1.86E-03	7871	0.30	4.22E-19
553	-0.10	1.80E-06	3048	0.30	1.31E-18	5539	-0.10	3.39E-05	7873	0.10	4.10E-04
559	0.10	6.43E-08	3050	-0.20	4.11E-12	5540	-0.10	1.71E-03	7876	-0.10	2.56E-05
561	-0.20	6.13E-09	3053	0.10	6.72E-04	5546	-0.10	2.56E-04	7877	-0.10	8.33E-04
562	-0.10	4.37E-03	3057	-0.10	3.19E-06	5552	-0.10	2.65E-07	7879	-0.10	2.70E-07
565	0.10	1.26E-05	3062	-0.10	7.29E-06	5554	-0.10	1.73E-04	7885	0.20	8.30E-06
570	-0.10	8.84E-06	3068	0.10	3.06E-03	5565	0.10	4.41E-03	7888	0.10	3.42E-05
571	0.10	2.65E-03	3069	0.10	3.89E-07	5570	0.20	1.09E-17	7889	-0.10	6.70E-09
572	-0.10	6.63E-03	3072	0.20	5.11E-09	5571	0.10	7.64E-03	7891	-0.10	9.95E-03
580	-0.10	1.69E-05	3074	-0.10	9.78E-04	5574	-0.10	3.46E-07	7892	-0.10	5.26E-03
582	0.10	6.82E-03	3075	0.10	9.52E-03	5577	0.10	9.30E-04	7899	-0.10	8.59E-03
588	-0.20	2.16E-07	3077	0.10	3.19E-04	5578	0.10	1.35E-03	7900	-0.20	7.40E-13
592	0.10	9.48E-08	3079	-0.20	3.85E-09	5580	-0.20	3.03E-13	7901	0.10	1.43E-04
594	-0.10	1.40E-04	3084	-0.10	1.17E-05	5583	-0.20	8.58E-04	7908	-0.10	3.33E-03
595	-0.10	1.92E-03	3089	-0.10	8.22E-07	5585	0.10	3.68E-05	7915	0.10	2.35E-06
608	-0.10	5.46E-04	3092	0.20	4.41E-04	5587	-0.10	5.96E-03	7917	-0.20	9.81E-04
614	-0.10	1.08E-04	3094	-0.10	2.35E-03	5590	0.10	1.52E-08	7921	-0.10	4.31E-03
620	0.20	2.90E-10	3100	-0.10	1.11E-05	5592	0.10	1.72E-04	7926	0.10	1.50E-04
629	0.30	3.74E-19	3102	0.20	3.15E-04	5595	-0.20	5.60E-03	7927	0.10	3.49E-08

636	0.10	9.17E-05	3103	-0.10	1.09E-03	5596	-0.10	1.46E-05	7937	0.10	1.68E-06
637	-0.20	1.15E-11	3111	0.10	1.57E-03	5597	-0.10	2.00E-05	7939	0.10	3.23E-06
642	0.10	1.86E-03	3113	-0.20	5.05E-08	5599	-0.10	1.28E-04	7941	0.10	1.85E-04
644	0.20	3.87E-20	3114	0.10	1.78E-03	5601	-0.10	9.18E-03	7942	-0.10	1.23E-03
649	0.10	3.39E-03	3115	-0.10	1.70E-06	5602	-0.20	2.55E-11	7948	-0.10	2.26E-04
652	0.10	8.13E-04	3117	0.20	9.53E-05	5605	-0.30	1.07E-08	7950	-0.20	1.15E-10
653	0.20	1.01E-03	3118	-0.10	5.65E-07	5606	-0.20	1.58E-07	7952	0.10	5.28E-07
657	-0.10	1.33E-08	3119	-0.10	7.97E-03	5608	-0.20	3.26E-14	7956	-0.10	1.39E-04
663	-0.20	7.50E-12	3120	-0.10	4.60E-04	5614	-0.10	2.82E-04	7959	-0.10	1.96E-03
664	-0.20	6.49E-17	3122	0.10	9.95E-03	5617	-0.10	1.86E-03	7964	0.10	2.18E-08
668	-0.20	1.98E-14	3124	-0.20	1.75E-11	5619	0.10	2.89E-07	7965	0.20	4.80E-16
672	0.10	1.17E-09	3129	0.20	1.54E-13	5623	0.10	4.24E-04	7966	-0.20	1.29E-10
678	0.10	7.27E-04	3139	-0.10	1.46E-04	5624	-0.10	8.95E-05	7974	0.10	3.15E-04
681	0.20	1.71E-15	3142	0.10	4.35E-05	5625	-0.10	1.45E-04	7976	-0.10	3.49E-04
688	0.20	9.77E-13	3143	-0.20	5.51E-12	5627	0.20	9.31E-09	7982	0.20	5.44E-13
690	-0.20	3.12E-09	3144	-0.10	3.12E-07	5630	0.10	1.86E-03	8002	-0.10	4.41E-03
696	0.10	1.03E-04	3145	-0.10	2.65E-07	5637	0.10	2.76E-05	8006	-0.10	7.89E-03
697	0.10	2.87E-03	3146	0.10	7.84E-04	5638	0.20	2.09E-09	8007	-0.30	2.15E-03
703	0.20	5.50E-09	3152	0.10	3.10E-04	5639	-0.10	6.81E-08	8009	-0.10	8.04E-04
705	-0.10	4.86E-03	3153	-0.20	9.09E-09	5646	-0.10	4.79E-04	8012	-0.20	8.14E-08
722	0.10	7.01E-04	3158	-0.10	1.86E-04	5647	-0.10	3.86E-05	8013	-0.20	6.93E-05
723	-0.10	1.48E-03	3160	-0.10	1.41E-03	5648	-0.10	7.61E-04	8014	-0.10	4.13E-03
724	-0.10	1.38E-04	3161	-0.10	1.65E-03	5660	0.10	5.87E-03	8015	0.10	6.89E-03
726	-0.10	6.25E-04	3165	-0.20	2.34E-10	5665	0.10	6.92E-04	8018	0.10	1.42E-04
730	-0.20	3.80E-08	3166	-0.10	7.76E-09	5668	-0.20	1.46E-07	8022	-0.10	1.30E-05
736	0.10	5.39E-09	3167	-0.10	8.81E-06	5674	-0.20	5.61E-14	8024	-0.10	1.42E-04
746	-0.30	3.39E-05	3168	0.10	2.77E-03	5678	-0.10	4.53E-03	8025	-0.20	1.33E-06
753	-0.10	2.70E-05	3176	0.10	2.34E-06	5679	-0.10	2.25E-04	8028	-0.10	3.79E-03
760	-0.30	5.27E-06	3178	-0.10	1.01E-03	5682	0.10	1.03E-03	8032	-0.20	7.96E-13
761	0.20	3.68E-08	3180	-0.10	1.02E-06	5688	-0.20	6.04E-06	8037	-0.20	6.75E-05
762	0.10	6.39E-06	3181	-0.10	8.35E-03	5695	0.10	3.80E-03	8040	0.20	7.50E-08
764	-0.10	2.70E-04	3183	-0.20	2.13E-09	5701	0.10	1.14E-04	8044	0.10	1.07E-09
765	-0.20	1.32E-04	3184	0.20	4.55E-12	5703	0.20	1.99E-20	8046	0.20	3.08E-07
766	0.10	6.87E-03	3188	-0.10	5.54E-06	5704	0.10	4.62E-10	8048	-0.10	5.28E-05
769	-0.10	7.24E-09	3189	-0.20	8.04E-12	5705	0.10	7.00E-09	8054	0.10	6.91E-03
770	-0.20	4.00E-03	3190	0.20	2.89E-10	5707	-0.10	6.85E-04	8055	0.20	6.02E-07
776	0.10	8.91E-07	3193	0.10	3.56E-03	5708	-0.30	1.67E-07	8060	-0.10	5.84E-06

779	-0.30	1.61E-14	3194	0.10	2.79E-03	5710	0.10	9.78E-03	8062	-0.10	1.34E-04
781	0.10	9.52E-03	3196	-0.20	2.26E-08	5711	-0.10	1.19E-03	8063	-0.10	6.03E-05
784	-0.20	5.88E-07	3200	0.10	1.60E-03	5713	0.10	4.50E-08	8064	-0.10	1.73E-05
785	0.10	8.41E-04	3206	0.30	2.51E-06	5715	-0.10	9.38E-04	8065	-0.10	1.37E-04
790	0.20	3.77E-09	3217	-0.10	8.80E-04	5737	-0.10	3.19E-04	8071	-0.10	5.90E-05
793	0.20	2.01E-08	3218	-0.20	6.98E-13	5739	0.10	1.62E-03	8072	-0.10	6.38E-05
794	0.10	3.15E-03	3220	0.10	6.21E-04	5741	-0.20	1.05E-13	8075	-0.20	1.36E-13
795	0.10	7.13E-03	3239	-0.10	5.02E-03	5742	-0.20	1.11E-13	8078	0.10	8.27E-03
801	-0.20	2.07E-07	3240	-0.10	5.16E-03	5746	0.10	1.11E-03	8083	-0.10	4.12E-03
808	-0.20	1.57E-15	3241	-0.20	8.20E-08	5748	-0.20	2.93E-03	8084	0.10	1.19E-04
811	0.20	1.99E-05	3245	0.10	4.48E-06	5753	-0.10	2.00E-03	8085	-0.10	1.69E-04
812	0.10	3.24E-04	3248	-0.10	9.26E-04	5754	0.20	4.08E-15	8087	-0.10	3.08E-05
822	-0.20	3.74E-03	3254	-0.10	8.92E-07	5756	0.10	2.68E-07	8089	0.20	4.44E-09
825	-0.20	4.16E-04	3257	0.10	6.15E-04	5760	0.10	1.46E-03	8090	0.10	5.62E-06
827	0.10	3.59E-05	3263	0.10	5.22E-05	5761	0.10	1.19E-05	8094	0.20	1.99E-16
829	0.20	2.02E-09	3266	0.10	1.43E-03	5762	0.10	1.03E-05	8098	0.10	1.29E-03
831	-0.10	8.22E-03	3272	0.10	8.28E-04	5764	0.10	2.98E-04	8100	0.10	1.12E-05
837	-0.10	1.02E-04	3275	-0.10	1.01E-04	5768	-0.10	2.22E-06	8102	-0.10	5.42E-07
840	-0.20	7.63E-08	3276	-0.10	1.21E-03	5772	0.10	6.38E-03	8105	0.20	4.18E-10
844	0.10	5.80E-05	3277	-0.10	8.80E-04	5775	0.10	3.34E-07	8110	-0.10	2.07E-05
846	-0.20	2.69E-06	3281	-0.20	9.22E-06	5777	0.10	1.94E-03	8111	-0.20	2.76E-09
849	0.10	2.14E-05	3283	-0.10	6.68E-04	5784	-0.10	5.79E-05	8118	-0.20	1.53E-06
850	-0.10	4.27E-07	3286	0.10	1.13E-09	5785	-0.30	7.82E-11	8119	-0.10	9.52E-10
854	-0.10	7.41E-03	3289	-0.20	2.91E-06	5788	-0.20	5.69E-08	8127	0.20	1.33E-10
858	-0.10	5.23E-04	3310	0.10	1.19E-05	5791	-0.10	6.00E-04	8133	0.10	3.69E-05
864	0.10	3.40E-07	3312	-0.20	3.49E-15	5792	0.10	4.69E-03	8134	0.10	1.98E-05
865	0.10	2.66E-04	3313	-0.20	4.12E-14	5796	-0.10	3.49E-03	8142	-0.10	3.95E-05
867	-0.10	5.96E-06	3317	0.10	4.59E-04	5798	-0.20	1.52E-07	8143	-0.10	4.65E-05
870	0.20	1.38E-10	3321	0.20	2.54E-16	5800	-0.10	2.63E-05	8145	-0.10	8.29E-03
871	-0.10	5.17E-06	3322	-0.10	9.85E-06	5806	-0.20	1.53E-08	8147	0.20	2.38E-13
873	-0.10	1.29E-04	3328	0.10	1.48E-05	5808	0.20	1.14E-08	8149	0.10	4.64E-06
875	-0.10	8.92E-06	3333	0.10	2.01E-05	5809	-0.20	5.04E-06	8150	0.30	1.19E-12
876	-0.10	3.06E-04	3334	-0.10	4.30E-05	5811	-0.10	3.04E-03	8160	-0.10	3.70E-03
879	-0.10	1.13E-03	3338	0.10	2.41E-03	5812	0.10	9.43E-03	8161	0.20	1.50E-14
882	-0.20	3.01E-08	3341	-0.20	1.26E-10	5815	-0.10	2.95E-03	8163	-0.10	4.60E-09
888	-0.10	4.42E-03	3343	-0.10	2.82E-03	5816	-0.20	1.78E-05	8166	0.10	1.13E-07
893	0.10	2.11E-05	3344	-0.10	3.87E-05	5817	0.10	4.59E-03	8167	-0.10	5.29E-05

894	-0.20	4.07E-04	3353	0.20	4.87E-14	5819	-0.20	3.85E-10	8168	-0.20	1.04E-12
900	0.10	6.40E-08	3357	-0.10	2.69E-04	5821	-0.10	5.48E-03	8173	0.20	2.40E-10
901	-0.10	3.68E-08	3359	-0.10	1.01E-07	5823	-0.20	3.52E-05	8184	-0.10	4.02E-04
910	-0.20	2.03E-03	3367	0.10	5.00E-04	5824	-0.20	1.75E-05	8188	0.10	4.65E-06
912	0.10	7.82E-04	3371	0.20	1.08E-19	5825	-0.20	8.97E-11	8189	-0.10	8.38E-06
916	0.10	5.04E-04	3372	-0.10	4.09E-05	5828	-0.10	3.08E-05	8192	0.20	2.60E-17
919	0.20	4.24E-07	3374	-0.10	3.59E-04	5830	-0.20	3.33E-03	8193	0.20	1.19E-08
928	0.20	4.77E-14	3379	-0.20	4.17E-05	5831	-0.10	5.66E-04	8201	-0.10	1.13E-03
934	-0.10	3.25E-03	3382	0.10	1.62E-04	5838	-0.20	2.91E-14	8206	-0.20	1.25E-11
939	0.20	7.61E-12	3391	0.10	4.27E-04	5839	-0.20	2.23E-04	8212	-0.20	2.90E-09
944	-0.10	2.73E-03	3392	0.10	2.73E-04	5840	0.10	2.13E-07	8219	0.20	6.90E-07
945	0.10	3.55E-07	3395	0.20	2.03E-06	5856	0.20	4.48E-21	8232	-0.10	6.41E-03
948	-0.10	1.01E-05	3396	-0.10	1.02E-04	5868	0.20	6.64E-14	8233	-0.20	4.60E-13
949	-0.20	5.10E-12	3406	-0.10	3.88E-03	5874	0.10	7.19E-03	8235	-0.20	1.06E-14
954	0.10	1.79E-08	3407	0.10	1.17E-09	5875	-0.20	1.67E-10	8237	0.20	6.54E-07
957	0.10	1.53E-03	3415	0.10	6.32E-03	5876	-0.10	5.64E-05	8238	0.20	3.99E-07
958	0.10	1.32E-03	3417	0.10	9.51E-08	5877	0.10	3.37E-03	8239	0.10	6.98E-05
960	-0.10	1.45E-07	3420	0.20	1.93E-12	5880	0.10	8.23E-03	8240	-0.20	2.54E-09
962	0.20	9.96E-11	3423	0.10	1.89E-04	5883	-0.10	1.10E-03	8243	-0.20	2.60E-08
963	-0.30	5.64E-09	3428	-0.10	2.67E-03	5884	-0.10	1.00E-03	8244	-0.10	5.64E-09
964	0.10	8.38E-04	3433	-0.10	7.29E-03	5887	-0.20	1.17E-05	8246	-0.20	2.57E-04
974	-0.10	7.88E-08	3435	-0.10	6.84E-03	5890	-0.10	9.01E-03	8250	0.10	8.73E-03
975	0.10	2.80E-03	3438	-0.10	2.11E-09	5892	-0.10	1.46E-04	8255	-0.10	3.60E-06
979	0.10	7.13E-03	3439	-0.20	4.51E-06	5896	0.10	2.66E-05	8259	0.10	3.50E-03
984	0.20	2.27E-10	3442	-0.10	1.27E-03	5897	-0.10	1.34E-08	8260	0.10	3.31E-08
992	-0.10	2.55E-04	3444	-0.20	1.85E-06	5898	-0.20	3.82E-05	8261	0.30	8.62E-19
994	-0.10	1.47E-06	3446	0.10	3.21E-04	5901	-0.10	1.75E-04	8264	-0.15	1.09E-04
998	0.10	5.12E-08	3448	0.10	9.57E-05	5906	0.20	1.05E-08	8267	-0.15	1.95E-03
1009	-0.10	3.75E-04	3451	0.10	4.12E-03	5908	0.10	1.60E-04	8274	0.09	3.06E-04
1014	0.10	2.63E-03	3460	-0.10	2.74E-03	5910	-0.20	2.46E-06	8276	-0.21	1.18E-17
1016	-0.20	5.16E-16	3463	-0.10	3.17E-05	5914	0.30	3.37E-25	8280	-0.11	2.76E-06
1021	0.10	3.91E-05	3466	0.10	8.39E-03	5916	0.20	3.11E-07	8282	-0.08	4.63E-03
1028	-0.20	3.05E-03	3470	0.10	1.17E-03	5921	-0.20	1.14E-05	8285	0.08	6.57E-04
1029	-0.10	3.78E-05	3479	-0.10	6.43E-04	5922	-0.20	3.56E-05	8287	-0.11	1.25E-06
1033	0.10	2.63E-04	3482	-0.10	1.75E-08	5924	-0.10	4.57E-03	8289	-0.07	5.68E-03
1035	-0.10	1.32E-06	3483	0.10	9.52E-04	5927	0.10	6.36E-06	8300	-0.14	5.31E-06
1037	-0.10	2.21E-03	3485	-0.20	2.76E-17	5929	-0.20	9.42E-08	8309	-0.14	6.48E-06
1042	0.10	3.37E-03	3489	0.10	7.30E-03	5930	-0.20	2.39E-17	8312	0.11	1.64E-05

1044	0.10	9.30E-04	3491	0.10	6.74E-09	5931	0.10	8.15E-05	8318	-0.07	3.28E-03
1045	-0.10	4.02E-03	3492	0.10	1.60E-03	5933	-0.10	2.38E-04	8321	-0.13	4.62E-04
1049	-0.10	4.63E-03	3497	-0.10	3.56E-04	5942	0.20	2.36E-07	8323	-0.08	5.07E-03
1050	-0.10	5.19E-03	3499	0.10	7.07E-03	5948	-0.10	5.66E-03	8324	0.07	6.34E-03
1056	0.10	4.56E-05	3500	-0.10	5.10E-03	5952	-0.10	4.58E-04	8332	-0.17	2.79E-07
1057	0.10	2.08E-03	3503	-0.20	4.98E-09	5953	-0.10	8.49E-03	8333	0.13	6.03E-07
1063	0.10	1.73E-03	3510	-0.10	9.01E-03	5955	0.10	7.15E-06	8336	-0.11	1.94E-04
1068	-0.10	1.06E-05	3514	-0.10	7.64E-07	5956	-0.30	7.41E-07	8340	-0.18	1.72E-06
1069	-0.10	7.93E-05	3515	0.10	4.30E-04	5957	-0.10	1.64E-04	8343	0.13	1.67E-06
1072	0.10	1.49E-03	3523	0.10	1.65E-07	5959	-0.20	3.93E-03	8345	0.10	7.71E-05
1075	-0.30	1.88E-07	3539	0.10	1.83E-07	5966	0.10	2.24E-09	8346	-0.19	7.86E-04
1084	0.10	2.54E-06	3548	-0.20	1.58E-03	5968	-0.10	1.86E-09	8348	0.12	1.62E-04
1085	0.10	4.29E-04	3550	0.10	2.64E-06	5969	-0.10	4.72E-09	8349	-0.14	7.01E-07
1087	0.10	5.47E-05	3554	0.10	1.08E-10	5971	0.10	7.07E-09	8351	0.06	6.09E-03
1094	0.10	2.20E-07	3557	-0.10	8.71E-03	5972	0.10	1.66E-03	8352	-0.10	6.10E-05
1097	-0.10	1.03E-05	3558	-0.20	6.77E-10	5973	0.10	2.41E-06	8353	-0.15	8.71E-12
1098	-0.10	1.12E-03	3559	-0.30	2.64E-06	5979	0.20	2.25E-07	8354	-0.14	2.93E-04
1100	-0.10	4.11E-04	3568	0.10	3.58E-08	5989	0.10	5.07E-07	8358	-0.18	4.29E-10
1105	-0.10	9.34E-04	3569	0.10	7.63E-06	5990	-0.10	6.41E-03	8361	0.11	3.94E-06
1110	-0.10	3.70E-08	3575	-0.20	7.89E-03	5992	-0.10	2.31E-08	8362	-0.15	3.45E-05
1113	-0.10	5.69E-04	3578	0.10	4.52E-03	5993	-0.10	1.96E-04	8363	-0.11	1.47E-03
1125	-0.10	2.06E-04	3579	0.10	4.73E-06	5994	0.20	9.13E-12	8367	-0.07	4.31E-04
1127	-0.10	4.71E-03	3583	-0.10	1.85E-03	5995	0.20	4.39E-12	8368	-0.07	4.29E-03
1128	-0.10	5.50E-03	3585	-0.10	7.49E-05	5996	0.20	1.25E-11	8375	-0.16	1.32E-03
1129	-0.10	4.10E-03	3588	-0.10	2.02E-03	5997	0.20	1.92E-11	8377	0.13	1.97E-07
1130	-0.20	8.42E-04	3589	0.10	7.64E-03	5998	-0.10	4.85E-09	8384	-0.18	4.89E-04
1138	-0.10	8.66E-03	3590	-0.10	4.36E-07	5999	-0.10	4.96E-06	8387	0.16	5.18E-07
1140	0.10	6.77E-07	3591	0.20	4.39E-04	6013	-0.20	2.93E-03	8388	0.11	3.48E-06
1142	-0.20	2.05E-08	3592	0.10	5.32E-06	6015	-0.10	2.92E-06	8389	-0.22	3.43E-04
1152	0.20	8.29E-06	3593	-0.20	6.04E-14	6016	-0.10	5.13E-06	8391	-0.14	1.11E-08
1154	-0.10	3.00E-04	3594	0.20	5.01E-11	6024	0.10	5.31E-06	8392	0.11	2.30E-04
1157	-0.10	2.17E-03	3596	-0.10	5.27E-03	6031	0.10	4.64E-09	8395	-0.11	5.33E-06
1158	0.10	1.51E-03	3599	0.10	1.88E-05	6033	-0.20	5.89E-06	8397	0.10	8.39E-05
1161	0.10	3.16E-03	3601	-0.10	1.27E-04	6035	0.10	1.67E-04	8398	0.16	1.06E-10
1163	0.10	9.92E-04	3602	0.10	8.89E-03	6036	-0.20	1.43E-12	8403	0.20	7.20E-13
1164	0.10	3.13E-04	3613	0.10	4.92E-05	6037	-0.20	3.38E-09	8411	-0.13	1.15E-06
1167	0.10	2.76E-05	3614	-0.10	7.67E-04	6052	-0.10	2.18E-07	8412	-0.13	1.06E-06

1170	-0.10	2.31E-09	3615	0.10	1.41E-05	6058	-0.10	7.96E-03	8413	0.14	9.90E-09
1171	0.10	3.99E-08	3617	0.20	1.50E-05	6068	0.10	1.19E-06	8420	0.08	9.43E-04
1172	-0.10	4.64E-04	3618	0.20	1.42E-16	6069	0.00	5.95E-03	8421	-0.17	7.02E-10
1174	-0.20	1.09E-06	3621	-0.20	2.09E-05	6075	-0.10	2.42E-04	8423	-0.16	7.11E-09
1178	0.10	1.12E-04	3625	0.10	2.55E-16	6077	0.10	9.38E-04	8425	-0.11	2.60E-05
1183	0.10	1.54E-07	3631	-0.10	6.56E-06	6078	0.10	1.42E-03	8433	-0.12	4.17E-06
1185	0.20	1.20E-12	3636	-0.20	6.82E-08	6081	0.10	7.00E-03	8434	-0.22	8.64E-04
1186	0.10	3.52E-08	3647	-0.10	3.74E-04	6086	-0.10	8.43E-07	8439	-0.09	2.46E-04
1187	0.10	1.18E-09	3649	0.10	2.88E-03	6087	-0.10	1.05E-05	8446	-0.07	4.04E-03
1188	0.20	7.60E-10	3652	-0.20	5.95E-03	6088	-0.10	1.12E-05	8451	-0.15	3.37E-07
1195	0.20	5.91E-16	3653	-0.10	4.46E-03	6089	-0.10	1.83E-03	8454	-0.25	5.21E-21
1201	-0.10	4.34E-05	3655	-0.10	2.91E-04	6092	-0.10	3.43E-03	8455	0.11	5.84E-06
1202	0.10	4.35E-03	3658	0.10	1.47E-04	6093	-0.10	1.67E-03	8457	0.16	1.70E-04
1203	0.10	6.13E-03	3661	-0.20	2.67E-12	6094	0.10	1.38E-04	8463	-0.16	3.15E-03
1213	0.10	3.04E-08	3667	0.10	2.05E-04	6095	0.20	2.77E-03	8464	0.07	4.78E-03
1214	0.10	2.15E-03	3668	0.10	5.13E-10	6102	-0.10	3.01E-04	8466	0.19	4.60E-12
1219	-0.20	4.44E-04	3673	0.20	2.97E-07	6103	-0.20	1.41E-12	8467	0.16	5.23E-12
1229	-0.20	1.09E-10	3683	-0.10	3.89E-04	6104	-0.10	2.59E-09	8468	0.14	3.62E-03
1230	0.20	1.94E-04	3684	0.10	8.12E-03	6105	0.20	7.29E-14	8470	-0.08	1.47E-03
1238	0.10	6.47E-04	3690	0.10	1.20E-04	6110	-0.20	4.05E-06	8476	-0.10	3.65E-05
1239	-0.20	7.06E-12	3695	-0.10	3.02E-03	6112	-0.10	1.30E-04	8477	-0.10	3.02E-05
1241	0.20	9.52E-05	3697	-0.10	3.54E-04	6117	-0.10	1.77E-05	8478	-0.10	4.80E-05
1242	0.10	6.40E-03	3699	-0.10	6.55E-03	6118	0.10	1.29E-05	8484	-0.17	2.14E-06
1244	0.20	1.45E-19	3700	0.20	3.13E-09	6127	-0.10	1.68E-03	8486	0.07	5.07E-03
1251	0.10	4.17E-04	3704	0.20	5.05E-07	6131	0.10	7.50E-05	8488	0.12	2.26E-09
1252	-0.20	1.13E-08	3706	-0.20	2.54E-09	6134	-0.10	4.56E-06	8489	-0.16	2.49E-07
1254	-0.20	1.02E-06	3709	-0.10	4.10E-05	6135	-0.20	3.35E-07	8490	-0.16	2.58E-03
1256	0.10	2.11E-06	3710	0.10	3.08E-03	6136	-0.10	3.99E-08	8501	0.15	3.07E-05
1260	0.10	8.97E-05	3711	0.10	5.69E-04	6137	-0.10	5.56E-08	8503	-0.13	1.61E-04
1263	-0.10	9.59E-06	3713	0.10	9.81E-06	6141	0.10	6.32E-04	8508	-0.14	1.84E-08
1266	-0.10	1.88E-04	3714	-0.10	2.14E-03	6142	-0.10	6.96E-06	8515	0.08	7.49E-04
1272	-0.20	1.48E-05	3722	0.20	6.08E-10	6143	-0.10	8.57E-04	8517	0.12	7.93E-04
1275	-0.10	1.68E-03	3723	-0.20	1.67E-04	6147	-0.10	4.84E-03	8520	-0.22	1.56E-04
1276	-0.10	7.25E-05	3727	-0.10	9.18E-05	6152	0.10	3.37E-08	8522	0.07	7.85E-03
1278	-0.10	1.47E-04	3728	0.20	3.83E-09	6158	-0.10	3.42E-08	8523	0.07	9.85E-03
1281	0.20	4.49E-09	3729	-0.20	3.80E-11	6160	0.10	3.64E-04	8529	-0.14	4.02E-04
1287	-0.20	2.03E-10	3734	0.20	1.67E-09	6161	-0.10	5.66E-03	8539	0.13	1.97E-07
1291	0.10	5.02E-03	3735	-0.10	2.27E-05	6172	0.10	1.91E-08	8541	0.16	9.08E-05

1294	0.10	1.45E-03	3738	-0.10	3.37E-04	6177	0.10	3.08E-07	8547	-0.21	8.44E-06
1297	-0.20	1.62E-05	3740	-0.10	6.47E-06	6180	-0.10	4.85E-03	8554	-0.12	1.45E-03
1298	0.10	1.36E-03	3742	-0.10	1.02E-04	6181	0.10	5.30E-05	8557	-0.13	5.65E-03
1299	-0.20	1.28E-05	3749	-0.20	1.41E-11	6184	-0.10	7.01E-03	8559	0.11	3.68E-06
1305	0.20	3.27E-11	3750	-0.10	1.96E-03	6188	0.10	1.57E-03	8560	0.07	3.19E-03
1306	-0.10	6.92E-04	3752	-0.10	2.03E-03	6192	-0.10	9.09E-03	8563	0.14	1.12E-05
1308	-0.10	2.43E-04	3753	-0.10	5.78E-07	6194	0.10	1.72E-03	8566	0.06	9.79E-03
1319	0.10	2.48E-04	3759	-0.20	2.59E-10	6203	0.10	1.14E-06	8576	-0.18	9.48E-11
1327	-0.10	7.55E-06	3760	0.10	2.76E-10	6204	-0.20	6.63E-10	8577	0.12	2.26E-06
1329	-0.10	2.80E-08	3762	-0.10	1.81E-03	6214	0.10	1.06E-06	8580	-0.11	3.71E-04
1333	0.20	2.72E-06	3763	0.10	1.78E-03	6219	0.20	4.85E-10	8585	0.10	6.74E-03
1336	0.10	7.24E-03	3768	-0.20	5.94E-04	6221	0.10	1.94E-04	8587	-0.17	4.09E-04
1339	-0.10	8.40E-08	3770	0.10	9.24E-05	6229	-0.10	1.92E-05	8589	-0.19	2.82E-10
1346	-0.20	1.15E-09	3772	-0.20	9.11E-09	6230	0.10	9.45E-07	8592	-0.14	1.11E-05
1354	-0.10	9.41E-06	3776	-0.20	1.47E-10	6234	-0.10	3.36E-03	8593	-0.14	1.01E-07
1364	0.20	1.71E-16	3777	-0.20	1.14E-04	6239	-0.10	2.83E-07	8604	-0.08	1.00E-03
1366	0.10	2.27E-05	3780	0.20	7.94E-11	6240	-0.10	2.29E-04	8606	0.08	8.33E-03
1370	-0.40	1.61E-11	3788	-0.20	6.59E-10	6242	-0.10	4.77E-04	8607	-0.10	3.21E-05
1373	0.10	1.85E-03	3789	-0.10	4.02E-03	6245	0.20	1.93E-11	8608	-0.14	3.26E-04
1375	-0.10	3.81E-03	3792	-0.10	1.89E-03	6248	-0.10	1.62E-03	8611	-0.14	5.43E-09
1380	-0.20	3.21E-07	3793	-0.10	1.83E-06	6249	0.20	3.07E-17	8613	-0.13	2.59E-06
1381	-0.20	1.40E-06	3796	-0.10	1.54E-04	6250	-0.20	1.02E-17	8616	-0.15	4.13E-09
1385	-0.10	4.91E-07	3797	-0.10	1.49E-04	6253	-0.20	1.07E-11	8647	-0.09	1.48E-03
1389	0.20	4.57E-09	3801	0.10	3.74E-05	6258	-0.20	1.27E-09	8650	-0.10	5.50E-03
1390	-0.30	1.56E-08	3804	0.10	3.62E-05	6261	0.10	3.77E-07	8651	-0.13	2.34E-04
1392	-0.10	5.62E-04	3805	0.10	6.62E-06	6264	-0.10	7.37E-04	8654	0.12	2.99E-04
1393	-0.20	2.11E-21	3808	-0.10	1.95E-03	6267	-0.20	7.94E-08	8656	0.13	2.12E-06
1396	-0.10	2.23E-08	3810	-0.10	5.97E-04	6271	-0.10	3.62E-03	8664	0.09	2.47E-03
1397	0.20	4.40E-11	3812	-0.20	4.55E-14	6272	-0.10	1.35E-05	8668	-0.12	8.82E-05
1401	-0.10	1.82E-03	3823	-0.10	2.99E-04	6280	-0.10	5.19E-04	8670	-0.07	6.71E-03
1402	-0.10	1.31E-05	3842	-0.10	1.18E-03	6284	0.10	3.85E-05	8674	-0.05	3.62E-03
1404	0.10	1.86E-05	3858	-0.10	5.39E-03	6285	0.10	4.36E-11	8676	-0.15	6.91E-09
1406	-0.20	1.80E-13	3859	-0.20	1.29E-21	6294	-0.10	3.78E-03	8679	0.07	4.88E-03
1409	0.10	1.25E-05	3862	0.10	6.03E-07	6297	0.10	4.49E-05	8683	-0.17	1.87E-06
1410	-0.20	2.84E-09	3865	-0.10	1.67E-07	6303	0.10	6.75E-03	8686	0.06	8.84E-03
1411	0.10	2.81E-06	3866	0.10	2.10E-04	6304	0.10	5.18E-03	8688	-0.08	2.05E-03
1419	-0.10	3.84E-03	3871	0.10	2.29E-03	6305	0.10	2.55E-04	8689	0.13	5.14E-07

1420	-0.10	3.67E-03	3876	0.10	2.26E-03	6307	-0.10	3.55E-04	8690	-0.16	1.10E-06
1429	-0.10	2.67E-05	3878	-0.10	1.50E-06	6310	0.20	7.51E-11	8693	-0.24	1.61E-14
1430	-0.10	1.03E-05	3879	-0.20	4.58E-09	6315	0.10	7.71E-03	8694	0.16	1.33E-09
1431	0.10	3.68E-03	3883	0.10	2.90E-03	6318	-0.20	6.49E-09	8699	0.11	3.78E-06
1433	0.10	6.64E-03	3884	-0.20	6.21E-17	6321	0.10	8.35E-04	8700	0.26	4.06E-13
1434	0.10	3.33E-03	3886	0.20	3.31E-17	6323	0.10	8.29E-03	8703	0.16	4.80E-06
1435	-0.10	5.54E-04	3889	-0.20	3.99E-03	6325	0.10	5.86E-03	8706	-0.17	2.53E-04
1436	-0.20	6.90E-09	3896	-0.10	7.52E-03	6328	-0.10	4.79E-04	8707	-0.29	3.47E-08
1439	0.10	2.19E-08	3900	-0.10	8.98E-06	6330	-0.10	1.19E-03	8708	-0.29	3.93E-08
1443	0.10	2.54E-07	3902	-0.10	2.42E-05	6333	0.10	4.36E-04	8710	-0.22	1.51E-10
1444	0.10	1.99E-07	3910	0.10	8.65E-07	6337	-0.20	2.02E-14	8712	-0.09	1.07E-03
1448	-0.10	3.90E-06	3914	-0.20	3.29E-15	6340	-0.20	2.58E-08	8715	-0.11	6.70E-06
1449	0.10	3.13E-03	3916	0.10	2.74E-03	6343	0.10	2.96E-03	8720	-0.16	1.69E-12
1450	-0.10	9.25E-03	3917	0.10	2.14E-03	6349	-0.10	3.20E-03	8724	0.13	7.43E-05
1451	0.20	9.72E-12	3922	-0.20	1.71E-10	6351	-0.10	4.55E-06	8728	-0.27	2.08E-19
1455	0.10	1.01E-03	3924	0.10	5.43E-03	6352	-0.20	4.17E-04	8731	0.09	3.04E-04
1456	-0.10	8.01E-04	3925	0.10	4.09E-04	6356	0.10	6.17E-04	8733	-0.20	3.59E-12
1464	0.20	8.72E-19	3926	0.10	5.01E-03	6358	0.10	4.51E-03	8740	0.15	8.51E-15
1465	-0.10	7.54E-06	3927	-0.10	3.66E-08	6359	-0.10	2.55E-05	8744	-0.10	7.55E-04
1466	-0.10	2.09E-06	3928	-0.10	8.64E-03	6360	-0.20	9.66E-03	8749	0.14	2.33E-07
1467	0.20	4.37E-10	3930	-0.10	1.08E-03	6361	0.10	5.07E-03	8754	0.12	6.66E-04
1472	-0.10	4.05E-03	3937	-0.10	3.37E-08	6365	-0.10	1.26E-03	8756	0.10	1.12E-04
1475	-0.10	4.67E-06	3938	0.20	2.56E-06	6366	-0.10	3.20E-04	8757	-0.16	1.86E-09
1478	0.10	5.75E-04	3940	0.10	8.76E-03	6373	0.20	7.07E-11	8759	-0.18	6.72E-04
1490	0.10	2.51E-03	3946	0.20	2.22E-18	6375	0.10	6.28E-05	8760	0.16	3.18E-04
1491	0.20	4.48E-13	3947	-0.10	7.23E-03	6376	0.20	1.05E-16	8767	-0.18	1.25E-08
1495	0.10	5.22E-04	3953	-0.20	1.59E-08	6377	0.10	1.25E-05	8773	-0.18	2.27E-12
1498	-0.20	3.91E-15	3956	-0.10	1.43E-04	6379	-0.10	5.05E-04	8774	0.15	5.76E-10
1505	0.20	1.46E-07	3957	-0.10	2.18E-03	6381	0.10	6.17E-10	8781	0.09	9.13E-04
1506	-0.10	2.32E-04	3959	0.10	6.85E-03	6382	-0.10	1.18E-03	8784	-0.18	2.80E-04
1507	0.30	7.93E-10	3972	0.20	5.51E-12	6385	-0.20	7.37E-12	8792	-0.25	4.72E-09
1510	-0.10	2.13E-03	3978	-0.10	3.17E-04	6387	-0.10	8.14E-05	8793	0.11	1.15E-04
1512	-0.20	4.00E-03	3985	-0.20	5.69E-04	6388	-0.10	2.75E-05	8795	-0.09	1.66E-05
1524	0.10	2.73E-06	3994	0.10	1.64E-03	6394	0.10	1.63E-07	8796	0.20	3.94E-04
1526	-0.10	4.02E-04	4001	0.20	1.82E-04	6397	-0.10	6.49E-04	8797	-0.10	3.34E-06
1527	-0.10	2.18E-08	4002	-0.10	2.84E-05	6398	-0.20	1.78E-08	8800	0.20	1.22E-07
1528	-0.10	8.35E-03	4011	0.10	9.84E-05	6402	-0.10	4.49E-03	8804	0.10	1.10E-05

1529	-0.10	3.86E-03	4014	-0.10	6.74E-03	6408	0.20	1.51E-11	8805	-0.15	1.41E-10
1530	-0.20	2.20E-15	4015	0.10	3.31E-06	6411	-0.10	1.49E-04	8808	0.08	8.67E-04
1533	0.10	1.74E-07	4017	-0.10	6.95E-04	6415	-0.10	8.08E-06	8810	-0.09	2.40E-04
1545	0.10	8.35E-04	4021	0.20	1.33E-04	6416	0.10	8.01E-03	8820	-0.07	6.96E-03
1548	-0.10	1.48E-04	4022	-0.20	1.33E-07	6417	0.10	2.93E-07	8822	-0.08	2.29E-03
1558	0.10	5.35E-07	4025	0.20	7.06E-13	6420	-0.10	5.50E-06	8824	-0.18	3.30E-06
1560	0.20	1.35E-10	4027	0.10	3.54E-03	6431	-0.30	8.83E-06	8825	-0.11	2.57E-05
1561	-0.10	7.16E-03	4028	-0.10	1.48E-03	6434	0.10	2.02E-05	8834	0.19	3.96E-11
1575	-0.10	2.04E-03	4030	-0.10	8.66E-03	6436	0.20	5.35E-12	8838	-0.12	2.00E-04
1580	0.10	1.84E-06	4031	-0.10	4.87E-03	6437	0.10	7.80E-05	8839	-0.33	1.30E-14
1581	0.10	1.61E-04	4032	0.10	1.04E-08	6438	0.10	3.13E-05	8846	-0.11	2.76E-03
1585	-0.10	1.09E-03	4035	-0.10	3.95E-07	6440	0.10	6.94E-05	8848	-0.18	9.09E-12
1587	-0.20	1.65E-04	4041	-0.10	7.76E-03	6441	0.20	9.03E-03	8849	-0.32	5.14E-11
1588	-0.20	6.51E-11	4043	0.10	1.49E-03	6443	-0.10	6.19E-03	8854	-0.19	1.64E-05
1599	0.30	1.94E-34	4044	-0.10	1.45E-05	6459	0.10	3.75E-04	8855	-0.10	2.43E-04
1601	-0.10	9.27E-06	4045	0.10	5.34E-07	6461	-0.10	1.77E-04	8858	-0.09	6.35E-04
1604	-0.10	4.71E-03	4050	0.10	1.41E-05	6463	-0.10	1.09E-03	8860	-0.22	9.03E-04
1607	-0.20	5.22E-05	4051	-0.10	1.41E-08	6464	-0.10	2.89E-05	8864	-0.18	1.30E-03
1612	0.20	4.72E-10	4052	-0.20	2.96E-11	6468	-0.10	1.39E-03	8865	-0.13	4.06E-06
1614	0.20	5.08E-11	4056	0.10	9.31E-05	6469	0.10	1.06E-04	8867	0.16	4.69E-09
1615	-0.20	2.61E-04	4060	0.20	6.81E-10	6477	0.10	1.97E-04	8870	-0.11	8.73E-05
1616	0.10	1.55E-08	4061	0.10	1.24E-09	6478	0.10	2.54E-03	8875	0.09	3.42E-04
1618	0.10	5.45E-07	4064	0.10	8.27E-04	6485	-0.10	4.32E-05	8883	-0.22	1.39E-03
1621	-0.10	3.90E-03	4065	-0.10	6.73E-03	6486	-0.10	2.96E-05	8888	0.07	3.09E-03
1622	0.10	1.46E-06	4070	-0.10	2.10E-08	6487	0.10	1.69E-04	8890	-0.07	3.36E-03
1623	-0.10	1.31E-08	4075	-0.10	1.39E-08	6493	-0.20	5.27E-04	8893	0.09	2.77E-04
1625	0.20	2.44E-12	4076	-0.20	5.88E-07	6498	-0.10	3.24E-08	8898	-0.13	1.49E-08
1630	-0.10	3.96E-04	4077	-0.10	6.29E-05	6504	-0.10	3.03E-04	8899	-0.11	6.80E-06
1635	-0.10	1.38E-06	4079	0.10	2.69E-04	6505	-0.10	6.71E-07	8902	0.12	9.58E-04
1636	-0.20	5.11E-05	4080	-0.10	1.23E-03	6509	-0.10	6.72E-03	8903	0.12	7.25E-04
1637	0.20	6.50E-12	4081	0.10	6.04E-08	6515	0.20	1.82E-04	8904	-0.10	1.55E-03
1640	-0.20	2.05E-07	4084	0.20	3.46E-17	6520	0.10	9.65E-04	8908	-0.17	1.46E-12
1642	0.20	7.33E-09	4088	-0.10	1.61E-05	6521	-0.10	2.43E-04	8910	0.17	2.09E-12
1644	-0.30	4.83E-12	4096	0.20	8.99E-09	6523	-0.10	1.16E-11	8911	0.16	9.42E-11
1650	-0.10	7.46E-04	4097	-0.10	4.05E-03	6530	-0.10	1.84E-04	8913	0.07	6.52E-03
1653	0.20	4.75E-26	4098	-0.10	7.74E-03	6531	0.20	3.85E-08	8914	0.12	3.20E-04
1663	-0.10	1.88E-03	4106	-0.10	2.94E-05	6532	-0.10	7.90E-04	8919	-0.12	2.49E-05
1676	-0.10	6.54E-05	4107	0.10	6.43E-04	6535	-0.10	1.24E-05	8922	-0.08	1.52E-03

1677	0.20	3.49E-14	4115	0.10	3.55E-03	6537	-0.10	3.83E-03	8928	-0.15	1.52E-07
1681	0.20	2.86E-16	4117	0.10	3.26E-04	6539	-0.10	3.59E-04	8938	0.07	1.03E-03
1684	0.10	1.26E-03	4120	-0.20	4.08E-13	6540	-0.20	1.38E-13	8941	-0.20	3.06E-04
1686	0.10	6.38E-07	4121	-0.20	5.43E-14	6542	0.10	7.51E-04	8952	0.21	2.36E-13
1690	-0.10	1.58E-03	4122	-0.20	5.35E-08	6544	0.10	2.72E-04	8954	0.20	1.45E-15
1691	0.10	7.46E-03	4131	-0.20	8.62E-04	6545	0.10	7.35E-03	8955	0.08	1.05E-03
1696	-0.20	2.26E-03	4134	-0.10	8.16E-09	6550	-0.10	5.28E-04	8957	0.17	1.62E-09
1705	-0.20	1.22E-04	4135	-0.10	2.09E-03	6555	0.10	2.17E-05	8958	0.08	4.80E-04
1711	0.10	9.32E-03	4137	0.10	3.04E-03	6557	0.00	3.74E-03	8959	-0.10	4.63E-03
1722	0.10	1.30E-06	4149	-0.10	9.50E-04	6561	-0.30	2.52E-05	8960	-0.14	4.40E-09
1729	0.10	8.42E-03	4155	0.20	1.29E-09	6564	0.10	5.63E-06	8963	-0.16	3.73E-05
1730	0.20	5.42E-12	4156	0.20	7.21E-10	6565	0.10	1.52E-03	8965	-0.10	1.78E-04
1731	-0.10	4.69E-07	4159	0.10	2.69E-06	6568	-0.10	9.18E-06	8970	-0.09	1.20E-05
1737	0.10	4.73E-06	4165	-0.10	2.26E-05	6571	-0.20	1.80E-05	8971	0.10	2.28E-06
1743	-0.20	3.81E-05	4166	-0.10	2.37E-09	6572	-0.20	1.11E-07	8980	-0.13	2.53E-07
1744	0.20	2.07E-10	4169	-0.10	9.39E-06	6576	0.20	4.64E-04	8981	-0.13	9.31E-07
1745	0.20	7.75E-11	4170	0.10	1.90E-06	6582	0.10	1.38E-08	8985	-0.26	1.20E-04
1751	0.20	8.05E-25	4176	-0.10	5.08E-03	6583	-0.10	2.14E-05	8987	-0.16	5.54E-10
1752	0.20	1.29E-14	4187	0.10	1.56E-05	6584	-0.10	2.00E-03	8997	0.09	3.21E-04
1760	0.10	9.10E-06	4194	-0.10	6.87E-07	6587	0.10	4.75E-03	8999	0.12	5.48E-05
1761	-0.10	2.61E-03	4196	0.10	1.54E-06	6591	0.20	2.65E-08	9002	0.14	2.29E-05
1764	-0.10	1.84E-06	4197	-0.10	1.08E-04	6600	0.20	5.82E-08	9003	0.12	8.06E-07
1768	-0.10	8.22E-06	4202	0.10	4.70E-08	6601	-0.10	1.29E-04	9005	0.08	2.23E-03
1772	-0.20	3.16E-04	4204	-0.10	1.56E-05	6606	0.20	1.69E-05	9009	0.07	8.37E-03
1773	-0.20	2.89E-04	4209	-0.20	2.69E-04	6615	0.10	3.56E-03	9010	-0.10	1.12E-05
1774	-0.20	7.94E-03	4212	-0.10	5.66E-03	6617	0.10	6.99E-03	9011	0.09	3.61E-04
1776	-0.10	5.75E-04	4214	-0.10	3.91E-04	6619	-0.10	1.37E-03	9013	-0.17	5.88E-09
1778	-0.20	6.70E-05	4215	0.20	6.30E-11	6621	-0.20	8.15E-11	9027	-0.12	2.66E-06
1780	0.20	3.32E-20	4219	0.20	4.68E-08	6626	-0.20	2.81E-09	9030	0.13	3.97E-07
1784	0.20	1.13E-04	4230	-0.20	6.73E-06	6630	-0.20	3.82E-08	9031	0.09	1.55E-04
1788	-0.10	1.01E-03	4231	0.10	6.02E-03	6633	-0.10	4.43E-07	9040	-0.09	1.98E-04
1789	0.10	2.52E-07	4234	-0.20	5.27E-13	6635	-0.10	2.62E-03	9043	-0.23	6.22E-07
1790	-0.10	2.67E-07	4236	0.20	2.49E-06	6638	0.10	2.06E-04	9046	-0.13	5.48E-05
1792	0.10	5.40E-05	4238	-0.10	6.28E-03	6639	0.20	1.13E-13	9050	-0.19	1.29E-09
1803	-0.10	1.96E-05	4239	-0.20	1.75E-04	6640	-0.10	5.65E-05	9052	0.07	3.83E-03
1804	-0.20	2.01E-06	4246	-0.10	1.63E-04	6643	0.20	1.30E-13	9054	-0.11	7.88E-04
1805	-0.10	1.79E-03	4248	-0.20	3.51E-04	6648	-0.20	1.19E-03	9055	-0.16	7.52E-09

1808	0.10	6.82E-03	4252	-0.10	4.76E-03	6651	-0.10	6.47E-04	9056	-0.12	6.67E-08
1813	0.10	3.85E-06	4258	0.10	2.41E-03	6658	-0.10	3.02E-05	9057	-0.15	3.80E-11
1815	-0.10	9.93E-04	4259	0.20	7.58E-09	6659	0.20	8.18E-14	9059	-0.10	6.66E-03
1816	0.10	6.50E-03	4261	0.10	1.54E-06	6660	-0.20	1.86E-08	9065	0.16	5.53E-06
1820	-0.20	3.45E-07	4264	-0.10	3.51E-04	6668	0.10	8.89E-03	9070	0.10	6.62E-03
1823	0.10	8.12E-03	4265	0.20	1.36E-07	6669	0.10	1.70E-03	9072	0.09	8.59E-04
1825	-0.10	8.97E-07	4266	-0.20	1.03E-04	6671	-0.10	8.15E-04	9082	-0.08	9.65E-04
1827	-0.20	2.33E-12	4268	-0.10	1.19E-05	6676	-0.10	6.31E-06	9084	-0.22	1.45E-14
1829	-0.10	2.10E-03	4270	-0.10	5.30E-06	6678	0.20	2.79E-08	9087	-0.10	5.75E-06
1836	-0.10	5.29E-05	4272	0.10	2.32E-03	6679	-0.10	2.99E-06	9089	-0.08	2.27E-03
1837	0.10	1.45E-04	4276	-0.10	2.51E-06	6683	-0.10	7.23E-05	9093	0.12	2.14E-05
1850	0.10	8.90E-03	4277	-0.10	3.20E-04	6684	0.20	1.53E-06	9094	0.13	1.64E-05
1853	0.20	6.59E-09	4278	-0.10	3.98E-03	6685	-0.20	5.86E-06	9095	-0.22	1.18E-04
1858	-0.10	1.78E-03	4279	-0.10	3.01E-08	6689	-0.10	9.82E-05	9096	-0.13	2.41E-08
1862	-0.10	3.81E-09	4284	-0.10	1.16E-03	6690	-0.20	2.13E-09	9101	0.13	1.21E-07
1867	-0.20	6.13E-05	4285	0.10	6.28E-04	6697	0.10	1.82E-04	9106	-0.23	6.76E-05
1869	0.20	3.00E-15	4297	0.10	6.60E-06	6701	-0.10	9.76E-04	9110	-0.16	4.47E-04
1870	-0.20	5.25E-03	4298	-0.10	7.28E-04	6702	-0.10	2.93E-03	9113	-0.12	4.63E-04
1871	-0.10	1.22E-03	4299	-0.20	3.81E-08	6708	-0.10	6.69E-03	9122	0.10	2.45E-04
1875	-0.20	1.83E-05	4301	-0.20	1.93E-08	6709	0.10	3.29E-05	9125	-0.13	6.91E-03
1876	0.10	3.72E-05	4304	0.20	3.65E-04	6714	-0.20	1.54E-12	9127	-0.15	2.85E-08
1879	-0.10	1.93E-06	4305	-0.10	3.46E-03	6716	0.10	3.23E-03	9129	0.25	2.31E-26
1884	-0.20	6.75E-08	4312	0.10	5.82E-03	6717	0.10	5.30E-03	9132	-0.17	1.37E-12
1889	-0.10	1.27E-07	4313	0.10	9.13E-05	6718	-0.20	8.24E-05	9135	-0.07	6.75E-03
1890	0.10	3.56E-04	4317	-0.10	2.41E-05	6722	-0.10	7.55E-03	9138	0.12	2.73E-06
1892	0.10	7.53E-03	4319	-0.10	8.49E-03	6724	0.20	8.68E-08	9140	0.11	2.36E-03
1893	0.20	8.60E-07	4327	0.10	8.07E-05	6727	0.20	5.20E-09	9142	0.13	1.41E-07
1900	0.20	3.11E-07	4333	-0.10	6.29E-04	6729	0.10	3.03E-03	9158	0.11	3.46E-05
1906	-0.10	8.64E-03	4334	0.20	2.09E-26	6738	-0.10	4.62E-09	9160	-0.13	1.52E-04
1907	-0.10	5.17E-05	4335	0.20	8.89E-09	6739	-0.10	2.10E-05	9161	0.11	2.41E-05
1910	0.20	4.49E-06	4343	0.10	1.55E-03	6742	-0.10	3.96E-03	9165	0.10	8.36E-09
1912	0.10	1.46E-03	4344	0.20	4.87E-05	6748	0.10	2.82E-03	9166	-0.09	5.13E-04
1922	-0.10	2.95E-08	4345	0.10	4.51E-03	6749	-0.20	2.14E-08	9173	0.15	3.17E-09
1924	-0.10	1.15E-04	4350	0.10	6.91E-03	6751	-0.20	9.29E-07	9183	-0.14	8.03E-09
1926	0.10	1.83E-04	4352	0.20	1.42E-13	6754	0.10	1.15E-04	9187	-0.11	3.13E-08
1927	-0.10	5.23E-03	4354	0.10	3.53E-09	6755	0.20	5.04E-12	9190	0.08	3.42E-04
1928	-0.20	8.59E-12	4358	0.30	7.34E-08	6757	-0.20	3.32E-10	9191	-0.09	1.48E-03
1929	0.20	9.47E-11	4362	-0.20	3.45E-09	6762	-0.10	5.72E-06	9192	-0.11	3.92E-06

1930	0.20	1.07E-10	4374	-0.10	4.46E-04	6765	0.10	6.71E-04	9194	0.08	2.99E-03
1931	0.20	1.25E-05	4379	-0.30	8.83E-06	6766	-0.10	5.05E-04	9200	-0.16	4.54E-08
1938	-0.10	5.48E-05	4385	0.10	1.68E-04	6770	-0.10	1.32E-03	9201	0.10	2.12E-04
1939	0.20	1.55E-16	4386	-0.10	3.20E-03	6774	-0.10	8.62E-04	9207	0.13	1.07E-07
1941	0.30	4.36E-27	4387	-0.10	1.57E-04	6776	0.10	6.94E-03	9208	-0.17	6.63E-07
1944	0.10	2.07E-03	4389	0.10	6.52E-04	6778	-0.10	9.62E-03	9216	-0.08	1.01E-03
1957	-0.10	8.72E-04	4395	0.10	2.41E-03	6779	-0.10	6.49E-03	9219	-0.09	1.01E-04
1964	0.10	5.05E-03	4396	0.10	8.08E-06	6780	-0.20	1.05E-08	9224	-0.13	4.72E-05
1965	0.10	1.94E-04	4398	-0.10	7.55E-04	6783	-0.10	7.78E-04	9225	0.11	1.82E-09
1969	0.10	9.42E-03	4399	0.20	1.42E-05	6790	-0.10	1.80E-04	9228	0.09	1.31E-04
1971	0.10	1.39E-06	4400	-0.20	3.31E-07	6795	0.10	8.83E-04	9232	-0.13	5.89E-04
1974	-0.10	1.39E-07	4401	-0.20	5.43E-11	6798	0.20	4.80E-05	9237	0.10	1.13E-05
1978	-0.20	1.63E-06	4405	-0.10	2.15E-03	6799	0.10	1.14E-08	9241	-0.15	6.89E-09
1980	0.10	5.29E-03	4407	-0.10	7.40E-04	6806	-0.20	1.32E-07	9244	-0.07	3.86E-03
1981	0.10	5.73E-05	4409	-0.10	1.35E-03	6808	-0.10	7.42E-04	9248	0.19	4.21E-12
1988	-0.10	2.14E-03	4415	-0.10	4.14E-08	6812	0.10	1.76E-03	9250	-0.13	9.50E-03
1990	-0.10	1.38E-03	4420	-0.10	3.30E-03	6813	-0.10	7.17E-03	9251	-0.12	3.62E-04
1992	0.10	1.05E-03	4422	0.10	4.33E-03	6817	-0.10	8.68E-03	9255	-0.14	7.46E-04
1996	0.20	5.96E-09	4425	0.20	1.70E-13	6818	-0.20	3.99E-09	9258	0.16	7.66E-05
2002	-0.40	4.19E-08	4426	-0.20	1.23E-09	6819	-0.20	3.30E-03	9259	-0.16	3.21E-04
2009	-0.10	1.15E-07	4430	0.10	2.18E-03	6824	-0.10	3.32E-03	9260	-0.15	1.88E-08
2010	0.10	1.63E-03	4435	-0.20	1.16E-03	6834	-0.10	1.73E-03	9261	0.05	2.60E-03
2013	-0.10	7.26E-03	4440	-0.20	2.35E-04	6835	0.10	5.26E-03	9264	0.07	2.57E-03
2014	0.10	2.87E-03	4446	-0.20	6.49E-15	6836	-0.10	1.79E-03	9265	0.16	1.72E-05
2015	-0.20	9.83E-04	4450	-0.10	7.39E-04	6839	0.20	8.77E-13	9266	-0.17	2.99E-07
2017	-0.10	1.13E-06	4454	0.10	6.42E-05	6842	-0.20	1.75E-03	9269	-0.13	1.16E-06
2018	0.10	1.33E-05	4455	-0.10	4.47E-04	6843	-0.10	4.62E-04	9273	-0.07	9.09E-03
2019	0.10	1.04E-06	4467	0.10	4.14E-05	6844	-0.20	4.85E-04	9281	-0.14	5.63E-09
2024	0.10	5.13E-04	4473	-0.10	7.28E-03	6849	-0.40	1.89E-09	9284	-0.08	6.93E-04
2030	0.10	2.76E-04	4477	0.10	5.76E-03	6854	-0.10	1.19E-03	9288	-0.07	3.20E-03
2040	-0.10	1.01E-04	4478	-0.20	3.89E-10	6856	-0.10	5.90E-06	9290	-0.11	7.03E-06
2044	-0.20	2.79E-12	4482	-0.10	4.76E-03	6862	-0.30	2.30E-06	9293	-0.14	3.67E-07
2045	0.10	1.27E-03	4484	-0.10	9.81E-03	6869	-0.20	8.06E-10	9294	-0.14	2.87E-07
2046	-0.10	1.67E-03	4485	-0.10	1.27E-09	6870	-0.10	8.87E-03	9300	0.17	1.29E-11
2048	0.10	1.77E-05	4486	0.10	1.66E-03	6879	-0.10	2.06E-07	9305	0.13	1.05E-07
2049	0.10	8.89E-07	4487	0.20	4.22E-20	6882	0.10	9.99E-03	9307	0.10	4.34E-04
2056	-0.10	1.43E-04	4493	-0.20	2.20E-11	6886	-0.10	1.86E-05	9311	-0.11	1.96E-05

2059	0.20	1.03E-10	4501	0.10	2.04E-04	6887	-0.10	8.16E-09	9313	-0.12	4.89E-03
2061	-0.10	6.95E-03	4502	0.10	2.41E-03	6889	-0.20	2.15E-14	9314	0.17	1.96E-08
2074	-0.10	4.20E-03	4505	0.10	7.39E-07	6894	0.20	2.63E-06	9315	-0.09	3.87E-04
2075	-0.10	1.37E-06	4506	-0.10	4.07E-05	6895	0.10	7.84E-06	9319	0.07	3.23E-03
2077	0.20	7.82E-20	4517	0.10	2.27E-05	6902	0.10	9.75E-04	9326	-0.11	9.48E-04
2078	-0.10	1.23E-05	4523	0.10	6.51E-09	6909	-0.10	1.51E-03	9327	-0.21	7.99E-07
2080	-0.10	2.52E-03	4528	-0.10	1.37E-03	6910	0.20	2.10E-09	9329	-0.07	5.54E-03
2088	0.10	6.30E-07	4529	-0.30	1.75E-05	6919	-0.10	2.15E-03	9330	-0.08	7.83E-03
2089	-0.20	1.11E-04	4536	0.10	2.82E-04	6925	-0.20	5.06E-03	9342	-0.15	7.04E-05
2090	-0.10	2.01E-03	4542	0.20	3.53E-19	6928	0.20	1.83E-14	9347	-0.15	2.07E-09
2093	-0.10	5.76E-12	4543	0.20	4.04E-08	6933	-0.10	4.34E-03	9348	-0.07	2.49E-05
2094	-0.10	6.04E-06	4545	0.10	4.30E-03	6934	-0.10	4.49E-03	9349	-0.24	2.07E-10
2095	-0.10	6.73E-03	4551	-0.10	1.58E-03	6936	-0.10	9.74E-04	9352	0.15	3.92E-08
2102	-0.10	1.49E-03	4556	-0.10	6.00E-03	6938	-0.10	4.52E-03	9353	0.15	6.54E-08
2107	0.30	1.63E-15	4558	0.10	2.07E-05	6944	-0.20	1.04E-04	9355	0.16	2.66E-11
2110	0.10	4.26E-05	4559	0.10	2.53E-05	6945	0.10	3.54E-05	9356	-0.13	9.32E-07
2114	-0.20	3.62E-05	4560	-0.10	1.64E-06	6953	0.30	4.10E-27	9357	-0.12	2.51E-06
2115	-0.20	3.90E-03	4562	-0.10	9.90E-06	6962	0.20	1.29E-09	9360	-0.11	1.24E-03
2117	-0.10	2.14E-03	4567	-0.20	6.63E-06	6967	-0.10	2.06E-04	9367	-0.12	1.57E-04
2118	0.20	8.19E-08	4578	0.10	6.45E-08	6969	-0.10	2.50E-04	9368	0.22	4.36E-19
2121	0.10	1.48E-03	4580	-0.10	9.44E-06	6976	0.20	1.16E-12	9369	0.10	1.71E-05
2123	0.20	1.11E-06	4581	0.20	5.67E-11	6980	-0.10	6.47E-06	9371	-0.08	6.47E-03
2126	0.10	2.85E-07	4582	0.20	2.04E-11	6985	0.10	7.76E-03	9373	0.09	1.23E-03
2131	-0.20	9.17E-04	4583	0.20	6.84E-15	6991	-0.10	2.07E-04	9381	-0.09	7.23E-04
2132	-0.20	5.74E-04	4589	0.10	1.05E-04	6993	-0.10	4.75E-03	9383	-0.14	6.91E-09
2133	0.10	2.85E-04	4599	-0.10	7.06E-06	6996	0.20	1.53E-10	9386	-0.15	4.65E-08
2134	0.10	6.99E-04	4602	0.30	6.29E-29	6998	-0.10	7.67E-05	9388	-0.19	3.22E-05
2137	0.10	2.79E-06	4606	-0.10	1.53E-08	6999	-0.20	2.42E-17	9390	-0.11	3.94E-03
2140	0.10	2.97E-06	4607	-0.10	7.96E-09	7004	0.10	1.39E-03	9394	-0.20	1.65E-07
2144	-0.10	4.59E-03	4608	-0.20	1.55E-13	7011	-0.10	4.60E-04	9397	-0.09	9.02E-04
2146	0.10	9.03E-03	4609	-0.10	6.75E-03	7012	-0.10	4.59E-04	9399	-0.16	3.21E-03
2152	-0.10	1.02E-04	4610	0.10	3.18E-05	7020	-0.10	7.21E-06	9402	-0.22	3.65E-16
2159	-0.20	2.68E-03	4612	-0.20	1.30E-07	7021	0.20	6.43E-05	9404	-0.10	1.27E-04
2166	-0.10	6.07E-04	4615	-0.20	2.89E-03	7027	-0.10	6.21E-04	9405	-0.13	3.25E-04
2172	0.20	4.33E-09	4616	-0.10	5.09E-04	7028	0.10	6.60E-06	9406	-0.11	1.13E-10
2178	0.10	1.62E-03	4619	-0.20	1.87E-13	7044	-0.10	8.93E-06	9408	-0.07	4.01E-03
2187	-0.20	5.54E-07	4622	-0.10	3.84E-03	7048	-0.20	3.26E-07	9410	0.08	1.25E-03

2195	-0.10	1.51E-04	4623	-0.10	1.96E-05	7053	-0.10	2.82E-08	9413	-0.14	3.83E-04
2200	-0.20	2.28E-04	4627	-0.10	1.48E-03	7055	-0.10	1.91E-03	9424	-0.17	9.01E-10
2203	-0.10	4.16E-05	4629	0.10	1.58E-09	7063	0.10	6.93E-06	9430	0.10	1.01E-04
2210	-0.10	1.39E-04	4634	-0.10	1.40E-04	7072	-0.10	2.90E-03	9432	0.15	1.45E-05
2215	0.10	4.52E-07	4638	-0.10	7.62E-03	7073	-0.10	2.90E-03	9437	-0.18	7.10E-03
2218	0.10	7.17E-04	4639	-0.10	7.68E-03	7078	-0.10	2.30E-03	9444	0.14	1.06E-03
2224	0.10	1.00E-07	4647	0.10	8.84E-05	7079	0.10	3.94E-06	9445	-0.12	6.78E-05
2226	-0.10	3.33E-03	4651	0.30	9.30E-19	7082	0.10	2.05E-04	9447	-0.12	2.50E-03
2227	-0.10	2.57E-06	4654	-0.20	1.89E-11	7086	-0.20	4.78E-13	9449	0.12	8.44E-03
2228	-0.10	3.70E-04	4662	-0.20	1.35E-09	7088	-0.10	1.91E-04	9452	-0.15	4.69E-04
2229	-0.10	1.41E-05	4664	0.10	7.12E-03	7101	-0.10	4.42E-08	9459	-0.08	1.96E-03
2231	0.20	2.73E-08	4669	-0.10	6.19E-03	7106	0.10	2.47E-04	9461	0.12	4.03E-06
2237	-0.20	9.61E-07	4675	0.10	2.90E-06	7108	-0.20	1.08E-05	9462	-0.09	7.46E-04
2245	-0.10	7.45E-05	4677	-0.10	6.86E-04	7112	-0.10	1.65E-03	9464	-0.14	9.23E-06
2248	-0.10	1.72E-03	4678	0.20	1.06E-07	7116	0.10	5.20E-07	9468	-0.12	5.58E-05
2250	-0.20	1.73E-12	4679	-0.20	5.03E-13	7123	0.10	7.83E-03	9472	-0.09	2.30E-03
2251	-0.10	4.62E-06	4687	0.10	2.25E-04	7128	0.10	3.31E-08	9476	-0.09	1.30E-04
2254	-0.10	1.86E-04	4690	-0.20	3.11E-07	7129	-0.20	5.92E-10	9478	0.23	2.54E-08
2256	0.10	7.87E-03	4691	-0.20	8.45E-08	7130	0.20	1.28E-05	9483	-0.14	3.19E-05
2257	-0.10	7.50E-05	4696	-0.20	1.33E-11	7132	-0.10	6.02E-03	9486	-0.14	9.27E-03
2260	-0.10	4.21E-04	4702	0.10	9.90E-07	7133	-0.10	8.88E-03	9493	-0.08	9.18E-04
2261	-0.10	1.65E-05	4708	-0.20	7.86E-07	7138	-0.10	8.18E-03	9494	-0.24	9.22E-05
2268	-0.10	5.86E-04	4723	-0.20	5.17E-07	7139	-0.10	1.17E-05	9497	-0.11	1.10E-05
2275	-0.20	8.31E-14	4724	-0.10	7.67E-05	7140	-0.20	9.43E-06	9498	-0.09	4.82E-04
2283	-0.10	9.91E-03	4728	0.10	5.59E-03	7142	-0.10	1.50E-05	9500	-0.08	8.46E-03
2284	-0.10	2.69E-03	4731	-0.10	4.48E-04	7149	0.20	6.71E-11	9505	-0.06	6.91E-04
2285	-0.10	1.92E-05	4746	0.20	7.27E-09	7150	0.10	3.42E-04	9506	0.10	5.29E-03
2288	-0.10	7.84E-03	4756	0.10	9.84E-11	7151	0.10	3.44E-04	9515	-0.17	6.05E-04
2293	0.10	6.10E-03	4758	-0.20	4.80E-10	7162	0.10	2.41E-06	9517	-0.10	2.00E-03
2294	0.10	6.23E-03	4760	-0.10	7.65E-06	7165	-0.10	4.88E-05	9521	-0.11	5.55E-06
2295	-0.10	3.25E-04	4761	-0.10	7.96E-06	7166	-0.10	1.92E-05	9529	0.09	4.86E-04
2300	0.20	2.78E-24	4762	0.10	1.49E-03	7175	-0.10	7.59E-04	9530	-0.15	2.54E-06
2303	0.20	4.68E-15	4764	0.10	1.06E-03	7181	-0.20	7.71E-03	9531	-0.15	1.92E-08
2315	0.10	4.74E-06	4769	-0.10	2.81E-03	7182	0.10	8.55E-04	9538	-0.20	6.88E-08
2316	0.10	2.95E-05	4770	-0.10	2.93E-07	7187	0.10	3.14E-03	9540	-0.15	1.17E-07
2323	0.10	6.48E-08	4771	-0.30	8.89E-10	7188	-0.10	1.44E-03	9542	-0.14	8.93E-03
2324	-0.10	4.43E-06	4774	0.10	4.96E-03	7189	0.20	8.63E-10	9543	-0.07	9.54E-03
2325	-0.20	3.88E-11	4775	0.10	1.97E-03	7190	0.10	5.51E-06	9544	0.05	9.05E-03

2328	0.10	4.29E-03	4780	0.10	3.52E-07	7195	-0.20	6.30E-10	9553	-0.12	3.46E-06
2329	-0.10	1.58E-06	4781	0.10	3.96E-04	7197	-0.10	5.86E-07	9557	-0.09	7.44E-04
2334	-0.10	2.14E-03	4788	0.10	4.86E-04	7198	-0.10	3.10E-03	9558	-0.09	4.27E-04
2335	-0.20	5.68E-21	4789	-0.10	2.15E-05	7199	-0.20	1.64E-09	9567	-0.10	2.56E-03
2336	0.10	1.18E-03	4790	-0.10	1.90E-04	7202	-0.10	4.57E-03	9575	0.15	1.33E-09
2341	-0.20	7.84E-07	4795	0.10	4.23E-04	7204	0.10	2.95E-04	9580	-0.08	6.99E-04
2343	0.20	1.34E-19	4800	-0.20	2.98E-05	7218	-0.20	3.03E-14	9581	-0.09	5.60E-04
2344	0.10	2.05E-03	4801	-0.10	1.49E-06	7219	-0.20	1.39E-07	9582	0.15	1.69E-10
2345	-0.10	1.48E-03	4803	0.10	1.22E-07	7223	-0.10	4.98E-06	9584	-0.09	6.36E-04
2354	-0.20	5.56E-07	4807	0.20	1.19E-09	7227	0.20	8.70E-08	9587	0.12	2.71E-07
2357	0.10	1.15E-03	4808	-0.20	1.19E-14	7228	0.20	3.44E-08	9589	0.11	4.10E-05

9696	-0.16	6.58E-06	12887	0.17	1.80E-08
9698	0.20	6.00E-17	12888	-0.14	1.99E-07
9699	-0.13	6.79E-06	12889	0.21	5.07E-14
9700	0.10	3.72E-04	12894	-0.16	4.60E-05
9701	-0.10	3.85E-03	12897	0.12	1.32E-03
9703	0.10	7.64E-04	12902	-0.16	1.03E-08
9707	-0.15	1.32E-08	12905	-0.14	6.62E-06
9711	-0.08	1.23E-05	12927	-0.22	2.01E-19
9712	-0.22	2.03E-03	12929	-0.09	5.59E-04
9714	0.07	4.54E-03	12938	-0.19	1.41E-04
9715	-0.18	3.78E-14	12940	0.10	7.10E-05
9716	0.12	4.47E-06	12941	-0.13	5.06E-03
9718	-0.13	1.01E-06	12945	0.09	1.13E-03
9719	-0.09	1.74E-04	12948	-0.17	4.40E-06
9723	0.23	3.47E-08	12950	0.07	6.60E-03
9725	-0.10	4.63E-05	12952	0.15	3.27E-10
9730	-0.17	5.66E-08	12958	-0.08	2.24E-03
9732	-0.21	8.98E-06	12962	0.14	7.74E-05
9733	0.08	1.55E-03	12969	0.06	1.35E-03
9736	-0.10	4.28E-05	12977	0.25	9.58E-14
9738	-0.08	3.01E-03	12979	-0.14	5.03E-07
9746	0.26	3.10E-12	12980	-0.17	1.82E-05
9747	-0.20	1.45E-05	12990	-0.12	2.67E-04
9749	0.08	9.82E-04	12993	0.22	4.74E-20
9757	-0.33	1.54E-04	12994	-0.19	2.90E-14
9763	0.17	3.85E-09	12996	0.10	4.45E-05
9764	-0.08	2.03E-03	12998	0.12	1.22E-05
9766	0.22	2.97E-06	13000	-0.15	2.94E-11
9767	-0.17	9.01E-03	13003	-0.15	7.37E-06
9769	0.12	7.54E-04	13006	0.09	2.03E-03
9771	-0.09	2.60E-04	13009	-0.16	8.06E-10
9774	-0.10	4.30E-05	13010	0.06	9.50E-03
9780	-0.14	1.05E-04	13013	-0.17	6.41E-03
9781	-0.08	2.71E-03	13018	-0.13	2.46E-05
9782	-0.15	8.68E-10	13020	0.10	5.07E-05

9808	-0.08	1.18E-03	13024	0.11	6.54E-03
9809	0.15	4.14E-07	13025	0.18	1.49E-07
9817	0.09	2.13E-06	13027	0.10	4.95E-05
9818	0.09	1.18E-06	13031	-0.18	1.43E-03
9819	-0.09	2.47E-04	13040	-0.16	5.11E-05
9822	-0.09	3.28E-03	13043	0.15	3.80E-10
9825	-0.16	1.40E-07	13051	0.21	3.71E-20
9835	0.08	8.20E-03	13055	0.08	1.28E-03
9838	-0.14	9.64E-09	13065	-0.15	1.43E-08
9844	0.09	9.46E-03	13070	-0.24	2.40E-04
9851	-0.32	4.40E-10	13072	-0.15	9.26E-03
9858	-0.14	7.55E-10	13075	0.14	9.02E-10
9859	-0.19	1.22E-13	13089	-0.14	2.54E-05
9860	-0.14	3.79E-06	13091	-0.11	6.65E-05
9863	-0.16	1.12E-06	13094	-0.10	2.65E-04
9866	-0.11	1.12E-05	13103	0.10	4.16E-05
9867	-0.16	3.95E-09	13109	0.10	6.18E-05
9868	-0.13	7.27E-05	13111	0.18	7.72E-13
9869	-0.16	2.01E-06	13116	-0.09	6.86E-03
9870	0.08	3.17E-03	13123	-0.12	1.86E-03
9873	0.08	7.75E-04	13124	-0.09	6.18E-07
9874	-0.11	5.18E-06	13126	-0.13	3.21E-07
9876	0.09	3.29E-04	13128	-0.17	2.55E-05
9886	0.12	7.71E-05	13132	0.09	3.42E-04
9889	0.10	2.85E-03	13139	0.08	4.91E-03
9891	0.12	6.02E-06	13142	-0.28	4.88E-09
9894	-0.07	6.83E-03	13143	0.20	5.73E-15
9899	0.08	1.66E-03	13149	0.19	1.54E-11
9905	0.19	3.17E-05	13151	-0.16	3.32E-06
9908	0.08	1.11E-03	13161	-0.13	3.65E-08
9910	0.13	3.62E-06	13171	0.12	1.28E-03
9913	-0.14	1.65E-07	13175	0.07	6.89E-03
9917	-0.20	1.30E-11	13178	0.07	2.84E-03
9919	0.10	4.13E-05	13179	0.08	7.75E-03
9920	-0.10	9.39E-03	13184	-0.10	2.95E-03
9922	-0.17	2.20E-10	13185	-0.10	2.66E-05
9924	0.08	4.72E-04	13191	-0.13	3.69E-05

9927	0.19	7.45E-09	13200	0.20	4.52E-10
9928	0.13	2.82E-05	13204	0.09	1.62E-03
9929	0.15	2.51E-03	13212	0.08	5.80E-03
9941	-0.12	1.75E-04	13214	0.07	9.52E-03
9945	-0.07	4.53E-03	13215	0.09	2.00E-04
9946	0.23	1.66E-17	13216	-0.11	1.72E-04
9952	0.13	7.44E-06	13217	-0.11	8.30E-06
9957	-0.24	1.08E-15	13218	-0.15	7.38E-04
9959	0.18	2.38E-13	13230	-0.11	6.36E-06
9960	-0.15	3.59E-03	13236	-0.20	7.64E-04
9961	0.17	2.05E-12	13238	-0.14	3.85E-08
9963	-0.09	4.22E-04	13254	0.08	2.31E-03
9964	0.17	2.40E-08	13255	-0.07	7.60E-03
9967	-0.07	4.27E-03	13264	-0.08	8.05E-04
9968	-0.07	8.97E-03	13276	0.13	4.42E-08
9973	-0.13	3.90E-06	13279	-0.15	9.28E-03
9975	-0.06	3.27E-03	13302	0.08	2.15E-03
9981	-0.10	1.44E-04	13305	-0.22	5.77E-09
9982	-0.14	2.48E-08	13306	-0.21	2.21E-04
9984	0.06	8.76E-03	13308	-0.13	5.10E-03
9987	-0.13	1.04E-06	13310	0.14	3.51E-08
9992	-0.15	1.93E-04	13312	-0.10	1.57E-04
9994	0.08	3.81E-04	13315	-0.33	1.38E-05
9995	0.28	4.90E-32	13323	-0.20	1.48E-03
10003	-0.08	2.38E-03	13326	0.21	2.71E-06
10005	-0.07	5.36E-03	13328	0.17	8.66E-09
10006	-0.09	4.81E-04	13332	-0.12	1.79E-03
10011	-0.21	1.64E-15	13344	0.09	2.96E-03
10015	-0.07	9.63E-04	13348	0.16	9.30E-05
10020	0.08	5.79E-04	13355	-0.09	1.62E-04
10026	-0.13	2.95E-07	13365	-0.18	2.98E-03
10035	0.15	6.87E-09	13367	0.12	9.52E-08
10044	0.14	9.00E-08	13378	-0.23	3.26E-06
10045	-0.25	4.47E-04	13379	-0.09	6.79E-03
10046	-0.07	7.95E-03	13381	-0.16	2.09E-04
10053	-0.20	1.21E-06	13382	0.14	1.54E-05
10054	0.12	5.11E-06	13383	0.18	1.22E-07
10061	0.10	6.92E-03	13393	0.16	2.99E-03

10062	-0.15	6.13E-10	13406	-0.09	3.72E-04
10064	-0.17	6.56E-03	13407	0.09	1.12E-04
10066	-0.15	2.14E-10	13411	0.11	1.50E-04
10069	-0.09	3.08E-04	13413	0.16	3.86E-04
10074	-0.14	3.42E-04	13420	0.08	3.70E-03
10076	-0.11	3.96E-06	13434	0.13	1.46E-06
10077	-0.13	2.75E-12	13441	0.20	3.21E-15
10079	0.13	2.48E-04	13455	-0.07	3.89E-03
10080	-0.10	1.67E-03	13457	-0.11	4.63E-05
10084	0.19	4.71E-09	13460	0.11	9.17E-03
10092	-0.15	2.60E-09	13466	-0.13	2.14E-08
10095	0.11	9.94E-09	13472	-0.26	1.07E-06
10101	-0.11	6.59E-04	13475	-0.17	2.12E-10
10102	0.13	2.33E-04	13476	0.07	1.85E-03
10107	-0.07	6.42E-03	13477	0.09	2.12E-03
10110	0.07	3.98E-03	13485	0.20	2.43E-09
10114	0.19	1.71E-07	13491	-0.32	1.89E-05
10115	-0.16	5.60E-10	13492	0.11	8.49E-03
10117	-0.07	6.45E-03	13496	-0.10	2.14E-04
10119	-0.09	8.26E-04	13497	-0.07	6.11E-03
10123	0.05	1.76E-03	13501	-0.08	1.00E-03
10124	-0.15	5.79E-10	13517	-0.12	4.18E-04
10127	-0.10	4.76E-03	13519	0.22	8.32E-08
10129	0.12	1.74E-06	13523	0.11	3.43E-04
10132	0.17	3.94E-09	13527	-0.19	1.72E-15
10139	-0.12	8.16E-07	13529	0.16	1.75E-08
10140	0.13	3.40E-05	13538	-0.15	2.19E-07
10148	-0.17	4.40E-11	13540	-0.29	1.44E-04
10157	-0.17	2.90E-12	13543	-0.09	6.36E-04
10160	0.19	1.07E-16	13551	-0.10	4.35E-03
10161	-0.15	2.05E-05	13552	0.15	2.07E-10
10162	-0.19	4.79E-13	13565	-0.12	2.69E-06
10163	0.08	2.57E-03	13578	0.16	1.15E-10
10176	0.07	8.52E-03	13592	-0.22	9.21E-04
10177	0.20	1.18E-14	13608	0.18	1.88E-13
10193	-0.09	2.38E-03	13609	0.09	8.73E-04
10194	-0.10	1.17E-04	13612	-0.09	9.54E-04

10196	-0.15	4.23E-03	13618	0.08	5.88E-04
10198	0.11	1.66E-05	13629	0.12	5.20E-07
10199	0.22	2.42E-20	13632	-0.10	3.28E-03
10200	0.25	1.84E-19	13635	-0.08	3.36E-04
10210	0.12	5.60E-04	13637	-0.14	4.77E-08
10212	-0.17	7.14E-07	13654	-0.10	4.55E-04
10226	0.09	5.39E-04	13656	-0.08	2.64E-05
10227	0.08	3.14E-03	13663	-0.12	1.02E-05
10242	-0.10	5.45E-04	13667	-0.10	4.03E-04
10245	0.08	1.78E-03	13668	0.21	1.98E-09
10246	-0.07	9.71E-03	13672	0.14	1.52E-04
10252	0.08	6.27E-03	13689	-0.17	3.15E-04
10258	-0.12	6.66E-04	13700	-0.11	5.89E-05
10262	0.09	4.25E-04	13706	0.19	1.98E-07
10266	0.11	2.97E-05	13707	-0.24	3.97E-06
10268	-0.06	6.76E-03	13710	0.11	4.20E-07
10271	-0.05	3.38E-03	13725	0.15	9.87E-05
10274	-0.16	5.52E-06	13727	-0.08	6.55E-03
10275	-0.20	2.41E-05	13740	0.10	8.06E-05
10283	-0.12	2.29E-05	13741	-0.10	2.67E-04
10286	-0.16	2.39E-08	13755	0.14	1.02E-04
10288	0.13	3.57E-05	13761	-0.06	8.67E-03
10291	-0.07	6.41E-03	13763	-0.26	9.36E-07
10292	-0.12	2.10E-03	13772	0.11	3.87E-06
10299	0.11	6.48E-04	13775	-0.20	3.36E-07
10300	-0.13	4.09E-05	13783	-0.07	3.10E-03
10302	0.11	3.26E-06	13791	0.11	6.22E-06
10305	-0.14	3.88E-09	13793	-0.18	2.82E-11
10313	-0.13	3.78E-07	13795	0.17	8.24E-10
10315	-0.10	1.23E-03	13805	0.07	4.10E-03
10331	0.09	1.40E-03	13812	-0.11	2.55E-05
10333	0.09	2.91E-04	13813	-0.14	2.65E-08
10341	-0.18	6.35E-10	13814	-0.15	2.80E-04
10343	0.09	1.94E-04	13826	0.08	1.63E-03
10346	-0.30	1.23E-05	13838	0.08	3.10E-03
10347	-0.11	1.73E-06	13839	-0.13	9.62E-07
10353	0.23	2.68E-08	13852	0.08	8.88E-04
10358	-0.17	5.76E-08	13857	0.10	1.01E-05

10363	0.12	1.36E-06	13865	-0.16	2.26E-03
10367	0.09	4.94E-04	13878	-0.16	4.73E-09
10368	0.09	1.65E-03	13891	-0.14	1.96E-05
10370	0.17	1.05E-11	13898	0.20	1.55E-12
10372	-0.05	3.22E-03	13899	-0.10	2.41E-03
10374	-0.14	4.44E-10	13900	-0.07	3.45E-03
10375	-0.15	5.29E-07	13906	-0.18	2.07E-09
10378	-0.11	3.10E-04	13916	-0.14	2.49E-04
10379	-0.11	1.83E-04	13917	-0.08	3.43E-03
10380	0.14	1.72E-04	13923	-0.14	7.91E-05
10386	-0.10	6.31E-05	13926	-0.13	4.87E-03
10393	-0.16	5.29E-08	13927	0.23	3.04E-12
10397	0.13	2.54E-06	13934	-0.12	1.89E-06
10399	0.14	1.09E-07	13935	0.08	1.00E-03
10400	-0.12	3.14E-03	13939	-0.10	2.51E-04
10402	-0.07	2.15E-03	13949	-0.19	4.43E-08
10404	-0.07	5.90E-03	13955	0.12	3.33E-05
10407	-0.10	5.85E-04	13959	0.13	6.11E-04
10409	0.11	1.72E-05	13967	-0.20	4.41E-04
10421	0.12	1.41E-03	13971	0.15	2.15E-07
10422	0.11	7.54E-04	13973	0.07	7.99E-03
10423	0.14	1.01E-06	13980	-0.15	2.60E-04
10436	-0.15	4.63E-03	13984	-0.15	1.03E-09
10438	0.22	2.75E-21	13987	-0.08	1.33E-03
10444	-0.25	4.63E-17	13989	-0.16	3.97E-10
10446	-0.15	1.53E-05	13997	0.15	8.71E-06
10448	-0.07	9.20E-03	13998	0.16	3.81E-07
10454	0.16	4.54E-12	14008	0.07	5.51E-03
10456	-0.13	8.11E-05	14014	-0.08	6.40E-04
10457	0.09	1.13E-07	14019	0.10	2.79E-05
10461	-0.18	6.86E-08	14031	-0.09	2.60E-04
10462	0.14	6.71E-08	14038	-0.13	1.77E-07
10464	0.10	6.04E-03	14049	0.15	3.88E-10
10468	-0.07	9.33E-04	14050	0.15	6.93E-08
10474	-0.15	2.81E-07	14052	-0.09	8.14E-04
10480	-0.17	5.09E-09	14057	-0.14	4.93E-08
10481	0.10	2.87E-04	14071	-0.09	2.41E-04

10483	0.25	2.07E-09	14079	0.16	2.03E-10
10487	-0.22	1.07E-14	14081	-0.20	3.45E-08
10490	-0.14	1.95E-07	14084	0.07	8.24E-03
10492	0.16	1.31E-09	14088	0.11	2.16E-05
10494	0.14	2.27E-12	14090	-0.17	1.83E-05
10495	-0.13	1.15E-05	14094	-0.08	8.55E-03
10507	-0.11	7.14E-05	14101	0.08	3.61E-03
10515	-0.23	6.50E-07	14103	0.13	2.11E-04
10516	0.08	9.51E-03	14106	0.13	2.69E-09
10520	-0.37	4.88E-13	14111	-0.08	1.22E-03
10538	0.16	1.16E-06	14113	0.21	1.40E-12
10539	0.14	3.69E-08	14124	-0.10	8.11E-04
10542	0.05	7.44E-03	14131	-0.14	1.89E-08
10543	-0.21	3.50E-08	14136	-0.08	3.05E-03
10548	0.11	1.18E-05	14153	-0.22	5.68E-11
10550	-0.11	1.33E-05	14164	-0.11	7.53E-05
10554	-0.12	1.98E-04	14170	0.18	1.14E-12
10555	0.16	1.23E-04	14178	-0.06	4.18E-03
10561	-0.10	1.73E-03	14182	0.14	7.41E-08
10569	0.15	9.93E-09	14187	-0.16	6.67E-03
10572	-0.11	1.03E-04	14189	0.19	1.77E-07
10576	-0.16	1.22E-10	14191	-0.09	2.48E-03
10578	-0.15	3.67E-09	14194	-0.24	1.71E-08
10579	-0.12	6.74E-03	14195	-0.14	2.86E-06
10582	0.07	3.66E-05	14197	-0.24	1.41E-08
10584	-0.19	3.91E-14	14206	0.14	1.06E-05
10588	0.08	9.02E-04	14213	0.15	5.18E-08
10590	-0.09	8.28E-04	14222	-0.17	2.44E-05
10599	-0.10	1.88E-03	14227	-0.08	1.89E-03
10601	-0.17	4.73E-11	14237	-0.18	8.96E-08
10604	-0.21	2.65E-11	14244	-0.17	1.04E-13
10605	-0.08	5.36E-03	14246	-0.11	6.07E-06
10608	-0.16	2.03E-09	14265	-0.08	3.01E-03
10609	0.13	3.13E-03	14269	0.15	1.43E-05
10612	-0.10	6.01E-03	14274	-0.11	1.60E-03
10622	-0.20	4.39E-05	14284	-0.17	5.80E-04
10624	-0.08	6.13E-03	14296	-0.18	1.78E-13

10625	0.11	2.42E-05
10631	-0.08	3.17E-03
10633	-0.12	6.04E-06
10634	0.09	1.46E-03
10636	-0.17	2.54E-03
10648	0.15	5.48E-03
10649	0.18	2.74E-13
10655	-0.16	4.00E-10
10668	-0.20	2.06E-06
10674	-0.14	1.44E-08
10677	0.19	2.16E-11
10678	-0.21	7.81E-05
10685	-0.09	9.93E-04
10688	-0.16	4.12E-11
10696	-0.12	6.35E-05
10722	0.13	1.69E-05
10724	-0.16	7.04E-04
10728	0.12	2.82E-03
10733	0.12	8.53E-05
10734	0.11	5.23E-06
10741	-0.12	6.42E-03
10744	-0.09	8.04E-03
10746	-0.08	5.69E-05
10748	0.08	3.73E-03
10752	-0.08	2.24E-03
10758	-0.19	5.44E-06
10760	-0.10	4.06E-05
10763	-0.29	2.19E-08
10778	0.17	9.98E-13
10785	0.12	4.84E-03
10791	-0.11	1.95E-05
10792	-0.14	1.64E-06
10798	0.10	3.27E-05
10802	0.11	5.84E-05
10807	-0.08	1.72E-03
10811	-0.26	1.06E-06
10813	0.14	7.88E-06
10818	-0.12	2.08E-06
14298	0.21	3.61E-08
14301	0.16	8.02E-13
14306	0.14	2.62E-07
14307	0.13	2.17E-08
14309	0.14	6.57E-09
14310	-0.10	2.10E-04
14311	-0.14	3.42E-08
14313	0.11	1.46E-05
14315	-0.05	1.92E-03
14316	-0.09	1.69E-04
14330	-0.11	1.70E-06
14333	0.14	4.62E-08
14334	-0.11	3.42E-05
14373	0.09	1.85E-03
14377	0.12	5.85E-07
14379	-0.23	3.96E-06
14380	0.10	1.05E-04
14381	-0.11	1.10E-03
14389	-0.16	6.89E-11
14390	0.19	6.78E-10
14391	0.18	5.11E-13
14392	0.10	1.71E-03
14399	0.10	9.29E-05
14405	0.10	6.79E-03
14406	-0.18	3.81E-06
14411	-0.10	3.63E-05
14414	0.09	3.59E-07
14424	-0.13	3.23E-04
14426	-0.11	5.78E-05
14430	0.14	9.22E-09
14436	0.09	2.08E-04
14441	0.09	1.94E-04
14448	-0.09	1.47E-03
14450	0.08	4.97E-03
14454	0.19	2.04E-07
14458	-0.07	5.66E-03
14460	0.13	4.20E-07
14469	-0.12	1.57E-05

10828	-0.09	4.99E-04	14476	0.23	2.16E-11
10837	0.14	1.03E-08	14478	-0.08	2.45E-03
10838	0.17	5.74E-12	14479	-0.16	2.24E-09
10839	-0.16	4.95E-04	14484	0.10	2.90E-05
10840	-0.12	1.05E-05	14488	0.08	4.69E-03
10842	-0.09	5.47E-03	14494	-0.09	9.50E-03
10854	-0.11	4.27E-03	14498	-0.11	2.12E-03
10858	0.07	9.86E-03	14502	-0.19	3.20E-04
10872	-0.21	1.71E-11	14504	-0.21	3.14E-07
10878	0.11	1.00E-05	14507	0.09	4.93E-04
10883	-0.11	5.18E-06	14509	0.08	1.27E-03
10888	-0.21	4.26E-13	14523	0.08	1.78E-03
10889	-0.07	3.04E-03	14524	-0.10	1.38E-03
10897	0.26	1.79E-04	14533	-0.07	8.93E-03
10908	0.07	8.80E-03	14534	-0.11	8.10E-04
10917	-0.18	4.17E-08	14535	-0.09	6.32E-04
10923	-0.14	5.63E-05	14552	-0.18	7.44E-03
10924	0.09	3.38E-04	14555	0.14	1.44E-08
10926	-0.23	1.37E-05	14560	-0.14	6.96E-06
10929	0.20	2.10E-05	14603	0.14	4.18E-08
10940	-0.08	1.37E-03	14611	0.14	6.01E-07
10943	-0.19	2.62E-06	14612	-0.15	1.64E-09
10951	0.14	5.05E-04	14615	0.08	1.28E-03
10962	0.13	4.31E-06	14616	-0.09	7.50E-03
10965	0.10	1.07E-04	14625	-0.09	3.28E-04
10972	0.13	7.44E-03	14628	-0.09	5.69E-05
10974	-0.11	1.56E-03	14636	-0.10	6.28E-03
10977	-0.15	3.22E-08	14641	0.07	5.31E-03
10980	0.17	1.70E-13	14649	0.08	8.16E-04
10984	-0.10	1.19E-03	14651	0.09	2.93E-04
10985	-0.16	2.51E-11	14658	0.06	7.37E-03
10987	-0.17	4.72E-06	14659	0.10	6.64E-05
10991	0.12	2.46E-05	14661	-0.13	5.06E-07
10995	-0.10	1.32E-03	14665	-0.22	2.62E-05
11000	-0.14	4.22E-04	14668	-0.11	4.27E-04
11003	-0.14	5.20E-03	14677	0.10	5.64E-04
11012	-0.10	1.25E-04	14688	0.10	5.76E-04

11013	-0.09	6.42E-04	14694	-0.16	6.91E-05
11015	0.17	6.22E-04	14695	-0.23	4.13E-17
11029	0.10	1.83E-04	14696	0.12	5.88E-03
11048	-0.18	9.35E-05	14697	-0.15	3.77E-08
11053	0.08	8.32E-03	14698	-0.15	4.40E-08
11062	0.08	6.71E-04	14699	0.06	8.92E-03
11064	-0.08	3.53E-03	14700	-0.16	6.65E-12
11065	0.09	6.96E-05	14716	0.08	1.13E-03
11074	0.11	7.11E-03	14722	0.12	2.75E-06
11075	0.12	4.75E-03	14727	0.13	4.72E-07
11083	-0.07	9.08E-03	14734	-0.14	3.87E-07
11088	0.16	1.53E-10	14738	-0.16	2.69E-03
11090	0.14	3.51E-05	14739	0.13	1.75E-08
11096	0.30	4.96E-14	14762	-0.14	6.32E-04
11097	-0.08	2.11E-03	14767	0.14	8.46E-04
11101	0.08	9.51E-04	14773	-0.15	1.64E-07
11102	0.18	3.35E-12	14777	-0.09	1.22E-03
11108	-0.09	1.75E-04	14778	0.07	2.34E-03
11110	-0.09	9.99E-03	14781	-0.24	3.93E-06
11127	-0.09	4.86E-04	14783	0.07	2.78E-03
11139	-0.09	2.19E-04	14791	0.13	8.25E-07
11149	0.10	4.07E-05	14800	-0.12	1.52E-05
11151	0.17	1.93E-05	14806	-0.23	9.22E-08
11153	-0.09	5.92E-04	14807	-0.14	1.36E-04
11157	-0.07	7.15E-03	14808	0.12	1.05E-06
11159	0.17	2.33E-12	14815	-0.16	8.25E-03
11166	-0.15	4.94E-09	14817	-0.15	2.31E-05
11172	-0.19	8.38E-15	14828	0.08	1.69E-03
11173	0.19	3.31E-15	14836	-0.16	2.01E-05
11177	0.16	9.89E-04	14839	-0.10	8.56E-05
11181	-0.24	3.43E-08	14841	-0.08	4.03E-03
11184	0.18	2.16E-12	14873	-0.10	2.48E-04
11188	0.08	8.77E-04	14884	-0.08	1.72E-03
11196	0.16	1.30E-11	14886	0.17	7.99E-13
11201	-0.17	1.32E-06	14899	0.11	1.41E-04
11202	-0.06	9.16E-03	14904	0.12	2.28E-06
11206	-0.09	7.86E-04	14908	0.08	1.61E-03
11210	0.23	8.00E-08	14915	0.14	7.11E-09

11211	0.10	2.38E-03
11213	-0.19	2.13E-04
11216	-0.11	4.89E-03
11217	-0.10	5.78E-03
11224	0.13	2.90E-06
11236	-0.16	1.99E-06
11244	0.16	1.24E-11
11249	-0.10	4.55E-05
11251	0.10	2.82E-05
11254	-0.09	7.55E-07
11280	0.12	4.73E-03
11284	-0.11	6.77E-05
11292	0.17	5.66E-08
11294	-0.11	1.12E-03
11301	-0.08	1.38E-03
11302	0.20	8.92E-11
11306	-0.20	6.93E-19
11310	0.07	1.96E-03
11311	-0.15	6.73E-08
11312	0.12	3.44E-05
11314	-0.13	9.28E-08
11315	0.11	1.08E-03
11316	-0.10	9.12E-04
11321	-0.15	7.37E-08
11322	-0.11	7.55E-03
11323	-0.20	2.44E-08
11324	-0.07	7.08E-03
11337	0.18	5.67E-13
11340	0.13	9.82E-08
11343	0.11	7.85E-06
11344	0.15	1.40E-08
11348	-0.16	6.80E-05
11352	0.08	1.35E-03
11355	-0.19	3.59E-08
11359	-0.13	9.43E-08
11362	-0.21	3.27E-05
11375	-0.10	8.24E-04
14925	0.14	2.54E-09
14937	0.15	1.69E-10
14938	0.14	7.74E-03
14940	0.08	6.79E-03
14944	-0.25	1.24E-04
14966	-0.19	1.33E-14
14972	0.22	4.67E-20
14973	0.17	1.85E-08
14974	-0.23	1.35E-13
14975	0.15	2.91E-07
14989	-0.23	2.11E-06
14999	-0.22	1.65E-03
15001	-0.10	6.79E-03
15003	-0.13	2.05E-06
15008	-0.10	3.22E-03
15012	-0.38	7.34E-06
15017	-0.13	5.47E-03
15026	-0.13	1.75E-07
15042	-0.20	3.39E-08
15047	-0.15	3.01E-08
15050	-0.13	1.89E-05
15060	-0.12	1.16E-06
15062	-0.27	2.74E-05
15079	-0.11	2.92E-05
15084	-0.21	4.32E-04
15086	-0.12	1.32E-05
15088	-0.08	1.96E-03
15092	0.10	5.19E-05
15103	-0.09	2.04E-03
15113	-0.21	1.19E-08
15114	-0.08	3.57E-03
15115	-0.14	2.27E-07
15128	0.14	4.27E-09
15131	-0.16	2.48E-10
15135	-0.06	7.96E-03
15150	0.13	5.71E-05
15164	0.12	1.13E-06

11382	-0.10	6.71E-05	15168	-0.13	2.33E-06
11384	-0.16	4.73E-10	15172	0.14	4.12E-08
11386	-0.19	5.77E-06	15184	-0.12	1.53E-06
11390	-0.16	6.09E-09	15187	-0.23	4.33E-06
11396	0.15	3.93E-09	15188	-0.13	2.08E-05
11405	0.09	1.84E-03	15209	-0.07	3.14E-03
11406	-0.15	3.64E-07	15211	-0.21	7.86E-14
11408	-0.10	3.47E-04	15215	-0.09	1.81E-04
11410	-0.11	1.02E-05	15216	0.10	3.18E-03
11415	-0.33	2.75E-08	15236	-0.15	1.79E-04
11417	0.13	5.87E-06	15238	-0.12	5.47E-05
11421	-0.23	2.25E-03	15243	-0.18	4.02E-07
11425	-0.13	1.09E-06	15244	-0.23	2.46E-08
11427	-0.09	8.24E-03	15248	-0.13	6.38E-05
11432	-0.08	7.85E-04	15252	0.17	1.92E-08
11439	0.12	3.53E-03	15254	-0.09	2.96E-04
11442	0.08	2.44E-03	15260	-0.15	2.11E-08
11444	0.19	7.69E-10	15281	-0.08	3.04E-03
11446	0.16	9.54E-09	15289	-0.11	5.08E-05
11450	-0.13	8.53E-06	15291	0.12	4.26E-05
11462	0.15	1.90E-06	15293	-0.11	8.03E-05
11468	-0.19	6.01E-04	15302	0.10	2.51E-03
11471	0.13	1.13E-07	15309	0.13	5.20E-08
11475	0.09	5.57E-04	15320	-0.19	4.34E-04
11485	-0.16	1.16E-06	15331	-0.09	1.41E-03
11489	0.14	3.01E-03	15333	0.14	4.43E-08
11492	-0.15	2.13E-09	15339	-0.22	7.81E-08
11495	0.12	5.64E-08	15340	-0.07	3.32E-03
11496	-0.09	6.37E-04	15351	0.16	2.45E-08
11497	0.26	1.32E-17	15374	-0.11	1.98E-03
11499	0.14	4.41E-08	190	0.03	5.00E-02
11502	-0.10	8.17E-03	584	0.14	5.00E-02
11503	-0.10	5.69E-03	669	-0.14	5.00E-02
11520	-0.18	8.02E-05	1192	-0.05	5.00E-02
11521	0.15	2.56E-05	1227	0.12	5.00E-02
11547	0.10	1.60E-04	1316	-0.09	5.00E-02
11549	-0.19	3.90E-08	1337	0.08	5.00E-02

11551	-0.09	1.27E-04	1481	-0.05	5.00E-02
11553	0.11	8.65E-07	1493	-0.04	5.00E-02
11555	-0.15	1.25E-08	2554	0.03	5.00E-02
11556	0.17	1.20E-08	2895	0.04	5.00E-02
11562	0.11	2.56E-03	3017	0.04	5.00E-02
11569	0.10	1.81E-04	3157	-0.69	5.00E-02
11574	-0.11	4.71E-03	3462	0.03	5.00E-02
11582	0.08	1.09E-04	3774	-0.07	5.00E-02
11591	0.08	2.78E-03	3820	0.09	5.00E-02
11594	0.14	5.84E-09	4113	-0.06	5.00E-02
11600	-0.10	4.28E-05	4124	0.04	5.00E-02
11601	-0.11	1.10E-06	4949	-0.10	5.00E-02
11602	0.14	2.25E-05	4983	0.03	5.00E-02
11605	-0.19	2.09E-13	5304	-0.04	5.00E-02
11610	0.07	3.12E-03	5380	-0.04	5.00E-02
11618	0.18	2.37E-11	5447	-0.04	5.00E-02
11619	0.08	1.06E-03	6121	-0.04	5.00E-02
11628	-0.09	1.04E-04	6841	0.08	5.00E-02
11636	0.08	2.70E-03	6950	0.01	5.00E-02
11641	0.13	1.68E-05	6956	-0.03	5.00E-02
11647	-0.23	1.08E-05	7061	-0.05	5.00E-02
11649	-0.14	8.47E-09	7697	-0.03	5.00E-02
11652	-0.13	1.44E-03	7918	-0.10	5.00E-02
11656	-0.12	4.00E-03	8211	-0.05	5.00E-02
11659	-0.10	3.67E-05	8510	-0.06	5.00E-02
11680	-0.14	3.58E-08	8779	-0.08	5.00E-02
11684	0.20	3.10E-08	9066	-0.07	5.00E-02
11686	0.08	1.34E-03	9079	-0.03	5.00E-02
11692	-0.27	1.39E-08	9446	0.18	5.00E-02
11701	-0.12	1.04E-05	9644	0.09	5.00E-02
11702	0.11	2.46E-05	9824	0.03	5.00E-02
11704	0.19	3.75E-07	9934	0.03	5.00E-02
11714	-0.09	1.49E-03	10099	-0.08	5.00E-02
11719	-0.11	3.04E-04	10352	0.02	5.00E-02
11721	0.09	6.05E-04	10620	0.07	5.00E-02
11722	-0.10	2.96E-05	10701	0.40	5.00E-02
11726	0.10	3.14E-05	10761	-0.04	5.00E-02
11728	-0.16	7.07E-06	10826	0.12	5.00E-02

11733	-0.14	3.58E-03	11004	0.03	5.00E-02
11742	0.16	6.05E-04	11104	0.06	5.00E-02
11748	-0.14	5.26E-05	11279	-0.04	5.00E-02
11754	-0.12	1.24E-04	11361	-0.03	5.00E-02
11756	0.13	3.78E-07	11411	0.05	5.00E-02
11771	0.07	7.21E-03	11507	-0.11	5.00E-02
11788	-0.18	2.34E-05	11526	0.16	5.00E-02
11795	0.10	2.02E-03	11820	0.35	5.00E-02
11809	-0.13	1.99E-05	12002	0.09	5.00E-02
11816	0.11	2.57E-03	12075	0.11	5.00E-02
11818	-0.15	1.47E-04	12164	0.04	5.00E-02
11825	0.07	7.80E-03	12372	-0.04	5.00E-02
11833	-0.17	4.79E-07	12402	0.12	5.00E-02
11844	0.09	1.94E-04	12425	-0.42	5.00E-02
11847	0.13	3.28E-06	12669	0.04	5.00E-02
11863	-0.07	2.55E-03	12741	0.32	5.00E-02
11866	-0.13	1.79E-07	12745	-0.43	5.00E-02
11874	0.14	2.83E-03	12971	-0.14	5.00E-02
11887	-0.13	1.39E-06	12985	0.08	5.00E-02
11888	-0.17	1.79E-04	13168	-0.09	5.00E-02
11890	-0.11	5.98E-07	13290	0.34	5.00E-02
11897	0.13	3.39E-07	13334	-0.22	5.00E-02
11898	-0.16	5.89E-11	13660	-0.20	5.00E-02
11900	-0.22	1.88E-09	13748	-0.19	5.00E-02
11901	0.08	4.96E-04	13875	0.26	5.00E-02
11902	-0.19	3.01E-04	14177	0.23	5.00E-02
11903	0.14	3.48E-04	14408	0.30	5.00E-02
11908	0.10	1.42E-04	14548	-0.69	5.00E-02
11911	-0.11	3.59E-03	14607	-0.16	5.00E-02
11912	-0.13	9.04E-04	14691	-0.24	5.00E-02
11917	-0.21	4.99E-05	14849	0.18	5.00E-02
11920	0.14	4.43E-07	14986	-0.23	5.00E-02
11929	0.08	5.41E-05	15116	-0.15	5.00E-02
11936	-0.07	3.28E-03	15154	0.25	5.00E-02
11939	-0.11	2.02E-04	15222	0.13	5.00E-02
11940	-0.09	3.75E-04	15313	0.07	5.00E-02
11947	-0.07	5.73E-03	2422	-0.10	3.99E-05

11959	0.15	3.13E-05	2427	-0.10	3.33E-05
11960	-0.12	6.18E-03	2432	0.10	4.55E-08
11961	-0.24	3.43E-23	2446	0.10	1.09E-05
11967	0.12	1.53E-03	2447	-0.10	6.45E-06
11972	-0.17	3.98E-03	2450	-0.10	1.92E-04
11976	-0.14	8.77E-05	2452	0.20	3.21E-04
11977	-0.07	2.23E-03	2453	-0.10	5.62E-04
11983	0.17	7.38E-03	2465	-0.20	1.92E-24
11999	0.07	7.91E-03	2466	-0.20	2.05E-11
12000	-0.17	8.33E-11	2470	-0.20	8.13E-08
12010	0.12	7.70E-05	2471	0.30	1.25E-23
12022	-0.29	1.16E-11	2472	-0.20	1.75E-07
12032	0.16	1.18E-09	2479	0.10	8.70E-08
12036	0.08	2.31E-03	4905	-0.10	7.46E-05
12039	0.08	2.34E-03	4909	-0.10	3.08E-09
12045	-0.20	7.28E-06	4911	0.10	1.42E-05
12052	-0.10	7.70E-03	4914	-0.10	2.57E-04
12058	0.09	1.48E-04	4916	-0.10	3.06E-06
12060	0.11	1.31E-04	4920	0.10	4.11E-03
12067	-0.13	7.34E-04	4927	0.10	2.33E-03
12073	-0.14	5.58E-06	4929	-0.10	3.38E-04
12076	0.11	6.75E-06	4934	0.10	7.06E-04
12081	-0.08	8.11E-04	4936	-0.10	8.90E-03
12086	-0.07	4.64E-03	4937	0.10	1.67E-06
12090	0.10	3.04E-05	4938	0.10	2.50E-06
12095	-0.14	1.20E-06	4946	-0.10	3.02E-05
12110	-0.14	7.99E-04	4951	0.10	3.26E-04
12115	-0.20	2.07E-07	7311	-0.10	8.30E-05
12121	0.08	4.66E-03	7313	0.10	4.01E-08
12126	0.10	3.79E-05	7315	-0.20	7.77E-07
12137	0.13	1.90E-05	7316	-0.10	2.71E-03
12141	-0.07	7.95E-05	7317	-0.10	3.69E-03
12147	0.11	2.62E-04	7321	-0.10	1.93E-03
12153	-0.13	2.44E-05	7322	-0.10	9.38E-05
12154	-0.07	5.08E-03	7323	-0.20	1.32E-04
12162	-0.11	2.83E-06	7324	-0.10	8.48E-03
12166	-0.15	1.38E-05	7329	-0.20	8.77E-03
12168	0.13	3.77E-06	7331	0.20	4.79E-05

12170	-0.09	1.74E-03	7335	-0.10	3.39E-03
12173	0.09	1.65E-03	7338	-0.10	2.21E-04
12174	-0.17	3.83E-13	7340	-0.10	1.51E-03
12175	0.11	2.89E-06	9670	0.10	1.46E-04
12178	-0.07	6.58E-03	9671	0.19	2.15E-11
12186	0.14	9.44E-09	9672	-0.17	1.61E-10
12187	-0.12	7.99E-07	9676	0.17	1.10E-10
12190	-0.12	9.51E-06	9680	0.18	2.38E-13
12193	-0.09	5.27E-04	9682	-0.11	2.44E-06
12200	0.11	2.15E-05	9684	0.07	5.22E-03
12207	-0.11	1.54E-03	9685	-0.13	1.51E-04
12214	0.08	8.35E-03	9687	-0.08	2.05E-03
12215	-0.19	5.06E-06	9689	-0.20	4.33E-04
12228	-0.27	1.41E-08	9690	-0.12	3.51E-05
12230	0.14	5.67E-04	9691	-0.07	4.45E-03
12232	0.16	2.40E-10	9694	0.13	5.02E-06
12233	-0.10	6.38E-04	9695	-0.17	8.09E-04
12235	-0.14	5.20E-04	12820	0.18	1.00E-05
12241	-0.21	2.77E-07	12827	-0.15	1.25E-03
12242	-0.14	2.54E-08	12833	-0.15	6.52E-09
12253	-0.09	6.59E-04	12837	0.09	1.72E-03
12261	-0.08	5.49E-03	12840	-0.23	3.76E-06
12262	-0.07	9.08E-03	12847	-0.16	8.75E-05
12280	0.09	4.79E-04	12849	-0.10	1.37E-05
12284	0.15	5.25E-10	12850	0.10	3.73E-05
12286	0.19	1.21E-07	12856	0.09	4.83E-04
12288	0.18	3.15E-12	12865	0.23	1.06E-04
12291	0.24	7.02E-28	12876	-0.14	1.98E-06
12292	0.15	4.26E-10	12881	0.10	8.82E-05
12293	-0.27	6.38E-12	12882	-0.14	3.51E-04
12302	0.13	6.98E-06	12885	0.14	1.74E-08
12304	-0.07	1.67E-03	2393	-0.10	3.93E-03
12310	0.24	1.64E-06	2394	-0.10	2.15E-05
12317	0.07	1.34E-03	2396	-0.10	6.32E-04
12322	0.14	1.12E-09	2398	0.10	3.56E-03
12326	-0.08	1.84E-03	2400	0.10	4.39E-07
12329	0.09	2.32E-03	2401	-0.10	1.19E-04

12334	-0.14	2.73E-08	2404	-0.10	8.68E-03
12336	0.14	2.05E-09	2406	0.10	2.95E-05
12343	-0.19	1.52E-04	2413	0.10	2.14E-07
12344	0.13	3.08E-08	2414	0.10	2.52E-07
12353	0.08	2.76E-03	2418	-0.10	1.04E-06
12355	0.10	2.85E-03	4848	-0.10	7.22E-04
12356	-0.14	1.06E-05	4852	-0.10	8.37E-03
12358	-0.14	2.00E-09	4858	-0.20	1.01E-10
12368	0.07	1.06E-03	4863	-0.10	1.49E-04
12376	0.11	3.83E-05	4864	-0.10	1.41E-05
12377	0.07	6.83E-03	4871	-0.10	7.27E-04
12381	-0.12	2.97E-04	4877	0.10	1.72E-03
12389	-0.09	1.59E-03	4878	-0.10	1.34E-03
12391	-0.11	6.23E-03	4887	-0.10	4.46E-03
12393	0.10	1.23E-05	4894	-0.10	8.87E-08
12400	-0.07	7.38E-03	4898	0.10	2.31E-11
12404	-0.07	7.75E-03	7255	0.20	6.26E-05
12409	0.11	3.44E-06	7269	0.20	2.69E-09
12412	-0.16	4.26E-11	7270	-0.10	1.68E-04
12415	0.26	3.72E-05	7271	-0.10	9.72E-08
12419	0.10	2.51E-03	7279	-0.20	5.63E-15
12433	0.11	1.76E-05	7282	-0.10	4.92E-05
12456	0.07	1.65E-03	7285	0.10	3.89E-03
12457	-0.08	6.64E-03	7289	0.10	2.79E-04
12458	0.12	4.07E-07	7293	-0.10	2.49E-04
12462	0.17	2.69E-12	7300	0.10	1.67E-04
12465	-0.19	4.58E-06	7304	-0.20	7.29E-06
12466	-0.14	7.62E-07	9628	-0.16	3.15E-04
12469	-0.17	5.41E-07	9633	-0.14	8.88E-03
12477	-0.19	4.22E-08	9636	-0.23	9.28E-13
12482	-0.13	1.30E-04	9640	-0.08	8.42E-04
12483	0.07	8.14E-03	9645	0.06	4.80E-03
12487	-0.12	9.81E-03	9646	-0.15	2.35E-08
12489	-0.11	2.21E-03	9647	-0.26	1.01E-06
12491	0.13	2.26E-07	9654	-0.16	9.99E-03
12493	-0.08	4.77E-04	9660	-0.14	9.56E-08
12498	0.08	1.06E-03	9664	-0.11	8.21E-04

12506	0.09	1.11E-03	9665	-0.21	7.63E-12
12509	-0.17	6.13E-07	12749	-0.06	7.08E-03
12510	-0.08	6.83E-03	12754	-0.12	1.08E-03
12518	0.11	7.22E-06	12756	-0.10	1.63E-03
12521	0.16	1.02E-10	12760	-0.08	1.66E-03
12522	-0.11	2.42E-05	12766	-0.19	7.76E-07
12524	0.18	8.89E-14	12786	0.07	8.66E-03
12529	0.12	8.67E-06	12794	-0.12	1.21E-06
12536	-0.15	2.56E-08	12799	0.26	5.84E-19
12544	0.19	1.05E-11	12804	-0.18	4.00E-03
12546	-0.09	4.84E-05	12807	-0.08	3.68E-03
12547	-0.18	2.71E-12	12816	-0.13	1.48E-04
12565	0.14	6.22E-04	2373	-0.10	5.80E-03
12566	-0.10	2.78E-04	2383	-0.10	7.94E-03
12572	-0.08	1.00E-03	2388	-0.10	2.82E-04
12573	0.14	3.05E-05	2389	-0.20	2.54E-13
12577	-0.14	1.52E-08	2391	-0.10	6.76E-03
12583	-0.13	4.54E-04	4831	-0.10	2.02E-03
12584	-0.21	3.22E-12	4834	-0.30	3.18E-06
12588	-0.20	2.87E-05	4835	0.20	1.36E-05
12590	-0.19	4.21E-06	4839	-0.10	1.67E-03
12591	-0.09	4.14E-04	4843	0.10	8.99E-06
12592	0.12	1.01E-05	7238	-0.20	1.91E-09
12597	-0.08	1.31E-03	7239	-0.20	1.58E-03
12598	-0.16	3.34E-07	7245	0.10	1.68E-03
12602	-0.08	1.38E-03	7251	0.10	6.81E-04
12605	-0.18	3.50E-14	7252	-0.20	3.40E-03
12613	-0.21	1.58E-12	9604	-0.10	7.47E-03
12617	-0.12	1.13E-03	9609	0.17	3.26E-09
12625	0.13	1.07E-07	9615	-0.10	2.64E-04
12626	0.09	1.74E-03	9617	-0.18	4.23E-08
12627	-0.13	4.80E-03	9620	-0.17	9.99E-03
12630	0.10	3.59E-03	12718	-0.13	3.87E-04
12639	0.13	4.46E-03	12725	-0.27	6.60E-17
12642	0.08	1.62E-03	12728	-0.18	1.24E-05
12644	-0.11	3.64E-05	12740	-0.13	6.76E-07
12655	-0.13	1.08E-06	12742	-0.08	3.80E-03
12656	-0.24	1.01E-15	2358	0.10	5.67E-03

12657	0.18	6.69E-09
12658	-0.13	2.20E-06
12662	0.08	5.15E-03
12665	0.11	1.15E-03
12668	-0.21	1.53E-12
12673	-0.16	8.48E-11
12675	-0.13	3.68E-06
12680	-0.12	4.22E-04
12682	0.14	1.40E-04
12683	-0.12	5.90E-06
12686	0.16	1.18E-03
12693	0.14	1.26E-08
12702	-0.29	2.74E-04
12706	0.14	1.21E-08

2362	-0.10	5.95E-05
2369	-0.10	8.11E-03
4813	-0.10	5.47E-03
4816	-0.10	6.97E-03
4827	0.30	3.13E-12
7231	0.10	1.06E-03
7232	-0.20	5.57E-20
7233	0.20	2.55E-11
9594	-0.10	3.24E-04
9595	-0.09	4.64E-03
9598	-0.16	3.29E-07

TABLE 30 - GENETIC MARKERS FOR REAR LEG VIEW

3	0.10	1.09E-10	2166	-0.10	1.95E-03	4602	0.10	5.85E-04
21	-0.10	3.91E-06	2172	0.10	7.92E-04	4605	0.10	3.88E-05
22	-0.10	1.37E-04	2177	0.10	2.47E-04	4608	-0.10	6.38E-03
26	0.10	2.04E-03	2200	-0.10	2.57E-04	4609	0.10	4.20E-05
38	-0.10	8.93E-03	2210	-0.10	1.08E-07	4616	-0.10	5.41E-07
46	-0.10	3.64E-05	2212	0.10	4.34E-04	4619	0.00	4.10E-03
51	0.10	9.71E-04	2224	0.10	2.77E-03	4620	0.10	3.85E-03
52	0.00	5.28E-03	2243	-0.10	5.66E-05	4621	-0.10	6.98E-04
53	-0.10	9.48E-03	2275	0.00	4.24E-03	4622	0.00	6.42E-03
55	0.20	5.38E-07	2293	0.10	5.70E-06	4634	-0.10	4.80E-05
57	0.00	7.91E-03	2294	0.10	7.35E-06	4650	0.10	1.74E-04
67	0.10	5.88E-03	2306	0.10	6.12E-03	4662	-0.10	4.65E-03
77	-0.10	9.91E-04	2311	0.00	5.11E-03	4664	0.10	5.99E-06
93	0.00	5.17E-03	2317	0.10	3.93E-06	4688	-0.10	2.78E-03
101	-0.10	2.33E-06	2324	-0.10	9.85E-06	4699	0.10	1.66E-04
118	0.00	9.90E-03	2329	-0.10	1.68E-09	4703	-0.10	1.62E-04
123	-0.10	1.01E-05	2330	0.10	8.97E-04	4710	-0.10	1.97E-04
130	0.00	9.59E-03	2345	-0.10	5.06E-04	4726	-0.10	7.60E-06
131	0.10	1.21E-03	2355	0.10	3.78E-03	4732	0.00	6.40E-03
132	-0.10	8.64E-06	2371	-0.10	7.18E-03	4733	0.10	9.82E-03
135	-0.10	4.91E-04	2373	-0.10	2.94E-03	4734	0.10	2.56E-03
138	0.00	8.02E-03	2393	0.00	3.69E-03	4752	0.00	9.44E-03
141	0.10	3.60E-05	2406	0.10	1.33E-05	4758	-0.10	4.69E-03
145	-0.10	4.82E-03	2410	-0.10	1.00E-03	4760	-0.10	4.93E-04
155	0.10	1.72E-07	2418	-0.10	1.82E-03	4761	-0.10	5.57E-04
156	0.00	5.52E-03	2419	-0.10	5.59E-08	4764	0.10	1.00E-03
162	-0.10	7.28E-03	2421	0.00	6.10E-03	4780	-0.10	2.25E-04
167	-0.10	4.30E-03	2430	-0.10	9.09E-04	4800	-0.10	1.62E-03
171	0.00	9.64E-03	2446	-0.10	3.73E-05	4820	-0.10	1.95E-03
189	-0.10	8.62E-03	2466	-0.10	6.08E-06	4838	-0.10	3.09E-03
191	-0.10	5.92E-04	2481	0.10	5.17E-03	4841	-0.10	8.91E-05
193	-0.10	9.83E-04	2488	0.10	9.84E-03	4848	-0.10	1.93E-03
201	0.10	3.61E-03	2502	0.10	4.67E-04	4859	0.00	9.82E-03
203	0.10	7.99E-05	2511	-0.10	2.57E-04	4870	-0.10	2.85E-03
215	-0.10	4.70E-03	2513	-0.10	7.68E-04	4871	-0.10	3.49E-04

220	-0.10	1.97E-03	2514	0.00	8.50E-03	4877	-0.10	5.11E-03
238	0.10	9.60E-03	2524	-0.10	3.04E-03	4887	-0.10	1.82E-03
242	-0.10	1.16E-03	2525	-0.10	3.21E-03	4890	-0.10	7.84E-03
244	0.00	8.74E-03	2537	0.00	5.20E-03	4896	0.10	3.21E-08
246	-0.10	8.87E-04	2540	0.00	7.88E-03	4898	0.10	4.97E-04
250	0.10	7.17E-03	2545	-0.10	2.70E-06	4899	-0.10	7.33E-07
270	0.00	2.25E-03	2550	-0.10	2.30E-03	4900	0.10	8.03E-04
273	-0.10	3.61E-03	2553	0.10	2.78E-03	4905	-0.10	2.60E-06
289	0.10	8.54E-05	2556	-0.10	4.27E-05	4906	-0.10	5.47E-03
298	0.00	9.51E-03	2557	0.10	2.97E-04	4937	0.10	1.31E-04
301	0.00	1.00E-02	2559	-0.10	7.33E-03	4941	0.10	8.73E-04
305	-0.10	4.44E-04	2570	-0.10	2.19E-05	4948	-0.10	9.66E-05
308	-0.10	7.51E-03	2583	-0.10	5.16E-03	4966	0.10	2.38E-03
309	0.10	2.31E-04	2596	0.10	9.98E-03	4970	0.10	7.87E-03
312	-0.10	3.25E-04	2608	0.00	7.37E-03	4974	0.10	3.96E-03
315	0.10	3.30E-06	2614	0.10	4.83E-03	4976	-0.10	3.24E-06
326	-0.10	6.41E-04	2615	-0.10	7.43E-05	4982	0.10	7.57E-06
333	0.10	1.60E-03	2626	0.00	9.76E-03	4986	-0.10	2.34E-03
336	0.00	9.09E-03	2632	-0.10	1.43E-03	4991	-0.10	7.43E-04
347	-0.10	2.64E-03	2647	0.10	7.17E-03	5004	-0.10	9.03E-03
348	0.00	4.54E-03	2650	0.10	1.47E-03	5005	-0.10	8.88E-03
367	0.10	4.63E-04	2657	0.10	7.40E-03	5013	0.10	4.05E-03
377	-0.10	7.22E-03	2664	-0.10	4.16E-03	5028	-0.10	8.71E-04
381	0.10	2.86E-03	2665	-0.10	5.83E-03	5030	-0.10	4.85E-05
393	0.10	4.00E-04	2668	0.00	5.51E-03	5036	0.10	2.64E-08
394	0.00	3.52E-03	2677	-0.10	4.53E-04	5041	0.10	2.14E-03
397	0.10	1.28E-03	2688	-0.10	1.29E-03	5053	0.10	2.92E-03
406	0.10	4.20E-06	2714	-0.10	7.16E-03	5055	0.10	7.58E-03
407	-0.10	3.01E-05	2716	0.10	2.80E-03	5070	0.10	5.83E-03
408	-0.10	2.35E-03	2720	-0.10	5.49E-03	5079	-0.10	1.07E-03
413	-0.10	7.51E-06	2730	-0.10	2.35E-03	5080	-0.10	4.48E-04
435	0.10	8.86E-03	2731	-0.10	4.23E-03	5083	-0.10	1.18E-03
438	0.10	3.19E-04	2733	0.10	6.72E-03	5095	-0.10	4.95E-03
441	0.10	1.49E-03	2738	-0.10	4.76E-06	5098	-0.10	5.16E-05
478	0.10	3.36E-05	2739	-0.10	7.95E-06	5101	0.10	1.69E-03
479	-0.10	2.86E-03	2743	0.10	1.52E-05	5116	0.10	4.43E-03
481	0.10	3.06E-03	2754	0.10	2.69E-04	5117	-0.10	3.67E-03
497	-0.10	6.01E-03	2774	0.10	4.69E-03	5124	-0.10	6.70E-07

499	0.10	5.90E-03	2781	0.10	4.70E-04	5134	-0.10	1.74E-06
505	-0.10	8.02E-03	2788	0.10	1.25E-03	5135	-0.10	7.23E-08
508	0.10	1.14E-05	2789	0.10	3.11E-03	5142	0.10	7.67E-06
509	0.10	3.54E-05	2795	0.10	1.76E-03	5143	-0.10	6.08E-03
521	0.00	6.75E-03	2832	-0.10	3.03E-04	5149	0.00	5.43E-03
526	-0.10	2.95E-03	2839	-0.10	2.93E-03	5161	-0.10	8.88E-03
529	-0.10	5.57E-04	2872	0.10	1.49E-03	5165	0.10	8.17E-04
531	0.10	1.30E-03	2899	-0.10	4.22E-04	5166	-0.10	1.34E-05
534	-0.10	7.34E-05	2905	0.10	7.94E-03	5172	-0.10	2.14E-03
544	-0.10	1.06E-08	2907	-0.10	3.00E-05	5185	-0.10	2.86E-03
553	0.00	5.95E-03	2944	-0.10	1.16E-04	5207	0.10	6.32E-03
564	-0.10	9.83E-06	2952	-0.10	1.53E-03	5211	0.10	8.75E-04
576	0.10	4.26E-03	2955	-0.10	8.12E-03	5221	0.10	3.09E-03
617	-0.10	5.33E-03	2959	-0.10	4.88E-06	5229	-0.10	2.02E-03
633	0.10	8.78E-03	2970	-0.10	3.31E-03	5230	0.00	1.00E-02
636	0.00	5.91E-03	2971	-0.10	7.28E-04	5247	-0.10	4.44E-03
637	0.00	7.69E-03	2995	0.00	5.25E-03	5261	-0.10	2.47E-04
643	-0.10	2.22E-04	3003	-0.10	2.41E-04	5263	0.10	6.59E-03
653	0.10	9.99E-03	3036	0.10	3.81E-04	5273	-0.10	2.25E-05
667	-0.10	3.86E-04	3037	-0.10	3.16E-04	5274	-0.10	2.37E-05
673	0.10	6.63E-03	3053	0.10	1.56E-03	5275	-0.10	5.40E-06
678	-0.10	6.55E-05	3057	0.10	3.39E-04	5279	0.00	5.93E-03
690	0.00	8.45E-03	3074	0.10	1.86E-05	5291	-0.10	5.67E-04
708	-0.10	7.60E-03	3100	0.10	7.75E-04	5298	-0.10	2.59E-03
718	-0.10	5.32E-03	3104	-0.10	3.15E-04	5355	0.10	1.15E-04
735	-0.10	3.47E-04	3107	-0.10	1.13E-03	5366	0.00	6.04E-03
736	0.10	1.04E-03	3114	-0.10	1.29E-06	5384	0.10	8.44E-04
747	-0.10	5.34E-06	3125	-0.10	5.03E-04	5395	0.10	1.20E-03
757	0.00	4.92E-03	3149	0.10	5.56E-04	5406	0.00	6.42E-03
769	-0.10	1.18E-04	3154	0.10	3.50E-03	5412	-0.10	2.00E-03
779	-0.10	2.40E-04	3160	0.10	3.90E-04	5419	0.10	4.28E-03
781	0.10	7.60E-03	3161	0.10	3.01E-04	5426	-0.10	1.44E-07
801	-0.10	3.91E-03	3168	0.10	5.42E-04	5427	-0.10	1.58E-07
806	0.10	1.15E-03	3180	-0.10	1.65E-03	5431	-0.10	7.46E-03
831	-0.10	4.86E-03	3196	0.10	6.78E-04	5446	-0.10	4.45E-04
833	-0.10	5.10E-03	3213	-0.10	8.51E-03	5459	0.10	1.03E-04
841	-0.10	4.56E-03	3267	0.10	7.86E-03	5477	0.10	2.59E-03
849	-0.10	8.81E-06	3270	0.10	7.40E-03	5481	-0.10	5.88E-03

856	0.10	5.31E-03	3302	0.10	2.33E-06	5491	0.10	1.06E-03
867	-0.10	1.64E-03	3303	0.10	2.66E-06	5501	0.10	1.01E-05
871	0.10	1.92E-03	3321	0.00	5.12E-03	5502	0.10	5.62E-06
873	-0.10	6.29E-04	3334	-0.10	2.11E-03	5522	-0.10	1.05E-04
875	-0.10	1.99E-04	3337	-0.10	4.23E-06	5536	-0.10	5.71E-04
922	0.10	1.51E-03	3341	0.10	6.57E-03	5548	0.10	1.16E-03
923	0.10	1.73E-03	3361	-0.10	1.83E-03	5552	0.10	4.31E-03
924	0.10	1.18E-03	3367	0.10	2.90E-04	5561	-0.10	9.14E-04
928	0.10	4.31E-04	3385	0.00	3.21E-03	5567	-0.10	5.70E-04
932	-0.10	7.62E-03	3403	-0.10	3.42E-03	5584	0.10	7.67E-03
935	-0.10	6.06E-04	3433	-0.10	3.22E-04	5592	0.10	4.65E-03
939	0.10	1.30E-04	3456	-0.10	8.47E-05	5614	-0.10	2.11E-03
945	0.10	1.17E-03	3470	0.10	8.15E-06	5624	-0.10	5.74E-03
954	-0.10	1.13E-06	3471	-0.10	9.26E-03	5625	-0.10	1.44E-03
963	-0.10	5.89E-04	3475	0.10	9.81E-03	5627	0.10	2.52E-04
979	0.10	4.56E-06	3489	0.10	4.06E-06	5630	0.10	5.13E-03
989	0.10	2.13E-03	3497	-0.10	1.49E-05	5646	0.00	6.49E-03
997	-0.10	6.55E-03	3515	0.10	2.12E-03	5663	0.10	8.97E-03
1006	0.10	1.85E-03	3527	0.10	8.04E-04	5664	0.10	7.73E-03
1010	-0.10	1.67E-03	3531	0.10	9.19E-04	5667	-0.10	5.51E-03
1021	0.10	9.47E-04	3538	-0.10	1.22E-04	5687	0.10	3.58E-06
1033	-0.10	4.38E-05	3539	0.10	6.09E-04	5710	0.10	5.82E-04
1037	-0.10	4.88E-04	3568	-0.10	1.28E-03	5713	0.10	1.74E-03
1048	-0.10	8.09E-03	3569	-0.10	6.12E-03	5714	0.00	3.15E-03
1063	0.10	4.28E-03	3574	-0.10	3.12E-03	5722	-0.10	1.24E-03
1098	-0.10	1.11E-04	3576	0.10	4.50E-04	5723	-0.10	4.83E-04
1104	0.10	1.57E-05	3589	0.10	2.09E-03	5730	0.10	4.35E-03
1105	0.00	4.95E-03	3596	-0.10	4.69E-07	5731	0.10	9.93E-08
1110	0.10	9.39E-04	3604	0.10	1.24E-07	5736	-0.10	2.63E-05
1113	-0.10	9.66E-05	3617	-0.10	1.21E-03	5746	-0.10	6.81E-05
1128	-0.10	5.55E-06	3630	-0.10	1.67E-03	5752	0.10	1.53E-06
1129	-0.10	5.73E-06	3637	0.10	3.21E-03	5774	-0.10	7.47E-03
1139	0.10	1.04E-03	3656	-0.10	9.38E-05	5776	-0.10	1.30E-03
1183	-0.10	2.45E-04	3667	0.10	8.28E-03	5784	-0.10	2.07E-04
1191	-0.10	1.29E-03	3668	0.00	7.90E-03	5785	-0.20	1.23E-11
1193	0.10	4.94E-04	3676	-0.10	8.07E-03	5790	-0.10	3.81E-03
1194	0.10	2.49E-06	3683	-0.10	2.26E-06	5795	0.10	8.90E-03
1224	0.10	1.40E-04	3684	0.10	2.95E-04	5800	-0.10	2.07E-05

1232	0.10	3.45E-03	3700	0.10	1.59E-03	5821	0.00	8.41E-03
1241	0.10	4.43E-03	3701	-0.10	8.07E-03	5824	-0.10	9.03E-03
1247	0.00	8.98E-03	3705	0.10	7.90E-03	5828	-0.10	5.62E-03
1267	0.10	4.62E-04	3706	-0.10	4.54E-04	5849	0.10	9.06E-04
1276	-0.10	7.72E-05	3711	-0.10	1.60E-03	5852	-0.10	6.76E-06
1293	-0.10	2.34E-03	3722	0.00	7.30E-03	5870	0.10	7.52E-08
1301	0.10	2.81E-03	3728	0.10	3.76E-03	5876	0.10	2.11E-03
1322	-0.10	7.25E-03	3730	0.10	3.81E-04	5877	-0.10	1.43E-04
1335	0.10	6.00E-04	3740	0.10	2.01E-03	5884	-0.10	7.98E-05
1350	-0.10	3.80E-03	3750	-0.10	1.98E-03	5896	-0.10	4.92E-03
1356	0.10	1.31E-06	3754	0.00	7.01E-03	5897	0.00	3.89E-03
1364	0.10	2.16E-03	3755	0.10	7.56E-03	5901	-0.10	2.70E-04
1379	0.00	9.26E-03	3772	-0.10	4.49E-06	5904	0.00	8.77E-03
1380	-0.10	1.34E-03	3784	0.10	8.83E-04	5905	-0.10	1.91E-03
1383	0.10	2.71E-07	3787	0.10	6.41E-03	5906	-0.10	3.55E-05
1401	-0.10	8.96E-06	3792	0.10	6.06E-05	5916	0.10	1.40E-04
1404	-0.10	8.10E-06	3796	-0.10	1.81E-04	5927	-0.10	1.91E-03
1410	-0.10	4.25E-06	3797	-0.10	6.94E-05	5929	-0.10	3.75E-05
1413	0.10	2.75E-06	3798	-0.10	5.40E-04	5934	-0.10	6.71E-06
1415	0.00	5.71E-03	3812	0.00	3.87E-03	5955	0.10	7.30E-04
1427	0.10	1.41E-03	3822	-0.10	3.27E-03	5957	0.10	6.97E-03
1450	0.10	7.03E-04	3834	-0.10	5.71E-03	5958	0.10	4.47E-03
1467	0.00	9.14E-03	3842	-0.10	2.04E-05	5969	-0.10	2.94E-04
1498	0.00	5.81E-03	3846	-0.10	1.73E-03	5970	0.10	2.59E-08
1501	0.10	1.57E-07	3856	0.10	5.81E-03	5975	0.00	6.83E-03
1502	0.10	9.52E-04	3884	-0.10	1.45E-03	6007	0.10	3.33E-05
1504	-0.10	5.32E-04	3892	-0.10	3.31E-03	6008	0.10	4.98E-06
1516	-0.10	1.00E-03	3902	-0.10	5.68E-04	6020	0.10	1.89E-03
1521	0.10	6.87E-03	3916	-0.10	2.58E-07	6021	0.10	2.10E-03
1524	-0.10	4.43E-04	3927	-0.10	1.41E-04	6033	-0.10	2.82E-06
1526	-0.10	2.45E-03	3929	0.10	1.67E-06	6040	0.10	7.86E-04
1533	0.10	3.47E-03	3931	-0.10	4.46E-04	6045	-0.10	5.03E-03
1550	0.00	1.84E-03	3946	0.10	2.27E-06	6058	-0.10	1.64E-04
1559	0.10	1.59E-04	3950	0.10	8.29E-05	6070	-0.10	1.81E-03
1569	-0.10	3.59E-03	3961	-0.10	5.22E-06	6083	0.10	9.48E-03
1570	-0.10	4.34E-03	3965	0.10	4.04E-04	6089	-0.10	1.89E-07
1571	-0.10	8.89E-04	3988	-0.10	4.74E-03	6092	-0.10	6.41E-03
1582	-0.10	7.17E-07	3989	0.10	2.88E-03	6093	-0.10	8.66E-03

1585	-0.10	1.53E-05	4010	0.10	6.83E-03	6104	0.00	6.71E-03
1596	0.10	6.02E-05	4035	0.10	4.79E-05	6124	0.10	6.85E-03
1601	-0.10	6.79E-05	4038	-0.10	3.61E-03	6150	0.10	1.23E-03
1613	0.10	2.74E-06	4039	0.10	1.40E-07	6175	0.10	6.68E-04
1616	-0.10	8.61E-04	4051	-0.10	2.10E-05	6201	-0.10	4.03E-03
1618	0.10	1.22E-03	4052	-0.10	6.16E-07	6221	0.10	1.64E-03
1628	-0.10	2.12E-03	4055	0.10	2.35E-03	6239	-0.10	1.13E-05
1629	-0.10	1.65E-03	4057	-0.10	3.41E-06	6240	-0.10	1.49E-07
1635	-0.10	1.53E-06	4067	-0.10	1.92E-04	6241	0.10	2.42E-03
1648	0.10	9.31E-04	4075	-0.10	6.14E-06	6249	0.10	3.94E-04
1650	0.00	6.23E-03	4081	0.10	2.03E-03	6250	0.10	3.49E-03
1664	0.00	9.00E-03	4091	-0.10	6.47E-03	6253	-0.10	1.75E-03
1686	0.10	1.17E-03	4106	-0.10	5.71E-11	6258	-0.10	1.15E-04
1690	0.10	3.84E-04	4117	-0.10	1.94E-06	6262	0.10	2.89E-04
1691	-0.10	1.79E-05	4119	0.10	2.63E-04	6264	-0.10	7.29E-03
1702	0.10	5.02E-03	4137	0.10	7.40E-03	6268	0.10	1.69E-04
1705	-0.10	1.23E-03	4154	-0.10	2.28E-03	6271	0.10	9.42E-03
1706	0.10	1.11E-04	4156	0.10	1.45E-03	6294	0.00	3.87E-03
1714	0.10	2.66E-03	4159	0.10	6.60E-05	6296	-0.10	1.00E-03
1737	0.10	2.01E-03	4163	-0.10	4.15E-06	6303	0.10	3.17E-06
1755	0.00	7.27E-03	4170	0.10	7.09E-03	6304	0.10	8.63E-06
1757	-0.10	8.33E-03	4187	0.10	4.35E-03	6310	0.10	1.19E-03
1776	-0.10	1.97E-03	4188	-0.10	3.85E-04	6316	0.10	4.61E-03
1795	-0.10	5.30E-03	4197	0.10	2.39E-03	6323	0.10	2.84E-03
1802	0.10	6.61E-03	4198	0.10	5.78E-04	6326	0.10	8.65E-03
1805	-0.10	1.21E-04	4202	-0.10	1.02E-03	6330	-0.10	4.52E-04
1809	-0.10	9.29E-05	4238	0.10	1.53E-03	6345	0.10	9.55E-07
1815	-0.10	5.31E-06	4245	-0.10	2.31E-05	6366	0.10	1.18E-03
1825	-0.10	1.11E-03	4265	0.10	3.58E-04	6369	0.10	3.81E-03
1830	-0.10	5.51E-06	4266	-0.10	9.92E-03	6382	-0.10	9.79E-06
1836	-0.10	3.07E-04	4269	0.10	3.95E-06	6394	0.10	5.55E-08
1847	-0.10	1.40E-03	4277	0.00	5.77E-03	6402	-0.10	4.48E-03
1863	0.10	5.15E-03	4287	-0.10	2.49E-05	6406	0.10	2.88E-03
1869	-0.10	5.94E-03	4289	0.10	1.84E-04	6433	0.00	6.19E-03
1876	0.10	2.32E-04	4294	0.10	1.07E-03	6440	0.10	2.27E-04
1886	0.10	1.47E-04	4297	0.00	6.23E-03	6442	-0.10	6.06E-04
1896	0.10	9.13E-04	4298	-0.10	1.16E-05	6447	0.10	1.10E-07
1898	0.10	5.73E-03	4299	-0.10	9.26E-05	6464	0.10	3.47E-03

1904	0.10	2.23E-07	4314	0.00	1.78E-03	6471	-0.10	5.97E-03
1907	0.10	1.66E-03	4321	-0.10	8.36E-03	6479	0.10	9.50E-06
1922	-0.10	1.49E-03	4331	-0.10	2.85E-04	6494	0.10	5.34E-04
1927	-0.10	5.96E-03	4336	0.10	1.65E-06	6502	-0.10	1.35E-03
1942	-0.10	2.72E-03	4339	-0.10	6.17E-04	6517	-0.10	2.18E-03
1965	0.10	2.75E-03	4341	0.10	4.85E-09	6521	0.10	4.26E-03
1969	0.10	6.94E-03	4344	-0.10	8.61E-03	6522	0.10	1.39E-04
1977	0.10	3.20E-03	4374	0.00	9.27E-03	6528	0.00	9.99E-03
1990	-0.10	7.71E-04	4382	0.00	7.15E-03	6530	-0.10	5.90E-05
2014	0.10	2.16E-04	4398	-0.10	2.38E-04	6536	-0.10	1.62E-04
2050	-0.10	1.53E-03	4406	0.10	4.31E-03	6544	0.10	2.31E-03
2053	0.10	1.00E-03	4441	0.10	4.97E-03	6551	-0.10	1.16E-03
2056	-0.10	1.80E-04	4445	0.10	8.24E-03	6562	-0.10	2.91E-03
2057	0.10	1.29E-03	4450	-0.10	3.79E-03	6563	0.10	7.76E-05
2068	-0.10	8.23E-04	4458	0.10	1.69E-05	6577	0.10	9.63E-05
2071	0.10	3.82E-04	4472	-0.10	8.21E-03	6584	0.10	3.10E-03
2080	-0.10	5.38E-05	4486	-0.10	3.02E-03	6596	0.10	5.71E-03
2090	-0.10	3.39E-07	4492	0.10	7.82E-03	6599	-0.10	6.19E-05
2094	-0.10	2.06E-05	4499	0.10	6.96E-03	6629	-0.10	2.56E-04
2096	0.00	7.55E-03	4503	0.10	1.97E-04	6640	-0.10	5.45E-03
2105	0.10	2.83E-05	4508	-0.10	5.61E-04	6648	-0.10	8.66E-05
2125	0.10	2.75E-03	4535	-0.10	5.85E-03	6650	-0.10	1.41E-03
2126	0.10	5.24E-03	4549	-0.10	3.62E-03	6671	-0.10	1.85E-04
2130	0.10	1.29E-03	4558	0.10	4.42E-03	6683	-0.10	8.46E-04
2136	0.10	3.97E-05	4559	0.10	4.00E-03	6689	-0.10	4.09E-03
2144	0.00	4.33E-03	4564	0.10	9.03E-03	6692	0.00	9.09E-03
2152	0.10	5.43E-03	4565	0.10	7.51E-03	6704	0.00	8.35E-03
2162	-0.10	6.53E-04	4583	0.10	2.28E-03	6706	-0.10	3.98E-03
602	-0.15	5.00E-02	14047	-0.19	5.00E-02			
755	-0.04	5.00E-02	14188	0.16	5.00E-02			
1066	-0.03	5.00E-02	14272	0.06	5.00E-02			
1131	-0.04	5.00E-02	14375	-0.09	5.00E-02			
1143	-0.02	5.00E-02	14644	-0.10	5.00E-02			
1211	0.02	5.00E-02	14676	0.03	5.00E-02			
1416	-0.03	5.00E-02	14759	0.66	5.00E-02			
1546	-0.07	5.00E-02	14854	0.09	5.00E-02			
1955	-0.04	5.00E-02	14967	0.02	5.00E-02			
2457	0.06	5.00E-02	15098	-0.31	5.00E-02			

2700	-0.03	5.00E-02	15109	0.23	5.00E-02
2904	-0.21	5.00E-02	15344	0.26	5.00E-02
3478	0.03	5.00E-02			
4891	0.03	5.00E-02			
4972	0.02	5.00E-02			
5233	-0.04	5.00E-02			
5304	-0.03	5.00E-02			
5508	-0.02	5.00E-02			
5573	0.02	5.00E-02			
5582	-0.44	5.00E-02			
5851	0.03	5.00E-02			
6060	-0.07	5.00E-02			
6220	-0.04	5.00E-02			
6298	0.02	5.00E-02			
6386	0.03	5.00E-02			
6897	0.55	5.00E-02			
7776	0.53	5.00E-02			
8513	0.00	5.00E-02			
8567	0.02	5.00E-02			
9044	-0.34	5.00E-02			
9147	-0.03	5.00E-02			
9456	-0.40	5.00E-02			
####	-0.02	5.00E-02			
####	0.03	5.00E-02			
####	0.02	5.00E-02			
####	0.03	5.00E-02			
####	0.02	5.00E-02			
####	0.02	5.00E-02			
####	0.30	5.00E-02			
####	0.10	5.00E-02			
####	-0.02	5.00E-02			
####	-0.03	5.00E-02			
####	-0.02	5.00E-02			
####	0.12	5.00E-02			
####	0.03	5.00E-02			
####	-0.12	5.00E-02			
####	0.06	5.00E-02			
####	-0.07	5.00E-02			

####	-0.04	5.00E-02
####	0.11	5.00E-02
####	0.03	5.00E-02
####	-0.19	5.00E-02
####	-0.04	5.00E-02
####	0.12	5.00E-02
####	0.76	5.00E-02
####	-0.18	5.00E-02
####	-0.03	5.00E-02
####	0.16	5.00E-02
####	0.39	5.00E-02
####	-0.30	5.00E-02
####	0.18	5.00E-02
####	-0.25	5.00E-02
####	-0.27	5.00E-02
####	0.14	5.00E-02

6715	0.10	1.85E-06	8844	0.10	9.46E-03	11548	0.10	6.19E-06
6724	0.10	2.60E-04	8854	0.10	8.25E-03	11555	-0.10	1.76E-03
6738	-0.10	3.84E-04	8865	-0.10	4.27E-04	11582	-0.10	5.95E-05
6754	0.10	4.78E-03	8876	-0.10	1.93E-03	11594	-0.10	6.98E-04
6757	-0.10	2.71E-03	8888	0.10	3.63E-06	11606	0.10	6.30E-04
6760	-0.10	1.75E-03	8893	0.10	3.04E-03	11623	0.10	7.74E-04
6763	-0.10	3.49E-04	8904	-0.10	6.08E-03	11632	0.10	5.50E-04
6773	-0.10	5.00E-04	8948	0.00	8.12E-03	11636	0.00	5.16E-03
6776	0.10	8.64E-03	8950	0.10	1.31E-03	11665	0.10	2.93E-03
6782	-0.10	1.37E-10	8955	-0.10	2.04E-03	11686	-0.10	1.58E-05
6784	0.10	2.18E-03	8958	-0.10	2.22E-03	11728	-0.10	8.65E-04
6789	-0.10	6.94E-03	8966	0.00	8.60E-03	11743	-0.10	1.44E-03
6798	0.10	5.94E-03	8968	0.10	1.15E-03	11756	0.10	6.35E-05
6820	-0.10	3.34E-04	8969	0.10	7.17E-08	11769	-0.10	7.91E-03
6833	-0.10	8.89E-04	8977	0.10	4.78E-06	11809	0.10	5.53E-04
6836	0.00	9.93E-03	8995	-0.10	1.48E-03	11818	-0.10	2.73E-03
6843	-0.10	1.49E-03	9000	-0.10	3.48E-03	11848	0.10	9.75E-05
6852	-0.10	4.23E-04	9027	0.10	1.29E-06	11853	0.10	5.54E-04
6854	-0.10	6.63E-03	9052	-0.10	1.44E-04	11856	0.10	6.34E-04
6856	-0.10	3.24E-05	9057	0.00	2.40E-03	11867	0.10	7.50E-03
6862	-0.10	1.71E-03	9063	0.10	1.68E-04	11895	0.10	5.01E-03
6864	0.00	6.28E-03	9064	0.10	6.41E-05	11908	0.10	3.89E-04
6871	0.00	8.32E-03	9067	-0.10	1.75E-03	11915	-0.10	2.31E-03
6878	0.10	5.62E-04	9084	0.00	6.26E-03	11919	0.10	4.24E-04
6884	0.10	4.93E-03	9118	0.10	4.17E-03	11939	-0.10	4.00E-03
6886	-0.10	7.52E-04	9123	0.10	1.76E-04	11961	0.10	2.58E-03
6887	-0.10	2.91E-05	9135	-0.10	1.91E-04	11974	-0.10	5.33E-04
6898	-0.10	2.21E-05	9152	-0.10	4.65E-03	12000	-0.10	1.68E-04
6900	0.10	1.17E-03	9167	0.10	1.05E-07	12058	-0.10	3.49E-03
6908	0.10	8.54E-03	9168	0.10	1.20E-07	12059	-0.10	5.83E-04
6925	0.10	4.78E-03	9174	0.10	1.30E-03	12061	0.00	6.43E-03
6944	0.10	1.23E-04	9195	0.10	2.72E-03	12063	0.10	1.85E-03
6963	0.10	1.25E-03	9230	0.10	9.80E-04	12064	0.10	2.85E-03
6964	0.10	9.79E-04	9235	0.10	1.64E-03	12067	-0.10	5.97E-03
6965	0.00	7.67E-03	9248	0.10	4.17E-05	12117	0.10	4.67E-05

6976	0.00	9.81E-03	9260	-0.10	9.40E-05	12118	-0.10	7.67E-03
6981	0.10	1.34E-03	9267	-0.10	5.40E-04	12159	0.10	4.02E-03
6991	-0.10	1.71E-07	9275	-0.10	5.33E-04	12170	-0.10	9.53E-05
6998	-0.10	1.28E-08	9278	0.10	8.76E-04	12186	-0.10	9.70E-04
6999	0.10	3.49E-03	9288	0.00	5.82E-03	12187	0.10	4.83E-04
7004	-0.10	6.58E-04	9290	0.10	2.80E-03	12208	0.00	9.78E-03
7019	-0.20	1.27E-05	9291	-0.10	5.69E-03	12224	-0.10	4.33E-03
7040	-0.10	5.03E-04	9293	0.10	1.75E-03	12237	-0.10	3.77E-04
7047	-0.10	5.82E-06	9294	0.10	1.11E-03	12240	0.10	1.59E-03
7052	-0.10	2.55E-03	9300	-0.10	1.24E-05	12249	0.10	7.64E-04
7058	-0.10	2.06E-03	9301	0.10	7.55E-03	12250	-0.10	4.11E-03
7069	-0.10	5.44E-04	9306	0.10	8.26E-03	12257	0.10	1.17E-03
7072	0.00	7.17E-03	9321	0.00	8.15E-03	12280	0.10	9.92E-04
7073	0.00	7.17E-03	9341	0.00	5.91E-03	12281	-0.10	4.24E-03
7079	0.10	1.97E-05	9347	-0.10	3.49E-04	12304	-0.10	1.71E-03
7085	-0.10	2.84E-09	9352	0.10	1.29E-03	12305	0.10	1.10E-03
7092	0.10	5.79E-04	9353	0.10	1.86E-03	12325	-0.10	3.87E-04
7093	0.10	7.70E-04	9356	-0.10	2.22E-03	12362	-0.10	6.46E-03
7095	0.10	8.60E-03	9357	-0.10	4.59E-03	12393	0.10	1.98E-03
7127	-0.10	6.86E-03	9364	0.10	2.49E-04	12394	0.10	1.17E-03
7129	0.10	4.62E-05	9367	0.10	9.76E-03	12423	0.00	7.44E-03
7130	-0.10	6.56E-03	9404	0.00	6.17E-03	12457	0.10	2.05E-03
7143	0.10	9.39E-05	9410	-0.10	3.08E-03	12458	0.10	7.49E-05
7146	-0.10	1.15E-06	9425	-0.10	3.55E-05	12460	0.10	4.51E-06
7147	-0.10	7.92E-07	9434	-0.10	8.27E-03	12466	-0.10	2.19E-05
7160	0.10	1.88E-03	9450	0.10	6.39E-04	12473	-0.10	1.15E-03
7185	-0.10	1.10E-03	9459	-0.10	2.74E-03	12491	0.10	7.88E-05
7186	-0.10	7.20E-04	9466	-0.10	1.99E-03	12516	0.20	3.99E-06
7188	0.00	6.37E-03	9477	-0.10	1.95E-03	12529	0.10	1.64E-05
7195	-0.10	1.51E-04	9483	-0.10	7.89E-04	12534	0.10	7.79E-04
7213	0.00	5.35E-03	9485	-0.10	1.77E-06	12535	-0.10	4.41E-03
7233	0.00	6.47E-03	9497	0.10	6.24E-04	12539	0.10	3.66E-03
7261	-0.10	4.12E-05	9502	0.10	2.44E-04	12542	-0.10	1.45E-03
7263	0.10	1.19E-07	9517	-0.10	8.95E-04	12547	-0.10	6.63E-04
7270	0.00	6.62E-03	9533	-0.10	2.87E-03	12549	0.10	1.41E-04
7272	-0.10	2.73E-06	9534	-0.10	3.36E-03	12561	0.10	4.27E-03
7291	-0.10	8.83E-04	9554	0.10	1.85E-03	12565	0.10	2.85E-05
7307	-0.10	4.61E-06	9557	-0.10	3.14E-04	12581	0.10	1.04E-03

7308	-0.10	4.10E-06	9558	-0.10	2.23E-04	12588	0.10	4.05E-08
7310	0.10	4.58E-03	9584	0.10	2.84E-03	12589	0.10	3.06E-05
7315	-0.10	2.24E-03	9615	0.00	9.80E-03	12596	0.10	2.61E-04
7323	-0.10	1.60E-03	9624	-0.10	1.39E-04	12599	0.00	9.02E-03
7324	-0.10	4.82E-04	9633	-0.10	1.49E-03	12606	-0.10	6.02E-04
7326	0.10	1.94E-04	9638	0.10	6.29E-05	12675	-0.10	9.85E-06
7348	0.10	1.16E-03	9640	0.00	9.83E-03	12693	-0.10	6.32E-04
7349	0.10	2.97E-03	9646	-0.10	1.00E-04	12701	0.10	9.82E-04
7351	-0.10	2.39E-03	9658	-0.10	3.69E-03	12705	0.10	2.01E-03
7352	0.00	3.57E-03	9670	0.10	8.50E-03	12714	0.00	7.41E-03
7362	-0.10	4.73E-03	9692	0.10	1.19E-03	12715	-0.10	1.15E-03
7366	-0.10	1.80E-03	9694	0.10	2.72E-06	12728	0.10	4.76E-03
7410	0.10	5.68E-03	9697	0.00	7.89E-03	12740	0.10	1.27E-03
7415	-0.10	3.72E-04	9701	-0.10	8.36E-04	12743	0.10	2.36E-03
7424	0.10	1.67E-04	9715	0.00	5.00E-03	12746	0.00	9.64E-03
7429	0.10	2.94E-04	9718	-0.10	2.39E-03	12749	-0.10	4.10E-05
7446	-0.10	5.07E-04	9749	0.10	2.91E-03	12753	-0.10	1.96E-03
7447	-0.10	3.16E-03	9774	-0.10	9.70E-03	12757	0.10	2.50E-04
7468	0.00	6.18E-03	9780	-0.10	2.38E-03	12782	0.10	5.39E-03
7493	0.00	7.67E-03	9802	0.10	7.40E-03	12794	-0.10	1.60E-03
7498	0.10	1.49E-03	9808	0.10	2.91E-03	12795	0.10	4.75E-03
7508	-0.10	5.02E-03	9809	0.10	3.07E-05	12834	-0.10	5.03E-03
7515	-0.10	1.70E-03	9813	0.10	4.93E-03	12846	0.10	7.55E-04
7516	-0.10	5.58E-04	9817	0.00	5.31E-03	12852	-0.10	3.94E-03
7519	-0.10	1.43E-04	9818	0.00	3.47E-03	12867	-0.10	7.44E-06
7532	-0.10	3.02E-03	9825	0.10	5.46E-04	12876	-0.10	2.79E-03
7548	-0.10	2.85E-05	9837	-0.10	4.53E-03	12885	-0.10	1.23E-03
7549	-0.10	4.71E-06	9844	0.10	5.33E-05	12898	0.10	1.93E-03
7552	-0.10	3.09E-03	9859	-0.10	6.29E-05	12929	0.10	1.53E-03
7559	0.10	2.05E-05	9860	-0.10	4.01E-03	12940	0.10	2.00E-03
7577	0.10	3.74E-03	9867	-0.10	5.24E-06	12949	0.10	7.83E-04
7584	0.10	8.81E-03	9886	0.10	1.31E-04	12950	0.00	9.60E-03
7612	0.10	3.57E-03	9888	0.10	1.51E-06	12987	0.10	8.03E-04
7618	0.10	1.48E-03	9913	-0.10	1.00E-05	12989	0.00	6.74E-03
7619	0.10	3.58E-03	9915	0.10	8.60E-03	13001	-0.10	3.35E-04
7623	0.10	1.30E-04	9924	-0.10	2.12E-03	13003	0.10	8.40E-04
7642	0.00	7.41E-03	9937	-0.10	1.28E-05	13006	-0.10	3.08E-07
7643	0.00	6.82E-03	9945	-0.10	3.47E-03	13027	-0.10	1.50E-04

7653	-0.10	5.04E-04	9951	-0.10	2.07E-03	13051	0.10	1.16E-04
7654	-0.10	8.48E-04	9953	-0.10	2.90E-06	13077	-0.10	1.73E-03
7655	0.10	6.00E-03	9975	0.00	2.36E-03	13080	0.10	2.86E-04
7656	0.10	1.07E-03	9976	-0.10	3.47E-05	13088	0.00	4.38E-03
7657	0.10	9.50E-04	9986	0.10	2.59E-03	13089	-0.10	1.13E-03
7665	0.10	1.09E-03	9987	-0.10	2.10E-03	13098	0.10	6.75E-04
7666	-0.10	3.89E-06	9996	-0.10	5.08E-04	13103	0.10	4.67E-03
7684	-0.10	1.43E-07	10005	0.10	9.46E-03	13113	-0.10	1.10E-03
7688	-0.10	4.28E-03	10010	0.10	2.57E-03	13153	0.00	3.95E-03
7690	0.10	2.70E-03	10024	-0.10	3.02E-06	13179	-0.10	2.24E-03
7691	0.10	2.95E-03	10027	-0.10	2.59E-03	13195	-0.10	5.17E-03
7701	0.10	1.48E-03	10059	0.10	5.69E-05	13218	-0.10	4.88E-04
7714	0.10	3.76E-04	10062	-0.10	1.81E-06	13224	0.10	3.99E-04
7718	0.10	2.05E-03	10079	0.10	8.64E-05	13249	0.10	2.72E-05
7720	-0.10	1.15E-05	10094	0.10	9.27E-03	13253	0.10	1.31E-04
7721	-0.10	4.02E-05	10139	-0.10	3.39E-04	13254	0.00	5.65E-03
7725	0.00	5.35E-03	10151	-0.10	9.47E-03	13255	-0.10	6.38E-05
7732	-0.10	2.06E-03	10156	-0.10	2.41E-03	13258	-0.10	2.04E-03
7746	-0.10	5.74E-03	10158	0.10	1.38E-03	13281	-0.10	1.66E-03
7747	0.10	7.85E-03	10163	0.10	5.26E-03	13298	0.10	7.73E-04
7759	0.10	8.87E-04	10182	-0.10	9.19E-03	13305	-0.10	6.40E-05
7761	-0.10	2.51E-06	10186	0.10	5.33E-04	13324	0.00	9.18E-03
7767	0.10	2.30E-03	10193	-0.10	8.37E-04	13336	-0.10	3.43E-03
7770	0.10	7.81E-03	10204	0.10	1.57E-05	13349	0.10	4.28E-03
7789	0.10	6.70E-03	10208	-0.10	3.38E-09	13384	-0.10	2.12E-03
7790	0.00	5.63E-03	10230	-0.10	1.45E-04	13389	0.10	4.15E-04
7804	0.00	8.45E-03	10234	-0.10	7.65E-03	13392	0.10	6.43E-06
7810	0.00	9.85E-03	10245	-0.10	6.22E-03	13396	-0.10	4.70E-04
7816	0.00	8.87E-03	10247	-0.10	4.10E-04	13413	0.20	2.13E-05
7823	-0.10	1.46E-04	10261	0.10	9.66E-03	13442	0.10	7.64E-03
7857	-0.10	3.21E-04	10274	-0.10	1.19E-03	13466	-0.10	1.55E-04
7888	0.10	1.97E-03	10287	0.10	7.41E-05	13497	0.00	5.85E-03
7892	-0.10	2.66E-03	10299	0.10	1.48E-03	13501	-0.10	1.59E-05
7900	-0.10	1.39E-03	10302	0.10	3.79E-03	13516	0.00	9.27E-03
7903	-0.10	3.76E-05	10305	0.00	3.96E-03	13527	-0.10	6.49E-06
7908	-0.10	1.31E-03	10314	0.10	1.56E-04	13533	-0.10	1.33E-05
7930	-0.10	4.62E-06	10320	0.10	2.82E-03	13540	-0.10	9.98E-03
7940	-0.10	3.35E-04	10337	0.10	6.75E-03	13599	0.10	2.24E-05

7956	-0.10	4.88E-04	10346	0.10	1.03E-03	13604	0.10	9.06E-03
7965	0.00	7.31E-03	10362	-0.10	1.13E-03	13612	-0.10	4.28E-04
7978	0.10	1.69E-03	10368	-0.10	4.19E-03	13618	-0.10	4.14E-03
7987	0.10	8.01E-03	10381	-0.10	4.07E-03	13627	0.10	2.15E-03
8008	0.00	6.40E-03	10382	0.10	3.48E-03	13637	-0.10	2.39E-03
8009	-0.10	4.06E-04	10387	0.00	7.68E-03	13700	-0.10	1.02E-05
8013	0.10	9.28E-03	10391	0.10	7.41E-03	13716	-0.10	8.25E-05
8037	-0.10	6.79E-06	10392	0.10	4.33E-04	13720	0.10	7.37E-03
8039	-0.10	4.04E-03	10404	-0.10	2.30E-06	13740	-0.10	1.14E-03
8040	0.10	2.42E-04	10408	-0.10	8.56E-04	13747	0.10	1.93E-03
8052	0.00	4.05E-03	10409	0.10	1.29E-03	13755	-0.10	3.97E-04
8065	0.10	2.20E-03	10441	0.10	7.25E-06	13806	0.10	3.11E-03
8073	-0.10	1.97E-03	10444	-0.10	5.34E-03	13819	0.10	1.16E-03
8078	-0.10	3.37E-04	10456	-0.10	6.76E-05	13827	0.10	1.08E-03
8089	0.10	6.12E-03	10485	0.10	1.24E-03	13831	-0.10	3.06E-06
8097	0.10	1.10E-03	10487	0.10	9.60E-03	13838	-0.10	2.70E-04
8124	-0.10	7.99E-03	10490	-0.10	1.26E-05	13869	-0.10	8.26E-04
8125	-0.10	9.34E-03	10494	0.10	9.26E-04	13879	-0.10	1.39E-03
8127	0.10	1.68E-03	10507	0.00	9.28E-03	13885	0.10	9.86E-03
8137	-0.10	3.50E-03	10552	0.10	1.87E-03	13905	0.10	1.13E-03
8161	0.10	4.39E-03	10565	-0.10	2.94E-03	13917	-0.10	2.95E-04
8169	-0.10	2.61E-04	10567	0.10	7.00E-04	13929	-0.10	4.90E-04
8183	-0.10	8.23E-07	10569	-0.10	1.01E-05	13940	0.10	3.86E-03
8187	-0.10	7.49E-06	10577	-0.10	8.37E-03	13951	0.10	8.38E-03
8191	0.10	2.25E-05	10578	0.10	9.18E-06	13955	-0.10	7.31E-04
8196	-0.10	6.73E-03	10588	0.10	1.28E-04	13958	0.10	2.02E-03
8231	0.10	1.35E-06	10597	0.10	6.33E-09	13987	0.00	7.81E-03
8240	-0.10	4.67E-04	10600	0.10	1.06E-03	14014	0.00	7.70E-03
8246	-0.10	8.96E-04	10604	-0.10	4.08E-04	14016	0.10	3.77E-03
8257	0.10	1.16E-03	10608	-0.10	4.59E-04	14025	0.10	1.42E-03
8267	-0.20	1.33E-05	10614	0.20	8.88E-05	14026	-0.10	4.84E-04
8270	0.10	6.03E-05	10616	0.00	7.56E-03	14030	0.10	2.90E-04
8276	0.10	3.10E-03	10649	0.00	4.39E-03	14031	-0.10	9.45E-05
8295	0.10	6.47E-04	10653	0.10	2.92E-04	14052	-0.10	2.16E-04
8318	0.00	4.68E-03	10684	0.10	7.24E-03	14066	-0.10	1.32E-03
8330	0.00	4.23E-03	10686	-0.10	1.15E-03	14080	0.00	7.82E-03
8336	-0.10	3.73E-04	10696	0.10	9.23E-03	14094	0.10	6.83E-03
8337	0.10	2.00E-03	10710	-0.10	6.95E-05	14164	-0.10	1.09E-05

8358	-0.10	7.03E-03	10724	-0.10	3.42E-03	14176	-0.10	7.46E-04
8359	-0.10	2.15E-06	10730	0.10	1.98E-03	14191	-0.10	1.51E-03
8377	0.10	7.12E-08	10748	0.10	5.85E-07	14195	-0.10	6.79E-03
8384	-0.20	1.95E-06	10759	-0.10	8.07E-04	14227	0.10	4.28E-04
8388	-0.10	1.20E-03	10760	-0.10	3.39E-04	14269	-0.10	2.44E-04
8411	-0.10	2.80E-03	10770	-0.10	8.44E-06	14307	0.00	5.81E-03
8412	-0.10	1.95E-03	10778	0.10	6.88E-06	14316	0.10	2.67E-03
8434	-0.10	3.76E-03	10814	0.10	3.17E-03	14319	0.10	4.56E-03
8456	0.00	6.77E-03	10818	-0.10	1.18E-03	14329	0.10	6.09E-03
8460	-0.10	7.51E-06	10866	0.10	9.67E-03	14330	-0.10	2.83E-05
8465	-0.10	2.57E-08	10872	-0.10	8.03E-03	14334	0.10	2.16E-04
8466	0.10	2.06E-03	10888	-0.10	3.22E-03	14355	0.10	8.05E-04
8473	0.10	7.39E-04	10892	-0.10	4.85E-04	14381	-0.10	1.97E-03
8485	0.10	7.82E-04	10895	-0.10	5.34E-03	14407	-0.10	8.17E-03
8486	0.10	1.71E-03	10923	-0.10	2.08E-03	14426	-0.10	1.09E-05
8490	-0.10	3.54E-03	10924	0.10	2.35E-03	14478	0.10	8.37E-03
8502	-0.10	3.55E-03	10945	-0.10	2.97E-03	14508	-0.10	7.69E-03
8504	0.00	6.24E-03	10950	-0.10	2.95E-03	14515	0.10	2.77E-03
8508	0.00	6.50E-03	10965	0.10	3.55E-03	14524	-0.10	2.17E-03
8509	0.10	5.87E-03	10980	0.10	7.33E-06	14582	0.10	8.45E-05
8526	-0.10	9.32E-04	10985	-0.10	2.77E-03	14586	0.10	2.01E-03
8531	-0.10	1.64E-03	11013	0.10	9.99E-04	14603	0.10	3.46E-04
8532	-0.10	1.62E-03	11027	-0.10	8.90E-04	14612	-0.10	4.62E-04
8537	-0.10	1.10E-04	11053	-0.10	8.05E-04	14615	-0.10	4.90E-03
8538	0.00	9.56E-03	11074	0.10	1.09E-03	14625	0.10	2.60E-03
8546	0.00	3.91E-03	11075	0.10	7.75E-03	14626	-0.10	7.30E-04
8560	-0.10	4.62E-03	11078	-0.10	4.63E-05	14659	0.10	3.78E-04
8563	0.10	5.04E-03	11087	-0.10	7.25E-04	14661	-0.10	4.98E-03
8574	0.10	1.58E-03	11088	0.10	2.79E-03	14663	0.10	1.93E-03
8591	-0.10	2.66E-03	11093	-0.10	3.81E-04	14667	0.10	1.19E-03
8592	-0.10	9.98E-03	11107	-0.10	2.41E-03	14688	-0.10	3.12E-03
8593	-0.10	2.51E-05	11115	-0.10	2.51E-03	14697	-0.10	8.35E-04
8598	-0.10	1.39E-06	11116	-0.10	5.31E-03	14698	-0.10	1.75E-03
8602	0.10	1.96E-03	11143	-0.10	6.94E-04	14734	-0.10	1.84E-07
8606	0.10	4.13E-03	11145	-0.10	5.64E-04	14739	0.10	5.28E-04
8607	0.10	1.11E-04	11149	-0.10	3.69E-03	14756	0.10	1.04E-04
8614	-0.10	4.59E-04	11151	0.10	8.44E-03	14778	-0.10	1.92E-03
8616	0.10	9.03E-06	11153	-0.10	5.29E-04	14788	0.10	2.86E-03

8623	-0.10	5.53E-03	11180	0.10	3.59E-03	14815	-0.10	4.27E-03
8636	-0.10	2.72E-03	11181	-0.10	7.85E-03	14839	-0.10	1.21E-04
8641	-0.10	5.56E-04	11212	0.10	1.13E-04	14886	0.00	4.76E-03
8644	0.10	1.86E-05	11239	-0.10	3.12E-06	14938	0.10	8.41E-03
8646	0.10	6.72E-04	11244	0.00	9.81E-03	14953	-0.10	3.99E-04
8685	-0.10	3.28E-03	11272	0.10	5.75E-06	14975	0.10	1.24E-05
8693	-0.10	3.68E-03	11273	0.10	6.42E-03	15008	-0.10	1.13E-07
8694	0.10	2.85E-03	11312	0.10	1.84E-03	15053	0.10	6.72E-03
8703	-0.10	4.69E-03	11327	0.10	2.12E-03	15060	-0.10	6.31E-12
8722	-0.10	6.07E-05	11330	0.00	6.88E-03	15078	0.00	5.30E-03
8739	-0.10	1.23E-04	11343	0.10	1.03E-04	15088	-0.10	8.70E-03
8740	0.00	3.63E-03	11348	-0.10	1.07E-03	15115	-0.10	4.52E-03
8757	-0.10	5.52E-04	11350	-0.10	5.61E-04	15131	0.10	3.80E-05
8758	0.10	4.94E-04	11363	0.10	3.73E-03	15132	0.10	9.67E-04
8760	-0.10	3.47E-03	11366	0.20	2.27E-04	15138	0.00	9.94E-03
8770	0.10	1.60E-03	11375	0.10	9.14E-03	15147	0.10	2.93E-04
8773	0.00	6.41E-03	11378	-0.10	3.24E-03	15184	-0.10	2.85E-12
8777	0.10	1.26E-04	11380	0.20	2.51E-04	15192	-0.10	2.45E-06
8804	0.00	6.55E-03	11391	0.10	5.04E-04	15204	-0.10	7.59E-10
8809	-0.10	1.23E-05	11408	-0.10	1.10E-03	15230	0.10	7.76E-03
8810	-0.10	1.16E-03	11425	0.00	5.26E-03	15250	0.10	2.33E-06
8816	-0.10	6.45E-08	11433	0.10	8.36E-04	15291	0.10	8.93E-04
8817	-0.10	6.00E-08	11439	0.10	5.69E-03	15293	-0.10	1.78E-05
8818	0.10	2.82E-03	11454	-0.10	3.92E-09	15333	0.10	8.15E-05
8820	-0.10	2.54E-04	11471	-0.10	1.27E-03	15348	-0.10	1.40E-04
8821	-0.10	2.76E-03	11486	0.10	3.64E-05	124	-0.47	5.00E-02
8824	-0.10	4.94E-03	11490	0.10	5.87E-03	218	0.03	5.00E-02
8836	0.10	6.88E-03	11492	0.10	2.24E-03	384	0.02	5.00E-02

TABLE 31 - GENETIC MARKERS FOR STATURE

A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
13	0.20	1.05E-03	333	0.30	2.81E-11	644	0.20	4.73E-10	948	-0.20	7.69E-04	1289	-0.20	1.20E-03	1588	-0.10	9.64E-04
16	0.20	1.88E-07	335	-0.20	1.96E-05	661	0.10	6.94E-04	949	-0.20	1.94E-05	1291	0.20	1.37E-04	1597	-0.20	2.86E-04
22	-0.10	8.31E-03	336	-0.20	1.41E-04	663	-0.20	3.09E-05	950	0.10	3.27E-03	1293	-0.30	1.18E-03	1599	0.30	5.78E-09
26	0.20	1.86E-05	337	0.10	1.40E-03	664	-0.20	1.17E-08	957	0.20	4.15E-04	1304	-0.10	2.67E-03	1600	-0.30	1.85E-03
32	0.20	1.79E-06	343	-0.40	1.79E-03	668	-0.20	4.13E-08	958	0.20	4.44E-04	1305	0.10	4.86E-04	1601	-0.20	1.31E-06
36	-0.30	4.57E-05	359	0.10	7.65E-03	688	0.20	6.46E-05	959	-0.10	2.00E-03	1309	0.20	3.36E-03	1614	0.10	1.09E-03
39	-0.60	2.28E-07	373	0.20	4.80E-03	690	-0.20	3.16E-04	962	0.20	7.26E-06	1319	0.30	4.69E-10	1615	-0.40	1.05E-06
44	-0.20	1.72E-03	376	-0.20	1.77E-03	697	0.10	5.10E-03	963	-0.40	1.56E-08	1327	-0.10	4.96E-03	1616	0.10	7.24E-04
46	-0.30	2.50E-08	377	-0.30	9.28E-03	700	-0.40	1.22E-05	971	-0.20	4.89E-03	1329	-0.20	3.94E-05	1620	-0.20	2.53E-07
52	-0.10	6.90E-03	381	0.20	6.17E-05	703	0.20	8.51E-07	975	0.10	6.53E-04	1340	-0.20	5.37E-03	1621	0.10	1.80E-04
59	-0.30	1.50E-03	382	0.20	1.17E-04	707	0.10	2.78E-03	984	0.10	1.41E-03	1351	-0.20	2.14E-04	1628	0.10	7.79E-03
63	-0.20	7.10E-05	383	0.40	1.23E-05	711	-0.30	4.02E-05	1004	-0.30	4.96E-07	1355	0.20	2.19E-04	1629	0.10	8.81E-03
71	-0.30	2.05E-06	393	0.20	6.07E-04	718	-0.20	2.54E-06	1012	0.30	9.05E-09	1364	0.10	6.65E-04	1639	-0.20	5.28E-05
93	-0.10	3.28E-03	394	-0.30	1.84E-08	723	-0.40	3.84E-14	1016	-0.10	2.97E-03	1366	0.20	9.76E-07	1643	0.20	1.39E-05
99	0.20	6.42E-07	395	-0.10	3.20E-04	724	-0.20	2.83E-07	1027	0.20	2.54E-10	1370	-0.40	5.64E-05	1644	-0.30	5.32E-07
101	-0.10	8.36E-04	396	-0.20	2.44E-05	735	0.20	6.07E-05	1028	-0.30	8.46E-05	1375	-0.30	1.05E-10	1648	0.20	4.59E-05
106	0.10	1.36E-03	404	0.20	5.17E-05	736	0.10	1.01E-03	1029	-0.20	8.14E-04	1380	-0.40	4.03E-09	1652	0.10	3.12E-03
110	-0.30	2.77E-04	408	-0.20	3.45E-03	741	0.30	7.69E-04	1031	-0.20	3.45E-04	1385	-0.30	1.26E-08	1656	-0.20	4.89E-06
117	0.10	7.39E-04	412	-0.20	1.85E-04	742	0.30	6.65E-04	1037	-0.20	2.33E-06	1392	-0.20	6.21E-04	1659	0.40	9.00E-04
120	-0.20	4.45E-04	423	-0.20	1.67E-06	753	-0.30	8.24E-14	1038	0.20	9.73E-09	1399	-0.10	6.39E-03	1668	0.10	8.52E-03
122	-0.30	1.09E-03	429	0.20	8.63E-08	754	0.20	1.26E-04	1039	-0.10	2.38E-03	1400	-0.30	9.55E-05	1669	-0.10	8.24E-03
130	-0.10	4.83E-03	433	-0.10	2.46E-03	760	-0.40	2.18E-03	1042	-0.20	1.09E-04	1401	-0.20	1.89E-07	1671	-0.10	2.78E-03
131	0.30	6.95E-12	436	-0.10	2.23E-04	761	0.20	1.90E-03	1049	-0.20	1.93E-04	1409	0.10	3.35E-05	1677	0.20	1.39E-04
137	-0.10	7.11E-04	447	-0.20	9.21E-06	762	0.20	4.31E-05	1054	-0.20	8.76E-03	1411	0.40	1.98E-14	1681	0.20	2.38E-05
141	-0.10	5.83E-03	467	-0.20	9.51E-05	766	0.20	1.33E-04	1055	-0.20	6.89E-03	1417	-0.20	3.38E-05	1684	0.20	5.01E-03
150	-0.10	7.12E-03	476	0.30	4.34E-12	767	-0.20	8.55E-03	1075	-0.30	8.83E-05	1421	0.10	3.69E-03	1686	0.10	4.21E-04
152	0.30	2.72E-11	478	0.10	2.72E-04	769	-0.20	1.20E-06	1084	0.20	9.69E-04	1427	0.40	3.31E-05	1705	-0.30	7.31E-06
156	0.30	1.67E-11	479	-0.50	9.74E-05	772	-0.20	1.52E-04	1090	-0.40	8.65E-04	1428	-0.10	2.04E-03	1713	0.20	4.25E-04
163	0.20	1.65E-04	488	-0.30	1.12E-07	773	0.20	7.96E-10	1091	-0.40	8.58E-04	1431	0.10	8.79E-04	1717	-0.20	9.96E-04
167	-0.10	6.18E-03	497	-0.20	2.10E-03	776	0.30	2.23E-10	1097	-0.10	1.65E-04	1434	0.20	3.55E-05	1722	0.30	6.98E-13
177	0.10	8.86E-03	498	-0.20	1.26E-06	779	-0.30	3.89E-07	1098	-0.10	7.25E-03	1438	-0.10	2.28E-03	1744	0.20	3.95E-05
182	-0.10	2.08E-03	499	0.10	3.76E-03	780	-0.10	3.49E-03	1110	-0.20	1.39E-08	1448	-0.20	5.06E-07	1745	0.20	2.92E-05
191	-0.20	1.70E-04	502	0.10	5.97E-04	790	0.20	1.11E-05	1122	0.10	3.86E-03	1450	-0.20	1.67E-05	1751	0.30	1.54E-17
194	0.20	4.13E-09	505	0.10	1.14E-03	793	0.30	5.53E-13	1133	-0.30	2.49E-03	1451	0.20	1.43E-03	1752	0.10	5.19E-03
196	-0.10	9.10E-03	508	0.10	2.96E-03	801	-0.30	7.41E-05	1140	0.20	1.02E-06	1456	-0.10	8.84E-04	1757	-0.20	7.15E-04
199	0.10	6.24E-03	511	-0.30	5.63E-07	804	-0.10	1.80E-03	1142	-0.20	1.35E-04	1464	0.20	1.90E-07	1759	0.20	4.64E-03
202	-0.30	4.71E-04	516	0.20	7.50E-04	806	-0.20	1.02E-03	1146	0.20	6.20E-03	1467	0.20	1.64E-04	1761	-0.20	5.31E-04
209	0.10	2.64E-03	520	-0.20	3.39E-03	808	-0.20	1.61E-07	1151	0.10	4.26E-04	1480	0.20	6.44E-03	1764	-0.20	4.08E-06
215	-0.20	1.32E-03	522	-0.30	3.73E-05	811	0.20	1.75E-04	1152	0.10	7.27E-03	1484	-0.20	9.60E-03	1768	-0.30	5.40E-06
220	-0.10	5.62E-03	524	0.10	5.07E-04	812	0.10	1.06E-03	1154	-0.20	1.22E-04	1491	0.20	1.44E-06	1772	-0.20	6.06E-03
224	0.40	1.42E-04	530	-0.30	5.71E-04	827	0.20	3.22E-06	1156	0.10	6.75E-05	1498	-0.40	1.83E-22	1773	-0.20	9.19E-03
231	-0.20	5.89E-03	534	-0.20	4.20E-04	829	0.20	1.32E-03	1163	0.20	2.74E-05	1502	0.20	1.09E-09	1774	-0.40	1.74E-03
233	0.10	5.80E-03	537	0.10	1.08E-04	833	-0.30	5.39E-03	1172	-0.20	7.81E-05	1503	0.20	1.12E-04	1776	-0.10	6.43E-03
246	-0.20	1.49E-03	538	0.20	2.34E-07	837	-0.20	4.52E-04	1175	-0.10	3.22E-03	1504	-0.10	2.12E-03	1780	0.30	2.87E-10
249	-0.10	8.59E-04	539	-0.10	2.02E-03	840	-0.30	8.17E-05	1176	0.20	1.46E-05	1505	0.20	4.17E-04	1798	0.10	3.82E-03
259	0.40	3.22E-05	540	-0.10	3.56E-04	841	-0.10	8.33E-04	1177	-0.10	7.34E-03	1516	0.20	8.95E-03	1803	-0.20	9.38E-03
263	0.30	4.93E-07	541	0.10	5.98E-03	853	-0.30	1.56E-04	1182	-0.20	7.20E-04	1518	-0.20	1.79E-07	1805	-0.20	6.74E-04
272	-0.20	1.53E-07	545	-0.20	5.34E-03	854	-0.30	1.54E-11	1193	0.10	6.10E-03	1526	-0.20	7.73E-06	1806	0.30	7.69E-03
277	-0.30	1.64E-06	552	0.10	5.62E-04	864	0.20	9.50E-06	1194	0.20	1.69E-03	1527	-0.10	1.84E-03	1813	0.20	1.47E-04
282	0.20	2.97E-05	559	-0.10	1.07E-04	865	0.30	8.44E-07	1207	0.10	9.17E-04	1532	-0.30	1.05E-07	1815	-0.30	3.07E-04

300	0.40	1.19E-18	563	0.20	4.19E-04	867	-0.10	2.82E-03	1210	-0.10	5.55E-03	1533	0.20	2.13E-09	1823	0.10	6.50E-03
301	0.20	5.68E-04	565	0.30	1.96E-10	873	-0.20	3.07E-07	1213	0.10	1.01E-03	1541	0.20	3.58E-04	1829	-0.20	9.16E-03
303	0.20	7.04E-04	574	-0.20	7.59E-04	875	-0.20	1.07E-04	1217	0.40	1.51E-07	1545	0.30	9.15E-07	1833	-0.30	2.17E-07
308	-0.10	2.32E-03	578	0.10	7.69E-03	882	-0.20	3.16E-04	1219	-0.20	3.51E-03	1550	-0.10	1.16E-03	1846	-0.20	7.11E-04
314	0.20	6.04E-04	580	-0.20	3.50E-09	885	-0.40	1.72E-08	1223	-0.10	5.13E-03	1551	0.10	6.18E-03	1849	0.30	6.62E-08
315	0.20	1.98E-03	582	0.30	2.45E-13	896	0.20	1.48E-04	1224	-0.20	2.00E-07	1554	0.20	5.45E-03	1856	0.10	9.66E-03
318	-0.10	9.30E-03	583	-0.20	6.91E-06	905	-0.10	1.25E-03	1241	0.30	7.90E-06	1560	0.20	2.47E-06	1858	-0.20	1.47E-06
319	0.10	8.47E-04	588	-0.30	1.05E-04	912	0.30	9.76E-07	1243	0.20	2.49E-04	1562	-0.20	4.28E-03	1859	-0.10	3.13E-03
327	-0.10	1.45E-03	592	0.10	1.53E-03	916	0.10	4.96E-03	1264	0.20	8.38E-07	1566	0.10	7.17E-04	1862	-0.20	4.17E-06
328	-0.20	1.59E-04	614	-0.20	6.90E-06	919	0.30	2.04E-05	1267	0.20	2.29E-04	1571	-0.10	9.05E-04	1865	-0.20	7.17E-05
330	-0.30	6.14E-05	617	-0.10	3.83E-03	928	0.10	1.21E-03	1275	-0.10	3.72E-03	1573	0.10	1.02E-03	1867	-0.20	1.73E-03
1890	0.20	3.29E-04	620	0.10	6.44E-04	934	-0.10	5.34E-03	1276	-0.20	1.39E-04	1579	0.20	7.93E-05	1873	0.20	1.37E-04
1893	0.10	8.40E-03	623	0.20	7.77E-08	942	-0.30	3.01E-03	1278	-0.10	2.70E-03	1581	0.20	4.01E-05	1875	-0.20	1.85E-03
1896	0.20	2.93E-04	629	0.20	8.66E-04	945	0.20	8.41E-10	1279	0.20	3.35E-04	1585	-0.10	7.56E-04	1889	-0.30	6.16E-15
1900	0.20	4.23E-03	2239	-0.10	6.39E-04	2571	-0.30	1.93E-08	2888	-0.20	4.27E-10	3272	0.20	3.84E-04	3599	0.30	1.20E-11
1905	-0.20	7.52E-03	2245	-0.20	4.91E-04	2578	-0.20	7.53E-04	2890	0.10	2.42E-04	3277	0.10	8.03E-03	3601	-0.30	1.13E-09
1906	-0.20	2.46E-03	2246	0.30	2.89E-03	2582	-0.10	9.66E-03	2896	-0.20	1.09E-04	3278	0.20	5.35E-03	3615	0.20	1.04E-05
1912	0.20	1.02E-03	2251	-0.20	1.04E-05	2583	0.20	9.15E-06	2905	-0.20	7.27E-04	3289	-0.20	6.40E-03	3618	0.10	4.98E-03
1913	-0.30	4.11E-03	2261	-0.30	1.54E-10	2607	-0.20	4.02E-03	2907	-0.20	1.29E-05	3302	0.20	1.57E-03	3619	0.20	1.42E-04
1924	-0.20	2.86E-05	2267	0.10	1.83E-03	2610	0.10	6.79E-03	2909	0.20	9.37E-05	3303	0.20	1.44E-03	3621	-0.20	1.33E-04
1926	0.20	5.43E-06	2275	-0.20	3.58E-05	2612	-0.20	1.65E-07	2910	0.20	1.92E-04	3312	-0.30	1.42E-13	3625	0.10	6.14E-05
1928	-0.10	1.76E-03	2283	0.10	5.42E-03	2614	-0.20	7.32E-05	2914	0.10	3.63E-03	3313	-0.30	7.06E-13	3626	0.10	5.13E-03
1929	0.10	2.18E-04	2298	0.10	2.84E-04	2640	0.30	2.51E-05	2921	-0.10	1.43E-03	3317	0.10	4.28E-04	3631	-0.10	6.84E-04
1930	0.10	2.32E-04	2300	0.10	1.07E-04	2645	-0.20	1.51E-03	2933	-0.20	1.45E-04	3321	0.10	1.77E-03	3653	-0.10	5.00E-03
1933	-0.20	2.00E-06	2303	0.30	2.14E-15	2649	-0.30	4.37E-14	2939	0.20	1.08E-05	3322	-0.20	1.81E-03	3655	-0.10	3.99E-03
1939	0.10	5.38E-04	2306	-0.30	8.19E-04	2664	0.20	5.97E-05	2941	-0.20	6.98E-04	3328	0.10	2.12E-03	3658	0.20	2.48E-03
1941	0.10	4.39E-03	2311	0.20	8.35E-06	2665	0.20	6.51E-05	2954	-0.10	1.71E-05	3333	0.20	7.80E-04	3667	0.20	1.15E-03
1945	0.20	3.02E-03	2316	0.10	4.15E-03	2668	-0.10	5.38E-03	2955	-0.30	7.16E-04	3340	0.20	9.93E-05	3670	-0.10	6.79E-03
1971	0.20	1.70E-05	2324	-0.20	5.09E-04	2670	-0.30	3.34E-05	2959	-0.20	2.87E-04	3367	0.20	3.24E-03	3673	0.20	8.81E-03
1981	0.20	2.42E-05	2325	-0.10	7.49E-03	2677	-0.30	2.97E-07	2971	-0.10	4.19E-03	3369	-0.30	1.07E-06	3679	-0.20	2.38E-04
1983	0.10	2.28E-03	2331	0.10	4.28E-03	2688	-0.20	4.07E-08	2974	-0.30	1.41E-05	3372	-0.20	3.50E-08	3683	-0.20	2.00E-04
1984	-0.30	3.95E-03	2335	-0.20	1.83E-06	2693	0.20	5.44E-04	2995	0.30	5.17E-12	3390	-0.20	4.46E-04	3690	0.10	3.68E-03
1987	-0.40	3.57E-07	2336	0.20	3.76E-05	2696	0.20	3.38E-08	2996	0.10	8.22E-03	3391	0.10	4.40E-05	3702	-0.10	2.67E-04
1995	0.20	8.85E-03	2345	-0.20	4.86E-06	2705	-0.20	9.67E-06	3003	0.20	3.50E-03	3392	0.20	2.93E-04	3704	0.10	3.51E-03
1999	0.20	5.46E-05	2355	-0.10	8.60E-03	2707	-0.30	3.14E-11	3010	-0.20	7.28E-04	3394	0.20	4.58E-06	3706	-0.30	2.21E-08
2001	-0.30	2.41E-05	2360	-0.20	2.66E-05	2712	-0.30	6.28E-10	3033	-0.30	9.04E-04	3400	0.10	1.66E-03	3711	0.20	7.84E-06
2002	-0.40	6.94E-03	2365	-0.20	3.13E-03	2714	-0.30	9.32E-03	3034	0.20	2.27E-05	3405	-0.20	2.94E-03	3719	0.30	1.03E-05
2005	0.20	7.99E-03	2366	-0.20	1.15E-03	2721	-0.20	8.65E-04	3037	-0.10	6.09E-03	3406	-0.20	2.31E-06	3726	0.10	2.17E-03
2009	-0.30	8.48E-11	2373	-0.20	1.19E-03	2722	-0.20	2.78E-04	3039	-0.20	4.44E-05	3407	0.10	1.63E-03	3728	0.20	1.36E-03
2010	-0.10	6.60E-04	2388	-0.10	9.08E-03	2723	-0.40	2.45E-05	3044	-0.20	1.77E-04	3409	0.10	3.77E-03	3732	-0.20	2.39E-04
2013	0.20	2.97E-06	2389	-0.30	2.09E-10	2727	0.20	8.98E-05	3048	0.30	6.74E-12	3417	0.20	3.61E-05	3735	-0.40	9.63E-12
2015	-0.20	1.94E-03	2393	-0.20	4.21E-07	2730	-0.20	3.03E-03	3050	-0.30	8.98E-06	3423	0.20	3.56E-06	3740	-0.20	5.08E-04
2024	0.20	7.56E-04	2394	-0.20	8.89E-05	2731	-0.20	4.69E-03	3053	0.20	6.68E-04	3424	0.30	4.39E-05	3742	-0.20	2.23E-03
2037	-0.30	3.63E-07	2398	0.20	1.77E-08	2735	0.10	6.14E-03	3072	0.30	6.53E-07	3428	-0.20	6.43E-06	3743	0.20	4.30E-03
2038	0.20	7.87E-03	2405	0.20	1.32E-05	2736	-0.10	2.97E-04	3075	0.10	2.56E-03	3433	-0.30	8.33E-08	3745	0.10	9.03E-03
2044	-0.30	2.20E-12	2406	0.20	5.87E-07	2738	-0.10	2.78E-03	3076	0.20	1.02E-03	3435	-0.30	5.83E-03	3751	-0.30	3.47E-04
2046	0.10	3.09E-03	2408	0.30	1.00E-09	2739	-0.10	4.50E-03	3079	-0.10	1.96E-03	3438	-0.10	5.99E-06	3752	-0.10	3.27E-03
2048	0.20	5.22E-07	2409	-0.10	1.25E-03	2742	-0.20	5.01E-03	3082	-0.10	1.87E-03	3439	-0.30	3.54E-07	3753	-0.40	9.06E-19
2059	0.10	8.83E-03	2413	0.10	8.69E-03	2750	-0.40	3.22E-03	3089	-0.20	3.34E-05	3450	-0.30	7.05E-03	3759	-0.10	5.84E-03
2075	-0.20	1.89E-05	2421	-0.30	2.12E-09	2752	-0.40	3.76E-07	3094	-0.10	8.33E-03	3451	0.20	1.15E-03	3760	0.10	8.66E-04
2077	0.20	2.92E-06	2422	-0.20	4.36E-05	2754	0.20	2.63E-06	3104	-0.20	1.63E-04	3455	-0.20	2.73E-05	3763	0.20	7.01E-03
2088	0.20	4.07E-05	2432	0.10	4.45E-03	2756	-0.10	6.32E-04	3112	0.20	4.53E-09	3458	0.20	1.21E-07	3765	-0.10	1.19E-03
2091	0.20	5.07E-03	2446	0.20	4.33E-05	2760	-0.10	2.42E-03	3124	-0.20	6.95E-06	3467	0.20	1.01E-04	3770	0.20	7.43E-05

2093	-0.10	1.12E-03	2453	-0.20	6.00E-07	2761	-0.10	3.37E-03	3140	-0.20	4.81E-04	3470	0.20	1.07E-03	3773	-0.20	4.19E-03
2102	-0.10	1.79E-03	2459	-0.30	2.74E-03	2773	-0.30	2.67E-05	3142	0.20	4.08E-06	3482	-0.20	6.26E-05	3776	-0.20	6.26E-06
2107	0.30	1.15E-11	2465	-0.20	1.03E-04	2781	0.20	7.22E-04	3144	-0.10	8.84E-04	3485	-0.20	3.27E-06	3778	0.30	6.23E-16
2114	-0.30	5.13E-05	2466	-0.30	2.13E-16	2782	0.10	7.44E-05	3145	-0.10	9.24E-04	3487	-0.20	1.62E-04	3779	0.20	5.79E-06
2117	-0.20	2.32E-03	2467	0.10	1.53E-03	2786	0.20	3.45E-06	3153	-0.30	1.74E-09	3490	0.10	5.04E-03	3788	-0.20	9.16E-05
2121	0.20	4.21E-03	2470	-0.30	3.06E-07	2790	0.10	1.10E-03	3163	-0.30	4.72E-03	3492	-0.10	7.11E-03	3796	-0.30	4.77E-06
2128	-0.10	6.52E-03	2471	0.20	5.70E-05	2792	-0.10	1.47E-03	3166	-0.10	1.21E-03	3497	-0.10	6.08E-03	3797	-0.30	4.29E-06
2131	-0.60	3.30E-11	2472	-0.20	2.95E-05	2793	-0.10	1.78E-03	3168	0.30	6.20E-09	3500	-0.20	2.86E-04	3800	0.30	4.92E-04
2134	0.10	1.77E-03	2486	0.10	8.55E-03	2800	-0.20	2.06E-05	3171	-0.40	5.18E-05	3503	-0.20	3.08E-03	3801	0.10	3.84E-03
2136	-0.30	7.40E-08	2491	0.10	4.16E-03	2815	0.10	1.11E-03	3177	-0.20	4.70E-03	3510	-0.20	1.47E-07	3803	-0.20	3.06E-05
2138	0.10	2.58E-03	2499	0.40	1.35E-19	2821	-0.10	3.88E-03	3178	-0.20	1.72E-04	3514	-0.10	1.64E-03	3804	0.20	1.37E-05
2144	-0.10	3.22E-03	2501	-0.10	1.11E-06	2824	0.20	1.28E-08	3188	-0.10	4.82E-03	3530	-0.10	8.72E-03	3805	0.10	5.98E-03
2152	-0.20	6.25E-04	2513	0.10	3.31E-03	2829	-0.20	1.14E-04	3189	-0.30	4.32E-11	3548	-0.50	2.08E-06	3812	-0.20	2.29E-05
2185	-0.10	8.48E-03	2514	-0.10	1.27E-03	2830	-0.20	1.68E-04	3190	0.30	5.94E-08	3550	0.10	7.58E-03	3834	-0.20	1.91E-06
2195	-0.20	1.52E-05	2516	-0.20	2.25E-03	2844	-0.30	1.16E-04	3203	0.10	3.99E-03	3557	-0.30	1.02E-03	3839	0.10	2.56E-04
2201	0.20	3.92E-09	2518	0.20	4.81E-05	2845	-0.30	8.49E-04	3218	-0.20	1.04E-04	3558	-0.30	6.97E-16	3841	-0.30	2.94E-04
2210	-0.20	5.54E-04	2534	-0.20	2.05E-04	2848	-0.30	5.54E-15	3220	0.20	5.01E-05	3559	-0.50	4.00E-05	3842	-0.10	1.31E-03
2211	0.20	3.33E-06	2540	0.20	5.24E-05	2859	0.20	4.79E-08	3222	0.10	8.35E-04	3561	0.20	5.16E-05	3859	-0.10	2.38E-03
2217	-0.20	2.07E-05	2544	-0.20	1.79E-05	2860	0.30	1.07E-04	3230	0.30	2.96E-04	3562	-0.30	9.93E-03	3864	-0.10	2.57E-04
2218	0.20	1.75E-07	2545	-0.20	1.06E-03	2864	-0.20	4.19E-03	3239	-0.20	6.38E-04	3565	-0.10	8.63E-03	3865	-0.10	1.97E-03
2224	0.20	3.20E-09	2547	-0.10	2.91E-03	2866	-0.20	2.18E-04	3240	-0.20	6.23E-04	3580	-0.30	1.93E-04	3871	0.30	1.11E-08
2232	-0.20	5.95E-04	2549	-0.40	1.08E-03	2873	0.20	9.21E-04	3250	-0.20	3.93E-05	3582	-0.10	7.23E-04	3878	-0.10	3.29E-03
3886	0.20	1.37E-06	2551	-0.10	1.24E-03	2880	-0.30	6.34E-04	3258	0.10	3.71E-03	3588	-0.20	1.26E-06	3879	-0.10	1.66E-03
3889	-0.30	1.44E-05	2555	-0.20	7.16E-04	2882	0.10	7.60E-04	3259	-0.20	5.54E-05	3589	0.10	5.74E-03	3884	-0.20	2.89E-08
3890	-0.20	4.96E-03	2564	0.10	1.59E-03	2885	-0.30	3.97E-04	3270	0.20	1.86E-04	3594	0.20	1.47E-06	3885	0.20	1.81E-08
3900	-0.20	3.20E-05	4197	-0.20	2.40E-07	4469	-0.30	2.09E-04	4763	-0.20	1.50E-07	5118	0.10	1.14E-03	5470	-0.20	1.00E-04
3902	-0.10	9.96E-03	4204	-0.20	4.82E-07	4471	-0.60	3.17E-06	4771	-0.30	2.46E-03	5128	-0.20	3.88E-03	5472	-0.20	5.42E-05
3904	-0.20	5.42E-07	4210	0.10	1.30E-03	4473	-0.30	6.91E-03	4775	0.10	6.73E-03	5134	-0.20	6.67E-07	5483	0.10	4.40E-03
3905	-0.20	2.50E-04	4211	0.20	9.91E-05	4474	0.20	7.74E-05	4778	-0.20	2.02E-03	5142	0.20	1.07E-03	5485	-0.30	4.09E-04
3909	-0.20	7.33E-04	4214	-0.20	3.39E-03	4480	-0.30	1.27E-06	4780	0.20	6.30E-05	5145	-0.20	5.62E-09	5486	-0.30	4.26E-04
3911	0.20	8.79E-03	4219	0.20	2.58E-03	4482	-0.20	2.06E-04	4782	-0.30	2.66E-06	5166	-0.10	5.77E-03	5489	-0.10	2.09E-03
3912	-0.20	7.67E-06	4230	-0.20	1.57E-03	4486	0.30	7.83E-05	4789	-0.20	8.89E-05	5179	-0.30	3.79E-03	5494	-0.10	5.67E-03
3913	-0.10	6.45E-03	4231	0.20	1.32E-04	4487	0.20	4.54E-07	4797	0.20	1.64E-05	5185	0.20	3.02E-04	5495	0.20	3.57E-03
3914	-0.10	1.42E-03	4234	-0.20	1.37E-03	4488	-0.10	7.64E-05	4807	0.10	4.57E-03	5186	0.20	3.07E-03	5511	-0.20	2.86E-06
3925	0.20	4.64E-03	4243	-0.20	2.69E-05	4492	0.30	1.24E-09	4808	-0.10	6.80E-03	5187	0.20	1.76E-03	5513	-0.20	6.43E-04
3926	0.10	3.80E-03	4244	-0.20	1.31E-06	4501	0.20	2.12E-07	4813	-0.20	2.57E-05	5201	0.10	3.25E-03	5521	-0.10	8.80E-03
3927	-0.20	3.67E-04	4248	-0.30	1.03E-03	4506	0.10	2.39E-03	4820	0.10	3.32E-03	5204	-0.20	5.34E-04	5522	-0.20	2.06E-05
3929	0.10	4.89E-03	4250	-0.30	7.47E-03	4522	-0.20	1.16E-03	4821	-0.20	3.13E-03	5209	0.20	4.40E-06	5524	-0.20	3.15E-04
3933	0.20	1.05E-04	4252	-0.20	7.59E-06	4523	0.10	5.10E-04	4822	0.10	3.02E-03	5218	-0.30	1.41E-03	5525	-0.20	6.48E-06
3938	0.20	8.95E-04	4255	-0.20	5.29E-04	4529	-0.40	3.29E-03	4827	0.20	2.12E-03	5219	0.40	1.14E-13	5526	-0.20	4.04E-04
3940	0.20	5.67E-05	4259	0.40	8.67E-17	4533	0.20	9.82E-06	4832	0.10	4.47E-04	5221	0.10	9.48E-03	5529	0.10	8.74E-03
3944	0.10	3.45E-03	4261	0.20	2.15E-05	4536	0.30	4.03E-11	4834	-0.40	5.11E-05	5226	0.20	5.69E-03	5540	-0.20	4.60E-06
3945	-0.40	4.87E-06	4269	0.10	5.58E-03	4541	-0.20	3.51E-04	4847	0.10	2.16E-03	5229	-0.30	2.60E-04	5541	-0.20	4.16E-03
3946	0.30	2.34E-11	4274	-0.20	5.08E-09	4549	0.20	1.12E-04	4848	-0.20	1.21E-04	5230	0.20	2.10E-07	5546	-0.20	6.29E-05
3951	0.10	5.52E-04	4279	-0.20	7.29E-05	4550	-0.20	3.06E-03	4852	0.20	3.04E-06	5235	-0.20	8.58E-06	5548	0.20	1.85E-06
3956	-0.20	8.43E-05	4285	0.20	1.67E-04	4555	0.20	9.22E-03	4853	0.20	1.43E-09	5237	0.10	5.51E-03	5570	0.20	5.54E-07
3957	-0.20	3.20E-03	4294	0.20	1.70E-06	4560	-0.10	3.68E-04	4860	0.10	8.78E-03	5255	0.10	2.71E-03	5574	-0.10	8.90E-04
3965	-0.20	1.01E-06	4297	0.10	7.34E-03	4561	0.10	4.55E-03	4864	-0.30	8.41E-10	5262	0.20	5.80E-06	5577	0.30	5.18E-05
3971	0.20	4.39E-04	4298	-0.10	5.77E-03	4567	-0.30	1.49E-05	4870	-0.10	8.59E-03	5283	0.10	3.93E-03	5578	0.20	4.89E-03
3974	0.10	3.97E-03	4299	-0.20	5.55E-07	4575	0.10	5.42E-03	4878	-0.20	1.45E-03	5284	0.30	2.14E-05	5579	-0.20	5.95E-05
3978	-0.20	1.15E-07	4301	-0.30	6.67E-05	4578	0.10	2.41E-04	4894	-0.20	8.86E-08	5285	-0.30	3.07E-08	5580	-0.20	3.80E-07
3979	-0.20	8.99E-03	4304	0.20	7.73E-03	4581	0.10	5.05E-04	4900	-0.10	7.61E-03	5295	-0.20	2.61E-03	5585	0.10	3.82E-03
3994	0.10	1.53E-03	4309	0.20	8.45E-06	4582	0.10	3.18E-03	4905	-0.20	1.10E-03	5307	0.10	7.49E-03	5589	-0.20	3.58E-04

3996	-0.20	2.97E-05	4315	-0.20	3.08E-07	4583	0.20	2.21E-06	4916	-0.20	2.61E-04	5315	-0.20	7.81E-06	5590	0.20	3.14E-10
4002	-0.20	2.09E-04	4326	-0.20	3.95E-03	4599	-0.20	7.26E-04	4934	0.20	6.35E-04	5317	0.20	9.96E-09	5596	-0.20	6.58E-05
4015	0.20	1.76E-05	4328	0.20	3.72E-03	4602	0.20	7.93E-08	4938	0.10	6.67E-03	5319	-0.30	2.27E-04	5597	-0.20	7.26E-05
4016	-0.10	1.14E-03	4329	-0.30	4.60E-03	4608	-0.20	9.94E-06	4942	-0.20	3.79E-06	5326	-0.20	2.70E-05	5602	-0.20	1.69E-06
4017	-0.10	3.70E-03	4334	0.10	1.82E-03	4614	0.20	4.64E-05	4943	-0.20	4.64E-06	5329	-0.40	1.45E-06	5608	-0.20	5.81E-05
4022	-0.20	1.25E-04	4335	0.20	8.48E-03	4615	-0.20	5.01E-03	4946	-0.20	5.94E-05	5331	-0.20	1.30E-05	5609	-0.20	8.29E-03
4025	0.10	4.62E-03	4341	0.20	1.31E-06	4616	-0.10	6.44E-03	4951	0.10	5.47E-04	5336	0.10	6.65E-04	5621	0.20	4.77E-04
4032	0.20	1.33E-09	4344	0.20	1.50E-03	4619	-0.30	1.68E-15	4957	-0.20	6.48E-10	5338	0.10	1.11E-03	5622	0.20	4.62E-04
4041	-0.30	6.07E-06	4348	-0.10	1.67E-03	4620	0.20	1.38E-04	4961	0.20	8.21E-04	5339	0.20	6.00E-04	5623	0.20	2.86E-04
4050	0.20	3.49E-04	4350	0.10	1.65E-04	4622	-0.20	4.61E-05	4964	-0.10	4.55E-03	5344	0.20	6.56E-07	5625	-0.20	4.87E-03
4051	-0.10	9.60E-05	4352	0.20	2.08E-08	4623	-0.10	1.39E-03	4965	-0.10	4.45E-03	5345	0.20	3.12E-05	5632	0.10	6.66E-04
4052	-0.20	7.02E-05	4359	-0.20	2.25E-03	4627	-0.20	2.15E-03	4974	0.20	6.71E-05	5347	0.30	1.50E-04	5639	-0.20	8.12E-10
4059	0.20	3.81E-06	4362	-0.20	1.63E-05	4629	0.10	3.43E-03	4977	-0.20	6.02E-04	5348	0.20	1.81E-04	5646	-0.10	6.81E-03
4070	-0.10	2.64E-03	4377	0.10	1.38E-03	4634	-0.30	2.70E-06	4991	-0.20	3.53E-05	5353	0.20	1.37E-07	5666	-0.30	4.52E-04
4075	-0.30	1.44E-15	4378	-0.10	2.70E-03	4644	0.10	3.59E-03	4996	-0.30	5.86E-05	5356	-0.20	4.32E-05	5667	-0.20	1.59E-04
4076	-0.20	2.09E-03	4379	-0.40	5.72E-05	4647	0.20	2.17E-05	5003	-0.40	8.13E-07	5372	-0.30	7.83E-04	5668	-0.10	3.22E-03
4096	0.10	3.21E-03	4385	0.10	2.34E-03	4648	-0.20	9.76E-07	5010	-0.20	8.29E-04	5373	-0.30	4.45E-08	5674	-0.40	3.75E-13
4098	-0.20	6.26E-06	4390	0.10	1.55E-03	4651	0.30	4.64E-12	5037	-0.20	4.66E-05	5374	-0.30	6.20E-08	5682	0.10	3.70E-04
4110	-0.10	5.77E-03	4391	0.10	1.57E-03	4654	-0.30	1.23E-05	5047	0.30	4.43E-04	5375	0.20	1.68E-06	5688	-0.20	1.73E-03
4111	-0.20	5.20E-03	4395	0.10	3.43E-03	4669	-0.20	1.47E-06	5048	0.20	2.57E-07	5381	0.10	9.03E-04	5693	-0.10	3.23E-04
4117	0.10	8.67E-03	4399	0.20	3.53E-05	4676	-0.20	3.02E-05	5051	-0.10	8.08E-03	5383	0.20	2.67E-03	5703	0.30	1.72E-10
4121	-0.20	9.15E-06	4401	-0.20	1.79E-04	4678	0.10	2.95E-03	5057	-0.30	1.32E-05	5390	0.10	8.44E-03	5705	0.10	2.07E-03
4130	0.20	2.06E-07	4410	-0.40	1.01E-13	4689	-0.10	4.28E-03	5063	-0.30	5.98E-06	5391	-0.30	2.86E-12	5723	-0.20	4.03E-03
4134	-0.20	2.41E-06	4415	-0.10	3.92E-03	4691	-0.20	4.61E-05	5066	-0.20	6.25E-05	5395	0.20	1.46E-09	5739	0.10	3.98E-03
4140	-0.10	3.01E-03	4419	-0.20	4.39E-03	4696	-0.10	7.67E-03	5069	0.30	1.26E-09	5397	0.20	1.67E-05	5744	-0.20	7.58E-10
4141	-0.30	1.30E-06	4422	0.10	1.29E-03	4703	0.10	2.30E-03	5070	0.10	6.13E-03	5398	-0.20	3.02E-03	5749	0.10	5.77E-03
4149	-0.20	4.07E-09	4430	0.20	7.45E-06	4708	-0.20	2.77E-04	5071	0.20	4.07E-07	5414	-0.20	4.50E-06	5752	0.20	1.14E-03
4154	0.20	5.12E-03	4446	-0.20	1.18E-05	4713	-0.30	6.63E-03	5078	-0.10	5.21E-04	5418	0.10	4.25E-05	5754	0.20	4.30E-06
4156	0.20	2.15E-06	4451	-0.20	4.87E-05	4716	0.10	1.89E-03	5083	0.30	2.16E-11	5423	0.20	7.83E-03	5764	0.20	3.10E-03
4158	0.20	7.82E-06	4452	-0.20	1.49E-04	4728	0.20	2.98E-05	5086	0.20	5.75E-06	5426	-0.20	5.40E-04	5770	-0.10	8.86E-03
4162	-0.20	1.19E-03	4454	0.10	1.25E-03	4732	0.10	1.52E-03	5088	0.10	6.66E-03	5427	-0.20	5.95E-04	5775	0.10	8.00E-04
4170	0.20	1.53E-07	4459	-0.20	4.73E-06	4734	0.20	2.07E-03	5093	-0.10	1.26E-03	5432	0.10	1.73E-04	5780	-0.10	7.99E-03
4179	0.10	5.39E-04	4460	-0.20	3.81E-06	4753	-0.10	1.52E-04	5094	0.20	1.21E-03	5440	-0.20	4.02E-03	5781	-0.10	2.92E-03
5806	-0.40	4.37E-08	4463	-0.40	1.80E-08	4758	-0.10	4.38E-03	5109	0.10	8.12E-03	5451	0.20	3.22E-03	5790	-0.20	5.28E-04
5808	0.20	5.45E-03	4467	0.20	7.98E-06	4760	-0.20	4.68E-03	5115	-0.20	5.15E-04	5456	-0.20	4.36E-03	5791	-0.10	1.76E-03
5809	-0.20	9.19E-03	4468	-0.10	4.18E-03	4761	-0.20	4.21E-03	5116	-0.20	2.37E-08	5466	-0.20	5.95E-09	5792	0.20	2.36E-03
5821	-0.20	1.29E-04	6095	0.40	1.63E-05	6429	0.20	1.15E-05	6688	-0.30	3.41E-04	6979	-0.10	1.74E-03	7260	-0.10	3.82E-03
5822	-0.20	1.63E-03	6096	0.20	4.94E-03	6433	-0.30	1.91E-09	6689	-0.30	1.41E-07	6991	-0.20	1.17E-03	7269	0.10	3.45E-03
5825	-0.20	2.75E-04	6103	-0.10	5.30E-03	6434	0.10	8.81E-03	6690	-0.20	1.40E-03	6996	0.10	5.51E-04	7270	-0.10	1.04E-03
5835	0.30	4.11E-07	6108	-0.10	9.69E-03	6437	0.20	1.48E-05	6697	0.20	5.04E-06	6997	-0.30	2.35E-05	7277	0.20	2.80E-04
5841	0.20	2.48E-04	6110	-0.20	9.35E-05	6439	0.10	9.65E-04	6703	-0.10	6.48E-03	7008	0.10	7.06E-03	7279	-0.20	2.23E-08
5845	-0.20	6.57E-03	6111	-0.10	3.03E-03	6440	0.10	7.00E-03	6707	-0.10	5.29E-03	7011	-0.20	4.31E-04	7280	-0.10	2.40E-03
5854	0.20	1.89E-03	6117	-0.20	1.68E-06	6444	-0.30	2.88E-04	6708	-0.20	1.91E-03	7012	-0.20	3.67E-04	7284	0.20	5.63E-03
5856	0.20	8.68E-07	6118	0.30	5.95E-15	6450	-0.10	9.61E-04	6709	0.20	8.27E-04	7020	-0.20	7.19E-04	7300	0.10	5.91E-03
5868	0.10	9.50E-04	6131	0.10	3.23E-04	6454	-0.20	1.15E-05	6713	-0.20	3.76E-04	7021	0.20	1.51E-03	7302	-0.20	1.21E-03
5874	0.10	2.52E-04	6134	-0.20	4.01E-04	6455	0.20	2.45E-07	6714	-0.10	7.89E-04	7022	-0.20	4.08E-03	7304	-0.20	2.47E-03
5884	-0.10	4.22E-03	6141	0.20	4.51E-09	6456	0.10	4.52E-03	6718	-0.20	9.54E-03	7025	0.20	3.19E-05	7305	-0.30	5.87E-12
5887	-0.20	1.57E-04	6143	-0.20	2.44E-04	6461	-0.20	1.00E-03	6729	0.10	3.67E-03	7028	0.20	3.44E-03	7309	0.30	3.89E-04
5890	0.10	6.37E-03	6147	-0.20	9.93E-03	6468	-0.30	6.51E-05	6732	-0.10	6.95E-03	7031	-0.20	1.41E-05	7311	-0.10	8.09E-03
5896	0.10	1.95E-04	6150	0.20	2.06E-03	6478	0.10	8.26E-04	6738	-0.10	2.79E-03	7035	-0.10	7.16E-03	7313	0.10	1.25E-03
5897	-0.10	4.84E-03	6161	-0.20	7.67E-05	6479	0.10	2.25E-04	6749	-0.30	5.87E-05	7036	-0.10	9.75E-03	7321	-0.20	5.50E-06
5898	-0.30	1.03E-05	6163	0.20	1.30E-04	6483	-0.10	4.97E-04	6755	0.20	7.34E-07	7044	-0.20	2.13E-05	7322	-0.10	8.76E-03
5902	-0.20	1.43E-06	6169	-0.30	5.52E-06	6487	0.20	3.38E-07	6757	-0.20	1.17E-04	7048	-0.30	1.34E-05	7329	-0.30	3.49E-04

5904	0.10	4.16E-03	6183	0.20	6.48E-03	6504	-0.20	9.31E-05	6763	0.10	7.61E-03	7049	0.10	5.39E-04	7331	0.20	9.53E-05
5909	0.20	1.52E-03	6204	-0.20	1.07E-03	6505	-0.20	2.18E-06	6764	0.20	1.72E-03	7053	-0.10	3.72E-05	7340	-0.20	1.34E-04
5916	0.10	3.65E-03	6206	0.20	2.61E-03	6517	0.20	4.13E-03	6780	-0.30	5.44E-09	7064	-0.10	3.41E-03	7343	-0.20	7.31E-03
5918	-0.20	4.59E-03	6219	0.20	4.62E-05	6520	0.10	9.77E-04	6783	-0.10	2.11E-03	7068	0.20	1.45E-05	7357	0.20	4.43E-05
5921	-0.30	4.33E-07	6232	0.20	3.74E-06	6521	-0.10	3.14E-03	6784	-0.10	1.24E-03	7071	-0.10	9.56E-03	7360	-0.20	7.27E-03
5922	-0.40	1.85E-07	6240	-0.20	6.67E-04	6523	-0.10	2.68E-03	6787	0.20	6.07E-05	7082	0.20	5.84E-05	7373	0.10	5.45E-03
5924	-0.10	6.31E-03	6241	0.10	4.00E-03	6528	0.20	5.48E-05	6790	-0.10	5.24E-04	7084	-0.20	9.56E-03	7374	0.10	1.41E-03
5925	0.30	3.85E-08	6245	0.10	1.47E-04	6531	0.20	2.65E-04	6795	0.10	3.96E-03	7086	-0.20	5.54E-05	7376	0.20	1.43E-04
5930	-0.30	5.66E-10	6249	0.20	1.69E-07	6537	-0.20	6.05E-07	6806	-0.20	5.48E-05	7087	0.20	1.08E-04	7380	-0.10	9.56E-04
5933	-0.30	5.63E-06	6253	-0.20	6.19E-08	6540	-0.10	6.33E-03	6808	-0.30	8.73E-08	7088	-0.20	6.03E-04	7388	-0.10	6.30E-04
5942	0.10	3.68E-03	6254	-0.20	1.58E-03	6556	-0.30	2.76E-05	6809	0.30	6.84E-06	7094	0.20	1.40E-04	7390	0.20	1.10E-03
5945	-0.10	6.66E-03	6258	-0.20	4.36E-03	6564	0.20	1.51E-03	6813	-0.30	6.36E-06	7095	0.20	3.18E-03	7396	0.10	4.69E-03
5966	0.10	1.98E-03	6261	0.20	2.11E-09	6565	0.10	6.04E-03	6816	-0.10	2.44E-03	7109	-0.10	4.88E-03	7398	0.20	5.83E-06
5968	-0.10	5.11E-03	6264	-0.20	1.06E-03	6571	-0.40	1.28E-06	6817	-0.30	1.00E-03	7113	0.10	9.89E-03	7401	0.10	4.09E-04
5969	-0.10	2.49E-03	6267	-0.40	5.85E-07	6572	-0.20	2.93E-05	6818	-0.30	6.91E-16	7114	0.10	8.86E-04	7411	-0.10	1.07E-03
5972	-0.10	2.83E-04	6284	0.20	2.38E-04	6580	-0.10	5.90E-03	6821	0.20	5.27E-05	7116	0.10	2.50E-03	7412	-0.20	2.93E-03
5973	0.20	3.32E-09	6289	-0.10	9.40E-03	6581	0.20	2.92E-03	6822	0.20	5.98E-05	7126	-0.40	4.10E-04	7414	0.10	2.08E-03
5975	0.10	1.27E-03	6293	0.20	4.95E-04	6582	0.10	1.66E-04	6823	0.20	5.04E-05	7128	0.20	4.17E-05	7416	0.10	2.10E-03
5978	-0.20	2.95E-04	6297	0.10	8.12E-04	6584	-0.30	9.96E-13	6824	0.10	1.14E-03	7131	-0.20	4.11E-04	7417	-0.20	1.57E-03
5979	0.20	1.53E-04	6305	0.20	7.80E-05	6591	0.20	1.69E-03	6839	0.20	1.08E-06	7135	0.20	2.57E-03	7426	0.10	2.95E-04
5982	-0.20	3.19E-05	6318	-0.20	3.48E-06	6600	0.20	5.36E-04	6842	-0.30	1.50E-04	7136	0.20	4.40E-03	7429	0.20	7.25E-05
5990	-0.20	1.07E-07	6325	0.20	1.47E-04	6601	-0.20	1.82E-04	6845	0.20	6.74E-03	7139	-0.20	1.92E-03	7431	0.30	7.46E-10
5999	-0.20	3.18E-05	6326	0.20	5.77E-03	6603	-0.20	5.13E-03	6849	-0.50	1.10E-05	7143	0.40	3.99E-08	7437	0.20	2.61E-05
6002	-0.10	2.11E-03	6337	-0.10	2.76E-03	6605	0.20	2.59E-05	6862	-0.40	5.08E-06	7149	0.20	5.25E-07	7441	-0.20	4.69E-04
6005	-0.20	9.25E-08	6339	-0.20	2.42E-06	6607	-0.10	1.01E-03	6868	-0.20	2.11E-07	7166	-0.20	7.83E-05	7448	-0.20	1.43E-09
6007	0.20	3.59E-05	6340	-0.20	4.84E-04	6609	0.20	5.50E-03	6870	-0.30	5.70E-04	7174	-0.20	2.67E-05	7449	-0.20	6.83E-08
6013	-0.20	9.90E-03	6341	-0.20	6.28E-06	6615	0.10	4.10E-03	6879	-0.20	3.26E-04	7181	-0.30	9.78E-03	7454	-0.20	2.64E-04
6016	-0.10	1.47E-03	6343	0.20	5.67E-06	6617	0.20	1.79E-03	6882	-0.20	4.68E-03	7182	0.20	2.84E-05	7460	0.20	4.17E-06
6024	0.10	4.92E-03	6351	-0.20	1.31E-09	6621	-0.20	3.15E-04	6885	-0.20	3.87E-03	7189	0.20	4.17E-05	7461	-0.20	5.86E-03
6030	-0.10	8.27E-03	6352	-0.30	5.17E-04	6626	-0.20	3.46E-04	6889	-0.10	4.59E-03	7190	0.10	4.92E-03	7463	0.10	6.68E-03
6033	-0.30	9.92E-07	6358	-0.20	4.50E-05	6629	0.10	3.64E-03	6890	-0.10	8.13E-04	7195	-0.30	2.87E-09	7467	0.10	7.37E-04
6035	0.10	3.02E-03	6359	-0.10	3.84E-03	6633	-0.10	3.47E-03	6895	0.10	4.62E-04	7198	-0.20	2.19E-03	7471	-0.20	3.38E-07
6036	-0.20	2.30E-04	6360	-0.30	1.35E-03	6635	-0.20	5.44E-03	6899	0.10	6.55E-03	7199	-0.20	1.12E-04	7476	-0.20	4.75E-03
6037	-0.20	7.56E-05	6365	-0.20	1.10E-04	6639	0.30	5.58E-18	6900	0.20	1.97E-03	7204	0.10	4.52E-04	7481	-0.20	2.75E-06
6039	0.10	3.35E-03	6369	0.30	6.58E-10	6640	-0.20	2.18E-03	6906	0.10	7.23E-04	7208	-0.20	2.58E-03	7489	-0.20	1.07E-03
6053	-0.10	2.46E-03	6373	0.20	4.49E-07	6643	0.20	4.51E-07	6907	0.10	8.08E-04	7209	-0.20	3.73E-03	7493	0.20	1.46E-04
6057	0.20	5.51E-05	6377	0.20	9.93E-04	6646	-0.10	8.28E-03	6919	-0.20	6.59E-06	7214	-0.20	7.90E-03	7496	-0.10	7.54E-04
6064	0.10	1.52E-03	6381	0.20	3.31E-05	6647	0.20	3.36E-06	6925	-0.40	4.23E-04	7219	-0.10	3.17E-03	7503	-0.20	4.00E-04
6065	-0.20	2.19E-03	6385	-0.20	1.95E-08	6651	-0.20	2.32E-03	6928	0.10	3.76E-03	7221	-0.10	9.64E-04	7504	-0.20	1.31E-03
6075	-0.10	1.31E-03	6396	-0.20	5.79E-06	6658	-0.20	1.00E-04	6936	-0.30	8.56E-11	7227	0.20	6.92E-06	7506	-0.20	1.46E-05
6077	0.10	2.22E-03	6402	-0.20	7.34E-03	6659	0.10	1.14E-03	6941	-0.20	8.26E-03	7228	0.20	8.45E-07	7507	-0.20	9.81E-06
6078	0.10	1.73E-03	6404	0.20	1.97E-03	6660	-0.30	1.65E-08	6945	0.20	2.10E-07	7231	0.10	4.93E-04	7508	-0.30	2.86E-04
6083	-0.20	3.95E-04	6408	0.10	5.01E-04	6669	0.10	2.92E-04	6953	0.40	1.40E-19	7234	-0.20	6.05E-03	7509	0.20	5.86E-09
6091	0.20	3.04E-03	6412	0.30	6.83E-09	6671	-0.10	3.60E-03	6963	0.20	5.52E-10	7238	-0.10	2.82E-03	7515	-0.20	2.14E-03
7520	-0.20	1.78E-08	6416	0.20	2.63E-04	6672	-0.10	4.74E-05	6964	0.20	1.01E-09	7239	-0.30	1.26E-05	7516	-0.20	3.24E-03
7523	-0.30	5.81E-08	6423	0.10	4.62E-03	6678	0.20	1.14E-03	6965	0.20	4.07E-06	7245	0.10	1.83E-03	7517	0.20	5.94E-05
7526	-0.10	1.20E-03	6428	-0.10	9.32E-03	6681	0.10	5.10E-03	6976	0.10	2.66E-03	7255	0.30	1.07E-05	7518	-0.20	1.13E-03
7527	0.20	4.88E-03	7796	-0.10	2.90E-03	8094	0.20	2.52E-08	8405	0.10	5.50E-03	8710	-0.20	2.27E-04	8977	0.20	5.99E-04
7531	0.20	8.31E-03	7810	-0.10	8.85E-04	8102	-0.20	1.14E-05	8417	0.20	1.28E-04	8711	-0.20	1.96E-03	8981	-0.10	1.48E-03
7536	-0.40	2.69E-04	7815	-0.20	2.31E-05	8107	0.20	8.43E-03	8421	-0.40	1.16E-13	8715	-0.10	8.10E-04	8985	-0.40	2.81E-04
7537	0.10	2.34E-05	7816	-0.30	3.47E-08	8111	-0.30	5.91E-16	8427	0.10	9.53E-03	8728	-0.30	6.25E-10	8987	-0.10	3.07E-03
7539	0.10	3.15E-04	7821	0.20	6.48E-03	8119	-0.30	8.30E-13	8434	-0.30	4.92E-03	8729	-0.20	1.03E-03	8992	0.20	3.08E-05
7540	0.20	1.31E-05	7822	-0.20	4.72E-06	8123	-0.10	1.67E-03	8439	-0.10	7.93E-03	8731	0.10	1.41E-03	8993	0.20	3.52E-05

7545	0.40	1.82E-16	7823	0.10	1.46E-04	8127	0.10	8.58E-04	8449	-0.20	6.45E-04	8733	-0.20	1.17E-04	8997	0.20	3.03E-04
7546	-0.20	2.86E-03	7824	-0.10	7.10E-03	8132	-0.10	7.71E-03	8451	-0.20	1.68E-05	8735	0.10	2.77E-03	9000	-0.20	5.44E-04
7552	0.20	5.38E-03	7826	-0.10	7.44E-03	8134	0.30	1.26E-11	8453	-0.20	2.72E-04	8740	0.20	2.97E-06	9002	0.20	9.79E-04
7556	-0.20	3.52E-05	7827	-0.20	3.75E-07	8135	-0.20	4.54E-03	8454	-0.20	2.95E-06	8744	-0.30	8.94E-11	9003	0.20	5.89E-06
7561	0.10	4.65E-04	7841	0.30	6.24E-07	8148	-0.20	1.16E-07	8455	0.20	7.25E-05	8745	-0.10	6.83E-03	9006	0.20	9.65E-05
7563	-0.20	1.05E-04	7843	0.20	1.04E-05	8150	0.20	6.69E-03	8463	-0.30	1.78E-03	8747	-0.10	1.56E-03	9007	-0.10	4.29E-03
7568	0.30	1.25E-06	7858	-0.20	7.06E-06	8152	0.20	1.78E-04	8466	0.10	6.00E-03	8749	0.20	3.89E-05	9010	-0.10	6.65E-03
7581	-0.10	3.34E-03	7860	-0.40	6.88E-13	8159	-0.10	6.30E-03	8467	0.20	2.90E-09	8754	0.30	1.19E-07	9013	-0.10	8.89E-03
7582	-0.10	8.57E-04	7861	-0.20	2.47E-03	8161	0.20	5.90E-05	8473	-0.10	2.50E-04	8756	0.10	3.18E-03	9027	-0.20	3.64E-07
7583	-0.30	3.98E-04	7871	0.20	8.44E-04	8172	0.20	7.09E-04	8476	-0.20	7.74E-05	8757	-0.30	2.81E-08	9034	0.10	7.51E-03
7585	-0.20	1.12E-08	7872	-0.20	4.47E-04	8188	0.10	5.57E-03	8477	-0.20	4.25E-05	8770	0.20	1.02E-08	9043	-0.30	7.28E-06
7595	0.10	3.75E-04	7873	0.30	4.65E-15	8189	-0.30	7.06E-10	8478	-0.20	6.21E-05	8773	-0.30	2.31E-15	9055	-0.20	3.18E-07
7603	-0.20	5.42E-05	7874	0.20	4.11E-07	8190	-0.20	1.04E-03	8480	0.20	2.04E-04	8774	0.10	4.41E-04	9056	-0.10	9.84E-04
7605	-0.20	5.94E-05	7876	-0.20	8.68E-07	8193	0.20	3.22E-04	8484	-0.20	1.87E-03	8782	0.20	3.90E-05	9059	-0.20	1.47E-04
7609	0.10	4.49E-03	7877	-0.20	3.52E-06	8197	0.20	6.13E-03	8488	0.10	1.47E-03	8785	-0.30	6.87E-03	9065	0.30	1.55E-07
7624	-0.20	8.66E-04	7879	-0.20	2.22E-05	8199	0.20	8.97E-04	8489	-0.20	7.71E-05	8786	0.10	2.72E-03	9072	0.20	2.40E-04
7635	-0.20	4.45E-03	7888	0.20	7.58E-06	8201	-0.20	6.25E-03	8498	-0.10	2.09E-03	8789	-0.20	7.49E-03	9083	-0.20	2.83E-03
7637	-0.20	4.30E-06	7894	0.20	2.05E-06	8208	0.10	7.44E-03	8501	0.30	8.45E-07	8792	-0.30	4.98E-04	9091	0.20	1.61E-04
7643	0.10	8.79E-03	7914	0.20	2.61E-06	8230	-0.20	4.18E-04	8503	-0.20	2.00E-04	8796	0.30	4.07E-04	9092	-0.10	2.70E-03
7645	-0.20	8.42E-03	7915	0.20	9.02E-05	8231	-0.10	7.23E-04	8506	-0.10	7.35E-03	8797	-0.20	2.21E-08	9093	0.10	8.21E-03
7649	-0.20	3.55E-04	7916	0.20	1.63E-04	8233	-0.30	2.69E-16	8515	0.20	2.62E-05	8805	-0.20	3.03E-06	9101	0.20	2.99E-08
7651	0.30	8.67E-03	7926	0.10	2.20E-03	8237	0.10	6.27E-03	8517	0.20	3.58E-04	8810	-0.20	1.09E-05	9103	0.20	9.00E-05
7652	-0.20	3.73E-04	7929	-0.30	1.46E-11	8238	0.10	3.51E-03	8521	0.20	2.27E-05	8813	0.20	4.39E-03	9107	0.10	7.23E-03
7655	0.20	3.24E-06	7939	0.20	3.05E-06	8239	0.10	9.95E-04	8532	-0.10	8.87E-04	8824	-0.20	1.76E-03	9111	0.10	7.60E-03
7658	-0.40	1.81E-03	7940	0.10	5.46E-04	8240	-0.30	4.37E-08	8540	0.20	2.00E-04	8825	-0.10	1.74E-03	9123	0.10	2.74E-03
7660	0.30	2.46E-07	7952	0.10	5.21E-04	8244	-0.10	9.68E-03	8541	0.20	8.69E-03	8834	0.20	4.48E-05	9125	-0.30	3.15E-05
7665	0.10	2.57E-03	7954	-0.20	4.24E-03	8246	-0.30	1.47E-03	8547	-0.20	9.12E-04	8838	-0.20	5.77E-04	9132	-0.20	3.52E-06
7668	-0.40	3.72E-07	7959	-0.10	5.33E-04	8247	-0.30	1.52E-03	8548	-0.40	2.60E-05	8839	-0.20	5.49E-03	9135	-0.10	4.09E-03
7676	-0.20	3.20E-03	7963	0.20	4.86E-05	8255	-0.10	4.20E-04	8551	-0.10	3.66E-03	8840	0.20	4.70E-06	9136	-0.30	1.89E-03
7684	-0.20	7.49E-04	7964	0.20	1.01E-05	8256	-0.20	5.61E-04	8559	0.20	2.43E-05	8844	-0.10	5.86E-03	9138	0.30	5.07E-13
7688	-0.20	1.32E-05	7965	0.20	5.34E-10	8261	0.10	3.16E-03	8561	0.10	6.99E-03	8846	-0.20	1.52E-03	9154	-0.30	5.24E-05
7689	0.10	5.55E-04	7982	0.20	7.60E-05	8262	-0.20	1.05E-07	8576	-0.10	6.25E-03	8848	-0.10	3.76E-03	9155	-0.20	1.93E-03
7693	-0.20	1.38E-03	7983	0.10	4.63E-03	8267	-0.20	2.42E-03	8577	0.30	3.66E-11	8849	-0.40	1.06E-06	9165	0.10	8.98E-03
7721	-0.30	3.27E-06	8012	-0.20	1.93E-03	8274	0.20	6.46E-05	8578	0.20	1.15E-03	8855	-0.10	2.59E-03	9173	0.20	8.06E-07
7722	-0.40	1.09E-07	8013	-0.30	2.54E-05	8277	-0.30	1.82E-04	8592	-0.20	5.89E-04	8875	-0.20	4.51E-05	9174	0.20	6.21E-04
7723	-0.30	1.48E-05	8016	-0.10	5.26E-03	8282	0.20	3.96E-03	8598	-0.20	3.56E-05	8893	0.20	5.03E-08	9178	-0.20	2.41E-03
7724	0.10	1.14E-03	8022	-0.20	7.96E-04	8289	-0.20	9.26E-08	8602	-0.30	6.60E-04	8897	0.20	5.27E-04	9179	-0.20	2.27E-03
7727	0.30	8.53E-11	8027	-0.10	7.94E-03	8293	0.20	8.86E-05	8610	-0.10	8.25E-03	8902	0.20	5.32E-04	9180	0.10	6.50E-03
7732	-0.10	6.13E-03	8028	-0.20	8.75E-04	8300	-0.20	1.36E-05	8621	0.30	9.06E-04	8903	0.20	4.72E-04	9187	-0.20	3.62E-11
7736	-0.30	4.08E-04	8029	-0.10	2.58E-03	8309	-0.20	3.31E-03	8623	0.10	3.07E-03	8913	0.10	6.32E-03	9188	0.20	1.34E-04
7738	0.20	2.78E-06	8030	-0.10	2.23E-03	8312	0.20	3.93E-07	8624	0.10	9.02E-04	8914	0.20	1.45E-05	9191	-0.10	2.46E-03
7745	0.20	8.02E-05	8031	0.20	8.01E-03	8321	-0.20	4.51E-04	8636	0.20	2.61E-04	8919	-0.10	4.97E-03	9192	-0.20	3.85E-04
7748	-0.30	5.38E-03	8032	-0.10	5.78E-04	8327	-0.40	3.08E-07	8645	0.20	2.79E-07	8921	-0.10	9.19E-03	9200	-0.20	3.41E-06
7750	0.20	8.38E-05	8034	0.10	1.63E-03	8339	0.20	4.88E-04	8650	-0.20	8.66E-05	8928	-0.10	2.87E-03	9201	0.10	3.15E-03
7751	0.20	4.54E-05	8035	0.10	2.03E-03	8340	-0.20	1.18E-03	8658	-0.20	2.47E-04	8933	0.10	4.74E-04	9208	-0.20	7.44E-03
7753	0.20	6.78E-05	8044	0.10	1.91E-03	8346	-0.30	1.15E-03	8662	-0.30	3.59E-03	8936	0.30	4.89E-04	9213	0.10	8.97E-03
7755	0.10	2.32E-04	8052	0.10	1.12E-03	8347	-0.10	1.36E-03	8668	-0.20	5.70E-04	8938	-0.20	1.36E-05	9217	0.30	1.41E-06
7757	-0.20	1.10E-03	8055	0.20	1.77E-06	8352	-0.20	7.59E-05	8676	-0.20	7.92E-08	8946	-0.30	1.08E-03	9219	-0.20	1.28E-06
7759	-0.20	1.87E-04	8060	-0.20	7.29E-07	8353	-0.20	4.49E-06	8688	-0.20	6.13E-07	8948	-0.10	1.03E-04	9227	-0.20	4.93E-05
7774	-0.20	2.37E-07	8067	0.10	6.14E-03	8358	-0.10	3.90E-03	8689	0.20	2.35E-05	8954	0.20	1.86E-07	9228	0.20	7.86E-06
7777	-0.20	2.06E-04	8071	0.10	6.66E-03	8360	0.10	4.23E-03	8692	-0.30	5.44E-05	8958	0.20	5.30E-08	9230	0.20	1.37E-09
7785	-0.20	6.56E-03	8072	0.10	5.76E-03	8369	-0.20	4.46E-04	8693	-0.20	2.50E-06	8960	-0.20	3.40E-04	9236	0.10	2.47E-04
7787	0.10	1.28E-03	8073	0.20	4.39E-04	8375	-0.30	1.81E-03	8694	0.10	4.01E-03	8963	-0.20	3.40E-03	9244	-0.10	1.70E-03

7788	0.10	1.25E-03	8075	-0.20	2.79E-06	8383	0.10	3.79E-03	8698	-0.20	6.73E-06	8965	-0.20	1.03E-04	9250	-0.20	3.74E-03
7789	0.10	4.44E-03	8077	-0.20	2.02E-04	8384	-0.20	6.09E-03	8700	0.10	7.54E-03	8966	0.20	2.43E-04	9258	0.20	1.60E-03
9278	-0.10	3.74E-03	8083	-0.20	7.32E-05	8392	0.10	4.19E-03	8704	-0.20	5.24E-03	8967	0.20	4.80E-03	9259	-0.30	8.95E-06
9281	-0.20	3.01E-06	8087	-0.20	2.04E-04	8397	0.10	8.26E-04	8707	-0.30	1.44E-05	8969	-0.20	2.16E-05	9260	-0.20	1.82E-04
9285	0.10	4.43E-03	8092	-0.20	7.16E-04	8402	-0.20	3.98E-03	8708	-0.40	8.26E-06	8971	0.10	7.22E-03	9261	0.10	1.47E-03
9289	-0.40	5.31E-07	9544	0.10	5.29E-03	9833	-0.20	6.81E-03	10162	-0.20	3.01E-04	10531	-0.30	4.59E-10	10897	0.20	9.22E-03
9300	0.20	1.26E-04	9554	0.20	7.88E-10	9849	-0.20	6.29E-04	10176	0.10	9.86E-03	10533	-0.20	3.63E-03	10902	0.20	4.34E-08
9301	0.30	4.72E-07	9561	-0.30	8.20E-15	9851	-0.40	5.48E-08	10177	0.20	4.73E-05	10539	0.20	8.66E-06	10906	-0.10	3.49E-03
9305	0.30	1.11E-16	9582	0.10	9.58E-03	9858	-0.30	1.35E-12	10188	-0.10	8.85E-03	10543	-0.30	9.19E-06	10948	-0.10	5.80E-03
9307	0.10	3.05E-03	9583	-0.30	2.07E-04	9859	-0.20	2.15E-07	10196	-0.30	9.82E-03	10545	0.10	6.22E-03	10951	0.20	3.07E-03
9311	-0.10	7.57E-03	9584	-0.20	7.12E-05	9874	-0.20	3.88E-04	10198	0.20	1.48E-05	10548	0.20	2.28E-05	10958	0.10	3.14E-03
9313	0.20	6.50E-03	9589	0.10	4.44E-03	9876	0.20	1.73E-07	10199	0.30	2.15E-10	10550	-0.10	1.41E-03	10962	0.20	1.18E-03
9314	0.10	5.15E-03	9594	-0.30	2.46E-13	9889	0.10	5.14E-03	10200	0.10	9.37E-04	10554	-0.20	5.52E-04	10980	0.10	1.90E-03
9315	-0.20	5.59E-05	9595	-0.20	2.25E-04	9891	0.10	1.37E-03	10203	-0.20	1.69E-05	10555	0.20	1.35E-03	10987	-0.30	1.53E-06
9316	0.20	1.49E-03	9609	0.20	9.22E-07	9895	-0.30	1.34E-07	10245	0.20	1.46E-07	10563	-0.30	2.87E-05	10992	-0.10	1.60E-03
9324	-0.30	5.78E-03	9614	-0.30	4.93E-08	9897	0.20	1.37E-05	10248	0.10	6.38E-03	10569	0.10	2.43E-04	10994	0.10	8.09E-04
9327	-0.30	4.90E-06	9617	-0.20	9.07E-04	9900	-0.20	4.89E-03	10258	-0.20	3.37E-04	10570	-0.10	8.25E-04	10995	-0.20	2.43E-04
9334	0.20	6.94E-04	9618	0.30	8.62E-03	9902	-0.20	1.90E-03	10263	-0.20	2.50E-09	10576	-0.10	1.86E-04	11003	-0.40	3.02E-06
9342	-0.50	1.25E-15	9624	0.20	7.36E-06	9905	0.20	7.20E-03	10265	-0.30	1.78E-04	10584	-0.20	3.09E-04	11012	-0.10	4.74E-03
9347	-0.20	7.34E-07	9628	-0.20	2.55E-03	9908	0.20	5.01E-05	10269	-0.20	7.34E-04	10586	-0.20	1.03E-03	11014	-0.40	5.11E-06
9349	-0.20	3.50E-03	9629	0.10	4.62E-03	9915	-0.10	4.47E-03	10271	-0.10	3.25E-03	10588	0.10	2.08E-03	11029	0.20	2.10E-05
9355	0.20	6.63E-06	9633	-0.30	3.32E-03	9919	0.20	7.76E-07	10274	-0.20	1.70E-04	10590	-0.20	1.24E-06	11032	-0.20	3.89E-05
9360	-0.20	2.75E-03	9635	0.20	1.41E-05	9927	0.30	6.06E-10	10286	-0.20	1.06E-04	10596	-0.30	1.09E-04	11036	-0.20	4.14E-04
9361	0.10	2.17E-03	9639	-0.20	3.46E-03	9928	0.30	7.15E-07	10288	0.30	5.72E-07	10597	-0.10	8.91E-04	11038	-0.20	4.05E-06
9364	-0.20	1.97E-06	9640	-0.20	2.30E-05	9936	0.10	6.78E-05	10290	0.10	4.59E-03	10600	-0.30	3.36E-07	11047	-0.10	1.50E-03
9365	-0.20	3.62E-03	9641	0.10	6.01E-03	9942	-0.30	5.92E-06	10291	-0.20	7.29E-08	10604	-0.20	2.88E-03	11048	-0.30	3.08E-05
9368	0.20	4.97E-10	9646	-0.20	1.87E-04	9946	0.10	7.24E-03	10296	0.10	2.21E-03	10605	-0.10	4.72E-03	11062	0.20	3.94E-08
9373	0.10	9.44E-04	9656	-0.20	1.80E-04	9951	-0.20	5.43E-04	10299	0.20	6.65E-04	10608	-0.30	1.71E-08	11066	0.10	7.32E-03
9376	0.20	1.16E-04	9661	-0.20	6.98E-03	9959	0.10	2.46E-03	10300	-0.20	1.67E-04	10618	-0.10	1.12E-03	11086	-0.30	5.27E-07
9378	0.20	5.54E-07	9665	-0.30	1.10E-05	9964	0.20	2.21E-03	10301	0.10	9.87E-04	10619	0.40	1.15E-04	11088	0.10	5.96E-04
9382	-0.20	4.85E-03	9671	0.20	3.23E-05	9975	-0.10	2.90E-04	10302	0.10	2.42E-03	10622	-0.30	2.07E-03	11092	0.20	8.75E-06
9388	-0.30	3.08E-06	9672	-0.10	2.47E-03	9977	-0.20	4.05E-04	10304	-0.20	2.18E-04	10625	0.20	1.53E-05	11093	0.30	5.43E-05
9399	-0.30	1.77E-03	9676	0.20	7.09E-06	9982	-0.10	9.12E-04	10324	-0.10	8.73E-04	10630	-0.20	3.30E-04	11096	0.30	5.31E-06
9401	0.20	3.57E-05	9677	0.20	3.10E-07	9995	0.30	4.39E-12	10328	0.10	7.77E-03	10633	-0.20	7.77E-04	11102	0.10	1.91E-03
9402	-0.10	6.77E-03	9680	0.10	2.46E-03	10001	0.20	4.38E-07	10329	-0.20	3.74E-05	10635	-0.30	9.82E-03	11120	0.10	1.51E-03
9404	-0.10	1.10E-03	9681	0.20	8.97E-04	10003	-0.20	4.39E-06	10341	-0.20	2.34E-04	10636	-0.30	1.25E-03	11122	0.20	2.01E-03
9408	0.10	6.30E-04	9684	0.10	1.91E-04	10005	-0.30	2.15E-10	10353	0.20	1.15E-03	10639	-0.20	8.57E-07	11136	-0.20	3.98E-04
9413	-0.20	1.78E-03	9685	-0.30	3.51E-06	10011	-0.10	7.13E-03	10363	0.30	9.60E-14	10644	0.20	6.42E-03	11149	0.10	1.20E-03
9426	0.30	2.73E-04	9686	-0.20	2.00E-03	10025	-0.10	1.58E-03	10367	0.10	3.05E-03	10649	0.10	2.98E-04	11151	0.20	7.12E-04
9432	0.20	7.84E-04	9691	-0.20	6.27E-06	10035	0.10	1.73E-03	10374	-0.30	4.27E-13	10655	-0.10	3.21E-04	11152	0.10	2.54E-04
9437	-0.40	2.14E-04	9693	-0.20	4.22E-05	10036	-0.10	1.16E-03	10375	-0.20	2.25E-03	10677	0.10	1.55E-03	11153	-0.20	1.23E-04
9445	-0.20	6.28E-04	9694	0.20	1.80E-06	10039	-0.10	6.33E-03	10383	-0.30	1.23E-04	10686	0.20	9.92E-03	11166	-0.20	3.61E-06
9448	-0.10	7.78E-04	9699	-0.20	3.33E-06	10041	0.20	8.09E-03	10387	-0.10	1.40E-04	10687	0.10	7.49E-03	11172	-0.20	6.88E-09
9449	0.20	4.81E-03	9701	-0.20	2.26E-03	10053	-0.30	3.37E-04	10392	-0.10	7.27E-04	10688	-0.20	8.00E-05	11173	0.20	2.54E-05
9455	0.20	1.40E-04	9707	-0.30	3.27E-09	10062	-0.20	1.10E-04	10395	0.20	4.63E-03	10697	-0.20	1.07E-06	11180	0.10	1.07E-03
9459	-0.10	8.37E-03	9714	0.10	4.09E-03	10066	-0.10	1.13E-04	10399	0.20	1.56E-04	10717	-0.20	1.59E-04	11181	-0.40	6.27E-07
9460	-0.10	4.29E-03	9715	-0.20	3.17E-05	10067	0.10	7.90E-05	10408	-0.10	8.87E-04	10718	-0.30	4.99E-08	11188	0.20	4.10E-06
9472	-0.20	6.95E-05	9723	0.40	2.14E-08	10069	-0.10	3.02E-03	10409	0.20	5.23E-06	10722	0.20	3.28E-04	11196	0.30	1.31E-13
9476	-0.10	2.81E-03	9724	-0.30	4.62E-03	10074	-0.20	3.68E-04	10423	0.10	1.66E-03	10737	-0.40	1.01E-05	11208	-0.20	6.54E-03
9478	0.20	1.10E-03	9730	-0.30	4.13E-06	10076	-0.20	9.25E-07	10438	0.20	2.41E-09	10741	0.20	3.51E-03	11212	-0.20	1.82E-07
9480	-0.20	1.79E-04	9733	0.20	5.79E-06	10077	-0.10	3.87E-03	10441	0.20	4.47E-04	10746	-0.20	8.92E-06	11223	-0.10	5.63E-04
9485	-0.20	3.87E-05	9744	-0.10	9.56E-04	10082	-0.10	6.02E-03	10444	-0.40	7.25E-18	10748	0.20	3.63E-05	11228	-0.40	3.19E-04
9505	-0.10	1.96E-04	9746	0.10	7.22E-03	10084	0.20	1.39E-03	10454	0.10	1.17E-03	10763	-0.20	4.16E-03	11231	-0.20	1.50E-06

9506	-0.20	1.19E-03	9750	0.20	3.07E-08	10087	0.10	6.35E-03	10456	-0.20	1.41E-04	10769	-0.20	4.47E-05	11236	-0.30	6.84E-06
9507	0.10	3.51E-04	9757	-0.40	1.49E-03	10092	-0.30	5.03E-16	10462	0.10	4.33E-03	10773	-0.10	1.60E-03	11238	0.10	3.54E-03
9508	0.20	6.94E-05	9763	0.10	3.12E-03	10096	0.10	7.08E-03	10464	-0.20	1.64E-03	10777	0.40	1.83E-04	11244	0.30	2.33E-11
9517	-0.20	1.42E-04	9767	-0.30	4.23E-03	10100	-0.20	9.35E-08	10467	-0.10	1.52E-05	10778	0.10	1.89E-03	11277	-0.20	8.54E-07
9519	0.30	3.82E-04	9770	0.20	4.50E-05	10101	-0.20	1.13E-03	10470	-0.10	1.18E-03	10801	-0.10	5.34E-03	11290	-0.10	8.33E-03
9521	-0.20	1.24E-06	9771	-0.20	1.01E-04	10102	0.30	1.37E-06	10474	-0.20	1.52E-03	10802	0.30	2.49E-09	11292	0.40	3.53E-15
9523	0.10	4.35E-04	9773	-0.20	1.04E-04	10107	-0.10	1.59E-03	10475	0.20	1.60E-03	10807	-0.10	3.28E-03	11305	0.20	1.53E-04
9524	0.10	7.58E-04	9774	-0.20	7.17E-04	10114	0.20	1.11E-03	10493	-0.20	6.89E-03	10811	-0.20	3.75E-03	11306	-0.20	2.28E-09
9529	0.10	4.37E-03	9788	0.20	8.27E-03	10119	-0.20	1.07E-06	10494	0.10	6.64E-04	10813	0.20	1.17E-06	11310	0.20	1.19E-05
9532	-0.30	5.80E-07	9789	0.20	2.48E-05	10132	0.20	4.06E-04	10495	-0.20	1.47E-04	10818	-0.20	7.44E-05	11311	-0.20	1.22E-08
9538	-0.30	2.35E-06	9794	0.10	7.16E-04	10134	-0.20	8.50E-03	10503	0.10	2.75E-03	10821	0.30	1.45E-09	11314	-0.10	4.45E-03
9541	-0.10	1.58E-03	9808	-0.10	2.51E-03	10139	-0.30	4.44E-11	10507	-0.10	6.29E-04	10838	0.30	3.28E-14	11322	-0.20	1.68E-03
9542	-0.30	1.03E-03	9809	0.10	4.69E-03	10140	0.30	6.86E-07	10513	-0.10	1.16E-03	10850	0.10	1.81E-03	11323	-0.20	5.43E-04
11350	0.20	6.16E-05	9810	0.10	9.68E-03	10148	-0.10	9.70E-03	10515	-0.30	1.87E-04	10865	0.20	2.30E-04	11331	-0.20	1.60E-04
11352	0.10	4.84E-03	9822	-0.10	5.03E-03	10157	-0.20	1.03E-07	10520	-0.20	9.88E-03	10875	-0.20	1.26E-03	11343	0.10	2.46E-03
11355	-0.30	7.23E-07	9828	-0.10	4.86E-03	10160	0.10	4.27E-03	10523	-0.30	5.33E-08	10888	-0.30	1.15E-11	11348	-0.20	9.85E-03
11359	-0.20	4.35E-05	11816	-0.20	8.75E-04	12322	0.10	2.16E-03	12773	0.14	8.12E-03	13276	0.13	8.45E-04	13816	0.19	9.42E-03
11360	0.20	1.39E-04	11818	-0.20	9.81E-04	12326	-0.13	2.15E-03	12785	0.16	8.40E-03	13279	-0.25	1.32E-03	13827	0.20	1.89E-06
11382	-0.20	1.28E-06	11825	0.10	8.01E-03	12330	0.14	1.50E-03	12799	0.29	1.89E-11	13305	-0.29	1.24E-06	13843	-0.18	2.87E-03
11384	-0.20	1.51E-05	11848	0.20	2.71E-03	12336	0.18	1.17E-06	12816	-0.41	6.46E-12	13308	-0.20	8.27E-03	13852	0.14	4.90E-04
11390	-0.20	3.96E-04	11856	0.10	1.63E-03	12341	-0.17	4.05E-03	12826	0.15	6.01E-03	13310	0.18	1.48E-05	13857	0.18	6.99E-06
11396	0.20	5.87E-07	11864	0.10	6.56E-03	12353	0.18	6.44E-06	12833	-0.15	2.07E-03	13312	-0.18	3.62E-05	13869	-0.34	1.03E-10
11400	0.20	6.06E-04	11873	-0.20	2.54E-06	12356	-0.20	7.07E-05	12837	0.16	3.20E-04	13315	-0.50	2.45E-04	13878	-0.15	1.79E-03
11403	0.10	4.55E-03	11894	-0.10	9.86E-03	12358	-0.16	1.12E-04	12840	-0.38	1.86E-06	13318	-0.17	8.24E-03	13903	0.14	4.78E-03
11408	-0.20	1.32E-05	11898	-0.10	4.75E-03	12376	0.12	2.65E-03	12849	-0.20	2.23E-07	13328	0.20	1.93E-05	13905	0.25	3.50E-05
11412	-0.20	1.46E-04	11899	-0.10	2.99E-03	12378	-0.28	1.58E-03	12850	0.12	2.88E-03	13340	0.18	1.97E-03	13906	-0.13	5.01E-03
11415	-0.30	3.68E-03	11900	-0.20	7.46E-03	12379	-0.21	2.03E-07	12853	-0.17	7.32E-03	13346	-0.15	8.46E-03	13917	-0.14	3.23E-03
11431	-0.20	3.44E-06	11901	0.10	8.22E-04	12386	0.22	4.05E-06	12868	-0.20	7.21E-07	13355	-0.17	8.38E-05	13926	-0.21	7.94E-03
11435	-0.20	2.87E-05	11907	-0.10	7.41E-04	12404	-0.15	2.40E-04	12878	-0.14	6.38E-04	13378	-0.38	1.36E-06	13935	0.11	9.43E-03
11442	0.20	1.33E-04	11909	-0.10	2.53E-03	12412	-0.23	8.42E-09	12885	0.14	7.98E-04	13404	-0.33	1.38E-03	13939	-0.18	6.00E-05
11443	-0.20	7.11E-04	11917	-0.20	4.83E-03	12458	0.13	1.22E-03	12902	-0.23	3.61E-08	13406	-0.18	3.84E-05	13949	-0.21	4.17E-04
11462	0.10	4.80E-03	11922	-0.10	6.92E-04	12466	-0.25	1.06E-05	12905	-0.21	4.52E-05	13413	-0.18	6.41E-03	13954	-0.30	1.59E-05
11471	0.30	7.87E-11	11929	0.10	1.22E-05	12477	-0.32	7.46E-07	12907	0.20	9.62E-06	13420	-0.25	3.00E-06	13958	-0.17	7.13E-04
11475	0.20	1.14E-07	11931	0.10	1.71E-03	12482	-0.41	5.20E-12	12927	-0.36	9.12E-20	13423	-0.11	8.49E-03	13980	-0.22	2.60E-04
11477	-0.30	6.36E-03	11932	-0.30	3.30E-06	12484	0.18	4.36E-03	12935	0.14	9.90E-04	13426	0.25	2.93E-04	13984	-0.15	1.72E-04
11486	-0.10	5.95E-03	11939	-0.20	7.00E-06	12489	-0.20	2.04E-03	12941	-0.20	8.12E-03	13432	0.13	1.37E-03	13987	-0.14	3.61E-04
11492	-0.10	4.85E-03	11944	-0.20	4.37E-03	12490	-0.26	3.54E-03	12945	0.14	2.42E-03	13448	0.24	9.99E-08	13994	0.20	9.38E-06
11495	-0.10	7.37E-05	11950	0.10	3.03E-04	12491	0.13	9.57E-04	12948	-0.33	3.94E-07	13466	-0.17	1.99E-05	13997	0.18	3.25E-03
11496	-0.10	1.43E-03	11961	-0.10	1.33E-03	12498	0.21	1.24E-07	12952	0.23	4.53E-09	13472	-0.22	3.59E-03	13998	0.24	1.14E-07
11497	0.20	2.27E-06	11963	0.20	1.32E-07	12503	0.13	2.55E-03	12962	0.20	1.28E-03	13484	0.18	9.55E-05	14007	-0.11	6.24E-04
11513	0.10	1.43E-03	11977	-0.10	2.85E-04	12506	-0.14	3.82E-03	12975	-0.19	4.20E-06	13485	0.21	9.27E-05	14008	0.17	4.37E-05
11536	-0.20	4.71E-04	11983	0.20	9.59E-03	12518	0.16	6.45E-05	12977	0.33	3.96E-10	13491	-0.48	3.62E-04	14036	-0.15	2.89E-03
11549	-0.30	6.77E-07	12000	-0.30	2.69E-09	12524	0.11	6.53E-03	12979	-0.14	2.48E-03	13495	0.16	9.53E-05	14039	-0.16	5.35E-03
11551	-0.30	8.13E-10	12013	-0.10	4.82E-04	12529	0.13	2.48E-03	12980	-0.18	2.31E-03	13496	-0.13	4.97E-03	14049	0.16	7.13E-05
11555	-0.20	1.92E-04	12039	0.20	2.67E-06	12535	-0.17	6.81E-03	12995	0.19	9.18E-06	13519	0.23	3.82E-04	14061	0.15	5.38E-04
11556	0.20	1.72E-05	12056	0.10	9.10E-03	12536	-0.25	4.79E-09	13000	-0.18	6.03E-06	13521	0.18	2.11E-05	14066	-0.26	1.77E-04
11566	-0.10	3.98E-03	12058	0.20	2.10E-05	12546	0.15	2.38E-04	13002	-0.13	2.37E-03	13527	-0.21	2.77E-07	14079	0.33	2.31E-16
11574	-0.40	1.61E-05	12066	-0.20	1.98E-06	12556	0.09	1.55E-03	13010	0.12	3.74E-03	13529	0.32	2.38E-11	14081	-0.20	6.94E-04
11589	0.20	7.16E-05	12067	-0.20	4.90E-05	12566	-0.23	6.65E-07	13020	0.16	5.72E-05	13538	-0.15	5.65E-04	14088	0.14	4.40E-04
11594	0.10	7.70E-04	12071	0.30	6.23E-03	12571	0.24	1.14E-06	13029	0.13	1.86E-03	13542	-0.27	7.24E-09	14089	0.25	8.68E-09
11595	-0.10	6.97E-04	12073	-0.20	2.66E-03	12584	-0.22	1.64E-05	13031	-0.35	5.32E-06	13552	0.10	9.35E-03	14101	-0.25	2.35E-06
11597	-0.20	1.02E-03	12081	-0.20	6.32E-07	12589	-0.11	5.84E-03	13040	-0.20	1.30E-03	13560	0.18	2.86E-04	14106	0.21	8.47E-09
11605	-0.30	1.93E-13	12095	-0.20	5.01E-06	12591	-0.15	9.60E-04	13043	0.23	2.48E-09	13567	-0.16	7.34E-05	14124	-0.18	2.36E-04

11618	0.10	1.82E-03
11628	-0.30	3.46E-10
11636	0.20	2.47E-06
11647	-0.60	9.77E-09
11649	-0.10	8.95E-04
11652	-0.30	3.75E-05
11655	0.10	6.13E-03
11656	-0.20	1.04E-03
11659	-0.10	6.88E-04
11685	-0.20	2.10E-04
11692	-0.40	4.27E-06
11693	-0.20	3.69E-03
11701	-0.20	4.20E-04
11705	-0.10	1.92E-03
11719	-0.20	1.75E-05
11722	-0.10	8.31E-04
11726	0.10	7.70E-04
11728	-0.20	9.81E-05
11735	-0.20	5.98E-03
11741	-0.30	1.12E-08
11756	0.10	6.00E-04
11796	0.10	1.95E-03
11803	-0.20	1.19E-05
11809	-0.20	3.98E-05
14306	0.14	2.37E-03
14307	0.16	3.70E-05
14310	-0.18	3.31E-05
14316	-0.17	2.94E-05
14333	0.17	1.33E-05
14344	-0.21	1.10E-06
14360	0.11	4.33E-03
14365	0.13	1.31E-03
14379	-0.38	2.13E-06
14380	0.29	5.75E-13
14381	-0.26	3.40E-05
14389	-0.23	1.72E-08
14391	-0.14	4.49E-04
14392	0.22	3.09E-06
14424	-0.20	4.14E-03
14426	-0.15	5.48E-04
14448	-0.13	9.67E-03
14450	0.30	3.94E-11
14454	0.16	5.37E-03
14463	0.20	3.50E-06
14476	0.24	8.72E-07
14479	-0.16	1.12E-03
14484	0.19	1.71E-06
14498	-0.18	1.22E-03
14504	-0.24	4.32E-03
14507	0.16	4.28E-05
14515	-0.11	8.80E-03
14523	0.21	2.96E-07
14524	-0.24	2.36E-04

12126	0.20	1.42E-05
12132	0.20	5.32E-08
12144	-0.20	6.78E-03
12162	-0.30	4.91E-13
12173	0.10	1.72E-03
12181	0.20	2.16E-03
12186	0.10	2.07E-03
12193	-0.20	2.24E-04
12208	0.10	3.91E-03
12214	0.30	4.68E-07
12215	-0.20	6.37E-03
12228	-0.40	5.18E-06
12235	-0.30	6.51E-06
12240	0.10	7.22E-03
12241	-0.40	3.54E-07
12253	-0.30	1.41E-10
12254	0.20	9.39E-03
12262	-0.20	1.42E-07
12273	-0.10	1.12E-03
12274	-0.10	2.27E-03
12283	-0.20	5.00E-05
12286	0.40	2.82E-10
12291	0.10	5.52E-03
12293	-0.30	7.33E-07
12297	0.20	1.67E-03
12303	-0.30	9.85E-04
12305	0.20	5.83E-05
14791	0.25	5.16E-09
14797	0.16	9.07E-05
14817	-0.32	1.37E-07
14820	-0.13	2.12E-03
14831	0.20	1.77E-06
14836	-0.16	6.39E-03
14861	0.22	2.37E-03
14873	-0.17	7.56E-05
14891	0.19	9.29E-04
14899	0.15	1.49E-03
14904	0.23	1.23E-08
14908	0.16	1.37E-04
14909	-0.11	6.46E-03
14920	0.18	9.38E-03
14932	0.18	2.76E-03
14938	0.32	6.79E-04
14944	-0.23	5.64E-03
14953	-0.11	8.27E-03
14957	-0.23	9.63E-08
14966	-0.13	2.16E-03
14973	0.15	4.30E-03
14974	-0.17	1.34E-03
14975	-0.17	2.99E-04
14983	-0.37	5.67E-06
15012	-0.82	1.99E-11
15017	-0.20	8.36E-03

12596	-0.12	3.29E-03
12598	-0.25	7.39E-08
12599	0.18	5.31E-06
12604	-0.22	5.49E-03
12605	-0.13	1.76E-03
12611	0.15	1.70E-04
12613	-0.40	7.48E-18
12625	0.16	5.34E-05
12643	0.14	9.78E-03
12644	-0.17	6.45E-04
12668	-0.41	1.92E-18
12673	-0.12	9.13E-03
12675	-0.16	5.21E-04
12681	-0.19	1.14E-03
12683	-0.24	6.34E-09
12685	0.13	6.78E-03
12690	0.15	6.08E-03
12693	0.10	9.01E-03
12710	0.14	1.79E-03
12716	-0.12	4.74E-03
12725	-0.35	5.11E-11
12728	-0.21	7.85E-04
12732	-0.12	3.41E-03
12754	-0.25	2.93E-05
12765	-0.21	9.44E-03
12766	-0.23	3.16E-04
12772	-0.29	6.59E-03
15374	-0.23	7.17E-06
232	0.07	5.00E-02
268	-0.08	5.00E-02
434	-0.08	5.00E-02
717	-0.08	5.00E-02
863	-0.05	5.00E-02
995	-0.12	5.00E-02
1192	0.06	5.00E-02
1269	-0.06	5.00E-02
1316	-0.12	5.00E-02
1372	-0.05	5.00E-02
1609	-0.04	5.00E-02
1682	-0.23	5.00E-02
1891	-0.05	5.00E-02
1976	0.06	5.00E-02
2160	-0.06	5.00E-02
2255	-0.15	5.00E-02
2562	0.05	5.00E-02
2757	0.17	5.00E-02
3016	0.09	5.00E-02
3204	-0.07	5.00E-02
3363	0.29	5.00E-02
3421	0.10	5.00E-02
3857	0.10	5.00E-02
4114	-0.17	5.00E-02
4208	-0.07	5.00E-02

13048	0.13	2.87E-03
13055	0.11	7.32E-03
13059	-0.20	2.67E-06
13060	-0.17	7.91E-05
13075	0.23	4.45E-09
13083	-0.16	1.87E-04
13089	-0.23	1.40E-04
13098	0.15	2.26E-04
13103	-0.18	1.17E-05
13113	-0.12	2.59E-03
13140	0.13	6.57E-04
13142	-0.27	7.46E-05
13143	0.30	4.74E-11
13149	0.14	1.81E-03
13161	-0.14	7.21E-04
13184	-0.13	7.12E-03
13188	-0.27	9.14E-09
13194	0.21	2.77E-06
13195	-0.11	4.93E-03
13200	0.28	1.69E-08
13205	0.14	4.83E-04
13207	0.17	3.88E-04
13214	0.13	1.74E-03
13243	0.27	5.95E-05
13253	-0.19	6.93E-05
13254	0.19	1.97E-06
13255	-0.14	4.04E-04
11482	0.17	5.00E-02
11661	-0.28	5.00E-02
12051	-0.35	5.00E-02
12102	-0.08	5.00E-02
12320	0.61	5.00E-02
12385	0.09	5.00E-02
12422	0.26	5.00E-02
12624	0.23	5.00E-02
12648	-0.34	5.00E-02
13196	-0.49	5.00E-02
13450	-0.11	5.00E-02
13876	-0.37	5.00E-02
13988	0.39	5.00E-02
14181	-0.13	5.00E-02
14190	-0.28	5.00E-02
14286	1.64	5.00E-02
14427	-0.20	5.00E-02
14619	-0.34	5.00E-02
15151	0.82	5.00E-02
15298	0.07	5.00E-02
15355	-0.15	5.00E-02
13791	0.16	6.52E-05
13812	-0.17	7.36E-05
13814	-0.24	2.90E-04
14298	0.19	4.78E-04
14299	-0.11	4.74E-03

13578	0.22	4.13E-08
13580	-0.23	3.13E-03
13583	0.18	2.70E-05
13584	-0.26	5.98E-09
13608	0.29	6.95E-13
13609	0.13	1.68E-03
13615	0.17	6.52E-03
13635	-0.26	1.72E-10
13637	-0.24	3.52E-08
13646	-0.17	7.51E-05
13654	-0.15	3.96E-03
13656	-0.13	1.04E-04
13661	-0.27	2.99E-03
13675	-0.12	3.03E-03
13687	0.17	2.98E-04
13689	-0.26	2.57E-04
13700	-0.15	5.89E-04
13706	0.44	2.99E-12
13707	-0.41	6.33E-05
13713	-0.11	6.23E-03
13720	0.20	4.31E-04
13727	-0.18	6.68E-04
13734	-0.14	2.26E-03
13741	-0.18	5.16E-05

14133	-0.16	1.49E-03
14136	-0.15	7.19E-04
14152	0.19	9.56E-03
14153	-0.29	8.50E-07
14164	-0.15	7.89E-04
14178	0.09	5.85E-03
14184	-0.27	9.01E-03
14189	0.16	4.75E-03
14191	-0.15	3.20E-03
14194	-0.25	4.73E-04
14214	-0.28	8.87E-03
14220	0.17	6.67E-04
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14227	-0.14	7.48E-04
14228	0.10	6.65E-03
14237	-0.23	2.38E-05
14256	0.24	2.04E-03
14259	-0.23	1.47E-03
14265	-0.13	2.39E-03
14270	0.20	8.00E-04
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14296	-0.21	5.57E-07

14525	-0.41	3.98E-05	15018	-0.15	2.16E-04	4540	-0.06	5.00E-02	14301	0.14	5.13E-05
14535	-0.13	3.03E-03	15030	-0.39	9.93E-04	5090	0.14	5.00E-02			
14551	-0.34	5.55E-04	15042	-0.31	7.72E-07	5240	-0.07	5.00E-02			
14560	-0.15	4.78E-03	15043	-0.23	5.03E-08	5488	0.11	5.00E-02			
14572	0.16	9.69E-03	15048	0.18	1.80E-04	5615	0.10	5.00E-02			
14575	-0.24	3.98E-04	15086	-0.26	1.78E-09	5653	0.05	5.00E-02			
14582	0.12	2.31E-03	15103	-0.20	7.33E-04	5716	-0.05	5.00E-02			
14611	0.14	2.65E-03	15105	-0.16	2.50E-04	6123	0.19	5.00E-02			
14612	-0.20	5.44E-07	15113	-0.21	1.46E-03	6218	-0.15	5.00E-02			
14626	-0.38	2.03E-21	15115	-0.16	6.28E-04	6525	1.00	5.00E-02			
14649	0.15	2.46E-04	15128	0.15	2.38E-04	6747	-0.10	5.00E-02			
14651	0.11	5.75E-03	15162	-0.14	9.47E-04	7030	-0.05	5.00E-02			
14654	0.20	4.04E-06	15172	0.17	2.01E-05	7065	0.06	5.00E-02			
14658	0.16	7.26E-06	15182	0.20	4.60E-06	7220	0.26	5.00E-02			
14667	0.12	1.97E-03	15187	-0.39	2.25E-06	7318	-0.11	5.00E-02			
14668	-0.25	3.33E-05	15199	0.13	1.20E-03	7848	-0.05	5.00E-02			
14677	0.15	1.07E-03	15206	0.27	2.38E-11	8058	-0.08	5.00E-02			
14695	-0.19	5.61E-05	15211	-0.15	1.46E-03	8114	0.08	5.00E-02			
14697	-0.18	9.59E-05	15232	-0.26	2.49E-04	8311	-0.06	5.00E-02			
14698	-0.16	5.28E-04	15245	0.17	4.04E-05	8357	0.07	5.00E-02			
14700	-0.18	4.43E-06	15248	0.21	1.09E-03	8507	-0.04	5.00E-02			
14704	0.25	1.61E-03	15252	0.15	4.40E-03	8519	-0.05	5.00E-02			
14705	-0.17	2.64E-03	15254	0.17	3.18E-04	8584	-0.09	5.00E-02			
14708	-0.14	1.53E-03	15260	-0.22	1.11E-05	9017	-0.10	5.00E-02			
14724	-0.13	7.56E-03	15291	0.18	1.80E-04	9169	-0.13	5.00E-02			
14734	-0.21	7.46E-06	15293	-0.15	8.67E-04	9240	0.22	5.00E-02			
14738	-0.37	5.41E-05	15307	0.11	3.99E-03	9428	0.08	5.00E-02			
14739	0.20	4.73E-07	15309	0.13	1.93E-03	10037	-0.09	5.00E-02			
14748	-0.11	3.50E-03	15320	-0.22	7.21E-03	10130	0.07	5.00E-02			
14756	-0.16	1.52E-04	15328	-0.48	6.24E-04	10489	-0.12	5.00E-02			
14767	0.17	4.51E-03	15331	-0.42	2.17E-19	10611	-0.25	5.00E-02			
14773	-0.30	1.99E-11	15333	0.20	7.59E-07	10794	-0.16	5.00E-02			
14778	0.17	2.88E-05	15351	0.12	6.65E-03	11043	-0.05	5.00E-02			
14781	-0.38	2.37E-06	15363	-0.26	9.51E-04	11353	0.40	5.00E-02			
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7822	0.40	4.26E-03	8480	0.50	1.68E-03	9358	0.60	1.10E-04
7827	0.50	7.52E-04	8501	-0.70	5.88E-03	9361	0.50	4.16E-04
7828	0.60	3.98E-04	8506	0.40	3.43E-03	9401	-0.70	8.13E-04
7833	-0.50	3.42E-04	8517	-0.60	8.27E-03	9424	-0.50	2.35E-03
7837	-0.50	7.98E-03	8539	-0.50	1.41E-03	9430	0.40	2.38E-03
7843	-0.50	8.92E-04	8547	0.90	1.89E-03	9445	0.70	3.04E-05
7860	0.70	1.16E-04	8599	0.40	8.30E-03	9459	0.50	3.40E-04
7871	-0.60	1.44E-03	8600	-0.50	5.96E-04	9461	-0.40	6.38E-03
7873	-0.60	3.71E-05	8606	0.60	1.13E-04	9479	-0.90	1.30E-03
7879	0.60	2.02E-04	8611	0.50	6.70E-04	9500	0.60	1.94E-04
7906	-0.40	4.63E-03	8631	0.60	2.17E-05	9529	-0.40	6.63E-03
7929	0.50	6.33E-04	8649	-0.60	6.62E-03	9544	-0.30	5.54E-03
7940	-0.50	1.72E-03	8679	-0.40	1.43E-03	9557	-0.50	1.01E-03
7954	1.00	1.26E-04	8689	-0.40	3.79E-03	9558	-0.50	6.47E-04
7956	0.50	1.25E-03	8698	0.60	8.30E-06	9575	0.40	3.44E-03
7964	-0.40	9.15E-03	8715	0.40	4.47E-03	9583	0.70	9.27E-03
7976	0.50	3.48E-04	8747	0.60	4.76E-05	9584	0.50	2.92E-04
7983	-0.50	9.41E-04	8749	-0.50	7.42E-03	9595	0.40	8.85E-03
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7986	0.70	6.01E-03	8752	-0.80	4.21E-04	9607	0.40	6.38E-03
8039	0.40	3.45E-03	8770	-0.50	3.02E-04	9619	0.70	7.82E-04
11943	0.70	4.05E-03	8773	0.60	4.83E-05	9624	-0.40	2.38E-03
11945	-0.60	1.41E-04	8776	-0.60	9.06E-04	9626	0.60	5.21E-03
11950	-0.40	3.02E-04	8805	0.40	8.10E-03	9628	0.60	8.04E-03
11974	0.50	2.44E-03	12725	0.60	2.39E-04	13646	0.60	3.09E-05
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12012	-0.60	4.63E-03	12820	-0.70	6.36E-03	13672	-0.80	2.46E-04
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12056	-0.40	4.45E-03	12846	0.40	8.09E-03	13720	-0.50	5.83E-03
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12065	-0.60	4.76E-03	12849	0.40	2.51E-03	13725	-0.90	1.28E-04
12073	0.50	5.26E-03	12867	-0.70	1.01E-03	13747	-0.40	9.64E-03
12081	1.00	2.71E-10	12881	-0.40	2.85E-03	13761	0.40	8.70E-03
12091	0.70	6.31E-04	12902	0.40	3.38E-03	13795	-0.50	1.32E-03
12117	0.70	3.40E-04	12905	0.60	6.34E-04	13809	0.50	3.63E-04
12126	-0.40	1.78E-03	12907	-0.80	6.27E-06	13813	-0.40	6.54E-03
12127	-0.60	1.98E-04	12910	0.50	2.26E-03	13816	-0.70	3.82E-03
12162	0.90	1.35E-10	12917	0.40	3.65E-03	13827	-0.60	7.48E-05
12165	-0.90	1.31E-03	12927	0.50	4.38E-04	13834	-0.50	5.07E-03
12173	-0.80	4.79E-06	12940	0.40	5.77E-03	13845	-0.40	7.67E-03

12224	0.60	2.24E-03	12941	1.00	6.65E-05	13847	-0.50	4.49E-03
12230	-0.70	5.71E-03	12948	0.70	1.16E-03	13867	1.00	3.58E-05
12235	0.70	5.01E-04	12950	-0.70	9.41E-07	13878	0.50	2.80E-03
12253	0.70	3.13E-06	12962	-0.60	9.58E-03	13926	1.00	6.91E-05
12262	0.60	3.25E-04	12963	0.40	9.17E-03	13954	0.60	2.66E-03
12275	0.50	4.59E-03	12967	-0.60	3.12E-03	14007	0.50	1.69E-05
12299	-0.50	1.80E-04	12977	-0.70	2.30E-04	14008	-0.40	4.28E-03
12330	-0.60	3.97E-04	12979	0.60	1.82E-04	14025	-0.80	2.12E-04
12336	-0.40	2.06E-03	13001	-0.60	2.23E-03	14035	0.70	6.86E-04
12356	0.70	1.24E-05	13008	0.70	2.09E-03	14045	0.80	6.70E-03
12359	0.40	3.64E-04	13027	-0.40	2.18E-03	14052	-0.50	5.30E-04
12379	0.40	1.62E-03	13060	0.60	3.12E-05	14079	-0.50	1.36E-04
12386	-0.60	1.38E-03	13077	-0.80	4.65E-05	14089	-0.70	2.18E-05
12394	-0.60	3.23E-05	13088	0.30	8.97E-03	14104	0.50	2.64E-03
12400	0.50	7.72E-04	13140	0.50	1.63E-04	14106	-0.70	1.10E-08
12406	-0.50	7.81E-03	13143	-0.50	2.84E-03	14124	0.50	2.72E-03
12433	0.40	1.90E-03	13178	0.70	5.40E-07	14125	-0.90	1.32E-08
12443	-0.60	1.40E-04	13179	-0.60	1.09E-03	14136	0.80	1.11E-07
12444	0.70	4.01E-03	13200	-1.10	3.70E-08	14152	-0.70	4.08E-03
12463	0.60	7.61E-05	13212	0.40	8.66E-03	14189	-0.60	2.09E-03
12466	0.90	9.31E-06	13214	-0.40	4.19E-03	14227	0.40	5.16E-03
12477	0.80	2.74E-05	13281	-0.70	2.04E-04	14242	-0.40	4.79E-03
12536	0.40	4.14E-03	13295	0.90	3.37E-05	14262	0.50	7.22E-05
12566	0.90	4.55E-09	13306	0.70	1.22E-03	14265	0.60	1.62E-04
12584	0.60	1.09E-03	13308	1.00	6.29E-05	14273	0.40	4.78E-03
12592	-0.50	3.73E-03	13310	-0.50	2.08E-04	14278	0.40	3.42E-03
12594	-0.60	6.91E-04	13336	-0.40	3.95E-03	14290	0.60	2.30E-03
12605	0.40	4.19E-03	13372	-0.50	4.26E-03	14296	0.60	5.17E-05
12606	-0.50	3.69E-03	13378	0.70	3.09E-03	14299	0.70	9.44E-06
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12611	-0.50	1.72E-04	13415	0.60	4.20E-03	14316	0.50	1.83E-04
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12615	-0.50	7.02E-04	13466	0.80	1.60E-08	14377	-0.40	1.93E-03
12635	0.80	1.92E-04	13496	0.70	3.29E-05	14379	0.70	5.54E-03
12657	-0.80	3.06E-06	13512	-0.50	9.00E-04	14381	0.60	8.72E-04
12664	0.70	4.38E-04	13516	-0.40	5.94E-03	14392	-0.70	8.10E-05
12665	-0.70	1.26E-03	13529	-0.60	1.01E-03	14430	-0.50	7.39E-04
12668	0.60	1.31E-04	13546	-0.50	7.47E-03	14446	0.70	1.72E-05
12673	0.50	4.23E-04	13560	-1.10	2.08E-11	14450	-0.90	5.82E-08
12692	0.60	5.57E-03	13567	0.50	4.33E-04	14451	0.50	6.25E-03
12701	0.40	9.71E-03	13578	-0.40	9.88E-03	14454	-0.60	2.16E-03
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12706	-0.40	3.39E-03	13604	0.80	5.01E-03	14460	-0.50	1.24E-03

12714	-0.50	1.84E-04	13607	-1.20	3.70E-06	14469	0.60	6.30E-05
12720	0.70	1.86E-05	13608	-0.50	1.16E-03	14476	-0.70	3.97E-04
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3063	0.60	5.89E-06	11114	0.60	3.99E-05	7219	0.50	1.42E-03
3072	-0.90	3.08E-04	11120	-0.50	9.58E-03	7227	-0.70	1.71E-05
3075	0.50	1.47E-03	11140	0.70	7.49E-06	7228	-0.70	1.55E-05
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3115	0.50	3.17E-03	11204	0.70	5.10E-03	7277	0.50	3.02E-03
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3159	-0.60	5.97E-05	11244	-0.70	1.07E-07	7305	0.50	1.18E-03
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3182	-0.70	1.89E-06	11273	-0.50	9.44E-04	7373	-0.40	5.41E-03
3183	0.80	6.67E-08	11288	-0.50	6.82E-03	7396	0.50	4.89E-04
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3277	0.40	4.21E-03	11417	-0.70	3.29E-06	6839	-0.60	1.32E-05
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3344	-0.40	9.39E-03	11551	0.80	5.58E-08	6906	-0.80	7.21E-08
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3514	-0.50	7.79E-03	11705	-0.40	6.13E-03	3642	0.70	3.13E-04
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3530	0.40	3.08E-03	11721	0.40	9.91E-03			

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0.13	0.13	0.13
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-0.16	-0.16	-0.16
0.25	0.25	0.25
-0.05	-0.05	-0.05
-0.10	-0.10	-0.10
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-0.07	-0.07	-0.07
0.08	0.08	0.08
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-0.08	-0.08	-0.08
-0.18	-0.18	-0.18
0.21	0.21	0.21
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-0.15	-0.15	-0.15
-0.07	-0.07	-0.07
0.12	0.12	0.12
0.08	0.08	0.08
0.15	0.15	0.15
-0.09	-0.09	-0.09
0.15	0.15	0.15
0.07	0.07	0.07
-0.09	-0.09	-0.09
0.10	0.10	0.10
0.10	0.10	0.10
-0.17	-0.17	-0.17
0.15	0.15	0.15
-0.13	-0.13	-0.13
-0.24	-0.24	-0.24
-0.18	-0.18	-0.18

-0.25	-0.25	-0.25
0.13	0.13	0.13
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0.07	0.07	0.07
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0.07	0.07	0.07
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0.09	0.09	0.09
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0.14	0.14	0.14
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-0.20	-0.20	-0.20

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0.17	0.17	0.17
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0.12	0.12	0.12
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0.08	0.08	0.08
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0.09	0.09	0.09
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0.14	0.14	0.14
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0.12	0.12	0.12
0.09	0.09	0.09
0.10	0.10	0.10
0.12	0.12	0.12
0.07	0.07	0.07
0.11	0.11	0.11
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0.10	0.10	0.10
-0.20	-0.20	-0.20
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-0.09	-0.09	-0.09
-0.09	-0.09	-0.09
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-0.18	-0.18	-0.18
-0.11	-0.11	-0.11
0.10	0.10	0.10

-0.12	-0.12	-0.12
0.13	0.13	0.13
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0.13	0.13	0.13
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0.08	0.08	0.08
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0.13	0.13	0.13
0.09	0.09	0.09
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0.10	0.10	0.10
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0.19	0.19	0.19
0.15	0.15	0.15
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-0.16	-0.16	-0.16
0.14	0.14	0.14
0.12	0.12	0.12
0.07	0.07	0.07
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-0.09	-0.09	-0.09
0.08	0.08	0.08

A	B	C	A	B	C
1740	0.40	6.85E-03	2360	0.60	1.09E-04
1751	-0.60	5.92E-05	2391	0.40	7.27E-03
1757	0.90	1.88E-08	2394	0.50	3.46E-03
1789	-0.60	3.69E-04	2398	-0.50	1.64E-04
1799	-0.50	1.07E-03	2400	-0.60	7.27E-04
1815	0.70	4.82E-03	2407	-1.20	3.13E-04
1842	-0.80	1.03E-05	2409	0.70	3.37E-06
1847	0.50	5.13E-03	2421	0.50	3.23E-04
1853	-0.80	6.67E-03	2425	-0.70	2.74E-06
1889	0.40	2.73E-03	2426	-0.70	2.39E-06
1890	-0.60	3.04E-03	2448	0.40	2.01E-03
1892	-0.40	7.19E-03	2452	-0.80	7.79E-03
1904	-0.50	5.47E-04	2471	-0.60	9.21E-05
1910	-0.80	5.15E-03	2472	0.60	3.01E-04
1925	-0.50	2.85E-03	2481	-0.90	7.61E-03
1926	-0.40	8.92E-03	2484	-0.50	1.14E-04
1944	0.30	7.97E-03	2485	-0.60	9.39E-06
1969	0.70	1.38E-04	2491	0.40	5.93E-03
1971	0.60	1.04E-05	2499	-0.90	1.65E-07
1995	-0.80	5.86E-03	2501	0.30	9.88E-03
2014	0.60	9.15E-03	2521	-0.60	1.76E-03
2016	-0.80	5.45E-09	2544	0.50	3.05E-04
2017	0.50	2.68E-03	2564	-0.60	2.28E-04
2019	-0.50	5.72E-04	2568	-0.50	6.57E-04
2024	-0.80	3.03E-04	2587	0.40	9.36E-03
2043	0.50	8.69E-04	2591	0.50	5.58E-04
2044	0.70	1.52E-06	2595	0.60	2.78E-05
2046	-0.40	7.96E-03	2614	0.90	7.81E-06
2048	-0.40	5.86E-03	2622	-0.40	8.70E-03
2049	0.50	4.33E-04	2624	0.40	6.31E-03
2061	0.50	4.19E-03	2650	-0.50	1.24E-03
2071	0.70	1.78E-03	2685	0.40	3.10E-03
2074	-0.60	8.03E-04	2696	-0.70	5.36E-07
2080	0.50	1.82E-03	2702	-0.60	1.11E-03
2088	-0.40	5.87E-03	2712	0.50	4.94E-04
2107	-0.90	2.67E-06	2713	-0.40	6.29E-03
2112	-0.90	8.32E-04	2738	0.50	4.21E-03
2118	-0.80	1.71E-06	2739	0.40	6.33E-03
2128	0.40	9.45E-03	2746	-0.30	6.92E-03
2136	0.70	1.73E-04	2756	0.40	4.83E-03

2137	-0.40	4.85E-05	2780	0.60	2.65E-04
2145	-0.60	1.10E-05	2786	-0.50	1.92E-03
2171	0.40	1.38E-03	2792	0.70	1.67E-06
2193	-0.50	5.88E-03	2793	0.50	1.82E-03
2201	-0.60	1.53E-04	2799	-0.60	3.91E-04
2215	-0.40	8.23E-03	2801	0.40	2.49E-03
2224	0.40	7.75E-03	2824	-0.80	6.91E-08
2230	1.10	8.31E-03	2828	0.40	7.96E-03
2245	0.50	5.70E-03	2847	-0.90	7.65E-04
2248	0.30	2.07E-03	2860	-1.60	1.91E-05
2261	0.70	9.70E-07	2872	-0.40	9.46E-03
2271	-0.40	3.47E-03	2890	-0.40	3.28E-03
2276	-0.50	1.30E-03	2896	0.90	3.17E-06
2303	-0.90	1.01E-06	2928	-0.50	3.81E-03
2314	0.30	6.37E-03	2929	0.50	7.82E-04
2320	0.60	7.83E-05	2930	0.40	4.86E-03
2325	0.50	4.98E-04	2959	0.50	7.23E-04
2330	-0.60	4.06E-05	3024	-0.40	7.18E-03
2335	0.50	2.91E-03	3026	0.40	3.18E-03
2336	-0.50	1.11E-03	3028	0.40	9.09E-03
2341	0.50	2.39E-03	3029	1.00	8.25E-05
2343	-0.50	8.30E-05	3034	-0.60	9.70E-04
2346	0.70	3.51E-04	3040	0.40	5.42E-03
2357	-0.70	1.22E-03	3048	-0.80	1.51E-06
5545	0.90	1.34E-05	6210	0.70	8.00E-03
5548	-0.60	9.02E-05	6212	0.60	6.56E-03
5560	0.40	1.38E-03	6230	-0.50	1.31E-03
5577	-1.00	1.20E-04	6232	-0.30	8.27E-03
5581	0.50	3.20E-03	6246	-0.60	3.42E-04
5590	-0.50	7.11E-04	6253	0.40	4.68E-03
5596	0.50	2.69E-03	6254	0.50	8.57E-03
5597	0.50	3.68E-03	6265	0.40	9.36E-03
5605	0.50	1.27E-03	6291	-0.60	6.68E-03
5606	0.40	9.48E-03	6294	0.40	4.47E-03
5610	0.80	1.79E-03	6297	-0.60	6.75E-05
5626	-0.50	2.87E-03	6318	0.50	1.65E-03
5634	-0.70	1.65E-06	6321	-0.70	2.26E-05
5635	-0.60	3.74E-06	6333	-0.80	2.19E-07
5639	0.40	3.91E-03	6369	-0.70	1.66E-05
5643	-0.70	2.18E-04	6376	-0.60	2.62E-05
5660	0.40	2.28E-03	6377	-0.70	6.07E-04
5665	-0.50	5.62E-03	6381	0.40	4.46E-03

5667	0.70	1.63E-04	6389	0.70	2.53E-03
5668	0.50	1.33E-03	6398	0.60	7.25E-04
5671	0.50	2.56E-03	6404	-0.50	1.47E-03
5688	0.70	2.76E-04	6408	-0.60	5.77E-05
5703	-0.40	9.87E-03	6416	-0.40	3.36E-03
5704	-0.60	3.49E-06	6429	-0.40	4.20E-03
5705	0.40	5.12E-03	6433	0.50	3.49E-04
5731	-0.40	8.59E-03	6439	0.50	7.12E-04
5744	0.40	6.09E-03	6440	-0.40	1.82E-03
5746	0.40	3.93E-03	6468	0.60	6.54E-03
5754	0.50	3.62E-04	6477	-0.70	1.93E-03
5768	0.40	9.47E-03	6480	0.50	9.87E-03
5780	0.40	2.61E-03	6504	0.70	1.85E-06
5788	0.60	2.51E-03	6505	0.50	2.06E-03
5790	0.60	9.88E-03	6520	-0.50	3.11E-03
5806	0.70	1.92E-03	6528	0.50	3.55E-03
5808	-0.80	6.44E-03	6531	-0.70	3.10E-03
5822	1.00	7.33E-05	6537	0.70	4.29E-06
5831	0.50	4.37E-03	6548	-0.40	6.15E-03
5838	0.40	7.38E-03	6555	-0.40	3.27E-03
5870	0.50	6.38E-04	6564	-0.60	5.09E-03
5874	-0.70	3.10E-07	6572	0.60	1.17E-03
5875	0.90	1.83E-08	6577	0.40	8.16E-03
5908	-0.70	1.76E-03	6584	0.50	7.65E-04
5945	0.40	5.06E-03	6596	0.50	1.04E-04
5966	-0.50	2.78E-04	6601	0.40	4.83E-03
5982	0.70	3.85E-07	6603	1.00	1.35E-04
5998	-0.40	6.71E-03	6605	0.70	4.15E-07
5999	0.80	1.91E-07	6617	-1.20	8.19E-05
6002	0.30	5.56E-03	6638	-0.50	2.38E-03
6013	0.90	3.41E-04	6639	-0.80	2.68E-08
6016	0.50	2.25E-04	6643	0.40	3.10E-03
6024	-0.40	4.96E-03	6646	0.60	1.30E-04
6028	-0.50	7.21E-03	6660	0.60	7.60E-05
6030	0.50	2.78E-03	6672	0.50	4.69E-04
6039	-0.40	6.79E-03	6681	0.60	2.47E-04
6058	0.50	4.20E-04	6684	-0.70	5.35E-04
6061	0.80	5.14E-04	6689	0.50	6.02E-04
6095	-1.80	1.79E-07	6692	-0.50	5.63E-06
6096	-1.30	4.17E-04	6703	0.50	4.59E-03
6104	0.60	3.89E-05	6706	-0.60	1.18E-04
6110	0.50	5.02E-03	6732	0.50	3.09E-04

6118	0.50	1.60E-04	6741	-0.80	6.19E-03
6159	0.60	6.60E-04	6760	0.50	3.12E-03
6195	0.40	3.45E-03	6776	0.50	1.17E-03
6200	0.70	2.03E-04	6780	0.40	6.35E-03
9661	0.90	8.78E-04	10322	-0.40	1.28E-03
9665	0.60	2.17E-03	10329	-0.50	8.15E-03
9670	0.50	1.03E-03	10345	0.40	4.54E-03
9676	-0.50	5.45E-04	10355	-0.60	3.09E-04
9685	0.70	9.92E-04	10363	-0.40	4.71E-03
9686	0.70	3.12E-03	10374	0.30	7.98E-03
9693	0.50	4.61E-04	10381	0.40	6.65E-03
9698	-0.60	1.97E-05	10387	0.40	2.18E-03
9701	0.60	1.74E-04	10391	-0.40	5.99E-03
9708	-0.60	1.27E-03	10395	-0.60	7.00E-04
9732	-0.80	3.54E-04	10396	0.50	3.82E-03
9750	0.50	1.50E-03	10399	-0.80	2.02E-08
9761	-0.50	2.28E-04	10402	-0.70	1.52E-06
9773	0.60	8.31E-04	10444	0.50	4.52E-03
9774	0.50	1.74E-04	10456	0.80	9.86E-05
9807	-0.50	4.53E-03	10475	-1.00	2.33E-03
9822	0.60	1.23E-03	10509	0.50	3.11E-03
9835	-0.70	2.57E-04	10515	1.00	1.18E-03
9838	-0.40	8.55E-03	10538	-0.80	1.81E-05
9858	0.30	7.53E-03	10539	-0.50	2.51E-04
9872	0.70	3.54E-03	10548	-0.50	4.17E-04
9894	-0.40	8.50E-03	10569	-0.40	7.52E-03
9917	0.70	2.12E-04	10570	0.50	2.42E-03
9919	-0.50	2.76E-04	10576	0.60	1.74E-05
9927	-0.50	2.89E-03	10584	0.70	3.66E-06
9932	-0.50	4.87E-03	10604	0.70	2.43E-04
9945	0.50	2.27E-03	10618	0.50	1.18E-04
9967	0.50	1.78E-03	10634	-0.50	3.56E-03
9995	-0.50	3.76E-04	10649	-0.50	2.46E-04
10003	0.50	3.81E-04	10655	0.70	2.61E-07
10025	0.60	3.75E-04	10666	-0.60	6.57E-03
10033	0.40	6.56E-03	10678	0.90	9.32E-04
10034	0.40	3.13E-03	10681	-0.80	5.30E-08
10036	0.50	2.31E-03	10686	-0.70	2.43E-04
10038	0.60	1.17E-04	10706	0.50	3.77E-03
10044	-0.50	1.19E-03	10717	0.40	7.98E-03
10052	0.70	5.99E-03	10734	-0.60	5.15E-05
10066	0.60	1.01E-05	10738	0.60	4.41E-03
10074	0.70	8.10E-04	10746	0.50	1.74E-04

10081	0.70	2.14E-06	10769	0.50	1.15E-03
10082	0.50	2.78E-03	10773	0.60	1.55E-04
10100	0.80	4.41E-07	10780	0.60	1.12E-05
10102	-0.80	5.94E-05	10791	-0.50	1.34E-03
10114	-0.80	1.21E-03	10807	0.60	1.67E-04
10132	-0.50	5.17E-03	10814	-0.50	1.12E-03
10139	0.40	2.00E-03	10818	0.80	5.09E-09
10144	0.40	4.19E-03	10821	-0.80	1.01E-05
10153	-0.80	1.20E-07	10837	-0.80	1.02E-06
10177	-0.60	3.97E-04	10838	-0.80	6.87E-08
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114	-1.10	6.62E-05	2571	-1.80	1.87E-10	4977	-1.40	1.34E-05
118	-0.70	1.26E-03	2575	1.80	3.67E-07	4978	-2.60	6.19E-05
120	-1.40	9.62E-06	2577	-1.10	4.07E-03	4987	-2.20	8.76E-04
126	1.20	2.26E-04	2578	-2.20	5.00E-08	4991	-1.70	7.70E-14
131	1.40	1.52E-12	2580	1.60	1.55E-11	4995	-1.50	5.20E-05
135	-0.80	1.16E-03	2582	-1.20	5.08E-08	4996	-2.20	7.31E-10
137	-0.60	4.31E-03	2587	-0.80	1.52E-03	5003	-1.90	1.37E-06
138	-0.90	1.43E-04	2591	-0.90	2.06E-04	5004	-2.60	1.72E-09
141	-0.80	9.53E-05	2595	2.00	2.74E-22	5005	-2.60	1.74E-09
143	0.90	2.88E-04	2597	1.50	4.01E-06	5010	-1.50	1.42E-05
145	1.20	5.32E-06	2599	-0.70	4.25E-03	5013	0.70	5.84E-04
152	1.80	1.35E-11	2604	-1.80	5.41E-11	5016	-1.50	1.10E-15
153	-1.20	6.11E-05	2607	-1.20	1.07E-05	5025	2.10	5.95E-27
154	-1.50	1.48E-05	2608	1.70	1.42E-14	5026	-0.80	3.70E-03
156	0.70	1.13E-03	2611	-1.50	1.53E-06	5030	-0.70	1.15E-03
159	-1.20	1.90E-04	2612	-0.90	2.32E-04	5034	0.70	2.02E-03
162	-2.00	1.64E-05	2613	-1.90	9.75E-13	5036	1.10	2.21E-06
168	1.90	4.05E-18	2617	-1.40	1.07E-04	5037	-1.00	5.65E-06
171	1.40	1.29E-11	2619	1.50	2.52E-07	5038	-1.60	8.36E-03
173	-1.70	1.38E-04	2620	1.30	2.73E-13	5044	-0.90	2.19E-03
174	1.30	3.66E-05	2622	0.70	1.63E-03	5046	-0.60	8.15E-03
176	-2.60	5.39E-28	2624	1.10	3.18E-07	5047	2.10	2.47E-05
177	0.80	2.73E-04	2628	-1.60	8.87E-04	5053	-1.10	1.17E-04
181	2.00	1.35E-22	2630	1.30	1.37E-04	5057	-1.40	2.38E-05
258								
185	0.80	2.16E-04	2633	-2.90	8.58E-13	5060	1.00	6.33E-06
186	1.50	3.98E-11	2638	-1.50	1.13E-03	5061	-2.90	9.88E-13
189	-1.10	2.27E-04	2640	1.70	1.39E-05	5063	-2.80	8.36E-12
191	-1.50	1.77E-10	2642	1.40	4.49E-10	5066	-0.80	1.29E-04
194	1.50	2.33E-13	2646	0.80	1.04E-03	5069	1.40	3.54E-12
196	0.70	5.39E-04	2647	0.80	1.36E-04	5070	1.40	6.29E-09
200	-1.40	9.89E-11	2649	-0.80	3.88E-04	5071	1.00	1.24E-06
201	-0.70	3.10E-03	2657	1.20	1.87E-07	5074	-2.10	1.15E-05
203	-0.80	5.24E-04	2664	0.90	1.67E-05	5078	-1.00	3.01E-07
206	0.90	1.10E-03	2665	0.90	1.49E-05	5079	2.20	1.30E-27
209	0.60	3.69E-03	2668	-1.80	6.85E-16	5083	1.10	7.53E-06
210	-0.80	5.05E-04	2684	1.10	1.60E-04	5086	1.50	1.71E-13
215	-2.20	1.24E-10	2686	1.60	5.31E-12	5088	0.80	1.05E-07
217	2.40	1.57E-20	2687	1.10	1.44E-06	5093	-1.70	1.62E-14
219	1.60	8.51E-13	2688	-2.00	3.78E-19	5094	1.30	1.41E-05

220	-1.20	3.10E-07	2693	1.40	7.24E-09	5098	1.20	8.99E-08
221	-1.50	5.64E-09	2694	0.90	3.26E-03	5102	-1.90	3.23E-04
222	-1.30	2.67E-08	2696	1.80	1.71E-16	5107	-1.20	6.30E-03
225	1.00	1.14E-06	2698	0.70	1.41E-03	5117	2.20	8.67E-10
226	-1.50	7.87E-04	2702	0.80	4.96E-03	5122	-1.90	3.93E-08
231	-2.10	2.81E-15	2703	-1.30	2.16E-04	5124	-2.10	6.13E-18
238	-1.60	1.00E-07	2705	-1.50	1.60E-10	5125	1.50	6.57E-13
242	0.80	2.02E-04	2707	-1.40	4.81E-08	5133	-3.10	4.55E-13
246	-1.60	4.77E-06	2712	-0.90	5.46E-05	5134	-2.00	4.82E-18
248	1.30	5.21E-04	2714	-3.70	1.63E-12	5138	-1.10	5.67E-06
249	-1.30	5.20E-09	2722	-0.80	7.47E-04	5140	1.20	1.30E-04
251	1.00	5.81E-08	2726	1.00	4.83E-04	5145	-0.80	3.14E-04
255	1.40	6.80E-04	2727	0.90	2.59E-05	5147	0.70	8.67E-03
256	-1.20	2.54E-04	2730	-2.80	9.43E-10	5148	-1.80	1.29E-12
257	1.00	1.20E-05	2731	-2.70	1.36E-09	5149	-1.00	1.28E-05
258	-0.60	3.69E-03	2733	1.10	2.16E-03	5152	0.50	3.79E-03
259	2.20	2.37E-06	2735	2.40	1.33E-31	5164	-1.40	1.51E-11
262	-0.60	5.00E-03	2736	0.80	1.05E-04	5168	-0.70	1.45E-03
270	1.10	4.04E-10	2737	-1.40	6.32E-03	5172	-1.60	1.59E-12
272	-1.10	1.81E-06	2740	0.90	1.38E-04	5175	-0.90	9.57E-03
273	1.20	9.58E-06	2742	-1.80	1.12E-04	5176	-3.00	1.39E-06
282	1.20	5.36E-09	2743	1.10	8.33E-06	5177	-0.80	2.76E-04
289	1.00	3.02E-03	2746	1.00	1.82E-10	5178	1.20	1.02E-04
298	1.40	1.95E-10	2752	-2.20	5.00E-08	5179	-1.60	2.18E-04
301	-0.80	6.33E-04	2754	3.00	8.91E-55	5183	-1.50	7.36E-04
305	1.60	6.77E-14	2756	-2.60	4.76E-35	5185	1.40	2.20E-09
307	1.30	9.87E-10	2758	0.90	3.48E-05	5186	1.30	2.46E-06
312	-1.10	8.77E-07	2760	-1.80	6.68E-16	5197	-1.10	1.29E-05
315	1.10	4.27E-06	2761	-1.80	1.95E-15	5198	-1.10	6.60E-04
318	-1.60	3.66E-14	2769	-0.60	2.04E-03	5199	-1.30	5.52E-06
320	-1.30	5.43E-03	2770	-0.70	9.06E-03	5204	-1.20	1.39E-06
321	2.30	9.78E-13	2772	-1.40	4.53E-08	5205	-0.90	3.48E-03
323	-1.80	4.46E-07	2773	-1.40	2.75E-05	5207	1.20	7.82E-07
326	0.60	2.79E-03	2774	1.80	3.77E-09	5209	0.60	5.59E-03
327	-1.00	1.46E-04	2776	-1.80	9.56E-04	5211	0.90	1.66E-03
328	-1.40	1.26E-05	2778	1.20	6.53E-09	5219	1.20	2.85E-06
330	-2.20	1.01E-09	2781	2.20	3.55E-24	5229	-1.30	2.00E-04
331	-1.20	1.65E-07	2782	1.10	3.04E-13	5230	1.60	1.95E-16
333	1.40	7.15E-12	2786	0.50	9.98E-03	5231	1.60	1.92E-11
335	-1.30	1.31E-05	2788	0.80	2.53E-03	5232	1.50	2.02E-06

336	-2.30	2.26E-22	2789	1.30	2.12E-04	5235	-1.90	1.39E-10
337	2.00	1.70E-21	2791	0.80	1.97E-03	5237	1.10	7.21E-07
343	-3.30	3.47E-07	2795	0.60	2.93E-03	5239	-1.50	3.83E-09
345	-1.80	4.12E-08	2816	-1.80	1.75E-04	5241	-1.10	6.53E-08
348	-1.00	1.23E-05	2820	-1.40	1.95E-06	5242	0.60	7.73E-04
353	0.70	1.78E-03	2821	-1.20	4.07E-07	5247	1.30	9.80E-10
354	-2.80	1.42E-17	2822	-1.40	2.65E-08	5251	-0.50	9.90E-04
359	1.10	4.37E-07	2824	0.80	3.55E-04	5252	-0.50	6.71E-04
259								
364	-1.30	1.62E-03	2826	-1.20	8.39E-03	5253	1.00	5.32E-07
368	0.50	2.63E-03	2828	1.60	1.78E-11	5255	0.60	3.76E-03
369	1.60	1.24E-11	2829	-2.10	2.76E-11	5257	1.20	8.50E-03
372	-1.60	2.54E-05	2830	-2.20	9.55E-12	5258	1.40	3.31E-04
373	2.60	1.07E-09	2832	0.60	8.99E-03	5261	-1.50	2.36E-10
376	-2.50	3.68E-10	2834	1.10	6.52E-05	5262	1.40	5.25E-05
377	-3.70	1.75E-12	2836	0.70	2.64E-03	5267	-1.90	4.55E-04
380	0.70	3.21E-03	2838	-2.00	4.21E-15	5272	0.70	1.91E-03
381	0.90	2.71E-05	2841	-1.30	5.70E-04	5273	-1.70	7.60E-14
386	-1.90	2.07E-04	2843	1.50	8.75E-14	5274	-1.70	7.28E-14
393	2.30	3.37E-25	2844	-1.90	1.43E-05	5275	-1.70	5.04E-13
394	-2.20	1.12E-20	2845	-2.00	8.87E-06	5278	1.00	2.81E-04
395	-1.50	3.32E-11	2848	-2.30	5.02E-25	5279	-1.20	3.05E-08
396	-1.40	1.71E-06	2850	-1.60	3.37E-05	5280	1.50	9.97E-07
397	0.70	1.08E-03	2860	2.00	2.97E-06	5283	0.70	4.17E-03
404	2.10	1.05E-17	2862	-1.20	7.00E-03	5285	-2.70	1.79E-26
407	-1.00	8.39E-05	2867	-2.00	7.61E-07	5288	-1.70	1.79E-03
408	-2.70	6.22E-14	2872	0.80	1.55E-04	5291	2.20	1.51E-09
410	-1.20	3.54E-09	2874	-1.10	3.41E-05	5293	-1.60	3.49E-05
411	-1.20	2.93E-09	2877	2.10	9.41E-08	5294	1.20	8.98E-05
412	-2.20	8.21E-12	2878	-1.00	8.87E-06	5295	-2.00	5.78E-08
415	-2.20	1.21E-15	2882	1.80	1.90E-15	5300	1.40	2.86E-04
416	-0.80	2.72E-03	2888	-1.50	5.07E-11	5302	-2.10	4.98E-27
418	1.60	1.20E-06	2889	0.70	2.17E-03	5308	-1.70	5.05E-14
425	-1.30	8.39E-09	2890	2.00	2.17E-29	5310	-1.50	2.01E-04
426	-0.60	8.61E-03	2896	-1.40	4.19E-05	5316	1.80	5.31E-14
428	0.80	1.81E-04	2900	1.00	4.46E-05	5317	1.90	6.65E-20
429	1.50	1.02E-11	2901	-2.80	1.73E-23	5320	1.00	5.23E-05
444	-1.20	1.94E-06	2907	-1.10	6.58E-06	5321	1.50	6.26E-12
447	-1.10	3.10E-05	2910	-0.80	5.00E-04	5323	-1.50	1.98E-11
450	1.10	1.39E-07	2914	1.60	1.50E-12	5326	-1.30	1.91E-08

465	-1.60	1.36E-05	2922	1.40	6.41E-06	5329	-2.40	6.45E-07
467	-2.30	1.09E-22	2924	1.90	7.19E-22	5330	0.70	2.17E-03
470	-1.20	2.30E-04	2927	0.60	6.04E-03	5331	-0.90	7.74E-04
474	1.20	1.27E-07	2941	-1.90	4.26E-10	5333	-0.90	3.26E-04
476	1.80	3.70E-15	2946	1.60	8.04E-13	5334	-0.90	2.87E-04
478	1.30	1.22E-10	2954	-0.90	6.20E-08	5335	-0.80	1.78E-03
479	-4.80	4.53E-15	2955	-2.40	2.62E-09	5338	0.60	9.35E-04
481	1.00	2.25E-05	2959	-2.10	3.94E-19	5340	-2.20	1.62E-03
484	0.80	5.46E-04	2961	-1.80	2.11E-03	5344	2.00	1.66E-24
488	-0.70	3.95E-03	2962	1.10	1.31E-06	5345	2.70	2.86E-38
490	-1.40	2.53E-04	2965	0.60	2.20E-03	5348	1.60	4.77E-09
497	-2.90	6.35E-24	2968	-0.80	1.59E-03	5350	0.70	4.88E-03
499	1.70	6.75E-11	2970	-1.20	2.01E-04	5353	2.30	1.57E-27
500	1.40	2.41E-05	2971	-1.70	2.49E-13	5355	0.80	1.04E-04
507	-1.80	1.04E-15	2974	-1.90	2.14E-08	5360	1.30	2.03E-06
508	2.00	4.95E-22	2978	0.70	1.24E-03	5361	-1.40	1.48E-06
511	-1.20	3.29E-04	2995	0.60	5.12E-03	5367	-1.30	7.19E-09
522	-1.30	1.16E-03	2996	0.60	6.58E-03	5368	0.70	2.59E-03
524	0.60	2.84E-03	2997	0.70	4.96E-04	5369	-1.10	2.48E-04
525	-1.00	2.36E-03	2998	-1.60	5.86E-08	5372	-1.30	2.61E-03
526	-0.80	1.49E-03	3003	1.40	6.68E-06	5373	-0.80	5.72E-03
529	-1.10	2.83E-04	3004	0.50	2.77E-03	5374	-0.90	3.83E-03
530	-2.20	3.70E-04	3006	1.30	4.68E-11	5377	1.40	3.97E-07
531	1.30	9.04E-09	3008	1.30	4.84E-06	5379	-1.80	1.68E-16
532	1.40	4.28E-10	3012	1.00	6.22E-04	5381	1.70	5.75E-15
534	-1.50	4.00E-09	3021	0.90	1.06E-03	5384	0.80	5.15E-05
535	1.00	7.35E-05	3022	1.30	3.82E-06	5397	1.30	6.14E-10
537	0.80	2.46E-06	3026	-1.30	4.60E-09	5399	-2.10	2.71E-16
538	-0.90	1.66E-05	3027	-2.20	1.14E-09	5402	-0.90	5.99E-09
539	-1.00	3.38E-06	3028	0.80	2.82E-04	5404	-0.70	5.02E-04
540	-2.10	1.55E-20	3029	-1.70	1.38E-03	5405	-0.70	3.65E-03
541	-0.80	3.08E-03	3031	1.90	4.22E-09	5412	-1.00	5.31E-05
260								
543	0.90	2.21E-03	3033	-2.90	5.01E-08	5413	0.70	1.08E-03
546	-0.90	2.88E-05	3034	2.10	5.34E-16	5414	-1.40	5.58E-10
550	1.70	1.36E-09	3035	1.10	1.62E-04	5417	1.10	5.70E-06
552	1.30	3.41E-10	3037	-1.60	3.95E-12	5418	0.50	3.62E-04
553	-0.80	6.71E-04	3039	0.80	1.04E-03	5419	0.80	7.29E-05
559	0.90	5.60E-06	3040	-0.90	1.39E-05	5423	1.30	9.36E-03
561	-2.50	2.20E-13	3042	1.40	1.28E-08	5429	1.60	8.80E-14

565	1.40	2.10E-11	3044	-2.00	1.33E-10	5430	-1.30	7.84E-03
569	-0.80	1.25E-04	3048	1.80	4.38E-15	5431	-2.30	9.65E-06
570	-1.60	2.68E-13	3050	-2.90	3.37E-21	5432	2.20	6.63E-34
571	0.80	3.44E-04	3053	1.60	3.47E-10	5435	0.60	3.34E-03
580	-1.30	1.17E-08	3057	-0.70	1.13E-03	5437	0.60	4.01E-03
582	1.10	2.66E-07	3061	-1.50	9.13E-04	5438	0.90	4.78E-05
583	-1.10	1.22E-07	3062	-1.20	4.95E-07	5439	-1.50	1.33E-03
588	-1.00	1.54E-03	3066	1.00	3.92E-06	5440	-1.80	1.42E-03
592	1.10	5.93E-08	3068	1.40	4.32E-11	5443	0.90	6.28E-03
594	-1.00	5.59E-06	3069	1.20	5.14E-08	5446	1.60	2.33E-14
595	-1.60	1.14E-09	3072	1.80	2.54E-08	5448	1.60	1.50E-07
598	-0.80	2.61E-04	3074	-1.20	3.12E-03	5451	-0.80	2.87E-03
599	-0.70	7.00E-03	3075	1.00	7.04E-05	5455	-1.00	6.25E-05
614	-2.10	8.79E-19	3076	1.20	1.81E-06	5456	-1.30	4.56E-03
615	1.20	4.11E-09	3077	0.70	1.31E-03	5459	0.70	2.24E-03
617	-1.20	1.47E-07	3079	-1.20	1.75E-05	5461	-1.20	1.87E-04
620	1.30	3.60E-10	3089	-1.60	1.13E-11	5463	-1.00	1.37E-06
621	0.70	4.69E-03	3092	1.50	1.66E-03	5465	1.00	2.11E-06
623	0.60	6.68E-03	3093	1.50	7.32E-06	5466	-0.90	2.86E-05
628	1.20	1.22E-04	3097	-1.30	3.16E-07	5470	-2.20	1.56E-19
629	2.30	1.89E-24	3100	-1.50	6.54E-07	5473	-1.40	3.65E-10
633	0.90	3.66E-04	3103	-1.10	9.74E-05	5475	1.40	3.50E-03
636	1.50	3.77E-11	3104	-0.70	2.47E-03	5480	1.90	7.66E-15
637	-0.60	7.08E-03	3111	0.90	2.12E-03	5485	-1.50	4.25E-03
644	2.00	7.46E-23	3112	0.70	2.25E-03	5486	-1.50	4.26E-03
647	1.40	5.88E-11	3114	0.70	3.06E-03	5489	-0.90	3.07E-05
648	1.10	1.75E-06	3116	0.70	5.24E-03	5491	1.70	3.96E-15
649	1.80	7.32E-17	3117	1.40	4.80E-04	5493	-0.80	4.88E-04
653	1.10	1.29E-03	3118	-1.20	2.42E-06	5494	-0.90	4.45E-05
654	1.30	5.72E-07	3120	-0.70	1.15E-03	5495	1.10	5.38E-04
655	0.70	3.37E-03	3122	0.90	4.64E-05	5499	1.10	3.30E-07
657	-1.60	5.13E-12	3124	-2.00	1.17E-20	5501	2.10	1.47E-24
660	1.20	2.28E-03	3125	-1.70	4.37E-14	5502	2.10	3.74E-24
661	-0.80	5.39E-04	3127	-1.10	9.02E-07	5503	-1.30	1.33E-04
663	-1.50	4.84E-08	3129	1.80	1.71E-17	5505	-3.60	7.98E-14
664	-1.60	1.09E-12	3131	1.00	2.25E-06	5509	1.30	3.62E-07
667	-0.70	1.78E-03	3132	0.70	1.28E-03	5513	-0.80	2.56E-03
668	-1.40	1.62E-09	3133	0.90	4.30E-05	5520	1.20	1.41E-08
672	1.30	1.28E-09	3141	0.90	1.57E-04	5522	-2.10	1.86E-18
678	0.80	1.15E-04	3142	1.20	4.37E-09	5525	-0.90	2.22E-03

681	1.10	2.49E-07	3143	-1.70	1.61E-11	5527	1.20	2.02E-09
683	-0.60	6.93E-03	3144	-1.30	6.27E-09	5529	-0.80	2.17E-04
688	0.70	5.27E-04	3145	-1.30	5.89E-09	5535	0.70	7.68E-03
690	-2.50	8.29E-18	3149	0.80	4.50E-04	5536	-1.10	3.01E-07
693	1.70	4.87E-08	3150	-0.70	1.01E-03	5537	-0.80	1.04E-04
696	-0.60	2.55E-03	3153	-1.30	3.87E-08	5539	-0.90	1.36E-03
703	1.20	2.18E-08	3154	1.20	7.18E-07	5546	-1.20	1.44E-07
707	0.60	1.39E-03	3158	-1.30	2.40E-09	5551	1.00	3.65E-05
708	1.60	1.72E-04	3165	-2.10	2.62E-13	5552	-0.80	3.02E-04
718	-2.60	1.08E-23	3166	-1.20	2.44E-08	5555	-1.00	2.49E-03
724	-1.50	2.27E-07	3167	-1.80	4.44E-08	5557	-1.10	1.19E-06
730	-1.80	7.61E-11	3168	1.40	6.73E-12	5558	-1.10	9.12E-07
735	0.90	7.82E-05	3172	-1.10	3.82E-03	5563	-0.60	1.57E-03
736	1.20	3.04E-08	3176	1.40	5.67E-11	5565	0.60	6.91E-03
741	2.10	1.11E-05	3177	-1.80	1.21E-08	5570	1.60	8.75E-21
742	2.10	7.00E-06	3179	-1.10	4.10E-05	5571	1.70	6.10E-07
261								
746	-1.70	3.00E-03	3181	-1.20	2.41E-05	5572	0.90	5.86E-05
749	-1.10	8.99E-06	3182	-0.60	9.10E-03	5574	-1.40	2.64E-09
753	-0.80	3.00E-04	3183	-1.30	3.55E-08	5575	0.80	5.38E-04
760	-3.40	1.86E-06	3184	2.00	3.37E-21	5576	1.70	1.07E-09
761	1.30	2.82E-05	3188	-1.20	2.67E-06	5578	1.30	1.22E-07
762	1.50	5.38E-07	3189	-1.70	7.79E-16	5580	-2.20	5.17E-22
765	-1.90	3.13E-04	3190	2.10	1.03E-16	5583	-1.50	1.23E-03
766	1.90	1.50E-17	3191	-0.80	1.45E-03	5588	0.90	1.51E-04
769	-1.60	1.60E-14	3192	-0.80	1.39E-03	5590	1.70	2.11E-15
772	-1.00	6.21E-05	3193	1.60	2.91E-05	5592	1.20	1.47E-08
774	-1.10	3.28E-03	3194	1.60	2.30E-05	5593	-1.60	7.57E-08
776	1.30	8.01E-10	3196	-0.90	1.68E-03	5596	-1.30	1.31E-07
777	-1.40	2.65E-06	3199	-0.90	6.15E-04	5597	-1.30	1.41E-07
778	1.00	6.45E-04	3210	0.90	4.16E-06	5601	-0.90	2.56E-05
779	-3.40	4.88E-21	3213	-2.50	5.98E-06	5602	-1.40	2.38E-10
781	1.30	3.72E-07	3217	-1.10	2.24E-05	5605	-3.00	1.09E-13
782	-0.90	1.39E-03	3218	-1.90	2.31E-13	5606	-2.70	1.22E-11
784	-1.70	2.21E-06	3220	2.00	5.93E-18	5608	-3.00	4.50E-45
788	-1.20	3.57E-03	3227	-1.40	4.96E-05	5614	-1.20	8.73E-05
790	0.90	1.35E-04	3230	1.50	2.95E-04	5619	1.60	6.20E-14
793	2.20	1.52E-18	3235	-1.10	1.50E-05	5623	1.90	1.51E-15
794	1.80	2.21E-10	3239	-1.10	2.27E-03	5624	-0.80	5.09E-03
795	1.40	1.35E-09	3240	-1.10	2.41E-03	5630	1.20	6.62E-06

799	1.80	8.63E-07	3241	-2.40	1.19E-13	5632	0.80	1.77E-04
801	-2.40	1.22E-08	3245	1.20	3.44E-07	5635	-0.60	9.91E-03
808	-1.70	3.72E-11	3248	-2.00	3.59E-06	5637	1.00	1.20E-04
811	1.60	6.05E-05	3254	-0.90	3.14E-03	5638	1.50	2.37E-10
812	1.90	4.67E-17	3257	0.60	4.19E-03	5639	-1.10	2.03E-07
818	2.00	5.62E-07	3258	1.40	3.55E-10	5648	-1.10	3.50E-04
825	-1.70	1.14E-03	3263	1.30	1.58E-09	5651	-2.10	1.45E-03
826	-1.90	5.45E-04	3266	0.60	4.93E-03	5658	1.60	1.72E-05
827	0.60	8.35E-03	3272	2.00	1.51E-12	5664	-1.40	1.86E-03
829	2.00	1.83E-15	3276	-0.50	6.66E-03	5668	-1.70	3.37E-10
833	-1.90	4.67E-04	3281	-1.30	1.15E-04	5670	1.20	2.94E-07
837	-1.40	2.25E-06	3286	1.30	1.32E-09	5674	-3.30	4.17E-28
840	-3.50	3.15E-24	3289	-1.10	6.38E-03	5677	1.80	2.39E-18
842	-1.40	2.55E-08	3302	1.10	2.70E-06	5679	-0.90	1.68E-04
844	1.10	2.38E-07	3303	1.10	2.82E-06	5682	1.10	6.46E-07
846	-2.40	2.81E-13	3308	-1.30	6.63E-04	5684	2.00	2.17E-07
847	0.90	3.29E-04	3310	1.00	2.82E-06	5687	0.90	1.50E-03
854	-1.50	4.65E-09	3312	-1.70	1.04E-11	5688	-1.60	4.10E-06
858	-1.20	1.82E-07	3313	-1.60	2.54E-11	5691	1.80	1.45E-14
860	0.90	1.24E-03	3316	0.90	1.39E-03	5695	1.40	2.63E-04
864	1.00	2.07E-06	3317	2.10	2.27E-25	5699	-1.10	8.76E-03
865	1.80	7.20E-13	3318	1.10	2.15E-05	5701	0.80	2.34E-03
868	-1.20	2.34E-05	3321	1.30	5.59E-10	5703	2.00	3.68E-23
869	1.00	4.84E-06	3322	-2.30	8.97E-18	5704	1.70	2.33E-18
870	1.90	1.84E-18	3325	-1.30	7.26E-03	5705	1.20	1.32E-08
873	-0.80	2.37E-03	3327	-2.30	6.41E-09	5707	-1.30	7.10E-07
875	-1.80	7.15E-08	3329	1.10	3.66E-03	5708	-2.30	4.51E-07
876	-0.90	1.41E-05	3340	1.00	2.32E-06	5710	1.00	4.58E-04
879	-0.90	1.17E-03	3341	-1.70	1.86E-10	5711	-1.50	1.33E-09
882	-1.20	1.52E-06	3343	-0.70	7.80E-05	5713	1.30	8.71E-11
886	0.70	3.85E-03	3344	-0.90	3.67E-05	5715	-2.00	3.48E-06
898	-1.10	7.14E-05	3353	1.20	5.15E-08	5737	-2.20	7.32E-12
900	1.10	3.82E-08	3359	-1.40	9.64E-10	5739	0.70	3.74E-05
901	-1.40	1.23E-09	3367	1.20	8.48E-06	5741	-1.60	5.84E-14
906	2.00	4.40E-07	3368	-0.90	5.25E-03	5742	-1.60	1.77E-14
912	0.80	7.68E-03	3371	2.10	1.17E-26	5746	0.80	1.35E-04
919	2.10	8.11E-10	3374	-0.90	4.28E-03	5752	1.10	1.44E-06
922	1.50	1.08E-06	3376	0.60	3.66E-03	5753	-2.40	5.47E-09
923	1.50	1.39E-06	3379	-1.70	1.33E-03	5754	-2.00	3.57E-21
928	1.60	1.22E-14	3385	0.70	7.37E-04	5755	-1.60	3.41E-04

262								
934	-1.50	2.55E-12	3390	1.60	1.57E-07	5756	2.00	9.95E-18
936	-0.60	8.87E-03	3391	1.40	2.16E-14	5761	1.00	3.05E-06
937	-2.20	1.15E-04	3392	2.10	3.87E-16	5762	1.00	2.96E-06
939	1.50	5.51E-12	3394	1.30	8.34E-07	5763	2.00	1.17E-06
942	-1.80	1.53E-03	3395	2.30	2.81E-19	5768	-1.10	1.22E-05
944	-1.30	1.70E-04	3396	-1.90	1.32E-12	5772	2.00	3.92E-06
945	1.10	1.41E-07	3407	1.10	1.22E-07	5774	-3.00	1.67E-05
949	-2.90	1.40E-32	3408	-0.80	6.87E-04	5775	0.70	1.33E-03
951	-1.10	9.31E-04	3415	1.00	8.42E-03	5777	2.10	3.02E-10
954	2.20	1.46E-25	3416	1.20	7.27E-09	5781	0.90	3.44E-04
957	1.20	4.28E-06	3417	1.40	3.34E-12	5784	-1.10	6.27E-05
958	1.20	4.00E-06	3418	1.30	1.99E-09	5785	-3.80	2.80E-19
960	-1.20	2.00E-08	3420	2.00	5.23E-19	5788	-1.70	1.62E-09
961	1.70	1.24E-04	3423	1.10	2.41E-07	5791	-1.30	2.54E-09
962	2.10	1.02E-16	3428	-0.80	5.93E-05	5796	-1.10	5.69E-07
963	-3.10	9.47E-12	3431	1.60	5.41E-04	5798	-1.50	2.36E-09
964	1.90	2.34E-12	3432	1.60	5.50E-04	5800	-1.60	2.43E-13
979	2.10	2.67E-24	3438	-1.00	2.48E-10	5803	-1.60	3.77E-04
982	1.20	2.29E-06	3439	-1.80	8.77E-08	5804	-1.40	1.99E-04
983	-1.90	1.69E-07	3441	0.90	5.13E-03	5806	-1.70	4.25E-06
984	1.50	1.70E-11	3447	0.60	2.19E-03	5808	1.30	7.76E-04
989	0.90	1.01E-04	3448	1.20	4.85E-06	5815	-1.20	3.87E-04
993	1.00	1.26E-06	3457	-1.20	2.30E-04	5816	-2.50	2.35E-06
994	-1.60	2.73E-13	3466	1.30	1.49E-10	5819	-1.60	3.40E-09
998	1.00	2.66E-06	3467	2.00	9.93E-22	5821	-2.30	1.44E-22
1003	0.80	1.79E-03	3468	1.30	9.08E-10	5822	-1.00	5.85E-03
1004	-1.10	2.34E-04	3479	-1.90	2.08E-06	5823	-2.50	4.09E-09
1006	-2.30	7.62E-09	3482	-1.00	2.12E-05	5824	-2.60	1.78E-09
1009	-1.30	2.37E-08	3483	1.10	2.10E-04	5825	-2.50	7.75E-14
1010	-1.20	2.32E-05	3485	-2.60	9.37E-24	5826	1.00	1.52E-03
1012	1.70	1.07E-11	3489	1.20	7.27E-08	5828	-1.50	2.22E-07
1015	-1.00	1.01E-05	3490	1.70	2.14E-15	5830	-1.90	1.39E-04
1016	-1.90	1.69E-18	3491	2.40	2.46E-33	5831	-0.70	5.28E-03
1021	0.90	4.46E-05	3492	0.90	6.47E-05	5835	1.40	6.79E-09
1031	-1.00	3.75E-03	3498	0.90	1.72E-04	5838	-2.40	1.58E-29
1033	1.20	8.16E-09	3503	-1.10	1.66E-03	5840	0.80	2.81E-04
1035	-1.50	1.68E-08	3506	-1.90	4.80E-09	5841	1.20	1.12E-07
1037	-1.50	3.62E-07	3510	-1.30	2.21E-07	5846	1.10	2.69E-07
1038	-0.80	1.94E-04	3511	1.50	2.60E-08	5852	-1.30	1.06E-03

1039	-0.80	1.34E-03	3514	-2.40	4.24E-20	5856	1.70	1.70E-16
1042	1.00	1.63E-05	3515	1.70	1.84E-04	5868	1.80	4.08E-20
1049	-0.80	1.87E-04	3518	-3.30	7.43E-09	5870	1.00	2.12E-06
1050	-0.90	2.42E-03	3519	-0.80	1.36E-03	5871	0.90	8.35E-05
1054	-1.10	7.63E-04	3521	-1.20	3.96E-04	5872	1.20	3.94E-07
1056	0.80	5.81E-04	3523	1.50	1.92E-12	5874	0.80	1.55E-04
1057	1.30	1.21E-10	3527	0.90	1.75E-03	5875	-2.00	1.11E-14
1058	0.70	9.34E-03	3530	-0.90	1.03E-04	5877	1.40	4.32E-11
1062	-0.90	9.17E-03	3533	-0.90	1.33E-03	5880	0.90	2.06E-05
1063	1.30	8.09E-11	3538	-1.00	4.78E-05	5883	-1.20	1.87E-05
1065	-1.10	7.87E-07	3539	1.50	2.15E-12	5884	-2.00	2.92E-17
1068	-1.20	9.90E-04	3540	-1.00	1.75E-06	5887	-3.30	1.97E-18
1069	-1.20	9.28E-04	3541	1.10	9.71E-07	5890	-1.00	1.87E-04
1072	1.20	3.24E-07	3544	-1.00	1.10E-03	5896	1.00	5.10E-06
1074	1.70	1.05E-09	3546	-1.00	4.51E-03	5897	-1.90	2.56E-16
1075	-1.10	1.01E-03	3548	-3.60	3.39E-11	5900	-2.30	3.60E-05
1084	1.50	4.80E-11	3550	1.10	1.05E-06	5901	-1.70	2.02E-13
1089	-0.90	6.80E-05	3554	0.90	5.41E-10	5902	0.70	8.03E-04
1094	1.60	4.73E-14	3557	-2.20	3.30E-04	5903	1.70	2.00E-06
1097	-1.30	2.74E-10	3558	-2.40	9.86E-25	5904	1.00	3.83E-07
1098	-1.40	2.92E-09	3559	-1.40	8.45E-03	5906	1.50	1.19E-11
1100	-1.60	5.03E-09	3560	0.60	3.55E-03	5910	-1.10	4.20E-03
1104	0.70	4.18E-03	3563	-1.80	9.32E-06	5911	1.10	6.05E-03
1110	-2.20	2.37E-25	3568	1.40	1.04E-12	5914	1.90	1.20E-18
263								
1114	-1.20	2.47E-04	3569	1.30	8.82E-10	5916	0.80	6.23E-04
1115	-1.20	2.66E-04	3575	-1.80	1.04E-03	5918	-1.30	6.07E-06
1121	-1.00	2.96E-05	3578	1.20	8.27E-04	5921	-1.70	3.42E-07
1128	-1.00	1.32E-03	3579	1.00	1.23E-08	5922	-1.70	8.50E-07
1129	-1.00	1.03E-03	3582	-0.90	1.23E-04	5923	1.20	2.65E-08
1137	0.90	3.25E-03	3586	0.70	1.64E-03	5924	-1.10	5.41E-06
1138	-0.90	1.58E-03	3587	1.20	5.21E-07	5927	0.80	2.04E-04
1140	2.30	2.48E-29	3588	-0.80	5.02E-04	5929	-1.20	1.44E-05
1141	0.80	4.05E-04	3591	1.60	5.12E-06	5930	-2.50	1.81E-21
1142	-0.90	4.39E-04	3593	-2.10	1.31E-18	5931	1.20	6.81E-06
1144	-0.70	5.99E-03	3594	1.60	2.72E-10	5933	-1.30	2.89E-04
1147	1.10	4.91E-07	3595	-1.30	1.96E-03	5942	1.00	1.57E-04
1148	1.00	2.88E-06	3596	-1.30	3.61E-08	5948	-0.70	2.76E-04
1151	0.90	1.06E-04	3599	1.00	2.52E-05	5952	-1.00	1.16E-05
1152	1.20	3.84E-06	3601	-1.60	1.25E-09	5953	-1.20	6.59E-07

8383	1.28	2.14E-07	10866	0.69	8.58E-03
8384	-2.17	5.22E-05	10872	-2.57	9.54E-20
8386	0.68	1.22E-03	10875	-0.82	6.30E-03
8387	0.82	1.55E-03	10877	1.15	6.05E-04
8388	0.71	5.31E-04	10883	-0.60	8.15E-03
8389	-1.75	6.53E-03	10888	-1.99	2.17E-13
8391	-1.75	9.03E-16	10889	-0.71	4.60E-04
8395	-1.34	4.51E-10	10891	-1.22	1.85E-06
8397	1.17	1.28E-07	10892	0.70	6.44E-04
8398	1.42	6.62E-11	10897	1.14	1.44E-03
8402	-1.93	2.24E-10	10900	-1.17	4.17E-07
8405	0.55	5.93E-03	10908	1.34	5.63E-10
8406	0.71	1.67E-03	10911	-1.51	4.69E-12
8417	0.87	7.89E-05	10913	-1.34	3.88E-10
8418	1.56	4.08E-08	10917	-1.71	2.73E-09
8420	1.40	5.81E-11	10923	-2.13	1.38E-08
8421	-2.92	2.62E-26	10924	1.54	3.16E-12
8423	-1.28	7.71E-08	10926	-3.07	1.95E-09
8425	-1.56	1.42E-12	10934	-1.41	4.20E-07
8426	-1.07	3.29E-05	10940	-0.83	1.25E-04
8433	-1.63	1.44E-10	10942	0.94	5.97E-05
8434	-2.30	1.35E-04	10943	-1.49	1.58E-05
8436	-1.06	2.23E-05	10947	-1.40	1.39E-05
8446	-1.40	2.31E-10	10948	-0.99	3.05E-05
8451	-1.85	7.90E-13	10950	1.53	1.68E-12
8454	-2.39	4.73E-25	10952	1.12	7.71E-07
8457	1.23	2.27E-04	10954	1.28	7.06E-04
8460	-1.35	9.51E-07	10965	1.64	7.86E-14
8464	0.78	3.38E-04	10977	-1.80	2.39E-12
8466	2.13	4.33E-25	10980	1.95	6.08E-22
8467	1.71	1.48E-17	10985	-1.91	1.98E-18
8468	0.73	8.88E-03	10987	-1.29	1.73E-04
8473	0.63	2.56E-03	10991	1.69	1.59E-13
8476	-0.79	1.31E-04	10992	-1.45	7.74E-09
8477	-0.79	1.20E-04	10994	0.73	1.34E-03
8478	-0.77	1.95E-04	10995	-1.04	2.40E-04
8484	-1.84	1.71E-08	11003	-2.00	4.63E-05
8485	1.00	2.20E-06	11007	-1.29	4.92E-06
8486	0.89	7.79E-05	11012	-1.71	7.72E-13
8488	0.92	1.88E-08	11013	-1.52	3.53E-09

8489	-0.99	6.09E-04	11016	-0.94	5.34E-04
8490	-1.43	4.09E-03	11019	0.92	8.35E-05
8501	2.26	3.73E-12	11029	1.64	2.29E-12
8503	-1.38	3.45E-05	11032	0.73	1.30E-03
8508	-1.08	2.64E-07	11036	-0.74	8.68E-03
8520	-1.32	9.05E-03	11047	-1.10	2.01E-06
8521	0.74	2.95E-04	11053	-0.77	2.81E-03
8529	-2.07	4.44E-06	11065	0.67	8.79E-04
8530	0.96	2.42E-03	11075	1.22	8.96E-04
8532	-1.18	1.97E-05	11076	-1.22	7.30E-06
8537	-0.73	8.74E-04	11082	-0.96	4.59E-05
8539	0.71	9.65E-04	11085	-1.21	1.12E-07
8540	1.16	1.15E-07	11087	0.75	2.56E-04
8544	-0.67	8.75E-03	11088	2.12	3.06E-27
8546	0.74	8.11E-04	11090	1.32	3.30E-05
8547	-1.52	3.41E-04	11092	1.06	3.46E-06
8548	-1.85	4.76E-04	11096	2.29	7.18E-11
8550	-1.72	6.59E-13	11097	-2.03	3.34E-18
8551	0.73	3.36E-03	11101	1.86	1.71E-17
8557	-2.78	3.95E-11	11102	1.49	5.23E-12
8559	1.73	1.39E-17	11103	1.29	1.34E-09
8560	1.50	3.86E-12	11107	-0.80	3.78E-04
8561	1.09	5.84E-05	11108	-0.83	1.72E-04
8562	-0.85	8.20E-05	11115	-1.56	1.76E-05
8563	1.34	4.19E-07	11127	-1.32	1.38E-08
8566	0.68	1.59E-03	11130	-0.83	2.13E-03
8569	-1.53	5.68E-04	11139	-1.38	1.83E-10
8576	-2.48	1.47E-21	11140	0.70	7.20E-03
8577	1.05	5.46E-07	11142	0.58	7.82E-03
8578	1.92	1.15E-06	11149	0.87	9.31E-05
8579	-1.94	5.33E-09	11151	1.93	1.29E-09
8580	-1.03	6.47E-04	11153	-1.51	2.39E-10
8585	0.98	3.24E-03	11157	-1.04	5.99E-05
8589	-1.61	1.89E-07	11159	2.05	1.10E-23
8591	-0.87	6.10E-04	11166	-1.87	1.13E-18
8592	-1.01	6.52E-04	11172	-2.02	1.73E-21
8593	-1.27	1.30E-07	11173	1.76	7.27E-17
8596	-1.47	1.00E-06	11174	0.94	5.05E-05
8598	-0.96	1.81E-04	11177	1.63	1.38E-05

8600	0.74	1.13E-03	11179	-0.75	6.74E-04
8601	-1.60	3.48E-10	11181	-2.66	2.82E-10
8604	-0.94	1.04E-05	11182	0.69	1.07E-03
8607	-0.78	3.78E-04	11184	2.01	5.84E-21
8608	-1.85	7.58E-05	11186	-0.63	4.18E-03
8609	-1.10	2.69E-04	11189	0.91	2.21E-05
8610	-0.80	7.71E-05	11191	-1.51	1.24E-12
8611	-1.86	5.03E-20	11196	1.89	2.03E-21
8613	-1.85	7.14E-13	11201	-1.28	6.17E-05
8614	-1.22	2.55E-06	11202	-0.86	9.13E-05
8617	2.15	1.47E-11	11206	-1.71	1.54E-13
8624	1.41	1.12E-10	11210	1.51	4.52E-06
8627	-1.41	1.24E-07	11213	-1.12	2.30E-03
8628	2.11	7.04E-09	11219	-1.48	5.27E-09
8630	1.08	9.71E-04	11224	0.87	2.75E-04
8636	1.43	2.55E-09	11231	-0.99	1.55E-03
8646	1.28	1.25E-06	11236	-1.67	6.06E-06
8647	-1.49	1.54E-07	11239	-1.24	4.35E-05
8650	-1.90	2.57E-07	11241	0.83	1.52E-03
8651	-1.25	6.51E-05	11244	1.47	2.30E-12
8654	0.89	1.53E-03	11249	-1.08	4.06E-07
8659	-1.20	8.16E-04	11251	1.56	3.10E-12
8662	-3.27	1.28E-06	11254	-1.20	6.45E-13
8664	1.42	1.44E-07	11280	1.62	1.13E-05
8667	-1.87	2.06E-03	11284	-1.19	1.89E-06
8668	-1.35	2.53E-06	11288	-1.17	1.21E-04
8673	0.59	8.57E-03	11290	-1.26	1.26E-07
8674	-0.55	6.09E-04	11291	-0.71	8.18E-03
8675	-1.34	5.31E-08	11292	0.94	2.10E-04
8676	-1.78	3.19E-15	11294	-2.07	4.35E-11
8679	0.76	1.88E-04	11302	1.30	9.52E-08
8683	-2.63	1.56E-16	11303	-1.11	6.55E-07
8686	1.04	3.52E-07	11305	1.08	9.77E-06
8688	-0.79	9.12E-04	11306	-1.98	2.18E-21
8689	0.62	7.36E-03	11311	-1.28	1.88E-08
8690	-1.67	8.31E-09	11312	0.91	6.48E-05
8692	-1.43	2.70E-03	11314	-0.96	8.86E-06
8693	-4.04	4.19E-35	11316	-1.55	6.38E-09
8694	0.83	5.49E-04	11321	-2.02	1.28E-16

8699	1.59	1.22E-14	11323	-1.03	1.87E-03
8700	1.65	1.26E-10	11337	1.14	1.29E-08
8704	-1.97	8.51E-08	11340	2.20	6.93E-25
8705	-1.38	2.51E-04	11341	1.39	4.67E-05
8707	-2.13	9.73E-07	11343	1.17	8.06E-08
8708	-2.11	1.60E-06	11344	1.34	1.17E-10
8710	-3.26	9.87E-20	11348	-1.79	2.69E-06
8712	-0.72	2.77E-03	11352	1.18	1.15E-06
8715	-1.55	2.96E-12	11355	-1.97	3.64E-08
8721	0.52	3.67E-03	11356	-0.92	1.98E-03
8724	1.82	1.25E-13	11359	-1.75	2.10E-16
8726	-0.60	9.62E-03	11360	1.33	1.17E-08
8728	-3.79	2.26E-38	11362	-1.91	5.06E-04
8729	-2.03	2.25E-06	11369	-0.92	1.67E-04
8731	0.66	2.41E-03	11374	-1.08	5.48E-07
8732	0.69	8.57E-04	11382	-1.72	8.80E-13
8733	-1.89	1.51E-12	11384	-1.47	2.07E-10
8735	0.83	1.19E-04	11386	-2.61	1.68E-11
8736	1.26	2.96E-04	11390	-1.49	1.32E-08
8740	1.11	3.89E-10	11391	0.69	5.10E-03
8744	-1.87	1.36E-12	11396	1.09	4.49E-07
8747	1.09	5.24E-07	11400	-0.76	4.70E-03
8749	0.82	8.16E-04	11405	0.78	8.59E-03
8751	-0.56	4.91E-03	11408	-1.76	2.89E-11
8752	1.12	3.48E-04	11410	-0.95	1.99E-05
8757	-1.74	2.36E-12	11412	0.69	2.25E-03
8759	-2.07	5.67E-05	11413	2.22	1.08E-06
8761	0.93	3.86E-04	11415	-3.11	1.82E-08
8762	-0.67	2.53E-03	11417	1.08	1.99E-06
8764	-1.87	4.66E-05	11422	-1.29	1.97E-05
8765	-0.75	1.63E-03	11425	-0.87	2.30E-04
8766	0.89	2.41E-05	11427	-1.15	5.47E-04
8767	-1.25	2.00E-05	11433	0.74	6.16E-03
8771	0.70	7.90E-03	11435	-0.93	4.85E-03
8773	-1.70	2.76E-12	11437	0.80	2.31E-03
8774	0.73	5.93E-04	11439	1.14	1.64E-03
8780	0.88	1.64E-03	11440	-1.27	1.91E-03
8782	0.61	3.45E-03	11443	-1.04	9.57E-05
8785	-1.76	2.40E-03	11444	0.84	2.19E-04
8789	-1.65	9.20E-04	11446	1.00	3.38E-05

8792	-1.89	1.52E-07	11450	-1.18	1.67E-06
8793	1.07	2.78E-05	11462	2.22	3.68E-17
8799	0.95	2.23E-04	11468	-1.81	4.22E-05
8800	1.71	9.38E-10	11471	1.66	7.90E-15
8801	-1.82	9.70E-09	11480	-1.05	6.13E-06
8803	1.20	7.79E-03	11485	-2.35	2.16E-08
8805	-1.45	1.79E-11	11486	-0.81	1.67E-04
8808	1.12	2.80E-07	11488	1.49	4.86E-07
8810	-1.27	2.14E-09	11489	1.84	8.07E-08
8812	1.00	7.56E-03	11492	-1.36	1.34E-09
8814	-1.26	6.59E-06	11495	0.88	7.51E-06
8820	-0.92	9.47E-05	11496	-0.92	4.90E-05
8822	-1.41	5.21E-10	11497	1.78	9.72E-15
8824	-2.20	2.40E-09	11499	1.40	4.81E-10
8825	-0.92	2.69E-05	11500	0.98	6.28E-03
8832	-2.20	1.41E-06	11501	0.58	6.94E-03
8834	0.90	1.38E-03	11520	-2.28	3.14E-07
8838	-1.40	1.73E-05	11536	-0.68	5.17E-03
8839	-2.40	2.39E-08	11547	1.45	1.39E-11
8841	-1.64	2.87E-09	11549	-1.96	3.99E-08
8846	-1.90	1.62E-07	11551	-0.65	3.51E-03
8847	-1.56	4.19E-12	11553	2.00	3.79E-23
8848	-2.85	1.53E-33	11555	-1.38	3.26E-08
8849	-3.26	3.62E-15	11556	2.09	5.76E-20
8851	-1.34	3.07E-07	11574	-2.00	6.25E-06
8854	-2.77	7.40E-07	11577	0.59	6.21E-03
8855	-0.98	4.76E-05	11581	-0.60	5.62E-03
8857	1.56	1.03E-13	11582	0.59	1.08E-03
8860	-1.49	8.52E-03	11591	0.72	8.29E-04
8861	-1.16	1.84E-06	11593	0.99	1.37E-04
8863	-1.09	1.10E-06	11594	1.67	5.24E-16
8865	-1.96	1.66E-13	11600	-1.14	2.31E-07
8867	1.17	9.03E-08	11601	-0.90	1.85E-05
8874	-0.75	8.26E-04	11602	0.95	8.96E-05
8875	0.91	2.08E-05	11603	1.59	2.53E-09
8876	-1.01	5.36E-04	11605	-2.34	3.90E-24
8877	-1.03	2.56E-05	11607	1.41	4.23E-09
8883	-2.50	8.35E-06	11608	-0.51	6.48E-03
8888	0.71	4.70E-04	11610	-0.62	5.01E-03

8893	1.50	9.26E-14	11618	1.82	1.82E-17
8898	-1.57	5.62E-14	11619	1.02	1.23E-06
8899	-1.32	8.65E-10	11622	0.58	5.26E-03
8908	-1.98	2.00E-21	11628	-0.66	2.89E-03
8909	-1.82	1.19E-05	11631	0.64	2.17E-03
8910	2.01	7.25E-22	11636	0.70	1.05E-03
8911	1.22	1.57E-08	11639	-1.20	4.50E-06
8914	1.05	1.24E-04	11641	1.04	4.22E-05
8915	-1.05	2.85E-05	11647	-2.56	2.30E-06
8916	-1.05	3.04E-05	11649	-0.83	8.98E-05
8919	-1.50	2.54E-08	11652	-1.08	2.82E-03
8921	1.06	2.44E-04	11659	-1.50	2.45E-12
8922	-1.54	7.33E-13	11666	-1.12	3.72E-03
8927	-0.94	5.94E-05	11673	-0.85	4.20E-04
8928	-1.74	2.98E-10	11680	-0.89	2.19E-05
8930	1.15	5.54E-05	11684	1.40	2.00E-10
8941	-1.45	6.62E-04	11685	-0.86	3.00E-03
8952	0.91	8.47E-05	11686	1.17	4.45E-08
8954	1.82	1.29E-18	11692	-1.85	1.05E-04
8955	1.21	1.64E-09	11701	-2.20	2.69E-18
8957	1.34	5.93E-09	11702	0.66	2.33E-03
8959	-1.72	1.26E-08	11705	1.33	1.40E-08
8960	-1.81	8.27E-15	11714	-0.86	8.76E-04
8963	-2.26	7.67E-10	11717	-0.67	1.52E-03
8965	-0.78	2.95E-04	11719	-1.29	3.23E-06
8967	1.35	1.18E-04	11722	-1.50	3.37E-12
8968	1.16	7.95E-05	11724	-1.17	3.90E-07
8970	-0.96	2.54E-06	11726	1.50	4.25E-13
8971	0.70	2.51E-05	11728	-2.03	4.66E-10
8977	1.14	1.48E-06	11731	0.57	9.71E-03
8980	-1.07	7.67E-06	11735	-1.10	2.47E-03
8981	-2.93	1.07E-34	11741	-0.73	9.40E-03
8985	-4.39	3.90E-11	11754	-0.97	2.91E-03
8987	-1.49	7.21E-10	11756	1.12	1.33E-07
8992	0.84	2.78E-03	11757	-1.62	3.69E-11
8993	0.83	3.08E-03	11758	-1.43	3.63E-05
8997	1.30	3.33E-09	11760	-0.60	7.93E-03
8999	1.36	1.43E-07	11767	-1.39	4.54E-03
9003	1.46	3.36E-12	11771	0.65	2.46E-03
9006	1.04	1.73E-06	11772	1.25	9.83E-07

9010	-1.02	1.99E-06	11776	-1.28	2.12E-08
9011	1.64	4.72E-16	11780	1.19	1.76E-07
9013	-0.64	9.46E-03	11788	-2.69	6.20E-08
9015	-1.45	1.11E-04	11799	1.22	4.95E-04
9023	-0.58	6.85E-03	11803	-1.66	6.23E-09
9026	0.84	9.68E-03	11809	-0.65	7.13E-03
9027	-1.86	3.88E-15	11815	0.62	5.25E-03
9030	0.68	1.69E-03	11818	-2.51	6.73E-13
9032	0.83	5.88E-03	11825	1.68	2.11E-14
9034	1.08	1.09E-05	11833	-1.29	3.80E-05
9040	-1.03	4.82E-06	11839	-0.98	7.67E-04
9043	-2.84	9.18E-12	11847	0.82	3.18E-04
9046	-2.82	4.12E-18	11856	0.88	4.06E-05
9049	-2.42	2.82E-06	11858	0.58	5.07E-03
9050	-2.01	2.73E-12	11861	-0.89	5.68E-03
9052	1.45	2.98E-11	11862	1.89	1.21E-07
9054	-1.19	3.66E-05	11863	-0.70	5.92E-04
9055	-1.70	4.23E-11	11866	-0.69	2.47E-03
9057	-1.54	3.62E-14	11874	1.11	7.29E-03
9059	-1.50	6.84E-06	11875	-2.70	4.35E-10
9063	-0.95	2.63E-05	11888	-3.34	2.37E-12
9064	-0.92	4.44E-05	11890	-1.56	2.53E-13
9065	1.56	2.94E-10	11895	2.06	1.94E-10
9068	1.09	1.66E-06	11896	-1.83	8.38E-16
9069	1.52	3.00E-05	11897	1.14	4.52E-07
9070	0.98	3.38E-03	11898	-2.01	2.71E-17
9081	0.91	1.44E-05	11899	-0.81	1.62E-03
9082	-1.02	2.86E-06	11900	-2.45	1.21E-13
9084	-1.63	2.76E-08	11902	-2.77	7.64E-09
9087	-1.75	2.18E-18	11908	0.98	4.41E-06
9089	-1.40	4.05E-07	11915	-0.85	2.15E-04
9092	-0.68	3.00E-03	11918	0.75	6.36E-04
9095	-2.05	1.53E-04	11929	0.73	2.22E-05
9096	-0.64	3.00E-03	11931	0.77	2.57E-04
9097	-0.92	7.77E-03	11933	-0.72	4.34E-03
9099	-1.22	1.12E-04	11935	1.24	6.98E-07
9101	1.58	1.00E-14	11936	-0.73	3.08E-04
9103	1.29	1.51E-06	11940	-1.38	3.20E-09
9107	0.63	3.19E-03	11943	1.29	3.55E-04

9108	1.25	4.73E-04	11945	0.83	2.09E-04
9110	-2.24	1.56E-06	11947	-1.29	1.96E-09
9113	-2.21	4.56E-11	11950	-0.69	2.39E-05
9120	-1.28	6.95E-03	11959	0.72	4.24E-03
9125	-2.92	1.03E-09	11961	-1.62	1.04E-13
9127	-2.06	4.10E-20	11963	0.66	1.98E-03
9129	2.24	1.96E-28	11966	0.98	1.97E-04
9130	-0.91	1.07E-04	11972	-1.62	2.38E-03
9132	-1.03	2.89E-07	11976	-1.17	5.18E-04
9136	-2.05	6.50E-04	11977	-0.96	6.71E-06
9138	1.31	5.76E-10	11982	-1.46	2.61E-04
9140	1.24	3.91E-06	11998	0.92	2.96E-03
9142	0.62	4.31E-03	11999	0.90	1.53E-04
9150	1.04	5.43E-07	12000	-1.78	3.51E-14
9152	0.81	3.26E-03	12010	1.35	4.38E-08
9155	-0.94	8.30E-04	12012	-1.43	2.57E-04
9158	1.18	6.44E-07	12013	-1.19	2.48E-07
9159	0.68	1.14E-04	12015	1.22	7.00E-05
9161	-0.76	5.16E-04	12022	-1.48	7.17E-04
9165	1.44	3.55E-23	12032	2.40	2.34E-25
9166	-1.19	1.46E-07	12036	1.22	6.42E-08
9173	1.48	3.44E-12	12043	-1.07	3.27E-06
9174	1.00	1.74E-03	12045	-3.19	6.27E-08
9178	-2.09	1.36E-08	12060	1.40	1.90E-06
9179	-2.00	4.53E-08	12063	0.61	8.47E-03
9182	-1.26	1.55E-08	12065	-1.43	2.54E-04
9183	-2.14	5.22E-27	12066	1.37	1.41E-09
9184	1.46	8.27E-12	12067	-0.98	1.23E-03
9187	-1.04	4.96E-09	12073	-2.38	2.73E-13
9191	-1.04	8.45E-06	12076	1.25	3.23E-09
9192	-1.56	3.28E-12	12086	-0.81	4.04E-04
9193	-1.63	8.60E-03	12090	1.06	5.87E-08
9194	1.40	1.29E-09	12093	-0.86	3.50E-04
9196	-0.98	2.76E-04	12110	-1.88	3.04E-04
9200	-1.07	9.77E-05	12117	1.37	2.65E-05
9201	1.29	6.83E-08	12118	-1.10	6.11E-03
9207	0.64	2.58E-03	12121	1.23	7.53E-07
9208	-1.47	6.13E-05	12126	0.74	2.43E-04
9209	0.99	5.90E-04	12130	-2.83	1.56E-05

9213	1.81	2.35E-12	12131	-1.88	1.83E-06
9219	-0.73	5.97E-04	12132	1.12	8.45E-08
9221	1.51	1.95E-06	12141	-0.53	5.22E-04
9222	1.07	1.88E-03	12147	0.73	3.95E-03
9225	1.05	2.66E-11	12154	-1.09	3.00E-07
9227	-0.74	3.23E-03	12162	-0.76	3.12E-04
9228	0.94	3.82E-06	12166	-2.30	7.43E-13
9232	-1.07	1.46E-04	12168	0.75	1.32E-03
9237	-1.63	9.03E-16	12170	-1.60	5.59E-08
9239	0.90	1.16E-03	12174	-2.28	1.15E-27
9241	-1.09	3.93E-06	12175	0.55	8.66E-03
9244	-0.69	1.63E-03	12181	1.39	3.85E-03
9248	1.55	6.26E-12	12183	0.99	1.32E-03
9250	-1.84	1.31E-03	12186	1.68	3.85E-16
9254	0.63	6.86E-03	12187	-1.17	1.78E-07
9255	-1.48	1.17E-03	12190	-1.39	6.27E-10
9260	-1.44	1.15E-09	12194	-1.33	4.01E-04
9264	0.80	1.30E-04	12200	1.72	9.40E-15
9265	1.57	4.93E-05	12207	-1.28	6.85E-04
9266	-1.29	3.15E-06	12208	0.80	1.03E-04
9267	-0.95	3.10E-04	12210	0.83	2.67E-04
9269	-1.46	2.45E-10	12214	1.25	2.66E-07
9275	-0.66	4.87E-03	12215	-1.88	2.22E-07
9281	-2.26	3.61E-20	12219	-1.28	3.07E-09
9284	-0.70	5.07E-04	12226	-0.73	8.59E-03
9285	1.07	2.08E-06	12228	-1.85	1.11E-04
9288	-1.70	2.50E-15	12230	1.89	2.86E-10
9289	-1.76	9.85E-07	12232	2.15	1.51E-23
9290	-1.33	1.77E-09	12235	-1.93	5.37E-09
9291	1.32	3.44E-03	12240	1.12	3.13E-07
9293	-0.97	3.32E-05	12241	-3.09	1.37E-13
9294	-0.94	4.70E-05	12242	-1.59	7.71E-14
9300	1.00	2.60E-06	12245	-0.83	2.62E-04
9302	1.57	3.90E-09	12249	1.05	2.10E-06
9306	1.36	2.58E-07	12250	-0.72	3.03E-03
9307	1.12	7.28E-06	12257	-0.56	8.00E-03
9314	1.67	8.41E-11	12275	0.97	3.38E-05
9315	-1.19	1.51E-07	12280	0.56	7.37E-03
9319	1.18	1.11E-08	12284	0.72	6.07E-04
9324	-1.86	8.73E-03	12288	1.95	6.72E-19

9326	-1.48	5.81E-07	12291	2.33	9.89E-31
9327	-2.20	1.40E-08	12292	0.73	5.43E-04
9329	-1.34	5.88E-11	12293	-2.27	2.03E-09
9341	-0.75	6.66E-04	12294	-1.32	4.10E-04
9342	-1.45	2.90E-05	12295	-0.92	1.64E-03
9347	-2.47	1.89E-29	12296	0.60	5.47E-03
9348	-0.55	2.71E-04	12304	-1.70	1.41E-13
9349	-1.70	2.76E-06	12307	0.84	3.33E-03
9355	2.10	2.00E-25	12308	1.06	5.95E-06
9360	-1.47	9.18E-07	12310	1.57	4.43E-06
9367	-1.84	7.59E-08	12322	1.46	1.75E-15
9368	2.22	1.59E-27	12327	-1.34	1.47E-07
9369	1.04	6.93E-07	12329	0.79	8.00E-04
9371	-0.92	7.10E-04	12330	0.73	1.39E-03
9373	1.92	4.31E-18	12334	-0.99	2.70E-05
9376	1.41	2.83E-08	12336	2.37	1.34E-30
9378	0.61	6.81E-03	12343	-1.88	6.92E-05
9379	0.94	7.79E-04	12344	1.37	2.05E-10
9381	-0.93	1.76E-04	12356	-1.96	4.88E-12
9383	-1.73	1.65E-14	12358	-2.16	2.46E-22
9388	-2.02	1.35E-06	12362	-0.81	1.36E-03
9390	-1.67	5.60E-07	12365	-1.26	1.12E-07
9391	-1.21	5.34E-03	12368	1.70	8.64E-18
9393	0.76	2.35E-03	12371	1.06	1.24E-06
9394	-2.10	6.17E-11	12376	0.78	7.65E-04
9397	-1.54	4.22E-10	12381	-1.22	1.02E-04
9402	-2.67	7.71E-21	12393	1.44	4.38E-12
9404	-0.62	8.78E-03	12409	1.54	2.87E-14
9405	-2.21	6.24E-12	12411	1.82	3.59E-08
9406	-1.06	6.30E-12	12412	-0.65	2.32E-03
9413	-1.07	2.64E-03	12415	1.35	1.23E-04
9421	-1.40	1.59E-05	12423	-1.49	2.78E-10
9423	-1.28	2.62E-07	12433	-0.72	5.00E-04
9424	-1.49	7.95E-08	12443	1.22	3.21E-07
9430	-0.61	4.16E-03	12444	-2.12	1.09E-06
9434	-0.97	1.43E-05	12454	0.70	1.84E-03
9437	-3.22	2.41E-11	12456	0.55	7.46E-03
9445	-1.18	5.78E-05	12458	1.13	8.19E-08
9447	-1.91	1.06E-05	12462	1.48	1.14E-12

9448	-1.18	2.67E-07	12463	-0.85	8.96E-05
9449	1.35	1.24E-05	12465	-2.67	1.47E-11
9452	-2.16	2.38E-09	12466	-1.38	3.09E-05
9453	0.98	2.63E-05	12469	-2.14	1.44E-10
9458	-1.83	1.60E-03	12477	-1.96	3.98E-08
9459	-1.19	5.45E-07	12482	-1.48	6.13E-06
9460	0.98	5.14E-05	12483	0.92	7.78E-05
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9468	-0.72	4.08E-03	12489	-2.03	6.32E-08
9472	-0.83	5.54E-03	12491	1.14	6.98E-08
9475	-1.52	7.44E-03	12493	-1.18	3.03E-08
9476	-0.96	2.89E-05	12496	0.80	1.67E-03
9477	1.02	1.80E-05	12498	1.74	5.15E-18
9478	1.34	1.51E-05	12506	0.87	2.67E-03
9483	-1.34	1.07E-05	12509	-2.74	1.67E-18
9485	-0.97	1.42E-04	12510	-1.51	7.71E-08
9486	-1.72	1.14E-04	12518	0.89	3.00E-05
9491	-1.97	1.53E-05	12519	-1.17	1.35E-06
9493	-0.97	5.38E-06	12521	2.24	1.77E-25
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9498	-1.04	7.76E-06	12524	1.80	3.29E-17
9500	-1.11	2.07E-05	12529	1.15	6.79E-08
9507	1.23	6.35E-09	12534	-0.86	4.86E-03
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9521	-0.79	1.39E-04	12542	-0.77	5.24E-04
9529	0.75	3.75E-04	12544	1.80	2.18E-15
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9531	-2.08	1.75E-20	12547	-1.08	1.33E-06
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9542	-2.17	3.34E-04	12565	1.13	1.09E-03
9544	1.06	5.54E-12	12572	0.83	1.68E-04
9548	0.66	5.13E-04	12577	-1.42	1.55E-10
9552	0.62	4.25E-03	12584	-1.22	3.59E-05
9553	-0.62	6.24E-03	12589	-0.82	1.30E-04
9557	-1.48	2.31E-10	12590	-2.68	1.29E-11

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14414	0.82	3.14E-08	15012	-4.29	3.55E-10
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14539	-1.36	1.61E-05	15188	-0.81	3.43E-03
14542	-1.82	3.35E-03	15191	-0.75	1.57E-03
14544	0.85	3.17E-03	15192	-1.73	6.14E-06
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14586	-1.79	6.95E-09	15244	-2.79	1.89E-11
14588	-1.01	3.69E-03	15248	-0.93	7.49E-03
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14972	1.36	1.46E-11	11176	0.35	5.00E-02
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9656	-0.70	3.70E-03	4787	-1.20	5.97E-04
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9670	1.04	1.61E-06	7208	-1.43	6.50E-07
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12610	-2.82	2.25E-07	7213	0.67	4.77E-04
12613	-1.70	2.82E-09	7218	-1.79	3.69E-17
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12630	1.29	6.32E-07	12602	-0.85	2.37E-04
12636	-0.94	1.17E-03	12605	-0.94	6.65E-06

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12656	-2.81	5.18E-25
12657	1.36	1.19E-09
12658	-0.90	2.48E-04
12662	0.85	4.29E-03
12667	1.42	2.97E-05

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233	-0.70	2.27E-04	2756	-0.70	2.59E-05	5231	0.60	1.10E-03
248	0.60	7.67E-03	2760	-0.60	4.86E-04	5234	0.50	5.89E-03
251	0.90	4.56E-08	2761	-0.70	3.45E-04	5239	-0.70	1.53E-03
257	0.70	2.10E-03	2769	-0.60	9.20E-05	5247	0.60	1.70E-04
259	0.90	1.80E-03	2778	0.60	4.58E-04	5253	0.80	1.39E-06
262	-0.40	8.78E-03	2781	1.20	6.66E-11	5258	1.40	7.32E-09
263	-1.20	8.24E-05	2782	0.50	8.25E-06	5261	-0.60	7.54E-04
287	0.60	2.43E-03	2787	0.70	2.39E-04	5273	-1.40	2.53E-14
288	0.60	2.26E-03	2801	-0.50	5.70E-03	5274	-1.40	3.31E-14
290	-0.50	2.98E-03	2816	-1.40	5.68E-03	5275	-1.00	8.75E-08
301	-0.60	6.45E-04	2820	-1.30	7.28E-07	5283	0.50	5.11E-03
305	0.70	1.73E-04	2821	-0.70	2.53E-05	5285	-1.00	2.17E-07
307	0.70	1.02E-05	2822	-0.80	2.90E-05	5291	1.10	2.28E-04
313	0.90	2.36E-05	2828	0.50	9.64E-03	5294	1.10	3.17E-06
318	-0.50	4.73E-03	2829	-0.80	8.75E-04	5300	0.80	6.45E-03
321	1.20	5.74E-07	2830	-0.80	1.14E-03	5302	-1.30	1.67E-14
323	-0.90	1.00E-03	2838	-1.10	4.57E-07	5308	-0.70	2.67E-05
331	-0.90	2.97E-07	2841	-1.10	1.83E-03	5315	-0.70	2.47E-03
333	0.70	3.26E-06	2843	1.20	2.00E-12	5316	1.00	6.54E-06
335	-0.80	1.60E-03	2848	-1.00	6.13E-10	5321	0.50	2.78E-03
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336	-0.70	1.20E-04	2857	-0.70	7.90E-03	5330	0.80	1.27E-05
337	0.70	3.14E-05	2859	-0.60	2.22E-04	5344	0.60	1.11E-04
345	-0.90	3.75E-04	2872	0.90	6.02E-08	5345	1.10	1.70E-11
352	0.80	5.78E-03	2874	-0.60	1.87E-03	5353	0.90	2.15E-08
354	-0.80	2.25E-03	2877	1.40	6.79E-07	5355	0.50	1.72E-03
359	0.60	2.42E-04	2878	-0.60	8.90E-04	5361	-1.10	1.83E-05
367	-0.60	5.68E-04	2885	0.80	9.76E-04	5369	-0.70	4.82E-03
368	0.40	1.53E-03	2889	0.80	1.27E-05	5376	0.70	8.11E-03
369	0.60	3.60E-03	2890	0.90	4.88E-10	5377	0.60	2.09E-03
373	1.10	3.80E-05	2891	0.50	2.87E-03	5379	-1.10	5.45E-10
376	-0.80	9.30E-03	2897	-1.00	2.79E-03	5384	0.60	1.61E-04
378	-0.50	2.98E-03	2898	-1.10	1.59E-03	5387	-0.50	2.89E-03
382	0.70	1.76E-04	2900	0.70	1.32E-04	5391	0.60	2.13E-04
392	-0.60	4.16E-03	2901	-1.40	3.05E-10	5399	-1.00	4.82E-06
393	1.20	6.35E-11	2914	0.50	4.35E-03	5405	-0.60	4.28E-03
394	-1.00	8.09E-07	2921	0.60	3.32E-04	5417	0.90	2.97E-05
404	0.90	1.48E-05	2922	0.80	4.23E-03	5429	1.00	3.15E-07
408	-0.80	2.28E-03	2924	1.10	1.87E-09	5432	1.00	1.18E-10
410	-1.10	7.11E-10	2929	-0.70	4.96E-05	5439	-2.00	1.79E-05
411	-1.10	8.84E-10	2930	-0.70	1.02E-05	5443	0.70	1.56E-03
412	-0.80	1.12E-03	2942	0.70	5.59E-05	5446	0.90	8.90E-08

415	-1.00	2.53E-06	2946	0.70	3.35E-05	5448	0.70	6.57E-03
435	-1.30	1.70E-03	2959	-0.80	1.44E-05	5458	0.60	4.58E-03
440	0.50	6.56E-03	2968	-0.50	6.05E-03	5463	-0.60	3.66E-04
444	-0.60	2.16E-03	2980	-1.40	3.51E-03	5473	-1.00	1.72E-07
450	0.70	1.53E-05	2997	0.40	8.10E-03	5480	0.80	9.69E-05
465	-0.70	6.58E-03	3006	0.70	3.51E-05	5483	-0.40	8.38E-03
467	-0.70	6.48E-05	3008	0.70	5.17E-03	5491	0.80	6.65E-06
474	0.60	8.25E-04	3024	0.50	1.25E-03	5499	0.80	8.72E-05
476	0.80	8.28E-05	3026	-0.60	4.40E-04	5501	0.90	3.15E-07
477	0.50	2.26E-03	3029	-1.20	7.95E-03	5502	0.90	4.51E-07
479	-2.00	4.90E-04	3031	1.10	1.59E-06	5505	-1.60	2.21E-05
484	0.70	1.61E-04	3033	-1.90	3.19E-05	5509	0.90	4.12E-05
497	-0.90	7.91E-05	3034	0.80	9.38E-06	5512	-0.80	1.66E-03
499	0.70	3.09E-03	3039	0.50	6.81E-03	5514	1.20	1.76E-04
507	-1.00	9.34E-08	3048	0.80	7.92E-05	5520	0.60	2.34E-04
508	1.10	2.12E-11	3050	-1.10	6.00E-07	5522	-0.60	2.45E-04
524	-0.50	2.60E-03	3053	0.70	6.97E-04	5523	-0.70	4.35E-03
526	-0.50	3.99E-03	3057	-0.50	5.67E-03	5527	0.70	3.58E-05
531	0.80	1.36E-04	3059	-0.70	9.21E-05	5529	-0.60	3.97E-04
532	0.90	5.21E-06	3062	-0.80	8.14E-05	5534	-0.50	6.43E-03
537	0.50	1.34E-03	3066	1.10	2.10E-11	5539	-0.80	1.79E-04
540	-0.90	1.47E-06	3069	0.60	4.12E-04	5548	0.70	1.47E-04
541	-0.60	9.38E-03	3072	1.10	7.02E-06	5552	-0.50	2.04E-03
546	-0.50	2.90E-03	3077	0.60	4.42E-04	5563	-0.60	2.40E-04
548	0.60	7.78E-03	3084	-0.70	5.59E-04	5570	0.80	1.53E-08
552	0.50	9.57E-03	3089	-0.50	5.77E-03	5571	0.90	2.69E-03
559	0.90	7.02E-08	3093	0.80	1.28E-03	5576	1.30	8.98E-09
561	-0.90	5.76E-04	3100	-1.10	2.01E-06	5580	-0.80	9.01E-06
563	-0.80	8.46E-05	3117	1.20	5.33E-06	5581	-0.70	1.07E-03
565	0.50	1.66E-03	3120	-0.80	3.90E-06	5587	-0.50	4.25E-03
569	-0.60	1.47E-03	3124	-0.50	1.33E-03	5592	1.00	2.96E-10
570	-1.10	1.77E-08	3125	-0.60	5.37E-04	5593	-0.70	3.16E-03
571	0.60	5.51E-04	3129	0.70	5.32E-05	5596	-0.90	1.45E-05
595	-0.80	2.02E-04	3132	0.60	4.69E-04	5597	-0.80	2.06E-05
598	-0.70	9.74E-05	3140	0.50	3.96E-03	5605	-1.10	5.97E-04
615	0.50	4.38E-03	3141	0.60	6.79E-04	5606	-0.90	3.72E-03
629	1.10	8.04E-10	3143	-0.90	1.26E-05	5608	-1.20	2.39E-12
636	0.50	2.40E-03	3152	0.60	9.72E-04	5614	-1.50	2.51E-06
638	0.70	3.16E-04	3154	0.70	4.91E-04	5623	0.70	4.06E-05
649	0.60	1.37E-04	3160	0.50	8.66E-03	5627	0.60	4.49E-04
653	0.90	6.35E-03	3161	0.50	9.57E-03	5630	0.90	6.09E-05
654	0.70	7.03E-04	3165	-0.70	7.71E-04	5637	1.00	2.70E-06
245								

657	-0.60	9.81E-05	3166	-0.70	3.36E-05	5638	1.10	4.49E-07
661	-0.60	7.76E-04	3167	-1.10	4.51E-06	5643	0.70	2.13E-03
663	-0.70	1.74E-03	3170	0.90	1.56E-04	5646	-0.60	2.56E-04
664	-0.80	4.49E-06	3176	0.50	1.33E-03	5658	1.20	2.89E-04
665	-0.60	4.78E-03	3180	-0.60	2.44E-03	5667	0.80	2.12E-05
668	-0.80	3.47E-05	3181	-0.90	2.88E-04	5668	-0.60	2.08E-03
672	0.70	9.34E-06	3183	-0.80	2.53E-05	5671	0.40	9.37E-03
681	0.90	1.40E-08	3184	0.90	1.55E-07	5674	-1.30	8.81E-07
686	0.60	2.05E-03	3190	0.90	4.31E-05	5679	-0.60	2.13E-03
690	-0.80	3.24E-04	3196	-0.90	6.83E-05	5680	0.80	4.13E-07
693	0.70	6.84E-03	3198	-0.60	1.59E-04	5688	-1.00	6.08E-04
705	-0.50	5.48E-03	3199	-0.80	1.91E-04	5701	0.80	8.12E-04
724	-1.00	8.60E-06	3203	-0.50	9.22E-03	5704	1.00	3.47E-11
730	-0.80	2.71E-04	3210	0.60	4.85E-05	5705	1.10	1.90E-11
736	0.60	3.25E-04	3217	-0.50	8.75E-03	5707	-1.00	3.69E-06
762	0.70	7.31E-04	3227	-1.00	3.10E-05	5708	-1.10	1.26E-03
777	-1.10	3.30E-04	3241	-1.30	5.75E-06	5710	0.80	4.37E-04
778	0.70	9.23E-03	3245	0.90	4.24E-06	5713	1.00	7.90E-09
779	-0.90	1.85E-04	3248	-0.80	6.47E-03	5715	-0.80	6.10E-03
782	-0.50	7.83E-03	3263	0.70	1.36E-05	5731	0.40	5.95E-03
792	0.50	7.98E-03	3267	0.70	1.15E-03	5744	0.60	8.62E-04
793	1.00	3.19E-06	3272	0.80	1.23E-04	5754	0.70	7.21E-06
794	0.70	2.21E-03	3276	-0.60	4.88E-04	5756	1.40	1.89E-14
795	0.80	5.04E-06	3277	-0.50	1.40E-03	5758	0.70	4.87E-03
809	0.80	1.30E-03	3280	-0.50	2.19E-03	5763	1.20	6.11E-04
811	1.00	1.43E-04	3286	0.70	9.72E-06	5772	1.30	2.24E-05
818	1.30	2.95E-05	3321	0.70	8.25E-05	5776	0.70	1.23E-04
829	0.60	3.13E-03	3322	-1.10	1.89E-07	5777	1.40	1.06E-08
840	-0.90	3.97E-04	3341	-1.20	1.92E-06	5781	0.60	7.26E-04
842	-0.80	3.54E-05	3343	-0.50	2.28E-04	5788	-1.00	2.51E-05
846	-1.00	4.85E-05	3359	-0.80	8.94E-05	5796	-0.50	6.25E-03
858	-0.60	3.42E-03	3371	1.10	3.86E-12	5798	-0.70	1.14E-03
860	1.00	2.55E-07	3374	-1.00	6.44E-04	5800	-0.80	2.26E-06
864	0.60	1.95E-04	3388	-0.70	1.41E-03	5803	-1.20	1.67E-03
865	0.50	6.29E-03	3390	1.00	1.96E-04	5804	-0.90	4.90E-03
868	-0.80	1.36E-03	3394	0.60	4.04E-03	5807	-0.60	6.48E-04
870	0.70	6.33E-05	3395	1.10	1.18E-08	5815	-0.60	7.39E-03
875	-1.20	1.79E-05	3396	-0.70	5.81E-04	5816	-1.10	3.97E-03
876	-0.80	1.04E-05	3407	0.60	5.27E-04	5821	-0.70	1.48E-04
890	-0.50	7.94E-03	3418	0.60	1.27E-04	5822	-1.10	7.16E-04
898	-0.90	1.91E-04	3420	0.50	2.60E-03	5823	-1.80	1.66E-04
900	0.60	4.69E-04	3431	1.10	2.55E-04	5824	-1.80	1.05E-04
901	-0.80	1.02E-05	3432	1.10	2.84E-04	5825	-1.30	2.45E-06

906	1.60	7.82E-08	3439	-0.80	1.94E-03	5828	-0.70	2.70E-03
913	-0.80	1.71E-04	3442	-0.90	3.75E-03	5838	-0.90	1.02E-08
919	1.10	4.91E-06	3446	-1.10	3.72E-04	5840	0.70	1.96E-05
928	0.90	1.84E-07	3448	0.70	1.32E-03	5852	-0.90	4.26E-03
934	-0.70	2.63E-04	3450	-1.10	3.53E-03	5856	0.60	6.40E-04
939	0.60	6.20E-04	3457	-1.00	2.17E-04	5865	0.80	8.10E-03
940	-0.50	6.68E-03	3460	-0.80	8.40E-03	5868	0.70	4.19E-06
949	-1.10	4.14E-08	3467	0.50	1.42E-03	5870	0.50	2.07E-03
954	0.80	6.82E-07	3479	-0.70	6.44E-03	5874	0.50	9.00E-04
959	0.50	4.71E-03	3482	-0.50	8.77E-03	5875	-1.20	2.31E-08
961	1.10	9.71E-04	3483	1.10	1.64E-06	5876	-0.90	5.23E-06
962	0.80	2.44E-06	3485	-1.10	8.33E-09	5877	1.10	3.05E-10
963	-1.10	1.64E-03	3489	0.70	5.70E-04	5883	-0.70	2.26E-03
964	1.30	4.02E-08	3491	1.10	1.15E-10	5887	-1.30	5.79E-05
979	0.90	3.25E-07	3492	0.70	1.80E-04	5890	-1.00	9.58E-06
984	0.50	1.48E-03	3498	0.50	6.94E-03	5897	-0.70	2.12E-04
989	0.70	2.81E-04	3503	-0.70	4.87E-03	5901	-1.00	9.63E-08
993	0.80	6.90E-06	3506	-0.60	2.90E-03	5902	0.60	2.09E-04
994	-1.30	7.48E-13	3514	-0.70	1.99E-04	5903	1.10	3.91E-04
1006	-1.10	8.85E-04	3515	1.20	1.79E-03	5904	0.50	3.79E-03
246								
1009	-0.50	8.42E-03	3518	-1.20	7.21E-03	5906	0.80	6.73E-06
1016	-0.70	1.51E-05	3523	0.90	1.28E-07	5914	1.00	1.20E-07
1033	0.90	2.32E-08	3529	0.60	5.79E-03	5921	-0.70	2.53E-03
1035	-0.70	6.38E-04	3538	-0.70	1.41E-03	5922	-0.80	2.16E-03
1042	0.80	9.19E-07	3539	1.10	1.97E-09	5927	0.50	8.35E-03
1045	-0.80	3.40E-03	3540	-0.60	7.95E-04	5930	-0.70	1.57E-04
1057	0.50	1.40E-03	3558	-0.60	7.70E-04	5931	0.70	1.91E-03
1063	1.10	7.16E-12	3563	-1.00	3.90E-03	5945	0.40	8.27E-03
1068	-0.90	4.15E-03	3568	0.70	3.81E-06	5948	-0.40	8.24E-03
1069	-0.80	7.71E-03	3569	0.70	7.10E-05	5955	1.20	1.37E-09
1074	1.30	1.04E-08	3582	-0.60	1.21E-03	5958	0.60	1.35E-03
1084	0.60	2.30E-03	3586	0.60	2.20E-03	5963	-0.80	1.24E-03
1087	0.50	7.89E-04	3587	0.80	2.64E-04	5966	0.70	2.84E-05
1100	-0.90	1.12E-03	3589	0.70	9.01E-04	5968	-0.40	8.83E-03
1110	-0.70	1.38E-05	3591	0.80	3.65E-03	5970	0.60	7.65E-04
1121	-0.60	2.75E-03	3593	-1.00	1.14E-06	5971	1.10	1.05E-10
1128	-0.60	8.11E-04	3594	0.70	1.45E-04	5972	0.70	2.81E-05
1129	-0.60	6.85E-04	3606	0.50	6.59E-03	5979	0.90	2.84E-05
1138	-0.70	7.15E-03	3609	-1.50	3.73E-03	5982	0.80	3.70E-06
1148	0.60	3.72E-05	3613	1.30	1.64E-14	5989	0.30	6.88E-03
1149	0.60	2.04E-03	3614	-0.60	2.16E-03	5993	-0.90	1.15E-03
1151	0.50	7.67E-03	3615	0.50	1.68E-03	6006	-0.60	2.43E-03

1152	0.90	7.16E-05	3617	1.00	5.52E-04	6015	-0.60	1.19E-03
1161	0.60	1.50E-04	3618	1.00	4.92E-10	6016	-0.50	4.76E-03
1162	0.50	3.44E-03	3619	-0.50	9.24E-03	6031	0.70	8.41E-06
1163	0.90	1.13E-04	3621	-0.80	9.59E-03	6036	-0.60	6.27E-04
1167	0.60	1.49E-04	3625	0.40	1.02E-03	6046	0.80	9.22E-03
1170	-0.50	5.34E-04	3647	-0.70	1.15E-04	6049	1.00	3.56E-05
1171	0.70	3.89E-06	3652	-1.40	5.80E-04	6052	-0.70	1.59E-03
1182	0.50	5.60E-03	3661	-0.90	7.14E-06	6061	-1.00	3.83E-03
1183	0.70	6.40E-06	3667	0.70	3.70E-04	6067	0.60	1.16E-04
1185	1.00	1.66E-09	3668	0.70	2.86E-05	6068	0.90	3.13E-08
1186	0.70	2.11E-05	3669	0.50	2.18E-03	6071	0.80	1.95E-06
1187	0.70	1.01E-05	3684	0.50	1.87E-03	6075	-0.40	1.55E-03
1188	0.70	7.91E-06	3693	-1.00	4.16E-07	6081	0.50	8.00E-03
1195	1.00	4.01E-09	3695	-0.80	1.09E-03	6086	-1.10	1.88E-07
1213	0.70	3.82E-05	3700	1.10	3.24E-10	6087	-0.80	8.41E-05
1214	0.70	1.21E-04	3706	-0.50	4.06E-03	6088	-0.80	5.45E-05
1229	-0.90	1.63E-06	3708	0.50	2.53E-03	6094	0.60	6.39E-03
1231	0.60	5.72E-03	3713	0.60	1.87E-03	6098	0.70	5.21E-04
1237	-0.80	1.69E-04	3714	-0.50	3.09E-05	6102	-0.60	2.44E-03
1238	0.50	7.82E-04	3719	-0.90	5.99E-04	6104	-1.00	2.53E-10
1239	-0.90	5.68E-06	3720	0.90	1.23E-03	6105	1.20	1.08E-12
1244	1.20	2.72E-12	3722	1.10	2.49E-10	6109	-1.10	2.24E-05
1246	-0.30	9.23E-03	3729	-1.00	5.79E-06	6110	-0.80	1.00E-02
1251	0.80	2.35E-05	3734	0.60	3.17E-04	6119	0.60	5.17E-03
1252	-0.80	1.78E-04	3736	0.90	1.08E-06	6125	-0.60	2.90E-03
1255	0.70	4.09E-06	3742	-0.80	2.78E-04	6130	-0.70	3.15E-04
1265	0.60	1.60E-03	3745	0.50	4.00E-03	6142	-0.60	7.49E-04
1266	-0.70	3.04E-04	3749	-0.80	9.21E-05	6150	-1.30	3.71E-04
1272	-1.00	3.96E-03	3752	-0.70	2.58E-04	6152	1.00	2.10E-08
1278	-0.70	4.59E-05	3757	0.70	1.76E-03	6154	-0.50	1.85E-04
1287	-1.40	2.97E-10	3759	-1.00	5.08E-06	6170	0.70	7.28E-04
1294	0.50	1.23E-03	3760	0.90	2.27E-08	6172	0.60	7.24E-04
1297	-1.40	3.05E-05	3763	0.70	2.89E-03	6181	1.00	8.63E-09
1299	-0.90	3.00E-03	3768	-1.30	5.82E-03	6197	0.70	7.95E-04
1305	0.60	1.07E-04	3770	0.50	4.44E-03	6198	0.70	8.47E-04
1306	-1.00	9.29E-06	3771	-1.00	9.30E-05	6204	-0.80	1.19E-03
1307	-1.00	2.11E-04	3772	-0.90	5.66E-04	6214	0.80	8.75E-06
1311	0.70	2.14E-03	3775	-0.70	8.65E-03	6219	0.80	6.49E-06
1317	-0.70	4.11E-03	3776	-0.70	2.11E-04	6225	0.70	1.13E-05
1319	0.60	1.97E-03	3778	-0.60	7.16E-04	6229	-0.70	5.41E-06
1325	0.50	9.44E-03	3780	0.80	5.85E-07	6230	0.90	1.95E-07
247								
1329	-0.50	7.55E-03	3789	-1.10	8.84E-04	6235	-1.10	2.94E-03

1332	0.80	3.00E-04	3792	-1.00	1.02E-04	6243	0.50	7.00E-03
1346	-0.90	7.92E-06	3793	-1.00	1.49E-07	6245	1.10	3.18E-10
1354	-1.00	5.55E-05	3794	-0.60	1.91E-03	6249	1.10	1.24E-11
1364	0.90	5.14E-07	3796	-1.10	2.77E-04	6250	-0.70	1.80E-05
1367	0.70	6.76E-05	3797	-1.10	2.30E-04	6253	-0.70	2.76E-05
1370	-1.70	2.19E-05	3803	0.80	4.52E-04	6258	-0.70	2.32E-03
1380	-1.00	8.94E-05	3805	0.60	9.66E-04	6263	-0.50	5.14E-03
1385	-0.60	2.04E-03	3808	-0.60	3.39E-03	6266	-1.30	1.48E-03
1388	-0.60	7.49E-03	3817	-0.60	4.35E-04	6269	-0.70	6.53E-03
1390	-1.60	1.52E-05	3821	1.30	1.15E-05	6271	-1.60	5.52E-05
1393	-1.10	4.43E-10	3858	-0.50	4.58E-03	6272	-0.60	3.96E-04
1395	0.80	1.76E-06	3859	-0.70	4.86E-06	6284	0.50	3.57E-03
1396	-1.00	3.88E-08	3862	0.70	3.05E-05	6285	0.80	8.27E-08
1397	0.80	1.34E-06	3873	-0.70	6.69E-04	6289	0.60	1.06E-03
1401	-1.10	2.89E-10	3878	-0.80	6.26E-06	6294	-0.80	8.19E-07
1406	-1.00	6.39E-07	3879	-0.50	9.06E-03	6303	0.90	2.49E-07
1410	-1.00	7.91E-08	3883	0.60	5.49E-04	6304	0.90	3.07E-07
1424	0.70	1.22E-04	3884	-1.00	9.50E-08	6307	-0.50	7.75E-03
1429	-0.60	2.72E-04	3886	1.30	1.17E-12	6310	0.90	6.05E-08
1433	0.90	4.29E-08	3887	-0.70	8.87E-04	6321	0.70	1.39E-04
1436	-0.60	1.90E-03	3891	-0.60	6.34E-04	6330	-0.60	1.98E-03
1438	0.80	7.58E-06	3902	-1.10	5.84E-08	6332	1.20	5.01E-06
1439	0.80	8.42E-07	3910	0.70	1.60E-05	6333	0.60	4.05E-04
1442	-0.50	7.03E-03	3914	-0.80	1.00E-06	6337	-0.90	3.48E-07
1443	0.60	2.30E-04	3917	0.90	1.99E-06	6338	0.70	9.40E-05
1444	0.60	1.80E-04	3918	-0.70	3.15E-03	6345	0.70	1.11E-04
1451	1.00	2.43E-07	3922	-0.90	4.66E-09	6348	0.50	2.46E-03
1464	0.70	5.96E-05	3924	0.30	5.87E-03	6352	-1.40	1.41E-04
1466	-0.90	2.62E-05	3927	-0.70	1.35E-04	6358	0.80	1.16E-06
1472	-0.70	9.22E-05	3929	0.70	2.66E-05	6373	0.70	9.42E-05
1475	-1.00	3.87E-08	3946	0.60	3.92E-04	6375	0.70	3.23E-03
1496	-1.00	5.87E-03	3947	-0.70	2.56E-04	6376	0.50	2.98E-03
1503	-0.50	3.11E-03	3959	1.00	1.50E-04	6377	1.30	1.26E-09
1505	0.80	3.33E-04	3961	0.50	3.97E-03	6381	-0.80	2.49E-07
1507	1.00	2.24E-05	3965	0.80	6.11E-04	6387	-0.50	1.96E-03
1510	-1.00	8.40E-03	3971	0.60	3.52E-03	6394	0.60	9.42E-04
1530	-0.70	9.82E-05	3972	1.00	2.37E-08	6398	-0.70	1.90E-03
1548	-0.90	4.79E-08	3983	0.70	6.33E-05	6408	1.00	3.87E-09
1558	1.10	4.94E-09	3991	0.50	7.82E-03	6411	-0.50	8.80E-03
1562	0.60	6.10E-03	3992	-0.90	2.05E-03	6415	-1.10	9.00E-08
1572	-0.80	2.38E-03	4011	0.80	8.40E-06	6420	-0.50	1.92E-03
1580	0.70	3.99E-05	4015	0.50	3.56E-03	6431	-1.50	8.37E-03
1583	-0.60	9.72E-03	4017	-0.80	7.34E-05	6434	0.50	5.07E-03

1596	-0.60	3.05E-04	4021	1.20	2.41E-05	6436	0.90	1.33E-07
1599	1.20	2.48E-10	4025	1.20	4.37E-13	6438	0.60	2.87E-05
1612	0.60	1.57E-04	4027	0.60	1.73E-04	6442	-0.80	1.94E-03
1614	1.00	1.26E-10	4035	-0.90	2.88E-05	6447	0.50	8.32E-03
1616	0.80	1.27E-05	4039	0.40	6.02E-03	6452	-0.60	2.76E-03
1621	-0.70	2.98E-05	4041	-0.70	3.60E-03	6454	0.50	2.98E-03
1622	0.70	1.54E-04	4044	-0.70	2.24E-03	6456	-0.50	9.10E-03
1625	1.40	1.71E-16	4051	-1.10	2.24E-11	6461	-0.90	2.88E-04
1626	0.50	1.86E-03	4052	-1.20	9.82E-12	6463	-0.50	2.79E-03
1628	-0.70	1.27E-03	4053	0.60	5.75E-04	6464	-0.60	1.25E-03
1629	-0.70	1.44E-03	4056	0.70	3.26E-05	6469	0.50	7.65E-03
1635	-0.80	1.33E-06	4057	-0.50	9.59E-03	6471	0.80	1.28E-03
1636	-1.40	3.79E-04	4060	0.70	9.86E-06	6477	0.80	8.76E-04
1640	-0.90	8.45E-05	4061	0.70	1.05E-05	6480	-0.90	1.19E-03
1642	0.90	1.89E-06	4070	-0.50	8.32E-03	6485	-0.80	8.63E-04
1643	0.80	6.28E-05	4076	-0.90	7.70E-04	6493	-1.40	8.82E-04
1650	-0.70	1.98E-04	4079	0.70	4.43E-03	6498	-0.90	1.15E-07
1653	0.80	9.29E-07	4081	0.60	8.26E-04	6515	1.00	7.20E-05
1661	-0.50	6.69E-03	4084	1.10	4.03E-09	6523	-0.50	3.27E-04
248								
1662	-1.40	4.53E-05	4086	0.60	1.76E-03	6530	-0.40	6.54E-03
1663	-0.80	3.46E-03	4087	0.60	1.89E-03	6532	-0.80	9.06E-03
1664	-0.40	8.80E-03	4088	-0.60	3.65E-03	6533	-0.50	4.03E-03
1676	-0.90	3.71E-03	4090	-0.90	9.55E-06	6544	0.80	2.92E-07
1677	1.10	2.77E-11	4096	0.60	3.89E-03	6555	0.70	2.95E-05
1678	0.60	8.05E-03	4097	-1.00	2.93E-07	6562	0.70	5.52E-05
1681	0.90	2.87E-07	4098	-0.50	5.60E-03	6563	-0.40	8.89E-03
1686	0.80	4.34E-07	4100	0.60	5.66E-04	6564	0.90	3.36E-05
1690	0.50	7.94E-03	~~4115~~	0.70	2.69E-05	6565	0.70	1.98E-06
1692	1.00	1.02E-04	4120	-0.80	2.67E-05	6568	-1.00	3.55E-09
1693	0.70	7.36E-03	4121	-1.00	4.53E-06	6571	-1.00	2.30E-03
1694	0.70	6.82E-03	4126	-1.00	4.86E-03	6582	0.50	8.24E-03
1702	0.80	1.03E-04	4134	-0.60	1.38E-03	6597	0.90	3.34E-03
1710	-0.80	3.54E-05	4135	-0.70	2.29E-03	6598	0.90	3.38E-03
1716	0.50	3.61E-03	4140	0.50	2.01E-03	6601	-1.10	8.12E-06
1724	0.50	3.65E-03	4155	0.80	1.16E-06	6603	-0.90	2.92E-03
1730	0.90	1.80E-07	4159	0.70	8.69E-05	6606	1.10	2.99E-04
1731	-0.60	1.27E-03	4163	-0.80	5.73E-03	6609	-0.80	3.99E-03
1741	0.70	1.90E-04	4164	0.50	2.42E-03	6619	-0.70	1.13E-04
1743	-1.60	4.07E-04	4165	-0.70	9.24E-05	6626	-0.80	1.19E-04
1744	0.60	5.36E-03	4166	-0.90	5.65E-07	6635	-0.60	8.57E-03
1745	0.60	3.76E-03	4179	-0.60	3.13E-04	6637	0.50	8.14E-03
1751	0.80	2.46E-06	4194	-1.00	2.66E-06	6639	0.50	4.94E-03

1752	0.90	5.43E-07	4196	1.00	4.32E-06	6643	0.50	9.49E-04
1755	0.60	1.09E-03	4202	1.00	2.96E-09	6659	0.70	3.79E-06
1764	-0.70	3.18E-04	4204	-0.60	4.60E-04	6660	-1.10	2.66E-07
1766	0.90	2.54E-03	4205	0.60	1.20E-04	6669	0.50	8.87E-03
1784	1.30	1.51E-05	4214	-1.20	4.98E-04	6676	-0.80	3.21E-04
1788	-0.50	8.42E-03	4234	-1.70	5.90E-12	6683	-0.90	3.21E-07
1790	-0.70	3.17E-08	4235	1.10	2.72E-04	6684	0.60	2.80E-03
1792	0.80	4.18E-04	4236	0.90	3.17E-03	6699	-1.30	1.03E-03
1798	0.80	2.37E-05	4238	-0.60	4.64E-03	6701	-0.90	4.47E-03
1799	0.50	1.04E-03	4245	-0.80	1.12E-03	6706	-0.60	2.39E-03
1804	-1.20	2.43E-03	4246	-0.60	1.24E-03	6711	-1.10	9.50E-03
1805	-0.90	2.59E-04	4248	-2.80	3.73E-05	6714	-0.80	2.07E-06
1820	-1.00	1.74E-04	4250	-1.10	3.40E-03	6718	-0.80	1.66E-03
1825	-0.50	2.08E-03	4265	1.20	2.13E-09	6721	1.20	2.96E-04
1827	-0.50	1.43E-03	4266	-1.50	2.51E-04	6722	-0.70	3.19E-04
1828	0.60	2.17E-03	4268	-0.80	2.64E-06	6724	1.20	3.18E-09
1837	0.50	5.73E-03	4272	0.70	3.45E-05	6727	0.70	2.75E-03
1850	0.90	2.73E-03	4276	-0.90	2.44E-05	6730	0.60	7.36E-04
1862	-0.60	8.21E-04	4279	-0.50	7.12E-03	6735	0.80	3.08E-04
1864	-0.80	1.96E-04	4297	0.90	1.52E-08	6742	-0.70	1.90E-03
1869	1.20	1.04E-11	4299	-0.60	2.67E-03	6749	-1.00	2.39E-04
1875	-1.00	9.88E-04	4301	-1.10	1.86E-04	6754	0.60	1.24E-03
1876	0.80	8.58E-06	4304	0.90	2.40E-03	6755	0.70	6.52E-04
1879	-0.60	4.42E-03	4308	-0.80	8.64E-03	6757	-0.90	6.78E-05
1884	-0.70	8.12E-05	4317	-0.70	6.22E-04	6762	-0.80	1.64E-05
1893	0.60	6.77E-03	4319	-0.60	4.76E-03	6766	-0.60	1.51E-04
1907	-0.90	5.04E-06	4332	-0.50	2.90E-03	6770	-0.70	3.37E-05
1918	0.70	1.82E-05	4333	-1.20	8.51E-06	6774	-1.10	1.88E-05
1919	-0.90	6.83E-03	4334	1.40	8.68E-18	6776	0.80	1.14E-05
1924	-0.60	5.17E-03	4335	0.70	1.02E-03	6780	-0.90	1.81E-05
1928	-1.00	1.87E-07	4344	0.60	7.16E-03	6799	0.70	1.01E-05
1929	0.70	6.97E-05	4354	0.70	9.58E-06	6818	-0.60	2.10E-03
1930	0.70	5.30E-05	4358	0.80	9.22E-03	6820	-1.10	2.14E-03
1933	0.60	2.67E-04	4359	0.70	7.12E-03	6835	0.50	1.14E-03
1934	0.80	8.52E-03	4366	0.90	1.41E-03	6839	0.90	8.69E-09
1939	0.70	2.96E-06	4382	-0.50	6.96E-03	6843	-0.50	7.14E-03
1941	0.90	8.41E-07	4387	-1.00	2.99E-07	6849	-1.10	5.16E-03
1944	0.50	2.04E-03	4398	-0.70	6.44E-04	6856	-1.40	3.29E-14
1974	-0.70	4.49E-05	4401	-0.80	1.05E-03	6867	-0.80	3.32E-03
1975	0.60	8.63E-04	4409	-0.70	1.36E-05	6869	-1.10	2.23E-08
249								
1985	-0.60	5.05E-03	4415	-0.60	4.94E-04	6879	-0.60	1.12E-03
1994	0.70	2.58E-04	4418	-0.70	7.97E-03	6886	-0.90	6.73E-07

1996	0.70	7.62E-04	4422	-0.60	2.09E-03	6887	-0.50	2.01E-03
1997	1.00	2.75E-04	4425	1.10	6.75E-12	6890	0.70	8.16E-05
1999	0.90	2.18E-08	4426	-1.20	5.50E-08	6891	-0.90	4.39E-05
2004	0.80	3.12E-04	4445	0.60	3.00E-03	6894	0.90	1.37E-04
2005	-1.10	6.46E-03	4446	-1.40	1.96E-08	6900	-1.30	3.88E-04
2010	0.70	2.70E-05	4455	-0.80	6.01E-05	6909	-1.00	3.88E-03
2013	-0.70	1.28E-04	4458	-0.60	5.78E-04	6910	0.60	4.65E-03
2017	-0.60	2.79E-03	4459	-0.60	2.76E-03	6916	0.70	9.40E-05
2024	0.60	5.41E-03	4460	-0.70	2.05E-03	6919	-0.70	2.00E-04
2037	0.60	1.94E-03	4476	-0.50	3.59E-03	6926	0.60	7.17E-03
2044	-0.70	6.47E-04	4478	-0.90	5.00E-04	6928	0.50	4.09E-03
2045	0.50	9.55E-04	4485	-0.80	4.35E-06	6938	-0.80	1.09E-06
2056	-0.50	2.92E-03	4486	1.00	1.95E-04	6939	0.90	6.85E-07
2059	1.20	9.60E-11	4487	0.60	8.76E-05	6942	-0.50	2.59E-03
2077	0.80	7.17E-09	4492	-0.80	9.84E-04	6945	0.50	2.85E-03
2078	-0.50	6.12E-03	4493	-1.20	4.42E-08	6953	0.80	6.17E-07
2092	-1.10	9.32E-05	4503	0.50	2.05E-03	6954	-0.80	4.61E-05
2093	-0.60	1.13E-06	4505	0.90	3.41E-07	6960	0.50	9.98E-03
2094	-1.40	5.57E-14	4507	-0.50	9.64E-03	6962	0.70	8.67E-05
2099	-0.70	7.21E-03	4515	0.60	2.89E-04	6985	0.50	1.95E-03
2102	0.70	8.01E-05	4525	-0.80	3.80E-04	6988	0.60	8.95E-03
2107	1.00	5.32E-08	4529	-1.10	2.35E-03	6993	-1.10	2.60E-03
2108	1.60	2.41E-07	4542	0.80	1.85E-06	6996	1.10	4.07E-10
2110	1.00	1.43E-09	4543	0.70	4.33E-03	6999	-0.70	1.28E-05
2114	-0.90	1.66E-03	4544	-0.50	1.00E-03	7004	0.50	4.03E-03
2118	1.00	2.08E-07	4556	-0.50	8.42E-03	7006	0.90	3.64E-04
2121	0.70	5.65E-04	4578	1.10	2.75E-11	7013	-0.70	1.05E-04
2123	0.60	2.10E-03	4580	-1.30	3.54E-07	7018	-1.00	7.27E-05
2126	0.70	1.65E-04	4581	1.10	2.66E-10	7025	-0.60	1.03E-03
2127	1.30	5.28E-04	4582	1.10	1.36E-11	7028	0.80	1.12E-03
2137	0.40	4.97E-03	4583	1.10	2.83E-11	7032	0.60	3.62E-04
2157	-0.70	8.39E-03	4585	-2.20	2.07E-05	7056	-0.80	3.46E-03
2163	-1.10	4.34E-05	4586	-0.60	1.57E-03	7064	0.90	4.83E-07
2172	1.10	2.98E-10	4602	0.80	1.04E-06	7069	-0.60	8.15E-03
2175	-1.10	6.86E-05	4605	-0.60	1.59E-03	7072	-0.80	1.13E-06
2185	1.00	3.26E-07	4606	-0.70	3.12E-05	7073	-0.80	1.13E-06
2187	-0.90	2.52E-04	4607	-0.70	4.85E-05	7078	-0.80	2.03E-03
2203	-1.20	1.01E-04	4614	-0.60	1.24E-03	7079	0.50	3.15E-03
2215	0.60	5.27E-04	4619	-0.70	7.30E-05	7086	-0.90	9.66E-06
2219	-0.50	8.58E-03	4622	-0.70	1.05E-04	7098	0.70	1.43E-04
2222	0.80	6.64E-04	4629	0.50	5.53E-03	7106	0.60	2.68E-04
2227	-0.90	4.76E-05	4634	-1.00	3.92E-04	7108	-1.00	7.29E-04
2228	-0.90	5.23E-03	4644	-0.40	8.42E-03	7112	-0.70	6.28E-04

2231	0.80	2.92E-04	4651	0.80	9.03E-05	7116	1.00	2.28E-09
2248	-0.40	2.29E-03	4654	-1.00	7.17E-07	7122	-1.10	3.43E-04
2250	-0.60	3.01E-04	4664	0.90	3.57E-07	7128	0.70	7.35E-05
2256	0.90	3.17E-03	4670	-0.60	3.25E-03	7129	-0.60	8.93E-04
2261	-0.50	3.89E-03	4671	-1.00	1.77E-06	7130	0.90	2.62E-05
2267	-0.40	7.93E-03	4675	0.60	1.53E-03	7139	-0.60	9.49E-03
2268	-1.00	2.83E-04	4679	-0.50	2.12E-03	7140	-1.30	7.97E-03
2291	-0.90	8.68E-04	4687	0.60	5.15E-04	7145	0.50	2.05E-03
2293	0.90	3.10E-07	4690	-1.10	1.07E-04	7146	0.80	6.20E-06
2294	0.90	3.84E-07	4694	-0.90	3.09E-06	7147	0.80	2.83E-06
2295	-0.60	6.84E-03	4696	-0.90	4.55E-07	7149	0.60	8.64E-04
2300	0.80	4.40E-07	4714	-0.80	1.11E-04	7150	0.60	1.08E-03
2303	0.50	6.89E-03	4725	-0.70	3.84E-04	7151	0.60	9.36E-04
2304	0.70	4.54E-04	4726	0.90	1.66E-04	7160	0.70	2.32E-04
2318	-0.70	1.21E-04	4734	-0.70	9.39E-03	7161	-1.00	8.04E-07
2323	0.50	2.10E-03	4746	0.60	2.30E-04	7166	-0.80	1.88E-05
2325	-0.90	5.32E-07	4756	1.00	1.17E-10	7172	0.80	6.64E-07
2328	0.50	3.54E-03	4758	-0.50	8.67E-03	7188	-0.60	1.39E-03
250								
2329	-0.60	4.80E-03	4760	-1.20	2.61E-08	7190	0.50	4.94E-03
2335	-1.30	4.40E-10	4761	-1.20	2.98E-08	7197	-0.60	2.20E-03
2343	0.60	2.70E-04	4764	1.00	1.31E-04	7199	-0.50	7.57E-03
2345	-0.60	2.04E-03	4765	0.50	7.36E-03	7204	0.50	1.80E-03
2353	0.80	4.07E-06	4770	-0.70	6.29E-05	7209	0.80	1.25E-03
2354	-1.50	4.24E-05	4771	-0.90	8.82E-04	7212	0.50	3.89E-03
12933	-1.00	6.46E-04	14659	0.56	1.71E-03	2433	1.20	3.51E-06
12938	-1.00	2.00E-03	14695	-0.80	1.01E-04	2443	-0.90	7.14E-03
12940	0.50	1.62E-03	14697	-0.73	5.67E-04	2446	0.60	1.05E-03
12941	-0.90	9.58E-03	14698	-0.73	5.36E-04	2456	0.90	1.82E-05
12902	-0.40	9.15E-03	14699	0.94	1.38E-08	2465	-1.00	2.74E-09
12905	-0.90	3.93E-06	14700	-0.58	5.41E-04	2466	-0.50	7.99E-03
12913	0.90	1.45E-06	14725	0.52	2.15E-03	2470	-1.20	1.93E-04
12927	-0.60	4.59E-04	14727	1.17	1.82E-11	2471	1.00	3.70E-10
12888	-0.90	2.58E-05	14734	-0.94	1.31E-06	2472	-0.90	2.44E-05
12889	1.50	1.55E-20	14739	0.48	3.11E-03	4781	0.50	5.62E-03
12894	-1.00	3.26E-03	14778	0.44	9.42E-03	4786	-0.70	3.11E-03
12899	-0.60	1.63E-03	14781	-1.65	4.00E-05	4788	0.90	3.26E-05
12881	0.70	3.41E-05	14790	-1.07	2.55E-04	4789	-0.80	1.68E-05
12885	0.70	7.83E-05	14801	-0.54	3.07E-03	4801	-0.90	1.51E-07
12886	-0.80	2.13E-03	14806	-1.12	8.06E-04	4807	0.90	5.14E-06
12887	1.30	3.22E-09	14808	0.94	2.58E-08	4827	0.80	4.26E-06
12998	0.90	1.17E-06	14839	-0.78	2.79E-05	4839	-0.50	5.79E-05
13000	-0.50	1.05E-03	14866	0.81	6.97E-06	4843	0.90	2.74E-07

13003	-1.10	1.34E-06	14872	-1.99	8.60E-04	4847	0.60	3.35E-05
13009	-1.70	4.41E-16	14883	0.92	1.77E-03	4854	-0.60	2.13E-03
13018	-0.80	1.72E-04	14886	0.73	4.75E-06	4858	-0.90	1.73E-05
13024	1.10	3.74E-05	14891	-0.69	6.54E-03	4860	-0.50	7.99E-03
13025	0.80	5.81E-06	14899	0.60	3.82E-03	4863	-0.70	1.71E-05
13038	1.40	1.37E-04	14904	0.58	3.60E-04	4871	-0.60	6.76E-04
13043	0.60	6.44E-05	14915	0.89	9.81E-08	4877	0.50	9.85E-04
13051	1.00	3.43E-10	14925	0.52	1.77E-03	4879	-0.60	1.10E-03
13063	-1.20	6.20E-06	14932	-0.90	4.17E-03	4894	-0.70	8.60E-05
13065	-0.60	7.88E-04	14937	0.84	1.29E-07	4898	0.60	1.25E-05
13072	-0.80	9.10E-03	14940	0.61	3.15E-03	4911	0.90	3.34E-05
13075	0.60	1.11E-04	14948	-0.73	1.57E-04	4914	-0.60	4.05E-03
13094	-0.80	2.03E-04	14966	-0.90	5.80E-07	7213	0.50	1.55E-03
13098	-0.60	1.37E-03	14972	0.52	2.29E-03	7218	-1.20	1.69E-12
13103	0.60	7.76E-04	14973	0.63	3.15E-03	7219	-0.60	2.16E-03
13111	1.10	9.60E-12	14974	-0.71	4.31E-04	7223	-1.20	1.02E-06
13113	0.50	1.25E-03	14975	0.84	1.00E-04	7229	0.70	1.43E-04
13116	-0.70	1.96E-03	14989	-1.40	5.52E-04	7232	-0.80	2.63E-06
13128	-1.40	2.48E-04	14990	-0.78	6.63E-03	7248	-0.60	4.95E-03
13139	0.50	6.04E-03	14996	-0.88	1.55E-06	7251	0.50	7.37E-03
13142	-0.90	1.59E-03	15003	-0.96	9.15E-08	7255	0.60	5.25E-03
13143	0.90	4.50E-06	15017	-0.94	8.88E-03	7263	0.40	7.17E-03
13151	-1.00	1.23E-05	15026	-0.47	7.84E-03	7271	-0.50	2.53E-03
13161	-0.50	2.26E-03	15047	-0.91	8.69E-06	7279	-0.70	7.62E-05
13171	1.00	2.45E-05	15060	-0.72	1.11E-04	7282	-0.40	5.80E-03
13175	0.50	3.49E-03	15062	-1.49	9.00E-05	7289	1.10	6.54E-12
13178	0.50	1.74E-03	15092	0.53	1.82E-03	7293	-1.00	5.24E-07
13183	1.00	1.08E-03	15105	0.53	6.80E-03	7296	-1.10	2.24E-03
13188	0.80	2.13E-05	15114	-0.56	4.54E-03	7303	0.70	6.82E-03
13195	-0.50	9.44E-03	15115	-0.80	2.46E-04	7310	-0.60	1.77E-03
13201	0.90	3.39E-03	15128	0.84	1.52E-06	7313	0.70	3.59E-05
13210	0.80	1.13E-05	15131	-0.62	3.15E-04	7335	-0.60	7.55E-03
13211	-0.80	2.80E-03	15132	-0.91	4.09E-03	7336	0.90	7.89E-05
13230	-1.00	2.25E-08	15168	-0.71	2.95E-04	9523	-0.50	3.43E-03
13253	0.50	9.97E-03	15184	-0.72	1.20E-04	9524	-0.50	3.71E-03
13264	-0.50	1.07E-03	15187	-1.65	3.91E-05	9530	-0.80	3.10E-03
13276	0.60	1.71E-04	15209	-0.54	2.01E-03	9531	-0.70	3.09E-04
13300	-0.60	5.51E-04	15211	-1.37	1.01E-10	9540	-0.70	1.57E-03
13302	0.90	9.27E-09	15215	-0.81	5.54E-06	9549	1.20	2.19E-04
251								
13308	-0.90	9.06E-03	15233	-0.82	8.03E-04	9552	0.70	7.90E-05
13323	-1.30	1.57E-03	15243	-0.82	2.66E-03	9553	-0.50	4.39E-03
13328	0.70	3.70E-04	15244	-1.10	1.46E-03	9557	-0.60	6.80E-04

13349	0.50	8.74E-03	15248	-1.14	1.94E-03	9558	-0.60	7.83E-04
13367	0.70	1.85E-05	15252	0.63	3.04E-03	9575	1.40	4.34E-15
13378	-1.70	1.92E-05	15260	-1.36	5.78E-09	9580	-0.80	6.07E-05
13383	0.80	4.81E-06	15289	-0.52	7.27E-03	9581	-0.80	5.84E-05
13413	1.30	2.96E-05	15309	0.63	2.33E-04	9587	0.90	1.34E-07
13420	0.70	8.53E-04	15329	0.77	1.73E-03	9592	0.50	5.79E-03
13423	0.70	9.99E-05	15333	0.47	6.33E-03	9598	-0.70	3.95E-03
13434	0.50	3.56E-03	15351	0.56	5.45E-03	9609	0.60	5.97E-03
13441	1.00	1.60E-09	15375	-0.89	3.64E-05	9615	-1.00	3.36E-07
13455	-0.70	4.55E-05	252	-0.10	5.00E-02	9625	1.30	7.49E-06
13457	-0.50	7.04E-03	421	-0.17	5.00E-02	9636	-1.60	1.44E-08
13466	-0.50	2.84E-03	610	-0.30	5.00E-02	9646	-0.70	2.37E-04
13485	0.60	3.51E-03	684	-0.17	5.00E-02	12952	0.60	8.91E-05
13492	1.20	7.54E-06	1192	-0.37	5.00E-02	12977	0.70	4.67E-04
13512	0.80	1.80E-06	1211	-0.19	5.00E-02	12993	0.50	1.57E-03
13516	0.60	1.87E-04	1315	-0.21	5.00E-02	12994	-1.00	1.89E-08
13521	-0.60	1.15E-03	1861	-0.82	5.00E-02	12996	0.80	1.02E-05
13523	0.80	1.39E-04	2029	-0.43	5.00E-02	13998	0.61	3.76E-03
13527	-0.90	2.39E-07	2070	1.54	5.00E-02	14010	-0.54	1.42E-03
13529	0.70	3.34E-04	2690	1.95	5.00E-02	14016	0.51	8.69E-03
13542	0.80	1.77E-05	2729	-0.47	5.00E-02	14019	0.79	4.17E-07
13553	0.60	3.20E-03	3268	1.39	5.00E-02	14031	-0.98	7.89E-08
13554	-0.50	8.67E-03	3381	-1.83	5.00E-02	14038	-0.46	9.34E-03
13608	0.50	4.12E-03	3509	1.27	5.00E-02	14052	-0.64	8.83E-04
13609	0.70	2.96E-05	3682	-0.25	5.00E-02	14055	0.73	6.84E-05
13611	0.50	7.89E-03	3767	1.00	5.00E-02	14071	-0.64	4.50E-04
13629	0.80	1.80E-06	3990	-0.54	5.00E-02	14101	0.73	7.62E-04
13631	-1.10	2.50E-06	4174	-0.34	5.00E-02	14104	-0.57	6.71E-03
13652	0.90	2.64E-06	4323	0.56	5.00E-02	14106	0.72	2.42E-06
13667	-0.60	4.73E-03	4717	-2.76	5.00E-02	14111	-0.68	6.48E-04
13668	0.60	2.24E-03	4718	4.22	5.00E-02	14113	1.15	4.73E-09
13675	0.50	1.41E-03	5100	0.41	5.00E-02	14116	0.73	6.98E-05
13676	0.80	2.85E-03	5266	1.52	5.00E-02	14130	0.83	2.68E-05

A	B	C	A	B	C
7338	-0.60	4.61E-03	9660	-0.50	4.30E-03
7345	0.60	7.23E-04	9665	-1.10	5.98E-07
7348	-1.00	6.61E-03	9668	-0.70	2.21E-04
7349	-1.00	5.83E-03	9669	1.30	2.89E-04
7355	-0.80	1.40E-07	9670	0.70	9.47E-05
7357	0.80	6.45E-07	9671	0.60	4.05E-03
7362	-0.70	4.28E-03	9672	-0.90	5.31E-07
7370	-1.20	9.95E-04	9676	0.60	2.14E-04
7372	-0.60	2.26E-03	9680	0.70	4.45E-06
7373	-0.50	2.16E-03	9685	-0.70	5.29E-03
7374	0.70	3.28E-06	9687	-0.60	7.27E-04
7386	-0.60	2.41E-04	9690	-0.90	1.17E-03
7388	-0.70	7.81E-05	9698	0.50	2.88E-03
7403	-0.90	3.03E-03	9699	-0.80	2.10E-04
7404	-0.90	2.15E-03	9700	0.60	8.30E-04
7406	0.70	1.74E-03	9703	0.70	1.47E-04
7412	-0.80	2.66E-03	9708	0.70	3.83E-04
7415	0.60	8.51E-03	9711	-0.70	1.11E-06
7416	-0.70	5.49E-04	9716	0.60	4.86E-04
7417	0.60	3.64E-03	9718	-0.60	2.14E-03
7424	1.20	3.33E-09	9719	-0.50	2.48E-03
7429	0.60	8.94E-04	9722	-0.80	2.99E-04
7430	-0.70	4.46E-05	9725	-1.00	2.47E-06
7431	0.60	2.10E-03	9730	-1.30	9.29E-07
7434	0.90	3.78E-09	9736	-0.70	2.43E-04
7437	0.80	7.22E-07	9746	0.90	4.99E-06
7448	-0.80	4.46E-06	9747	-1.80	3.50E-06
7453	-0.80	7.94E-05	9749	0.50	5.26E-03
7460	1.30	2.03E-13	9761	0.60	5.33E-04
7463	-0.50	7.09E-03	9765	0.60	1.98E-04
7468	1.10	1.66E-10	9767	-1.70	6.56E-03
7472	0.70	7.80E-04	9769	0.80	3.10E-03
7490	-0.50	5.59E-04	9774	-0.70	2.76E-04
7493	0.70	9.98E-05	9782	-0.50	4.52E-03
7497	0.80	3.32E-07	9810	-0.90	6.01E-06
7500	1.10	1.52E-03	9813	0.60	2.85E-04
7502	-0.60	6.48E-04	9825	-0.80	4.41E-04
7506	-0.50	6.01E-03	9833	-1.20	4.72E-04
7515	-1.50	1.11E-08	9847	0.60	9.69E-04
7516	-1.40	2.10E-08	9859	-0.60	1.39E-03

7520	0.80	5.35E-06	9863	-1.00	2.29E-05
7524	-0.80	2.31E-05	9866	-0.80	2.94E-05
7525	-0.80	3.98E-05	9867	-1.00	1.28E-07
7536	0.90	3.32E-03	9868	-0.60	2.34E-03
7543	-0.50	9.62E-03	9869	-1.10	3.68E-05
7547	-0.60	3.75E-04	9892	-0.70	3.53E-03
7548	-1.40	5.69E-14	9915	0.80	3.72E-04
7549	-1.00	3.98E-08	9917	-1.30	2.78E-07
7553	1.40	7.62E-06	9921	0.80	2.25E-04
7559	0.80	5.11E-05	9924	0.50	3.63E-03
7560	1.20	4.70E-13	9925	0.70	2.82E-05
7563	-0.80	7.08E-03	9945	-0.80	1.97E-06
7569	0.90	4.93E-08	9946	1.40	5.43E-16
7570	-1.30	1.92E-14	9950	-0.80	3.12E-05
7571	0.80	6.78E-11	9952	0.70	1.25E-04
7578	-0.60	1.78E-03	9957	-1.30	5.82E-10
7579	-0.80	5.41E-05	9959	0.70	4.45E-06
7588	-0.50	4.54E-03	9961	1.10	1.18E-11
7591	-0.90	4.25E-03	9964	0.60	2.85E-03
7606	0.50	1.79E-03	9976	0.50	5.17E-03
7611	-0.60	2.53E-04	9987	-0.60	2.02E-03
7619	0.80	2.83E-06	9988	1.20	3.59E-03
7621	0.50	9.12E-03	9993	-0.40	3.50E-04
7629	0.80	2.78E-03	9995	1.00	5.45E-10
7639	-0.60	5.83E-04	10003	0.60	3.65E-04
7642	-0.80	3.79E-07	10010	-0.90	9.61E-07
7643	0.70	2.83E-05	10011	-0.70	3.27E-04
7644	-0.70	8.56E-06	10020	0.50	2.20E-03
7647	-1.00	5.96E-03	10027	0.70	4.27E-05
7648	-1.30	1.25E-03	10044	0.70	1.64E-05
7656	0.50	1.16E-03	10059	-0.70	5.48E-05
7657	0.60	3.29E-04	10062	-0.60	6.46E-04
7658	-2.10	1.50E-04	10066	-0.80	4.03E-06
7659	-0.90	6.40E-05	10077	-0.50	1.27E-04
7660	1.10	1.74E-09	10079	0.80	9.28E-04
7665	0.60	2.65E-04	10084	0.70	5.38E-04
7666	-0.80	1.05E-05	10087	-0.60	1.25E-03
7672	0.50	1.97E-03	10092	-0.60	1.77E-03
7676	-0.80	5.66E-04	10095	0.70	9.32E-07
7689	1.10	4.59E-10	10102	0.50	8.02E-03
7690	-0.70	7.17E-05	10110	0.50	2.83E-03
7691	-0.70	1.92E-05	10114	1.00	3.81E-05

7693	-0.70	2.02E-03	10117	-0.70	1.06E-04
7701	-0.80	5.38E-06	10124	-1.10	1.39E-09
7708	-1.00	1.08E-08	10132	0.70	3.59E-04
7721	-1.00	3.42E-04	10142	-0.70	5.75E-03
7722	-1.70	9.15E-06	10144	-0.40	7.49E-03
7725	0.50	1.94E-03	10148	-0.90	3.45E-06
7729	0.90	8.65E-07	10160	0.90	2.47E-08
7730	-0.50	9.34E-03	10161	-0.70	5.07E-03
7737	-0.60	3.14E-04	10162	-1.00	1.16E-08
7738	0.50	2.03E-03	10163	0.90	1.34E-06
7745	0.70	1.99E-05	10176	0.60	7.11E-04
7746	1.20	4.89E-05	10177	1.20	1.25E-11
7747	0.70	7.22E-05	10183	-2.10	1.62E-03
7753	0.60	2.08E-03	10187	-0.50	1.28E-03
7754	0.50	9.96E-04	10195	0.80	3.69E-04
7755	0.50	8.21E-05	10198	0.50	4.47E-03
7761	0.40	9.60E-03	10200	1.10	1.07E-10
7770	1.00	4.16E-06	10208	0.50	6.90E-03
7774	0.70	2.39E-04	10212	-0.90	1.45E-04
7777	-0.80	1.52E-05	10226	0.70	8.41E-06
7784	0.60	4.67E-03	10268	-0.50	5.36E-03
7789	0.50	2.83E-03	10272	0.60	9.16E-03
7790	0.50	5.54E-03	10286	-0.70	7.61E-04
7795	-0.60	5.75E-03	10289	-1.00	7.61E-05
7804	0.70	1.57E-04	10296	-0.50	7.48E-03
7808	-1.50	6.78E-03	10298	1.10	1.36E-04
7810	-0.60	1.99E-03	10299	0.70	7.34E-04
7816	-0.50	6.42E-03	10305	-0.70	2.55E-04
7822	-1.00	7.15E-08	10307	-1.30	4.22E-03
7826	0.90	5.94E-07	10311	-2.00	1.41E-04
7828	-0.80	1.58E-03	10315	-0.70	6.67E-03
7854	-1.30	1.64E-03	10317	-0.60	2.75E-03
7860	-1.30	5.17E-07	10320	0.50	9.98E-03
7863	0.70	2.06E-05	10333	1.10	8.19E-12
7871	1.10	7.50E-10	10335	0.80	1.39E-05
7873	-0.50	4.66E-03	10341	-0.60	1.78E-03
7874	-0.50	9.89E-03	10343	0.80	9.02E-06
7879	-0.90	3.00E-05	10357	0.60	3.07E-03
7888	0.60	8.51E-04	10370	0.60	2.40E-04
7889	-0.60	1.08E-04	10373	-0.80	2.47E-05
7891	-0.60	2.45E-03	10387	-0.70	4.44E-05
7900	-1.10	5.28E-05	10391	0.70	5.19E-04

7902	-0.60	4.32E-05
7927	0.60	7.50E-04
7932	0.60	5.14E-04
7937	0.60	1.35E-04
7941	0.60	1.38E-03
7950	-0.90	2.38E-06
7953	0.50	2.35E-03
7954	-0.90	2.94E-03
7956	-1.30	1.04E-07
7965	0.80	7.33E-06
7966	-0.80	4.08E-05
7974	0.90	6.36E-05
7978	-1.00	5.69E-03
7982	0.80	1.50E-06
8008	-0.90	2.56E-05
8009	-0.90	1.75E-06
8012	-1.00	2.02E-03
8018	0.80	4.21E-04
8024	-0.60	2.29E-03
8025	-2.00	1.19E-09
8026	0.70	2.44E-03
8032	-0.80	2.40E-06
8039	-0.50	3.82E-03
8040	1.20	2.88E-09
8044	0.40	6.74E-04
8046	1.00	4.31E-07
8048	-0.60	4.39E-03
8064	-0.70	5.92E-04
8075	-0.50	3.61E-03
8083	-0.50	2.44E-03
8084	0.60	3.95E-04
8089	0.80	1.78E-03
8090	0.90	1.00E-06
8102	-0.50	5.95E-03
8105	1.00	5.96E-07
8108	0.50	1.64E-03
8109	0.50	3.50E-03
8110	-1.20	1.33E-04
8111	-0.60	1.77E-03
8127	1.00	3.10E-11
8133	-0.70	3.14E-04
8142	-0.50	4.89E-03
8143	-0.50	5.30E-03
10392	0.60	2.40E-03
10396	-1.10	5.00E-05
10402	-0.80	1.72E-06
10409	0.60	6.89E-04
10418	0.60	1.41E-03
10422	0.90	3.58E-05
10423	1.00	2.17E-07
10426	-0.70	1.34E-04
10427	-0.90	5.80E-03
10438	0.70	1.44E-05
10446	-0.80	8.26E-03
10448	-0.70	3.91E-05
10454	0.70	2.78E-05
10461	-0.70	5.47E-03
10464	0.80	1.46E-03
10480	-0.60	1.83E-03
10487	-1.10	6.65E-07
10492	0.50	8.58E-03
10494	0.70	2.26E-07
10505	0.70	6.19E-06
10506	-0.60	6.92E-03
10512	0.60	5.29E-03
10520	-2.10	1.23E-06
10538	0.60	2.38E-03
10543	-0.80	4.54E-04
10547	-1.00	6.66E-05
10548	0.70	9.04E-05
10549	-0.60	4.89E-03
10561	-0.70	7.80E-03
10565	-0.70	6.80E-03
10576	-0.80	3.44E-06
10593	0.70	3.43E-05
10599	-0.70	8.47E-03
10600	0.80	2.60E-04
10601	-0.90	2.10E-05
10604	-1.40	4.53E-08
10608	-0.50	5.32E-03
10613	-1.00	8.33E-05
10619	-1.40	4.91E-03
10625	0.50	4.10E-03
10630	0.60	4.32E-03
10634	1.00	9.90E-08
10649	0.70	5.19E-05

8145	-0.80	4.15E-06	10660	-1.10	6.01E-03
8146	0.60	3.49E-04	10666	-0.90	1.78E-03
8147	1.20	1.93E-12	10668	-1.30	1.36E-04
8149	0.70	4.73E-06	10688	-1.30	1.15E-12
8151	-0.60	4.49E-03	10706	-0.90	1.13E-03
8153	-1.00	4.32E-05	10711	-0.50	2.60E-03
8155	-1.10	9.28E-03	10724	-1.70	4.85E-06
8161	0.50	3.35E-03	10730	-0.80	1.78E-05
8163	-1.30	1.91E-14	10731	-0.80	5.67E-03
8164	1.10	3.92E-03	10733	0.60	2.29E-03
8166	0.90	7.21E-07	10734	0.90	3.14E-07
8168	-0.70	2.50E-05	10738	-0.90	1.90E-03
8184	-0.80	7.47E-05	10752	-0.50	7.39E-03
8192	1.10	4.41E-09	10758	-1.30	1.88E-04
8194	-1.10	2.39E-04	10760	-0.60	3.95E-04
8202	1.10	1.26E-03	10763	-1.10	8.19E-03
8206	-0.60	1.54E-04	10774	0.80	1.61E-03
8219	1.00	1.18E-06	10775	-0.60	1.03E-03
8220	-1.20	3.59E-05	10778	1.10	1.03E-10
8233	-0.70	2.84E-05	10802	0.70	3.49E-03
8235	-0.80	9.64E-06	10807	-0.80	3.55E-06
8240	-0.50	8.67E-03	10818	-0.50	2.70E-03
8243	-0.80	4.47E-04	10828	-0.50	9.58E-03
8259	0.50	1.92E-04	10837	0.50	9.48E-03
8260	0.80	5.13E-07	10838	0.40	8.16E-03
8261	1.30	9.66E-15	10840	-0.70	5.61E-04
8264	-1.10	1.73E-04	10853	-0.50	5.71E-03
8272	0.70	1.13E-03	10864	0.60	7.42E-04
8275	-1.00	7.00E-04	10872	-1.30	1.31E-08
8276	-0.70	2.30E-05	10883	-0.70	4.45E-05
8277	-1.00	4.62E-03	10891	-0.70	2.57E-04
8280	-0.70	9.86E-05	10908	1.00	7.33E-09
8287	-0.60	7.94E-05	10911	-0.70	3.34E-05
8293	-0.60	3.10E-04	10913	-0.50	1.48E-03
8308	1.00	1.58E-04	10917	-0.90	9.36E-05
8315	-0.60	2.77E-03	10923	-0.90	2.89E-03
8318	-0.80	9.40E-07	10924	1.00	1.85E-08
8321	-1.10	1.46E-04	10926	-1.50	1.27E-03
8333	0.70	1.01E-04	10947	-1.10	7.72E-04
8334	0.70	4.70E-04	10950	0.80	3.94E-05
8337	-0.70	1.60E-04	10965	1.00	4.43E-08
8338	0.50	9.74E-03	10972	0.90	8.14E-04

8340	-0.80	2.06E-03	10977	-0.90	9.43E-06
8341	0.60	1.59E-03	10980	1.10	3.98E-11
8348	0.60	3.32E-04	10985	-1.00	8.73E-09
8351	0.90	1.71E-08	10991	0.90	3.90E-06
8353	-0.50	1.04E-03	10992	-0.70	2.00E-03
8358	-0.50	8.40E-03	11000	-1.20	2.28E-04
8359	0.80	1.75E-05	11012	-1.00	1.27E-07
8363	-0.70	7.14E-03	11015	1.10	2.87E-04
8365	-1.00	8.33E-07	11032	0.60	1.66E-03
8366	-1.00	8.28E-07	11065	0.60	4.59E-04
8368	-0.60	4.57E-04	11076	-0.70	3.54E-03
8372	0.60	3.91E-03	11088	0.70	4.17E-05
8377	0.60	1.11E-03	11095	0.80	3.47E-04
8386	-0.50	7.83E-03	11096	0.90	6.84E-04
8387	0.60	7.28E-03	11097	-1.10	1.27E-07
8388	0.60	4.49E-04	11102	0.80	5.80E-07
8391	-0.40	8.82E-03	11103	0.60	6.67E-04
8395	-0.50	1.39E-03	11108	-0.60	1.21E-03
8398	0.80	4.93E-06	11116	0.80	3.81E-04
8411	-0.60	1.64E-03	11139	-0.60	2.99E-03
8412	-0.60	1.56E-03	11151	0.90	1.81E-04
8413	0.50	3.87E-03	11157	-0.70	7.92E-04
8419	1.00	3.59E-04	11159	0.80	3.01E-06
8420	0.50	4.53E-03	11172	-0.90	8.12E-07
8421	-0.80	9.05E-05	11173	0.60	3.62E-04
8423	-0.70	1.02E-04	11180	-0.60	7.90E-03
8425	-0.70	3.63E-04	11181	-1.00	3.61E-03
8433	-1.20	9.33E-08	11184	1.10	9.59E-09
8436	-0.60	3.93E-03	11191	-0.90	1.40E-07
8451	-0.90	1.68E-05	11201	-0.80	6.14E-04
8454	-0.80	5.13E-05	11206	-0.90	8.23E-07
8460	-0.60	1.34E-03	11210	1.20	5.09E-07
8466	0.80	3.51E-06	11213	-1.20	3.82E-04
8467	0.50	1.85E-03	11219	-0.90	1.50E-05
8484	-0.80	3.21E-03	11224	0.90	4.16E-08
8485	0.50	2.64E-03	11244	0.50	1.86E-03
8488	0.50	3.62E-04	11249	-0.50	3.07E-03
8501	0.80	8.85E-04	11251	0.60	2.88E-04
8504	0.70	3.79E-05	11252	0.50	8.95E-03
8512	-1.60	2.19E-03	11277	0.40	9.69E-03
8529	-1.10	7.68E-04	11289	0.60	4.43E-03
8538	-0.60	1.67E-03	11302	1.20	3.53E-10

8539	0.70	2.92E-05	11306	-0.70	2.41E-05
8545	0.50	7.93E-03	11311	-0.50	3.75E-03
8551	0.60	3.57E-03	11315	0.70	6.42E-04
8557	-0.70	3.43E-03	11316	-0.70	1.65E-03
8560	0.50	3.39E-03	11321	-0.80	4.23E-05
8561	0.60	8.29E-03	11337	0.60	1.87E-04
8562	-0.80	1.75E-05	11343	0.60	5.11E-04
8574	0.50	3.23E-03	11344	0.80	3.86E-06
8576	-1.00	4.29E-06	11359	-0.80	5.40E-06
8579	-0.90	4.60E-03	11382	-0.50	9.74E-03
8601	-0.60	4.02E-03	11386	-1.20	4.98E-04
8604	-0.50	4.96E-03	11390	-1.20	9.64E-08
8609	-1.20	2.38E-05	11408	-0.80	4.67E-05
8611	-0.90	3.20E-08	11410	-0.50	5.89E-03
8613	-0.90	2.45E-05	11413	0.80	5.25E-03
8617	0.80	3.00E-04	11415	-1.90	8.94E-05
8621	-0.90	9.04E-03	11417	0.60	3.05E-04
8630	1.10	5.50E-08	11436	0.90	1.37E-03
8647	-0.80	6.33E-05	11444	0.60	9.66E-04
8656	0.60	5.87E-04	11450	-0.60	2.35E-03
8658	0.70	4.23E-03	11456	-0.50	8.60E-03
8664	0.80	3.55E-04	11458	0.60	6.89E-03
8675	-0.80	1.74E-05	11462	1.40	2.19E-11
8676	-0.50	2.53E-03	11468	-1.00	4.08E-03
8679	0.50	7.50E-04	11471	0.70	1.45E-05
8683	-1.20	3.61E-07	11485	-1.00	1.38E-03
8690	-1.00	2.19E-05	11486	-0.60	9.60E-04
8693	-1.30	1.49E-07	11489	1.30	7.81E-06
8699	0.70	5.29E-06	11495	0.90	6.61E-08
8710	-1.70	4.57E-08	11497	0.80	3.04E-05
8721	0.40	3.88E-03	11499	0.90	3.48E-06
8724	0.80	1.29E-04	11500	1.00	1.00E-04
8728	-1.40	1.14E-08	11520	-1.40	3.91E-04
8731	0.70	1.28E-05	11547	1.10	4.65E-08
8733	-0.50	8.10E-03	11553	1.10	1.45E-12
8747	0.50	2.57E-03	11555	-0.70	4.92E-04
8752	0.80	1.98E-03	11556	0.70	3.57E-04
8757	-0.50	5.96E-03	11574	-0.90	7.55E-03
8767	-0.80	3.40E-04	11591	0.60	6.25E-04
8771	0.80	1.22E-05	11594	0.70	4.90E-05
8773	-0.50	1.89E-03	11601	-0.80	3.36E-06
8786	-0.50	5.12E-03	11603	0.60	2.42E-03
8795	-0.50	7.42E-04	11606	-0.80	3.61E-04

8797	0.40	2.49E-03	11610	0.50	9.05E-03
8800	0.90	5.26E-04	11612	0.50	1.98E-03
8801	-0.60	4.24E-03	11623	0.50	3.84E-03
8803	0.80	7.36E-03	11631	0.50	1.37E-03
8804	0.50	9.43E-04	11684	1.20	1.83E-08
8805	-0.60	4.06E-04	11686	0.80	1.83E-07
8815	0.60	1.21E-03	11701	-0.70	8.75E-04
8820	-0.70	4.75E-05	11705	0.70	1.77E-05
8822	-0.60	3.21E-03	11721	0.60	1.18E-03
8834	0.60	3.57E-03	11726	0.60	5.41E-04
8839	-0.90	1.88E-03	11748	-0.70	5.69E-03
8841	-0.60	3.99E-03	11756	0.50	1.33E-03
8847	-0.50	5.83E-03	11760	-0.70	1.68E-04
8848	-0.90	1.58E-06	11769	-0.50	6.28E-03
8854	-1.30	4.03E-03	11771	0.50	1.78E-03
8855	-0.50	5.96E-03	11772	0.80	3.34E-05
8865	-0.80	1.39E-05	11776	-0.70	2.75E-04
8867	0.60	2.14E-04	11788	-1.60	2.67E-04
8875	0.80	5.56E-06	11815	0.60	1.73E-03
8880	-0.50	9.22E-03	11816	0.80	8.60E-04
8898	-0.60	2.31E-04	11833	-0.60	6.14E-03
8899	-0.50	1.55E-03	11844	0.60	2.87E-04
8904	-0.70	5.79E-03	11847	0.70	2.06E-04
8908	-1.00	8.22E-09	11856	0.60	1.03E-03
8910	0.90	1.48E-07	11862	1.00	1.33E-03
8911	0.50	4.28E-03	11864	-0.50	4.01E-03
8915	-0.60	2.83E-03	11866	-0.50	8.16E-03
8916	-0.60	2.19E-03	11887	-0.60	1.28E-03
8922	-0.70	7.03E-06	11895	1.00	2.03E-03
8928	-0.60	2.63E-03	11896	-1.00	1.27E-07
8930	0.70	2.57E-04	11898	-0.90	5.42E-07
8938	0.60	3.22E-05	11900	-1.00	1.74E-04
8941	-1.10	4.35E-03	11902	-1.80	5.22E-05
8952	0.90	2.04E-06	11903	0.60	6.74E-03
8954	0.70	9.28E-06	11908	0.80	3.79E-06
8955	0.60	1.11E-03	11915	-0.60	1.05E-03
8957	0.70	2.51E-04	11929	0.40	2.62E-03
8960	-0.70	5.31E-05	11934	-0.50	7.63E-03
8970	-0.40	9.74E-03	11940	-0.80	2.03E-05
8971	0.50	5.91E-04	11947	-0.70	2.83E-04
8981	-1.30	4.11E-11	11959	0.60	9.00E-03
8985	-1.80	2.74E-03	11961	-0.80	1.18E-05

8994	0.60	7.56E-03	11998	0.70	1.16E-03
8995	0.60	1.70E-04	12010	0.60	2.35E-03
8997	0.90	1.28E-07	12032	1.00	8.79E-09
9011	0.70	5.55E-05	12036	0.50	1.80E-03
9015	-1.00	2.81E-03	12060	1.00	3.54E-06
9027	-0.60	2.06E-03	12063	0.60	4.37E-03
9029	0.80	6.20E-04	12064	0.50	4.69E-03
9030	0.70	3.99E-05	12066	0.80	3.43E-06
9037	0.40	9.16E-03	12073	-0.70	3.77E-03
9040	-0.70	2.94E-04	12076	0.50	3.09E-03
9046	-0.80	1.36E-03	12121	1.10	4.07E-08
9050	-1.20	2.80E-06	12131	-0.90	7.15E-03
9052	1.10	1.90E-10	12153	0.50	5.66E-03
9054	-0.70	4.43E-03	12157	0.80	5.60E-03
9055	-1.10	7.51E-07	12166	-0.80	1.65E-03
9057	-0.50	8.37E-04	12168	0.70	2.13E-04
9063	-0.70	9.03E-05	12174	-0.90	4.52E-08
9064	-0.70	7.33E-05	12186	0.70	4.83E-05
9068	0.70	1.56E-04	12187	-0.60	7.56E-04
9069	0.90	1.17E-03	12200	0.70	9.68E-05
9075	-1.20	1.62E-03	12207	-1.00	2.15E-03
9081	0.60	9.90E-04	12230	0.80	2.82E-03
9082	-0.50	3.53E-03	12232	0.90	6.76E-08
9084	-1.20	1.07E-08	12240	0.50	4.00E-03
9087	-0.80	1.20E-06	12242	-0.80	1.77E-06
9099	-1.00	3.25E-04	12275	0.70	7.13E-05
9102	0.50	1.03E-03	12280	0.50	4.87E-03
9110	-1.00	2.72E-03	12288	0.50	1.81E-03
9113	-1.20	7.76E-06	12291	0.80	1.07E-06
9125	-1.70	1.62E-06	12292	0.60	1.55E-04
9127	-0.60	4.00E-04	12304	-1.10	1.05E-09
9129	1.30	1.19E-15	12310	1.30	6.38E-07
9132	-0.70	2.39E-05	12322	0.40	4.67E-03
9142	0.50	3.79E-03	12326	0.70	3.38E-05
9150	0.80	1.71E-06	12327	-0.90	1.65E-04
9159	0.50	1.86E-04	12329	0.60	5.46E-04
9161	-0.60	3.19E-04	12330	0.50	4.62E-03
9166	-0.60	1.31E-03	12334	-0.60	3.39E-03
9181	0.60	6.20E-03	12336	1.30	1.89E-14
9183	-1.30	3.12E-14	12343	-1.00	2.02E-03
9188	-0.60	1.34E-03	12356	-0.70	5.36E-04
9194	0.60	1.14E-03	12358	-0.90	1.07E-07

9196	-0.90	3.57E-05	12368	0.90	1.03E-08
9200	-1.00	3.33E-07	12377	-0.60	2.34E-03
9209	0.70	7.47E-04	12386	-0.70	1.22E-03
9213	0.60	1.75E-03	12393	0.80	7.90E-07
9216	-0.70	4.87E-05	12394	0.50	4.13E-03
9225	0.80	1.08E-11	12406	-0.70	1.32E-03
9228	0.60	1.32E-04	12411	0.90	4.03E-05
9237	-0.70	1.26E-05	12423	-0.70	2.99E-04
9241	-0.80	9.14E-05	12458	0.50	1.35E-03
9248	0.60	1.25E-03	12462	1.10	1.82E-11
9251	-0.70	2.56E-03	12465	-1.30	1.65E-04
9260	-0.70	1.82E-04	12487	-1.00	4.67E-03
9262	0.60	5.05E-03	12491	0.50	1.20E-03
9264	0.70	3.36E-05	12498	0.40	7.04E-03
9265	0.70	5.56E-03	12509	-1.10	1.29E-04
9269	-1.00	2.38E-07	12510	-0.70	3.89E-03
9275	-0.50	8.63E-03	12519	-0.60	1.51E-03
9281	-0.90	4.98E-06	12521	0.90	5.99E-08
9288	-0.80	1.16E-06	12524	1.20	1.80E-14
9290	-0.80	1.72E-05	12529	0.50	2.50E-03
9291	1.20	4.85E-05	12535	1.00	7.05E-05
9294	-0.50	9.84E-03	12536	-0.50	6.11E-03
9300	0.70	6.54E-05	12539	-0.50	3.28E-03
9306	0.60	6.47E-03	12540	1.10	1.01E-05
9307	0.60	3.87E-03	12556	-0.40	4.72E-04
9310	0.70	7.78E-05	12557	-1.10	6.40E-06
9311	-0.80	2.06E-05	12565	0.90	2.62E-03
9314	0.60	4.37E-03	12571	-0.60	6.50E-03
9319	0.50	2.48E-03	12581	0.70	3.69E-04
9327	-1.00	3.80E-04	12584	-0.50	7.90E-03
9329	-0.60	7.91E-05	12589	-0.60	1.06E-03
9347	-0.90	2.57E-07	12590	-1.30	1.50E-04
9349	-0.70	2.14E-03	12591	-0.90	2.64E-06
9352	0.70	2.47E-04	12592	0.70	4.07E-04
9353	0.70	2.63E-04	12615	0.60	9.43E-05
9355	1.00	1.80E-10	12620	0.60	1.80E-03
9356	-0.60	2.01E-03	12630	0.60	6.64E-04
9357	-0.50	8.06E-03	12644	-0.70	2.97E-04
9364	0.80	6.63E-04	12652	-1.00	5.34E-03
9367	-0.70	8.01E-03	12655	-0.60	1.21E-03
9368	0.50	2.28E-03	12656	-1.30	6.26E-09
9376	0.90	4.16E-06	12657	1.30	3.71E-11
9386	-0.80	1.47E-05	12665	0.60	3.22E-03

9394	-0.60	8.54E-03	12667	1.20	7.68E-06
9402	-1.20	5.44E-08	12673	-0.90	3.62E-07
9406	-0.40	5.48E-04	12674	0.80	2.13E-05
9408	-0.50	8.55E-03	12680	-0.90	4.07E-03
9444	0.80	9.74E-03	12682	0.60	6.10E-03
9445	-0.80	1.79E-03	12685	-0.60	9.77E-03
9447	-1.00	1.87E-03	12687	0.70	2.66E-03
9450	0.90	1.30E-03	12693	0.60	3.60E-04
9452	-0.60	7.41E-03	12702	-1.30	1.04E-03
9460	0.50	1.97E-03	12720	0.60	7.82E-03
9462	-0.50	6.67E-03	12725	-1.10	8.05E-07
9463	0.70	1.29E-04	12728	-1.10	2.08E-04
9464	-0.80	2.57E-04	12773	-0.70	3.79E-03
9468	-0.60	1.83E-03	12786	1.00	8.62E-09
9476	-0.70	5.56E-05	12788	-1.10	1.72E-03
9477	0.60	3.40E-04	12795	0.70	9.04E-06
9486	-1.20	5.46E-03	12798	-0.50	1.59E-03
9493	-0.50	4.23E-03	12799	0.60	2.55E-04
9497	-0.70	2.28E-03	12827	-1.20	8.61E-04
9500	-0.60	1.34E-03	12837	0.80	6.35E-06
9506	0.80	1.20E-03	12840	-1.70	2.14E-05
9507	0.90	7.33E-08	12847	-1.10	3.75E-05
9508	1.00	2.06E-09	12856	0.70	4.13E-05
9516	-0.70	4.05E-03	12865	1.00	2.13E-03
14476	0.80	2.04E-05	15157	-1.64	5.00E-02
14515	-0.60	4.49E-04	2357	0.60	3.23E-03
14523	0.43	9.67E-03	2369	-0.60	9.82E-04
14524	-1.27	2.28E-05	2371	-0.80	2.16E-03
14539	-0.72	6.87E-03	2390	-0.50	9.07E-03
14555	0.61	3.30E-04	2391	-0.50	7.78E-03
14602	-0.43	2.45E-03	2394	-0.80	1.68E-05
14612	-0.86	3.64E-07	2400	0.50	5.49E-03
14616	-0.74	8.06E-03	2404	-0.60	2.31E-04
14626	0.57	7.25E-04	2418	-0.60	1.96E-03
14628	-0.48	1.90E-03	2422	-0.60	1.74E-03
14631	-0.91	2.40E-07	2424	-1.00	2.37E-03
14649	0.44	9.63E-03	2427	-0.70	2.95E-04
14301	0.53	3.69E-04	13918	1.39	5.00E-02
14306	0.58	1.26E-03	13969	1.79	5.00E-02
14307	0.67	9.38E-05	14122	0.27	5.00E-02
14309	0.56	7.93E-04	14199	4.22	5.00E-02
14330	-0.78	1.43E-05	14218	0.88	5.00E-02

14334	-0.53	2.30E-03	14245	4.27	5.00E-02
14342	0.79	2.54E-04	14257	85.91	5.00E-02
14344	0.45	9.46E-03	14354	2.96	5.00E-02
14369	0.93	2.63E-03	14467	3.60	5.00E-02
14373	-0.54	7.13E-03	14486	-1.99	5.00E-02
14377	1.09	4.61E-11	14570	2.45	5.00E-02
14379	-1.72	2.17E-05	14604	-0.76	5.00E-02
14381	-1.22	4.72E-05	14711	0.89	5.00E-02
14382	0.48	7.06E-03	14764	-2.32	5.00E-02
14396	1.00	8.87E-04	14813	2.25	5.00E-02
14397	-0.58	4.63E-03	14945	-1.31	5.00E-02
14405	0.90	6.04E-05	14982	0.32	5.00E-02
14415	-0.71	9.99E-05	14994	2.49	5.00E-02
14448	-0.63	3.05E-03	15025	3.43	5.00E-02
14458	-1.08	9.93E-07	15027	2.09	5.00E-02
14460	0.71	3.61E-05	15106	0.40	5.00E-02
14469	-0.63	1.40E-03	15129	1.52	5.00E-02
13793	-1.10	6.12E-06	9412	-1.07	5.00E-02
13795	0.80	3.77E-06	9416	0.49	5.00E-02
13798	-1.20	4.08E-07	9456	3.65	5.00E-02
13805	0.80	5.23E-07	9729	0.23	5.00E-02
13827	0.70	1.11E-04	10191	-0.30	5.00E-02
13838	1.10	1.20E-09	10344	1.15	5.00E-02
13839	-0.70	5.63E-05	10437	0.52	5.00E-02
13840	-0.80	9.26E-04	10654	-4.19	5.00E-02
13860	-1.00	1.43E-03	10679	1.71	5.00E-02
13869	0.70	5.65E-04	10691	-2.08	5.00E-02
13878	-0.55	8.97E-03	10776	-1.84	5.00E-02
13882	1.06	2.51E-05	10795	-1.69	5.00E-02
13885	0.67	2.46E-03	10909	-0.62	5.00E-02
13891	-0.93	1.74E-03	11067	1.99	5.00E-02
13903	-0.61	3.80E-03	11128	2.11	5.00E-02
13926	-0.93	9.36E-03	11175	-1.32	5.00E-02
13927	0.94	8.22E-06	11220	92.62	5.00E-02
13940	-0.50	3.86E-03	11297	-2.36	5.00E-02
13951	-0.55	1.26E-03	11438	-3.26	5.00E-02
13955	0.77	2.46E-05	11534	1.90	5.00E-02
13971	1.03	2.16E-07	11543	1.63	5.00E-02
13984	-0.90	1.52E-07	11625	6.74	5.00E-02
11697	0.24	5.00E-02	13482	-0.24	5.00E-02
11723	-1.59	5.00E-02	13596	-1.77	5.00E-02
11810	-2.89	5.00E-02	13691	-1.81	5.00E-02

12041	1.10	5.00E-02
12074	2.59	5.00E-02
12494	-3.16	5.00E-02
12512	2.46	5.00E-02
12653	-5.55	5.00E-02
12731	2.80	5.00E-02
12809	2.13	5.00E-02
12839	2.56	5.00E-02
12854	0.57	5.00E-02
13019	-0.31	5.00E-02
13073	-5.38	5.00E-02
13082	1.17	5.00E-02
13168	0.90	5.00E-02
13208	-3.28	5.00E-02
13262	5.89	5.00E-02
13350	2.96	5.00E-02
13417	3.27	5.00E-02
13431	-2.02	5.00E-02
13453	-1.12	5.00E-02
13469	-2.23	5.00E-02
13478	0.31	5.00E-02
5270	-1.72	5.00E-02
5556	0.36	5.00E-02
5569	0.44	5.00E-02
5683	-0.31	5.00E-02
6164	0.50	5.00E-02
6525	4.22	5.00E-02
6527	-0.30	5.00E-02
6543	-0.35	5.00E-02
6853	1.64	5.00E-02
7395	1.47	5.00E-02
8069	-2.64	5.00E-02
8638	-87.58	5.00E-02
13715	-9.60	5.00E-02
13883	1.35	5.00E-02
14151	-0.54	5.15E-03
14170	1.14	9.40E-12
14178	-0.89	3.34E-10
14191	-0.54	9.54E-03
14195	-0.80	2.56E-04
14206	0.74	8.70E-04
14222	-0.93	6.86E-03
14237	-1.04	5.36E-05
14246	-0.75	6.02E-05
14265	-0.88	3.06E-07
14269	0.59	9.92E-03
14295	0.49	7.78E-03
14296	-1.04	3.73E-09
13687	-0.60	3.33E-03
13689	-1.00	1.24E-03
13707	-1.20	1.11E-03
13710	0.50	1.70E-03
13729	0.50	5.48E-03
13733	0.40	7.80E-03
13734	0.90	6.39E-07
13761	-0.50	5.60E-03
13766	-0.70	1.29E-03
13767	-0.50	3.61E-03
13772	0.60	3.01E-04
13783	-0.50	1.95E-03
13787	-0.50	5.17E-03
9218	0.21	5.00E-02

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TABLE 12 - GENETIC MARKERS FOR CALVING EASE

A	B	C	A	B	C	A	B	C
2	-0.90	3.60E-03	478	-0.50	1.15E-03	1031	0.60	2.27E-03
17	0.50	6.49E-04	502	0.50	1.11E-04	1035	0.60	1.04E-04
26	-0.60	5.55E-05	505	-0.40	6.76E-03	1043	-0.50	6.34E-03
56	0.50	1.06E-03	507	-0.70	1.98E-05	1056	0.50	2.97E-04
63	0.60	8.26E-06	509	-0.40	4.86E-03	1063	-0.40	3.59E-03
66	-0.40	4.80E-03	517	0.50	2.96E-04	1084	-0.50	1.60E-03
78	0.60	8.83E-04	526	-0.40	7.88E-03	1085	0.50	6.85E-03
88	0.90	2.95E-03	539	0.50	1.79E-04	1089	0.40	4.31E-03
111	0.60	1.13E-03	543	-0.80	2.61E-05	1100	0.60	3.98E-04
131	-0.60	1.33E-05	547	-0.70	9.36E-03	1113	0.40	7.64E-03
137	0.60	3.99E-05	565	-0.50	1.75E-03	1123	0.50	1.22E-03
139	-0.50	9.36E-03	582	-0.50	3.98E-04	1144	-0.60	1.22E-04
140	0.40	3.57E-03	620	-0.60	1.65E-05	1149	-0.50	1.29E-03
143	-0.60	2.30E-03	624	0.50	1.16E-03	1151	-0.40	2.67E-03
150	0.50	3.42E-03	629	-0.60	1.48E-03	1154	0.60	1.47E-03
152	-0.60	4.20E-04	633	0.50	1.00E-03	1160	-0.60	9.17E-05
167	0.80	2.28E-07	640	0.50	4.66E-04	1161	0.40	3.27E-03
172	1.30	6.98E-05	649	0.40	3.81E-03	1164	-0.50	7.96E-03
180	0.50	1.87E-03	654	-0.50	5.13E-03	1171	-0.40	5.07E-03
183	-0.40	1.36E-03	660	0.80	3.82E-03	1195	-0.40	2.79E-03
184	-0.50	2.37E-04	664	0.40	8.43E-03	1213	-0.40	8.73E-03
196	0.40	4.65E-03	668	0.50	9.94E-04	1214	-0.50	6.70E-04
201	0.50	2.38E-03	678	0.40	3.28E-03	1243	-0.50	4.81E-03
203	0.40	2.82E-03	681	-0.40	3.82E-03	1261	0.70	3.96E-03
206	-0.60	1.07E-03	688	-0.40	2.32E-03	1276	0.80	8.28E-05
217	-0.70	1.66E-04	691	0.90	4.47E-03	1289	0.90	9.98E-06
244	0.50	1.14E-03	696	0.40	2.35E-03	1311	0.80	4.50E-04
246	0.70	6.16E-04	705	0.30	6.54E-03	1335	0.90	1.30E-03
250	0.50	1.12E-03	708	-1.10	1.54E-03	1363	-0.90	2.60E-03
251	-0.40	2.05E-03	735	0.40	2.76E-03	1366	-0.40	3.12E-03
255	-1.20	3.20E-04	736	-0.40	1.78E-03	1369	-0.50	4.66E-03
270	-0.40	2.42E-03	762	-0.70	2.57E-04	1385	0.40	8.84E-03
274	0.60	5.21E-04	764	0.60	1.32E-05	1393	0.40	2.81E-03
277	0.80	5.64E-04	781	0.70	1.52E-04	1401	0.50	3.03E-04
300	-1.00	6.59E-10	782	0.60	6.49E-04	1448	0.40	3.37E-03
303	-0.60	3.09E-04	785	-0.80	6.15E-04	1450	0.60	4.24E-05
305	0.40	6.52E-03	801	0.80	1.68E-03	1451	-1.10	3.63E-07
309	-0.40	4.33E-03	811	-0.80	2.81E-03	1467	-0.40	5.21E-03
331	0.70	3.03E-06	827	-0.40	3.23E-03	1479	0.50	9.15E-03
333	-0.60	1.30E-05	847	0.40	8.40E-03	1487	-0.50	2.01E-03

335	0.60	2.78E-04	862	-0.60	7.29E-03	1494	0.80	5.77E-04
356	-0.80	1.53E-03	864	-0.80	2.29E-08	1498	0.60	9.91E-05
367	0.50	1.38E-04	865	-0.80	9.04E-05	1502	-0.50	3.18E-04
382	-0.50	4.08E-03	870	-0.50	3.41E-04	1503	0.40	4.40E-03
383	-0.80	7.64E-03	885	0.60	3.82E-03	1505	-0.90	2.82E-05
394	0.60	2.82E-04	888	0.60	3.64E-03	1518	0.70	4.38E-05
395	0.50	4.78E-04	919	-1.00	3.20E-05	1532	0.50	2.58E-03
396	0.60	5.40E-04	922	0.80	3.05E-04	1533	0.40	7.26E-03
404	-0.70	8.67E-04	923	0.80	1.54E-04	1547	0.50	1.59E-04
410	0.40	1.70E-03	934	0.60	7.28E-05	1552	-0.50	1.42E-03
411	0.40	2.58E-03	939	-0.70	2.51E-05	1554	-0.90	1.23E-04
415	0.50	1.06E-03	945	-0.40	3.88E-03	1555	-1.00	5.41E-03
424	0.60	7.13E-03	962	-0.60	7.19E-04	1573	-0.40	7.30E-03
447	0.80	6.20E-07	963	0.90	6.14E-04	1599	-1.00	4.62E-09
450	-0.50	1.50E-03	975	-0.70	2.00E-06	1601	0.50	4.98E-03
451	0.90	2.88E-03	984	-0.40	9.65E-03	1623	0.50	3.65E-04
455	0.40	1.69E-03	994	0.60	7.49E-05	1625	0.40	3.21E-03
457	0.50	9.78E-04	999	-0.40	8.14E-03	1635	0.50	3.72E-04
463	0.50	2.73E-03	1001	-0.60	2.18E-04	1668	0.40	9.05E-03
472	0.50	6.86E-03	1004	0.70	1.87E-04	1677	-0.50	2.78E-03
476	-0.80	1.43E-06	1012	-0.50	3.87E-03	1700	-0.50	1.70E-03
253								
3653	0.50	1.75E-03	1015	0.40	3.73E-03	1717	0.60	4.98E-03
3655	0.70	6.99E-04	1023	0.60	1.32E-04	1722	-0.50	1.29E-03
3667	-0.60	8.24E-04	1024	0.70	4.99E-04	1729	-0.70	1.24E-06
3670	0.50	2.57E-03	4266	0.90	4.19E-03	4797	-0.60	7.26E-05
3675	-1.00	6.73E-04	4272	-0.50	1.86E-03	4807	-0.80	5.01E-06
3709	-0.50	7.59E-03	4284	-0.60	7.10E-04	4808	0.50	1.73E-04
3723	0.60	2.47E-03	4298	0.50	2.63E-03	4813	0.50	4.56E-03
3725	0.50	1.52E-03	4304	-0.90	9.37E-04	4853	-0.40	6.99E-03
3732	0.70	2.00E-06	4305	0.60	1.13E-03	4873	-0.50	1.94E-03
3736	-0.70	7.25E-04	4308	0.70	1.15E-03	4879	0.60	1.89E-05
3743	-0.60	6.81E-04	4316	0.60	6.39E-05	4896	0.60	1.34E-04
3749	0.50	2.91E-03	4327	-0.60	2.49E-03	4919	-1.10	3.61E-04
3752	0.60	5.89E-05	4334	0.50	1.30E-04	4920	0.40	3.74E-03
3753	0.70	2.82E-06	4335	-0.70	6.68E-04	4929	-0.50	5.31E-03
3765	0.50	4.44E-04	4337	-0.40	1.80E-03	4934	-0.50	1.34E-03
3804	-0.40	3.25E-03	4344	-1.00	1.02E-03	4942	0.60	6.47E-05
3805	-0.70	4.59E-06	4350	-0.40	1.75E-03	4943	0.50	5.12E-04
3847	0.40	3.33E-03	4351	0.70	2.56E-06	4951	-0.40	5.63E-03
3859	0.40	1.12E-03	4352	-0.60	1.80E-05	4953	-0.60	7.66E-04
3877	-0.70	3.17E-07	4357	-0.50	7.71E-03	4957	0.40	7.34E-03
3879	0.50	2.44E-03	4363	-0.50	3.97E-04	4966	0.40	6.44E-03

3884	0.40	1.36E-03
3886	-0.60	2.76E-04
3890	1.10	8.72E-07
3915	0.30	3.98E-03
3924	-0.30	5.35E-03
3933	0.40	5.73E-03
3940	-0.40	3.41E-03
3947	0.50	5.47E-04
3975	0.50	1.16E-03
3983	0.40	3.60E-03
3991	0.50	2.55E-03
4002	0.50	2.86E-03
4016	0.70	3.04E-06
4017	0.50	5.07E-04
4025	0.40	6.76E-03
4027	0.40	4.64E-03
4039	-0.40	7.75E-03
4042	-0.50	7.28E-03
4067	0.40	3.51E-03
4076	0.60	7.78E-03
4084	-0.50	7.77E-04
4090	0.40	6.33E-03
4099	-0.60	5.15E-05
4106	-0.40	8.82E-03
4120	-0.40	9.20E-03
4130	0.40	4.71E-03
4135	0.50	6.06E-03
4149	0.40	3.91E-03
4150	0.40	6.94E-03
4154	-0.70	4.22E-04
4155	-0.60	9.77E-05
4164	0.60	1.78E-05
4165	0.60	2.89E-04
4166	0.50	1.83E-04
4176	-0.80	4.05E-06
4188	-0.60	1.15E-04
4197	0.40	4.67E-03
4210	-0.40	5.08E-03
4221	0.40	6.35E-03
4232	-0.50	1.78E-03
4235	0.70	9.78E-03
4243	0.50	2.05E-03

4382	-0.40	7.47E-03
4395	-0.70	7.26E-07
4398	-0.50	3.36E-04
4413	0.40	3.51E-03
4415	0.70	5.92E-07
4443	0.70	3.09E-03
4444	0.70	3.22E-03
4450	-0.60	3.08E-05
4458	-0.40	3.76E-03
4459	0.50	1.80E-03
4460	0.50	1.74E-03
4467	-0.60	2.56E-03
4470	0.50	7.91E-04
4481	0.50	1.46E-03
4482	0.40	9.30E-03
4483	-0.30	5.65E-03
4489	-0.40	5.94E-03
4492	-0.60	1.23E-03
4509	0.50	6.85E-03
4536	-0.40	9.48E-03
4542	0.50	9.02E-05
4545	-0.70	7.34E-06
4549	-0.80	3.25E-04
4554	0.60	6.57E-03
4560	0.60	8.23E-05
4567	0.60	5.57E-03
4611	0.50	3.74E-04
4619	0.60	4.81E-05
4625	-0.50	1.66E-03
4648	0.60	2.48E-04
4650	0.40	3.58E-03
4651	-0.80	1.75E-06
4654	0.60	2.36E-03
4662	0.60	1.04E-03
4687	-0.80	2.22E-07
4689	0.40	3.04E-03
4696	0.50	7.08E-04
4714	-0.50	3.23E-03
4723	0.60	1.24E-03
4734	-0.60	4.92E-03
4758	0.80	1.75E-07
4766	-0.50	2.19E-03

5044	-0.70	2.11E-03
5051	0.60	1.48E-04
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5465	0.40	6.52E-03
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7434	0.60	3.66E-06	4787	-1.00	4.42E-06	5511	0.50	1.17E-03
7436	0.60	7.17E-03	4789	0.50	3.46E-03	5526	0.50	5.86E-03
7447	-0.60	3.67E-05	4795	0.50	7.59E-03	5534	0.40	1.00E-02
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7568	-0.80	1.33E-04	8176	0.50	1.43E-03	9065	-0.70	1.01E-04
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0.15
-0.15
-0.10
0.09
0.10

1154	-1.60	7.16E-06	3602	1.30	7.48E-05	5955	1.60	1.60E-09
1160	0.90	5.95E-05	3606	1.10	1.64E-06	5956	-2.10	4.42E-05
1161	1.80	4.08E-17	3609	-1.50	1.77E-03	5957	-1.00	9.70E-04
1162	1.10	7.43E-10	3613	1.60	1.03E-13	5958	1.00	4.20E-05
1163	2.40	2.62E-13	3614	-1.30	5.31E-06	5963	-0.80	6.85E-03
1164	0.70	2.14E-03	3615	0.80	8.36E-05	5966	1.70	5.27E-16
1165	0.60	6.84E-03	3617	2.20	4.81E-09	5968	-1.50	8.37E-13
1167	0.70	2.00E-03	3618	2.30	2.06E-27	5970	1.20	1.75E-09
1170	-1.20	1.37E-11	3619	-0.90	1.92E-04	5971	2.40	1.81E-33
1171	1.10	6.15E-07	3622	-1.60	1.09E-03	5972	0.90	5.37E-05
1172	-1.10	2.99E-07	3625	1.30	9.59E-19	5973	0.90	5.94E-05
1176	0.60	8.35E-03	3629	0.90	4.97E-04	5978	-0.80	1.80E-03
1183	1.30	1.10E-09	3630	-0.80	1.81E-04	5979	1.90	4.39E-15
1185	1.00	1.21E-06	3631	-1.60	3.11E-12	5982	0.90	2.04E-05
1186	0.70	8.03E-04	3633	1.30	5.49E-04	5986	1.30	4.71E-09
1187	1.30	1.42E-09	3636	-1.60	1.08E-08	5989	0.80	5.66E-07
1188	1.30	1.54E-09	3647	-0.90	5.20E-04	5990	-1.30	1.89E-07
1193	0.70	2.41E-03	3649	0.80	1.90E-04	5992	-1.10	2.39E-10
1194	1.10	2.40E-06	3652	-3.70	1.38E-07	5993	-1.50	1.18E-05
1195	1.10	2.21E-07	3655	-1.20	9.56E-05	5994	0.80	6.11E-04
1201	-0.80	3.94E-04	3658	1.40	7.73E-08	5995	0.80	3.80E-04
1202	1.40	7.58E-04	3661	-1.60	2.65E-11	5996	0.70	9.51E-04
1212	1.10	1.25E-03	3668	1.30	2.46E-09	5997	0.70	1.26E-03
1213	1.80	1.76E-17	3669	0.60	8.37E-03	5998	-1.20	1.82E-08
1214	0.90	2.05E-04	3673	2.00	5.10E-08	6006	-1.50	1.16E-08
1218	-1.80	3.22E-04	3683	-1.20	1.77E-07	6015	-1.20	1.09E-07
1219	-1.40	2.58E-03	3684	0.80	9.07E-05	6016	-1.20	2.61E-08
1222	-1.10	7.49E-07	3693	-1.00	6.29E-06	6017	-1.90	5.69E-04
1226	-1.10	3.56E-05	3695	-1.10	6.49E-04	6024	-0.70	4.20E-03
1229	-1.70	8.92E-14	3696	-0.90	3.87E-03	6025	-2.40	1.36E-05
1230	1.20	4.90E-03	3697	-0.90	6.86E-06	6030	-0.90	1.21E-04
1237	-1.10	1.85E-05	3700	1.90	1.14E-17	6031	1.70	1.13E-17
1238	1.00	7.86E-08	3704	1.70	1.29E-12	6033	-2.20	8.04E-15
1239	-1.80	1.05E-11	3705	0.90	1.14E-03	6036	-1.90	5.47E-13
1241	2.00	9.52E-07	3706	-1.70	2.96E-12	6040	0.60	3.14E-03
1242	0.80	2.03E-03	3708	2.50	2.38E-33	6041	-0.80	9.71E-06
1243	1.10	8.71E-06	3713	1.20	2.71E-07	6045	-1.00	3.24E-03
1244	2.10	5.65E-27	3714	-0.60	1.05E-04	6046	1.60	1.42E-07
1251	1.80	1.83E-12	3715	0.90	4.28E-04	6049	1.70	7.67E-05
1252	-1.80	5.39E-11	3716	0.90	5.39E-04	6050	-0.60	7.41E-04

1254	-1.10	7.70E-04	3720	1.60	4.12E-08	6052	-1.50	4.52E-09
1255	0.80	2.50E-05	3721	0.90	7.90E-03	6056	-0.70	8.88E-03
1256	1.20	2.49E-07	3722	1.30	1.86E-09	6061	-1.70	9.39E-06
1265	1.90	7.89E-14	3723	-2.10	6.17E-06	6066	0.70	4.59E-03
1266	-1.00	5.68E-06	3726	1.10	7.05E-08	6067	0.60	8.30E-03
1267	1.10	8.47E-07	3727	-1.20	6.44E-07	6068	1.60	2.94E-15
1270	-1.60	5.87E-09	3728	0.80	1.25E-03	6069	-0.50	9.30E-04
1272	-1.10	4.50E-03	3729	-2.10	4.89E-16	6070	-1.00	2.14E-03
264								
1274	0.80	2.20E-04	3730	0.70	1.38E-05	6071	1.00	6.55E-07
1276	-1.70	2.76E-08	3731	1.10	1.13E-07	6075	-0.60	3.35E-05
1277	-1.60	5.22E-03	3734	1.50	4.95E-12	6081	0.70	1.07E-03
1278	-1.00	1.76E-05	3735	-1.50	2.86E-04	6086	-2.20	3.43E-17
1279	0.60	7.46E-03	3736	0.80	6.49E-03	6087	-0.60	7.60E-03
1281	1.00	2.53E-05	3740	-1.10	1.37E-05	6088	-0.60	8.62E-03
1283	1.40	3.70E-07	3742	-1.50	1.93E-06	6089	-1.30	2.29E-08
1287	-3.00	2.29E-30	3745	1.30	5.10E-09	6091	1.00	5.49E-03
1291	1.80	9.49E-17	3749	-2.10	1.53E-16	6092	-1.30	6.61E-06
1294	0.90	4.85E-07	3750	-0.70	2.54E-03	6093	-1.30	9.09E-06
1297	-1.20	2.57E-03	3752	-1.50	2.65E-12	6094	1.00	8.43E-04
1299	-1.10	4.69E-04	3753	-1.70	2.37E-11	6095	2.30	7.54E-07
1301	-0.70	8.17E-04	3754	-0.50	8.50E-03	6100	1.30	6.76E-05
1303	0.60	1.79E-05	3759	-2.60	1.02E-17	6101	1.30	6.38E-05
1305	1.50	5.63E-13	3760	2.10	3.07E-27	6102	-1.20	6.13E-08
1306	-1.40	2.60E-07	3761	0.70	5.58E-04	6103	-1.50	7.50E-09
1307	-1.20	2.50E-04	3762	-2.00	1.39E-06	6104	-0.90	3.94E-05
1309	1.10	8.43E-05	3763	1.80	3.96E-10	6105	1.50	9.01E-14
1311	1.10	1.73E-04	3765	-0.70	5.10E-04	6111	-1.40	1.71E-07
1319	1.10	4.73E-06	3768	-1.80	2.68E-05	6112	-1.20	3.52E-06
1320	-0.60	9.70E-03	3770	1.40	1.11E-10	6117	-2.20	3.50E-22
1327	-0.60	3.53E-03	3771	-1.20	6.90E-05	6118	1.50	1.08E-12
1329	-0.90	3.69E-05	3772	-2.50	1.42E-13	6124	0.90	1.81E-04
1332	2.10	1.94E-11	3773	-1.30	4.47E-03	6127	-1.50	3.25E-05
1333	1.50	1.69E-06	3776	-2.10	7.83E-19	6131	0.60	4.62E-04
1339	-1.50	6.37E-10	3777	-2.00	8.79E-04	6134	-1.60	3.38E-12
1346	-1.50	4.15E-10	3779	0.90	1.32E-05	6135	-1.70	7.23E-05
1348	-0.90	2.65E-03	3780	1.60	4.84E-15	6136	-2.00	1.40E-15
1349	-0.70	3.15E-03	3788	-2.20	2.32E-19	6137	-2.00	1.26E-15
1350	-1.00	2.56E-04	3789	-2.00	5.51E-08	6141	1.40	4.59E-12
1351	-0.80	2.47E-03	3792	-1.50	1.75E-07	6142	-0.90	6.96E-05

1354	-2.30	3.47E-13	3793	-1.40	4.11E-10	6143	-1.90	3.88E-16
1355	0.80	3.16E-04	3796	-2.80	3.56E-17	6148	-2.30	1.44E-04
1356	1.00	7.22E-06	3797	-2.80	8.06E-18	6152	1.80	1.44E-18
1360	0.80	3.71E-03	3798	-1.50	1.76E-05	6154	-0.60	2.24E-04
1364	1.80	2.96E-23	3801	0.70	7.98E-04	6158	-0.90	4.75E-05
1366	0.60	8.01E-03	3804	0.80	1.87E-04	6170	1.00	6.23E-04
1370	-3.30	1.32E-09	3808	-1.40	4.21E-10	6172	1.00	6.91E-06
1373	1.50	5.87E-07	3810	-1.40	4.82E-09	6177	0.60	3.89E-03
1378	-1.20	7.91E-04	3812	-0.90	1.39E-05	6181	1.40	2.64E-10
1380	-3.60	1.40E-18	3817	-0.70	2.83E-03	6186	1.20	8.47E-08
1385	-2.70	2.45E-28	3818	-1.20	5.15E-05	6187	0.70	2.23E-03
1389	1.70	1.48E-07	3821	1.30	9.75E-04	6188	1.30	2.61E-04
1390	-3.50	3.22E-13	3825	1.30	1.09E-05	6194	1.40	1.36E-04
1392	-0.80	1.10E-03	3834	-0.80	4.50E-03	6195	-0.80	5.37E-04
1393	-1.20	3.01E-09	3847	-0.90	1.20E-04	6197	1.20	1.74E-05
1395	1.00	6.51E-07	3859	-1.80	8.23E-17	6198	1.20	2.25E-05
1396	-1.50	7.35E-11	3862	1.50	2.55E-11	6200	1.30	3.32E-06
1397	0.90	5.34E-05	3864	-0.90	3.12E-05	6201	-1.20	5.88E-08
1401	-2.50	8.65E-29	3865	-1.50	8.29E-10	6204	-2.90	3.08E-17
1402	-0.70	3.03E-03	3866	0.60	6.12E-03	6214	1.60	1.29E-12
1406	-2.10	2.72E-18	3876	-1.10	1.03E-05	6219	1.30	1.90E-09
1409	0.70	1.12E-05	3878	-2.10	5.94E-22	6221	0.90	2.48E-05
1410	-1.70	8.51E-13	3879	-1.30	2.77E-06	6225	1.10	5.81E-07
1411	1.20	2.12E-07	3883	0.70	7.54E-04	6226	0.60	3.86E-03
1415	-1.20	2.72E-08	3884	-2.20	1.08E-21	6229	-0.90	2.14E-07
1421	0.60	6.47E-04	3885	1.30	3.61E-11	6230	1.40	2.35E-11
1424	0.70	3.04E-03	3886	1.70	6.03E-15	6235	-1.90	9.64E-05
1429	-1.40	3.53E-10	3887	-1.00	2.24E-04	6241	1.00	3.08E-07
1431	1.70	1.82E-15	3889	-1.30	3.64E-03	6245	2.40	8.04E-35
1433	1.00	1.38E-06	3892	-0.80	5.61E-04	6246	-1.40	4.94E-07
1434	0.70	6.56E-05	3895	-1.10	1.13E-06	6248	-2.00	2.24E-06
1436	-1.10	3.53E-05	3900	-1.20	3.93E-08	6249	2.30	1.39E-27
265								
1438	0.70	4.09E-03	3902	-2.70	9.85E-20	6250	-2.10	9.75E-21
1439	1.60	1.11E-14	3904	-1.30	8.80E-09	6253	-1.50	1.56E-12
1441	-1.10	5.50E-03	3909	-0.90	7.22E-04	6257	-2.50	1.66E-07
1443	1.20	1.48E-08	3910	0.90	1.57E-06	6258	-2.50	8.15E-16
1444	1.20	6.52E-09	3914	-2.40	2.22E-27	6261	0.90	1.15E-08
1445	-1.60	9.18E-03	3915	0.50	6.74E-03	6263	-1.20	2.09E-06
1451	1.80	1.18E-07	3917	1.00	4.95E-06	6264	-1.90	3.00E-06

1455	1.20	2.20E-04	3918	-1.60	1.59E-07	6266	-3.00	7.74E-09
1456	-0.80	7.33E-04	3919	0.90	3.43E-03	6267	-3.10	2.05E-15
1464	1.90	9.27E-22	3922	-1.10	1.90E-07	6271	-2.10	1.85E-04
1465	-0.80	1.12E-03	3924	0.40	4.06E-03	6272	-1.00	2.42E-06
1467	1.10	3.48E-06	3926	1.60	3.87E-15	6280	-0.90	4.81E-04
1468	1.30	5.67E-10	3927	-1.40	2.62E-09	6284	1.30	2.10E-09
1472	-1.20	3.26E-08	3928	-0.90	1.81E-05	6285	1.20	2.28E-09
1475	-1.40	4.45E-11	3929	1.80	6.17E-18	6286	-1.50	5.55E-04
1478	1.10	4.21E-06	3930	-1.00	3.72E-03	6291	0.80	3.69E-03
1491	1.90	1.37E-18	3933	-0.60	2.80E-03	6294	-1.70	8.29E-16
1494	1.60	1.84E-07	3937	-0.90	2.78E-05	6296	-1.60	2.36E-04
1498	-1.80	7.94E-15	3938	1.70	4.45E-11	6297	1.30	9.30E-08
1500	0.90	8.38E-04	3940	1.60	3.90E-15	6301	1.50	5.33E-03
1505	1.50	2.48E-08	3944	0.40	8.98E-03	6303	2.10	2.43E-24
1506	-1.10	3.45E-05	3945	-2.20	2.12E-07	6304	2.20	7.21E-25
1507	1.60	4.43E-08	3946	2.50	5.63E-33	6305	1.50	1.87E-08
1512	-1.60	7.03E-03	3947	-1.60	1.58E-11	6307	-1.20	5.80E-06
1516	1.20	3.44E-04	3951	0.80	2.15E-04	6310	2.00	8.07E-23
1521	-1.40	5.20E-03	3957	-1.40	1.66E-06	6321	1.30	1.11E-07
1522	-0.80	8.44E-03	3959	1.60	1.81E-07	6325	1.20	5.13E-06
1525	1.00	6.17E-03	3961	1.50	2.95E-11	6328	-1.00	3.69E-05
1527	-0.90	7.39E-05	3964	-1.40	6.15E-05	6329	-1.00	3.17E-05
1529	-0.90	2.65E-03	3967	1.10	8.52E-03	6330	-1.90	2.32E-11
1530	-2.20	3.15E-20	3968	-1.20	9.83E-03	6332	1.00	6.01E-03
1533	1.10	1.07E-07	3969	-1.30	3.03E-06	6333	0.70	9.24E-04
1535	-1.20	9.24E-03	3971	1.30	1.37E-06	6337	-2.40	8.95E-26
1542	0.90	1.78E-03	3972	2.60	5.71E-29	6340	-1.00	1.78E-03
1544	1.50	3.16E-07	3976	-1.10	8.84E-03	6341	-0.90	2.36E-03
1548	-1.70	2.22E-16	3978	-1.10	1.76E-06	6345	1.10	5.26E-07
1552	1.20	1.43E-08	3983	1.40	1.73E-11	6346	-1.60	3.03E-04
1554	1.10	1.09E-03	3987	-0.60	4.41E-03	6348	1.10	1.72E-07
1558	1.40	7.64E-11	3989	0.80	9.40E-03	6349	-0.90	3.93E-05
1560	0.90	8.97E-05	3994	0.60	9.72E-03	6351	-1.00	4.70E-06
1571	-1.10	6.27E-06	3996	-1.10	6.79E-05	6352	-3.50	2.12E-14
1573	1.60	2.66E-14	3998	-1.90	9.32E-04	6356	0.90	3.42E-05
1574	1.70	3.02E-08	4009	0.70	7.59E-04	6358	1.00	1.82E-05
1575	-1.30	4.34E-09	4011	1.70	1.32E-15	6359	-1.70	1.57E-08
1577	1.10	6.40E-06	4014	-1.00	1.70E-05	6360	-2.30	9.11E-06
1580	1.50	8.42E-13	4015	1.30	1.62E-09	6361	0.60	3.10E-03
1581	1.50	3.32E-08	4017	-1.30	4.08E-07	6365	-1.30	2.44E-10

1583	-1.90	1.46E-07	4021	1.70	2.69E-08	6366	-1.70	7.75E-11
1587	-2.70	1.29E-08	4022	-1.40	1.06E-05	6372	0.70	5.84E-04
1588	-0.80	2.53E-03	4023	-1.70	3.76E-04	6373	2.00	3.57E-23
1596	-0.80	2.64E-04	4025	2.50	6.72E-35	6375	1.60	6.24E-11
1597	-1.00	5.30E-04	4027	1.80	3.84E-17	6376	1.50	1.97E-11
1599	2.00	1.04E-20	4028	-2.00	5.62E-06	6377	1.60	2.67E-07
1604	-1.10	2.70E-05	4030	-0.70	1.99E-03	6381	-2.10	1.55E-23
1607	-1.00	4.18E-03	4031	-1.70	4.91E-05	6382	-0.70	1.69E-03
1608	0.90	3.50E-03	4032	1.00	3.58E-06	6385	-0.70	1.72E-03
1612	0.70	6.06E-04	4041	-1.00	1.78E-03	6391	1.50	1.48E-03
1614	1.70	5.19E-16	4044	-1.80	1.30E-10	6394	0.80	3.92E-04
1615	-1.50	1.50E-03	4045	1.50	3.44E-11	6397	-1.30	6.38E-05
1616	1.80	1.22E-17	4049	0.90	4.49E-04	6398	-2.00	8.51E-12
1618	0.90	4.74E-05	4050	0.90	5.45E-05	6402	-2.20	1.48E-07
1620	-1.90	4.83E-17	4051	-2.10	3.00E-24	6408	2.00	1.73E-20
1622	0.70	1.21E-03	4052	-2.40	2.48E-26	6411	-1.50	1.95E-12
266								
1623	1.30	8.01E-10	4053	0.80	3.50E-04	6415	-2.00	7.85E-16
1625	2.00	2.71E-22	4056	1.10	1.51E-07	6416	1.70	2.47E-15
1628	-0.90	5.28E-04	4060	1.30	1.01E-09	6417	1.60	8.49E-14
1629	-0.90	4.68E-04	4061	1.30	1.28E-09	6419	-1.00	3.91E-03
1630	-1.10	2.62E-05	4065	-1.70	3.75E-04	6420	-1.30	5.72E-10
1634	1.20	1.14E-05	4067	0.60	3.31E-03	6431	-3.50	2.89E-07
1635	-0.90	3.76E-06	4068	1.80	6.84E-05	6433	-0.60	7.67E-03
1636	-2.50	1.75E-07	4070	-1.50	4.10E-11	6434	1.20	3.11E-08
1637	0.80	1.90E-04	4075	-1.40	5.45E-10	6436	2.00	4.28E-21
1640	-1.80	8.23E-10	4076	-2.10	4.07E-07	6437	0.70	8.67E-03
1642	1.60	3.02E-11	4077	-0.80	3.44E-04	6438	1.20	2.89E-10
1643	1.60	1.26E-09	4079	1.50	3.94E-07	6440	0.90	1.01E-05
1644	-2.30	9.58E-10	4081	1.00	1.45E-06	6441	1.30	4.92E-03
1650	-0.90	3.00E-04	4084	2.00	1.17E-14	6451	-1.00	8.64E-06
1652	1.10	4.17E-06	4088	-1.30	1.81E-08	6452	-1.00	2.87E-05
1653	2.20	5.43E-28	4091	-2.80	2.80E-05	6455	0.70	3.77E-03
1659	1.80	1.69E-04	4096	1.90	5.46E-15	6459	1.00	9.76E-07
1662	-1.90	1.05E-06	4097	-2.00	5.43E-18	6461	-1.80	1.37E-09
1663	-2.00	1.61E-07	4098	-1.60	8.58E-12	6463	-0.80	1.36E-04
1664	-0.70	4.77E-04	4099	-0.70	2.80E-03	6464	-1.20	1.11E-06
1669	0.70	5.82E-04	4100	0.80	6.83E-04	6468	-1.40	2.67E-04
1677	1.90	5.73E-18	4106	-1.20	2.34E-08	6471	0.90	6.80E-03
1681	1.50	1.99E-11	4115	1.00	2.56E-05	6473	-1.20	3.22E-04

1684	1.30	1.46E-07
1686	1.60	3.46E-14
1696	-2.80	4.54E-06
1702	0.80	7.81E-03
1710	-1.20	5.97E-08
1711	0.70	7.74E-03
1717	-1.50	8.42E-05
1718	0.90	2.93E-05
1722	1.30	2.18E-10
1724	-0.60	7.95E-03
1730	2.00	9.02E-21
1731	-1.80	4.74E-17
1740	-0.90	3.16E-04
1741	1.60	4.68E-11
1743	-2.70	2.78E-09
1744	1.00	7.35E-05
1745	0.90	1.08E-04
1751	2.30	1.50E-34
1752	2.60	8.60E-35
1757	-0.90	2.23E-03
1758	1.20	1.98E-03
1763	0.90	3.71E-04
1764	-1.30	2.19E-08
1768	-1.20	1.77E-04
1772	-1.10	5.47E-03
1773	-1.10	5.17E-03
1776	-0.80	4.35E-03
1777	-1.10	2.13E-04
1778	-1.40	1.02E-03
1780	2.00	3.11E-23
1781	0.90	6.44E-04
1782	0.90	6.27E-04
1784	1.60	6.23E-08
1788	-1.50	7.21E-10
1790	-1.40	3.47E-19
1792	0.90	5.29E-03
1794	1.00	8.18E-06
1795	-1.00	5.45E-05
1798	1.50	5.16E-08
1799	1.20	1.12E-08

4120	-1.70	3.26E-11
4121	-2.20	2.47E-14
4126	-1.50	1.45E-04
4130	-1.10	1.04E-07
4131	-1.50	6.20E-03
4133	0.40	8.27E-03
4134	-1.80	4.54E-15
4135	-1.10	1.13E-04
4155	1.70	3.36E-14
4156	1.50	7.05E-13
4159	1.40	4.46E-10
4162	-1.10	6.11E-05
4163	-1.00	7.67E-03
4164	1.20	9.45E-08
4165	-2.10	4.34E-16
4166	-2.30	1.87E-22
4167	1.50	1.67E-07
4170	1.70	5.03E-15
4182	0.80	1.20E-03
4187	1.30	6.33E-07
4188	-0.90	1.35E-04
4194	-1.80	3.06E-12
4196	1.30	1.85E-06
4197	-0.60	5.72E-03
4198	-0.80	1.49E-03
4202	2.20	6.93E-28
4203	1.20	4.40E-09
4204	-0.70	1.12E-03
4205	1.30	1.82E-09
4210	-0.90	1.74E-05
4211	1.30	2.99E-07
4212	-1.10	2.02E-06
4214	-3.10	1.19E-14
4215	0.70	7.01E-04
4217	1.00	1.69E-06
4219	1.50	6.97E-06
4231	1.90	2.99E-17
4232	0.90	2.42E-05
4234	-2.90	9.10E-24
4235	1.60	5.47E-04

6476	-2.30	2.30E-05
6477	1.20	1.01E-03
6485	-1.80	1.03E-09
6487	1.00	7.66E-06
6493	-2.60	9.41E-06
6498	-1.40	1.11E-10
6502	-1.30	9.01E-03
6505	-1.60	3.42E-11
6509	-0.70	1.97E-03
6515	2.40	1.47E-12
6520	0.70	1.98E-03
6521	-0.70	6.59E-03
6523	-1.60	2.82E-20
6530	-1.00	2.17E-06
6531	1.50	6.96E-10
6532	-1.50	4.06E-05
6535	-0.90	5.66E-06
6540	-1.60	1.89E-10
6544	1.20	3.56E-09
6545	1.40	7.38E-09
6548	-1.10	1.34E-06
6549	-1.30	3.31E-07
6550	-0.80	1.79E-05
6551	-3.30	6.40E-12
6555	1.60	5.45E-14
6561	-1.50	7.81E-03
6564	1.40	6.41E-06
6565	1.00	4.38E-07
6566	-2.30	3.06E-09
6568	-2.00	4.17E-21
6571	-2.90	1.01E-10
6573	-1.40	4.97E-03
6576	1.80	5.11E-07
6577	0.60	4.46E-03
6580	-1.40	4.20E-07
6582	1.50	8.25E-13
6583	-0.90	7.41E-05
6587	0.70	1.50E-04
6596	-0.70	4.50E-03
6597	1.40	7.39E-03

267								
1803	-1.80	1.92E-07	4236	1.30	2.30E-06	6598	1.40	7.46E-03
1804	-3.50	4.77E-09	4241	0.90	5.43E-03	6600	1.40	2.20E-09
1805	-1.40	3.79E-06	4242	1.20	2.73E-08	6601	-1.60	1.84E-08
1806	1.40	7.82E-04	4244	-1.60	4.77E-11	6606	1.50	8.37E-05
1808	0.60	3.54E-03	4245	-2.10	1.19E-11	6607	-1.20	3.52E-07
1813	0.90	2.29E-05	4246	-2.10	3.32E-19	6615	1.40	7.12E-10
1815	-2.60	3.46E-08	4248	-4.40	2.69E-09	6617	1.80	5.33E-06
1820	-1.80	1.54E-08	4249	1.20	6.48E-06	6619	-1.80	8.24E-16
1823	0.80	2.23E-04	4252	-1.00	8.20E-06	6623	-1.40	6.20E-03
1825	-1.30	1.72E-09	4259	1.10	1.19E-06	6626	-1.80	6.71E-14
1827	-2.00	3.01E-24	4261	-1.40	8.55E-11	6630	-0.80	4.20E-03
1829	-1.60	8.12E-05	4262	1.30	5.23E-03	6633	-0.80	1.63E-03
1836	-1.10	9.47E-05	4264	-1.10	9.48E-04	6635	-1.40	7.13E-05
1837	1.00	1.01E-06	4265	1.70	6.29E-10	6639	2.00	2.28E-21
1843	-1.50	8.00E-07	4266	-1.50	2.96E-03	6640	-1.50	2.50E-06
1846	-2.20	5.04E-08	4268	-0.90	5.09E-05	6643	1.60	2.75E-15
1847	-1.30	1.07E-05	4270	-0.60	9.06E-03	6648	-2.40	6.71E-06
1848	1.30	1.49E-03	4271	-2.30	1.41E-05	6651	-1.00	1.12E-03
1849	1.60	9.90E-11	4272	1.10	3.98E-07	6658	-0.80	2.34E-04
1851	-1.10	4.82E-07	4276	-1.80	6.82E-13	6659	1.80	5.48E-20
1853	1.20	3.61E-03	4277	-1.10	1.04E-05	6660	-1.80	7.18E-12
1856	0.60	6.22E-03	4278	-1.20	8.25E-08	6668	0.90	2.39E-05
1858	-1.30	7.00E-09	4279	-0.90	3.93E-05	6669	1.10	7.18E-06
1859	-0.70	5.36E-03	4285	0.80	2.04E-04	6671	-2.00	5.21E-17
1862	-1.80	2.99E-15	4289	0.70	2.66E-03	6672	-0.80	5.46E-05
1864	-1.10	2.06E-05	4294	0.60	6.80E-03	6675	-0.90	6.92E-03
1867	-1.50	8.06E-05	4297	2.00	5.76E-20	6676	-2.00	7.03E-11
1869	2.10	5.45E-22	4299	-2.20	8.51E-17	6677	0.60	6.82E-03
1870	-1.80	2.61E-04	4301	-3.00	3.05E-18	6678	1.30	1.54E-05
1871	-1.50	8.88E-11	4304	1.20	3.76E-03	6681	1.70	2.48E-14
1872	-1.00	1.09E-03	4307	0.60	3.98E-03	6683	-1.60	1.16E-11
1875	-1.20	4.19E-04	4313	1.70	2.03E-16	6685	-1.10	4.51E-03
1876	1.80	5.52E-16	4314	1.00	8.70E-08	6689	-0.90	4.00E-04
1879	-1.60	1.41E-08	4315	-1.30	2.17E-07	6690	-2.30	1.17E-08
1884	-1.90	8.72E-14	4319	-1.20	1.54E-06	6697	1.90	3.45E-20
1886	-0.80	7.30E-04	4321	-1.00	1.86E-03	6699	-1.10	7.21E-03
1889	-1.30	2.81E-08	4326	-0.90	4.32E-03	6701	-0.80	9.38E-03
1890	2.20	9.14E-17	4328	1.20	1.40E-05	6703	-1.10	1.20E-05
1893	1.20	1.71E-05	4329	-1.50	2.36E-03	6706	-1.40	8.79E-09

1896	1.10	1.00E-06	4331	-1.20	1.70E-07	6708	-1.20	2.89E-05
1900	1.10	4.47E-04	4332	-1.00	1.05E-06	6709	1.40	7.88E-09
1904	0.80	1.32E-04	4333	-2.20	6.85E-11	6711	-1.70	2.13E-04
1905	-1.30	2.00E-03	4334	2.50	8.75E-34	6714	-1.90	4.11E-19
1906	-1.10	1.85E-05	4335	2.20	4.89E-13	6718	-2.30	9.82E-11
1910	1.00	5.48E-03	4336	1.00	2.30E-06	6722	-1.40	3.10E-07
1914	0.70	1.04E-03	4342	-1.30	5.20E-06	6724	1.70	1.19E-09
1920	1.20	2.27E-06	4343	1.00	5.57E-05	6725	-0.80	3.69E-03
1922	-1.00	5.33E-06	4345	1.10	1.43E-07	6727	2.40	6.72E-17
1924	-1.20	4.76E-06	4352	1.00	5.16E-06	6735	2.10	1.68E-11
1926	1.10	3.90E-07	4354	1.70	9.61E-18	6741	1.50	8.56E-07
1927	-1.00	2.76E-03	4358	1.60	3.60E-05	6749	-3.00	4.13E-18
1928	-2.50	1.61E-26	4362	-1.80	1.49E-10	6751	-1.90	1.18E-11
1929	1.70	9.61E-17	4366	1.40	6.52E-05	6752	0.70	2.99E-03
1930	1.70	7.60E-17	4371	1.20	8.85E-05	6754	1.00	1.93E-06
1931	0.90	6.96E-03	4374	-0.70	3.00E-03	6755	1.10	8.37E-07
1932	-2.20	7.01E-07	4386	-1.00	8.68E-06	6757	-2.40	1.16E-15
1933	0.70	7.73E-04	4387	-0.90	3.80E-04	6758	-0.80	2.32E-03
1934	1.50	6.30E-05	4395	0.60	4.25E-03	6762	-1.30	6.02E-09
1938	-1.90	8.65E-13	4396	1.50	2.89E-14	6763	1.20	5.96E-07
1939	2.10	2.23E-27	4398	-1.50	3.09E-10	6764	1.30	4.54E-06
1941	1.80	4.51E-18	4399	1.40	1.63E-04	6765	1.10	6.79E-09
1944	0.90	2.47E-06	4400	-1.60	5.76E-06	6766	-1.00	2.64E-07
1950	-1.30	3.46E-03	4401	-2.10	1.26E-11	6770	-0.80	2.18E-04
268								
1952	-1.10	3.26E-03	4405	-2.30	5.04E-09	6774	-2.00	1.32E-09
1963	-1.70	9.81E-04	4415	-0.80	1.24E-03	6776	1.10	7.39E-07
1969	1.30	4.00E-07	4417	1.50	1.89E-09	6780	-1.90	1.98E-15
1971	1.40	7.83E-11	4418	-1.30	2.15E-04	6783	-0.90	7.41E-05
1974	-1.60	8.87E-13	4419	-1.70	2.00E-05	6785	-1.10	6.89E-04
1978	-1.70	2.84E-06	4420	-1.00	1.45E-04	6786	-1.10	1.43E-03
1980	1.10	9.48E-06	4425	1.40	1.43E-11	6788	1.40	4.69E-04
1981	2.20	1.25E-23	4426	-2.00	3.21E-10	6790	-0.70	1.91E-03
1983	0.70	4.64E-04	4430	0.80	4.28E-04	6798	1.30	2.17E-04
1985	-1.10	3.03E-06	4445	1.10	2.71E-06	6799	1.70	1.05E-16
1986	-1.10	7.52E-04	4446	-3.00	3.42E-23	6810	-0.90	2.80E-03
1988	-1.40	4.21E-07	4447	-0.50	6.87E-03	6812	1.10	8.04E-05
1989	0.70	4.00E-03	4450	-0.90	5.62E-06	6817	-2.20	3.32E-04
1990	-1.80	1.44E-06	4453	-0.60	1.95E-03	6818	-2.40	1.67E-23
1996	2.60	7.71E-18	4454	0.60	4.87E-03	6819	-2.70	3.64E-08

1997	1.30	9.63E-05
1999	1.30	1.26E-11
2002	-3.60	1.16E-08
2003	-0.60	9.28E-03
2004	2.10	1.98E-11
2009	-1.40	4.92E-10
2010	0.90	3.40E-05
2015	-1.70	7.69E-05
2016	-0.80	3.70E-04
2017	-0.90	6.39E-04
2018	0.80	8.05E-05
2019	0.90	7.49E-05
2020	-1.00	2.66E-04
2030	1.20	1.02E-07
2035	-0.90	3.51E-05
2043	-1.10	2.01E-05
2044	-1.50	5.25E-08
2045	1.10	5.77E-07
2049	1.70	3.58E-15
2056	-1.30	8.17E-09
2057	0.60	4.11E-03
2059	2.20	2.61E-22
2065	-0.90	4.24E-03
2071	1.90	8.67E-11
2075	-1.50	1.69E-10
2077	1.70	5.91E-21
2078	-0.60	6.13E-03
2088	0.60	5.55E-03
2090	-1.30	1.27E-08
2092	-1.30	4.54E-05
2093	-1.40	8.80E-19
2094	-1.80	6.98E-14
2096	-1.20	2.89E-08
2098	1.10	2.09E-04
2099	-1.30	2.07E-04
2101	-1.20	1.06E-06
2105	1.20	1.08E-05
2107	2.40	4.69E-22
2110	1.70	1.69E-17
2114	-2.20	2.79E-08

4455	-0.80	2.10E-04
4457	-1.50	3.06E-03
4458	-0.90	1.22E-05
4464	-1.10	4.36E-03
4470	0.60	5.72E-03
4472	-1.30	6.95E-08
4473	-1.40	2.05E-03
4476	-1.00	6.87E-07
4477	-0.70	7.18E-04
4478	-1.90	3.50E-10
4484	-1.90	9.67E-04
4485	-1.40	2.26E-11
4486	2.80	8.13E-15
4487	2.00	2.43E-24
4492	-0.80	6.06E-03
4493	-1.30	2.46E-06
4499	-0.70	7.80E-03
4501	1.40	4.62E-10
4502	0.70	1.54E-03
4503	0.80	1.24E-04
4505	1.80	4.70E-18
4507	-0.90	9.65E-05
4512	-1.30	6.68E-08
4515	1.20	1.29E-08
4517	0.80	2.93E-04
4523	1.10	1.05E-08
4524	1.30	6.61E-04
4525	-2.40	5.41E-14
4528	-2.30	1.50E-10
4529	-2.90	1.29E-05
4536	1.30	1.95E-09
4537	-1.80	6.90E-09
4542	3.10	3.76E-54
4543	1.60	6.35E-08
4544	-0.90	4.75E-06
4549	1.80	1.48E-09
4551	-1.10	2.34E-03
4555	-1.30	5.34E-03
4556	-0.60	4.20E-03
4558	0.80	1.83E-03

6820	-3.10	1.21E-08
6830	0.70	3.14E-03
6834	-0.60	5.76E-04
6835	0.70	4.35E-04
6839	2.20	2.67E-29
6842	-1.80	3.89E-05
6843	-1.50	9.32E-10
6845	0.90	5.96E-03
6849	-3.90	1.06E-09
6851	-1.00	1.45E-03
6854	-1.27	7.75E-06
6856	-1.75	8.32E-14
6862	-1.68	3.45E-03
6864	-1.21	3.12E-08
6865	0.63	5.19E-03
6866	1.70	1.54E-07
6867	-1.38	1.68E-05
6869	-2.34	7.80E-24
6870	-1.97	5.94E-06
6877	0.74	5.74E-03
6879	-1.13	7.50E-07
6886	-0.99	3.17E-05
6887	-0.80	2.46E-04
6891	-0.93	5.43E-04
6894	1.91	6.70E-14
6895	1.22	3.62E-08
6904	0.42	4.93E-03
6910	1.77	1.09E-12
6919	-1.08	9.78E-06
6926	1.39	2.60E-08
6928	1.62	1.45E-12
6933	-1.31	2.64E-03
6934	-1.31	2.58E-03
6936	-1.88	1.11E-12
6937	1.12	3.22E-03
6938	-1.13	1.73E-08
6939	1.32	4.71E-07
6945	1.48	2.60E-12
6949	-0.65	1.38E-03
6951	0.58	7.42E-03

2116	-2.10	1.87E-05	4559	0.80	2.70E-03	6953	2.43	7.89E-37
2118	1.10	7.68E-06	4562	-0.90	3.75E-05	6954	-1.06	4.00E-06
2121	1.10	1.49E-04	4565	0.80	5.09E-03	6961	0.97	2.52E-03
2123	1.30	3.45E-07	4567	-2.30	1.91E-09	6962	1.32	3.38E-09
2126	2.10	9.26E-21	4568	-0.60	4.65E-04	6967	-0.83	5.12E-05
2131	-1.60	2.88E-04	4569	0.80	3.76E-04	6976	1.01	1.14E-06
2134	1.70	5.91E-14	4578	2.00	1.76E-22	6980	-0.87	3.43E-05
2137	0.50	3.69E-03	4580	-2.20	2.48E-14	6989	-1.85	1.65E-06
269								
2141	0.70	1.82E-05	4581	2.50	2.93E-33	6996	2.47	2.00E-33
2145	-1.20	5.73E-08	4582	1.50	6.22E-14	6998	-2.06	9.67E-11
2146	-0.80	3.41E-04	4583	1.90	2.36E-19	6999	-2.14	1.98E-21
2163	-1.80	2.70E-08	4584	0.80	3.57E-04	7004	0.97	5.13E-06
2171	0.70	9.70E-04	4585	-1.40	5.63E-03	7011	-0.88	2.97E-04
2172	1.80	4.21E-17	4586	-1.00	6.66E-06	7012	-0.88	2.60E-04
2176	0.90	3.76E-05	4589	1.10	4.82E-05	7013	-1.19	9.24E-08
2177	1.20	3.13E-08	4591	-1.60	7.11E-03	7018	-1.19	5.01E-05
2178	1.20	8.36E-07	4602	2.10	1.68E-24	7022	-1.31	4.41E-03
2183	0.90	6.97E-06	4606	-0.70	1.61E-03	7023	-1.20	8.91E-06
2185	0.70	3.33E-03	4607	-0.70	1.44E-03	7027	-1.41	2.51E-06
2187	-2.40	1.23E-11	4608	-1.50	1.56E-08	7028	1.68	7.23E-10
2195	-1.30	7.61E-08	4610	0.80	4.35E-04	7044	-2.13	1.23E-15
2200	-1.40	1.27E-03	4612	-1.30	9.37E-04	7049	1.10	8.65E-08
2203	-1.30	1.73E-04	4615	-1.40	9.24E-04	7052	-2.46	5.78E-06
2211	0.90	1.40E-04	4616	-0.90	3.20E-05	7053	-0.99	1.50E-08
2215	0.80	1.22E-03	4619	-1.80	5.54E-14	7055	-0.76	1.18E-03
2218	1.10	8.46E-08	4620	1.00	1.38E-06	7059	0.72	1.60E-03
2222	0.90	4.25E-03	4621	-0.90	4.02E-04	7063	0.81	6.53E-08
2224	1.10	1.78E-07	4622	-2.30	9.69E-23	7064	1.25	3.66E-09
2226	-1.50	1.18E-03	4623	-0.80	6.26E-04	7068	1.17	2.82E-06
2227	-1.30	1.28E-06	4627	-1.30	1.24E-04	7069	-1.59	2.50E-07
2228	-2.70	2.49E-10	4629	2.30	1.17E-30	7071	0.98	1.99E-04
2229	-1.40	5.03E-07	4634	-2.80	1.04E-17	7072	-1.71	1.30E-15
2231	1.80	3.95E-13	4647	0.70	9.86E-03	7073	-1.71	1.30E-15
2232	-1.00	9.76E-04	4650	0.70	8.74E-04	7077	1.07	2.69E-03
2236	1.10	3.11E-03	4651	1.80	3.10E-15	7079	1.33	1.51E-10
2237	-1.10	3.62E-03	4654	-2.80	7.68E-21	7082	1.51	4.06E-08
2242	1.30	3.20E-06	4662	-1.70	8.78E-11	7084	-1.37	6.27E-04
2248	-0.50	1.01E-03	4664	2.10	1.08E-23	7085	-1.07	6.56E-06
2250	-2.00	2.71E-20	4669	-1.10	1.31E-05	7086	-2.38	4.72E-22

2251	-2.20	7.24E-16	4670	-1.70	1.79E-09	7088	-1.39	1.92E-05
2260	-1.10	3.02E-05	4671	-2.00	3.25E-15	7092	1.02	1.01E-06
2261	-1.10	4.63E-06	4675	1.10	4.37E-07	7097	-0.83	1.13E-03
2268	-1.70	1.63E-07	4677	-0.80	9.92E-04	7098	0.86	4.09E-05
2275	-0.90	1.39E-05	4678	2.00	3.80E-17	7101	-1.03	4.10E-07
2284	-1.30	4.34E-09	4679	-2.10	2.43E-23	7106	0.76	6.77E-04
2285	-1.70	1.00E-11	4687	0.70	1.03E-03	7108	-1.72	8.49E-06
2290	1.10	5.30E-03	4688	1.30	1.76E-09	7112	-1.65	1.22E-10
2291	-1.10	4.24E-05	4689	-1.00	9.92E-07	7116	1.99	1.30E-22
2293	2.20	5.69E-25	4690	-2.80	9.09E-19	7122	-1.68	1.19E-05
2294	2.10	1.36E-24	4691	-1.70	9.20E-11	7123	1.70	4.02E-15
2295	-1.20	9.81E-06	4692	-1.30	2.19E-06	7124	1.05	2.33E-06
2300	2.20	2.04E-27	4694	-1.10	1.54E-06	7128	1.86	4.10E-19
2303	1.70	1.88E-12	4696	-2.00	2.70E-17	7129	-0.68	1.51E-03
2304	1.20	1.64E-07	4705	0.90	8.89E-06	7130	1.44	5.63E-07
2311	0.90	1.76E-06	4708	-1.80	1.89E-06	7135	2.42	2.31E-08
2312	0.90	1.10E-03	4712	-1.20	2.69E-03	7136	2.24	4.46E-07
2314	0.70	7.92E-05	4716	0.70	1.33E-03	7139	-1.41	2.18E-06
2316	0.80	7.83E-04	4726	1.20	4.03E-04	7145	0.92	1.50E-05
2318	-1.10	2.34E-06	4728	1.40	7.67E-10	7146	0.98	7.06E-06
2323	1.40	3.75E-15	4731	-1.50	1.79E-04	7147	1.02	2.89E-06
2324	-2.10	7.30E-15	4732	0.70	1.15E-03	7149	1.61	3.49E-11
2325	-2.00	4.40E-17	4734	-1.20	1.36E-04	7156	1.22	7.33E-03
2328	1.00	1.41E-06	4739	-1.10	5.32E-07	7160	1.36	3.45E-08
2329	-1.40	1.76E-07	4740	-1.10	8.72E-07	7161	-1.95	1.34E-14
2330	0.70	1.57E-03	4744	0.80	2.05E-03	7162	0.73	8.54E-04
2334	-0.90	2.87E-05	4746	1.10	1.67E-07	7165	-0.96	7.36E-03
2335	-2.50	6.94E-21	4753	-0.90	2.65E-06	7166	-1.27	1.32E-07
2343	1.10	3.37E-08	4756	1.30	2.08E-11	7167	0.71	4.08E-03
2345	-0.90	9.98E-05	4757	-0.90	6.88E-05	7170	0.82	5.65E-04
2353	1.00	1.89E-04	4758	-1.00	9.31E-05	7172	1.31	8.48E-10
2354	-3.30	3.59E-09	4760	-2.70	1.07E-20	7180	-1.93	1.24E-06
270								
2358	0.90	3.76E-03	4761	-2.70	1.12E-20	7181	-2.21	1.62E-05
2360	-0.70	4.16E-03	4762	1.00	1.18E-06	7184	-0.74	5.49E-04
2362	-1.10	4.29E-04	4763	-1.30	2.82E-09	7187	0.90	2.19E-03
2364	-0.60	7.06E-03	4764	1.10	5.92E-05	7189	0.92	1.75E-05
2369	-1.00	4.20E-06	4765	-0.70	6.83E-04	7190	1.25	1.45E-08
2371	-1.30	1.94E-05	4766	-0.90	3.48E-04	7195	-1.36	1.10E-07
2373	-2.40	2.35E-11	4770	-0.90	1.46E-05	7196	-0.63	5.27E-03

2388	-1.00	1.65E-08	4771	-3.10	2.14E-16	7197	-1.84	5.02E-17
2389	-2.00	7.42E-17	4775	-1.00	2.26E-04	7198	-1.38	3.76E-06
2390	-1.60	2.08E-09	4780	1.40	3.51E-11	7199	-2.28	6.72E-18
2393	-1.20	5.31E-09	4781	1.50	8.88E-09	7202	-1.32	2.47E-03
2394	-1.30	2.01E-07	4786	-1.60	7.10E-08	7204	1.06	1.06E-06
12680	-1.39	4.15E-05	13171	1.36	8.12E-06	13791	0.90	2.67E-05
12683	-0.99	6.93E-06	13178	1.20	6.33E-09	13793	-1.95	4.07E-12
12685	-0.78	2.93E-03	13184	-1.20	2.86E-05	13795	1.33	3.14E-08
12687	0.97	2.40E-03	13185	0.96	5.64E-06	13798	-1.14	2.68E-06
12693	1.08	2.03E-07	13191	-2.02	5.23E-09	13805	1.17	4.30E-08
12697	-1.24	3.26E-03	13194	0.78	1.44E-03	13809	-0.73	1.14E-03
12699	-0.85	1.74E-03	13195	-0.66	2.44E-03	13811	-1.23	3.64E-03
12701	0.98	7.17E-06	13199	-1.01	1.77E-04	13812	-0.63	2.90E-03
12702	-2.08	2.62E-03	13200	0.93	3.07E-04	13814	-2.03	7.80E-07
12705	-1.55	1.04E-11	13201	2.35	1.86E-07	13816	1.28	8.63E-06
12706	1.11	2.91E-07	13204	-1.06	1.65E-05	13832	1.25	3.15E-07
12716	0.82	6.46E-04	13210	1.08	1.64E-07	13837	1.23	1.21E-06
12720	0.73	5.06E-03	13211	-2.56	1.29E-09	13838	1.44	6.33E-11
12725	-2.61	1.12E-21	13212	1.35	7.53E-10	13839	-2.01	5.20E-15
12728	-1.41	2.34E-05	13214	1.12	1.98E-07	13843	-0.97	6.37E-03
12740	-0.95	7.45E-05	13230	-1.56	1.15E-12	13851	1.33	2.33E-03
12746	0.64	2.20E-03	13236	-1.43	2.23E-03	13852	1.00	1.83E-06
12747	-1.09	3.46E-04	13238	-0.87	3.11E-05	13857	1.44	7.29E-12
12752	-1.06	1.83E-05	13254	0.70	9.79E-04	13860	-1.87	4.34E-08
12756	-1.31	1.78E-06	13258	-1.13	5.76E-03	13865	-3.12	3.65E-04
12757	1.03	6.90E-03	13264	-1.43	1.98E-11	13878	-1.33	2.84E-06
12766	-1.65	7.00E-06	13276	1.70	9.31E-17	13879	-0.76	6.60E-04
12773	-0.99	1.18E-03	13279	-2.29	8.85E-06	13885	1.16	2.33E-06
12781	-1.45	2.08E-07	13297	1.65	2.86E-05	13891	-2.21	3.82E-08
12786	1.33	7.20E-10	13302	1.15	1.53E-08	13898	1.85	1.23E-17
12788	-1.69	9.78E-05	13305	-1.86	9.23E-09	13899	-1.28	8.68E-06
12795	1.26	2.87E-09	13306	-2.13	4.72E-06	13906	-0.78	3.01E-03
12798	-1.35	4.07E-10	13308	-1.10	5.39E-03	13916	-1.91	1.22E-06
12799	2.14	4.37E-23	13310	1.04	8.84E-07	13917	-1.77	3.32E-13
12804	-3.02	8.90E-06	13312	-1.21	9.24E-08	13920	-1.04	6.21E-03
12814	-2.51	5.34E-05	13315	-1.97	4.64E-03	13923	-1.07	7.99E-03
12816	-1.43	1.22E-05	13323	-1.18	9.72E-03	13926	-1.10	5.55E-03
12826	0.74	5.61E-03	13328	2.10	4.37E-20	13927	1.75	2.54E-11
12827	-1.22	2.63E-03	13340	-1.17	5.18E-05	13929	-0.97	1.02E-04
12828	-1.49	1.97E-11	13349	0.98	4.07E-05	13934	-1.53	5.26E-11

12833	-1.24	1.21E-05	13352	-0.98	4.71E-04	13939	-1.19	1.39E-07
12837	1.10	1.10E-06	13355	-1.05	3.20E-06	13949	-1.03	1.79E-03
12840	-2.10	9.50E-08	13365	-1.61	2.94E-03	13954	-1.04	1.80E-03
12846	0.95	1.22E-05	13367	1.28	7.27E-10	13955	0.81	8.86E-04
12847	-1.88	9.08E-06	13372	-0.77	9.67E-04	13960	-1.41	8.06E-03
12849	-0.58	4.87E-03	13378	-2.01	4.30E-07	13967	-1.46	1.10E-03
12850	1.51	1.84E-13	13381	-1.46	4.47E-04	13971	1.36	3.25E-09
12856	0.83	1.29E-04	13382	1.39	3.53E-08	13973	0.91	1.97E-03
12864	-1.13	9.86E-03	13384	-0.80	3.75E-04	13981	-0.73	5.82E-03
12865	1.38	1.10E-04	13396	-0.70	8.84E-04	13984	-2.15	3.57E-22
12868	-0.71	1.89E-03	13404	-1.79	1.36E-04	13987	-0.57	9.56E-03
12876	-0.81	3.70E-03	13406	-1.21	9.84E-08	13994	0.75	2.69E-03
12880	0.96	1.03E-04	13413	1.71	1.58E-05	13997	0.85	5.74E-03
12881	1.50	1.08E-12	13434	1.33	5.07E-09	13998	2.20	1.05E-17
12882	-1.27	1.14E-04	13435	-1.28	1.24E-03	14007	-0.66	1.64E-04
12885	1.68	6.76E-16	13447	0.72	5.75E-03	14009	-0.77	7.38E-04
271								
12886	-0.77	8.78E-03	13455	-0.92	3.40E-06	14010	-1.35	2.71E-10
12887	2.21	5.33E-21	13457	-1.43	8.92E-08	14014	-0.86	1.70E-05
12888	-1.21	5.23E-06	13460	0.99	3.34E-03	14015	-1.43	3.27E-09
12889	2.14	1.66E-31	13461	1.05	3.02E-06	14016	0.98	3.74E-05
12893	-1.43	2.19E-09	13470	-0.70	8.12E-03	14019	1.53	8.63E-15
12894	-1.54	1.36E-04	13472	-2.07	3.92E-07	14031	-1.40	1.20E-09
12902	-1.26	6.20E-08	13473	-1.62	2.60E-04	14038	-0.68	3.14E-03
12905	-2.20	5.95E-16	13476	0.55	5.69E-03	14050	0.93	2.64E-06
12907	1.10	1.51E-06	13485	2.05	1.98E-16	14052	-1.47	3.10E-10
12909	-1.19	1.92E-07	13491	-2.08	2.33E-03	14057	-0.85	5.18E-05
12917	0.83	8.28E-05	13492	1.76	6.71E-06	14071	-1.78	7.68E-15
12926	-1.14	2.75E-03	13495	0.91	5.44E-05	14079	1.70	9.93E-16
12927	-2.27	6.26E-23	13501	-0.91	2.98E-05	14081	-1.03	1.93E-03
12929	-1.51	6.03E-09	13512	1.34	2.71E-09	14083	-1.11	7.75E-03
12933	-1.60	4.76E-06	13517	-2.04	5.92E-11	14084	0.86	2.90E-03
12938	-1.88	6.87E-05	13519	1.30	2.76E-07	14086	-1.25	7.92E-09
12940	1.82	8.94E-16	13523	1.23	4.91E-06	14088	0.69	1.01E-03
12941	-1.10	5.23E-03	13526	0.87	5.43E-05	14090	-1.00	4.07E-03
12945	1.19	9.88E-07	13527	-2.06	2.91E-20	14093	0.93	8.66E-05
12946	-1.02	6.66E-03	13529	1.61	9.15E-10	14101	0.76	9.55E-03
12948	-1.32	2.66E-04	13538	-1.76	2.27E-11	14104	-0.73	4.40E-03
12952	1.52	1.11E-13	13540	-3.02	9.89E-06	14106	1.05	1.59E-08
12962	1.40	2.06E-04	13551	1.58	7.45E-08	14111	-1.68	5.47E-11

12963	-0.93	2.38E-05
12969	0.65	2.94E-05
12977	1.84	1.08E-12
12979	-1.43	8.54E-08
12987	0.69	1.12E-03
12993	1.38	1.07E-11
12994	-1.27	2.35E-08
12995	0.78	3.87E-04
12998	1.12	6.63E-07
13000	-2.06	7.48E-21
13001	-0.77	1.92E-03
13003	-1.57	4.33E-07
13006	0.70	3.24E-03
13009	-2.09	1.36E-15
13010	0.59	7.46E-03
13011	0.57	7.89E-03
13018	-0.95	3.13E-04
13020	0.63	2.38E-03
13022	-0.66	1.83E-03
13024	1.64	1.20E-05
13031	-1.39	1.13E-03
13038	1.88	1.66E-06
13040	-1.28	1.80E-04
13043	1.55	3.38E-14
13051	1.63	2.17E-16
13054	-0.71	5.01E-03
13060	0.84	1.09E-04
13063	-1.86	3.52E-09
13065	-1.79	3.01E-12
13070	-2.19	9.98E-04
13072	-1.49	2.20E-03
13075	1.55	4.40E-14
13083	-0.77	2.57E-03
13086	-3.54	6.86E-11
13089	-1.71	1.68E-06
13103	1.03	8.15E-06
13105	1.05	1.72E-04
13108	0.96	1.24E-05
13111	1.48	1.39E-12
13116	-0.99	5.78E-04

13553	0.90	9.98E-05
13554	-0.68	4.81E-03
13565	-1.45	1.32E-09
13567	0.65	3.80E-03
13575	2.18	9.31E-07
13578	1.80	1.26E-17
13584	-0.80	6.84E-04
13592	-1.47	9.31E-03
13600	1.25	8.15E-06
13608	1.69	3.51E-16
13609	1.52	1.87E-11
13611	-0.77	5.24E-04
13618	0.94	1.71E-05
13622	0.70	9.37E-03
13626	-2.34	1.44E-04
13629	2.26	1.62E-28
13631	-1.46	3.47E-07
13632	-1.16	4.66E-04
13635	-0.59	4.44E-03
13637	-0.81	1.30E-03
13642	0.95	2.27E-05
13646	0.99	5.90E-06
13656	-0.73	7.75E-05
13661	-1.44	4.59E-03
13663	-1.03	5.97E-05
13667	-1.12	3.97E-05
13668	1.77	6.25E-13
13676	1.27	9.22E-05
13687	-0.80	4.52E-04
13689	-1.66	4.35E-06
13700	-0.97	3.00E-05
13702	-0.99	9.24E-05
13707	-3.53	1.49E-12
13710	0.85	6.73E-06
13711	0.89	2.62E-03
13712	-0.85	6.84E-04
13713	-1.26	4.08E-08
13720	-1.06	1.93E-04
13727	-1.40	1.01E-06
13734	1.04	4.42E-06

14113	2.01	3.97E-21
14125	-1.12	3.00E-05
14130	1.11	7.56E-05
14131	-0.88	2.87E-05
14135	1.23	5.28E-04
14136	-0.88	2.98E-04
14151	-0.88	1.84E-04
14152	1.30	7.28E-06
14153	-1.17	7.08E-05
14154	-0.76	9.15E-04
14164	-0.96	3.42E-05
14170	1.47	1.62E-12
14178	-1.29	3.54E-13
14182	0.96	1.18E-06
14187	-1.49	4.19E-03
14189	1.58	1.11E-08
14191	-2.08	6.66E-16
14194	-2.35	1.69E-10
14195	-2.18	5.20E-15
14197	-2.17	1.22E-07
14206	1.39	2.83E-06
14213	0.93	2.34E-06
14222	-2.96	8.76E-10
14237	-2.22	2.07E-11
14244	-2.10	2.55E-25
14246	-1.86	4.99E-16
14253	1.60	1.92E-07
14256	1.60	1.13E-04
14259	-2.05	4.32E-06
14265	-1.14	4.82E-07
14269	0.86	1.93E-03
14270	0.77	6.04E-03
14273	-1.29	3.64E-08
14278	0.55	9.66E-03
14281	0.94	1.16E-03
14284	-2.04	1.49E-06
14295	1.00	5.92E-06
14296	-1.74	1.45E-15
14297	-0.81	2.60E-04
14300	-0.84	7.42E-04

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13122	-1.29	2.09E-05	13737	0.92	1.12E-04	14301	1.46	1.03E-14
13123	-0.91	5.91E-03	13740	0.61	5.58E-03	14306	1.16	1.20E-06
13124	-0.65	6.01E-05	13741	-1.19	1.40E-07	14307	1.88	2.86E-19
13126	-1.63	2.38E-11	13743	-1.18	1.91E-04	14309	1.37	1.12E-11
13128	-2.32	2.46E-07	13755	0.80	6.44E-03	14310	-1.19	1.62E-07
13132	0.58	7.13E-03	13760	-1.16	3.24E-07	14311	-0.88	2.66E-05
13139	1.87	1.18E-16	13763	-2.30	1.71E-07	14313	0.99	3.03E-06
13142	-2.66	8.11E-12	13766	-1.28	3.99E-06	14329	-0.85	1.90E-03
13143	1.93	1.24E-16	13767	-1.75	9.21E-16	14330	-1.59	2.69E-13
13149	1.84	1.27E-17	13772	1.44	2.00E-11	14333	0.73	6.79E-04
13151	-2.16	3.13E-08	13777	0.86	2.97E-03	14334	-1.15	2.16E-07
13153	-0.97	1.72E-05	13783	-1.12	4.71E-07	14342	0.95	4.35E-03
13154	-1.21	1.07E-07	13784	-1.53	9.31E-03	14369	1.96	4.78E-08
13161	-2.09	1.72E-21	13786	1.72	4.97E-06	14377	1.49	4.36E-12
11333	-0.34	5.00E-02	2438	-2.00	3.16E-04	4864	-1.70	1.90E-12
11401	0.30	5.00E-02	2442	1.40	7.07E-05	7219	-1.75	2.82E-10
11507	1.06	5.00E-02	2443	-1.40	1.35E-04	7223	-2.39	5.57E-17
11781	0.29	5.00E-02	2446	2.50	8.83E-31	7225	-2.25	2.08E-04
12021	-1.97	5.00E-02	2452	1.10	4.75E-04	7227	1.20	1.17E-06
12774	1.90	5.00E-02	2453	-1.10	3.85E-06	7228	1.23	6.23E-07
12974	-0.43	5.00E-02	2456	1.40	1.83E-06	7229	1.66	1.30E-13
12983	2.20	5.00E-02	2461	-2.10	3.21E-05	7230	0.71	1.78E-03
13391	-0.57	5.00E-02	2462	-1.10	6.31E-03	7231	1.09	3.61E-07
13487	-1.55	5.00E-02	2465	-2.00	9.40E-24	7232	-1.50	2.16E-11
13695	0.59	5.00E-02	2466	-1.30	7.16E-10	7233	0.68	1.39E-03
13850	-0.35	5.00E-02	4800	-2.90	8.06E-11	7239	-2.38	1.88E-06
14169	-1.60	5.00E-02	4801	-1.30	3.87E-10	7245	0.89	2.28E-09
14193	1.72	5.00E-02	4802	0.90	9.76E-05	7247	-1.19	4.71E-05
14211	-0.17	5.00E-02	4803	1.00	1.07E-06	7251	1.72	6.00E-14
14266	0.21	5.00E-02	4807	2.00	6.25E-19	7255	1.87	8.94E-11
14401	0.41	5.00E-02	4808	-0.90	7.86E-05	7271	-1.53	6.63E-13
14570	1.16	5.00E-02	4814	0.90	1.20E-04	7275	-1.92	5.67E-04
14821	2.31	5.00E-02	4821	-1.80	5.12E-08	7279	-1.41	1.18E-09
15185	-0.40	5.00E-02	4822	0.40	9.77E-03	7286	0.89	1.27E-03
15197	-1.63	5.00E-02	4827	1.70	1.12E-11	7289	1.12	1.34E-07
2407	1.40	6.12E-04	4832	0.80	1.01E-04	7293	-1.02	1.24E-05
2408	0.60	6.39E-03	4834	-3.20	2.39E-08	7304	-1.69	9.22E-06
2413	1.60	8.11E-14	4835	1.10	2.84E-04	7310	-1.27	8.58E-09
2414	1.60	4.91E-14	4839	-0.80	4.42E-07	7311	-1.32	1.42E-09

2421	-0.60	9.84E-03	4843	1.30	4.94E-10	9602	0.99	3.80E-03
2422	-1.50	3.86E-09	4847	1.00	8.25E-07	9609	1.15	5.39E-06
2423	0.70	4.20E-06	4849	-0.70	1.86E-03	9612	1.00	2.54E-03
2424	-2.10	1.27E-07	4852	0.80	2.10E-03	9614	-0.91	2.38E-03
2427	-1.60	8.12E-13	4854	-1.30	1.22E-07	9615	-1.09	2.12E-06
2432	1.20	4.77E-08	4857	-0.80	1.56E-03	9617	-1.89	2.52E-10
2433	1.60	1.11E-08	4858	-1.30	4.81E-08	9619	1.17	4.82E-05
2436	0.70	4.44E-05	4859	-1.00	3.50E-05	9622	1.01	2.71E-03
2437	-0.80	1.62E-03	4863	-1.70	4.22E-14	9624	1.03	6.45E-07

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7315	-1.04	7.54E-04	9673	1.77	4.11E-11
7316	-1.36	1.23E-06	9676	0.79	1.80E-04
7317	-1.30	4.71E-06	9680	1.80	4.38E-19
7319	-2.10	1.82E-04	9681	0.82	8.87E-03
7322	-0.82	2.01E-05	9682	-0.74	2.82E-04
7326	-1.41	6.57E-04	9685	-1.83	1.90E-09
7329	-3.19	5.12E-11	9686	-1.41	1.22E-03
7331	1.74	4.58E-10	9687	-1.12	7.69E-06
7335	-1.26	2.33E-04	9688	1.67	2.58E-15
7338	-1.20	4.92E-06	9689	-1.46	1.11E-03
7340	-0.98	4.63E-04	9691	-0.66	3.24E-03
7341	-1.90	1.38E-04	9693	0.64	4.03E-03
7345	1.77	3.55E-12	9694	1.48	8.26E-10
7351	0.60	6.77E-03	9695	-2.05	1.10E-05
7352	0.74	7.83E-04	9698	1.47	1.70E-11
7355	-0.73	3.51E-04	9699	-1.96	1.33E-11
7357	1.85	8.36E-17	9700	0.56	9.93E-03
7358	0.66	7.15E-03	9701	-1.20	1.06E-05
7359	-1.68	3.09E-03	9707	-1.27	3.20E-08
7360	-0.92	3.56E-03	9711	-0.85	1.17E-06
7362	-0.96	1.18E-03	9712	-2.59	2.12E-04
7367	-1.03	9.04E-06	9714	1.63	3.41E-15
7370	-1.15	9.20E-03	9715	-0.94	1.49E-05
7374	1.83	8.18E-20	9716	1.35	5.87E-10
7378	1.23	1.98E-04	9719	-0.69	1.14E-03
7386	-1.49	1.18E-11	9722	-1.10	1.06E-05
7388	-1.10	1.61E-06	9723	1.92	1.32E-08
7390	1.32	2.25E-05	9725	-1.24	7.09E-08
7392	-1.73	2.18E-03	9730	-2.86	8.64E-18
7396	1.66	2.77E-14	9732	-1.61	3.62E-05
7399	1.14	3.38E-03	9733	0.97	7.31E-06
7400	1.14	3.42E-03	9734	1.19	1.32E-04
7403	-1.15	4.73E-04	9736	-0.59	7.27E-03
7404	-1.15	4.63E-04	9738	-0.85	1.21E-03
7406	1.19	6.31E-06	9746	1.75	5.99E-12
7410	0.92	8.63E-05	9747	-2.54	1.33E-10

7412	-1.68	4.67E-07	9750	0.83	1.14E-04
7414	0.68	5.60E-05	9753	0.73	3.59E-03
7416	-0.85	3.79E-04	9755	0.62	5.78E-03
7421	-1.09	3.34E-06	9757	-2.90	1.25E-04
7424	1.73	1.09E-09	9766	1.51	1.42E-06
7426	0.95	1.71E-05	9767	-3.02	1.29E-06
7427	-1.50	9.48E-07	9769	1.52	3.69E-05
7429	1.08	3.60E-07	9770	0.72	3.77E-03
7430	-1.25	8.89E-09	9771	-1.26	4.30E-08
7431	1.12	5.50E-06	9774	-1.15	3.78E-06
7434	1.70	6.96E-21	9777	1.21	2.11E-03
7437	1.25	9.03E-10	9779	1.43	3.19E-05
7439	0.95	7.01E-04	9781	-1.36	1.23E-06
7441	-1.25	1.86E-07	9782	-1.50	3.14E-11
7443	-2.11	7.78E-05	9788	1.34	1.70E-05
7447	-1.09	1.22E-06	9789	1.01	2.44E-05
7448	-1.85	9.61E-18	9796	-1.83	1.60E-03
7449	-1.12	1.21E-05	9808	-0.69	1.67E-03
7450	-1.22	3.89E-04	9809	0.83	7.42E-04
7453	-0.57	7.51E-03	9813	0.63	3.34E-03
7454	-0.77	1.71E-03	9815	0.98	4.19E-06
7460	1.80	5.26E-16	9817	0.55	6.81E-04
7462	0.81	6.71E-04	9818	0.59	2.83E-04
7464	-1.79	3.59E-09	9819	-1.05	6.30E-06
7468	1.21	1.98E-08	9820	0.80	9.85E-03
7471	-1.27	2.67E-07	9825	-1.12	6.93E-06
7472	1.09	5.23E-06	9833	-2.09	2.38E-04
7476	-2.13	1.00E-05	9837	-1.01	2.11E-03
7478	-2.53	7.51E-07	9838	-1.18	5.37E-08
7490	-0.94	4.36E-06	9844	1.41	6.63E-07
7493	1.51	1.59E-12	9847	1.58	9.43E-12
7495	-0.90	3.26E-03	9848	1.50	1.97E-06
7496	-1.14	3.20E-07	9851	-2.80	1.96E-09
7497	1.29	9.43E-11	9854	-1.18	6.36E-03
7500	1.14	5.25E-03	9855	0.69	2.07E-03
7502	-0.85	2.71E-04	9857	-1.02	4.44E-03
7503	-1.18	2.41E-06	9858	-1.07	3.13E-07
7504	-1.87	4.13E-06	9859	-1.72	1.44E-13
7505	0.57	9.35E-03	9860	-1.77	1.90E-07

7506	-1.68	4.61E-15	9862	0.87	9.91E-03
7507	-1.85	1.09E-10	9863	-1.67	8.04E-09
7508	-1.33	1.35E-04	9866	-0.60	5.56E-03
7509	1.06	3.40E-07	9867	-1.71	1.19E-12
7515	-2.73	8.03E-18	9868	-2.19	1.94E-13
7516	-2.69	1.71E-18	9869	-1.54	2.20E-06
7520	0.60	5.69E-03	9874	-1.56	3.04E-12
7524	-1.34	5.79E-08	9876	1.02	9.38E-07
7525	-1.39	2.00E-08	9879	1.03	8.02E-07
7530	0.70	1.52E-03	9882	0.91	5.03E-05
7532	-1.83	6.64E-08	9889	1.40	2.75E-08
7533	1.57	2.28E-11	9891	1.06	1.43E-06
7537	0.56	2.20E-04	9892	-0.81	6.53E-03
7540	0.67	3.94E-03	9894	-1.24	2.75E-08
7543	-0.65	8.92E-03	9895	-0.81	7.10E-03
7545	1.44	2.80E-10	9899	0.88	2.50E-05
7547	-0.73	7.60E-04	9900	-1.24	8.54E-04
7548	-1.75	9.12E-14	9905	1.37	4.19E-05
7549	-1.77	2.05E-13	9908	1.21	2.09E-08
7553	1.26	4.78E-03	9914	-2.22	1.24E-04
7559	1.16	6.36E-08	9917	-1.57	1.56E-08
7560	1.54	9.74E-14	9919	0.93	1.76E-05
7561	0.87	4.78E-05	9924	1.02	1.37E-06
7564	-1.24	1.54E-08	9925	0.86	7.40E-05
7565	-1.69	6.79E-06	9927	1.28	1.99E-06
7568	1.77	6.92E-12	9932	-1.00	1.45E-03
7569	1.16	9.21E-08	9933	1.32	4.41E-03
7570	-2.15	4.42E-27	9945	-1.67	8.08E-15
7571	1.51	3.40E-21	9946	2.48	4.33E-34
7572	0.75	4.28E-04	9949	-0.95	9.92E-03
7573	2.05	1.16E-19	9950	-0.79	1.57E-03
7575	-1.58	3.32E-04	9952	1.38	1.63E-06
7578	-2.16	3.12E-13	9956	1.47	1.46E-07
7579	-0.89	8.27E-05	9957	-1.80	1.29E-11
7580	1.11	2.60E-07	9959	1.80	4.38E-19
7582	-1.68	1.13E-11	9961	1.47	1.52E-12
7584	1.05	5.75E-06	9963	-0.57	8.28E-03
7588	-0.79	2.47E-04	9964	1.70	9.84E-11
7591	-0.89	5.42E-03	9967	-0.62	9.41E-03
7594	-0.76	1.95E-03	9973	-0.97	9.90E-04

7597	-0.84	6.41E-05	9975	-0.74	2.64E-05
7599	0.59	6.37E-03	9981	-0.96	6.25E-06
7601	-2.10	9.78E-13	9982	-1.34	5.89E-10
7603	-0.84	1.08E-03	9984	0.66	1.90E-03
7605	-1.91	1.89E-12	9989	1.10	5.94E-06
7606	1.06	2.24E-06	9992	-1.36	7.64E-04
7611	-0.70	1.27E-03	9993	-1.08	5.48E-12
7612	1.06	7.42E-03	9994	1.04	1.00E-06
7619	1.38	7.90E-08	9995	2.47	2.72E-35
7629	0.95	3.49E-03	9996	-0.60	6.98E-03
7630	-1.67	1.84E-03	10000	-0.92	7.49E-05
7635	-1.33	3.82E-05	10001	0.67	3.18E-03
7639	-0.58	7.43E-03	10006	-0.92	3.75E-05
7642	-1.18	2.05E-09	10010	-0.76	7.16E-04
7643	1.20	5.95E-09	10011	-1.57	7.04E-12
7644	-1.39	1.67E-12	10015	-0.86	1.64E-05
7645	-1.40	7.69E-04	10020	0.62	1.17E-03
7648	-3.12	6.53E-11	10021	-1.22	1.58E-06
7649	-1.99	7.00E-11	10023	-1.11	3.17E-07
7656	0.65	1.47E-03	10026	-0.88	9.60E-05
7657	0.81	6.66E-05	10032	1.40	1.42E-03
7658	-2.91	1.00E-05	10035	1.05	7.20E-06
7659	-2.31	6.44E-14	10036	-1.19	1.63E-07
7660	2.07	8.91E-17	10039	-1.90	3.86E-14
7665	1.72	4.58E-16	10041	1.34	1.80E-05
7666	-1.27	7.98E-09	10043	-1.84	1.51E-03
7668	-1.08	6.87E-03	10044	0.75	4.30E-04
7672	0.71	6.59E-04	10053	-1.36	1.34E-04
7676	-1.44	6.08E-06	10056	1.12	3.25E-06
7681	-1.32	3.03E-04	10059	-0.93	3.65E-05
7689	2.45	6.88E-33	10061	0.98	3.22E-03
7690	-2.10	1.82E-20	10062	-2.03	4.80E-22
7691	-2.12	6.40E-21	10064	-1.81	4.69E-03
7693	-1.63	7.42E-07	10066	-1.56	2.43E-13
7694	-2.36	5.27E-04	10069	-0.75	7.07E-04
7699	0.81	1.56E-03	10074	-1.41	1.72E-04
7701	-1.12	2.93E-07	10076	-0.83	5.72E-05
7702	0.78	2.25E-04	10077	-1.20	1.07E-12
7703	0.66	3.28E-03	10079	1.86	1.18E-10

7708	-1.01	1.08E-05	10080	-1.40	2.44E-07
7721	-2.81	3.87E-18	10082	-0.86	9.91E-05
7722	-4.45	9.49E-17	10084	2.08	6.10E-16
7725	0.95	1.82E-07	10092	-2.36	1.31E-23
7726	1.01	1.17E-03	10095	1.35	1.08E-17
7727	1.28	4.23E-10	10096	0.74	4.35E-04
7729	1.00	9.35E-05	10098	1.29	8.05E-05
7730	-0.67	2.67E-03	10101	0.73	9.91E-03
7732	-0.83	5.51E-04	10102	1.83	1.84E-13
7736	-1.54	4.25E-03	10103	-1.14	9.46E-07
7737	-1.75	2.09E-16	10104	-1.28	5.45E-09
7738	1.08	2.36E-09	10107	-0.93	5.85E-05
7739	0.61	4.62E-03	10114	1.70	2.25E-10
7742	-1.33	2.08E-08	10115	-0.72	3.13E-03
7743	0.70	1.10E-03	10117	-1.21	6.07E-08
7745	1.28	8.30E-10	10119	-1.39	1.33E-10
7746	1.32	3.43E-03	10124	-1.63	2.99E-13
7747	1.03	1.74E-06	10127	-2.02	2.27E-08
7748	-2.21	1.04E-04	10132	0.97	6.73E-05
7749	-1.11	1.08E-05	10134	-1.67	3.34E-03
7750	1.58	4.14E-08	10135	-0.98	6.86E-03
7751	1.51	3.32E-08	10138	-2.39	6.82E-07
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7754	0.99	1.58E-06	10148	-1.32	8.44E-09
7755	0.81	6.82E-08	10150	-0.89	2.54E-05
7759	-1.14	1.25E-07	10156	-2.01	6.54E-06
7767	-0.70	4.58E-03	10157	-0.74	7.17E-04
7770	1.11	8.22E-05	10160	2.28	3.38E-31
7773	0.93	3.38E-03	10161	-2.72	1.26E-15
7774	0.78	1.37E-03	10162	-2.22	1.26E-21
7777	-2.02	3.22E-18	10163	1.16	1.28E-07
7779	-2.13	1.09E-03	10165	0.88	4.41E-05
7782	-1.09	8.27E-06	10174	0.63	1.75E-03
7785	-1.50	8.99E-06	10175	0.63	1.79E-03
7788	1.15	1.08E-07	10176	0.85	5.03E-05
7789	0.96	1.86E-05	10177	1.85	7.11E-18
7810	-1.74	2.91E-13	10183	-2.34	2.07E-04
7812	-1.70	5.67E-04	10187	-1.00	1.91E-07
7813	-1.60	8.48E-04	10193	-0.72	6.85E-03

7814	-0.77	6.04E-04	10194	-1.37	1.20E-08
7815	-1.07	4.09E-05	10195	1.53	1.02E-06
7816	-1.41	4.04E-08	10196	-2.07	1.33E-03
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7822	-2.81	1.04E-37	10199	2.03	1.89E-23
7823	1.34	5.05E-11	10200	2.30	2.22E-26
7826	0.91	1.91E-04	10208	0.96	2.35E-05
7827	-1.44	1.48E-08	10212	-1.71	4.91E-08
7828	-2.01	1.55E-11	10222	-1.55	3.50E-03
7830	-0.93	2.13E-05	10233	0.66	2.98E-03
7837	1.04	5.63E-05	10245	0.74	2.89E-03
7841	1.37	6.11E-05	10253	0.67	8.25E-03
7843	1.63	1.17E-13	10257	1.26	1.50E-04
7844	-0.80	2.64E-04	10258	-1.66	1.54E-08
7854	-3.16	1.40E-13	10261	0.79	2.79E-03
7856	-1.08	2.78E-06	10266	0.67	1.56E-03
7857	-1.43	4.91E-05	10268	-0.79	2.31E-04
7858	-2.12	1.28E-18	10269	-2.06	2.20E-06
7860	-1.99	8.75E-11	10271	-0.49	1.26E-03
7861	-1.52	1.29E-07	10272	1.02	9.76E-05
7862	1.06	6.28E-07	10274	-2.03	3.52E-11
7863	2.16	2.73E-23	10276	-2.36	1.45E-03
7869	-3.00	1.81E-05	10277	-1.01	7.73E-03
7871	2.31	1.89E-24	10280	0.79	5.67E-04
7873	0.99	5.61E-06	10282	1.40	1.13E-03
7874	0.60	8.17E-03	10283	-1.56	1.16E-08
7876	-1.14	4.70E-07	10286	-1.26	8.34E-07
7877	-0.75	8.42E-04	10289	-1.16	7.52E-05
7879	-1.85	6.23E-13	10290	0.89	6.04E-05
7888	1.07	5.36E-07	10291	-1.65	1.39E-13
7889	-1.23	1.59E-08	10292	-1.27	1.11E-03
7891	-1.29	5.57E-09	10293	1.46	1.37E-04
7894	1.18	1.69E-06	10298	1.38	2.76E-03
7899	-0.68	2.13E-03	10299	1.64	3.41E-10
7900	-2.75	9.37E-13	10300	-1.20	1.15E-06
7901	0.78	6.15E-04	10301	1.25	1.19E-06
7910	0.89	7.18E-03	10302	1.17	1.99E-08
7911	-1.93	5.51E-04	10304	-1.28	4.00E-08
7914	0.82	2.08E-04	10305	-1.52	5.96E-12
7915	0.90	4.29E-05	10307	-1.45	7.37E-03

7916	0.87	6.69E-05	10311	-1.98	8.43E-05
7917	1.49	8.54E-04	10315	-1.68	4.89E-07
7921	-1.69	8.46E-07	10317	-1.04	3.83E-05
7927	1.39	2.79E-10	10323	-0.72	1.44E-03
7939	1.52	2.30E-12	10324	-0.72	5.58E-04
7941	1.31	8.65E-08	10327	-1.26	2.13E-05
7942	-1.20	4.63E-08	10331	1.01	3.82E-05
7949	-1.03	4.81E-05	10333	1.11	1.88E-07
7950	-1.73	1.03E-13	10341	-2.32	7.90E-19
7956	-1.56	1.18E-08	10342	1.29	3.64E-07
7964	0.95	4.27E-06	10343	1.17	1.63E-07
7965	2.42	7.95E-34	10346	-1.91	3.98E-03
7966	-1.69	1.63E-10	10353	1.34	1.57E-05
7974	1.17	1.26E-05	10355	0.71	1.80E-03
7981	1.31	2.47E-07	10357	0.88	4.93E-04
7982	1.83	2.70E-16	10358	-1.94	1.78E-09
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8008	-0.98	1.52E-04	10368	1.42	1.40E-07
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8012	-2.43	4.29E-12	10370	1.74	1.65E-17
8015	0.98	3.40E-03	10371	-0.60	6.78E-03
8018	2.15	9.24E-13	10372	-0.54	6.61E-04
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8024	-2.12	3.58E-19	10374	-1.04	9.20E-07
8025	-3.20	6.88E-14	10375	-1.84	2.09E-10
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8037	-2.65	1.44E-13	10387	-1.15	3.01E-07
8040	1.71	1.23E-09	10396	-2.20	8.59E-13
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8053	-0.72	1.64E-03	10409	1.06	7.43E-07
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8075	-1.23	6.61E-09	10436	-3.19	1.04E-11
8083	-0.94	4.13E-05	10438	2.56	4.32E-40
8084	1.22	9.93E-09	10441	1.06	3.64E-06
8085	-1.43	3.50E-08	10444	-2.76	2.46E-21
8086	0.96	9.05E-06	10448	-1.16	2.00E-06
8087	-1.26	5.82E-08	10449	-0.89	9.00E-05
8088	0.76	6.79E-03	10453	-2.42	1.52E-04
8089	1.18	7.70E-07	10454	1.46	5.39E-13
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8174	1.31	8.83E-05	10555	1.65	2.44E-08
8184	-0.91	4.01E-04	10558	-0.81	5.13E-04
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8190	-2.04	2.13E-06	10563	-1.58	4.04E-06
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8194	-2.10	5.04E-09	10572	-0.95	2.30E-04
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8318	-1.71	1.89E-15	10741	-1.01	2.51E-03
8319	0.63	1.84E-03	10744	-2.05	2.02E-06
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8340	-1.83	1.14E-07	10791	-1.00	5.09E-06
8341	1.23	1.26E-08	10792	-0.94	1.46E-04
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8346	-1.89	1.21E-03	10801	-0.61	7.30E-03
8348	0.89	1.51E-04	10802	1.63	9.38E-08
8351	1.84	7.27E-19	10805	-1.43	1.36E-03
8353	-2.08	2.53E-21	10807	-1.22	5.61E-08
8358	-1.02	7.27E-05	10811	-2.07	4.24E-07
8359	0.94	2.25E-05	10818	-1.23	7.00E-08
8360	0.85	6.68E-04	10820	-1.13	2.97E-04
8361	0.99	1.03E-05	10821	-0.92	5.18E-04
8363	-0.89	3.26E-03	10837	1.74	5.30E-17
8365	-1.95	1.47E-14	10838	1.93	4.71E-21
8366	-1.94	1.79E-14	10842	0.81	1.23E-03
8367	-0.98	4.09E-08	10850	-1.05	6.34E-07
8368	-0.85	4.73E-05	10854	-1.25	3.12E-03
8377	0.81	1.92E-04	10865	1.08	2.09E-06

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1552	-0.20	1.13E-04	1804	0.20	8.15E-04	2078	0.30	6.42E-12	2358	-0.10	3.89E-03
1554	-0.20	4.51E-03	1805	0.10	8.97E-03	2089	0.20	5.41E-03	2362	0.20	2.21E-06
1558	-0.20	1.77E-09	1814	0.20	8.28E-03	2090	0.20	7.46E-08	2369	0.20	1.00E-05
1561	0.10	3.97E-04	1815	0.20	1.09E-03	2092	0.10	1.89E-03	2379	-0.10	3.94E-03
1562	-0.10	3.50E-03	1816	-0.20	7.13E-04	2093	0.10	3.22E-03	2388	0.10	3.32E-03
1569	0.20	9.29E-06	1820	0.20	2.13E-04	2107	-0.30	1.54E-12	2389	0.20	1.12E-07
1570	0.20	2.13E-05	1824	0.10	3.38E-03	2108	-0.30	5.35E-04	2390	0.20	3.77E-05
1571	0.10	1.26E-04	1825	0.10	2.70E-04	2116	0.20	7.51E-04	2391	0.20	1.91E-05
302											
1573	-0.20	1.16E-06	1827	0.20	5.93E-14	2118	-0.20	2.33E-04	2399	0.20	5.72E-05
2657	-0.10	5.11E-03	2967	0.10	5.44E-03	3193	-0.30	2.21E-04	3511	-0.20	6.00E-04
2664	-0.10	5.63E-03	2968	0.10	7.38E-03	3194	-0.30	1.77E-04	3522	0.30	5.59E-05
2665	-0.10	2.39E-03	2971	0.10	5.58E-04	3196	0.20	2.75E-04	3530	0.10	8.27E-05
2668	0.10	3.85E-04	2987	0.20	1.74E-03	3206	-0.30	7.03E-04	3535	-0.20	6.04E-03
2673	0.20	2.37E-04	2988	0.20	1.89E-03	3213	0.30	1.59E-05	3538	0.20	1.26E-04
2686	-0.20	5.82E-07	2995	-0.20	3.49E-05	3217	0.20	1.79E-07	3539	-0.20	1.49E-06
2687	-0.10	3.72E-05	2996	-0.10	2.61E-04	3218	0.20	1.80E-05	3550	-0.10	5.72E-03
2688	0.10	8.26E-05	2997	-0.10	1.59E-03	3234	-0.20	4.62E-06	3563	0.20	1.37E-03
2694	-0.20	2.20E-03	3003	-0.30	5.27E-05	3239	0.20	8.18E-04	3568	-0.20	2.14E-05
2696	-0.20	1.03E-10	3008	-0.20	1.34E-04	3240	0.20	7.81E-04	3569	-0.10	3.28E-04
2698	-0.10	8.62E-04	3015	-0.10	3.95E-03	3241	0.20	1.95E-09	3570	-0.20	7.90E-04
2703	0.20	2.58E-05	3021	-0.20	1.85E-08	3245	-0.20	1.17E-05	3575	0.20	1.08E-03
2705	0.20	1.15E-06	3022	-0.20	7.77E-05	3248	0.20	1.79E-04	3578	-0.20	8.92E-04
2711	0.30	2.25E-03	3027	0.20	2.15E-04	3250	-0.10	5.89E-04	3579	-0.10	1.67E-04
2713	-0.10	5.42E-04	3031	-0.20	2.74E-03	3254	0.20	7.34E-04	3586	-0.20	6.29E-08
2731	0.10	6.76E-03	3033	0.20	9.94E-03	3258	-0.10	1.46E-04	3590	0.20	6.97E-07
2734	0.10	6.39E-04	3034	-0.40	1.07E-15	3263	-0.10	9.89E-04	3591	-0.20	9.88E-03
2735	-0.20	1.93E-06	3035	-0.20	2.27E-04	3270	0.10	1.85E-03	3593	0.30	2.10E-11
2736	-0.20	1.78E-05	3036	-0.20	9.26E-05	3272	-0.30	9.66E-07	3594	-0.20	7.93E-07
2752	0.20	2.99E-03	3037	0.10	1.40E-04	3275	0.20	1.09E-06	3596	0.20	7.73E-08
2754	-0.30	1.93E-12	3039	-0.20	7.17E-07	3276	0.10	8.88E-06	3604	-0.10	1.46E-03
2755	-0.10	1.47E-04	3040	0.10	5.01E-03	3277	0.20	6.67E-06	3606	-0.20	1.44E-08
2756	0.20	3.70E-12	3044	0.20	4.88E-07	3281	0.20	6.87E-04	3613	-0.10	7.45E-05
2760	0.20	1.58E-05	3048	-0.20	1.12E-05	3295	-0.10	5.79E-04	3614	0.20	7.37E-05
2761	0.20	1.59E-05	3050	0.30	1.76E-09	3312	0.20	4.40E-06	3618	-0.30	2.99E-15
2777	0.20	3.27E-04	3051	0.10	6.20E-04	3313	0.20	4.15E-05	3625	-0.10	3.78E-05
2778	-0.30	1.41E-18	3053	-0.20	1.43E-05	3317	-0.10	9.06E-04	3629	-0.10	1.21E-03
2779	0.30	3.04E-16	3057	0.20	1.01E-05	3321	-0.30	1.32E-13	3647	0.10	1.10E-03
2780	0.20	3.26E-07	3062	0.10	9.94E-03	3322	0.10	1.30E-03	3649	-0.10	2.08E-03
2781	-0.20	4.59E-04	3066	-0.20	6.06E-06	3328	-0.10	2.13E-03	3653	-0.10	3.57E-03

2782	-0.10	5.70E-04	3068	-0.20	2.70E-08	3335	0.20	7.54E-03	3658	-0.20	2.08E-04
2786	-0.10	4.34E-04	3072	-0.20	2.85E-03	3337	0.10	1.49E-03	3660	0.10	1.14E-04
2792	0.20	1.07E-05	3079	0.10	1.71E-03	3341	0.20	1.17E-07	3661	0.10	7.69E-03
2799	-0.20	6.41E-07	3082	-0.10	1.26E-04	3353	-0.20	1.51E-08	3676	-0.10	1.92E-04
2815	0.10	3.82E-03	3089	0.20	2.83E-06	3357	0.20	1.38E-06	3684	-0.10	6.33E-03
2820	0.10	2.89E-03	3100	0.20	1.85E-05	3358	-0.10	4.44E-03	3695	0.20	9.06E-04
2829	0.10	1.38E-03	3108	-0.10	1.08E-03	3371	-0.20	2.03E-08	3697	0.10	6.58E-03
2830	0.10	3.03E-03	3111	-0.10	5.41E-03	3379	0.40	4.12E-11	3700	-0.20	1.85E-05
2836	-0.20	7.81E-05	3113	0.20	5.55E-06	3390	-0.20	2.75E-03	3702	-0.10	9.83E-05
2838	0.20	2.14E-04	3118	0.10	5.94E-03	3394	-0.20	8.64E-05	3703	-0.10	1.25E-03
2841	0.20	4.42E-03	3124	0.10	1.61E-04	3395	-0.20	6.58E-04	3704	-0.20	6.21E-06
2843	-0.10	4.80E-03	3125	0.20	1.40E-09	3396	0.10	5.39E-03	3705	-0.20	7.28E-06
2844	0.20	4.83E-03	3129	-0.20	7.49E-06	3407	-0.10	1.83E-03	3706	0.20	1.14E-08
2845	0.20	1.31E-03	3132	-0.10	1.79E-03	3417	-0.20	1.47E-11	3714	0.10	7.97E-03
2848	0.20	7.32E-06	3139	0.20	1.46E-04	3420	-0.10	1.05E-03	3722	-0.20	1.22E-11
2850	0.20	7.27E-04	3140	-0.20	1.48E-06	3427	0.20	4.36E-07	3723	0.30	5.57E-05
2860	-0.20	4.79E-03	3141	-0.20	1.37E-06	3441	-0.20	3.19E-03	3728	-0.20	1.21E-04
2866	-0.10	8.59E-03	3143	0.20	1.98E-04	3445	-0.30	1.30E-04	3729	0.20	4.03E-08
2872	-0.20	2.42E-05	3144	0.20	1.93E-07	3448	-0.10	6.59E-03	3734	-0.20	3.84E-05
2885	-0.20	1.71E-04	3145	0.20	2.90E-07	3451	-0.20	4.25E-04	3736	-0.10	6.74E-03
2888	0.20	1.88E-08	3151	0.20	5.77E-03	3457	0.20	2.71E-05	3742	0.20	1.58E-05
2890	-0.20	9.93E-08	3152	-0.20	2.25E-06	3460	0.20	1.18E-03	3752	0.20	2.19E-11
2901	0.20	1.86E-07	3154	-0.20	4.41E-07	3467	-0.10	8.44E-04	3759	0.20	4.27E-08
2909	0.20	2.84E-07	3165	0.20	6.78E-05	3470	-0.30	1.73E-04	3760	-0.20	3.16E-06
2914	-0.10	2.25E-03	3166	0.20	1.82E-10	3479	0.20	5.27E-03	3765	0.10	1.11E-03
2922	-0.20	5.85E-04	3167	0.20	6.57E-05	3483	-0.30	2.28E-06	3768	0.30	2.13E-03
2924	-0.20	6.73E-08	3168	-0.10	1.17E-03	3484	0.10	2.78E-03	3770	0.20	2.40E-05
2930	0.10	2.44E-03	3170	-0.20	3.57E-04	3485	0.20	1.28E-05	3771	0.10	9.57E-04
2933	-0.10	9.46E-05	3177	0.20	4.89E-04	3490	-0.20	1.25E-03	3772	0.20	6.59E-07
2944	0.20	1.11E-05	3183	0.30	1.33E-14	3492	-0.10	2.59E-03	3775	-0.20	1.77E-03
2946	-0.20	4.09E-05	3184	-0.30	6.30E-13	3499	-0.20	6.31E-06	3776	0.10	5.10E-04
2955	0.20	1.58E-03	3188	0.10	6.47E-03	3502	0.20	7.65E-04	3779	-0.10	1.03E-03
303											
2959	0.20	4.92E-09	3189	0.10	2.52E-04	3506	0.10	3.44E-03	3780	-0.10	7.73E-03
2962	-0.10	2.58E-04	3190	-0.20	3.44E-03	3510	0.10	6.71E-03	3784	-0.10	2.47E-03
4077	0.10	1.08E-03	4314	-0.20	2.47E-06	4536	-0.20	3.76E-08	4762	-0.10	1.78E-03
4079	-0.20	3.70E-04	4315	0.10	5.37E-03	4542	-0.30	1.23E-12	4770	0.20	2.90E-06
4081	-0.10	4.03E-04	4317	0.10	4.96E-03	4543	-0.20	4.70E-05	4771	0.20	1.03E-04
4082	-0.20	1.76E-06	4321	0.20	6.36E-04	4549	-0.20	1.76E-03	4781	-0.20	3.37E-07
4084	-0.20	1.64E-08	4322	0.10	7.02E-04	4555	0.30	8.75E-03	4796	0.10	6.98E-03

4088	0.20	2.93E-06	4327	-0.10	5.38E-04	4556	0.20	4.53E-05	4800	0.20	1.10E-03
4090	0.20	6.16E-05	4332	0.10	3.60E-04	4562	0.20	4.00E-09	4801	0.10	4.45E-04
4091	0.30	5.90E-03	4333	0.20	2.86E-06	4569	-0.20	3.94E-06	4803	-0.20	3.14E-06
4096	-0.10	2.18E-03	4334	-0.30	3.86E-19	4570	0.20	1.86E-03	4807	-0.20	4.29E-06
4097	0.30	7.88E-12	4335	-0.20	7.20E-05	4571	0.20	1.85E-03	4808	0.20	3.16E-08
4106	0.10	3.41E-04	4336	-0.20	7.41E-07	4575	0.10	4.68E-04	4821	0.20	3.05E-04
4115	-0.20	2.12E-05	4342	0.10	2.29E-03	4580	0.20	2.04E-04	4827	-0.20	1.56E-03
4117	-0.10	6.02E-04	4350	-0.10	6.96E-03	4581	-0.20	3.43E-06	4832	-0.20	4.85E-08
4120	0.20	7.02E-07	4351	0.20	5.71E-05	4582	-0.20	1.01E-05	4834	0.20	4.50E-04
4121	0.10	9.72E-04	4352	-0.10	2.65E-05	4583	-0.20	2.05E-09	4838	-0.10	4.63E-03
4128	-0.20	8.83E-04	4358	-0.40	2.03E-09	4589	-0.20	1.42E-06	4855	0.20	4.15E-06
4137	-0.20	4.90E-04	4359	-0.30	1.59E-05	4596	0.30	1.12E-09	4858	0.20	2.40E-09
4140	-0.10	7.71E-03	4363	-0.20	6.20E-06	4602	-0.20	3.26E-08	4879	0.20	1.71E-05
4144	-0.20	7.49E-06	4369	0.20	6.49E-05	4606	0.20	1.71E-06	4880	0.30	3.37E-05
4150	0.10	2.02E-04	4374	0.10	9.13E-03	4607	0.20	1.56E-06	4894	0.20	1.30E-05
4155	-0.30	1.54E-11	4380	-0.10	8.73E-04	4608	0.20	4.85E-05	4896	-0.10	2.40E-03
4156	-0.20	2.39E-06	4387	0.10	7.19E-04	4610	-0.20	2.17E-08	4898	-0.10	1.31E-06
4159	-0.20	1.12E-04	4389	-0.20	5.07E-03	4612	0.30	1.25E-06	4900	0.20	8.84E-06
4163	0.20	1.35E-03	4390	0.10	4.41E-03	4614	0.20	4.55E-08	4901	-0.20	9.98E-06
4165	0.20	1.07E-09	4391	0.10	4.10E-03	4616	0.10	4.41E-05	4904	0.20	3.77E-07
4166	0.30	6.56E-15	4396	-0.20	9.31E-11	4619	0.10	4.22E-05	4905	0.20	2.59E-03
4167	-0.40	4.60E-10	4398	0.20	1.54E-06	4622	0.20	9.71E-09	4908	0.10	7.07E-04
4179	0.10	8.49E-03	4399	-0.30	7.75E-06	4623	0.10	3.19E-03	4909	0.20	1.60E-06
4186	0.20	8.09E-05	4400	0.20	1.10E-03	4627	0.20	3.26E-05	4911	-0.10	6.13E-04
4187	-0.30	1.56E-08	4401	0.10	2.93E-03	4629	-0.20	3.23E-07	4916	0.20	8.36E-05
4196	-0.20	5.76E-06	4405	0.20	3.92E-06	4638	0.10	3.40E-04	4920	-0.10	1.15E-03
4197	0.10	7.33E-03	4409	0.20	1.00E-06	4639	0.20	2.21E-04	4927	-0.20	5.85E-09
4199	-0.20	2.81E-06	4414	-0.10	9.85E-03	4643	-0.20	1.55E-07	4929	0.10	1.20E-04
4202	-0.10	3.39E-04	4415	0.20	2.03E-09	4647	-0.10	2.14E-03	4936	0.20	1.95E-04
4204	0.10	4.05E-03	4420	0.20	7.36E-08	4650	-0.10	4.69E-03	4937	-0.20	9.50E-07
4211	-0.20	8.35E-06	4422	0.10	3.95E-03	4651	-0.20	1.28E-05	4942	0.10	1.80E-03
4212	0.30	5.48E-12	4427	0.20	1.94E-04	4654	0.30	1.71E-09	4943	0.10	2.73E-03
4214	0.20	6.88E-04	4430	-0.10	1.09E-04	4662	0.20	3.31E-08	4946	0.10	2.92E-03
4219	-0.20	9.03E-04	4445	-0.20	6.70E-06	4664	-0.20	2.89E-12	4958	-0.10	2.27E-04
4227	-0.20	4.13E-03	4446	0.10	7.65E-04	4670	0.20	6.02E-05	4960	-0.20	7.72E-03
4230	0.20	1.12E-03	4451	-0.10	3.92E-03	4671	0.10	1.26E-03	4973	-0.10	3.01E-03
4231	-0.10	3.85E-04	4452	-0.10	3.43E-03	4679	0.20	7.45E-08	4974	-0.10	3.94E-03
4234	0.10	1.31E-03	4455	0.10	4.97E-03	4683	0.10	1.68E-03	4977	0.20	3.72E-06
4238	0.10	9.42E-03	4467	-0.20	6.20E-05	4686	-0.20	4.06E-05	4980	0.10	9.98E-03
4239	0.20	1.64E-03	4468	0.20	3.29E-05	4689	0.20	2.03E-07	4981	-0.10	5.24E-03

4241	-0.20	3.11E-03	4476	0.10	2.27E-04	4690	0.30	7.35E-10	4991	0.20	1.18E-08
4245	0.20	5.84E-04	4478	0.10	6.60E-03	4693	0.30	3.24E-04	4996	0.20	7.93E-05
4246	0.20	5.90E-08	4483	-0.10	5.10E-04	4694	0.10	1.61E-03	5003	0.30	1.01E-07
4248	0.20	9.52E-03	4486	-0.20	7.94E-04	4696	0.20	1.38E-06	5004	0.20	1.22E-03
4265	-0.20	6.47E-05	4487	-0.20	9.32E-09	4702	-0.10	1.57E-03	5005	0.20	1.22E-03
4268	0.20	2.82E-05	4491	-0.10	5.98E-03	4708	0.30	5.08E-06	5013	-0.20	2.55E-08
4269	-0.20	2.24E-05	4493	0.20	9.05E-07	4710	-0.10	2.83E-03	5016	0.10	3.04E-04
4270	0.20	3.65E-06	4499	0.20	1.05E-03	4714	-0.10	2.01E-03	5025	-0.20	1.28E-08
4272	-0.10	2.80E-04	4502	-0.10	9.64E-04	4726	-0.20	1.66E-04	5026	0.10	2.72E-03
4276	0.20	5.37E-06	4503	-0.10	6.54E-03	4732	-0.10	1.88E-04	5032	-0.20	2.20E-03
4278	0.10	1.13E-03	4508	0.10	3.64E-04	4733	-0.20	5.86E-03	5036	-0.10	1.12E-04
4281	0.10	2.78E-03	4512	0.20	7.96E-05	4735	0.10	6.68E-05	5046	0.20	1.52E-08
4284	0.10	6.72E-03	4515	-0.10	1.60E-03	4746	-0.20	7.42E-07	5047	-0.20	3.30E-03
4289	-0.20	1.25E-04	4522	-0.30	1.18E-06	4748	0.20	2.70E-04	5055	-0.10	3.73E-03
4293	-0.30	2.57E-04	4523	-0.10	1.93E-03	4756	-0.20	6.38E-13	5060	-0.10	4.12E-03
4297	-0.30	2.74E-10	4528	0.20	1.83E-05	4757	0.10	2.60E-03	5061	0.30	2.17E-06
304											
4301	0.20	8.47E-04	4529	0.20	5.49E-03	4758	0.20	2.52E-04	5063	0.20	1.65E-05
4308	0.20	7.39E-03	4530	-0.20	4.05E-03	4760	0.30	8.93E-11	5066	0.10	3.29E-03
4313	-0.10	4.64E-04	4534	-0.10	2.27E-03	4761	0.30	7.16E-11	5069	-0.20	3.80E-08
5639	0.20	8.03E-07	5901	0.10	1.04E-04	6169	-0.20	5.04E-04	6440	-0.10	4.71E-03
5668	0.20	1.14E-04	5902	-0.10	2.58E-03	6172	-0.20	9.06E-05	6452	0.10	8.27E-04
5674	0.30	4.09E-10	5906	-0.20	2.45E-05	6179	0.20	1.01E-05	6459	-0.10	6.38E-04
5678	0.20	4.76E-05	5908	-0.20	1.32E-04	6181	-0.20	5.43E-05	6463	0.20	1.20E-07
5688	0.20	5.74E-05	5913	0.20	5.79E-05	6183	-0.30	3.01E-03	6476	0.30	1.15E-05
5690	0.20	6.41E-05	5914	-0.20	8.38E-08	6194	-0.20	3.43E-03	6477	-0.20	6.33E-03
5701	-0.20	1.95E-03	5916	-0.10	1.92E-03	6214	-0.10	2.74E-04	6479	-0.10	1.01E-04
5703	-0.20	2.10E-10	5925	0.20	1.57E-03	6219	-0.20	1.28E-05	6485	0.20	7.47E-07
5704	-0.20	6.68E-12	5929	0.20	1.58E-05	6221	-0.10	9.46E-03	6486	0.20	2.66E-05
5705	-0.20	2.70E-08	5930	0.10	5.84E-04	6229	0.10	4.81E-03	6487	-0.10	2.01E-04
5708	0.30	3.95E-04	5931	-0.10	3.79E-03	6230	-0.10	3.39E-04	6493	0.30	4.19E-06
5711	0.20	2.24E-05	5945	-0.10	7.02E-03	6232	0.10	1.60E-03	6494	0.20	1.48E-05
5712	0.20	3.93E-04	5955	-0.20	7.94E-05	6245	-0.20	5.22E-09	6496	-0.30	2.47E-03
5713	-0.10	5.56E-04	5956	0.20	4.35E-03	6249	-0.20	1.08E-07	6505	0.20	1.68E-05
5714	0.20	2.43E-06	5957	0.20	3.94E-03	6250	0.30	2.80E-15	6512	-0.20	2.99E-05
5715	0.20	1.69E-04	5960	0.30	2.94E-03	6253	0.20	3.05E-07	6515	-0.20	5.46E-03
5722	0.40	3.99E-04	5966	-0.20	3.91E-06	6257	0.20	1.26E-03	6528	0.20	1.05E-03
5728	0.10	9.32E-03	5972	-0.10	4.80E-05	6258	0.20	3.23E-04	6530	0.10	8.62E-03
5731	-0.10	5.44E-04	5979	-0.20	3.78E-05	6262	0.10	3.69E-04	6531	-0.20	1.76E-03
5737	0.20	8.79E-08	5982	0.10	8.26E-03	6263	0.20	5.44E-05	6532	0.30	8.60E-07

5739	-0.10	7.73E-03	5986	-0.20	4.93E-06	6265	0.10	7.87E-03	6540	0.10	1.73E-04
5741	0.20	3.96E-06	5990	0.10	5.69E-03	6266	0.30	2.51E-04	6548	0.10	8.80E-05
5742	0.20	2.96E-06	5992	0.10	1.94E-05	6267	0.20	2.43E-05	6551	0.30	3.41E-05
5753	0.20	3.25E-04	5994	-0.10	5.00E-03	6268	-0.20	1.33E-03	6555	-0.20	7.31E-09
5754	-0.20	6.85E-10	5995	-0.10	4.68E-03	6269	-0.20	2.40E-03	6557	-0.10	1.93E-03
5758	-0.30	9.98E-06	5996	-0.10	4.48E-03	6279	-0.30	6.76E-04	6564	-0.30	1.14E-07
5760	-0.10	5.42E-03	5997	-0.10	5.17E-03	6280	0.20	9.78E-06	6565	-0.10	1.32E-04
5765	-0.10	4.06E-03	5998	0.10	1.34E-05	6285	-0.20	1.73E-09	6568	0.20	6.38E-13
5768	0.20	8.34E-06	6015	0.10	1.84E-03	6291	-0.20	1.24E-03	6576	-0.20	1.11E-03
5775	-0.20	1.35E-07	6016	0.20	4.15E-06	6294	0.10	6.16E-03	6580	0.20	2.38E-07
5777	-0.20	9.48E-06	6025	0.30	5.43E-04	6297	-0.20	8.77E-08	6582	-0.20	2.38E-06
5784	0.10	4.42E-03	6030	0.10	6.34E-05	6303	-0.20	3.10E-12	6597	-0.30	7.42E-05
5785	0.30	2.83E-06	6031	-0.10	9.02E-03	6304	-0.30	7.71E-13	6598	-0.30	7.61E-05
5787	-0.10	3.01E-03	6033	0.20	1.72E-06	6308	-0.20	9.10E-04	6600	-0.10	5.14E-03
5788	0.20	3.91E-05	6036	0.10	1.72E-03	6310	-0.20	4.40E-07	6605	0.10	1.62E-03
5796	0.10	1.67E-03	6039	0.10	2.66E-03	6321	-0.20	6.61E-04	6607	0.10	5.64E-03
5798	0.20	8.66E-06	6061	0.20	1.30E-03	6325	-0.20	1.47E-03	6609	0.20	2.65E-03
5800	0.20	8.59E-10	6064	0.10	3.51E-03	6329	0.10	9.75E-03	6617	-0.20	2.72E-04
5803	0.20	2.87E-03	6070	0.20	3.23E-04	6337	0.30	7.17E-14	6619	0.10	4.34E-04
5816	0.20	8.70E-04	6074	0.10	2.58E-03	6339	-0.20	3.98E-05	6626	0.10	5.97E-03
5819	0.20	1.43E-04	6075	0.10	6.31E-03	6340	0.20	2.00E-05	6630	0.20	4.36E-05
5821	0.20	1.60E-08	6083	-0.10	2.61E-03	6345	-0.10	6.06E-03	6633	0.10	5.86E-03
5823	0.20	2.30E-03	6086	0.20	1.18E-05	6351	0.10	1.54E-04	6635	0.20	2.11E-04
5824	0.20	1.22E-03	6087	0.20	1.14E-07	6358	-0.10	6.90E-05	6639	-0.20	9.01E-08
5825	0.20	5.36E-05	6088	0.20	1.11E-07	6359	0.10	9.98E-03	6640	0.20	1.78E-04
5828	0.20	1.43E-03	6089	0.20	1.05E-07	6360	0.20	8.66E-03	6641	-0.10	4.79E-03
5830	0.30	2.30E-04	6095	-0.30	5.21E-04	6373	-0.10	1.47E-04	6644	-0.10	9.76E-03
5835	-0.10	9.47E-03	6102	0.10	4.66E-04	6375	-0.30	9.57E-09	6648	0.20	3.68E-04
5838	0.20	5.36E-12	6104	0.20	1.44E-08	6376	-0.20	1.94E-10	6651	0.10	4.16E-03
5840	-0.10	1.75E-05	6105	-0.10	4.17E-03	6381	0.20	1.44E-06	6658	0.10	3.02E-03
5841	-0.20	9.57E-07	6117	0.20	1.01E-06	6394	-0.20	1.29E-06	6659	-0.20	7.53E-06
5849	0.20	4.27E-04	6119	-0.20	1.21E-04	6398	0.20	6.57E-04	6661	0.20	7.86E-05
5852	0.20	8.08E-03	6125	0.30	5.86E-12	6402	0.20	1.34E-04	6662	0.20	8.30E-05
5856	-0.30	6.82E-13	6127	0.20	1.94E-05	6406	-0.20	8.08E-06	6672	0.10	2.75E-04
5868	-0.20	7.98E-06	6130	0.10	1.67E-03	6408	-0.20	5.26E-10	6676	0.20	1.69E-05
5874	-0.10	5.23E-05	6131	-0.10	7.55E-03	6411	0.20	1.69E-06	6678	-0.20	1.00E-03
5875	0.10	2.15E-04	6134	0.10	8.35E-03	6415	0.10	6.08E-04	6679	0.10	7.66E-03
5879	-0.10	7.99E-03	6141	-0.10	2.97E-04	6416	-0.20	6.97E-05	6683	0.10	5.88E-04
5887	0.30	9.94E-06	6142	0.20	1.05E-06	6417	-0.30	6.62E-12	6684	-0.20	1.31E-06
5890	0.10	2.62E-03	6143	0.10	1.97E-03	6420	0.10	1.46E-03	6689	0.10	4.76E-04

305											
5895	0.10	3.21E-04	6145	-0.20	7.98E-05	6433	0.10	8.36E-03	6699	0.20	3.18E-03
5896	-0.10	5.54E-03	6147	0.20	4.14E-03	6434	-0.20	5.39E-06	6706	0.10	6.33E-03
5897	0.10	2.28E-04	6152	-0.20	1.69E-07	6436	-0.30	1.03E-12	6711	0.20	6.42E-03
5900	0.40	1.06E-05	6158	0.10	6.28E-03	6437	-0.10	2.05E-03	6714	0.20	1.79E-08
7251	-0.10	6.12E-03	7560	-0.10	5.80E-03	7770	-0.30	4.55E-07	6718	0.20	1.40E-05
7252	0.20	4.74E-03	7563	0.20	9.80E-03	7774	-0.10	3.79E-03	6724	-0.20	5.12E-05
7255	-0.20	7.91E-03	7565	0.20	3.13E-04	7785	0.10	5.59E-03	6726	0.20	2.24E-08
7263	-0.10	7.73E-04	7568	-0.20	2.88E-05	7787	-0.10	1.50E-03	6727	-0.20	5.83E-06
7274	0.10	9.71E-03	7569	-0.20	1.06E-05	7788	-0.10	3.50E-03	6729	0.10	2.44E-03
7277	0.10	1.91E-03	7570	0.20	6.08E-06	7791	0.30	2.33E-10	6732	0.20	1.22E-06
7279	0.20	1.86E-05	7571	-0.10	1.66E-04	7807	0.20	6.12E-05	6735	-0.20	2.44E-04
7285	-0.20	6.34E-04	7572	0.20	1.85E-05	7810	0.10	1.52E-04	6736	0.20	1.29E-04
7289	-0.20	3.14E-05	7579	0.10	3.89E-03	7811	0.20	1.42E-03	6739	0.10	2.70E-06
7296	0.20	6.24E-03	7580	-0.10	8.58E-03	7816	0.20	1.55E-08	6741	-0.20	3.09E-04
7300	-0.10	7.23E-04	7582	0.20	8.31E-08	7825	0.10	1.31E-04	6749	0.20	1.08E-03
7304	0.20	9.34E-06	7590	0.20	9.71E-05	7826	-0.10	5.73E-03	6751	0.20	4.84E-07
7311	0.10	6.74E-04	7593	0.20	3.62E-03	7827	0.20	2.56E-07	6754	-0.10	4.53E-04
7313	-0.10	2.26E-03	7595	-0.20	1.11E-05	7828	0.20	9.56E-04	6755	-0.30	2.46E-14
7322	0.10	6.13E-03	7597	0.10	6.71E-03	7830	0.20	3.68E-05	6757	0.20	9.43E-09
7324	0.20	5.66E-04	7601	0.20	7.37E-08	7837	-0.20	1.39E-04	6758	0.20	2.73E-06
7327	0.10	2.26E-03	7605	0.20	5.05E-07	7841	-0.20	1.70E-03	6760	0.10	4.96E-03
7329	0.40	1.66E-06	7609	-0.20	7.17E-04	7843	-0.20	6.01E-06	6762	0.20	3.18E-07
7341	0.30	2.31E-04	7611	0.10	3.32E-03	7854	0.40	7.72E-07	6774	0.10	2.34E-03
7345	-0.20	1.54E-05	7618	-0.20	4.21E-03	7856	0.10	4.42E-03	6780	0.10	1.08E-03
7348	0.20	1.45E-03	7619	-0.10	7.54E-03	7857	0.20	4.00E-04	6784	-0.10	6.82E-03
7349	0.20	2.09E-03	7621	-0.20	3.21E-09	7860	0.10	5.64E-03	6788	-0.30	7.39E-04
7355	0.20	6.61E-06	7623	0.20	3.82E-03	7861	0.20	8.10E-04	6790	0.10	4.85E-04
7357	-0.10	4.36E-04	7624	-0.10	6.71E-03	7862	-0.10	4.66E-04	6799	-0.10	9.18E-03
7367	0.20	2.26E-09	7629	-0.20	9.15E-04	7863	-0.20	1.37E-12	6805	-0.10	1.48E-03
7370	0.20	1.69E-04	7639	0.10	3.67E-03	7869	0.40	6.36E-06	6820	0.20	6.30E-03
7374	-0.20	6.32E-06	7642	0.10	3.12E-03	7871	-0.40	8.93E-13	6824	0.10	5.59E-04
7380	-0.10	6.79E-04	7644	0.30	1.71E-18	7877	0.10	2.10E-04	6835	-0.20	2.89E-05
7386	0.30	2.08E-11	7648	0.20	7.21E-03	7879	0.20	6.10E-07	6837	0.10	2.63E-03
7390	-0.20	1.02E-03	7656	-0.20	3.95E-05	7885	-0.20	2.25E-03	6839	-0.20	1.60E-11
7392	0.20	9.48E-03	7657	-0.20	1.84E-05	7886	-0.20	3.56E-06	6843	0.20	2.60E-07
7406	-0.10	7.18E-03	7659	0.20	2.13E-05	7889	0.10	1.28E-04	6851	0.20	2.65E-05
7407	-0.20	1.47E-09	7660	-0.10	1.45E-03	7891	0.10	7.22E-04	6854	0.10	6.78E-03
7409	0.20	4.22E-03	7665	-0.10	1.63E-03	7895	0.30	3.11E-03	6858	-0.10	8.26E-03
7416	0.10	3.40E-03	7668	0.20	2.79E-04	7900	0.20	2.71E-05	6869	0.10	1.12E-04

7424	-0.20	4.81E-05	7672	-0.10	8.00E-03	7902	0.10	1.11E-03	6870	0.20	1.02E-03
7431	-0.20	1.76E-04	7676	0.20	2.65E-05	7910	-0.20	8.09E-03	6886	0.20	1.10E-07
7434	-0.20	1.08E-13	7677	0.10	2.14E-03	7914	-0.10	3.06E-04	6887	0.10	1.77E-03
7437	-0.10	3.28E-03	7681	0.20	1.35E-03	7927	-0.30	6.66E-09	6888	-0.20	5.74E-05
7444	-0.20	1.87E-03	7688	0.10	1.90E-03	7932	-0.10	1.99E-03	6889	0.20	3.65E-06
7448	0.30	5.62E-17	7689	-0.20	5.70E-06	7941	-0.10	3.50E-03	6890	-0.10	4.74E-04
7449	0.10	1.48E-03	7690	0.30	4.20E-15	7942	0.10	1.93E-03	6891	0.10	1.54E-03
7453	0.20	6.87E-08	7691	0.30	2.52E-15	7950	0.20	1.38E-06	6894	-0.20	2.15E-05
7455	0.20	4.17E-04	7693	0.20	3.21E-05	7951	0.10	3.38E-04	6895	-0.20	5.19E-06
7460	-0.30	6.79E-11	7698	-0.10	1.11E-03	7953	-0.10	5.12E-03	6902	-0.20	3.00E-04
7464	0.20	4.70E-04	7699	-0.20	2.13E-04	7956	0.20	6.14E-05	6906	-0.10	1.16E-04
7468	-0.10	1.18E-04	7701	0.30	6.02E-11	7958	-0.30	7.52E-03	6907	-0.10	1.28E-04
7471	0.10	5.51E-03	7722	0.20	4.31E-04	7965	-0.20	2.93E-10	6915	0.10	5.10E-03
7476	0.20	3.74E-03	7725	-0.10	6.35E-03	7966	0.20	1.40E-08	6928	-0.10	2.27E-03
7477	-0.10	6.13E-03	7726	-0.20	1.23E-03	7967	-0.20	7.16E-06	6933	0.30	2.18E-05
7490	0.30	1.15E-18	7727	-0.10	7.22E-05	7970	0.20	2.01E-05	6934	0.30	2.31E-05
7493	-0.10	1.96E-03	7729	-0.20	8.00E-05	7972	-0.20	2.21E-04	6936	0.10	4.06E-03
7495	0.20	1.27E-03	7733	0.10	8.10E-04	7973	-0.20	6.46E-05	6938	0.10	2.17E-03
7496	0.10	5.56E-04	7735	-0.20	1.49E-04	7976	0.20	1.46E-07	6942	0.10	8.58E-03
7504	0.20	2.96E-04	7737	0.20	5.29E-05	7978	0.20	2.05E-03	6944	0.20	4.96E-03
7506	0.20	8.96E-10	7739	-0.10	8.71E-04	7982	-0.10	3.55E-04	6953	-0.20	1.73E-09
7509	-0.20	9.45E-07	7742	0.10	2.69E-03	7994	0.20	8.05E-05	6962	-0.20	7.34E-10
7515	0.30	8.64E-09	7745	-0.20	1.85E-09	7995	0.20	7.65E-05	6979	-0.10	6.13E-05
7516	0.30	1.28E-08	7747	-0.10	1.94E-04	7996	0.20	7.58E-05	6980	0.20	3.86E-09
306											
7520	-0.10	9.84E-03	7748	0.30	6.08E-04	8003	-0.10	8.08E-03	6986	-0.30	1.86E-05
7537	-0.10	3.40E-04	7749	0.10	1.61E-03	8006	0.10	1.34E-03	6990	0.10	8.12E-03
7547	-0.10	1.44E-04	7753	-0.10	6.48E-03	8007	0.30	3.44E-04	6996	-0.20	6.32E-06
7549	0.20	6.62E-08	7760	0.20	4.33E-03	8008	0.10	2.03E-03	6998	0.20	6.77E-06
7559	-0.30	1.60E-09	7765	-0.10	2.46E-03	8009	0.20	4.81E-10	6999	0.30	5.66E-15
8308	-0.20	3.74E-04	8582	0.20	1.54E-07	8018	-0.20	1.25E-03	8855	0.20	3.86E-05
8318	0.10	4.71E-03	8593	0.20	9.15E-08	8024	0.20	5.83E-08	8857	-0.10	4.18E-04
8321	0.20	5.57E-05	8600	-0.10	7.85E-03	8025	0.30	3.26E-08	8859	0.10	5.17E-04
8333	-0.10	5.10E-03	8601	0.10	2.37E-03	8026	-0.10	4.08E-03	8861	0.10	4.98E-03
8337	0.10	1.22E-03	8604	0.10	5.59E-04	8031	-0.20	1.14E-04	8865	0.10	5.76E-04
8343	-0.20	3.49E-07	8607	0.10	2.33E-03	8032	0.20	1.65E-08	8867	-0.20	2.36E-07
8348	-0.20	2.14E-03	8608	0.20	2.63E-03	8037	0.20	9.77E-05	8870	0.20	3.78E-05
8351	-0.10	7.12E-03	8611	0.20	2.56E-11	8040	-0.20	4.64E-05	8875	-0.10	7.88E-03
8353	0.10	1.27E-04	8613	0.20	5.71E-06	8046	-0.20	7.40E-05	8880	0.20	3.33E-05
8358	0.20	2.43E-04	8617	-0.20	2.67E-04	8054	-0.10	1.40E-03	8883	0.50	5.89E-07

8359	-0.10	2.64E-04	8621	0.20	1.99E-04	8062	0.20	8.82E-05	8893	-0.20	1.38E-05
8361	-0.30	4.80E-13	8639	-0.20	6.16E-05	8063	0.20	5.87E-05	8898	0.10	1.89E-04
8362	0.10	4.85E-03	8647	0.10	1.34E-03	8066	0.10	7.85E-03	8899	0.10	1.51E-03
8363	0.20	4.79E-05	8668	0.20	1.47E-09	8067	-0.20	1.50E-05	8908	0.20	2.94E-07
8365	0.20	9.72E-06	8670	0.20	2.47E-05	8070	-0.20	5.87E-05	8910	-0.30	8.56E-13
8366	0.20	1.09E-05	8676	0.10	8.42E-04	8075	0.10	9.78E-04	8911	-0.20	1.79E-07
8367	0.10	2.16E-03	8683	0.10	4.09E-04	8083	0.10	1.10E-03	8915	0.10	9.09E-04
8373	0.20	4.52E-03	8685	0.30	9.70E-04	8084	-0.30	7.95E-19	8916	0.10	6.49E-04
8374	0.10	3.44E-04	8693	0.30	2.42E-16	8085	0.20	9.47E-05	8928	0.20	1.07E-04
8377	-0.20	1.72E-06	8694	-0.20	1.27E-06	8088	-0.10	1.42E-03	8930	-0.20	1.93E-03
8383	-0.10	8.57E-03	8700	-0.20	8.11E-06	8090	-0.20	2.50E-04	8933	0.20	1.77E-05
8384	0.20	9.09E-03	8704	0.20	1.34E-04	8094	-0.10	1.21E-03	8938	-0.20	2.41E-08
8391	0.10	1.34E-04	8710	0.20	2.23E-04	8100	-0.10	1.54E-03	8954	-0.20	5.78E-10
8395	0.10	1.31E-03	8720	0.10	3.95E-04	8102	0.20	8.26E-10	8955	-0.10	6.78E-04
8398	-0.10	2.42E-03	8721	-0.10	1.15E-04	8110	0.20	4.48E-04	8959	0.10	2.73E-03
8402	0.20	5.58E-05	8724	-0.20	1.92E-05	8127	-0.10	1.45E-04	8960	0.10	1.13E-03
8417	-0.20	2.05E-08	8726	0.20	3.87E-06	8133	-0.10	1.95E-04	8963	0.20	5.34E-06
8418	-0.40	2.00E-07	8728	0.20	1.16E-08	8146	-0.10	1.40E-03	8965	0.10	9.46E-04
8421	0.20	1.26E-05	8731	-0.20	4.63E-05	8147	-0.10	6.95E-03	8966	0.10	1.76E-03
8423	0.30	2.27E-14	8732	-0.10	1.39E-03	8150	-0.20	1.57E-05	8968	-0.10	9.17E-03
8425	0.20	2.46E-06	8733	0.20	1.38E-07	8159	0.10	2.19E-03	8969	-0.20	2.40E-05
8429	0.10	2.04E-03	8740	-0.10	4.91E-04	8161	-0.20	6.67E-06	8971	-0.10	1.53E-05
8433	0.10	1.67E-03	8744	0.10	4.25E-03	8163	0.20	6.11E-06	8980	0.10	4.60E-03
8436	0.10	6.46E-04	8749	-0.10	4.63E-03	8166	-0.20	5.97E-06	8981	0.20	1.15E-07
8451	0.20	7.06E-07	8751	0.20	6.76E-07	8167	0.10	6.45E-03	8987	0.20	3.34E-05
8454	0.20	2.94E-06	8752	-0.20	1.63E-03	8183	0.10	2.70E-03	8992	-0.20	2.22E-03
8457	-0.30	1.07E-07	8757	0.20	1.49E-08	8184	0.10	1.97E-03	8993	-0.20	2.16E-03
8466	-0.20	1.86E-08	8759	0.20	3.70E-03	8192	-0.20	6.32E-08	8997	-0.20	1.37E-04
8467	-0.20	4.25E-06	8762	0.20	1.82E-08	8197	0.20	3.77E-03	8999	-0.10	5.01E-03
8468	-0.20	2.57E-04	8764	0.30	2.10E-04	8203	0.20	3.37E-03	9010	0.10	4.93E-04
8470	0.20	7.70E-08	8767	0.10	2.93E-03	8206	0.10	4.03E-03	9011	-0.10	4.12E-03
8476	0.10	3.09E-03	8769	-0.10	2.25E-04	8230	0.20	1.89E-04	9026	-0.20	1.07E-03
8477	0.10	3.22E-03	8773	0.10	1.87E-04	8233	0.20	5.18E-06	9030	-0.20	1.78E-05
8478	0.10	3.65E-03	8774	-0.10	8.13E-03	8237	-0.20	2.41E-06	9034	-0.20	5.39E-05
8480	0.20	9.23E-04	8793	-0.20	1.71E-06	8238	-0.20	4.92E-06	9040	0.10	4.45E-04
8484	0.30	1.24E-07	8795	0.20	9.07E-06	8239	-0.20	4.79E-10	9043	0.20	1.77E-05
8485	-0.20	2.99E-05	8800	-0.20	5.55E-04	8240	0.20	2.66E-08	9046	0.20	2.61E-05
8488	-0.20	1.41E-09	8801	0.10	5.25E-03	8243	0.10	1.93E-03	9049	0.30	5.68E-03
8501	-0.30	2.90E-06	8803	-0.30	3.00E-05	8244	0.20	8.13E-11	9050	0.10	1.42E-03
8503	0.20	2.47E-06	8808	-0.10	1.58E-03	8259	-0.10	1.29E-03	9055	0.20	5.51E-05

8508	0.20	4.12E-06	8820	0.20	3.49E-10	8260	-0.10	3.90E-03	9056	0.20	1.04E-08
8509	-0.20	2.15E-04	8821	0.20	8.00E-06	8261	-0.20	7.74E-09	9057	0.10	2.58E-05
8515	0.10	4.74E-03	8822	0.10	5.59E-04	8264	0.20	2.79E-04	9065	-0.20	3.52E-06
8521	-0.20	8.88E-06	8824	0.20	7.60E-06	8273	0.20	5.20E-07	9068	-0.20	2.35E-06
8538	0.20	4.62E-05	8834	-0.20	1.05E-04	8274	-0.10	7.28E-03	9071	0.20	1.69E-03
8539	-0.20	1.85E-05	8838	0.20	4.81E-06	8276	0.30	6.25E-15	9074	0.20	3.22E-04
8540	-0.20	1.03E-06	8839	0.20	8.38E-04	8280	0.20	1.35E-08	9075	0.20	3.19E-03
8557	0.30	3.01E-06	8841	0.20	6.53E-05	8282	0.10	1.55E-03	9082	0.10	3.32E-04
307											
8560	0.10	1.31E-04	8843	0.10	1.35E-03	8285	-0.20	6.84E-06	9084	0.20	8.82E-07
8562	0.10	2.40E-03	8844	-0.10	1.21E-03	8287	0.10	2.58E-03	9087	0.20	1.39E-07
8563	-0.30	8.65E-09	8846	0.10	9.19E-03	8293	0.20	5.04E-09	9089	0.10	9.75E-03
8569	0.20	1.90E-04	8847	0.10	3.58E-03	8298	-0.10	8.30E-04	9092	0.20	2.99E-06
8576	0.20	1.94E-07	8848	0.20	3.04E-08	8300	0.10	5.97E-04	9097	0.20	9.92E-05
8577	-0.10	6.19E-03	8849	0.20	1.49E-05	8304	-0.20	2.25E-05	9098	-0.10	3.48E-03
9647	0.20	2.42E-03	9950	0.30	8.55E-11	10317	0.10	7.26E-04	10627	0.14	1.30E-04
9655	0.10	8.68E-03	9956	-0.20	1.96E-04	10323	0.10	5.76E-05	10630	-0.12	3.05E-03
9658	0.20	1.17E-05	9957	0.20	8.27E-10	10329	-0.10	7.13E-04	10631	0.15	2.43E-04
9660	0.20	1.50E-04	9959	-0.20	6.90E-06	10331	-0.10	1.63E-03	10634	-0.17	3.86E-04
9664	0.10	2.27E-03	9961	-0.10	3.32E-05	10333	-0.20	2.81E-05	10642	0.13	9.29E-03
9665	0.30	1.14E-09	9963	0.10	4.72E-04	10335	-0.10	1.16E-03	10649	-0.17	2.78E-06
9670	-0.10	3.62E-04	9964	-0.20	1.83E-03	10337	-0.20	2.05E-04	10653	-0.26	1.38E-11
9671	-0.20	1.02E-04	9973	0.10	1.36E-03	10343	-0.10	9.33E-03	10655	0.10	4.80E-03
9672	0.10	4.44E-04	9993	0.10	9.86E-04	10353	-0.20	9.79E-04	10678	0.27	2.38E-03
9676	-0.10	1.41E-04	9994	-0.10	5.25E-04	10355	-0.10	7.98E-03	10684	-0.21	2.02E-03
9680	-0.20	6.90E-06	9995	-0.30	2.75E-11	10357	-0.10	8.75E-03	10687	-0.20	1.23E-06
9688	-0.10	1.45E-04	9996	0.10	5.03E-04	10358	0.20	6.69E-06	10688	0.20	8.21E-08
9694	-0.20	3.99E-04	10005	0.10	1.82E-03	10362	0.10	3.04E-03	10706	0.16	3.69E-03
9698	-0.20	2.12E-10	10011	0.10	1.97E-04	10363	-0.11	5.39E-03	10711	0.26	7.59E-13
9699	0.10	2.07E-04	10015	0.10	3.03E-05	10369	0.18	3.02E-04	10724	0.26	6.83E-05
9700	-0.20	4.25E-06	10020	-0.10	3.91E-04	10370	-0.31	2.82E-16	10729	0.13	3.08E-04
9708	-0.20	9.44E-05	10023	0.20	5.63E-07	10371	0.11	4.31E-03	10730	0.17	4.32E-05
9712	0.30	1.86E-03	10026	0.10	3.34E-04	10396	0.35	1.20E-10	10733	-0.14	4.44E-03
9716	-0.20	3.87E-05	10035	-0.10	3.45E-03	10402	0.13	6.51E-04	10734	-0.20	2.74E-07
9719	0.10	4.61E-04	10039	0.10	5.62E-04	10403	-0.20	2.39E-03	10741	0.18	2.60E-03
9720	-0.20	8.86E-03	10044	-0.20	9.12E-06	10408	0.15	9.05E-05	10744	0.19	1.65E-03
9722	0.10	4.80E-03	10053	0.20	3.25E-05	10415	0.13	4.82E-03	10760	0.13	5.69E-04
9723	-0.40	8.41E-07	10062	0.10	1.53E-04	10422	-0.21	1.64E-04	10778	-0.27	7.61E-13
9725	0.10	5.89E-03	10077	0.10	1.53E-05	10423	-0.29	2.55E-10	10780	0.12	2.21E-03
9730	0.10	2.27E-03	10080	0.20	1.74E-04	10426	-0.16	2.33E-05	10792	0.16	1.31E-05

9732	0.20	6.71E-04	10081	0.20	5.69E-05	10427	0.24	1.44E-04	10798	-0.12	8.36E-04
9733	-0.20	4.22E-06	10082	0.10	9.12E-05	10436	0.16	2.12E-04	10802	-0.31	1.69E-08
9734	0.30	4.59E-04	10084	-0.30	2.23E-11	10438	-0.19	1.52E-08	10807	0.15	1.94E-05
9736	0.10	4.42E-03	10087	0.10	4.02E-04	10439	0.13	3.54E-04	10813	0.13	8.36E-03
9749	-0.20	6.37E-06	10095	-0.10	8.46E-04	10444	0.17	2.33E-05	10818	0.22	3.30E-09
9761	-0.10	1.27E-03	10102	-0.20	3.27E-06	10448	0.13	1.03E-03	10837	-0.29	6.19E-14
9767	0.30	2.44E-03	10103	0.30	4.59E-14	10451	0.11	4.78E-03	10838	-0.12	1.36E-03
9769	-0.30	1.08E-03	10114	-0.20	9.99E-04	10454	-0.13	1.61E-04	10842	0.19	3.17E-05
9771	0.20	1.30E-08	10115	0.10	1.99E-04	10456	0.17	7.00E-04	10850	0.12	1.41E-03
9773	0.10	8.88E-03	10119	-0.10	6.87E-03	10457	-0.09	3.76E-04	10857	-0.12	1.03E-03
9782	0.10	7.96E-04	10123	-0.10	5.79E-03	10461	0.23	1.89E-05	10864	-0.12	2.03E-03
9795	-0.20	7.36E-06	10124	0.20	2.79E-06	10468	0.13	1.15E-04	10865	-0.14	1.86E-03
9809	-0.10	2.45E-03	10127	0.20	1.32E-03	10475	-0.32	1.14E-04	10872	0.23	1.21E-08
9823	-0.20	3.33E-08	10132	-0.10	5.21E-04	10478	-0.27	6.30E-04	10877	-0.14	6.88E-03
9825	0.20	1.90E-07	10138	0.20	2.11E-03	10492	-0.13	1.64E-03	10878	-0.15	3.98E-05
9828	-0.20	4.74E-06	10139	0.10	8.24E-03	10494	-0.17	9.47E-08	10883	0.14	7.24E-05
9835	-0.20	1.73E-04	10142	-0.20	2.47E-03	10495	0.17	4.85E-05	10888	0.23	1.09E-07
9837	0.20	5.83E-04	10148	0.10	3.90E-03	10513	0.10	7.36E-03	10895	0.17	8.45E-06
9838	0.10	7.32E-05	10158	-0.20	7.36E-06	10537	0.19	4.67E-07	10902	0.12	1.79E-03
9859	0.20	8.94E-08	10160	-0.20	1.43E-06	10538	-0.18	7.32E-04	10908	-0.15	6.31E-04
9866	0.20	1.58E-07	10161	0.30	9.36E-08	10539	-0.26	5.46E-13	10913	0.10	5.82E-03
9867	0.20	4.95E-08	10162	0.20	4.65E-09	10547	0.15	1.03E-03	10917	0.23	6.30E-06
9874	0.10	8.68E-03	10173	-0.30	4.36E-08	10548	-0.14	1.99E-04	10923	0.20	3.18E-04
9876	-0.10	3.28E-03	10177	-0.30	7.37E-14	10549	-0.15	1.08E-03	10924	-0.16	2.01E-05
9883	0.20	9.97E-03	10195	-0.20	1.31E-03	10550	0.11	2.69E-03	10926	0.25	2.99E-05
9891	-0.10	3.24E-04	10199	-0.20	2.12E-10	10554	0.21	5.36E-06	10934	0.20	3.55E-05
9894	0.20	2.68E-05	10200	-0.30	2.46E-15	10555	-0.33	7.52E-05	10943	0.24	1.41E-06
9899	-0.20	2.37E-05	10206	0.10	2.37E-04	10579	0.21	3.84E-04	10947	0.18	2.24E-03
9904	0.10	9.46E-03	10210	-0.20	1.19E-06	10584	0.24	4.94E-10	10948	0.13	4.81E-04
9917	0.20	2.13E-05	10212	0.20	1.50E-03	10590	-0.10	5.80E-03	10950	-0.16	7.46E-05
9919	-0.10	4.58E-03	10229	0.20	1.93E-07	10595	0.13	8.75E-04	10962	-0.11	4.68E-03
9921	-0.20	6.45E-04	10233	-0.10	7.94E-04	10597	-0.10	5.68E-03	10965	-0.16	1.58E-05
308											
9924	-0.10	1.30E-04	10258	0.10	9.16E-03	10599	0.13	6.83E-03	10967	-0.11	9.33E-03
9932	0.20	1.11E-05	10283	0.10	1.94E-03	10601	0.22	1.88E-09	10977	0.28	5.30E-12
9933	-0.30	3.68E-05	10289	0.10	9.45E-04	10603	0.24	8.29E-10	10980	-0.27	2.72E-12
9937	0.10	6.42E-03	10293	0.20	4.57E-03	10604	0.26	1.08E-08	10985	0.23	1.69E-11
9942	0.20	4.21E-03	10299	-0.20	1.60E-05	10608	0.21	1.36E-08	10991	-0.26	3.65E-08
9945	0.10	6.09E-03	10302	-0.10	2.00E-04	10613	0.16	6.09E-04	11015	-0.23	5.36E-04
9946	-0.30	1.15E-13	10305	0.10	4.66E-04	10618	-0.11	2.08E-03	11016	0.13	9.95E-03

11400	0.15	1.98E-03	11833	0.25	9.10E-08	12232	-0.21	1.61E-08	11019	-0.20	1.54E-06
11406	0.18	9.79E-05	11858	-0.09	4.93E-03	12240	-0.24	1.90E-08	11032	-0.21	6.40E-08
11410	0.17	6.87E-06	11866	0.10	6.51E-03	12241	0.35	2.45E-08	11036	0.11	6.03E-03
11432	0.10	4.98E-03	11875	0.26	1.37E-04	12242	0.10	2.83E-03	11038	-0.10	5.39E-03
11437	0.18	1.58E-04	11879	0.14	2.25E-04	12250	0.11	8.86E-03	11047	0.10	4.78E-03
11439	-0.21	3.50E-03	11895	-0.34	1.96E-05	12274	-0.11	3.89E-03	11059	0.23	3.17E-03
11446	-0.14	4.32E-03	11896	0.12	2.03E-03	12280	-0.16	1.11E-05	11065	-0.21	4.49E-09
11454	0.09	9.95E-03	11897	-0.23	1.02E-07	12288	-0.13	1.03E-03	11075	-0.19	5.33E-03
11462	-0.17	4.75E-03	11898	0.19	1.03E-06	12291	-0.26	1.34E-13	11076	0.15	4.40E-04
11467	0.21	6.17E-09	11900	0.15	9.49E-04	12304	0.30	1.02E-13	11085	0.21	9.16E-09
11480	0.12	1.15E-03	11902	0.28	5.03E-05	12322	-0.09	8.95E-03	11088	-0.20	9.83E-08
11485	0.18	1.71E-03	11909	-0.13	3.96E-03	12329	-0.14	3.90E-03	11090	-0.22	3.23E-05
11486	0.09	9.88E-03	11911	0.20	3.57E-03	12330	-0.16	7.51E-05	11092	-0.20	3.83E-05
11489	-0.22	4.42E-04	11915	0.20	6.78E-08	12334	0.20	2.95E-08	11097	0.10	7.19E-03
11492	0.10	7.78E-03	11917	0.26	6.47E-05	12336	-0.10	7.35E-03	11101	-0.22	3.77E-08
11495	-0.16	2.26E-05	11918	-0.15	1.87E-04	12341	-0.20	1.56E-04	11102	-0.14	6.81E-04
11497	-0.32	1.91E-12	11920	-0.19	3.09E-06	12356	0.17	1.85E-04	11120	-0.14	5.27E-03
11499	-0.20	6.07E-05	11933	0.11	7.51E-03	12377	-0.13	1.09E-03	11140	-0.23	6.15E-07
11510	-0.13	3.19E-04	11934	0.15	3.24E-04	12378	0.25	1.36E-03	11147	-0.18	3.64E-04
11513	-0.15	3.72E-03	11939	0.16	6.94E-04	12381	0.29	1.16E-10	11151	-0.42	1.31E-09
11515	0.24	1.19E-08	11940	0.14	2.76E-04	12391	0.25	9.73E-04	11159	-0.17	2.19E-06
11520	0.19	5.66E-03	11945	-0.13	6.64E-04	12393	-0.19	3.68E-07	11172	0.26	4.74E-12
11547	-0.19	2.61E-06	11947	0.11	1.55E-03	12404	0.11	4.54E-03	11173	-0.15	2.92E-04
11549	0.14	6.47E-03	11955	-0.20	2.61E-03	12405	-0.12	1.19E-03	11177	-0.22	2.74E-03
11551	0.10	6.70E-03	11961	0.20	2.87E-08	12409	-0.23	2.08E-10	11184	-0.32	1.77E-17
11553	-0.13	4.91E-04	11977	0.13	3.88E-04	12411	-0.20	1.24E-03	11191	0.23	3.63E-10
11555	0.12	1.74E-03	11982	0.32	5.45E-06	12412	0.18	1.66E-06	11196	-0.12	7.62E-04
11574	0.21	1.36E-04	11999	-0.19	5.05E-06	12414	-0.19	3.51E-05	11201	0.26	1.03E-07
11584	0.17	2.81E-03	12009	-0.11	2.72E-03	12423	0.17	1.66E-05	11204	0.21	9.02E-04
11588	0.25	4.36E-10	12010	-0.13	6.29E-03	12433	-0.17	3.75E-06	11206	0.21	6.23E-08
11594	-0.18	2.65E-06	12013	0.10	5.01E-03	12439	-0.17	7.70E-05	11210	-0.19	3.44E-03
11600	0.12	1.06E-03	12032	-0.18	1.07E-04	12444	0.24	2.13E-04	11219	0.18	1.16E-05
11601	0.17	1.48E-06	12042	-0.13	6.63E-04	12448	-0.14	1.86E-04	11239	0.15	2.84E-03
11602	-0.15	6.74E-04	12043	0.13	4.50E-04	12458	-0.14	2.69E-04	11241	-0.18	8.04E-05
11603	-0.15	6.27E-04	12046	-0.17	1.22E-04	12462	-0.15	2.66E-05	11244	-0.20	1.55E-08
11605	0.14	9.33E-05	12052	0.29	1.60E-03	12469	0.16	6.84E-04	11270	0.23	5.20E-05
11628	0.10	7.25E-03	12066	-0.13	6.50E-04	12477	0.14	6.01E-03	11278	0.14	1.74E-04
11632	0.15	9.83E-04	12076	-0.10	3.13E-03	12483	-0.19	5.28E-06	11280	-0.22	5.25E-03
11638	0.29	1.32E-05	12081	0.19	1.35E-05	12491	-0.14	1.87E-04	11287	-0.11	8.88E-03
11639	0.21	2.02E-06	12087	0.08	3.62E-03	12498	-0.13	4.72E-04	11292	-0.12	9.45E-03

11641	-0.22	4.43E-07	12107	0.15	9.58E-03	12509	0.27	5.74E-10	11299	0.15	4.60E-03
11655	0.21	1.53E-07	12121	-0.26	7.63E-09	12510	0.22	1.68E-06	11301	0.14	2.83E-04
11659	0.15	3.82E-05	12126	-0.13	5.07E-04	12520	0.19	4.40E-03	11302	-0.27	8.61E-09
11680	0.10	6.63E-03	12131	0.21	1.39E-03	12521	-0.21	1.73E-08	11303	0.12	1.33E-03
11684	-0.19	1.58E-04	12137	-0.12	4.39E-03	12524	-0.19	5.24E-07	11305	-0.13	3.61E-03
11692	0.22	5.54E-04	12147	-0.16	3.56E-03	12535	-0.20	1.11E-03	11306	0.17	6.23E-08
11705	-0.24	8.71E-11	12152	-0.18	5.33E-04	12536	0.12	2.50E-03	11311	0.12	2.69E-03
11714	-0.14	6.77E-04	12153	0.11	4.89E-03	12539	-0.13	8.61E-04	11316	0.20	2.33E-06
11717	0.17	5.85E-06	12154	0.14	6.94E-05	12544	-0.16	4.54E-04	11321	0.11	2.55E-03
11721	-0.17	4.77E-06	12162	0.15	2.37E-05	12546	0.11	3.41E-03	11323	0.22	1.92E-05
11722	0.15	2.93E-05	12166	0.22	9.78E-08	12547	0.21	8.56E-09	11327	-0.23	4.98E-04
11726	-0.14	1.83E-04	12174	0.23	8.19E-11	12549	-0.18	2.35E-03	11337	-0.15	5.28E-05
11728	0.17	3.81E-04	12177	0.12	9.21E-03	12557	0.13	2.07E-03	11340	-0.17	3.44E-06
11743	0.14	1.11E-03	12183	-0.21	1.96E-06	12566	0.11	5.26E-03	11343	-0.16	1.77E-05
11756	-0.14	2.68E-04	12186	-0.18	3.41E-06	12571	0.14	8.37E-04	11344	-0.13	6.23E-04
11757	0.11	9.53E-03	12190	0.15	1.34E-04	12581	-0.13	2.98E-03	11352	-0.19	9.40E-06
309											
11759	-0.09	5.94E-04	12200	-0.19	1.06E-06	12584	0.16	3.41E-04	11355	0.14	5.97E-03
11760	0.13	1.27E-03	12205	-0.19	6.33E-03	12588	0.17	5.33E-03	11356	0.13	4.42E-03
11780	-0.11	6.69E-03	12210	-0.16	8.63E-05	12591	0.13	9.39E-04	11359	0.19	5.91E-07
11791	-0.19	4.07E-05	12211	-0.20	2.32E-03	12592	-0.25	2.33E-08	11362	0.32	2.56E-04
11796	-0.14	6.71E-03	12214	-0.17	4.18E-04	12596	-0.15	7.95E-05	11383	-0.13	4.37E-04
11803	0.13	7.79E-03	12219	0.11	2.11E-03	12598	0.23	1.13E-07	11384	0.14	3.88E-04
11816	-0.19	1.05E-03	12224	0.14	1.64E-03	12599	-0.13	3.56E-04	11390	0.12	1.92E-03
11818	0.19	1.64E-04	12228	0.23	5.04E-04	12605	0.16	1.40E-05	11399	0.12	5.40E-03
13340	0.16	3.15E-03	13878	0.13	1.98E-03	14333	-0.11	4.41E-03	14839	0.21	1.33E-08
13352	0.13	1.35E-03	13891	0.20	3.39E-04	14371	-0.19	4.32E-04	14841	0.15	1.22E-04
13355	0.14	1.69E-04	13903	0.12	4.64E-03	14373	-0.14	9.39E-04	14886	-0.22	3.54E-09
13361	0.17	5.65E-05	13906	0.17	3.78E-05	14381	0.20	1.88E-05	14899	-0.16	2.71E-04
13367	-0.12	1.20E-03	13916	0.13	6.87E-03	14389	0.19	1.18E-06	14907	0.17	5.26E-03
13382	-0.21	7.39E-05	13917	0.12	1.27E-03	14396	-0.14	7.31E-03	14909	-0.17	5.73E-06
13407	-0.11	3.95E-03	13919	-0.18	1.44E-03	14411	0.15	6.40E-05	14915	-0.17	9.00E-06
13420	-0.19	1.29E-04	13927	-0.18	7.34E-04	14413	0.19	1.82E-03	14921	0.16	8.39E-03
13425	0.28	7.63E-07	13929	0.16	1.15E-04	14414	-0.10	1.96E-04	14925	-0.23	1.13E-10
13426	-0.23	7.97E-04	13934	0.14	1.20E-04	14419	0.30	1.58E-03	14937	-0.27	4.85E-14
13432	-0.12	1.62E-03	13935	-0.11	5.05E-03	14424	0.18	3.03E-04	14940	-0.25	3.79E-07
13434	-0.23	2.13E-07	13940	-0.13	8.41E-04	14426	0.21	4.82E-08	14948	0.25	2.77E-10
13441	-0.15	1.22E-04	13949	0.22	1.52E-05	14436	-0.13	2.42E-03	14966	0.27	4.25E-14
13447	-0.23	9.16E-07	13971	-0.18	1.40E-04	14448	0.12	8.93E-03	14973	-0.16	7.91E-04
13457	0.20	3.97E-07	13973	-0.14	4.44E-03	14450	-0.17	6.02E-05	14974	0.25	9.31E-09

13466	0.12	1.04E-03	13977	-0.16	1.07E-04	14458	0.17	3.67E-05	14975	-0.19	5.23E-05
13470	0.29	4.01E-08	13989	0.18	1.35E-06	14460	-0.29	2.39E-14	14980	0.13	3.31E-03
13475	0.18	3.81E-06	14007	0.12	1.76E-05	14474	0.18	3.34E-04	14989	0.26	7.74E-04
13476	-0.17	1.38E-06	14009	0.18	3.38E-06	14476	-0.22	1.10E-06	14990	0.27	1.04E-06
13485	-0.36	1.47E-08	14010	0.10	5.37E-03	14479	0.13	1.48E-03	14992	0.16	3.03E-04
13497	-0.09	7.99E-03	14014	0.14	6.61E-06	14484	-0.15	1.61E-05	15001	0.26	2.30E-06
13512	-0.19	4.09E-07	14032	0.27	1.61E-03	14487	0.26	2.84E-05	15003	0.22	3.84E-09
13523	-0.18	5.70E-05	14052	0.19	8.73E-07	14492	-0.11	2.88E-03	15026	0.10	9.50E-03
13527	0.15	2.58E-05	14057	0.10	7.61E-03	14494	0.19	1.21E-04	15042	0.18	7.85E-05
13529	-0.28	1.11E-08	14071	0.13	6.21E-04	14504	0.14	3.41E-03	15047	0.18	1.11E-04
13538	0.18	5.34E-06	14079	-0.12	1.26E-03	14515	-0.11	4.41E-03	15062	0.17	5.59E-04
13561	-0.19	1.06E-03	14080	0.14	1.02E-04	14516	-0.15	2.65E-05	15086	0.14	4.88E-04
13562	-0.22	9.34E-03	14081	0.22	2.49E-05	14523	-0.12	9.23E-04	15088	0.16	4.00E-04
13578	-0.30	1.29E-14	14084	-0.13	6.77E-03	14524	0.19	6.34E-05	15092	-0.22	4.35E-09
13584	0.12	2.91E-03	14088	-0.15	1.22E-04	14555	-0.17	2.20E-05	15110	0.21	1.09E-07
13599	-0.14	1.84E-04	14093	-0.20	1.92E-06	14560	0.13	6.06E-03	15113	0.14	2.03E-03
13605	0.31	2.42E-08	14101	-0.19	1.63E-04	14592	-0.15	7.08E-03	15114	0.11	5.10E-03
13608	-0.22	4.57E-10	14104	0.20	4.62E-06	14611	-0.16	5.52E-04	15115	0.13	1.74E-03
13612	0.22	2.64E-08	14111	0.11	5.15E-03	14612	0.28	1.19E-14	15121	-0.22	2.94E-03
13618	-0.18	6.99E-07	14113	-0.24	7.34E-09	14616	0.14	8.12E-03	15128	-0.22	1.76E-08
13629	-0.17	2.46E-06	14124	0.13	5.30E-03	14628	0.10	1.59E-03	15131	0.10	6.00E-03
13635	0.12	4.20E-04	14130	-0.15	6.52E-03	14630	0.21	7.60E-09	15132	0.19	8.42E-04
13637	0.14	4.67E-04	14131	0.11	3.94E-03	14641	0.12	2.15E-03	15135	0.11	1.51E-03
13642	-0.12	2.29E-03	14136	0.17	4.97E-05	14658	-0.21	7.10E-10	15138	-0.14	1.10E-04
13656	0.10	7.82E-04	14151	0.14	5.19E-04	14659	-0.13	5.58E-04	15147	0.10	6.51E-03
13667	0.15	1.35E-04	14153	0.18	3.99E-05	14672	-0.15	2.04E-05	15150	-0.16	8.78E-04
13672	-0.18	3.61E-04	14164	0.21	5.27E-08	14674	-0.18	1.40E-05	15162	0.15	3.82E-05
13676	-0.18	4.93E-03	14170	-0.15	2.94E-05	14694	0.17	7.57E-04	15164	-0.18	2.23E-06
13700	0.21	4.88E-08	14178	0.16	1.93E-07	14695	0.23	3.20E-10	15172	-0.11	4.02E-03
13707	0.17	1.29E-03	14186	-0.16	2.85E-05	14697	0.13	7.60E-04	15199	-0.12	1.26E-03
13710	-0.10	3.91E-03	14191	0.17	8.27E-05	14698	0.13	9.08E-04	15206	0.10	4.42E-03
13725	-0.19	1.54E-04	14194	0.32	1.36E-07	14699	-0.10	8.39E-03	15215	0.14	1.36E-04
13727	0.13	3.76E-03	14195	0.21	1.45E-07	14700	0.14	1.05E-04	15232	-0.18	2.07E-03
13729	-0.13	7.36E-04	14197	0.20	2.33E-05	14710	0.15	5.82E-05	15238	0.15	3.13E-04
13734	-0.15	1.05E-04	14206	-0.18	5.34E-04	14716	-0.17	7.92E-06	15241	-0.12	1.28E-03
13738	-0.18	4.33E-04	14228	-0.21	9.51E-09	14722	-0.09	7.63E-03	15243	0.25	1.82E-07
13740	-0.13	6.29E-04	14237	0.14	2.19E-03	14725	0.11	5.96E-03	15248	0.37	1.50E-09
13760	0.20	1.51E-08	14242	0.11	1.21E-03	14727	-0.23	6.65E-09	15250	-0.17	2.22E-03
13763	0.18	7.06E-03	14244	0.13	1.97E-04	14739	-0.16	2.68E-05	15252	-0.16	7.56E-04
13767	0.28	8.68E-15	14246	0.19	2.12E-07	14748	-0.14	1.05E-04	15260	0.15	1.77E-04

310											
13793	0.14	7.66E-04	14265	0.13	2.15E-04	14756	-0.12	2.77E-03	15289	0.12	9.43E-03
13795	-0.21	2.76E-07	14296	0.16	2.46E-06	14777	0.26	1.13E-11	15293	0.21	6.79E-08
13798	0.14	1.43E-03	14300	0.12	3.48E-03	14780	0.23	9.72E-08	15320	0.17	5.44E-03
13805	-0.12	2.17E-03	14301	-0.10	2.33E-03	14783	-0.12	1.32E-03	15351	-0.21	1.53E-06
13809	0.14	3.95E-04	14307	-0.14	3.77E-04	14791	-0.19	7.19E-07	15354	-0.22	3.57E-04
13826	-0.13	4.66E-04	14309	-0.24	3.30E-11	14797	-0.14	1.06E-04	15375	0.16	5.02E-04
13839	0.16	3.23E-05	14311	0.10	6.47E-03	14800	0.11	3.09E-03	109	-0.14	5.00E-02
13851	-0.29	8.31E-04	14316	0.18	9.08E-07	14807	0.18	1.90E-04	1509	0.06	5.00E-02
13860	0.17	2.77E-03	14330	0.11	4.36E-03	14808	-0.12	1.47E-03	1546	0.11	5.00E-02
1549	0.05	5.00E-02	15151	0.87	5.00E-02	7013	0.10	7.11E-03	12611	0.10	6.31E-03
1688	0.05	5.00E-02	15235	-0.23	5.00E-02	7018	0.20	8.34E-04	12613	0.13	1.08E-03
1840	0.05	5.00E-02	3798	0.20	7.31E-03	7025	0.20	5.50E-08	12625	-0.15	2.43E-05
2548	0.40	5.00E-02	3801	-0.20	4.30E-06	7027	0.20	2.49E-04	12626	0.14	6.07E-04
3262	0.06	5.00E-02	3808	0.10	3.75E-04	7028	-0.30	3.24E-05	12630	-0.13	3.04E-03
3398	-0.05	5.00E-02	3818	0.20	9.09E-07	7031	-0.10	5.05E-03	12635	0.24	7.64E-05
4228	0.15	5.00E-02	3823	0.10	9.11E-04	7044	0.10	7.59E-04	12642	-0.11	3.96E-03
4381	-0.09	5.00E-02	3825	-0.30	1.15E-05	7049	-0.10	9.38E-03	12643	0.14	2.68E-03
4437	0.09	5.00E-02	3831	0.20	1.79E-05	7052	0.30	6.06E-04	12651	0.49	2.65E-08
4812	-0.15	5.00E-02	3841	-0.10	3.67E-03	7058	0.20	1.97E-06	12652	0.21	1.45E-03
4881	0.12	5.00E-02	3844	0.20	3.89E-03	7064	-0.10	2.64E-03	12656	0.22	1.12E-08
5362	-0.29	5.00E-02	3859	0.20	5.15E-11	7069	0.20	3.90E-03	12657	-0.14	3.00E-03
5392	0.09	5.00E-02	3862	-0.20	2.76E-05	7072	0.10	5.25E-03	12658	0.16	2.13E-05
6213	0.07	5.00E-02	3865	0.10	3.68E-03	7073	0.10	5.25E-03	12662	-0.15	2.87E-03
6368	-0.61	5.00E-02	3876	0.10	5.56E-04	7077	-0.20	1.01E-03	12665	-0.14	5.50E-03
6448	-0.05	5.00E-02	3878	0.20	4.52E-08	7078	0.20	2.04E-03	12668	0.13	1.14E-03
6642	-0.07	5.00E-02	3879	0.10	1.39E-03	7079	-0.20	4.27E-06	12673	0.18	1.45E-06
6653	-0.10	5.00E-02	3884	0.20	1.04E-11	7086	0.20	9.31E-05	12678	0.18	5.76E-03
7089	-0.09	5.00E-02	3886	-0.30	1.17E-11	7088	0.20	5.54E-06	12680	0.16	1.10E-03
7896	-0.09	5.00E-02	3892	0.20	5.28E-05	7091	0.20	8.69E-06	12683	0.15	1.22E-04
8753	0.17	5.00E-02	3902	0.30	2.11E-10	7098	-0.10	7.63E-04	12687	-0.18	2.05E-03
9062	0.04	5.00E-02	3907	0.20	1.92E-03	7101	0.10	1.73E-03	12688	0.12	9.89E-03
9116	0.74	5.00E-02	3909	0.20	1.62E-06	7108	0.20	3.27E-03	12693	-0.14	1.43E-04
9149	0.07	5.00E-02	3910	-0.10	2.01E-05	7112	0.10	6.21E-03	12706	-0.13	5.29E-04
9644	0.10	5.00E-02	3914	0.30	2.91E-19	7113	-0.20	2.94E-08	12710	-0.14	6.26E-03
9675	-0.05	5.00E-02	3927	0.20	8.34E-06	7116	-0.20	1.09E-11	12720	-0.23	5.44E-07
10049	0.06	5.00E-02	3928	0.20	6.61E-05	7123	-0.20	1.06E-05	12725	0.23	3.12E-07
10137	-0.42	5.00E-02	3931	0.10	4.08E-04	7125	0.30	2.16E-10	12728	0.28	5.30E-07
10308	-0.38	5.00E-02	3933	0.10	7.03E-03	7128	-0.10	3.28E-04	12742	0.15	4.85E-04
10458	-0.10	5.00E-02	3937	0.10	7.82E-03	7129	0.10	7.26E-03	12746	-0.18	9.69E-07

10519	0.22	5.00E-02	3938	-0.20	2.31E-04	7135	-0.30	2.26E-03	12756	0.21	7.85E-07
10803	-0.26	5.00E-02	3940	-0.20	3.55E-05	7136	-0.30	4.35E-03	12757	-0.20	8.78E-04
10833	0.23	5.00E-02	3945	0.20	2.22E-03	7139	0.10	4.06E-03	12766	0.26	6.78E-06
10932	0.12	5.00E-02	3946	-0.20	2.63E-08	7142	0.20	8.36E-07	12781	0.21	2.09E-05
10937	0.10	5.00E-02	3947	0.10	1.24E-03	7146	-0.10	1.58E-04	12782	-0.14	6.42E-04
10960	-1.07	5.00E-02	3950	-0.10	1.29E-03	7147	-0.20	1.03E-04	12786	-0.15	6.34E-04
11125	0.30	5.00E-02	3951	-0.20	5.26E-08	7150	-0.20	2.88E-06	12794	0.10	6.43E-03
11319	-0.23	5.00E-02	3964	0.20	9.96E-03	7151	-0.20	3.15E-06	12798	0.09	7.21E-03
11539	-0.48	5.00E-02	3971	-0.10	7.90E-03	7160	-0.20	1.64E-07	12799	-0.18	1.84E-05
11624	-1.75	5.00E-02	3972	-0.20	3.14E-07	7161	0.20	6.43E-06	12827	0.22	5.33E-04
11784	-0.27	5.00E-02	3979	0.20	8.55E-03	7167	-0.10	5.68E-03	12828	0.16	2.89E-05
11865	0.31	5.00E-02	3994	-0.10	9.68E-03	7172	-0.10	1.30E-04	12833	0.13	1.52E-03
11870	-0.77	5.00E-02	3996	-0.20	2.56E-05	7174	0.20	4.16E-05	12837	-0.17	4.33E-05
12035	0.39	5.00E-02	4011	-0.20	4.51E-05	7181	0.30	6.78E-04	12847	0.22	8.89E-04
12222	-0.25	5.00E-02	4017	0.30	3.71E-13	7185	0.10	9.11E-03	12849	0.14	1.75E-04
12290	-0.06	5.00E-02	4018	0.20	2.20E-03	7186	0.10	4.68E-03	12850	-0.15	1.72E-04
12340	-0.68	5.00E-02	4019	0.20	2.02E-03	7190	-0.20	5.98E-06	12856	-0.16	3.17E-05
12877	-0.08	5.00E-02	4025	-0.20	7.15E-10	7195	0.20	2.05E-07	12867	-0.15	1.20E-03
13144	0.57	5.00E-02	4027	-0.10	1.28E-03	7197	0.20	3.25E-07	12880	0.18	1.36E-04
13163	0.31	5.00E-02	4028	0.20	3.29E-04	7202	0.30	2.33E-05	12881	-0.22	2.27E-08
13284	-0.07	5.00E-02	4031	0.30	4.65E-06	7207	0.20	1.16E-05	12882	0.16	9.76E-03
13369	0.28	5.00E-02	4036	0.10	9.64E-03	7208	0.20	3.42E-04	12885	-0.18	2.24E-06
13502	0.42	5.00E-02	4039	-0.10	5.63E-04	7218	0.20	3.95E-09	12886	0.16	3.44E-03
13535	-0.08	5.00E-02	4044	0.20	1.06E-03	7219	0.20	1.07E-04	12887	-0.31	3.88E-09
311											
13745	0.09	5.00E-02	4051	0.10	3.70E-04	7223	0.30	4.79E-09	12888	0.18	1.07E-04
13854	-0.35	5.00E-02	4052	0.10	2.33E-05	7227	-0.20	1.74E-06	12889	-0.17	1.04E-04
13945	0.31	5.00E-02	4053	-0.20	5.64E-08	7228	-0.20	3.06E-06	12891	-0.17	8.93E-06
14266	-0.07	5.00E-02	4055	0.10	1.44E-03	7229	-0.20	3.20E-05	12902	0.12	3.74E-03
14480	-0.13	5.00E-02	4058	0.10	1.80E-04	7232	0.20	5.29E-08	12905	0.22	1.76E-06
14579	0.04	5.00E-02	4064	-0.10	7.46E-04	7238	0.10	1.68E-03	12907	-0.20	3.53E-05
14609	0.57	5.00E-02	4068	-0.20	8.25E-03	7240	-0.10	4.54E-03	12908	-0.18	1.27E-05
14951	-0.05	5.00E-02	4070	0.20	7.80E-05	7241	-0.20	2.83E-06	12926	0.17	2.98E-03
14967	-0.06	5.00E-02	4076	0.30	9.93E-09	7248	0.20	5.76E-07	12927	0.13	3.76E-04
14994	-0.56	5.00E-02	5070	-0.20	3.43E-03	9101	-0.10	3.17E-03	12940	-0.17	7.18E-06
1036	-0.10	1.95E-04	5071	-0.20	1.90E-05	9108	0.20	8.18E-03	12945	-0.19	1.42E-05
1042	-0.10	6.07E-05	5075	-0.10	9.31E-03	9110	0.20	1.65E-03	12946	0.18	2.18E-03
1045	0.20	9.81E-05	5078	0.10	8.27E-04	9113	0.30	2.22E-06	12948	0.22	9.52E-06
1049	0.10	1.04E-03	5079	-0.10	3.32E-04	9115	-0.20	1.23E-04	12952	-0.14	1.75E-04
1050	0.10	8.58E-03	5086	0.10	1.68E-04	9125	0.20	2.74E-04	12962	-0.25	7.00E-07

1057	0.10	4.18E-04	5088	-0.10	1.35E-03	9127	0.20	9.41E-07	12977	-0.26	2.33E-08
1063	-0.20	8.02E-10	5093	0.10	4.52E-03	9129	-0.30	1.04E-12	12979	0.23	1.40E-08
1068	0.10	5.27E-03	5094	-0.20	9.61E-04	9132	0.10	2.80E-03	12980	0.20	2.43E-04
1069	0.10	2.49E-03	5098	-0.10	8.96E-04	9146	0.10	4.40E-03	12990	0.15	7.42E-03
1087	-0.20	2.13E-05	5099	0.20	4.35E-07	9148	0.10	7.29E-04	12994	0.18	4.81E-07
1094	-0.30	8.72E-12	5109	0.10	2.82E-03	9158	-0.20	3.20E-05	12998	-0.18	1.48E-04
1100	0.20	3.87E-06	5114	-0.20	1.25E-03	9160	0.20	1.22E-03	13000	0.13	2.98E-04
1104	-0.10	7.10E-03	5115	0.10	6.81E-03	9161	-0.10	1.66E-04	13003	0.20	1.95E-05
1110	0.10	6.02E-04	5124	0.20	6.26E-09	9166	0.10	2.20E-03	13018	0.16	3.00E-04
1113	0.10	1.44E-03	5133	0.20	9.84E-06	9167	-0.10	8.94E-04	13020	-0.10	5.28E-03
1121	0.10	8.03E-04	5134	0.20	8.00E-09	9168	-0.10	8.20E-04	13029	-0.14	4.52E-04
1130	0.20	5.73E-03	5141	-0.20	1.21E-03	9173	-0.20	9.76E-05	13043	-0.13	4.03E-04
1137	0.20	7.97E-04	5142	-0.30	1.72E-04	9178	0.20	1.32E-04	13048	-0.13	8.39E-03
1140	-0.10	5.18E-03	5145	0.20	3.99E-06	9179	0.20	2.92E-04	13051	-0.24	1.28E-11
1147	-0.20	4.06E-08	5148	0.20	7.73E-06	9181	-0.20	1.04E-04	13054	0.11	6.57E-03
1149	-0.10	3.94E-03	5157	-0.30	2.73E-04	9183	0.20	6.16E-06	13055	-0.11	4.17E-03
1151	-0.10	3.59E-04	5163	0.20	3.03E-07	9187	0.10	6.72E-04	13063	0.23	7.71E-06
1152	-0.20	5.44E-04	5170	-0.20	7.97E-07	9191	0.10	7.46E-04	13065	0.32	7.43E-14
1154	0.20	4.73E-04	5172	0.10	2.80E-03	9192	0.10	7.78E-03	13075	-0.14	2.33E-04
1160	-0.10	4.28E-04	5179	0.20	1.45E-03	9194	-0.30	3.38E-14	13083	0.11	6.39E-03
1161	-0.10	1.03E-03	5183	0.30	3.54E-05	9196	0.10	1.71E-03	13089	0.19	8.95E-05
1162	-0.10	5.17E-03	5196	-0.20	3.75E-03	9200	0.10	2.09E-04	13103	-0.21	9.29E-08
1163	-0.40	6.85E-08	5199	0.10	2.89E-03	9204	0.20	9.58E-05	13105	-0.19	5.23E-04
1167	-0.30	2.91E-11	5205	0.20	1.18E-03	9207	-0.20	1.06E-07	13107	0.14	9.32E-04
1170	0.10	5.24E-03	5209	-0.10	2.57E-04	9210	0.10	6.57E-03	13111	-0.15	1.93E-05
1171	-0.10	1.85E-05	5212	0.20	4.71E-05	9221	-0.20	1.66E-04	13116	0.13	6.75E-03
1172	0.10	5.98E-03	5219	-0.20	9.89E-05	9222	-0.20	5.76E-03	13124	0.10	1.28E-04
1178	-0.10	2.49E-04	5229	0.10	9.96E-03	9225	-0.10	2.46E-06	13131	0.16	1.90E-05
1179	0.20	3.31E-04	5230	-0.10	9.08E-03	9228	-0.20	3.47E-05	13140	0.14	6.56E-05
1182	-0.20	2.69E-06	5234	-0.10	2.61E-04	9237	0.20	4.51E-06	13143	-0.17	1.09E-04
1185	-0.10	8.74E-05	5237	-0.20	3.79E-05	9241	0.10	5.30E-03	13151	0.23	2.95E-06
1186	-0.10	5.99E-03	5241	0.10	6.44E-04	9244	0.10	7.90E-05	13153	0.14	2.00E-04
1195	-0.10	5.65E-05	5247	-0.10	3.23E-04	9245	0.10	9.20E-03	13154	0.21	7.32E-09
1201	0.10	1.06E-03	5257	-0.30	4.49E-04	9252	0.10	8.76E-05	13161	0.10	4.75E-03
1213	-0.10	1.49E-03	5259	0.10	2.34E-03	9255	0.20	1.20E-03	13171	-0.18	4.93E-03
1214	-0.20	3.16E-11	5261	0.20	7.79E-07	9260	0.20	6.73E-06	13191	0.19	8.52E-04
1218	0.20	6.88E-03	5262	-0.20	8.90E-06	9262	-0.20	1.30E-04	13200	-0.14	5.47E-03
1219	0.30	3.58E-04	5267	0.30	1.68E-03	9265	-0.20	8.50E-04	13204	0.14	5.21E-04
1229	0.20	5.13E-06	5275	0.20	4.83E-08	9273	0.10	3.17E-04	13210	-0.16	1.88E-05
1230	-0.30	1.21E-04	5278	-0.20	1.80E-04	9276	0.10	5.00E-03	13211	0.22	1.23E-03

1241	-0.50	7.85E-06	5285	0.20	9.12E-08	9278	-0.10	2.37E-03	13212	-0.17	1.97E-05
1243	-0.10	8.36E-03	5288	0.20	4.04E-04	9281	0.10	1.95E-03	13214	-0.24	6.28E-11
1244	-0.20	1.90E-08	5293	0.20	7.76E-04	9285	0.10	5.10E-03	13217	0.13	1.64E-03
1251	-0.20	4.50E-06	5294	-0.30	4.31E-07	9288	0.10	4.54E-03	13224	0.12	3.00E-03
1252	0.10	9.02E-04	5295	0.20	3.64E-04	9290	0.10	1.20E-03	13230	0.12	3.98E-04
1254	0.10	6.45E-03	5302	0.20	5.78E-06	9302	-0.30	1.74E-05	13238	0.10	7.09E-03
1256	-0.10	7.77E-04	5307	0.10	3.25E-03	9303	0.10	3.56E-03	13239	0.30	5.85E-05
1265	-0.20	4.02E-05	5313	-0.30	9.65E-04	9305	-0.10	1.37E-03	13249	0.12	1.12E-03
312											
1266	0.10	3.33E-04	5316	-0.20	1.63E-06	9307	-0.10	1.32E-03	13264	0.11	1.28E-03
1268	0.20	4.41E-05	5317	-0.20	2.73E-07	9313	0.20	2.24E-03	13269	0.26	1.04E-03
1276	0.20	6.60E-04	5321	-0.20	3.78E-08	9314	-0.20	8.89E-04	13279	0.25	8.86E-03
1281	-0.20	1.88E-04	5322	-0.20	9.37E-03	9322	-0.30	3.94E-08	13292	-0.18	4.00E-03
1287	0.20	7.02E-07	5323	0.10	6.06E-05	9323	0.10	6.85E-03	13302	-0.10	7.02E-03
1291	-0.10	2.80E-04	5331	0.10	2.93E-03	9326	0.20	1.60E-05	13305	0.13	3.71E-03
1301	0.20	3.83E-05	5333	0.10	5.97E-04	9327	0.20	7.75E-05	13306	0.29	6.88E-05
1305	-0.20	3.28E-07	5334	0.10	1.97E-03	9329	0.10	2.82E-04	13310	-0.13	8.07E-04
1306	0.30	6.56E-11	5336	-0.10	9.61E-05	9339	0.20	1.96E-07	13326	-0.23	8.71E-04
1307	0.20	2.62E-05	5344	-0.20	9.16E-09	9347	0.30	9.41E-15	13336	-0.11	6.72E-03
1308	0.20	1.41E-03	5345	-0.30	6.32E-15	9349	0.20	3.24E-06	9592	-0.20	1.27E-05
2410	0.20	4.29E-06	5348	-0.20	1.09E-05	9352	-0.20	4.86E-06	9609	-0.20	9.44E-04
2413	-0.30	1.21E-11	5351	0.20	4.72E-04	9353	-0.20	6.95E-06	9619	-0.20	1.31E-04
2414	-0.30	8.35E-12	5352	-0.10	9.38E-05	9355	-0.30	1.43E-17	9624	-0.10	9.04E-04
2419	0.10	6.17E-03	5353	-0.30	1.43E-16	9368	-0.20	2.31E-06	9636	0.20	1.01E-07
2422	0.10	8.69E-04	5355	-0.10	7.69E-03	9369	-0.10	9.16E-05	9640	0.10	1.43E-03
2424	0.20	6.56E-05	5360	-0.20	1.11E-03	9376	-0.20	4.27E-03	9645	-0.10	8.12E-04
2427	0.20	1.79E-06	5367	0.20	1.85E-05	9383	0.10	3.35E-03	9646	0.20	8.59E-06
2432	-0.20	1.17E-05	5377	-0.20	3.70E-07	9388	0.10	7.45E-03	12610	0.23	1.18E-04
2433	-0.30	8.54E-05	5379	0.20	7.41E-07	9389	-0.20	4.97E-06	5619	-0.30	6.90E-12
2446	-0.20	5.60E-08	5384	-0.20	1.56E-05	9390	0.20	1.10E-04	5623	-0.20	3.90E-05
2447	0.10	1.05E-04	5387	0.10	6.06E-03	9397	0.20	4.72E-05	5624	0.10	7.43E-03
2452	-0.30	5.01E-09	5390	-0.10	6.45E-03	9402	0.20	3.31E-08	5625	0.20	2.71E-06
2461	0.30	1.43E-05	5397	0.10	7.03E-03	9405	0.20	8.55E-08	5627	-0.20	3.11E-06
2465	0.20	8.17E-07	5399	0.20	3.66E-08	9406	0.10	1.80E-06	5632	-0.20	9.51E-08
2471	-0.30	8.18E-12	5404	0.10	9.24E-04	9408	0.10	7.22E-04	5637	-0.20	8.88E-06
2472	0.20	5.25E-07	5412	0.20	2.11E-05	9421	0.20	1.29E-03	5638	-0.20	7.24E-06
2476	-0.10	7.71E-03	5417	-0.20	4.00E-04	9424	0.20	1.47E-07	7004	-0.10	1.50E-04
2479	-0.10	2.03E-03	5419	-0.10	4.43E-03	9437	0.40	1.77E-06	2591	0.10	3.18E-04
2480	-0.10	6.55E-03	5429	-0.10	4.85E-03	9445	0.10	1.59E-03	2595	-0.10	3.68E-03
2481	-0.20	5.49E-03	5431	0.20	3.24E-03	9448	0.10	5.79E-03	2604	0.10	1.05E-03

2483	-0.20	1.03E-04
2484	-0.20	4.73E-11
2485	-0.20	2.42E-12
2491	-0.20	6.39E-10
2492	0.20	2.24E-03
2499	-0.10	2.19E-03
2500	-0.20	4.24E-07
2501	0.10	2.97E-03
2502	-0.30	3.96E-03
2515	-0.20	8.80E-03
2522	0.20	1.39E-06
2523	0.20	4.44E-06
2524	0.20	2.62E-03
2525	0.20	2.77E-03
2532	0.20	1.64E-05
2534	-0.20	7.84E-03
2537	-0.10	2.10E-03
2543	-0.20	1.31E-03
2544	0.10	3.52E-04
2545	0.20	1.54E-04
2550	0.20	4.30E-04
2553	-0.10	2.80E-04
2564	-0.10	1.82E-04
2568	-0.20	8.41E-11
2575	-0.20	2.47E-03
2576	-0.10	5.87E-03
2582	0.10	1.81E-03
2583	-0.10	8.71E-04
2584	-0.20	1.68E-05

5432	-0.20	5.91E-10
5437	-0.30	6.17E-09
5438	-0.30	9.60E-10
5446	-0.20	5.58E-12
5448	-0.20	1.75E-04
5451	0.10	1.55E-03
5458	-0.20	1.24E-04
5461	0.20	8.89E-06
5470	0.30	5.93E-15
5472	0.10	8.75E-04
5480	-0.30	1.09E-06
5493	0.10	5.03E-03
5495	-0.20	2.31E-04
5499	-0.10	1.50E-04
5501	-0.20	5.31E-12
5502	-0.20	8.16E-12
5509	-0.20	2.85E-07
5521	0.10	2.79E-03
5522	0.30	2.90E-14
5523	0.20	5.12E-04
5527	-0.10	5.33E-05
5538	0.10	1.89E-04
5539	0.10	7.41E-04
5560	0.10	6.81E-05
5563	0.10	3.76E-04
5570	-0.20	1.32E-11
5574	0.20	2.12E-07
5577	-0.20	1.79E-04
5580	0.10	3.89E-03

9459	0.10	2.30E-03
9460	-0.20	2.20E-05
9461	-0.10	9.24E-03
9463	-0.10	4.54E-04
9468	0.20	2.27E-06
9471	-0.20	5.63E-04
9478	-0.20	9.76E-04
9483	0.10	2.01E-03
9486	0.20	6.74E-03
9491	0.20	1.85E-03
9493	0.10	5.50E-04
9496	0.20	9.73E-06
9497	0.20	2.64E-05
9500	0.20	3.70E-09
9501	0.20	2.94E-03
9507	-0.10	2.81E-03
9508	-0.10	2.75E-04
9509	0.30	4.30E-03
9519	0.20	1.17E-04
9523	0.10	1.47E-03
9524	0.10	1.68E-03
9527	-0.20	1.11E-04
9530	0.20	9.21E-05
9531	0.20	8.45E-07
9543	0.10	5.56E-03
9548	-0.10	1.48E-04
9553	0.30	1.82E-11
9557	0.20	7.65E-07
9558	0.20	1.51E-06

2608	-0.20	3.15E-07
2619	-0.40	3.26E-10
2620	-0.10	1.43E-03
2622	-0.20	1.18E-06
2624	-0.10	7.32E-05
2633	0.30	2.06E-06
2640	-0.40	2.23E-08
2646	-0.10	1.75E-03
2651	-0.10	9.43E-03
3788	0.30	1.24E-14
3789	0.20	1.46E-03
3792	0.20	3.49E-05
5590	-0.20	4.89E-05
5601	0.20	5.83E-05
5605	0.30	4.93E-09
5606	0.30	6.46E-08
5608	0.30	3.11E-19
5614	0.20	3.92E-03
9575	-0.20	3.46E-06
9580	0.10	2.78E-03
9581	0.10	4.58E-03
9587	-0.20	4.83E-06
9589	-0.10	6.46E-03
9590	-0.20	2.13E-06

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TABLE 17 - GENETIC MARKERS FOR CENTRE LIGAMENT

A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
2	0.10	4.65E-04	7082	0.20	4.42E-09	3538	-0.10	3.40E-03	10358	-0.19	1.34E-06	6819	-0.20	3.29E-03
3	0.10	3.62E-05	7084	-0.20	1.68E-06	3539	0.20	5.39E-09	10362	-0.15	2.03E-05	6820	-0.20	5.21E-04
6	-0.20	1.07E-03	7086	-0.30	7.62E-13	3540	-0.10	7.06E-05	10363	0.12	1.65E-05	6831	-0.10	9.60E-03
13	0.10	1.11E-06	7092	0.10	5.84E-05	3548	-0.40	1.73E-07	10366	-0.11	2.12E-03	6836	-0.20	1.37E-06
15	0.10	3.43E-04	7093	0.20	8.42E-04	3550	0.10	1.61E-06	10367	0.14	6.71E-07	6839	0.30	2.14E-22
16	0.10	3.46E-04	7095	0.10	1.16E-04	3554	0.10	7.49E-08	10368	0.11	7.66E-03	6843	-0.20	3.02E-07
22	-0.20	1.05E-07	7101	-0.10	6.22E-05	3557	-0.30	3.60E-04	10370	0.18	2.88E-11	6844	-0.10	9.12E-03
26	0.10	1.24E-03	7106	0.10	6.44E-04	3558	-0.30	2.39E-27	10371	-0.08	7.97E-03	6849	-0.50	3.00E-08
27	-0.10	4.55E-03	7108	-0.20	1.50E-04	3559	-0.40	8.78E-07	10374	-0.20	3.74E-13	6854	-0.10	8.74E-03
35	-0.20	2.89E-14	7112	-0.10	9.02E-03	3568	0.20	4.49E-11	10375	-0.18	2.56E-07	6856	-0.20	6.54E-08
36	-0.30	1.63E-09	7116	0.20	1.32E-16	3569	0.20	2.07E-09	10380	0.11	9.28E-03	6862	-0.20	1.01E-03
38	-0.10	6.84E-03	7122	-0.20	2.92E-03	3575	-0.30	1.73E-05	10381	-0.08	7.68E-03	6866	0.10	3.09E-03
39	-0.60	1.46E-12	7123	0.10	1.60E-05	3578	0.10	7.09E-03	10383	-0.15	6.43E-03	6867	-0.10	6.22E-03
44	-0.10	2.30E-03	7128	0.20	5.25E-16	3579	0.10	8.16E-04	10386	-0.12	2.30E-05	6869	-0.20	4.20E-11
46	-0.30	4.32E-14	7129	-0.10	3.47E-06	3580	-0.10	9.38E-03	10387	-0.11	5.39E-05	6870	-0.20	1.71E-04
50	-0.20	5.96E-03	7130	0.20	1.48E-05	3582	-0.20	1.90E-08	10393	-0.10	3.51E-03	6876	0.10	9.68E-06
52	-0.30	5.31E-22	7131	-0.10	9.13E-03	3585	-0.10	5.05E-03	10396	-0.20	2.71E-06	6879	-0.10	2.77E-05
54	0.10	3.78E-06	7135	0.10	5.47E-03	3588	-0.10	9.44E-05	10399	0.10	6.30E-04	6886	-0.10	9.85E-03
59	-0.40	2.31E-05	7139	-0.20	1.47E-07	3591	0.10	1.72E-04	10400	-0.13	5.97E-03	6887	-0.20	8.96E-08
61	-0.30	3.53E-08	7140	-0.30	2.24E-06	3593	-0.20	9.33E-13	10402	-0.14	7.81E-07	6889	-0.10	1.31E-04
63	-0.20	8.28E-17	7143	0.20	2.24E-04	3594	0.20	2.09E-11	10408	-0.13	6.28E-05	6894	0.20	4.38E-10
66	-0.20	1.35E-09	7149	0.20	2.46E-10	3595	-0.10	8.28E-03	10409	0.09	1.65E-03	6895	0.10	8.32E-06
67	0.20	9.32E-11	7150	0.10	6.53E-06	3596	-0.10	7.94E-06	10419	0.13	7.35E-03	6899	0.20	5.27E-06
71	-0.30	2.68E-14	7151	0.10	6.06E-06	3599	0.20	5.43E-08	10422	0.18	8.65E-07	6910	0.20	7.70E-10
73	0.10	4.09E-05	7161	-0.10	4.40E-05	3601	-0.20	2.87E-11	10423	0.18	1.11E-08	6919	-0.10	2.22E-05
75	-0.10	9.63E-06	7162	0.10	7.69E-04	3604	0.10	2.03E-03	10427	-0.32	5.06E-09	6921	-0.10	6.11E-03
77	-0.10	3.46E-03	7165	-0.20	6.32E-05	3613	0.10	4.80E-05	10436	-0.28	5.89E-06	6925	-0.30	7.54E-04
86	0.10	2.74E-03	7166	-0.20	6.88E-07	3614	-0.10	9.46E-05	10438	0.28	1.56E-27	6928	0.20	1.81E-08
99	0.20	3.90E-20	7181	-0.30	5.20E-03	3615	0.10	1.26E-04	10439	0.15	7.65E-07	6933	-0.20	1.57E-03
101	-0.30	6.75E-27	7187	0.20	1.32E-04	3617	0.10	4.26E-04	10441	0.17	2.38E-08	6934	-0.20	1.53E-03
106	0.20	2.54E-11	7188	-0.10	6.79E-04	3618	0.20	2.48E-16	10444	-0.40	5.52E-27	6936	-0.30	9.14E-13
122	-0.20	7.09E-03	7189	0.20	1.14E-08	3621	-0.20	1.53E-03	10446	-0.15	2.82E-03	6938	-0.10	4.43E-03
126	0.20	5.67E-03	7193	0.20	2.56E-04	3625	0.10	3.13E-13	10448	-0.10	1.76E-03	6945	0.20	1.11E-15
131	0.30	3.78E-23	7195	-0.20	5.67E-14	3630	-0.10	1.94E-03	10453	-0.30	1.44E-04	6951	0.10	9.75E-07
133	0.10	4.93E-04	7197	-0.20	5.36E-08	3631	-0.30	2.10E-17	10454	0.21	1.72E-15	6953	0.30	3.64E-31
142	-0.10	2.91E-03	7198	-0.10	2.09E-04	3632	-0.10	2.09E-03	10456	-0.20	5.27E-06	6954	-0.10	3.74E-03
145	0.10	8.94E-04	7199	-0.20	2.81E-08	3636	-0.20	3.88E-06	10457	0.10	4.92E-07	6961	0.20	7.32E-07

148	-0.10	8.79E-03	7200	-0.10	5.40E-03	3649	0.10	1.57E-03	10461	-0.18	6.39E-06	6962	0.20	6.71E-14
150	-0.10	3.03E-05	7202	-0.20	1.55E-03	3652	-0.20	6.84E-03	10462	0.17	1.05E-09	6967	-0.10	1.02E-06
152	0.30	8.23E-14	7204	0.10	1.25E-06	3655	-0.20	4.81E-05	10464	0.11	8.51E-04	6976	0.20	1.23E-09
153	-0.10	1.88E-03	7208	-0.20	4.67E-06	3658	0.20	1.03E-09	10467	-0.07	2.48E-03	6989	-0.20	3.39E-03
154	-0.20	7.12E-05	7218	-0.20	5.02E-08	3661	-0.20	9.82E-13	10474	-0.19	1.90E-07	6991	-0.10	8.20E-03
162	-0.20	2.84E-04	7219	-0.10	7.26E-06	3666	-0.10	4.74E-03	10478	0.23	1.91E-06	6996	0.20	6.93E-18
168	0.10	2.52E-05	7223	-0.20	1.64E-07	3667	0.20	1.40E-12	10480	-0.16	6.63E-06	6998	-0.30	1.99E-10
171	0.10	1.57E-03	7225	-0.20	1.06E-03	3668	0.20	9.23E-15	10481	0.16	9.24E-09	6999	-0.20	1.40E-13
174	0.20	3.05E-05	7227	0.10	2.56E-05	3673	0.30	5.35E-10	10483	0.19	9.37E-05	7011	-0.20	9.64E-08
176	-0.20	2.66E-15	7228	0.10	8.91E-06	3683	-0.20	2.83E-10	10487	-0.19	1.38E-07	7012	-0.20	8.09E-08
177	0.10	1.10E-05	7229	0.10	9.99E-05	3693	-0.10	5.72E-04	10490	-0.17	1.76E-07	7021	0.10	7.86E-03
181	0.20	3.48E-15	7231	0.20	2.37E-09	3696	-0.10	1.81E-03	10491	0.14	2.20E-03	7023	-0.10	6.54E-03
182	-0.10	9.76E-03	7232	-0.20	2.86E-15	3697	-0.10	4.31E-06	10492	0.12	3.03E-05	7027	-0.20	5.62E-06
186	0.10	3.85E-03	7233	0.10	1.90E-05	3700	0.20	6.11E-09	10494	0.19	3.58E-17	7028	0.30	6.91E-10
191	-0.20	2.36E-16	7238	-0.10	1.59E-04	3703	0.10	9.98E-05	10495	-0.13	3.50E-05	7031	-0.10	1.68E-03
194	0.10	1.19E-06	7239	-0.20	7.24E-04	3704	0.10	5.45E-04	10503	0.09	2.99E-03	7044	-0.20	1.27E-08
203	-0.10	2.60E-05	7245	0.10	1.77E-11	3705	0.10	3.85E-03	10507	-0.15	3.91E-06	7048	-0.10	1.80E-03
209	0.10	9.74E-07	7247	-0.20	1.25E-05	3706	-0.20	7.32E-14	10509	-0.13	2.45E-04	7049	0.10	8.09E-03
210	-0.10	7.43E-03	7251	0.10	1.86E-04	3708	0.10	7.45E-05	10515	-0.30	3.93E-08	7052	-0.30	7.70E-04
212	0.10	1.52E-03	7255	0.20	1.76E-06	3711	0.10	4.35E-03	10520	-0.43	1.15E-10	7053	-0.10	5.67E-05
215	-0.20	5.98E-06	7263	0.10	4.10E-05	3713	0.10	4.81E-05	10524	-0.08	9.72E-03	7056	-0.10	1.88E-03
217	0.20	8.65E-11	7269	0.20	1.20E-06	3714	-0.10	1.09E-05	10533	-0.13	7.36E-03	7063	0.10	2.91E-03
219	0.20	4.40E-07	7270	-0.10	3.18E-06	3721	0.10	7.07E-03	10537	-0.14	4.19E-06	7064	0.10	1.01E-03
220	-0.10	3.98E-04	7271	-0.10	1.76E-07	3722	0.10	1.65E-06	10538	0.19	1.56E-09	7069	-0.10	9.01E-03
314														
221	-0.10	3.43E-03	7275	-0.30	5.68E-04	3723	-0.20	2.11E-03	10539	0.15	1.92E-08	6630	-0.10	2.44E-03
222	-0.20	2.60E-07	7279	-0.20	2.63E-14	3725	0.10	4.98E-04	10542	0.05	6.07E-03	6633	-0.10	1.87E-03
224	0.20	4.61E-03	7280	-0.10	6.98E-03	3726	0.10	3.21E-03	10543	-0.23	1.69E-08	6635	-0.30	1.21E-08
231	-0.20	8.17E-11	7285	0.20	4.14E-04	3728	0.20	4.99E-12	10550	-0.10	6.18E-04	6639	0.20	1.19E-16
237	-0.10	4.91E-03	7286	0.10	3.40E-03	3729	-0.20	8.13E-13	10555	0.24	1.02E-07	6640	-0.20	3.95E-07
246	-0.30	3.74E-08	7289	0.10	7.86E-07	3730	0.10	1.17E-05	10560	-0.08	7.58E-03	6643	0.20	2.15E-12
249	-0.20	6.07E-12	7300	0.10	2.02E-04	3734	0.20	1.15E-08	10563	-0.19	2.81E-04	6647	0.10	6.03E-05
250	-0.10	9.97E-04	7305	-0.10	1.91E-04	3735	-0.20	9.26E-06	10565	-0.10	7.74E-03	6648	-0.40	5.23E-07
251	0.10	8.36E-04	7310	-0.10	2.50E-06	3740	-0.20	1.93E-07	10569	0.10	3.12E-04	6649	-0.20	6.62E-03
257	0.20	2.50E-12	7311	-0.20	2.65E-06	3745	0.10	5.67E-06	10570	-0.16	2.00E-06	6651	-0.10	2.63E-03
259	0.20	1.22E-04	7313	0.20	2.21E-10	3749	-0.10	6.83E-06	10576	-0.14	4.24E-07	6659	0.30	3.61E-21
265	-0.10	1.24E-03	7315	-0.20	2.95E-08	3750	-0.10	2.21E-04	10578	-0.09	3.83E-03	6660	-0.30	2.96E-13
270	0.10	4.35E-09	7316	-0.20	3.96E-07	3751	-0.10	9.68E-03	10582	0.05	9.35E-03	6668	0.20	1.70E-08
272	-0.10	2.68E-07	7317	-0.20	2.19E-06	3752	-0.20	4.29E-08	10584	-0.17	2.58E-09	6669	0.10	1.97E-03
276	-0.30	2.76E-04	7322	-0.10	1.82E-06	3753	-0.20	1.38E-13	10586	-0.20	2.37E-04	6671	-0.20	2.17E-13

282	0.20	1.98E-10	7323	-0.10	9.93E-03	3755	0.20	6.34E-03	10590	-0.16	1.06E-07	6672	-0.10	7.46E-03
285	-0.10	2.22E-03	7329	-0.40	8.47E-09	3759	-0.30	2.39E-10	10593	0.11	9.74E-05	6675	-0.20	1.19E-04
298	0.10	6.21E-05	7331	0.30	3.25E-10	3760	0.20	5.92E-17	10601	-0.12	7.19E-05	6676	-0.10	8.44E-05
305	0.10	1.06E-04	7335	-0.20	6.74E-04	3762	-0.20	7.92E-05	10604	-0.30	1.18E-14	6678	0.20	3.01E-07
307	0.20	4.90E-10	7340	-0.20	1.69E-06	3763	0.30	9.73E-10	10605	-0.11	2.27E-03	6681	0.20	1.82E-07
308	-0.10	1.54E-03	7345	0.20	1.19E-07	3765	-0.10	2.75E-05	10608	-0.24	2.14E-14	6683	-0.10	3.06E-05
309	0.10	6.52E-04	7350	0.10	6.59E-04	3768	-0.30	2.30E-07	10612	-0.13	1.86E-03	6686	-0.10	3.56E-03
312	-0.20	2.16E-08	7357	0.20	4.19E-12	3770	0.20	1.26E-08	10622	-0.29	6.17E-06	6689	-0.20	6.86E-08
315	0.20	9.93E-08	7358	0.10	2.16E-04	3772	-0.30	1.71E-10	10624	-0.11	2.20E-03	6690	-0.30	3.98E-09
318	-0.20	1.63E-09	7360	-0.20	9.45E-05	3776	-0.30	1.58E-17	10625	0.17	7.36E-09	6692	0.10	6.53E-03
320	-0.20	2.85E-05	7361	0.10	4.78E-05	3777	-0.20	1.42E-03	10627	-0.08	6.25E-03	6697	0.30	2.21E-18
321	0.10	2.98E-05	7362	-0.20	4.73E-07	3779	0.10	2.56E-08	10633	-0.19	1.36E-09	6703	-0.20	5.65E-06
323	-0.10	4.61E-03	7367	-0.10	3.77E-05	3780	0.20	8.90E-14	10634	0.11	2.85E-04	6706	-0.10	4.38E-06
327	-0.10	1.91E-04	7374	0.30	4.03E-21	3785	-0.10	2.96E-03	10636	-0.19	1.97E-03	6708	-0.20	1.22E-06
328	-0.10	5.07E-04	7376	0.20	7.20E-09	3786	-0.10	2.87E-03	10639	-0.07	8.36E-03	6709	0.20	3.48E-08
330	-0.30	1.78E-09	7378	0.10	3.12E-03	3788	-0.30	9.18E-17	10644	0.14	7.96E-03	6713	-0.10	9.03E-03
331	-0.20	7.70E-08	7386	-0.10	9.59E-07	3789	-0.10	9.40E-03	10648	0.17	9.88E-03	6714	-0.10	3.46E-07
333	0.30	4.99E-22	7388	-0.10	8.35E-07	3792	-0.10	3.38E-03	10649	0.13	9.08E-07	6716	0.10	1.53E-06
335	-0.20	4.19E-05	7390	0.20	5.45E-07	3793	-0.10	2.99E-06	10653	0.11	2.68E-04	6717	0.10	6.02E-06
336	-0.20	6.30E-12	7396	0.20	1.03E-07	3796	-0.30	5.08E-15	10655	-0.14	1.30E-07	6718	-0.20	3.71E-05
337	0.20	1.34E-13	7403	-0.30	9.88E-11	3797	-0.30	1.93E-15	10668	-0.30	1.06E-09	6722	-0.20	2.34E-08
343	-0.60	9.23E-09	7404	-0.30	7.86E-11	3799	-0.20	3.52E-03	10674	-0.19	1.91E-10	6724	0.20	1.70E-09
345	-0.20	6.64E-06	7406	0.10	4.81E-04	3802	-0.20	2.37E-03	10677	0.21	3.07E-13	6727	0.30	1.57E-14
348	-0.10	3.20E-05	7410	0.20	9.19E-08	3804	0.10	8.28E-07	10678	-0.20	9.97E-04	6735	0.20	5.57E-08
354	-0.30	5.17E-11	7414	0.10	1.08E-03	3805	0.10	3.65E-03	10687	0.13	1.93E-05	6748	0.10	7.64E-04
359	0.10	2.04E-04	7416	-0.10	7.87E-04	3808	-0.20	2.77E-08	10688	-0.18	4.43E-10	6749	-0.30	1.16E-11
363	-0.20	3.66E-03	7421	-0.10	1.40E-03	3810	-0.20	1.08E-07	10711	-0.09	2.15E-03	6751	-0.10	9.35E-05
364	-0.20	2.34E-03	7424	0.20	2.53E-09	3812	-0.20	3.22E-14	10717	-0.18	4.14E-07	6754	0.10	7.88E-04
366	-0.10	6.11E-03	7426	0.20	1.90E-12	3818	-0.20	1.63E-04	10722	0.21	3.05E-09	6755	0.20	3.60E-08
367	-0.10	6.07E-05	7427	-0.20	8.53E-05	3821	0.20	6.61E-04	10724	-0.18	6.00E-03	6757	-0.30	5.26E-16
369	0.10	7.01E-03	7429	0.20	4.13E-12	3822	-0.10	6.17E-04	10728	0.13	7.97E-03	6760	-0.10	9.75E-04
370	0.10	2.09E-03	7430	-0.20	1.58E-09	3825	0.10	1.05E-03	10729	0.08	6.16E-03	6762	-0.10	1.22E-03
372	-0.20	8.50E-04	7431	0.10	1.24E-05	3834	-0.10	6.76E-04	10733	0.13	1.47E-04	6765	0.10	1.47E-03
373	0.20	1.01E-06	7434	0.20	7.70E-13	3841	-0.10	2.60E-03	10734	0.10	2.59E-04	6770	-0.10	1.09E-04
376	-0.30	1.00E-06	7441	-0.20	5.30E-08	3842	-0.10	2.07E-03	10738	-0.21	3.02E-06	6774	-0.10	2.72E-04
377	-0.30	6.54E-05	7443	-0.20	1.91E-03	3847	-0.10	1.51E-03	10744	-0.13	4.90E-03	6775	0.20	1.91E-06
380	0.10	1.63E-03	7447	-0.10	9.92E-05	3851	-0.10	8.26E-04	10748	0.14	4.53E-06	6776	0.20	3.62E-08
381	0.20	5.57E-10	7448	-0.20	2.21E-18	3859	-0.20	4.20E-14	10758	-0.28	3.53E-09	6780	-0.20	5.72E-11
382	0.10	1.16E-03	7449	-0.10	4.49E-05	3862	0.10	2.48E-04	10763	-0.36	1.42E-09	6783	-0.10	2.58E-03
386	-0.20	6.39E-03	7450	-0.10	1.12E-03	3864	-0.10	2.16E-03	10769	-0.12	8.81E-05	6790	-0.20	2.55E-08

393	0.30	6.57E-16	7453	-0.10	7.72E-05	3865	-0.10	3.89E-04	10775	-0.14	6.66E-07	6798	0.20	7.72E-05
394	-0.30	7.76E-22	7454	-0.10	2.15E-03	3866	0.10	1.35E-03	10777	0.21	3.56E-03	6799	0.10	8.60E-07
395	-0.10	4.73E-05	7460	0.20	2.13E-14	3878	-0.20	4.48E-09	10778	0.23	7.02E-18	6805	0.10	5.28E-04
396	-0.20	3.41E-11	7464	-0.10	6.18E-04	3879	-0.20	5.62E-07	10785	0.14	1.31E-03	6806	-0.10	4.84E-05
397	0.10	1.45E-07	7468	0.10	5.76E-04	3884	-0.30	2.15E-17	10791	-0.12	3.34E-05	6808	-0.20	3.83E-04
404	0.20	1.34E-12	7471	-0.20	1.61E-06	3885	0.20	6.48E-10	10792	-0.09	4.47E-03	6809	0.10	9.91E-03
407	-0.10	4.92E-03	7476	-0.30	2.53E-06	3886	0.20	1.61E-14	10798	0.10	3.31E-04	6813	-0.20	4.01E-04
408	-0.30	2.44E-09	7477	-0.10	3.61E-04	3889	-0.30	4.66E-05	10801	-0.13	2.00E-05	6817	-0.30	3.58E-04
415														
410	-0.20	2.81E-13	7478	-0.40	9.21E-08	3900	-0.10	1.13E-07	10802	0.15	3.02E-05	6818	-0.30	4.90E-27
411	-0.20	3.71E-13	7486	-0.10	1.27E-04	3902	-0.30	3.28E-15	10807	-0.11	2.45E-04	10114	0.14	6.14E-05
412	-0.30	1.04E-09	7493	0.20	7.48E-14	3909	-0.10	6.45E-05	10811	-0.16	6.76E-03	10115	-0.10	1.88E-03
415	-0.20	2.00E-09	7496	-0.20	7.59E-08	3912	-0.10	7.29E-03	10813	0.14	4.96E-06	10117	-0.11	2.96E-04
425	-0.20	4.63E-08	7498	0.10	1.82E-03	3914	-0.30	1.11E-20	10818	-0.16	1.97E-07	10119	-0.16	5.58E-08
429	0.20	8.78E-11	7499	-0.20	1.95E-03	3917	0.10	1.37E-04	10837	0.20	6.55E-15	10120	0.14	7.14E-04
433	-0.10	2.63E-04	7502	-0.10	3.04E-03	3918	-0.20	1.68E-05	10838	0.22	2.20E-15	10124	-0.16	1.82E-08
435	-0.20	1.73E-03	7503	-0.20	6.98E-07	3919	0.20	1.72E-03	10854	-0.12	4.76E-03	10129	0.10	1.69E-04
444	-0.10	5.57E-05	7504	-0.30	9.21E-08	3922	-0.10	6.63E-07	10865	0.12	5.61E-05	10132	0.16	5.38E-08
447	-0.10	8.20E-05	7506	-0.10	5.08E-07	3925	0.20	2.34E-05	10866	0.09	2.09E-03	10138	-0.23	9.89E-04
450	0.10	3.95E-04	7507	-0.20	6.07E-10	3926	0.20	1.99E-12	10872	-0.26	3.10E-13	10139	-0.28	3.81E-25
452	0.10	2.87E-03	7508	-0.20	2.47E-03	3927	-0.20	5.09E-12	10875	-0.18	2.02E-06	10140	0.19	1.06E-06
467	-0.20	1.38E-12	7509	0.20	1.23E-08	3929	0.10	1.55E-04	10877	0.16	1.77E-03	10148	-0.17	5.64E-09
476	0.30	1.55E-19	7515	-0.30	1.22E-15	3937	-0.20	3.22E-08	10878	0.09	7.88E-04	10151	-0.14	5.75E-03
478	0.20	8.65E-11	7516	-0.30	7.64E-15	3938	0.20	1.42E-06	10888	-0.27	1.33E-13	10157	-0.23	2.40E-15
479	-0.50	6.42E-09	7523	-0.10	2.90E-04	3940	0.10	8.21E-07	10891	-0.13	3.04E-04	10160	0.24	5.10E-20
481	0.10	7.43E-04	7525	-0.10	7.96E-03	3945	-0.30	7.47E-07	10895	-0.09	4.50E-03	10161	-0.23	3.50E-08
488	-0.10	2.74E-04	7526	-0.10	9.45E-04	3946	0.30	6.81E-35	10897	0.17	9.17E-03	10162	-0.29	1.60E-19
497	-0.30	2.61E-16	7527	0.20	5.90E-06	3947	-0.20	1.91E-07	10898	0.17	7.28E-03	10171	-0.13	9.23E-03
499	0.20	8.29E-12	7530	0.10	3.00E-04	3951	0.10	4.41E-03	10902	0.09	1.87E-03	10176	0.13	2.55E-06
505	0.10	1.66E-04	7532	-0.20	3.70E-06	3953	-0.10	9.78E-04	10906	-0.10	4.13E-03	10177	0.23	4.08E-15
507	-0.10	1.78E-04	7533	0.10	5.52E-06	3956	-0.10	1.88E-03	10908	0.11	7.08E-04	10182	0.12	4.90E-04
508	0.20	1.34E-18	7537	0.10	2.57E-05	3957	-0.10	1.78E-04	10911	-0.10	2.48E-04	10187	-0.09	5.37E-04
511	-0.10	2.37E-03	7539	0.10	9.40E-03	3961	0.10	1.66E-03	10913	-0.14	5.01E-07	10193	-0.12	4.82E-04
522	-0.20	5.62E-04	7540	0.10	1.06E-05	3964	-0.20	6.82E-04	10917	-0.13	9.14E-04	10194	-0.14	8.08E-06
529	-0.20	8.62E-07	7545	0.20	1.42E-08	3969	-0.10	1.68E-04	10923	-0.25	4.68E-08	10196	-0.25	6.44E-04
530	-0.20	9.26E-03	7547	-0.10	1.99E-03	3971	0.10	1.89E-03	10924	0.14	7.09E-07	10198	0.18	1.60E-09
531	0.20	3.17E-10	7548	-0.20	9.27E-08	3972	0.30	7.52E-18	10926	-0.34	4.17E-08	10199	0.27	2.33E-24
532	0.10	2.58E-05	7549	-0.20	2.48E-14	3978	-0.10	2.45E-07	10934	-0.17	1.55E-06	10200	0.24	5.97E-19
534	-0.20	2.83E-11	7559	0.20	3.34E-09	3983	0.10	1.17E-03	10940	-0.08	2.99E-03	10204	0.13	7.07E-05
535	0.10	6.28E-03	7560	0.20	1.44E-08	3985	-0.30	2.88E-04	10943	-0.16	1.08E-03	10206	0.16	2.07E-07

537	0.10	3.17E-10	7561	0.10	2.15E-06	3993	-0.10	1.10E-03	10948	-0.11	2.58E-04	10210	0.11	4.61E-03
539	-0.10	5.99E-04	7563	-0.20	1.12E-03	3994	0.20	9.55E-09	10950	0.10	4.98E-04	10212	-0.12	4.07E-03
540	-0.20	3.93E-12	7564	-0.10	2.16E-05	3996	-0.10	4.13E-03	10951	0.12	8.61E-03	10225	0.22	6.87E-05
544	-0.10	5.68E-03	7565	-0.20	7.79E-04	4001	0.20	4.63E-04	10952	0.19	9.13E-11	10231	0.11	1.83E-03
546	-0.10	7.09E-06	7568	0.20	3.20E-07	4002	-0.10	1.08E-03	10956	0.12	8.36E-03	10233	0.08	8.39E-03
550	0.20	1.06E-08	7569	0.20	3.30E-08	4009	0.10	7.89E-04	10958	0.10	2.88E-03	10258	-0.12	2.35E-03
552	0.10	5.33E-04	7570	-0.10	2.24E-08	4011	0.10	6.22E-06	10961	0.13	3.20E-03	10265	-0.14	9.00E-03
553	-0.10	6.45E-04	7571	0.10	7.19E-05	4015	0.20	1.16E-09	10962	0.08	6.45E-03	10266	0.13	7.37E-05
555	0.10	1.72E-03	7572	0.10	7.48E-04	4017	-0.20	2.69E-08	10965	0.15	3.36E-08	10269	-0.21	1.65E-04
561	-0.30	8.81E-16	7573	0.30	1.73E-15	4021	0.20	2.20E-06	10973	-0.19	4.31E-03	10271	-0.08	8.80E-05
563	0.10	2.06E-04	7575	-0.30	1.87E-07	4022	-0.10	3.98E-04	10977	-0.19	3.50E-09	10272	0.11	3.56E-03
565	0.20	2.27E-12	7578	-0.20	6.73E-11	4025	0.30	1.46E-23	10980	0.23	1.23E-18	10274	-0.21	3.19E-07
570	-0.10	4.68E-06	7580	0.10	2.10E-04	4027	0.10	4.20E-03	10985	-0.21	3.82E-14	10276	-0.37	4.91E-06
578	0.10	7.43E-03	7581	-0.10	2.85E-05	4028	-0.20	5.35E-04	10987	-0.22	4.92E-07	10280	0.15	2.51E-06
580	-0.20	4.01E-11	7582	-0.20	2.16E-08	4031	-0.20	6.22E-05	10991	0.11	4.41E-04	10283	-0.18	1.03E-06
582	0.20	4.25E-09	7584	0.20	2.37E-09	4032	0.20	8.95E-16	10992	-0.16	7.56E-07	10286	-0.20	1.93E-10
586	-0.10	1.84E-05	7594	-0.20	4.08E-06	4039	0.10	4.06E-05	10994	0.08	9.56E-03	10288	0.19	1.08E-06
588	-0.20	1.93E-03	7597	-0.10	6.96E-08	4040	-0.10	1.86E-03	10995	-0.18	3.29E-06	10291	-0.27	1.28E-19
592	0.20	7.80E-09	7601	-0.20	1.23E-10	4041	-0.20	1.85E-05	11007	-0.10	4.00E-03	10299	0.21	1.55E-09
595	-0.20	4.36E-06	7603	-0.10	3.06E-04	4043	0.10	5.89E-03	11012	-0.13	3.20E-05	10300	-0.16	4.72E-06
614	-0.20	1.68E-12	7605	-0.30	1.48E-12	4044	-0.20	2.03E-07	11013	-0.15	7.39E-06	10302	0.19	1.63E-11
615	0.10	1.01E-03	7606	0.10	1.62E-05	4045	0.20	7.73E-09	11015	0.16	2.01E-04	10304	-0.18	1.37E-07
617	-0.10	4.66E-04	7619	0.10	2.90E-04	4050	0.10	1.10E-04	11019	0.08	9.35E-03	10305	-0.15	6.56E-08
620	0.10	3.22E-07	7629	0.10	3.25E-04	4051	-0.20	7.84E-18	11029	0.23	2.18E-13	10314	0.15	9.86E-04
623	0.10	9.23E-05	7635	-0.30	1.28E-08	4052	-0.30	4.60E-20	11036	-0.15	4.16E-05	10324	-0.09	8.84E-04
629	0.30	1.63E-22	7642	-0.10	8.48E-04	4056	0.10	6.73E-03	11048	-0.32	3.61E-08	10327	-0.17	9.60E-06
633	0.10	9.47E-04	7644	-0.10	1.82E-06	4060	0.20	3.19E-10	11062	0.08	2.97E-03	10331	0.11	5.18E-04
636	0.10	1.89E-03	7645	-0.10	3.54E-03	4061	0.20	5.55E-10	11077	0.13	3.41E-03	10333	0.13	7.80E-07
637	-0.10	2.55E-05	7648	-0.30	6.08E-03	4065	-0.20	6.56E-04	11086	-0.17	7.15E-05	10341	-0.21	3.96E-09
640	-0.10	4.73E-04	7649	-0.20	1.84E-09	4070	-0.20	7.89E-10	11088	0.25	3.79E-20	10342	0.12	5.35E-04
644	0.30	7.08E-24	7651	0.20	1.80E-03	4075	-0.30	8.60E-21	11090	0.17	1.76E-05	10343	0.12	2.99E-05
645	-0.10	1.07E-04	7652	-0.10	1.43E-03	4076	-0.40	1.82E-12	11092	0.14	3.25E-05	10346	-0.22	3.98E-03
316														
647	0.10	1.19E-05	7656	0.10	6.91E-03	4079	0.10	2.53E-03	11094	0.10	1.82E-03	10353	0.20	3.09E-07
648	0.10	5.98E-03	7657	0.10	2.18E-03	4081	0.10	5.35E-06	11096	0.23	1.03E-06	10355	0.10	3.46E-04
649	0.10	3.98E-03	7658	-0.40	2.15E-05	4084	0.20	1.39E-09	11101	0.11	8.19E-05	3313	-0.30	6.98E-18
652	0.20	1.10E-07	7659	-0.30	7.84E-10	4088	-0.10	7.54E-03	11102	0.19	1.07E-12	3315	-0.20	4.45E-04
653	0.20	1.67E-05	7660	0.30	5.14E-14	4091	-0.40	2.57E-04	11103	0.10	4.16E-04	3317	0.30	3.29E-19
654	0.10	8.47E-03	7665	0.20	7.86E-20	4096	0.20	1.59E-11	11107	-0.10	8.95E-04	3321	0.20	2.16E-17
655	0.10	1.93E-04	7666	-0.10	4.45E-04	4097	-0.10	1.20E-06	11110	-0.17	3.37E-05	3322	-0.20	2.47E-09

657	-0.20	3.85E-08	7668	-0.17	3.51E-04	4098	-0.20	2.71E-08	11120	0.11	7.82E-04	3325	-0.10	5.77E-03
663	-0.30	1.44E-12	7684	-0.09	8.67E-03	4106	-0.10	1.53E-07	11127	-0.19	1.27E-09	3327	-0.20	1.04E-03
664	-0.30	2.72E-19	7688	-0.13	5.34E-06	4119	0.20	5.80E-04	11130	-0.18	1.17E-06	3334	-0.20	1.57E-05
667	-0.10	9.30E-04	7689	0.21	2.48E-17	4120	-0.10	2.11E-05	11132	0.09	5.29E-03	3340	0.10	2.56E-04
668	-0.20	9.07E-14	7690	-0.21	2.71E-13	4121	-0.20	1.15E-10	11139	-0.13	6.96E-06	3341	-0.10	1.55E-04
672	0.20	4.95E-10	7691	-0.21	1.37E-13	4122	-0.10	4.47E-03	11149	0.15	1.68E-07	3343	-0.10	2.27E-09
678	0.10	7.34E-04	7695	-0.08	6.06E-03	4130	0.20	2.65E-12	11151	0.22	1.77E-07	3344	-0.10	4.27E-07
681	0.10	2.43E-07	7696	0.19	7.53E-03	4134	-0.20	3.31E-10	11153	-0.21	4.08E-13	3353	0.20	7.12E-11
688	0.20	2.88E-10	7699	0.10	1.72E-03	4137	0.20	4.40E-06	11157	-0.10	2.84E-03	3359	-0.20	1.21E-12
690	-0.30	5.17E-12	7703	0.11	6.60E-04	4155	0.20	1.04E-08	11159	0.16	7.76E-10	3360	-0.10	5.66E-03
693	0.20	1.11E-06	7709	0.13	2.12E-03	4156	0.20	1.03E-13	11166	-0.13	1.52E-06	3367	0.10	4.53E-05
696	-0.10	3.00E-03	7721	-0.34	1.09E-15	4158	0.10	2.08E-03	11172	-0.25	1.48E-17	3371	0.20	2.44E-14
697	0.10	2.22E-03	7722	-0.44	4.27E-12	4159	0.20	1.01E-08	11173	0.24	6.02E-18	3372	-0.20	1.35E-12
703	0.20	1.31E-10	7723	-0.14	1.88E-03	4162	-0.10	5.22E-04	11174	0.17	5.52E-09	3374	-0.20	6.71E-05
705	-0.10	3.56E-05	7724	0.11	1.80E-04	4165	-0.20	4.69E-08	11181	-0.31	3.81E-08	3379	-0.30	9.90E-09
707	0.20	4.37E-08	7725	0.08	5.55E-04	4166	-0.20	1.03E-10	11182	0.11	1.08E-04	3390	0.20	1.78E-04
708	0.10	8.67E-03	7727	0.20	3.98E-13	4167	0.10	1.26E-03	11184	0.19	1.51E-11	3391	0.20	4.60E-13
718	-0.20	3.95E-11	7728	-0.19	3.10E-03	4170	0.30	1.68E-23	11188	0.11	2.02E-04	3392	0.20	6.30E-11
722	0.10	6.59E-07	7729	0.09	3.38E-03	4184	-0.10	1.44E-04	11191	-0.08	5.47E-03	3394	0.10	7.13E-05
724	-0.20	1.17E-10	7732	-0.15	1.36E-06	4185	0.10	1.02E-04	11196	0.22	5.46E-16	3395	0.20	3.31E-09
730	-0.10	2.51E-04	7736	-0.22	1.88E-03	4187	0.20	1.91E-07	11201	-0.17	5.42E-04	3396	-0.20	4.49E-08
735	0.10	6.62E-03	7737	-0.21	9.74E-14	4194	-0.10	2.03E-05	11202	-0.10	5.51E-04	3407	0.20	4.50E-10
736	0.20	1.50E-17	7738	0.20	2.05E-16	4197	-0.10	5.72E-06	11204	-0.20	4.09E-05	3415	0.20	1.19E-05
741	0.20	8.24E-05	7742	-0.11	3.52E-04	4202	0.20	4.68E-15	11206	-0.12	1.15E-04	3416	0.10	3.85E-05
742	0.20	4.14E-05	7743	0.11	2.50E-04	4203	0.10	2.80E-05	11210	0.19	7.36E-06	3417	0.20	3.54E-12
749	-0.10	1.35E-04	7745	0.22	5.60E-16	4204	-0.10	2.96E-05	11216	-0.13	2.07E-03	3418	0.10	4.14E-05
753	-0.20	2.96E-08	7747	0.08	4.09E-03	4205	0.10	3.27E-05	11219	-0.11	1.57E-04	3419	0.10	5.18E-04
754	0.20	5.99E-06	7748	-0.27	7.44E-03	4211	0.10	2.03E-04	11224	0.12	4.20E-05	3420	0.10	1.52E-06
760	-0.50	2.32E-08	7750	0.22	9.57E-09	4212	-0.10	7.04E-03	11231	-0.10	6.85E-03	3423	0.10	4.81E-06
761	0.20	4.40E-07	7751	0.22	2.32E-09	4214	-0.30	6.92E-08	11236	-0.13	1.26E-03	3428	-0.10	2.57E-03
762	0.10	4.22E-06	7753	0.17	3.04E-07	4215	0.10	4.77E-06	11238	0.11	1.42E-03	3438	-0.10	2.14E-09
765	-0.30	6.86E-04	7754	0.09	6.20E-04	4217	0.10	2.11E-07	11239	-0.12	2.88E-03	3439	-0.30	3.70E-08
766	0.20	6.24E-15	7755	0.12	1.44E-09	4219	0.20	4.27E-06	11244	0.16	1.02E-08	3442	-0.10	7.93E-03
767	-0.20	2.68E-03	7759	-0.12	2.39E-05	4231	0.20	8.99E-15	11251	0.08	5.54E-03	3444	-0.20	5.16E-04
769	-0.20	5.81E-14	7763	-0.12	5.20E-04	4232	0.10	3.98E-03	11254	-0.10	1.89E-06	3446	0.10	2.00E-03
772	-0.10	6.11E-03	7770	0.14	1.01E-04	4234	-0.30	1.61E-14	11280	0.18	1.87E-04	3448	0.10	4.29E-04
773	0.10	6.47E-04	7773	0.13	8.29E-04	4236	0.20	1.39E-07	11282	0.14	3.19E-03	3451	0.20	2.93E-05
774	-0.20	1.12E-04	7777	-0.23	4.55E-15	4244	-0.20	5.14E-12	11284	-0.15	1.70E-06	3455	-0.10	2.38E-03
776	0.30	1.14E-20	7779	-0.28	3.77E-04	4245	-0.20	2.01E-07	11287	-0.09	2.28E-03	3465	0.10	3.29E-04
777	-0.20	4.92E-05	7781	0.17	3.49E-09	4246	-0.20	4.63E-13	11290	-0.18	9.50E-09	3466	0.20	1.93E-08

778	0.20	4.28E-05	7782	-0.13	4.42E-05	4248	-0.30	5.18E-05	11291	-0.12	3.63E-04	3467	0.20	1.41E-10
779	-0.40	5.04E-21	7785	-0.20	9.98E-07	4249	0.10	6.24E-03	11292	0.20	4.95E-10	3468	0.10	1.79E-06
781	0.10	1.45E-04	7788	0.09	1.17E-03	4252	-0.20	4.24E-11	11294	-0.16	5.98E-05	3480	-0.10	4.02E-04
782	-0.10	1.23E-04	7789	0.10	1.77E-03	4255	-0.10	9.56E-03	11298	-0.18	6.52E-03	3482	-0.10	5.51E-04
784	-0.20	3.13E-06	7797	0.07	9.76E-03	4259	0.20	1.13E-12	11302	0.17	4.15E-07	3483	0.10	6.69E-03
788	-0.20	1.48E-03	7808	-0.23	7.78E-04	4261	0.20	4.16E-11	11303	-0.09	1.92E-03	3485	-0.30	1.35E-18
790	0.20	1.19E-10	7810	-0.14	9.83E-06	4264	-0.10	1.05E-03	11305	0.11	9.25E-04	3489	0.10	5.99E-06
793	0.20	1.75E-13	7812	-0.15	1.60E-03	4265	0.20	2.53E-09	11306	-0.18	4.06E-12	3490	0.10	4.18E-07
794	0.20	6.69E-09	7813	-0.15	1.04E-03	4266	-0.20	1.40E-03	11310	0.08	4.22E-03	3491	0.20	4.78E-20
799	0.30	4.42E-06	7815	-0.22	2.40E-11	4268	-0.10	3.03E-07	11311	-0.15	1.43E-06	3497	-0.10	9.84E-04
801	-0.40	1.81E-11	7816	-0.14	5.79E-05	4271	-0.30	8.27E-05	11312	0.15	5.85E-07	3500	-0.20	3.75E-04
808	-0.30	2.65E-17	7822	-0.32	3.65E-26	4272	0.10	1.29E-03	11314	-0.15	1.56E-07	3503	-0.10	2.53E-03
811	0.10	9.59E-04	7823	0.17	1.86E-10	4274	-0.10	4.98E-06	11316	-0.15	1.67E-06	3506	-0.10	6.42E-03
812	0.20	3.38E-11	7827	-0.21	8.24E-11	4276	-0.20	4.03E-06	11321	-0.18	4.16E-09	3510	-0.10	1.80E-06
825	-0.10	5.29E-03	7828	-0.28	3.68E-12	4277	-0.20	1.73E-06	11323	-0.23	1.03E-06	3511	0.20	9.21E-07
826	-0.20	7.36E-03	7841	0.22	1.41E-06	4278	-0.10	4.74E-05	11330	-0.09	1.94E-03	3514	-0.20	1.84E-08
317														
827	0.10	6.65E-05	7843	0.14	1.71E-07	4279	-0.10	8.73E-04	11337	0.14	1.57E-07	3523	0.10	1.10E-03
829	0.20	2.37E-12	7854	-0.36	1.05E-07	4285	0.20	1.03E-07	11340	0.17	1.27E-10	3527	0.10	1.36E-03
833	-0.30	3.71E-04	7857	-0.16	4.11E-04	4289	0.10	4.03E-03	11343	0.19	7.76E-12	3530	-0.10	1.63E-06
837	-0.20	1.26E-06	7858	-0.22	2.40E-12	4294	0.10	2.48E-03	11344	0.15	2.20E-07	14738	-0.30	9.96E-07
840	-0.30	4.36E-11	7859	-0.08	7.56E-03	4297	0.20	3.14E-13	11348	-0.23	8.04E-06	14739	0.22	3.51E-16
844	0.10	4.95E-03	7860	-0.31	4.52E-12	4298	-0.10	1.35E-03	11352	0.10	1.92E-03	14773	-0.23	1.07E-11
846	-0.20	4.42E-06	7861	-0.20	8.43E-06	4299	-0.20	2.95E-10	11355	-0.18	1.02E-05	14777	-0.15	3.40E-06
850	-0.10	8.20E-04	7862	0.11	5.24E-05	4301	-0.30	8.87E-12	11359	-0.16	3.85E-08	14778	0.10	2.25E-04
854	-0.10	2.58E-05	7863	0.17	1.29E-09	4304	0.20	5.13E-04	11360	0.17	1.66E-08	14780	-0.13	6.53E-04
855	0.10	9.20E-04	7869	-0.27	1.23E-03	4313	0.20	2.89E-10	11362	-0.39	4.08E-07	14781	-0.31	1.39E-06
856	0.10	3.63E-03	7871	0.28	1.63E-22	4315	-0.10	2.12E-06	11363	-0.08	7.27E-03	14783	0.21	5.70E-13
858	-0.10	5.88E-06	7873	0.12	1.98E-05	4321	-0.20	6.51E-04	11374	-0.09	2.26E-03	14790	-0.19	1.61E-03
864	0.20	1.95E-11	7875	-0.10	4.74E-03	4326	-0.10	2.23E-04	11375	-0.10	5.46E-03	14791	0.13	2.79E-05
865	0.20	9.29E-07	7876	-0.18	6.70E-09	4327	0.10	4.63E-03	11382	-0.17	1.50E-08	14797	0.08	2.83E-03
867	-0.10	6.69E-05	7877	-0.11	1.64E-04	4328	0.10	8.87E-03	11384	-0.24	2.67E-15	14801	-0.13	1.37E-05
868	-0.10	4.50E-03	7879	-0.26	9.66E-15	4332	-0.10	2.77E-07	11386	-0.29	2.71E-09	14806	-0.29	1.27E-07
870	0.10	3.52E-06	7885	0.17	2.77E-05	4333	-0.20	7.20E-07	11390	-0.17	6.25E-08	14808	0.08	4.99E-03
871	-0.10	9.72E-03	7888	0.09	2.06E-03	4334	0.20	2.91E-21	11396	0.16	1.18E-07	14817	-0.25	2.38E-09
873	-0.10	9.48E-06	7889	-0.18	7.55E-10	4335	0.10	4.14E-04	11408	-0.22	5.31E-11	14828	0.08	2.66E-03
875	-0.20	4.20E-10	7891	-0.14	1.65E-06	4336	0.10	1.25E-03	11410	-0.13	3.31E-06	14839	-0.19	2.19E-10
879	-0.10	2.13E-03	7894	0.12	1.86E-04	4341	0.10	3.46E-04	11415	-0.32	4.12E-06	14861	0.13	2.61E-03
883	0.10	1.91E-03	7900	-0.31	8.71E-15	4343	0.10	1.55E-03	11425	-0.11	4.38E-04	14866	-0.08	9.42E-03
885	-0.20	2.68E-05	7901	0.13	8.82E-06	4345	0.10	9.75E-05	11431	-0.08	4.84E-03	14872	-0.37	3.48E-06

894	-0.10	2.07E-03	7908	-0.11	4.29E-04	4350	0.10	2.90E-03	11432	-0.07	6.76E-03	14886	0.16	4.87E-10
900	0.10	3.40E-05	7911	-0.35	5.85E-04	4352	0.20	3.02E-09	11435	-0.12	3.64E-03	14899	0.15	1.45E-05
901	-0.10	7.22E-04	7914	0.09	8.99E-04	4354	0.10	9.24E-07	11440	-0.14	9.27E-03	14904	0.17	1.61E-09
906	0.20	2.68E-03	7915	0.12	2.92E-05	4358	0.20	4.51E-05	11444	0.18	1.54E-07	14915	0.19	9.69E-12
912	0.20	4.40E-08	7916	0.12	4.87E-05	4362	-0.20	3.56E-10	11446	0.15	1.94E-06	14925	0.13	6.36E-07
916	0.10	9.29E-03	7927	0.13	1.36E-06	4373	0.10	1.27E-03	11447	-0.16	2.11E-04	14932	-0.13	3.06E-03
919	0.20	1.30E-07	7929	-0.12	2.75E-04	4379	-0.40	3.99E-06	11462	0.15	3.24E-05	14937	0.22	9.77E-19
928	0.20	3.22E-20	7931	-0.12	9.35E-04	4386	-0.20	2.44E-12	11468	-0.24	3.94E-04	14938	0.24	3.77E-06
934	-0.20	3.97E-08	7939	0.21	1.79E-13	4387	-0.10	7.45E-03	11471	0.20	4.37E-13	14940	0.10	1.71E-03
936	-0.10	2.72E-03	7941	0.13	1.49E-04	4395	0.10	2.57E-04	11475	0.10	6.85E-04	14944	-0.28	6.59E-05
937	-0.20	1.14E-04	7942	-0.14	7.76E-07	4396	0.20	1.47E-13	11480	-0.12	2.58E-04	14953	-0.11	8.81E-05
939	0.30	6.13E-19	7946	-0.13	8.60E-03	4398	-0.20	2.11E-07	11485	-0.26	4.02E-08	14966	-0.22	8.83E-14
944	-0.10	5.65E-04	7950	-0.13	2.32E-05	4399	0.20	8.28E-05	11488	0.13	1.18E-03	14971	-0.12	4.90E-03
945	0.20	3.33E-19	7951	0.10	1.33E-03	4400	-0.20	2.53E-06	11489	0.23	1.61E-05	14972	0.15	1.91E-08
949	-0.30	1.03E-18	7952	0.09	9.64E-04	4401	-0.30	9.82E-10	11492	-0.17	2.61E-09	14973	0.18	1.97E-07
951	-0.10	1.25E-03	7954	-0.14	1.50E-03	4405	-0.20	1.23E-05	11496	-0.12	9.30E-05	14974	-0.23	1.38E-09
954	0.20	1.48E-14	7956	-0.10	2.39E-03	4410	-0.10	4.55E-04	11497	0.28	2.46E-20	14975	0.12	7.42E-05
960	-0.10	1.64E-05	7959	-0.09	2.27E-03	4415	-0.20	5.04E-08	11499	0.12	2.64E-05	14989	-0.25	2.71E-05
962	0.20	7.77E-10	7964	0.13	7.59E-07	4417	0.20	6.46E-10	11501	0.08	2.50E-03	14996	-0.09	2.37E-03
963	-0.40	1.78E-13	7965	0.28	3.95E-25	4419	-0.10	9.76E-03	11513	0.11	9.07E-04	14999	-0.32	4.51E-04
964	0.20	1.26E-06	7966	-0.18	2.51E-07	4425	0.10	4.64E-07	11520	-0.15	6.13E-03	15003	-0.15	8.84E-07
972	0.10	4.65E-03	7972	0.12	6.58E-04	4426	-0.20	1.74E-07	11536	-0.12	4.01E-05	15008	-0.22	1.08E-07
975	0.10	2.09E-06	7973	0.11	3.76E-03	4427	-0.20	6.43E-06	11547	0.14	4.76E-07	15012	-0.61	6.30E-08
979	0.20	7.07E-10	7974	0.18	2.54E-05	4430	0.10	3.43E-04	11549	-0.18	1.02E-05	15017	-0.17	8.26E-03
983	-0.20	3.32E-04	7976	-0.08	4.45E-03	4445	0.10	6.26E-05	11551	-0.16	7.37E-08	15018	-0.07	7.40E-03
984	0.20	8.17E-12	7981	0.12	5.25E-04	4446	-0.30	4.34E-13	11553	0.14	1.04E-07	15026	-0.14	7.42E-07
989	0.10	8.68E-04	7982	0.20	1.24E-11	4450	-0.10	6.73E-08	11555	-0.17	8.74E-08	15030	-0.22	5.03E-03
991	-0.10	2.10E-03	7983	0.15	1.88E-06	4451	-0.10	2.54E-03	11556	0.22	8.90E-13	15033	-0.13	8.74E-03
994	-0.10	6.69E-03	7987	-0.22	7.08E-04	4452	-0.10	1.61E-03	11569	0.14	1.52E-06	15042	-0.30	7.43E-10
998	0.10	1.05E-04	7997	0.15	2.45E-05	4454	0.10	5.35E-04	11574	-0.22	1.14E-04	15047	-0.17	1.82E-07
1003	0.10	9.11E-03	8003	-0.09	6.00E-03	4467	0.10	3.08E-03	11582	0.08	1.14E-03	15050	-0.14	1.21E-04
1004	-0.20	5.32E-05	8006	-0.08	9.41E-03	4468	-0.10	3.64E-05	11594	0.16	3.29E-09	15053	-0.13	1.85E-03
1009	-0.20	2.32E-08	8007	-0.39	7.80E-04	4470	0.10	3.73E-06	11600	-0.09	9.99E-04	15060	-0.23	2.20E-13
1012	0.20	1.35E-13	8008	-0.09	6.08E-03	4471	-0.20	2.31E-03	11601	-0.08	4.50E-03	15062	-0.27	6.17E-04
1016	-0.20	1.55E-14	8009	-0.21	6.75E-11	4472	-0.10	2.79E-04	11602	0.14	2.45E-05	15084	-0.32	2.10E-04
1021	0.20	6.54E-07	8012	-0.30	1.12E-08	4473	-0.20	3.17E-04	11603	0.17	1.79E-07	15086	-0.12	5.49E-05
1028	-0.20	1.72E-04	8013	-0.14	4.23E-03	4476	-0.10	9.36E-07	11605	-0.25	3.44E-17	15104	0.14	1.29E-06
1029	-0.20	1.70E-06	8015	0.16	2.92E-04	4478	-0.30	3.80E-15	11613	0.07	7.70E-03	15110	-0.14	6.28E-06
1031	-0.30	1.43E-08	8018	0.16	9.04E-06	4481	0.10	6.09E-04	11618	0.21	3.62E-13	15113	-0.18	7.58E-05
1032	0.10	6.62E-05	8022	-0.14	1.63E-03	4482	-0.10	4.99E-04	11619	0.08	6.59E-03	15115	-0.16	1.44E-06

318														
1035	-0.20	3.37E-06	8024	-0.23	1.54E-13	4485	-0.20	4.17E-13	11622	0.08	3.19E-03	15128	0.16	1.40E-08
1037	-0.20	9.23E-08	8025	-0.29	3.20E-08	4486	0.10	1.99E-03	11628	-0.16	2.34E-08	15131	-0.14	7.19E-07
1039	-0.10	4.01E-03	8026	0.11	3.71E-03	4487	0.20	5.13E-20	11631	0.11	5.11E-05	15133	-0.22	3.24E-03
1049	-0.10	1.99E-05	8028	-0.20	1.13E-06	4493	-0.20	1.33E-06	11636	0.12	4.04E-05	15149	0.22	1.03E-05
1050	-0.10	4.78E-03	8031	0.15	8.09E-05	4501	0.10	3.35E-05	11639	-0.19	1.14E-07	6439	0.10	2.92E-05
1052	-0.10	4.52E-04	8032	-0.15	3.01E-07	4502	0.10	1.12E-03	11641	0.15	1.23E-05	6440	0.20	1.09E-10
1056	0.20	1.67E-09	8035	0.07	9.46E-03	4505	0.10	5.93E-05	11647	-0.40	5.48E-09	6441	0.20	2.01E-04
1062	-0.10	1.74E-03	8037	-0.33	2.29E-12	4507	-0.10	2.91E-03	11649	-0.17	5.90E-09	6443	-0.10	6.29E-03
1063	0.10	7.08E-06	8038	0.17	2.11E-03	4508	0.10	3.38E-03	11652	-0.31	4.04E-09	6447	0.10	3.89E-03
1065	-0.10	2.56E-04	8040	0.20	1.40E-09	4515	0.10	8.99E-05	11656	-0.16	1.01E-03	6454	-0.10	1.24E-03
1068	-0.10	1.51E-03	8044	0.12	1.28E-09	4517	0.10	5.03E-06	11659	-0.15	1.19E-07	6455	0.10	4.13E-04
1069	-0.10	7.38E-04	8046	0.13	2.27E-05	4522	-0.10	2.81E-03	11680	-0.15	3.76E-08	6459	0.10	4.29E-05
1072	0.10	1.36E-05	8048	-0.14	6.33E-05	4523	0.10	1.74E-07	11684	0.19	5.65E-09	6461	-0.20	4.90E-06
1074	0.10	3.53E-03	8052	0.10	2.49E-04	4525	-0.20	1.81E-06	11685	-0.12	2.29E-04	6463	-0.10	7.70E-04
1075	-0.20	1.63E-03	8055	0.19	7.22E-10	4528	-0.20	7.40E-07	11692	-0.42	3.75E-09	6464	-0.10	1.23E-04
1084	0.20	1.36E-07	8062	-0.22	9.52E-10	4529	-0.30	1.83E-03	11701	-0.21	9.76E-10	6468	-0.30	2.22E-08
1089	-0.10	1.08E-04	8063	-0.22	8.95E-10	4530	0.10	8.83E-04	11704	0.12	1.49E-03	6474	0.10	1.03E-03
1094	0.20	1.15E-13	8070	0.10	4.53E-04	4536	0.20	4.51E-11	11714	-0.12	1.06E-04	6477	0.10	1.96E-03
1097	-0.20	4.58E-15	8075	-0.18	1.84E-11	4537	-0.20	3.40E-05	11717	-0.11	4.44E-05	6478	0.20	3.05E-08
1098	-0.10	1.07E-05	8083	-0.11	8.32E-05	4541	-0.10	1.55E-03	11719	-0.22	3.40E-09	6485	-0.20	6.01E-06
1099	-0.10	5.67E-03	8085	-0.18	1.08E-07	4542	0.30	2.76E-30	11722	-0.15	1.70E-07	6487	0.20	1.48E-08
1100	-0.20	5.56E-09	8086	0.09	1.39E-03	4543	0.20	5.03E-06	11724	-0.08	8.94E-03	6493	-0.40	6.42E-07
1105	-0.10	5.83E-06	8087	-0.17	4.34E-08	4544	-0.10	1.05E-03	11726	0.15	5.26E-08	6498	-0.10	4.44E-08
1107	0.20	9.90E-03	8088	0.10	3.16E-03	4549	0.10	3.33E-04	11728	-0.24	3.04E-07	6502	-0.20	4.47E-04
1108	-0.10	1.04E-03	8089	0.25	1.36E-10	4551	-0.20	5.87E-06	11735	-0.13	5.36E-03	6505	-0.20	1.74E-07
1109	0.10	3.51E-03	8090	0.19	2.09E-08	4554	0.10	6.72E-03	11742	0.13	1.23E-03	6515	0.20	2.57E-06
1110	-0.20	4.55E-15	8094	0.30	8.35E-25	4558	0.20	2.87E-09	11749	0.11	9.30E-03	6520	0.10	4.13E-05
1113	-0.10	7.66E-05	8100	0.09	5.30E-03	4559	0.20	3.09E-09	11754	-0.18	5.62E-08	6521	-0.10	2.64E-03
1114	-0.20	1.20E-05	8102	-0.14	3.61E-07	4560	-0.10	6.42E-04	11756	0.20	3.97E-13	6522	0.10	3.45E-03
1115	-0.20	2.79E-05	8105	0.22	3.03E-12	4565	0.10	4.94E-03	11757	-0.19	8.00E-08	6523	-0.20	2.05E-14
1128	-0.10	2.06E-04	8107	0.22	1.95E-06	4567	-0.20	2.29E-06	11758	-0.20	3.31E-05	6530	-0.10	2.05E-03
1129	-0.10	1.43E-04	8110	-0.20	1.71E-05	4576	0.10	2.36E-05	11769	-0.08	6.02E-03	6531	0.30	3.84E-10
1140	0.20	2.69E-12	8111	-0.32	2.97E-27	4578	0.20	1.66E-09	11771	0.12	2.56E-05	6532	-0.20	4.83E-06
1141	0.20	4.92E-10	8117	0.14	1.06E-06	4580	-0.20	3.09E-05	11788	-0.17	9.59E-04	6540	-0.20	3.68E-11
1142	-0.10	9.04E-05	8119	-0.20	8.48E-14	4581	0.20	5.30E-18	11796	0.11	1.05E-03	6544	0.10	2.63E-08
1147	0.10	9.42E-03	8127	0.20	1.47E-13	4582	0.20	5.69E-12	11803	-0.17	3.64E-06	6545	0.10	5.68E-06
1151	0.10	1.22E-03	8132	-0.12	1.13E-04	4583	0.30	4.24E-20	11809	-0.10	1.62E-03	6548	-0.10	1.51E-04
1152	0.20	1.90E-08	8133	-0.09	2.99E-03	4584	0.20	2.26E-10	11818	-0.27	2.50E-08	6549	-0.10	2.84E-03
1154	-0.20	1.08E-04	8134	0.18	7.93E-08	4586	-0.10	6.24E-03	11825	0.17	3.48E-09	6550	-0.10	3.71E-07

1160	0.10	9.57E-03	8142	-0.13	4.83E-05	4589	0.10	2.02E-05	11833	-0.16	6.54E-04	6551	-0.30	1.37E-06
1161	0.10	4.09E-03	8143	-0.12	5.61E-05	4602	0.30	7.04E-36	11847	0.12	4.46E-05	6555	0.20	5.33E-08
1163	0.20	1.02E-06	8146	0.15	3.73E-08	4606	-0.10	6.22E-05	11856	0.11	1.23E-04	6557	0.10	7.17E-04
1164	0.10	3.43E-05	8147	0.14	2.57E-07	4607	-0.10	4.01E-05	11862	0.11	4.43E-03	6561	-0.20	2.81E-04
1165	0.20	4.36E-07	8149	0.16	1.32E-09	4608	-0.20	3.39E-14	11866	-0.15	7.33E-07	6564	0.20	4.79E-07
1170	-0.10	1.74E-09	8150	0.31	5.78E-17	4615	-0.20	1.24E-04	11874	0.16	1.17E-03	6565	0.10	9.50E-07
1171	0.20	9.08E-10	8159	-0.11	1.52E-04	4616	-0.10	1.01E-05	11875	-0.17	2.50E-03	6566	-0.20	1.00E-03
1172	-0.10	8.70E-03	8161	0.17	2.86E-10	4619	-0.30	2.06E-19	11879	-0.09	2.05E-03	6568	-0.20	2.51E-10
1174	-0.10	1.99E-03	8163	-0.15	3.46E-08	4620	0.10	1.03E-04	11887	-0.09	3.52E-03	6570	-0.10	4.26E-03
1185	0.20	6.28E-11	8166	0.21	5.23E-13	4622	-0.20	4.43E-12	11888	-0.30	7.59E-08	6571	-0.30	1.36E-06
1186	0.10	8.96E-04	8168	-0.13	9.76E-06	4623	-0.10	1.04E-03	11890	-0.19	3.14E-13	6572	-0.10	5.30E-05
1187	0.20	2.15E-10	8169	-0.07	2.28E-03	4626	-0.10	1.25E-03	11895	0.13	1.08E-03	6576	0.10	1.36E-03
1188	0.20	5.75E-10	8172	0.10	3.38E-03	4627	-0.10	3.88E-03	11896	-0.11	2.25E-04	6577	0.10	1.68E-03
1193	0.10	4.98E-04	8174	0.15	1.26E-03	4629	0.20	4.24E-10	11897	0.11	9.39E-05	6580	-0.10	2.56E-04
1194	0.20	6.74E-08	8176	-0.13	6.24E-04	4634	-0.30	1.70E-15	11898	-0.22	3.61E-12	6582	0.20	1.26E-13
1195	0.10	8.49E-08	8183	-0.09	6.92E-03	4647	0.20	9.26E-07	11899	-0.09	6.97E-03	6583	-0.10	1.30E-06
1199	-0.20	3.83E-03	8188	0.11	4.06E-05	4651	0.30	9.18E-20	11900	-0.33	1.45E-15	6585	-0.10	1.05E-03
1201	-0.10	9.58E-03	8189	-0.14	7.37E-06	4654	-0.30	2.25E-17	11901	0.08	3.71E-03	6587	0.10	2.59E-06
1213	0.20	3.12E-10	8190	-0.20	2.44E-04	4662	-0.10	2.26E-05	11902	-0.25	9.70E-05	6591	0.10	3.02E-03
1214	0.10	9.49E-03	8192	0.29	1.15E-21	4664	0.20	1.74E-09	11903	0.14	1.18E-04	6596	-0.10	6.53E-05
1217	0.30	3.13E-07	8193	0.09	2.54E-03	4669	-0.10	5.42E-05	11908	0.13	3.00E-06	6600	0.20	6.62E-10
1218	-0.10	2.90E-03	8194	-0.23	9.30E-08	4670	-0.20	4.31E-05	11915	-0.12	2.93E-05	6601	-0.10	8.84E-04
1229	-0.10	1.74E-05	8196	-0.11	4.17E-04	4671	-0.20	3.55E-09	11918	0.07	8.61E-03	6603	-0.10	1.60E-03
1230	0.20	1.29E-04	8203	-0.17	1.43E-03	4675	0.10	4.01E-06	11929	0.10	1.20E-05	6606	0.20	2.57E-04
319														
1237	-0.10	6.60E-04	8210	0.13	8.40E-03	4677	-0.10	2.50E-03	11932	-0.15	5.84E-04	6615	0.10	6.42E-07
1238	0.10	2.46E-03	8212	-0.15	2.21E-04	4678	0.30	3.14E-14	11939	-0.15	9.05E-05	6617	0.20	4.30E-06
1239	-0.20	1.23E-07	8213	0.11	1.83E-04	4679	-0.30	6.48E-22	11940	-0.15	1.74E-06	6619	-0.10	6.77E-06
1241	0.20	2.09E-06	8219	0.12	2.52E-03	4683	-0.10	4.46E-03	11943	0.18	1.42E-04	6621	-0.20	3.60E-07
1242	0.10	3.38E-03	8220	-0.22	2.68E-06	4687	0.10	2.66E-04	11947	-0.13	4.92E-06	6626	-0.20	2.23E-08
1243	0.10	6.23E-05	8224	-0.14	5.80E-04	4688	0.10	2.79E-03	11959	0.14	3.71E-05	9927	0.23	8.08E-13
1244	0.20	3.33E-14	8228	0.14	9.25E-07	4689	-0.10	9.33E-05	11961	-0.21	8.59E-13	9928	0.19	1.49E-06
1251	0.20	6.91E-08	8233	-0.25	2.37E-18	4690	-0.30	9.38E-13	11963	0.10	1.27E-04	9932	-0.16	6.55E-05
1252	-0.10	9.54E-05	8235	-0.14	8.93E-07	4691	-0.20	7.36E-08	11966	0.10	7.75E-03	9936	0.09	1.18E-04
1254	-0.30	2.25E-11	8237	0.12	5.22E-04	4696	-0.20	2.69E-12	11972	-0.25	5.00E-04	9945	-0.13	5.17E-06
1256	0.20	1.28E-14	8238	0.12	4.20E-04	4702	0.10	1.01E-03	11976	-0.17	1.00E-04	9946	0.25	2.87E-18
1264	0.10	6.27E-05	8239	0.17	1.51E-08	4708	-0.20	3.19E-06	11977	-0.14	2.55E-07	9951	-0.11	3.94E-03
1265	0.20	1.17E-08	8240	-0.23	1.45E-13	4716	0.10	7.45E-03	11982	-0.20	2.79E-03	9952	0.10	1.21E-03
1266	-0.10	3.58E-04	8241	-0.09	1.83E-03	4723	-0.10	2.62E-03	11999	0.09	3.52E-03	9956	0.18	4.74E-06
1267	0.10	6.69E-04	8243	-0.13	5.84E-04	4728	0.10	1.75E-06	12000	-0.24	2.03E-16	9957	-0.20	1.86E-08

1268	-0.10	2.03E-03	8244	-0.21	4.61E-12	4731	-0.20	3.06E-03	12010	0.13	9.95E-05	9959	0.25	3.55E-20
1274	0.20	4.30E-07	8245	0.13	3.66E-04	4732	0.10	1.71E-03	12012	-0.16	9.01E-04	9961	0.18	1.55E-11
1276	-0.20	5.27E-06	8246	-0.27	3.88E-05	4746	0.10	5.64E-06	12019	-0.09	2.95E-03	9964	0.17	9.95E-07
1278	-0.10	2.81E-05	8250	0.27	8.35E-07	4752	-0.10	1.43E-03	12022	-0.31	1.00E-09	9975	-0.11	1.23E-06
1281	0.10	2.75E-06	8255	-0.10	1.22E-03	4753	-0.10	9.32E-04	12032	0.23	5.14E-17	9982	-0.16	5.87E-08
1283	0.20	5.62E-06	8259	0.08	6.53E-05	4756	0.10	1.63E-08	12036	0.09	1.93E-03	9984	0.08	3.10E-03
1287	-0.20	2.92E-11	8260	0.12	1.05E-05	4757	-0.10	1.26E-03	12043	-0.12	2.12E-04	9987	-0.12	4.80E-05
1291	0.20	1.55E-14	8261	0.21	1.86E-12	4758	-0.20	2.67E-09	12045	-0.24	8.21E-05	9993	-0.11	1.42E-07
1294	0.10	3.63E-05	8264	-0.17	1.26E-04	4760	-0.30	2.30E-16	12056	0.08	2.49E-03	9994	0.11	4.02E-05
1299	-0.30	1.24E-10	8267	-0.16	6.18E-03	4761	-0.30	1.79E-16	12060	0.13	3.17E-04	9995	0.30	2.20E-28
1303	0.10	1.19E-03	8274	0.09	1.09E-03	4762	0.10	8.32E-07	12063	0.12	1.10E-04	9996	-0.07	9.94E-03
1305	0.20	1.86E-13	8276	-0.21	1.17E-13	4763	-0.10	5.14E-03	12065	-0.16	9.29E-04	9998	0.07	8.19E-03
1309	0.10	1.62E-03	8281	-0.12	5.60E-03	4764	0.10	1.06E-03	12067	-0.26	1.78E-08	10002	-0.10	4.81E-03
1310	-0.20	8.67E-03	8285	0.09	1.14E-03	4765	-0.10	4.11E-04	12071	0.14	3.16E-03	10003	-0.15	2.03E-07
1319	0.10	1.03E-05	8286	0.23	6.55E-04	4771	-0.30	6.33E-09	12073	-0.30	4.38E-13	10006	-0.08	3.98E-03
1320	-0.10	1.57E-05	8287	-0.21	6.19E-13	4774	0.10	1.66E-05	12076	0.14	1.08E-07	10011	-0.17	2.29E-08
1327	-0.10	7.21E-06	8289	-0.27	1.53E-19	4780	0.20	4.94E-12	12081	-0.16	3.20E-08	10015	-0.12	2.84E-06
1329	-0.10	8.08E-04	8290	-0.19	2.07E-03	4781	0.20	3.91E-07	12090	0.16	3.12E-08	10019	0.11	1.82E-04
1332	0.20	6.32E-08	8300	-0.20	8.20E-09	4786	-0.20	9.15E-06	12091	0.16	2.79E-04	10021	-0.09	4.25E-03
1333	0.20	1.04E-05	8307	-0.12	7.86E-03	4788	0.10	7.78E-03	12095	-0.16	1.19E-06	10026	-0.16	1.50E-07
1339	-0.20	5.00E-10	8308	0.14	4.16E-03	4789	-0.20	9.49E-07	12110	-0.16	8.17E-03	10031	-0.16	1.63E-03
1346	-0.20	2.86E-07	8312	0.13	7.82E-06	4796	-0.10	1.17E-04	12118	-0.18	6.80E-04	10033	0.07	4.69E-03
1348	-0.10	9.35E-03	8315	-0.08	7.02E-03	4800	-0.30	5.43E-09	12126	0.12	4.30E-06	10035	0.18	9.83E-11
1351	-0.10	4.78E-05	8318	-0.13	2.46E-06	4801	-0.10	2.08E-05	12130	-0.35	4.69E-04	10036	-0.15	3.10E-06
1354	-0.20	1.94E-08	8321	-0.25	3.10E-07	4803	0.10	8.27E-03	12131	-0.19	8.97E-04	10039	-0.16	2.62E-07
1355	0.10	2.23E-03	8323	-0.12	1.57E-03	4807	0.20	8.06E-17	12132	0.12	5.77E-06	10041	0.17	8.95E-05
1356	0.10	1.53E-03	8324	0.09	9.75E-04	4808	-0.20	3.19E-08	12141	-0.08	4.43E-05	10043	-0.35	3.70E-05
1357	0.20	1.83E-06	8332	-0.20	1.28E-07	4813	-0.10	7.73E-04	12147	0.14	3.11E-05	10044	0.08	6.97E-03
1360	0.10	1.33E-04	8333	0.17	1.80E-09	4816	-0.20	5.03E-04	12153	-0.13	2.99E-04	10046	-0.10	1.07E-03
1364	0.20	1.29E-18	8334	-0.13	3.85E-04	4821	-0.20	5.89E-06	12154	-0.09	6.83E-04	10047	0.09	1.45E-03
1366	0.10	7.48E-05	8336	-0.15	4.31E-05	4827	0.20	3.32E-10	12162	-0.21	7.28E-15	10048	-0.09	7.89E-03
1370	-0.50	2.64E-13	8338	-0.10	2.37E-04	4831	-0.10	4.68E-03	12166	-0.25	3.18E-09	10053	-0.21	1.76E-05
1373	0.20	2.42E-06	8340	-0.27	2.03E-07	4832	0.10	2.86E-03	12168	0.12	6.55E-05	10056	0.15	1.42E-05
1375	-0.10	6.04E-05	8341	0.09	1.88E-03	4834	-0.40	1.17E-07	12170	-0.16	4.80E-06	10061	0.17	2.73E-04
1380	-0.50	3.34E-16	8343	0.16	4.44E-07	4835	0.10	4.26E-04	12174	-0.22	1.88E-15	10062	-0.25	8.49E-18
1384	-0.20	6.28E-06	8346	-0.18	7.54E-03	4846	-0.10	8.76E-04	12175	0.11	5.92E-05	10064	-0.24	6.74E-03
1385	-0.30	8.95E-18	8348	0.12	5.28E-04	4847	0.10	2.86E-03	12177	0.13	4.44E-04	10066	-0.14	4.62E-07
1389	0.20	1.78E-07	8351	0.14	3.90E-08	4848	-0.10	5.97E-03	12181	0.22	2.18E-03	10067	0.08	3.02E-05
1390	-0.30	1.90E-06	8352	-0.17	3.54E-09	4849	-0.20	6.63E-07	12186	0.16	1.44E-08	10069	-0.09	8.79E-04
1392	-0.20	4.34E-05	8353	-0.24	1.70E-19	4854	-0.10	1.53E-05	12187	-0.11	1.63E-04	10074	-0.12	4.42E-03

1393	-0.20	1.58E-13	8358	-0.21	1.68E-09	4858	-0.10	9.87E-05	12190	-0.15	2.19E-06	10077	-0.15	2.72E-12
1395	0.10	2.66E-03	8360	0.12	3.38E-04	4859	-0.10	7.42E-04	12193	-0.12	4.21E-05	10079	0.16	3.87E-06
1396	-0.20	2.81E-07	8361	0.16	8.43E-10	4863	-0.10	2.71E-06	12200	0.14	7.90E-07	10080	-0.17	1.00E-06
1397	0.10	8.95E-03	8363	-0.12	3.71E-03	4864	-0.20	5.36E-11	12208	0.13	1.10E-06	10082	-0.15	1.26E-06
1401	-0.20	2.02E-15	8365	-0.14	4.31E-05	4870	-0.10	3.00E-03	12214	0.18	7.49E-07	10084	0.25	8.72E-12
1406	-0.20	1.47E-12	8366	-0.14	3.97E-05	4871	-0.10	7.94E-03	12215	-0.24	1.94E-06	10087	-0.12	4.05E-05
1409	0.10	2.55E-08	8367	-0.09	1.07E-04	4873	0.10	6.04E-05	12219	-0.11	1.33E-04	10092	-0.32	3.28E-27
1410	-0.20	1.07E-14	8377	0.15	3.44E-07	4877	0.10	4.26E-04	12226	-0.15	8.14E-05	10095	0.11	4.95E-07
320														
1411	0.20	8.05E-09	8383	0.17	1.30E-09	4879	-0.10	1.05E-05	12228	-0.42	3.95E-09	10096	0.08	5.48E-03
1421	0.10	1.14E-06	8384	-0.29	2.43E-05	4880	-0.30	1.61E-03	12230	0.23	5.31E-09	10102	0.17	9.59E-07
1429	-0.10	8.19E-05	8387	0.14	5.23E-06	4885	0.10	1.37E-05	12232	0.22	7.75E-16	10103	-0.14	3.00E-06
1430	-0.10	4.02E-03	8391	-0.24	2.28E-17	4887	-0.10	1.54E-03	12235	-0.16	3.69E-04	10104	-0.10	6.94E-04
1431	0.20	2.86E-10	8395	-0.18	1.47E-10	4890	-0.30	8.04E-07	12240	0.17	4.24E-09	10107	-0.13	7.22E-05
1434	0.10	4.88E-06	8397	0.17	5.70E-09	4893	0.20	2.52E-10	12241	-0.42	4.14E-14	10110	0.08	3.73E-03
1436	-0.20	5.79E-06	8398	0.13	7.55E-06	4894	-0.20	1.05E-10	12242	-0.12	1.65E-05	3102	0.20	4.77E-04
1439	0.20	2.79E-10	8402	-0.20	1.01E-06	4896	0.10	4.39E-04	12253	-0.13	7.13E-06	3103	-0.10	1.14E-03
1443	0.10	9.09E-08	8403	0.10	4.36E-04	4898	0.20	1.57E-13	12262	-0.10	7.49E-04	3104	-0.10	2.42E-04
1444	0.10	4.47E-08	8405	0.12	7.77E-06	4905	-0.30	3.37E-09	12275	0.14	7.69E-07	3112	0.10	8.34E-03
1448	-0.10	1.01E-03	8411	-0.12	4.65E-05	4907	0.20	1.23E-03	12281	-0.22	8.97E-03	3114	0.10	2.82E-03
1450	-0.10	9.93E-06	8412	-0.12	4.96E-05	4909	-0.10	8.76E-03	12284	0.16	1.43E-08	3115	-0.10	7.34E-03
1451	0.20	1.14E-06	8413	0.13	1.25E-06	4911	0.20	2.03E-09	12286	0.14	1.21E-04	3116	0.10	6.36E-03
1455	0.20	1.48E-05	8417	0.10	6.50E-04	4916	-0.10	1.39E-03	12288	0.15	1.24E-06	3117	0.20	3.64E-03
1456	-0.10	1.43E-04	8420	0.15	8.40E-08	4917	0.10	1.14E-05	12291	0.28	3.39E-27	3118	-0.20	5.94E-08
1464	0.20	6.87E-20	8421	-0.34	1.31E-24	4920	0.10	5.12E-03	12292	0.16	2.03E-08	3122	0.10	2.32E-04
1467	0.10	5.69E-07	8423	-0.23	2.03E-12	4934	0.10	2.48E-05	12293	-0.33	3.58E-12	3124	-0.20	2.94E-19
1472	-0.10	3.02E-04	8425	-0.13	1.59E-05	4936	-0.20	4.95E-06	12297	0.11	5.40E-04	3125	-0.10	2.74E-07
1475	-0.20	3.15E-08	8427	0.09	4.96E-03	4937	0.10	5.44E-07	12304	-0.10	6.41E-04	3129	0.20	4.00E-09
1478	0.20	1.64E-11	8429	0.08	7.14E-03	4938	0.10	1.11E-06	12307	0.12	1.51E-03	3131	0.10	1.82E-03
1489	0.10	4.26E-03	8433	-0.21	8.05E-10	4951	0.10	2.26E-07	12308	0.12	1.49E-04	3142	0.10	6.51E-08
1491	0.20	7.59E-16	8434	-0.32	1.05E-04	4953	0.10	2.60E-05	12310	0.24	3.90E-08	3143	-0.10	4.83E-04
1494	0.10	7.29E-03	8446	-0.16	4.69E-08	4958	0.10	8.92E-03	12316	-0.23	7.13E-04	3144	-0.20	7.07E-12
1498	-0.30	3.11E-29	8451	-0.26	1.46E-14	4961	0.10	9.52E-03	12317	0.12	2.54E-05	3145	-0.20	6.40E-12
1505	0.10	6.16E-06	8454	-0.29	3.19E-20	4966	0.10	2.39E-04	12322	0.19	2.25E-15	3146	0.10	8.91E-04
1506	-0.20	2.05E-06	8455	0.10	4.89E-04	4970	-0.20	1.38E-06	12329	0.11	2.23E-03	3149	0.10	3.26E-03
1507	0.30	6.69E-09	8457	0.12	1.73E-03	4973	0.10	8.54E-08	12330	0.13	3.34E-05	3152	0.10	5.71E-06
1524	0.10	7.43E-05	8460	-0.17	1.39E-06	4974	0.10	3.63E-05	12334	-0.08	6.40E-03	3153	-0.20	3.81E-07
1526	-0.10	3.04E-06	8463	-0.16	9.86E-03	4976	-0.20	1.20E-04	12336	0.19	1.11E-12	3158	-0.10	9.70E-04
1527	-0.10	2.23E-03	8464	0.14	4.42E-07	4978	-0.30	6.37E-04	12343	-0.25	3.59E-05	3165	-0.30	5.11E-16
1529	-0.10	3.53E-03	8466	0.23	8.29E-17	4986	-0.20	2.75E-05	12344	0.21	2.23E-13	3166	-0.10	6.85E-04

1530	-0.20	9.75E-12	8467	0.20	2.18E-13	4987	-0.40	1.83E-04	12356	-0.29	2.30E-14	3167	-0.10	3.99E-04
1532	-0.10	6.82E-04	8484	-0.28	1.80E-10	4991	-0.10	2.20E-06	12358	-0.25	1.26E-18	3168	0.10	1.61E-06
1533	0.20	2.37E-19	8485	0.14	5.22E-06	4996	-0.30	8.95E-10	12368	0.14	1.17E-07	3170	0.10	4.43E-05
1544	0.20	8.86E-05	8488	0.13	1.04E-08	4999	0.10	7.40E-04	12376	0.17	1.90E-08	3177	-0.20	2.74E-06
1545	0.20	1.09E-06	8489	-0.18	1.43E-06	5003	-0.30	2.22E-06	12378	-0.25	7.04E-03	3178	-0.10	8.00E-04
1548	-0.10	3.52E-04	8490	-0.25	4.40E-04	5004	-0.10	6.47E-03	12381	-0.16	7.96E-05	3180	-0.10	3.62E-05
1552	0.10	3.13E-04	8501	0.17	1.34E-05	5005	-0.10	6.53E-03	12393	0.20	1.68E-14	3183	-0.20	2.79E-13
1558	0.10	5.52E-04	8508	-0.16	1.61E-08	5010	-0.20	3.09E-06	12409	0.21	2.76E-14	3184	0.20	1.09E-17
1560	0.20	1.06E-10	8515	0.11	3.93E-05	5013	0.10	5.74E-05	12411	0.21	5.00E-07	3188	-0.20	1.67E-07
1571	-0.10	8.47E-05	8517	0.12	3.99E-04	5016	-0.10	4.67E-09	12412	-0.15	1.60E-07	3189	-0.30	7.95E-20
1573	0.20	1.94E-09	8520	-0.16	5.93E-03	5025	0.20	4.97E-14	12415	0.16	6.60E-03	3190	0.30	6.30E-14
1575	-0.10	5.24E-05	8521	0.15	7.82E-08	5028	-0.10	6.43E-04	12423	-0.11	8.50E-04	3191	-0.20	5.39E-07
1577	0.10	2.91E-05	8522	0.10	4.87E-04	5030	-0.10	3.06E-03	12433	0.11	6.36E-05	3192	-0.20	1.21E-06
1580	0.10	7.29E-03	8523	0.10	7.83E-04	5034	0.10	6.50E-03	12443	0.09	2.45E-03	3206	0.30	1.93E-05
1581	0.20	2.46E-09	8524	0.10	9.72E-04	5035	-0.10	5.48E-03	12444	-0.19	3.73E-04	3210	0.10	2.33E-03
1583	-0.20	2.24E-04	8529	-0.16	3.28E-03	5036	0.20	4.73E-08	12456	0.08	4.49E-03	3213	-0.20	1.30E-03
1585	-0.10	1.49E-03	8532	-0.13	2.84E-04	5037	-0.10	6.13E-08	12458	0.20	3.55E-13	3217	-0.10	2.59E-03
1587	-0.40	1.47E-06	8537	-0.08	2.91E-03	5038	-0.20	7.67E-03	12462	0.18	1.14E-11	3218	-0.20	7.10E-12
1588	-0.10	5.55E-06	8539	0.08	9.27E-03	5042	0.10	2.55E-04	12463	-0.07	7.72E-03	3220	0.20	4.67E-07
1591	-0.20	1.91E-06	8540	0.13	1.16E-05	5043	0.10	2.68E-04	12465	-0.29	1.30E-09	3222	0.10	1.84E-05
1597	-0.10	3.84E-04	8541	0.20	2.15E-06	5046	-0.10	1.23E-04	12466	-0.18	4.54E-07	3227	-0.10	2.70E-03
1599	0.30	7.25E-30	8544	-0.14	2.07E-05	5047	0.20	1.05E-04	12469	-0.21	7.61E-08	3235	-0.10	3.41E-03
1601	-0.20	8.28E-07	8547	-0.27	1.53E-06	5057	-0.20	9.39E-09	12477	-0.18	1.09E-05	3239	-0.10	3.91E-03
1604	-0.20	4.81E-05	8548	-0.25	1.20E-04	5060	0.20	1.21E-07	12482	-0.22	5.82E-08	3240	-0.10	3.89E-03
1612	0.20	2.02E-08	8550	-0.12	9.37E-05	5061	-0.30	4.21E-08	12483	0.08	5.31E-03	3241	-0.20	2.57E-06
1614	0.20	4.30E-12	8553	-0.24	9.58E-03	5063	-0.30	1.74E-08	12486	0.15	5.54E-03	3245	0.20	4.53E-08
1615	-0.30	9.60E-07	8557	-0.30	2.29E-07	5069	0.20	1.26E-14	12489	-0.24	9.91E-08	3248	-0.20	3.66E-04
1616	0.20	4.64E-09	8559	0.19	2.24E-12	5070	0.20	7.09E-13	12491	0.20	1.58E-13	3257	0.10	7.38E-03
1617	-0.10	2.50E-06	8560	0.18	6.83E-10	5071	0.10	1.72E-04	12496	0.08	9.02E-03	3258	0.10	1.48E-06
1618	0.10	2.07E-05	8561	0.13	2.82E-04	5074	-0.20	3.89E-03	12498	0.21	4.11E-14	3260	0.10	1.14E-04
1620	-0.30	1.24E-20	8563	0.19	1.12E-07	5078	-0.10	2.01E-09	12500	-0.19	4.76E-05	3263	0.10	5.41E-04
1622	0.10	2.86E-05	8569	-0.12	9.77E-03	5079	0.20	5.33E-15	12503	0.09	1.35E-03	3266	0.10	1.47E-06
321														
1623	0.20	2.50E-11	8576	-0.27	2.68E-15	5083	0.10	2.66E-06	12509	-0.31	1.96E-12	3272	0.20	1.54E-07
1625	0.20	4.31E-09	8577	0.14	3.18E-07	5086	0.30	4.36E-22	12510	-0.17	2.52E-06	3281	-0.20	1.14E-05
1630	-0.10	1.36E-03	8578	0.19	8.80E-06	5088	0.10	6.98E-08	12518	0.15	2.34E-08	3286	0.20	5.35E-10
1634	0.10	9.62E-05	8580	-0.21	1.88E-07	5093	-0.20	1.84E-07	12519	-0.08	9.19E-03	3302	0.20	5.92E-08
1635	-0.10	3.48E-03	8585	0.17	2.55E-04	5094	0.20	3.09E-07	12521	0.23	4.91E-17	3303	0.20	7.40E-08
1636	-0.30	2.57E-05	8589	-0.21	5.08E-08	5095	-0.10	2.95E-04	12522	-0.12	3.66E-05	3310	0.10	1.03E-05
1637	0.10	1.77E-06	8591	-0.09	7.83E-03	5097	0.20	1.34E-05	12524	0.19	2.26E-12	3312	-0.30	3.44E-19

1640	-0.20	3.73E-07	8592	-0.13	1.98E-03	5098	0.20	2.36E-08	12529	0.19	5.83E-12	13740	0.10	1.35E-03
1642	0.10	2.14E-06	8593	-0.23	2.47E-13	5102	-0.30	6.75E-04	12536	-0.16	3.38E-07	13743	-0.14	6.80E-03
1643	0.10	1.28E-03	8596	-0.19	3.59E-07	5114	0.10	3.96E-04	12542	-0.10	1.08E-03	13763	-0.17	5.03E-03
1644	-0.30	1.97E-12	8598	-0.13	4.61E-05	5115	-0.10	9.43E-03	12544	0.22	1.02E-10	13767	-0.11	1.42E-04
1652	0.10	2.50E-06	8599	-0.09	4.43E-03	5116	-0.10	7.35E-04	12545	-0.30	7.63E-05	13769	-0.24	4.37E-04
1653	0.30	8.23E-25	8600	0.11	2.12E-04	5121	0.10	7.10E-03	12546	0.19	9.97E-13	13772	0.14	2.86E-07
1659	0.20	3.74E-03	8601	-0.09	5.09E-03	5124	-0.20	2.03E-10	12547	-0.17	4.23E-08	13783	-0.12	3.38E-05
1662	-0.10	2.23E-03	8603	0.12	6.80E-03	5125	0.10	2.21E-06	12549	0.14	7.05E-05	13786	0.17	2.19E-03
1663	-0.20	2.02E-05	8607	-0.07	9.43E-03	5132	0.10	1.93E-06	12561	-0.21	5.60E-03	13787	0.10	6.20E-03
1664	-0.10	1.68E-03	8611	-0.15	1.16E-08	5133	-0.20	1.94E-05	12565	0.16	1.08E-04	13791	0.15	2.23E-08
1665	-0.10	2.68E-03	8613	-0.15	4.23E-06	5134	-0.30	7.86E-29	12577	-0.19	1.67E-10	13793	-0.16	3.73E-06
1668	0.10	7.69E-03	8614	-0.17	3.40E-07	5138	-0.10	1.63E-03	12583	-0.14	1.12E-03	13795	0.22	3.02E-15
1676	-0.10	5.70E-03	8616	-0.09	4.45E-03	5145	-0.10	2.79E-06	12584	-0.25	7.52E-11	13805	0.08	4.64E-03
1677	0.20	1.87E-13	8617	0.21	5.78E-08	5148	-0.10	7.14E-06	12590	-0.29	1.29E-09	13811	-0.19	4.89E-03
1681	0.30	3.55E-17	8624	0.09	2.34E-03	5149	-0.10	2.09E-06	12591	-0.17	1.31E-07	13812	-0.13	1.03E-05
1684	0.10	1.32E-04	8627	-0.14	9.61E-05	5152	0.10	1.38E-03	12592	0.15	1.67E-06	13813	-0.13	1.25E-05
1686	0.20	5.57E-11	8630	0.12	3.06E-03	5155	-0.20	9.24E-03	12597	-0.19	9.77E-10	13814	-0.24	2.27E-07
1696	-0.30	5.40E-05	8632	-0.11	2.56E-03	5164	-0.10	5.73E-03	12598	-0.24	5.07E-11	13816	0.16	3.91E-04
1705	-0.20	2.35E-03	8642	-0.16	4.53E-03	5165	0.10	1.97E-05	12599	0.07	8.25E-03	13827	0.08	3.83E-03
1717	-0.30	2.73E-06	8645	0.08	2.29E-03	5166	-0.10	1.19E-03	12605	-0.11	2.98E-05	13839	-0.16	1.53E-06
1718	0.10	1.23E-04	8646	0.09	7.99E-03	5169	0.10	8.98E-03	12606	-0.13	1.46E-04	13845	0.10	4.21E-04
1722	0.30	4.06E-22	8647	-0.24	3.36E-12	5172	-0.20	1.55E-09	12610	-0.25	8.42E-04	13851	0.16	9.02E-03
1727	0.10	3.63E-06	8648	-0.17	4.02E-05	5176	-0.30	1.09E-05	12613	-0.31	5.06E-19	13852	0.18	7.48E-11
1730	0.20	1.80E-17	8650	-0.19	4.49E-05	5179	-0.30	5.89E-06	12623	-0.12	5.08E-05	13857	0.09	7.94E-04
1731	-0.20	7.24E-08	8651	-0.12	2.77E-03	5204	-0.20	1.05E-06	12625	0.14	3.33E-07	13861	0.09	5.93E-03
1737	0.20	1.15E-05	8654	0.19	1.04E-07	5207	0.20	1.46E-10	12627	-0.26	3.66E-05	13865	-0.23	3.96E-03
1741	0.10	3.91E-06	8662	-0.32	1.20E-03	5209	0.10	8.55E-05	12630	0.17	2.00E-06	13869	-0.20	2.19E-07
1743	-0.30	3.85E-07	8664	0.11	8.59E-04	5211	0.10	1.23E-03	12644	-0.19	6.51E-09	13878	-0.17	5.26E-07
1744	0.10	3.33E-05	8666	-0.27	7.25E-03	5219	0.20	4.20E-08	12655	-0.09	3.49E-03	13879	-0.10	1.14E-03
1745	0.10	5.95E-05	8668	-0.17	9.21E-07	5223	0.10	1.54E-05	12656	-0.30	6.04E-18	13885	0.14	9.16E-06
1751	0.30	2.58E-30	8676	-0.23	4.26E-13	5229	-0.20	2.83E-03	12657	0.16	4.78E-08	13891	-0.24	2.72E-07
1752	0.30	4.63E-19	8679	0.12	3.18E-06	5230	0.30	5.11E-20	12658	-0.09	5.91E-03	13898	0.22	2.27E-13
1758	0.20	2.03E-04	8683	-0.20	5.72E-07	5235	-0.30	2.19E-13	12668	-0.32	1.59E-19	13899	-0.14	3.18E-05
1761	-0.10	5.22E-03	8686	0.09	8.96E-04	5237	0.10	7.10E-04	12673	-0.22	8.39E-12	13905	0.14	1.14E-03
1763	0.10	7.89E-03	8688	-0.12	4.36E-05	5239	-0.10	1.61E-04	12675	-0.25	2.61E-14	13906	-0.22	3.28E-10
1764	-0.20	2.81E-08	8689	0.13	2.32E-05	5241	-0.10	5.04E-04	12679	-0.12	1.78E-03	13916	-0.15	1.50E-03
1768	-0.20	5.62E-10	8690	-0.13	1.10E-03	5242	0.10	2.94E-03	12682	0.14	7.31E-05	13917	-0.21	1.08E-11
1774	-0.20	9.07E-03	8692	-0.13	5.99E-03	5247	0.20	2.75E-09	12683	-0.13	1.06E-05	13919	-0.15	1.69E-03
1776	-0.20	2.13E-07	8693	-0.35	1.74E-18	5249	-0.10	3.49E-04	12684	0.10	2.30E-03	13926	-0.17	7.50E-03
1778	-0.20	2.43E-03	8694	0.18	2.27E-10	5253	0.10	2.79E-03	12692	0.10	5.64E-03	13927	0.26	2.23E-15

1780	0.30	3.01E-24	8699	0.17	1.11E-09	5255	0.10	1.75E-04	12693	0.16	5.34E-08	13929	-0.20	1.91E-10
1784	0.20	3.02E-06	8700	0.32	1.78E-17	5261	-0.20	8.98E-08	12697	-0.20	4.41E-03	13934	-0.17	1.29E-08
1788	-0.10	2.07E-05	8704	-0.20	5.38E-05	5262	0.20	4.65E-05	12699	-0.19	6.97E-07	13935	0.09	7.69E-04
1789	0.10	4.09E-05	8705	-0.15	5.23E-03	5267	-0.30	1.19E-04	12705	-0.11	2.50E-04	13949	-0.23	9.74E-07
1790	-0.10	2.06E-07	8707	-0.41	1.09E-10	5273	-0.20	1.04E-07	12706	0.08	7.34E-03	13951	0.11	1.81E-04
1795	-0.20	7.24E-05	8708	-0.42	1.50E-10	5274	-0.20	7.76E-08	12710	0.11	1.27E-03	13955	0.09	2.20E-03
1798	0.20	3.73E-05	8710	-0.31	5.33E-10	5275	-0.20	1.74E-14	12711	0.08	7.02E-03	13967	-0.30	2.54E-04
1799	0.10	1.07E-04	8712	-0.17	3.57E-07	5276	-0.20	8.52E-03	12725	-0.32	1.55E-15	13971	0.13	8.86E-05
1803	-0.20	1.12E-05	8713	-0.13	1.40E-03	5278	0.20	7.87E-06	12728	-0.27	2.05E-08	13981	-0.10	2.82E-03
1804	-0.20	1.53E-04	8715	-0.26	2.26E-17	5280	0.10	1.27E-03	12740	-0.11	5.09E-04	13984	-0.25	3.38E-18
1805	-0.20	2.34E-07	8724	0.18	8.91E-08	5283	0.10	2.98E-05	12742	-0.09	8.94E-03	13989	-0.08	8.20E-03
1806	0.30	3.23E-06	8728	-0.43	2.42E-27	5285	-0.30	8.89E-18	12752	-0.18	2.23E-07	13994	0.11	3.94E-04
1813	0.10	2.12E-05	8729	-0.20	2.38E-04	5291	0.10	6.75E-04	12754	-0.14	6.43E-04	13998	0.30	2.61E-21
1815	-0.40	1.15E-11	8731	0.09	1.48E-03	5293	-0.20	1.30E-04	12757	0.14	5.48E-04	14007	-0.06	4.40E-03
1816	0.20	6.38E-04	8732	0.14	1.43E-07	5294	0.10	6.36E-04	12766	-0.20	1.09E-05	14009	-0.11	2.48E-04
1820	-0.20	9.40E-06	8733	-0.25	4.30E-12	5295	-0.20	2.46E-05	12781	-0.18	8.02E-07	14010	-0.14	3.98E-07
322														
1823	0.10	7.85E-03	8735	0.14	1.50E-07	5302	-0.10	2.82E-08	12786	0.11	8.31E-04	14016	0.10	1.38E-03
1825	-0.20	1.01E-13	8740	0.17	1.10E-12	5307	0.10	5.25E-04	12788	-0.20	3.80E-03	14019	0.08	2.03E-03
1827	-0.20	3.38E-09	8744	-0.25	7.85E-13	5308	-0.10	9.37E-06	12794	-0.13	2.66E-05	14031	-0.10	8.57E-04
1829	-0.30	1.54E-06	8745	-0.12	7.61E-05	5316	0.10	1.59E-04	12795	0.14	2.90E-07	14038	-0.14	8.85E-07
1836	-0.20	7.01E-08	8747	0.10	7.69E-04	5317	0.30	1.03E-19	12798	-0.14	3.94E-07	14049	0.11	3.18E-05
1837	0.10	7.17E-05	8749	0.12	6.95E-05	5321	0.10	1.92E-05	12799	0.27	1.14E-19	14050	0.13	3.03E-06
1843	-0.10	1.03E-03	8752	0.13	1.54E-04	5322	0.10	3.01E-03	12804	-0.22	2.49E-03	14052	-0.16	1.35E-07
1846	-0.20	1.06E-06	8754	0.22	1.72E-08	5323	-0.10	4.99E-03	12814	-0.27	9.15E-05	14057	-0.15	3.45E-08
1849	0.20	8.02E-09	8756	0.08	3.73E-03	5326	-0.20	1.57E-07	12816	-0.22	1.05E-07	14071	-0.12	2.15E-05
1853	0.20	2.12E-07	8757	-0.24	4.13E-14	5329	-0.40	3.43E-09	12820	0.13	9.45E-03	14079	0.27	2.41E-24
1856	0.10	3.85E-05	8759	-0.32	3.75E-06	5330	0.10	7.76E-03	12827	-0.20	9.43E-05	14081	-0.23	1.13E-06
1858	-0.20	2.85E-09	8764	-0.32	9.29E-06	5331	-0.10	1.08E-03	12828	-0.13	2.36E-05	14083	-0.15	6.53E-04
1859	-0.10	2.31E-03	8765	-0.09	2.44E-03	5333	-0.20	2.73E-06	12833	-0.17	7.69E-07	14086	-0.13	2.37E-06
1862	-0.20	4.50E-10	8767	-0.13	5.88E-04	5334	-0.20	4.53E-06	12837	0.09	2.16E-03	14088	0.10	6.10E-04
1864	-0.10	6.07E-04	8773	-0.27	1.44E-18	5338	0.10	1.85E-04	12840	-0.32	7.32E-07	14089	0.11	5.09E-05
1867	-0.20	6.81E-06	8774	0.11	3.78E-05	5340	-0.20	1.26E-03	12847	-0.21	3.08E-04	14106	0.14	8.00E-09
1869	0.20	7.58E-11	8777	-0.08	9.59E-03	5343	0.10	9.94E-06	12849	-0.13	9.35E-07	14111	-0.08	8.13E-03
1871	-0.10	3.40E-06	8780	0.10	2.57E-03	5344	0.20	6.06E-20	12850	0.16	1.42E-09	14113	0.21	9.51E-13
1875	-0.20	1.03E-04	8782	0.10	6.25E-04	5345	0.30	2.20E-38	12852	0.10	3.29E-04	14131	-0.15	2.22E-08
1876	0.10	2.41E-06	8785	-0.18	8.63E-03	5348	0.20	8.90E-09	12865	0.23	2.66E-06	14135	0.15	8.94E-03
1879	-0.10	3.94E-03	8792	-0.25	4.25E-07	5350	0.10	4.98E-06	12876	-0.17	7.66E-06	14136	-0.09	4.97E-03
1884	-0.20	4.28E-10	8793	0.13	2.52E-05	5353	0.30	1.88E-22	12881	0.13	2.46E-06	14152	0.16	3.82E-04
1887	0.10	2.35E-04	8797	-0.11	1.67E-05	5361	-0.20	4.62E-05	12882	-0.18	4.13E-05	14153	-0.18	6.17E-06

1889	-0.30	1.44E-18	8800	0.22	1.50E-10	5367	-0.10	7.50E-03	12885	0.16	8.28E-09	14164	-0.15	2.27E-06
1890	0.20	7.24E-11	8801	-0.12	4.17E-03	5368	0.10	5.67E-03	12887	0.18	1.46E-08	14170	0.18	1.17E-11
1893	0.10	2.64E-04	8805	-0.15	8.03E-08	5369	-0.10	1.34E-03	12888	-0.17	5.21E-07	14182	0.14	1.99E-06
1896	0.10	6.46E-04	8810	-0.13	1.35E-06	5372	-0.20	2.04E-03	12889	0.21	2.14E-14	14187	-0.23	1.33E-03
1900	0.20	3.42E-09	8814	-0.13	1.21E-03	5379	-0.20	7.10E-10	12894	-0.15	6.25E-03	14189	0.14	1.61E-04
1905	-0.20	2.73E-03	8820	-0.10	1.05E-03	5381	0.20	1.17E-08	12902	-0.15	1.44E-06	14191	-0.20	5.33E-08
1906	-0.20	2.18E-05	8822	-0.18	3.33E-08	5384	0.10	2.02E-03	12905	-0.26	1.39E-14	14194	-0.33	1.03E-07
1910	0.20	2.10E-07	8824	-0.32	4.73E-10	5390	0.10	1.45E-04	12907	0.14	1.20E-05	14195	-0.23	8.90E-10
1914	0.10	2.70E-04	8834	0.13	1.14E-05	5391	-0.10	2.40E-06	12909	-0.08	6.38E-03	14197	-0.26	2.38E-08
1922	-0.10	5.43E-07	8839	-0.36	4.27E-14	5397	0.10	1.41E-04	12927	-0.28	5.21E-22	14206	0.17	5.42E-06
1924	-0.10	9.67E-05	8840	0.09	3.62E-03	5399	-0.20	4.79E-13	12929	-0.15	5.41E-06	14213	0.13	2.41E-06
1926	0.10	7.57E-06	8841	-0.15	5.58E-05	5401	0.10	7.32E-03	12933	-0.20	7.63E-05	14222	-0.26	4.44E-07
1927	-0.20	1.90E-04	8843	-0.08	4.53E-03	5402	-0.10	5.37E-07	12938	-0.25	3.46E-05	14227	-0.10	9.46E-04
1928	-0.30	8.96E-18	8848	-0.26	1.28E-17	5412	-0.10	1.74E-05	12940	0.15	4.64E-08	14237	-0.29	5.16E-13
1929	0.10	3.94E-08	8849	-0.44	2.05E-13	5414	-0.30	1.56E-18	12941	-0.17	7.50E-03	14244	-0.22	3.55E-16
1930	0.20	3.45E-08	8854	-0.18	1.79E-03	5418	0.10	6.34E-05	12945	0.10	1.68E-03	14246	-0.16	5.85E-08
1931	0.10	7.91E-03	8855	-0.21	1.12E-11	5419	0.20	3.24E-10	12948	-0.22	7.59E-06	14253	0.13	2.63E-03
1932	-0.20	1.52E-04	8857	0.12	7.05E-06	5426	-0.10	6.43E-03	12952	0.13	4.45E-07	14265	-0.10	6.56E-04
1938	-0.20	2.32E-08	8859	-0.09	3.80E-03	5427	-0.10	7.14E-03	12958	-0.09	4.37E-03	14273	-0.18	1.15E-07
1939	0.20	5.45E-12	8860	-0.21	2.77E-03	5429	0.20	3.27E-07	12962	0.11	5.21E-03	14284	-0.20	6.34E-05
1941	0.20	5.76E-20	8861	-0.10	1.18E-03	5431	-0.30	1.56E-04	12964	-0.13	1.03E-03	14290	-0.17	1.77E-03
1942	-0.20	1.01E-05	8865	-0.17	2.49E-08	5432	0.20	2.83E-20	12969	0.07	3.75E-04	14296	-0.21	2.81E-13
1944	0.10	4.70E-04	8867	0.14	1.10E-06	5435	0.10	4.24E-05	12977	0.25	9.53E-13	14298	0.11	8.09E-04
1947	0.10	9.32E-04	8880	-0.08	7.69E-03	5438	0.10	7.17E-03	12979	-0.17	3.70E-07	14300	-0.10	1.56E-03
1952	-0.20	1.10E-04	8883	-0.33	1.56E-04	5439	-0.20	9.63E-03	12981	0.11	9.93E-04	14301	0.19	4.60E-15
1956	0.10	1.23E-03	8888	0.18	3.58E-11	5446	0.20	4.06E-13	12987	0.08	4.93E-03	14306	0.12	3.94E-05
1963	-0.30	6.83E-04	8893	0.14	1.89E-07	5453	-0.20	4.59E-03	12993	0.15	1.52E-08	14307	0.23	2.15E-16
1964	0.10	4.24E-06	8898	-0.17	8.51E-11	5455	-0.10	1.29E-03	12994	-0.19	8.84E-10	14309	0.13	8.75E-07
1965	0.10	1.81E-03	8899	-0.18	2.43E-10	5461	-0.20	1.21E-07	12995	0.11	2.76E-04	14311	-0.15	3.83E-08
1969	0.10	1.64E-04	8902	0.13	1.00E-03	5462	0.10	5.91E-03	12996	0.10	2.54E-04	14313	0.09	1.72E-03
1971	0.20	3.92E-11	8903	0.13	6.03E-04	5463	-0.10	5.12E-07	12998	0.09	1.06E-03	14315	-0.06	4.61E-03
1974	-0.10	8.19E-07	8904	-0.14	1.55E-04	5465	0.20	1.49E-07	13000	-0.24	7.22E-19	14316	-0.10	2.92E-04
1978	-0.20	1.01E-05	8908	-0.25	4.54E-21	5466	-0.10	4.00E-07	13002	-0.12	6.77E-05	14330	-0.16	2.02E-08
1980	0.10	2.46E-05	8910	0.23	2.40E-17	5470	-0.20	2.29E-16	13003	-0.15	1.86E-04	14333	0.14	8.29E-07
1981	0.20	9.15E-12	8911	0.16	1.18E-08	5473	-0.10	3.30E-06	13006	0.10	3.24E-03	14334	-0.08	6.01E-03
1985	-0.10	1.47E-03	8914	0.18	2.17E-06	5475	0.20	4.10E-06	13009	-0.13	1.17E-05	14365	0.07	8.46E-03
1986	-0.20	5.26E-04	8919	-0.17	9.29E-07	5480	0.20	3.63E-11	13010	0.10	4.45E-04	14369	0.12	2.72E-03
1988	-0.10	4.52E-05	8922	-0.18	1.11E-11	5485	-0.20	1.79E-03	13018	-0.14	4.15E-05	14377	0.15	6.35E-09
1990	-0.30	3.34E-06	8928	-0.15	7.57E-06	5486	-0.20	1.81E-03	13020	0.11	6.87E-05	14379	-0.32	8.15E-07
1992	0.10	4.08E-03	8934	-0.10	4.50E-03	5491	0.10	5.41E-08	13022	-0.07	8.87E-03	14381	-0.29	1.24E-10

323														
1996	0.30	3.66E-15	8941	-0.19	1.61E-03	5492	-0.10	3.76E-03	13025	0.09	9.57E-03	14389	-0.15	2.12E-07
1997	0.10	4.86E-03	8946	-0.22	6.17E-04	5493	-0.10	1.52E-04	13029	0.09	4.87E-03	14390	0.21	2.47E-11
1999	0.10	2.79E-03	8952	0.15	3.35E-06	5494	-0.10	5.29E-04	13031	-0.28	2.57E-05	14391	-0.16	2.56E-08
2002	-0.50	5.67E-08	8954	0.27	4.53E-21	5495	0.20	1.24E-05	13043	0.14	2.65E-07	14392	0.09	5.94E-03
2004	0.20	6.44E-08	8957	0.13	1.60E-05	5499	0.10	6.06E-03	13048	0.11	1.29E-03	14405	0.11	4.44E-03
2007	-0.10	4.44E-03	8958	0.08	6.22E-03	5501	0.20	6.69E-10	13051	0.20	7.27E-14	14406	-0.23	1.81E-06
2009	-0.20	5.36E-12	8959	-0.23	6.56E-08	5502	0.20	1.19E-09	13055	0.09	8.95E-04	14411	-0.11	7.34E-05
2015	-0.30	1.89E-05	8960	-0.18	3.27E-10	5505	-0.30	7.81E-07	13063	-0.14	5.14E-04	14414	0.10	6.86E-08
2017	-0.20	4.46E-08	8963	-0.21	5.63E-06	5509	0.10	4.31E-04	13065	-0.19	1.41E-08	14424	-0.23	2.15E-06
2018	0.10	1.14E-06	8967	0.20	1.60E-05	5511	-0.20	4.08E-10	13070	-0.26	1.41E-03	14426	-0.15	2.01E-06
2019	0.10	2.44E-07	8968	0.10	9.06E-03	5513	-0.10	5.63E-06	13075	0.13	4.28E-07	14430	0.10	3.83E-04
2024	0.20	2.16E-11	8971	0.10	6.22E-06	5514	0.10	1.51E-03	13077	-0.10	6.62E-03	14441	0.09	1.25E-03
2030	0.10	2.96E-05	8977	0.17	2.84E-08	5518	-0.20	1.32E-04	13080	0.08	8.70E-03	14447	0.19	1.32E-03
2035	-0.10	8.36E-05	8979	0.09	3.71E-03	5520	0.10	2.24E-05	13083	-0.09	3.45E-03	14448	-0.15	3.26E-05
2036	0.20	2.09E-03	8980	-0.10	8.00E-04	5522	-0.30	5.20E-19	13085	-0.18	5.13E-03	14450	0.10	1.25E-03
2037	-0.10	7.88E-03	8981	-0.33	1.14E-23	5525	-0.10	5.48E-03	13086	-0.27	8.32E-04	14451	0.14	7.56E-05
2038	0.20	1.40E-04	8985	-0.47	4.66E-08	5527	0.10	1.20E-07	13089	-0.19	4.46E-06	14454	0.14	1.78E-04
2044	-0.20	2.13E-07	8987	-0.15	1.01E-06	5536	-0.20	1.36E-08	13107	-0.08	7.01E-03	14460	0.11	5.26E-05
2048	0.10	2.81E-05	8988	0.11	9.08E-03	5539	-0.10	1.10E-04	13108	0.09	9.46E-04	14463	0.11	2.18E-04
2049	0.20	1.00E-09	8992	0.12	3.16E-03	5541	-0.10	8.04E-03	13109	0.08	6.99E-03	14469	-0.09	7.07E-03
2056	-0.10	7.47E-06	8993	0.12	3.38E-03	5548	0.10	3.52E-03	13111	0.18	1.36E-11	14474	-0.16	6.40E-05
2057	0.10	9.82E-05	8996	0.11	6.67E-04	5552	-0.10	6.80E-05	13113	-0.09	1.09E-03	14476	0.24	7.79E-12
2059	0.20	3.17E-13	8997	0.17	5.46E-10	5554	-0.10	8.96E-03	13123	-0.16	1.89E-04	14478	-0.15	2.12E-05
2071	0.10	9.79E-04	8999	0.19	5.93E-09	5570	0.30	1.55E-29	13126	-0.17	8.17E-09	14479	-0.17	8.82E-07
2075	-0.20	2.85E-17	9000	-0.17	6.94E-04	5571	0.20	9.07E-05	13128	-0.19	8.27E-05	14484	0.16	4.14E-09
2077	0.20	5.52E-17	9003	0.21	4.22E-14	5574	-0.20	6.84E-12	13132	0.08	2.06E-03	14498	-0.13	1.07E-03
2078	-0.10	4.09E-03	9006	0.10	2.23E-04	5576	0.10	3.63E-03	13139	0.27	6.72E-17	14502	-0.23	1.52E-03
2080	-0.10	6.98E-03	9010	-0.14	1.84E-07	5577	0.10	4.48E-03	13142	-0.27	2.01E-07	14504	-0.19	3.35E-04
2088	0.10	8.30E-06	9011	0.18	1.04E-10	5578	0.10	1.28E-04	13143	0.24	8.15E-17	14506	0.07	9.10E-03
2090	-0.10	1.99E-06	9013	-0.13	9.93E-05	5580	-0.20	6.39E-14	13149	0.21	2.65E-13	14507	0.18	9.13E-11
2093	-0.20	2.96E-15	9022	0.14	9.80E-03	5585	0.10	7.81E-04	13151	-0.23	2.85E-06	14509	0.09	3.69E-03
2094	-0.20	6.80E-08	9023	-0.07	7.58E-03	5590	0.20	3.00E-12	13153	-0.12	4.29E-05	14514	-0.08	6.19E-03
2098	0.10	1.09E-03	9027	-0.20	4.18E-11	5592	0.10	2.61E-07	13161	-0.26	2.34E-20	14523	0.21	2.15E-13
2105	0.20	7.86E-07	9030	0.08	8.02E-03	5593	-0.20	9.48E-06	13171	0.12	1.88E-03	14524	-0.28	2.79E-10
2107	0.30	4.09E-16	9032	0.11	3.58E-03	5594	-0.10	2.87E-03	13173	0.09	1.27E-03	14525	-0.22	9.93E-04
2110	0.10	6.99E-05	9034	0.10	9.85E-04	5596	-0.20	6.34E-07	13178	0.07	8.51E-03	14533	-0.09	5.74E-03
2114	-0.20	4.13E-03	9040	-0.11	3.81E-04	5597	-0.20	6.17E-07	13184	-0.18	3.62E-07	14535	-0.08	8.16E-03
2116	-0.20	1.47E-03	9043	-0.30	1.84E-08	5602	-0.20	4.71E-11	13191	-0.16	4.92E-04	14539	-0.13	3.86E-03
2117	-0.10	3.98E-03	9046	-0.26	1.47E-11	5605	-0.40	1.39E-12	13194	0.11	1.99E-04	14551	-0.20	7.03E-03

2118	0.20	5.84E-07	9049	-0.25	4.90E-05	5606	-0.30	5.63E-12	13195	-0.09	2.92E-03	14555	0.15	3.30E-08
2121	0.10	3.13E-03	9050	-0.19	7.70E-07	5608	-0.30	3.81E-21	13199	-0.16	8.49E-06	14560	-0.17	4.98E-05
2123	0.10	2.46E-04	9054	-0.09	8.94E-03	5614	-0.20	2.39E-04	13200	0.15	1.38E-05	14568	-0.17	1.40E-03
2126	0.20	2.35E-12	9055	-0.18	2.00E-07	5617	-0.10	4.03E-03	13205	0.11	1.12E-04	14582	0.18	4.19E-10
2131	-0.30	1.61E-05	9057	-0.17	3.07E-11	5619	0.20	1.66E-13	13211	-0.30	3.11E-07	14602	-0.08	6.55E-04
2134	0.10	6.38E-07	9059	-0.18	4.27E-05	5623	0.20	3.87E-08	13212	0.12	2.09E-04	14603	0.11	7.86E-05
2137	0.10	1.60E-03	9065	0.17	5.48E-07	5624	-0.10	1.39E-04	13214	0.15	7.65E-08	14612	-0.23	2.53E-16
2140	0.10	9.16E-03	9070	0.17	2.59E-04	5625	-0.30	3.29E-07	13230	-0.13	4.27E-06	14616	-0.16	1.72E-03
2141	0.10	3.46E-05	9077	0.10	1.78E-03	5626	0.10	1.19E-04	13236	-0.31	4.88E-04	14617	0.10	7.30E-03
2145	-0.10	2.82E-05	9081	0.11	1.05E-04	5627	0.10	1.99E-06	13238	-0.15	4.29E-08	14623	0.13	1.11E-04
2162	0.10	1.44E-03	9084	-0.19	5.64E-07	5632	0.10	4.79E-03	13254	0.12	3.92E-05	14625	-0.15	3.66E-06
2163	-0.20	3.59E-06	9087	-0.13	3.90E-07	5637	0.10	1.80E-03	13255	-0.10	1.16E-03	14626	-0.16	7.61E-09
2172	0.20	1.40E-08	9089	-0.13	3.98E-05	5638	0.10	4.33E-04	13258	-0.18	1.15E-03	14628	-0.17	4.48E-11
2178	0.10	1.06E-03	9093	0.10	4.06E-04	5639	-0.20	1.65E-12	13264	-0.15	2.04E-08	14631	-0.13	2.74E-06
2187	-0.20	4.01E-07	9094	0.10	2.98E-03	5647	-0.10	3.85E-05	13276	0.14	6.87E-07	14649	0.12	1.27E-05
2195	-0.20	3.52E-08	9095	-0.20	4.28E-03	5654	-0.10	5.48E-03	13279	-0.32	1.42E-05	14651	0.10	4.40E-04
2200	-0.30	2.52E-06	9099	-0.11	5.40E-03	5668	-0.10	7.24E-06	13281	-0.10	6.14E-03	14654	0.11	2.49E-04
2201	0.10	8.46E-06	9101	0.28	1.76E-25	5670	0.20	4.61E-09	13292	0.13	1.14E-03	14658	0.10	1.43E-05
2203	-0.10	2.39E-03	9103	0.18	3.52E-07	5674	-0.50	3.33E-27	13296	0.11	1.27E-03	14661	-0.12	1.19E-04
2210	-0.10	6.54E-03	9106	-0.24	8.46E-06	5677	0.20	2.50E-10	13302	0.12	8.12E-06	14668	-0.29	4.61E-11
2211	0.10	1.99E-05	9110	-0.28	8.46E-08	5682	0.20	2.74E-09	13305	-0.32	1.20E-11	14688	0.09	4.54E-03
2215	0.10	1.03E-05	9113	-0.23	5.89E-07	5684	0.20	3.74E-04	13306	-0.21	1.55E-03	14694	-0.13	2.42E-03
2218	0.10	1.45E-06	9125	-0.35	2.09E-08	5688	-0.20	1.20E-04	13308	-0.17	7.53E-03	14695	-0.27	5.18E-17
2224	0.20	4.88E-19	9127	-0.19	1.16E-09	5691	0.20	6.51E-09	13310	0.19	5.10E-11	14696	0.19	1.34E-05
324														
2226	-0.30	1.43E-05	9129	0.28	1.29E-25	5699	-0.10	9.90E-03	13315	-0.41	7.66E-04	14697	-0.17	2.43E-07
2227	-0.30	2.39E-13	9132	-0.15	2.47E-08	5701	0.20	4.21E-06	13326	0.15	1.07E-03	14698	-0.17	1.51E-07
2228	-0.20	2.14E-05	9136	-0.26	6.15E-04	5703	0.30	2.36E-24	13328	0.22	7.91E-13	14699	0.14	1.81E-07
2229	-0.20	2.37E-06	9138	0.26	1.53E-21	5704	0.20	2.01E-09	13336	-0.08	8.86E-03	14700	-0.25	7.47E-20
2231	0.20	2.78E-14	9140	0.15	2.63E-05	5705	0.10	2.09E-03	13349	0.10	1.34E-03	14701	-0.16	1.21E-04
2232	-0.10	1.26E-03	9142	0.09	2.29E-03	5707	-0.10	2.38E-05	13352	-0.14	9.59E-05	14704	0.13	6.98E-03
2245	-0.10	3.68E-04	9150	0.08	2.98E-03	5708	-0.40	8.89E-08	13355	-0.12	2.87E-05	14705	-0.15	8.39E-05
2246	0.20	6.30E-04	9154	-0.15	6.95E-03	5710	0.20	1.78E-05	13365	-0.26	4.37E-04	14724	-0.11	1.07E-03
2247	-0.10	3.10E-03	9155	-0.10	4.06E-03	5711	-0.10	2.15E-05	13367	0.17	5.39E-10	14727	0.10	8.14E-04
2248	-0.10	5.56E-05	9158	0.14	1.98E-05	5713	0.10	1.04E-07	13368	-0.22	6.92E-04	14734	-0.25	1.43E-12
2250	-0.20	2.05E-08	9161	-0.09	1.28E-03	5714	0.10	1.61E-03	13372	-0.08	9.48E-03	5897	-0.30	4.30E-23
2251	-0.20	7.28E-09	9165	0.14	3.35E-13	5715	-0.20	3.80E-04	13378	-0.31	8.00E-07	5898	-0.20	1.79E-04
2260	-0.10	1.24E-03	9166	-0.14	6.33E-06	5722	-0.20	1.53E-03	13381	-0.17	1.26E-03	5900	-0.30	6.14E-05
2261	-0.20	3.44E-09	9167	0.09	2.55E-03	5723	-0.20	8.71E-06	13382	0.26	2.44E-11	5901	-0.10	9.53E-06
2268	-0.20	1.64E-05	9168	0.09	3.49E-03	5731	0.10	4.66E-05	13384	-0.10	9.25E-04	5904	0.10	1.19E-05

2275	-0.20	5.14E-14	9173	0.20	1.10E-13	5737	-0.10	8.49E-04	13404	-0.24	2.15E-03	5906	0.20	5.46E-08
2284	-0.10	6.94E-05	9174	0.16	4.17E-04	5741	-0.10	3.79E-07	13407	0.09	1.67E-03	5914	0.20	7.06E-19
2285	-0.20	3.05E-09	9178	-0.22	1.61E-05	5742	-0.10	6.37E-07	13434	0.14	6.61E-07	5916	0.20	9.66E-08
2293	0.20	9.47E-10	9179	-0.21	2.11E-05	5746	0.10	1.17E-03	13441	0.11	1.50E-04	5918	-0.10	9.55E-04
2294	0.20	7.11E-10	9182	-0.10	1.34E-03	5752	0.20	3.15E-08	13448	0.10	5.11E-04	5921	-0.20	1.33E-07
2295	-0.10	2.05E-04	9183	-0.14	5.07E-08	5753	-0.20	6.09E-06	13457	-0.13	1.76E-04	5922	-0.30	4.27E-07
2300	0.20	1.27E-19	9184	0.11	1.70E-04	5754	0.30	3.38E-23	13460	0.14	4.95E-04	5923	0.10	9.26E-03
2303	0.30	6.51E-20	9187	-0.13	3.34E-08	5756	0.20	2.33E-07	13465	0.13	7.68E-04	5924	-0.10	1.87E-04
2304	0.20	1.06E-09	9188	0.12	3.78E-05	5760	0.10	9.44E-04	13466	-0.19	3.30E-11	5929	-0.20	7.61E-09
2311	0.10	2.83E-05	9191	-0.14	1.20E-06	5761	0.10	1.01E-05	13472	-0.16	6.82E-03	5930	-0.30	4.83E-20
2314	0.10	3.46E-07	9192	-0.27	1.71E-18	5762	0.10	1.17E-05	13475	-0.09	2.15E-03	5931	0.10	4.08E-04
2315	0.20	1.20E-08	9193	-0.21	4.73E-03	5763	0.20	1.05E-03	13484	0.10	2.70E-03	5933	-0.30	7.60E-09
2316	0.20	3.02E-08	9194	0.09	2.79E-03	5764	0.20	2.00E-06	13485	0.29	2.54E-14	5937	0.10	1.77E-03
2318	-0.10	2.66E-03	9199	0.10	9.62E-03	5768	-0.10	6.63E-04	13491	-0.39	1.39E-03	5942	0.20	6.44E-06
2320	-0.10	2.33E-05	9200	-0.16	6.81E-06	5774	-0.40	4.02E-04	13495	0.09	8.74E-04	5946	-0.10	1.67E-03
2323	0.20	1.07E-10	9201	0.11	1.65E-04	5775	0.10	2.87E-07	13496	-0.10	2.34E-03	5951	-0.10	6.37E-03
2324	-0.30	2.78E-14	9207	0.13	8.99E-07	5777	0.20	2.01E-07	13501	-0.11	4.94E-05	5952	-0.10	1.67E-03
2325	-0.20	7.87E-12	9208	-0.17	1.11E-04	5784	-0.20	4.45E-08	13512	0.09	2.34E-03	5955	0.20	3.05E-06
2328	0.10	5.51E-07	9213	0.09	5.92E-03	5785	-0.30	3.13E-09	13517	-0.16	1.88E-05	5956	-0.30	9.27E-05
2329	-0.20	6.40E-07	9217	0.19	3.48E-06	5788	-0.10	1.91E-03	13519	0.24	9.11E-08	5958	0.10	2.44E-03
2330	0.10	1.76E-04	9225	0.13	3.32E-10	5790	-0.20	6.84E-04	13523	0.12	5.96E-04	5966	0.20	3.13E-13
2335	-0.30	2.23E-21	9227	-0.11	2.54E-04	5791	-0.20	1.40E-09	13526	0.15	9.59E-08	5968	-0.10	1.05E-07
2336	0.10	8.11E-04	9228	0.16	1.95E-09	5792	0.10	4.55E-03	13527	-0.30	2.78E-26	5970	0.10	4.31E-07
2338	0.10	3.09E-03	9232	-0.19	8.87E-06	5793	0.10	9.64E-04	13529	0.16	3.55E-06	5971	0.20	4.80E-20
2341	-0.10	2.84E-03	9236	0.08	4.36E-03	5795	0.20	5.24E-03	13538	-0.19	9.13E-10	5973	0.10	2.91E-06
2343	0.10	1.58E-06	9237	-0.16	1.33E-09	5796	-0.10	6.38E-06	13540	-0.31	1.75E-04	5975	0.10	4.19E-04
2345	-0.10	4.23E-04	9241	-0.12	1.39E-04	5798	-0.10	3.71E-04	13561	-0.15	3.14E-04	5978	-0.10	2.30E-03
2354	-0.30	2.87E-05	9244	-0.10	8.11E-04	5800	-0.20	3.35E-08	13565	-0.15	3.91E-07	5979	0.20	1.82E-08
2360	-0.10	1.07E-04	9248	0.25	3.33E-19	5806	-0.30	3.97E-10	13578	0.23	2.08E-17	5986	0.10	1.50E-05
2362	-0.20	4.26E-09	9255	-0.19	1.42E-03	5807	0.10	3.97E-03	13592	-0.21	3.02E-03	5989	0.10	4.45E-03
2369	-0.10	4.30E-04	9258	0.09	7.91E-03	5808	0.20	1.83E-08	13603	-0.08	5.72E-03	5990	-0.20	1.21E-06
2371	-0.10	6.16E-04	9259	-0.20	3.51E-04	5809	-0.20	1.08E-04	13608	0.25	6.59E-20	5992	-0.10	1.70E-06
2373	-0.30	6.08E-08	9260	-0.22	8.19E-13	5812	0.10	6.73E-04	13609	0.13	4.39E-06	5993	-0.10	4.72E-03
2388	-0.10	1.00E-04	9261	0.06	4.94E-03	5815	-0.20	8.77E-04	13612	-0.11	1.06E-03	5994	0.10	4.17E-04
2389	-0.30	1.63E-20	9265	0.19	2.10E-05	5816	-0.30	8.84E-04	13615	0.13	4.88E-04	5995	0.10	4.30E-04
2390	-0.20	4.62E-07	9266	-0.22	4.70E-09	5819	-0.20	1.85E-06	13626	-0.34	9.13E-05	5996	0.10	8.52E-04
2391	-0.10	6.06E-03	9269	-0.15	1.37E-06	5821	-0.20	1.07E-11	13629	0.22	8.17E-18	5997	0.10	9.22E-04
2393	-0.20	1.08E-10	9276	-0.15	3.36E-05	5822	-0.20	2.11E-04	13631	-0.14	2.17E-04	5998	-0.10	2.18E-06
2394	-0.20	9.49E-07	9281	-0.28	2.37E-22	5824	-0.10	6.52E-03	13632	-0.13	1.00E-03	6005	-0.10	1.49E-05
2398	0.10	8.52E-06	9285	0.09	4.24E-03	5825	-0.30	1.20E-13	13635	-0.17	6.44E-10	6006	-0.10	4.47E-04

2400	0.20	9.76E-11	9288	-0.14	1.59E-06	5828	-0.20	4.27E-04	13637	-0.21	3.87E-10	6013	-0.30	1.10E-06
2406	0.20	5.60E-10	9289	-0.19	4.10E-04	5831	-0.20	2.49E-07	13654	-0.12	1.20E-03	6016	-0.20	6.42E-11
2408	0.20	7.70E-09	9290	-0.15	1.75E-07	5835	0.20	3.89E-08	13656	-0.10	3.05E-05	6017	-0.20	7.45E-03

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TABLE 18 - GENETIC MARKERS FOR UDDER DEPTH

A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
3	0.10	5.19E-05	2773	-0.20	8.00E-04	5435	0.10	9.68E-03	8240	-0.10	8.03E-03	10924	0.10	9.16E-04
13	0.10	3.29E-03	2780	-0.10	3.67E-03	5466	-0.10	3.38E-04	8241	-0.10	8.08E-04	10945	-0.10	6.34E-03
17	0.10	8.12E-03	2781	0.10	4.54E-05	5470	-0.10	3.79E-04	8246	-0.20	2.30E-03	10952	0.10	3.17E-06
24	-0.10	7.98E-03	2789	0.10	3.47E-03	5480	0.10	5.95E-04	8248	0.10	2.28E-03	10965	0.10	1.55E-04
26	0.10	3.85E-03	2795	0.10	9.71E-03	5491	0.10	1.55E-03	8250	0.20	8.53E-03	10987	-0.10	2.94E-03
36	-0.10	3.36E-03	2800	-0.10	5.21E-03	5518	-0.20	1.34E-03	8255	-0.10	8.46E-03	10995	-0.10	2.19E-03
39	-0.20	7.63E-05	2815	0.10	7.16E-03	5525	-0.10	1.13E-03	8270	0.10	6.10E-06	11016	-0.10	7.65E-03
40	0.10	3.68E-03	2816	-0.20	4.79E-04	5536	-0.20	2.54E-09	8274	0.10	6.60E-04	11029	0.20	2.44E-08
43	0.10	3.31E-03	2819	0.10	4.11E-03	5539	0.10	7.28E-03	8289	-0.10	9.05E-05	11036	-0.10	1.05E-03
46	-0.20	1.50E-11	2826	-0.10	5.16E-03	5545	0.10	7.65E-03	8290	-0.10	5.02E-03	11038	-0.10	3.63E-03
66	-0.10	4.60E-03	2844	-0.20	4.05E-03	5574	-0.10	3.76E-03	8293	0.10	1.54E-05	11048	-0.10	1.00E-03
71	-0.10	1.62E-03	2845	-0.20	4.99E-03	5585	0.10	8.85E-03	8300	-0.10	9.88E-05	11065	-0.10	2.52E-04
78	0.10	6.48E-03	2848	-0.10	3.08E-07	5590	0.10	2.32E-06	8304	0.10	1.52E-03	11078	-0.10	4.89E-04
83	0.10	1.76E-03	2864	-0.10	5.28E-03	5594	-0.10	4.14E-04	8307	-0.10	6.96E-03	11082	-0.10	6.75E-04
99	0.10	5.01E-06	2872	-0.10	1.38E-03	5608	-0.10	3.66E-03	8324	-0.10	1.91E-03	11083	0.10	1.33E-06
100	0.10	9.15E-03	2887	-0.20	3.13E-04	5621	0.10	4.28E-03	8327	-0.20	1.01E-03	11088	0.10	3.48E-03
101	-0.10	9.05E-04	2901	-0.10	5.95E-04	5622	0.10	4.46E-03	8348	0.10	4.74E-05	11094	0.10	8.53E-05
117	0.10	9.93E-03	2916	0.10	9.69E-03	5632	0.10	1.32E-03	8351	0.10	1.29E-04	11115	-0.20	5.60E-05
122	-0.30	1.80E-08	2927	0.10	1.89E-03	5634	-0.10	6.32E-03	8352	-0.10	2.04E-03	11122	0.10	6.37E-04
123	-0.10	4.41E-04	2939	0.10	6.98E-06	5635	-0.10	8.92E-03	8353	-0.10	1.03E-05	11130	-0.10	5.04E-03
130	0.10	2.99E-03	2959	-0.10	9.68E-03	5660	-0.10	1.01E-03	8360	0.10	1.44E-04	11136	-0.10	7.02E-04
131	0.10	4.69E-05	2962	0.10	8.91E-04	5670	0.10	1.25E-06	8388	-0.10	6.84E-03	11139	-0.10	4.52E-03
132	0.10	4.23E-03	2965	0.10	8.94E-03	5674	-0.10	1.50E-05	8402	-0.10	1.09E-03	11143	-0.10	1.09E-03
138	-0.10	6.76E-03	2983	-0.10	6.21E-03	5684	0.20	2.43E-03	8405	0.10	1.53E-05	11151	0.10	2.64E-03
156	0.20	3.69E-11	2995	0.10	3.32E-05	5690	0.10	1.22E-03	8406	0.10	4.77E-04	11153	-0.10	9.62E-03
163	0.10	2.13E-03	3010	-0.10	3.79E-03	5691	0.10	7.92E-03	8413	0.10	2.30E-04	11172	-0.10	2.96E-04
181	0.20	1.53E-10	3028	0.10	4.17E-05	5726	-0.10	7.53E-03	8415	0.10	7.22E-04	11174	0.10	1.50E-06
186	0.10	1.07E-03	3039	-0.10	7.37E-03	5735	0.10	1.78E-03	8417	0.10	1.36E-03	11182	0.10	3.94E-06
219	0.10	8.29E-03	3042	0.10	4.99E-03	5748	0.20	9.11E-03	8421	-0.10	1.58E-05	11199	0.10	5.53E-03
222	-0.10	5.00E-04	3050	-0.10	5.59E-05	5752	0.20	2.18E-08	8446	-0.10	4.30E-03	11202	-0.10	5.15E-03
224	0.20	7.65E-04	3068	0.10	9.22E-03	5758	-0.10	8.78E-03	8449	0.10	1.53E-03	11213	0.20	5.28E-08
231	-0.10	5.53E-04	3075	0.10	9.18E-03	5791	-0.10	4.82E-04	8450	0.10	7.78E-03	11231	-0.10	1.51E-03
249	-0.10	3.47E-03	3076	0.10	4.59E-04	5800	-0.10	3.09E-03	8451	-0.10	3.87E-04	11277	-0.10	1.45E-03
263	0.10	3.15E-03	3082	-0.10	1.89E-03	5811	0.10	2.17E-04	8455	0.10	8.39E-05	11284	-0.10	1.64E-07
270	0.10	3.05E-05	3084	0.10	8.29E-04	5813	-0.10	1.26E-03	8456	-0.10	1.79E-05	11290	-0.10	2.49E-06
272	-0.10	8.85E-04	3116	-0.10	1.34E-03	5828	-0.10	4.28E-03	8464	0.10	6.82E-03	11291	-0.10	8.09E-03
291	-0.10	1.26E-03	3122	0.10	2.40E-03	5835	0.20	2.82E-06	8467	0.10	1.26E-04	11294	-0.10	5.87E-03

298	0.10	5.65E-04	3124	-0.10	1.62E-05	5841	0.10	2.41E-03	8484	-0.10	2.28E-03	11298	-0.20	3.11E-03
315	0.20	1.97E-08	3129	0.10	9.54E-04	5865	-0.10	8.80E-03	8498	-0.10	8.84E-04	11303	-0.10	6.86E-03
321	0.20	6.76E-04	3142	0.10	3.32E-04	5880	0.10	1.49E-04	8515	0.10	6.02E-03	11321	-0.10	1.32E-03
323	-0.10	5.80E-03	3144	-0.10	4.53E-03	5887	-0.10	7.51E-03	8521	0.10	4.40E-04	11343	0.10	9.23E-03
330	-0.10	3.94E-03	3145	-0.10	4.66E-03	5890	0.10	6.60E-04	8525	-0.10	1.22E-03	11344	0.10	3.39E-03
333	0.10	5.30E-05	3149	0.10	1.23E-04	5909	0.10	1.80E-03	8540	0.10	2.81E-03	11369	-0.10	1.74E-03
352	-0.10	6.96E-03	3168	0.10	1.33E-03	5921	-0.10	1.99E-03	8548	-0.20	1.39E-04	11382	-0.10	1.54E-05
353	0.10	6.03E-03	3169	-0.10	4.14E-03	5922	-0.10	9.39E-04	8557	-0.20	2.50E-04	11396	0.10	6.48E-03
359	0.10	1.37E-04	3182	-0.10	9.28E-03	5929	-0.10	2.52E-03	8560	-0.10	3.92E-03	11413	0.10	3.60E-03
370	0.10	1.01E-04	3184	0.10	3.52E-03	5930	-0.10	1.10E-05	8578	0.10	7.41E-04	11417	-0.10	4.23E-03
376	-0.20	1.98E-05	3189	-0.10	8.11E-05	5933	-0.20	2.52E-06	8593	-0.10	9.30E-04	11421	0.20	4.13E-03
380	0.10	3.25E-04	3191	-0.10	2.69E-07	5937	0.10	9.12E-05	8598	-0.20	1.01E-07	11431	-0.10	3.50E-05
388	0.20	6.53E-03	3192	-0.20	1.19E-07	5939	-0.10	1.42E-03	8599	-0.10	2.37E-03	11435	-0.10	1.19E-03
393	0.10	2.50E-05	3198	0.10	3.93E-03	5948	0.10	1.74E-04	8604	0.10	7.71E-05	11440	-0.10	2.95E-03
394	-0.10	5.74E-04	3200	0.10	3.04E-03	5958	0.10	2.04E-04	8607	-0.10	1.49E-03	11469	-0.10	8.64E-05
397	0.10	8.98E-06	3217	-0.10	6.50E-04	5973	0.10	4.35E-04	8617	0.20	3.78E-05	11471	0.10	8.83E-08
406	0.10	7.21E-03	3220	0.10	4.86E-03	5985	0.10	6.98E-03	8627	-0.10	3.76E-03	11475	0.10	1.39E-03
408	-0.10	6.38E-04	3263	0.10	4.39E-03	5990	-0.20	3.34E-08	8629	0.10	5.25E-03	11489	0.20	8.83E-04
409	0.10	2.50E-04	3282	-0.10	1.86E-05	6005	-0.20	3.51E-09	8632	-0.20	5.85E-06	11495	-0.10	2.61E-05
425	-0.10	7.35E-04	3292	0.10	7.39E-03	6033	-0.20	1.19E-09	8642	-0.20	1.75E-03	11499	-0.10	3.37E-03
428	0.10	1.70E-04	3302	0.20	1.87E-08	6035	0.10	1.61E-03	8647	-0.10	1.33E-03	11515	0.10	4.48E-04
429	0.10	3.43E-05	3303	0.20	1.81E-08	6040	0.10	4.87E-03	8650	-0.10	2.99E-04	11520	-0.10	7.05E-03
433	-0.10	2.65E-04	3312	-0.10	7.72E-05	6053	-0.10	9.27E-03	8680	0.10	1.82E-03	11533	0.10	6.46E-03
488	-0.10	3.85E-03	3313	-0.10	1.79E-04	6064	0.10	8.51E-03	8688	-0.10	5.73E-04	11555	-0.10	6.08E-04
326														
497	-0.10	6.98E-03	3317	0.10	2.36E-05	6066	0.10	6.17E-05	8692	-0.30	1.57E-07	11560	-0.10	5.19E-04
499	0.10	9.39E-04	3318	0.10	1.95E-05	6068	0.10	3.00E-03	8693	-0.10	5.44E-05	11574	-0.10	5.02E-03
511	-0.10	1.16E-03	3327	-0.10	4.64E-03	6083	-0.10	2.19E-04	8704	-0.10	3.85E-04	11577	0.10	5.91E-03
524	0.10	3.67E-03	3340	0.10	2.38E-06	6087	0.10	3.13E-03	8705	-0.20	1.56E-04	11594	0.10	7.35E-03
526	-0.10	4.76E-03	3344	-0.10	2.62E-06	6088	0.10	2.95E-03	8720	0.10	1.66E-04	11597	-0.10	4.76E-03
528	0.10	1.33E-03	3357	0.10	3.07E-04	6092	-0.10	9.06E-03	8725	0.10	6.16E-04	11636	0.10	1.24E-03
530	-0.20	3.10E-04	3359	-0.10	5.84E-03	6109	0.10	1.07E-03	8728	-0.20	1.32E-06	11647	-0.20	9.76E-03
532	-0.10	6.26E-03	3391	0.10	6.34E-09	6117	-0.10	7.27E-04	8729	-0.10	6.17E-03	11652	-0.20	4.47E-04
537	0.10	8.92E-03	3396	-0.10	6.45E-03	6118	0.10	1.99E-07	8733	-0.10	2.30E-03	11659	-0.20	2.93E-11
543	-0.10	3.33E-04	3417	0.10	8.96E-03	6130	0.10	5.89E-03	8735	0.20	1.62E-10	11673	-0.10	1.44E-03
559	-0.10	3.14E-05	3418	0.10	2.11E-04	6131	0.10	3.81E-04	8736	0.20	1.17E-03	11717	-0.10	7.20E-06
578	0.10	5.93E-04	3439	-0.10	1.17E-03	6141	0.10	2.41E-06	8744	-0.20	1.42E-08	11719	-0.10	7.72E-04
580	-0.10	2.88E-04	3457	0.10	8.07E-03	6143	-0.20	6.05E-11	8745	-0.10	6.73E-04	11722	-0.20	3.94E-11
582	0.10	9.55E-05	3466	0.10	3.26E-04	6152	0.10	7.02E-03	8751	0.10	1.59E-03	11726	0.10	9.53E-04
586	-0.10	3.24E-03	3467	0.10	9.21E-07	6175	-0.10	2.53E-03	8754	0.10	3.35E-03	11741	-0.10	7.32E-03

597	-0.10	5.31E-03	3468	0.10	2.05E-06	6181	0.10	1.23E-03	8757	-0.10	6.19E-03	11747	0.10	2.58E-03
617	-0.10	5.76E-05	3482	-0.10	5.10E-04	6188	0.10	4.72E-03	8762	0.10	4.04E-05	11760	0.10	1.96E-03
620	-0.10	1.37E-03	3506	-0.10	6.81E-03	6201	-0.10	4.96E-05	8765	-0.10	2.48E-03	11795	-0.10	7.97E-03
624	0.10	7.09E-03	3507	0.10	7.13E-03	6212	0.10	2.52E-03	8766	0.10	5.26E-03	11799	0.10	3.43E-04
633	0.10	9.42E-05	3510	-0.20	1.99E-08	6225	0.10	4.87E-03	8773	-0.10	1.28E-03	11801	0.20	5.05E-03
647	0.10	6.30E-04	3514	-0.10	1.03E-03	6232	0.10	1.97E-05	8801	-0.10	4.03E-03	11803	-0.10	3.03E-04
648	0.10	2.27E-03	3521	-0.20	8.70E-05	6241	0.10	1.56E-03	8803	0.10	8.13E-03	11815	-0.10	2.61E-03
657	-0.10	2.52E-05	3548	-0.20	2.47E-05	6245	0.10	1.38E-03	8804	-0.10	1.13E-04	11825	-0.10	1.77E-04
707	0.20	7.27E-08	3558	-0.20	1.36E-09	6246	-0.10	6.48E-04	8814	-0.10	1.75E-03	11864	0.10	7.18E-05
711	-0.20	7.32E-04	3560	0.10	4.20E-03	6248	-0.10	7.66E-04	8824	-0.10	1.22E-03	11873	-0.10	4.33E-03
718	-0.20	3.80E-08	3582	-0.10	3.32E-06	6264	-0.10	6.87E-05	8848	-0.10	1.45E-03	11879	0.10	8.83E-03
723	-0.10	9.23E-05	3586	0.10	5.77E-03	6265	-0.10	3.31E-03	8849	-0.20	2.67E-06	11890	-0.10	6.09E-05
724	-0.10	5.02E-03	3587	0.10	8.73E-03	6267	-0.10	2.64E-03	8865	-0.10	5.48E-05	11919	-0.10	1.00E-02
735	0.10	7.08E-03	3588	-0.10	5.04E-04	6305	0.10	3.35E-04	8893	0.10	3.97E-04	11933	-0.10	6.35E-04
741	0.20	4.48E-03	3592	-0.10	1.73E-04	6315	-0.10	2.35E-03	8897	0.10	4.36E-03	11939	-0.10	1.01E-03
742	0.20	5.11E-03	3599	0.10	7.54E-05	6325	0.10	2.68E-03	8908	-0.10	1.12E-06	11943	0.10	5.02E-03
754	0.10	4.21E-03	3608	-0.10	8.82E-03	6330	-0.10	3.15E-04	8910	0.10	4.79E-03	12000	-0.10	8.35E-03
766	0.10	1.81E-05	3628	-0.10	1.65E-03	6341	-0.10	1.44E-03	8938	-0.10	2.56E-09	12061	-0.10	7.00E-03
773	0.10	1.40E-03	3630	-0.10	1.35E-04	6362	0.10	1.09E-05	8960	-0.10	3.51E-03	12067	-0.10	8.20E-03
776	0.10	2.21E-04	3642	0.10	5.20E-04	6381	-0.10	5.25E-03	8963	-0.10	6.71E-04	12071	0.20	3.90E-03
778	0.10	4.25E-03	3649	0.10	6.77E-03	6387	0.10	4.89E-03	8967	0.10	8.96E-03	12090	0.10	2.30E-03
779	-0.10	5.40E-04	3655	-0.10	2.34E-03	6396	-0.10	6.29E-05	8977	0.20	2.34E-08	12093	-0.10	1.08E-03
790	0.10	3.00E-05	3656	-0.10	9.29E-07	6402	-0.20	9.38E-06	8979	0.10	9.27E-03	12095	-0.10	1.09E-05
793	0.10	3.64E-03	3658	0.20	5.83E-06	6404	0.10	9.34E-05	8981	-0.10	4.89E-03	12110	0.20	2.83E-03
804	-0.10	3.72E-04	3666	-0.10	1.46E-03	6412	0.10	7.21E-05	8985	-0.20	3.12E-05	12117	0.10	7.94E-03
808	-0.20	6.81E-08	3673	0.10	5.08E-03	6433	-0.10	1.60E-04	8987	-0.10	8.69E-04	12132	0.10	2.31E-03
833	-0.20	9.74E-04	3683	-0.10	5.62E-04	6436	0.10	4.20E-03	8997	0.10	5.97E-03	12151	0.10	6.98E-03
838	0.10	2.27E-04	3698	0.10	6.45E-03	6439	0.20	1.70E-11	9003	0.10	6.70E-04	12183	0.10	1.10E-03
839	0.10	2.39E-04	3706	-0.10	6.61E-03	6440	0.10	1.33E-05	9006	0.10	2.15E-06	12186	0.10	9.64E-03
840	-0.20	8.30E-06	3710	-0.10	8.68E-03	6478	0.10	6.84E-03	9010	-0.10	1.65E-07	12193	-0.10	1.11E-03
850	-0.10	3.97E-04	3711	0.10	3.86E-06	6479	0.20	2.40E-12	9011	0.10	9.98E-05	12199	-0.20	1.79E-03
854	-0.10	3.52E-05	3731	0.10	2.78E-03	6486	0.10	4.97E-04	9019	-0.10	1.24E-03	12216	-0.10	2.39E-03
873	-0.10	1.75E-05	3734	0.10	9.83E-08	6502	-0.10	5.69E-03	9020	-0.10	1.20E-03	12219	-0.10	3.84E-03
875	-0.10	5.95E-04	3743	0.10	1.67E-03	6520	0.10	6.50E-03	9027	-0.10	1.70E-04	12232	0.10	2.27E-05
890	0.10	1.05E-03	3745	0.10	1.20E-03	6522	0.10	4.74E-03	9034	0.10	1.07E-03	12241	-0.20	3.71E-07
898	-0.10	1.44E-04	3753	-0.10	5.34E-05	6530	0.10	8.09E-04	9055	-0.10	7.06E-03	12257	0.10	1.80E-03
912	0.10	3.56E-03	3762	-0.20	2.35E-04	6551	-0.20	3.33E-04	9056	0.10	5.53E-03	12293	-0.10	1.90E-03
922	0.10	8.43E-03	3770	-0.10	2.98E-04	6563	-0.10	9.40E-04	9059	-0.20	1.38E-05	12300	0.20	3.58E-03
936	-0.10	9.41E-04	3776	-0.10	3.44E-04	6566	-0.10	4.40E-03	9077	0.10	1.06E-04	12308	0.10	3.81E-04
945	0.10	5.93E-03	3778	0.10	1.42E-04	6570	-0.10	2.68E-03	9081	0.10	6.52E-06	12329	0.10	1.68E-04

954	0.10	8.31E-03	3788	-0.10	4.06E-04	6583	-0.10	7.33E-07	9082	0.10	4.25E-04	12344	0.10	3.27E-04
960	-0.10	1.73E-03	3800	0.20	3.27E-03	6587	0.10	3.19E-03	9086	0.10	4.69E-03	12355	-0.10	8.51E-03
963	-0.20	2.29E-05	3801	0.10	6.81E-03	6596	-0.10	2.82E-03	9101	0.20	4.54E-09	12358	-0.10	1.90E-05
997	0.10	5.48E-03	3804	0.10	8.59E-07	6597	0.20	1.17E-03	9104	-0.10	4.69E-03	12365	-0.10	7.84E-04
1003	-0.10	1.85E-03	3810	-0.10	1.32E-03	6598	0.20	1.17E-03	9107	0.10	4.31E-06	12377	-0.10	1.11E-05
1012	0.10	6.61E-05	3818	-0.10	3.79E-03	6615	0.10	1.43E-03	9130	-0.10	9.17E-06	12378	-0.20	1.18E-03
1027	0.10	1.60E-03	3824	0.10	7.97E-04	6623	-0.20	8.54E-03	9138	0.10	1.02E-04	12379	-0.10	6.37E-05
1029	-0.10	5.64E-05	3825	0.10	3.28E-03	6626	-0.10	8.19E-03	9154	-0.10	5.72E-03	12393	0.10	1.44E-04
327														
1031	-0.10	4.77E-04	3830	-0.10	1.54E-03	6638	-0.10	9.59E-03	9165	0.10	1.51E-04	12411	0.10	8.80E-03
1049	-0.10	1.52E-03	3858	0.10	3.55E-03	6640	-0.10	9.35E-03	9171	-0.10	1.55E-03	12419	-0.10	7.48E-03
1054	-0.10	2.23E-03	3865	-0.10	1.49E-04	6644	-0.10	8.14E-04	9178	-0.10	8.64E-04	12444	-0.10	2.89E-03
1065	-0.10	6.62E-03	3884	-0.10	6.06E-04	6647	0.10	2.36E-04	9179	-0.10	1.05E-03	12469	-0.10	7.10E-03
1097	-0.10	4.58E-06	3885	0.10	1.49E-07	6649	-0.20	2.03E-03	9182	-0.10	1.28E-03	12473	0.10	1.08E-04
1110	-0.10	1.45E-03	3889	-0.20	2.79E-03	6654	-0.20	2.64E-03	9187	-0.10	4.10E-04	12482	-0.20	2.36E-05
1114	-0.10	5.78E-04	3890	-0.10	2.80E-03	6668	0.10	1.32E-04	9190	-0.10	4.82E-07	12489	-0.10	1.27E-03
1115	-0.10	7.47E-04	3894	0.10	1.37E-03	6669	0.10	7.84E-03	9200	-0.10	2.88E-04	12496	-0.10	1.64E-03
1123	0.10	9.18E-03	3902	-0.10	1.73E-03	6686	-0.10	3.18E-04	9204	0.10	4.12E-03	12498	0.10	3.80E-05
1127	0.20	8.68E-06	3907	0.10	8.06E-03	6689	-0.10	1.63E-03	9227	-0.10	3.87E-04	12499	-0.10	1.52E-03
1140	0.10	2.28E-03	3909	-0.10	1.66E-03	6697	0.20	5.03E-08	9235	-0.10	2.79E-03	12500	-0.20	1.83E-05
1167	-0.10	2.04E-04	3912	-0.10	1.55E-03	6708	-0.10	4.46E-04	9244	-0.10	8.30E-04	12503	0.10	3.26E-04
1176	0.10	3.29E-05	3924	-0.10	1.16E-03	6709	0.10	7.95E-06	9252	-0.10	2.44E-03	12506	-0.10	1.97E-04
1193	0.20	8.30E-07	3926	0.10	1.63E-05	6718	-0.10	2.21E-03	9261	0.10	1.52E-04	12509	-0.10	5.07E-04
1194	0.20	1.55E-08	3930	0.10	3.43E-03	6725	0.10	8.55E-04	9266	-0.10	9.76E-04	12518	0.10	3.18E-03
1217	0.30	3.16E-08	3945	-0.20	2.76E-05	6726	0.10	5.26E-04	9267	-0.10	2.89E-04	12521	0.10	7.46E-06
1219	-0.10	3.71E-03	3946	0.10	2.27E-06	6727	0.10	6.59E-05	9281	-0.10	2.63E-03	12523	0.10	9.62E-03
1243	0.10	3.90E-04	3951	0.10	1.67E-03	6735	0.20	3.41E-05	9289	-0.10	2.40E-03	12539	-0.10	1.46E-04
1245	0.10	2.35E-04	3957	-0.10	2.81E-05	6756	0.10	7.13E-03	9307	0.10	5.71E-04	12546	-0.20	2.72E-10
1264	0.10	1.48E-04	3964	-0.10	1.85E-03	6780	-0.10	6.29E-03	9314	0.10	3.02E-03	12591	-0.10	5.00E-03
1274	0.10	6.07E-06	3969	-0.10	1.84E-04	6785	-0.20	7.88E-05	9316	0.10	5.03E-03	12595	-0.10	6.21E-04
1278	-0.10	3.13E-03	3971	0.10	2.76E-04	6786	-0.10	2.13E-04	9318	0.10	2.51E-03	12599	0.10	1.13E-04
1279	0.10	1.77E-03	3972	0.10	5.10E-05	6790	-0.10	3.28E-03	9327	-0.20	1.02E-04	12606	-0.10	1.44E-06
1283	0.20	2.27E-05	3975	0.10	7.09E-03	6798	0.10	5.55E-03	9342	-0.20	1.03E-05	12609	-0.10	1.19E-03
1291	0.10	4.69E-05	3978	-0.10	7.02E-04	6805	0.10	1.27E-03	9347	-0.10	5.93E-07	12613	-0.20	2.72E-07
1305	0.10	7.98E-07	3992	0.10	3.77E-03	6818	-0.20	5.26E-10	9360	-0.10	1.40E-05	12615	-0.10	4.73E-03
1306	0.10	4.89E-03	3994	0.10	6.61E-03	6839	0.10	8.28E-03	9361	0.20	5.78E-11	12639	-0.20	2.74E-04
1307	0.10	8.17E-03	3996	-0.10	4.23E-05	6854	-0.10	8.83E-03	9368	0.10	8.08E-03	12658	0.10	2.26E-03
1309	0.20	1.30E-05	4017	-0.10	3.33E-04	6862	-0.20	3.49E-04	9373	0.10	4.98E-07	12665	-0.10	1.93E-03
1319	0.10	4.80E-04	4025	0.10	9.54E-04	6867	-0.10	3.69E-03	9384	-0.10	9.99E-03	12668	-0.20	1.14E-07
1329	-0.10	8.03E-04	4038	-0.10	3.93E-04	6869	-0.10	5.16E-03	9389	-0.10	8.17E-03	12675	-0.20	2.92E-07

1332	0.20	4.25E-05	4045	0.10	1.10E-03	6870	-0.20	5.07E-03	9402	-0.10	6.31E-06	12692	0.10	2.78E-03
1346	0.10	3.25E-03	4051	-0.10	9.38E-04	6876	0.10	2.11E-04	9404	-0.10	5.86E-05	12699	-0.10	5.40E-03
1359	-0.10	7.64E-03	4052	-0.10	4.74E-04	6879	-0.10	3.06E-04	9411	-0.10	4.55E-05	12725	-0.10	1.22E-04
1379	0.10	4.75E-03	4075	-0.20	5.20E-10	6885	-0.10	5.64E-03	9437	-0.20	1.48E-04	12728	-0.20	2.38E-04
1380	-0.10	9.32E-03	4080	0.10	6.69E-03	6888	-0.20	1.87E-09	9455	0.10	1.90E-03	12743	0.10	1.76E-03
1385	-0.10	7.29E-04	4084	0.10	9.64E-03	6889	0.10	1.59E-04	9472	-0.20	4.08E-06	12782	-0.10	5.22E-03
1391	0.10	1.36E-04	4098	-0.10	6.98E-08	6891	0.10	7.71E-03	9473	0.10	7.15E-03	12799	0.10	1.78E-04
1401	-0.10	1.65E-07	4121	-0.10	6.13E-04	6898	-0.10	2.14E-03	9476	-0.10	3.34E-03	12814	-0.20	1.33E-04
1410	-0.10	1.74E-04	4128	0.10	6.67E-03	6925	-0.20	8.13E-03	9485	-0.10	1.24E-07	12816	-0.20	3.76E-05
1411	0.20	8.34E-06	4156	0.10	4.24E-04	6936	-0.20	1.18E-08	9493	0.10	1.72E-04	12828	-0.10	6.50E-04
1413	-0.10	9.76E-03	4158	0.10	2.83E-03	6942	0.10	6.14E-03	9502	0.10	8.11E-03	12868	-0.10	7.42E-03
1424	-0.10	5.17E-06	4170	0.20	4.62E-08	6945	0.10	4.96E-03	9505	-0.10	2.05E-03	12885	0.10	5.41E-03
1431	0.10	3.21E-03	4175	-0.20	4.28E-04	6951	0.10	1.91E-03	9507	0.10	2.01E-04	12898	-0.10	2.58E-07
1434	0.10	8.49E-03	4182	0.10	5.03E-03	6954	-0.10	8.57E-03	9508	0.10	3.41E-07	12899	-0.10	6.19E-05
1456	-0.10	3.90E-05	4196	-0.10	4.07E-05	6976	0.10	6.73E-05	9525	-0.20	7.55E-04	12909	-0.10	1.68E-04
1464	0.10	5.52E-06	4202	0.10	2.19E-03	6985	-0.10	8.70E-03	9532	-0.10	2.27E-03	12927	-0.10	8.98E-05
1498	-0.10	3.52E-05	4205	0.10	1.78E-04	6987	0.10	4.84E-03	9538	-0.10	6.98E-03	12975	-0.10	3.11E-03
1526	-0.10	4.47E-03	4211	0.10	1.59E-03	7008	0.10	2.97E-03	9582	-0.10	8.50E-03	12981	0.10	2.81E-04
1532	-0.10	7.76E-03	4214	-0.10	8.83E-03	7025	0.10	9.10E-05	9590	0.10	1.17E-07	12998	-0.10	1.70E-03
1537	-0.10	5.25E-03	4217	0.10	4.18E-04	7044	-0.10	1.35E-04	9594	-0.10	1.21E-03	13000	-0.10	2.49E-05
1538	0.10	7.21E-03	4231	0.10	9.57E-06	7059	0.10	2.78E-03	9609	0.10	7.44E-03	13002	-0.10	2.67E-04
1541	-0.10	1.54E-03	4244	-0.20	1.17E-08	7072	-0.10	9.54E-03	9615	-0.10	1.86E-03	13010	0.10	9.29E-03
1543	0.20	3.14E-03	4245	-0.10	7.67E-04	7073	-0.10	9.54E-03	9620	-0.20	7.59E-03	13027	-0.10	3.22E-04
1545	0.10	6.53E-03	4248	-0.20	5.08E-03	7082	0.10	5.42E-04	9626	0.10	2.40E-03	13031	-0.20	2.35E-03
1547	0.10	4.78E-03	4249	0.10	2.20E-05	7084	-0.20	1.01E-05	9629	0.10	1.83E-03	13054	-0.10	1.27E-03
1563	-0.20	5.82E-03	4252	-0.10	1.19E-03	7092	0.10	2.65E-06	9630	-0.10	3.67E-03	13059	-0.10	4.71E-03
1566	0.10	9.54E-03	4259	0.10	8.99E-06	7094	0.10	6.76E-03	9638	0.10	6.18E-06	13065	-0.10	1.00E-03
1572	0.10	6.43E-03	4271	-0.20	2.60E-03	7095	0.10	7.45E-04	9641	0.10	4.23E-03	13083	-0.10	2.71E-05
1579	0.10	8.13E-03	4274	-0.10	8.57E-06	7116	0.10	1.35E-05	9656	-0.10	3.90E-04	13089	-0.10	2.52E-03
1581	0.10	5.29E-04	4279	-0.10	8.96E-04	7123	0.10	1.17E-05	9657	0.10	8.06E-03	13091	0.10	1.26E-05
1597	-0.10	5.04E-03	4285	0.10	3.60E-03	7125	0.10	7.02E-03	9660	-0.10	6.10E-03	13094	0.10	4.75E-04
1611	0.20	7.11E-03	4294	0.10	1.07E-05	7128	0.10	2.53E-03	9665	-0.10	1.84E-04	13103	-0.10	3.78E-04
328														
1615	-0.20	3.24E-03	4297	0.10	2.52E-03	7134	-0.10	2.83E-03	9681	0.20	1.34E-03	13115	-0.20	6.28E-03
1616	0.10	1.60E-03	4309	0.10	1.43E-03	7143	0.20	2.15E-05	9699	-0.10	1.93E-05	13116	0.10	7.22E-03
1620	-0.20	4.42E-10	4315	-0.20	1.75E-08	7149	0.10	2.67E-03	9703	-0.10	8.63E-03	13131	0.10	7.88E-04
1626	-0.10	2.15E-04	4336	0.10	6.41E-03	7182	-0.10	9.81E-03	9714	0.10	1.98E-05	13139	0.20	1.86E-06
1634	0.10	1.74E-03	4369	0.10	2.51E-03	7187	0.10	9.42E-03	9716	-0.10	3.96E-03	13142	-0.10	7.50E-03
1635	0.10	3.77E-04	4386	-0.10	2.08E-03	7189	0.10	5.53E-03	9733	0.10	5.21E-05	13143	0.10	3.47E-03
1637	-0.10	3.65E-03	4390	0.10	6.31E-03	7196	-0.10	4.69E-03	9748	-0.10	8.28E-03	13161	-0.10	5.08E-03

1638	0.20	2.47E-05	4391	0.10	8.46E-03	7198	-0.10	3.01E-05	9750	0.10	8.20E-05	13166	-0.20	1.97E-03
1639	-0.10	3.43E-03	4408	-0.10	4.48E-03	7199	-0.10	4.44E-05	9752	-0.20	2.22E-04	13179	-0.10	1.68E-03
1642	-0.10	5.98E-03	4410	-0.10	4.23E-03	7201	-0.10	4.40E-03	9768	0.10	7.48E-03	13184	-0.10	1.58E-03
1644	-0.10	1.14E-03	4430	0.10	5.93E-04	7203	-0.10	2.43E-03	9771	-0.10	3.43E-03	13185	0.10	1.11E-04
1659	0.20	1.48E-03	4443	-0.10	5.99E-03	7214	0.20	2.43E-03	9773	-0.10	8.40E-03	13194	0.10	1.25E-05
1661	0.10	4.76E-03	4444	-0.10	6.61E-03	7221	-0.10	1.42E-06	9802	-0.20	2.79E-03	13199	-0.10	4.54E-05
1668	0.10	4.13E-04	4450	-0.10	7.55E-03	7229	0.10	7.14E-03	9806	-0.10	6.78E-03	13201	0.10	4.14E-03
1713	0.10	3.94E-03	4455	0.10	6.13E-03	7233	-0.10	7.74E-03	9851	-0.20	2.90E-05	13207	0.10	2.66E-03
1717	-0.10	7.57E-03	4459	-0.10	2.65E-04	7247	-0.10	3.19E-03	9858	-0.10	1.18E-04	13212	0.10	7.10E-04
1718	0.10	8.30E-05	4460	-0.10	4.68E-04	7251	0.10	7.95E-03	9859	-0.10	2.36E-06	13217	0.10	8.45E-06
1722	0.10	9.89E-05	4463	-0.10	8.06E-04	7255	0.10	7.84E-03	9866	0.10	5.37E-03	13225	0.10	4.73E-03
1730	0.10	3.67E-03	4470	0.10	4.89E-03	7267	0.10	8.23E-03	9867	-0.10	1.96E-04	13239	0.20	6.42E-04
1740	0.10	4.42E-04	4472	-0.10	9.27E-07	7270	-0.10	4.51E-05	9872	-0.10	5.56E-03	13254	0.10	1.53E-03
1752	0.10	1.98E-06	4476	-0.10	2.68E-03	7271	-0.10	6.01E-03	9873	-0.10	8.08E-06	13276	0.10	4.30E-04
1759	0.10	4.11E-03	4487	0.10	4.22E-06	7289	-0.10	2.04E-03	9876	0.10	5.14E-04	13296	0.10	1.55E-04
1766	-0.20	1.17E-05	4501	0.10	6.58E-03	7296	0.20	1.03E-05	9897	0.20	6.94E-06	13298	-0.10	7.89E-03
1768	-0.10	8.81E-04	4502	-0.10	5.96E-03	7305	-0.10	8.23E-05	9899	0.10	2.83E-05	13305	-0.10	6.22E-03
1776	-0.10	9.08E-03	4515	0.10	7.12E-04	7322	-0.10	1.64E-05	9900	-0.10	6.57E-03	13323	0.10	2.67E-04
1779	-0.10	7.40E-03	4522	-0.20	1.72E-05	7329	-0.20	1.66E-04	9908	0.10	6.13E-03	13324	-0.10	2.09E-03
1792	-0.10	2.67E-03	4525	-0.10	2.49E-03	7331	0.10	8.30E-04	9917	-0.10	6.23E-03	13363	0.10	1.23E-03
1795	-0.10	2.25E-03	4533	0.10	9.07E-06	7361	0.10	1.01E-06	9922	-0.10	2.08E-03	13368	-0.20	1.21E-03
1833	-0.10	2.06E-03	4536	0.10	3.25E-03	7373	0.10	4.32E-03	9933	0.10	7.33E-03	13372	-0.10	6.41E-05
1849	0.20	2.80E-06	4541	-0.10	2.69E-05	7388	-0.10	7.07E-04	9935	-0.10	1.04E-04	13413	-0.20	3.94E-03
1865	-0.10	3.91E-04	4542	0.10	2.22E-06	7407	-0.10	8.78E-04	9936	0.10	6.51E-05	13420	-0.10	1.53E-03
1867	-0.10	1.25E-03	4543	0.20	1.10E-04	7410	0.10	4.33E-03	9942	-0.20	4.09E-04	13465	0.20	1.26E-04
1871	-0.10	2.01E-03	4544	-0.10	5.52E-03	7426	0.10	6.72E-06	9964	0.10	4.53E-03	13473	-0.20	4.52E-04
1873	0.10	2.09E-03	4554	0.10	3.60E-03	7427	-0.10	3.55E-03	9973	0.10	9.01E-03	13485	0.20	1.52E-05
1898	-0.20	7.36E-04	4560	-0.10	3.41E-03	7429	0.10	8.40E-04	9975	-0.10	5.21E-03	13495	0.10	4.92E-03
1905	-0.10	1.67E-03	4561	0.10	4.12E-03	7431	0.10	4.29E-04	9983	0.10	5.59E-03	13517	-0.10	5.96E-03
1919	0.20	5.68E-04	4569	0.10	1.06E-03	7437	0.10	5.48E-04	9995	0.10	2.77E-03	13521	0.10	1.73E-04
1922	0.10	5.52E-03	4584	0.10	6.77E-04	7441	-0.10	7.44E-06	10033	0.10	1.77E-04	13527	-0.10	3.61E-03
1939	0.10	2.73E-03	4586	-0.10	2.36E-03	7447	-0.10	7.76E-06	10036	-0.10	2.27E-04	13538	-0.10	2.48E-03
1953	-0.20	4.90E-07	4602	0.10	4.56E-03	7453	0.10	3.39E-03	10039	-0.10	5.23E-04	13552	-0.10	7.19E-03
1956	0.10	1.17E-04	4613	-0.10	3.92E-03	7464	-0.10	6.64E-03	10054	-0.10	6.03E-04	13553	0.10	3.28E-04
1981	0.20	3.39E-09	4614	0.10	8.31E-05	7467	0.10	4.88E-04	10062	-0.10	4.77E-04	13560	0.10	4.06E-04
1985	-0.20	1.81E-09	4619	-0.10	9.04E-04	7471	-0.20	7.95E-08	10080	-0.20	3.69E-06	13565	-0.10	5.37E-05
1987	-0.10	1.50E-03	4621	-0.10	2.33E-04	7476	-0.20	8.27E-04	10084	0.10	7.51E-03	13584	-0.10	3.28E-06
1996	0.20	3.71E-05	4650	0.10	7.07E-05	7477	-0.20	5.88E-10	10092	-0.20	5.89E-10	13603	0.10	5.83E-05
1999	0.10	1.00E-05	4654	-0.10	1.73E-04	7478	-0.20	2.96E-03	10094	-0.20	1.45E-03	13607	-0.10	2.97E-03
2004	0.20	4.36E-05	4662	-0.10	5.70E-03	7481	-0.10	1.74E-04	10095	0.10	6.66E-03	13615	0.10	1.04E-03

2009	-0.10	2.04E-03	4669	-0.10	5.33E-03	7486	-0.10	1.13E-03	10096	0.10	1.20E-04	13618	0.10	1.43E-03
2013	0.10	8.65E-04	4676	-0.10	8.99E-03	7496	-0.10	4.92E-03	10104	-0.10	8.90E-04	13629	0.10	1.55E-04
2037	-0.20	1.76E-06	4688	0.10	2.78E-03	7502	0.10	4.78E-04	10129	0.10	6.59E-04	13631	-0.20	1.51E-09
2042	-0.10	8.74E-03	4690	-0.10	8.56E-04	7503	-0.10	9.96E-07	10162	-0.10	2.34E-03	13637	-0.10	7.53E-03
2046	0.10	6.18E-04	4710	0.10	6.55E-03	7504	-0.20	2.24E-06	10163	-0.10	9.94E-03	13652	-0.10	6.64E-03
2075	-0.10	9.25E-05	4728	0.10	3.19E-03	7509	0.10	1.41E-07	10178	-0.10	1.49E-03	13684	-0.10	5.39E-04
2105	0.20	3.04E-06	4732	0.10	9.33E-04	7523	-0.20	7.29E-07	10188	-0.10	8.39E-04	13702	-0.10	9.65E-06
2114	-0.10	1.42E-03	4734	0.10	6.37E-03	7526	-0.10	2.83E-03	10196	-0.20	9.76E-03	13714	-0.20	1.17E-03
2120	0.10	4.66E-03	4753	-0.10	5.67E-05	7539	0.10	2.28E-04	10204	0.10	6.06E-04	13727	-0.10	4.81E-04
2126	0.10	7.70E-05	4760	-0.10	1.24E-03	7545	0.10	7.09E-03	10231	0.10	8.95E-05	13747	-0.10	2.62E-07
2130	-0.10	2.94E-03	4761	-0.10	1.08E-03	7549	-0.10	3.06E-04	10252	-0.10	5.36E-03	13766	0.10	7.55E-03
2131	-0.20	3.12E-04	4762	0.10	3.45E-03	7561	0.10	1.00E-05	10262	-0.10	1.28E-06	13783	-0.10	4.93E-07
2133	-0.10	1.50E-04	4787	-0.10	1.76E-04	7565	-0.10	8.49E-04	10268	0.10	6.93E-03	13791	0.10	3.41E-03
2145	-0.10	4.69E-03	4800	-0.20	2.68E-03	7573	0.20	3.82E-08	10269	-0.10	3.97E-03	13812	-0.10	2.93E-03
2171	0.10	2.32E-04	4819	0.10	8.83E-03	7582	-0.10	1.38E-03	10280	0.20	2.04E-07	13851	0.10	7.33E-03
2201	0.20	9.85E-10	4832	0.10	1.34E-03	7588	0.10	7.78E-03	10287	0.10	8.81E-06	13861	0.10	5.03E-03
329														
2211	0.10	4.62E-07	4847	0.10	2.19E-03	7590	0.10	3.97E-03	10291	-0.10	2.86E-05	13869	-0.10	6.43E-05
2228	-0.20	7.35E-06	4848	-0.10	7.10E-03	7599	0.20	1.16E-12	10301	0.10	2.37E-04	13885	0.10	8.92E-03
2238	-0.10	9.70E-03	4849	-0.20	7.17E-08	7605	-0.10	6.05E-04	10304	-0.10	1.75E-05	13905	0.10	8.50E-03
2239	-0.10	1.19E-04	4852	0.10	7.12E-03	7606	0.10	1.30E-03	10840	0.10	7.46E-04	10696	-0.10	8.64E-03
2243	0.10	1.91E-03	4854	-0.10	3.31E-04	7653	0.10	6.19E-04	10853	0.10	4.85E-04	10697	-0.10	9.79E-03
2247	0.10	4.94E-03	4864	-0.10	7.66E-04	7654	0.10	4.80E-04	10888	-0.10	2.28E-03	10710	-0.10	5.23E-03
2248	-0.10	2.60E-05	4880	-0.20	4.50E-03	7676	0.10	9.08E-03	10902	0.10	8.15E-05	10717	-0.10	3.74E-05
2251	-0.10	1.10E-04	4885	0.10	1.30E-04	7688	-0.10	7.49E-03	14777	-0.10	2.01E-03	10718	-0.10	1.38E-03
2261	-0.10	6.54E-04	4894	-0.10	9.88E-03	7701	0.10	4.13E-03	14783	0.10	1.75E-05	10722	0.10	3.64E-05
2268	-0.10	8.48E-03	4909	0.10	9.55E-03	7702	0.10	4.36E-04	14788	-0.10	5.12E-05	10729	0.10	5.31E-05
2285	-0.10	3.77E-03	4927	-0.10	2.68E-03	7722	-0.10	2.29E-03	14801	-0.10	2.49E-04	10738	-0.20	5.60E-05
2290	0.10	8.93E-03	4934	0.10	4.36E-03	7724	0.10	2.93E-05	14817	-0.10	3.03E-04	10752	0.10	4.08E-03
2311	0.10	4.30E-05	4942	-0.10	3.10E-03	7729	0.10	2.73E-03	14831	0.10	3.25E-04	10769	-0.10	7.95E-04
2314	0.10	6.14E-03	4943	-0.10	5.68E-03	7743	0.10	1.47E-04	14841	-0.10	2.15E-03	10777	0.20	8.64E-04
2324	-0.20	4.00E-07	4961	0.20	9.81E-04	7748	-0.20	9.26E-03	14866	-0.10	1.28E-04	10792	0.10	3.29E-03
2327	0.20	5.87E-03	4964	-0.10	7.08E-03	7750	0.10	4.32E-04	14886	0.10	3.46E-03	10801	-0.10	5.95E-06
2328	0.10	2.80E-03	4965	-0.10	4.99E-04	7751	0.10	6.30E-04	14899	0.10	8.33E-04	10815	-0.10	1.21E-03
2330	0.10	7.97E-03	4973	-0.10	2.98E-04	7754	0.10	3.94E-03	14904	0.10	1.62E-04	10821	0.10	6.48E-03
2355	0.10	2.11E-03	4974	0.10	7.38E-04	7782	-0.10	5.76E-05	14915	0.10	1.83E-03	11973	0.24	5.00E-02
2357	-0.10	1.89E-03	4982	0.10	5.67E-03	7791	0.10	7.27E-03	14948	0.10	8.83E-03	12088	0.20	5.00E-02
2360	-0.10	1.69E-06	4996	-0.10	4.43E-03	7804	-0.10	6.32E-03	14957	-0.10	2.12E-05	12109	-0.21	5.00E-02
2362	-0.10	4.84E-03	5000	-0.10	1.27E-03	7816	-0.10	7.11E-03	14973	0.10	2.54E-03	12124	0.29	5.00E-02
2389	-0.10	6.12E-06	5047	0.20	3.88E-03	7822	-0.20	3.07E-11	14975	-0.10	2.06E-03	12434	-0.07	5.00E-02

2393	-0.10	1.90E-04	5048	0.10	1.26E-04	7834	0.10	9.96E-04	14983	-0.20	8.13E-04	12703	-0.28	5.00E-02
2401	0.10	2.52E-04	5061	-0.20	5.08E-05	7837	-0.10	1.22E-03	15018	-0.10	1.59E-03	12817	-0.40	5.00E-02
2405	0.10	6.83E-03	5069	0.10	1.49E-05	7841	0.10	2.98E-03	15022	-0.10	6.60E-03	12883	0.14	5.00E-02
2408	0.10	1.45E-05	5079	0.10	2.63E-03	7869	-0.20	4.59E-03	15032	-0.20	6.26E-04	12916	0.04	5.00E-02
2421	-0.10	1.75E-04	5093	-0.10	3.41E-04	7876	-0.10	9.18E-03	15042	-0.10	5.01E-04	12971	0.15	5.00E-02
2426	-0.10	9.74E-03	5098	0.10	1.31E-03	7877	-0.10	3.41E-03	15043	-0.10	2.60E-05	13147	-0.40	5.00E-02
2437	-0.10	3.67E-07	5101	0.10	4.85E-05	7879	-0.10	3.38E-04	15048	0.10	8.59E-04	13237	0.10	5.00E-02
2446	0.10	3.35E-05	5116	-0.10	1.24E-04	7885	0.10	5.05E-03	15077	0.10	2.46E-04	13463	-0.18	5.00E-02
2453	-0.10	1.70E-03	5121	0.10	4.05E-04	7894	0.10	3.74E-04	15105	-0.10	3.03E-04	13513	-0.11	5.00E-02
2466	-0.20	2.76E-11	5134	-0.10	1.16E-05	7908	-0.10	2.29E-03	15115	-0.10	8.93E-04	13579	0.13	5.00E-02
2470	-0.20	4.69E-05	5169	0.10	1.84E-03	7914	0.10	1.85E-04	15149	0.20	1.29E-04	13695	0.08	5.00E-02
2472	-0.10	3.59E-04	5177	-0.10	7.28E-03	7929	-0.10	2.55E-04	15166	-0.20	5.74E-03	13933	0.25	5.00E-02
2473	-0.20	4.02E-06	5197	-0.10	1.11E-04	7939	0.10	3.63E-04	15175	0.20	6.14E-03	13992	0.52	5.00E-02
2489	0.10	7.28E-03	5198	-0.20	2.43E-05	7940	0.10	1.46E-07	15182	0.10	2.09E-05	14388	-0.23	5.00E-02
2491	0.10	5.58E-04	5201	0.10	2.97E-04	7963	0.10	1.09E-03	15206	0.20	1.54E-07	14723	0.03	5.00E-02
2494	0.10	4.10E-03	5219	0.10	3.92E-04	7965	0.10	1.25E-03	15209	-0.10	4.63E-07	14745	-0.03	5.00E-02
2514	-0.10	9.47E-05	5220	0.10	6.61E-03	8009	-0.10	2.81E-03	15211	-0.10	7.19E-03	14879	0.41	5.00E-02
2521	-0.10	4.02E-03	5221	0.10	4.02E-04	8014	0.10	6.45E-04	15216	-0.10	5.49E-03	14896	-0.19	5.00E-02
2547	-0.10	4.08E-05	5230	0.10	7.13E-05	8016	-0.10	6.15E-03	15232	-0.10	7.93E-03	14951	0.05	5.00E-02
2550	-0.20	8.68E-05	5234	-0.10	2.88E-03	8026	0.10	4.08E-03	15239	0.20	7.72E-08	14987	-0.21	5.00E-02
2571	-0.10	1.81E-03	5235	-0.10	7.21E-03	8028	-0.10	5.12E-04	15243	-0.10	5.96E-03	14994	0.34	5.00E-02
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0.12	0.15	0.15
-0.13	-0.15	-0.15
-0.09	0.13	0.13
-0.10	-0.08	-0.08
-0.08	0.07	0.07
0.12	-0.17	-0.17
-0.11	-0.14	-0.14
-0.16	-0.20	-0.20
-0.19	0.11	0.11
-0.19	-0.26	-0.26
0.11	-0.14	-0.14
-0.15	-0.15	-0.15
-0.11	-0.09	-0.09
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-0.09	0.12	0.12
0.12	0.09	0.09
-0.17	-0.07	-0.07
0.15	0.09	0.09
-0.13	-0.20	-0.20
-0.27	-0.17	-0.17
0.07	-0.09	-0.09
-0.25	0.07	0.07
-0.07	-0.10	-0.10
0.09	-0.12	-0.12
-0.16	-0.13	-0.13
-0.17	-0.13	-0.13
0.14	-0.20	-0.20
0.12	-0.14	-0.14
0.12	-0.11	-0.11
0.09	0.24	0.24

0.10	0.08	0.08	
0.12	-0.27	-0.27	
0.07	-0.24	-0.24	
0.11	-0.21	-0.21	
0.16	0.15	0.15	
-0.18	-0.20	-0.20	
-0.16	-0.09	-0.09	
0.10	-0.11	-0.11	
0.10	0.08	0.08	
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-0.16	-0.24	-0.24	
-0.24	-0.12	-0.12	
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0.07	-0.14	-0.14	-0.14
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0.08	-0.10	-0.10	-0.10
-0.14	0.10	0.10	0.10
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0.13	0.09	0.09	0.09
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-0.18	0.08	0.08	0.08
-0.22	-0.24	-0.24	-0.24
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-0.21	-0.21	-0.21	-0.21
0.17	-0.13	-0.13	-0.13
0.19	-0.12	-0.12	-0.12
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0.12	-0.07	-0.07	-0.07
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	-0.11	-0.11	-0.11
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	0.10	0.10	0.10
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	-0.16	-0.16	-0.16
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	0.14	0.14	0.14
	0.19	0.19	0.19
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	0.09	0.09	0.09
	0.08	0.08	0.08
	0.10	0.10	0.10
	0.07	0.07	0.07
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	-0.14	-0.14	-0.14
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	-0.17	-0.17	-0.17
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3613	0.20	2.05E-07
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3617	0.30	2.94E-04
3618	0.40	4.75E-17
3621	-0.30	1.66E-04
3622	-0.30	3.67E-03
3625	0.30	8.04E-17
3631	-0.30	2.73E-12
3632	-0.10	6.95E-03
3636	-0.30	1.40E-07
3647	-0.10	5.45E-03
3649	0.20	7.10E-06
3652	-0.40	1.57E-03
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3656	-0.10	5.23E-03
3658	0.40	6.37E-10
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3666	-0.20	1.04E-03
3667	0.30	1.03E-10
3668	0.30	2.38E-11
3673	0.50	1.88E-09
3683	-0.30	4.92E-11
3690	0.10	2.22E-03
3693	-0.10	7.86E-03
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3772	-0.40	2.00E-09
3776	-0.40	1.11E-14
3777	-0.40	9.72E-05
3779	0.20	1.09E-07
3780	0.30	5.63E-12
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3786	-0.20	4.11E-04
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3792	-0.20	1.70E-03
3793	-0.20	5.00E-07
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3797	-0.50	1.21E-13
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3801	0.20	3.08E-05
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3805	0.20	8.75E-05
3808	-0.20	2.46E-05
3810	-0.20	2.46E-07
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3884	-0.50	2.08E-22
3885	0.30	4.16E-12

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3983	0.20	4.94E-04
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3996	-0.20	5.24E-03
3998	-0.30	6.92E-03
4001	0.30	6.16E-05
4002	-0.20	3.50E-05
4011	0.20	1.28E-05
4015	0.30	1.13E-13
4017	-0.30	3.18E-06
4021	0.30	3.20E-05
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4023	-0.20	7.88E-03
4025	0.40	1.59E-24
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4028	-0.30	3.20E-04
4031	-0.30	6.71E-04
4032	0.40	9.18E-17
4039	0.10	1.68E-03
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4043	0.10	2.21E-04
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4050	0.20	3.46E-06
4051	-0.40	3.39E-22
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4060	0.30	1.34E-13
4061	0.30	2.29E-13
4065	-0.40	1.17E-04
4070	-0.30	1.02E-11

3713	0.20	8.78E-06	3886	0.40	3.73E-17	4075	-0.40	1.47E-23
3714	-0.10	1.68E-05	3889	-0.50	2.79E-05	4076	-0.60	2.73E-11
3722	0.20	1.46E-07	3900	-0.20	4.66E-08	4077	-0.10	2.48E-03
3723	-0.40	1.35E-03	3902	-0.40	1.18E-10	4079	0.30	2.58E-05
3728	0.40	1.17E-13	3909	-0.20	5.87E-04	4081	0.20	2.23E-06
3729	-0.30	5.20E-10	3910	0.20	3.78E-05	4084	0.40	2.37E-16
3730	0.10	2.26E-04	3914	-0.50	6.49E-22	4091	-0.50	5.86E-03
3731	0.10	1.23E-03	3917	0.20	4.87E-07	4096	0.40	1.23E-11
3734	0.30	9.82E-14	3918	-0.30	7.67E-06	4097	-0.20	6.65E-05
3735	-0.30	1.93E-05	3922	-0.20	3.30E-08	4098	-0.30	1.32E-08
3740	-0.20	8.49E-05	3925	0.30	5.17E-05	4106	-0.20	6.99E-08
3742	-0.20	9.53E-03	3926	0.30	1.26E-11	4119	0.20	8.35E-03
3745	0.10	9.14E-03	3927	-0.40	1.40E-14	4120	-0.30	3.33E-08
3749	-0.30	4.69E-08	3928	-0.10	9.65E-03	4121	-0.50	1.35E-16
3750	-0.10	3.16E-03	3929	0.20	1.16E-05	4122	-0.30	7.09E-08
3752	-0.20	1.72E-07	3931	0.20	3.01E-04	4130	0.20	1.10E-07
277								
3753	-0.30	2.56E-11	3937	-0.20	3.12E-06	4131	-0.30	4.72E-03
3755	0.20	6.87E-03	3938	0.30	5.02E-08	4134	-0.30	1.16E-08
3759	-0.40	1.20E-11	3940	0.20	6.31E-06	4135	-0.20	9.26E-03
4724	-0.10	3.71E-03	3945	-0.40	7.48E-06	4137	0.20	1.97E-04
4728	0.30	9.13E-08	3946	0.60	1.87E-39	4155	0.30	7.30E-10
4731	-0.30	1.24E-03	3947	-0.20	2.20E-06	4156	0.40	4.56E-20
4732	0.10	1.76E-03	4936	-0.20	4.54E-04	5121	0.20	5.03E-03
4746	0.30	1.10E-09	4937	0.20	3.19E-05	5124	-0.30	1.73E-08
4753	-0.10	3.90E-04	4938	0.20	7.51E-09	5125	0.20	1.56E-07
4756	0.20	7.60E-09	4942	-0.10	3.91E-03	5132	0.20	1.28E-06
4757	-0.10	3.07E-03	4946	-0.20	3.14E-04	5133	-0.40	3.76E-06
4758	-0.40	1.69E-11	4951	0.20	7.71E-07	5134	-0.50	5.77E-31
4760	-0.40	1.28E-11	4953	0.20	3.47E-05	5138	-0.10	2.23E-03
4761	-0.40	1.13E-11	4958	0.10	8.80E-04	5141	0.20	9.10E-04
4762	0.20	7.09E-07	4970	-0.30	5.60E-07	5142	0.20	7.74E-03
4764	0.20	6.17E-04	4973	0.20	7.80E-08	5145	-0.30	1.14E-07
4770	-0.20	3.00E-05	4974	0.20	4.01E-05	5148	-0.30	1.20E-06
4771	-0.50	3.58E-09	4976	-0.40	2.92E-05	5149	-0.20	7.30E-05
4774	0.20	8.46E-05	4977	-0.20	1.85E-03	5152	0.10	4.03E-04
4778	-0.20	8.88E-03	4978	-0.40	7.96E-03	5155	-0.60	3.85E-04
4780	0.30	3.31E-10	4982	-0.20	1.09E-03	5164	-0.10	9.63E-03
4781	0.30	7.06E-08	4986	-0.20	7.91E-05	5165	0.30	6.58E-07
4786	-0.30	4.03E-06	4987	-0.60	8.22E-04	5166	-0.20	1.57E-03

4788	0.20	1.85E-04
4789	-0.30	1.54E-07
4795	0.20	1.35E-03
4796	-0.20	6.05E-05
4800	-0.50	1.32E-08
4801	-0.20	7.50E-05
4803	0.20	1.35E-04
4807	0.40	5.00E-16
4808	-0.30	4.43E-10
4813	-0.20	1.23E-04
4816	-0.20	1.97E-03
4821	-0.30	4.76E-06
4827	0.50	7.50E-15
4831	-0.10	6.50E-03
4832	0.10	3.58E-03
4834	-0.80	4.69E-08
4835	0.20	9.14E-05
4846	-0.10	3.25E-03
4848	-0.20	5.76E-04
4849	-0.30	9.61E-08
4854	-0.20	8.12E-04
4857	-0.20	2.44E-05
4858	-0.20	3.06E-06
4863	-0.20	1.93E-04
4864	-0.30	1.47E-09
4871	-0.20	5.01E-05
4873	0.20	1.05E-04
4877	0.10	1.37E-03
4878	-0.20	2.37E-03
4879	-0.20	6.92E-04
4880	-0.30	5.09E-03
4885	0.20	2.91E-07
4887	-0.30	1.00E-03
4890	-0.30	1.25E-04
4893	0.20	3.02E-06
4894	-0.30	5.02E-10
4898	0.20	5.45E-14
4905	-0.40	4.63E-10
4909	-0.20	5.95E-05
4911	0.30	2.05E-09

4991	-0.30	9.78E-08
4996	-0.50	1.03E-11
4999	0.10	1.54E-03
5003	-0.60	1.52E-08
5004	-0.30	1.48E-03
5005	-0.30	1.47E-03
5010	-0.40	4.34E-08
5013	0.20	2.99E-09
5016	-0.20	2.06E-08
5025	0.30	7.11E-16
5028	-0.20	1.34E-05
5034	0.10	7.25E-03
5035	-0.20	1.67E-04
5036	0.20	3.39E-07
5037	-0.20	8.11E-04
5042	0.10	1.47E-03
5043	0.10	2.55E-03
5046	-0.20	6.09E-06
5047	0.30	1.38E-03
5057	-0.40	6.30E-10
5060	0.20	4.15E-07
5061	-0.50	1.35E-10
5063	-0.50	6.14E-09
5066	-0.20	4.27E-04
5069	0.40	6.03E-15
5070	0.40	3.41E-13
5071	0.10	1.65E-03
5074	-0.40	7.99E-04
5075	0.10	7.20E-03
5078	-0.20	2.79E-08
5079	0.30	3.21E-13
5083	0.20	1.23E-06
5086	0.40	7.74E-22
5088	0.20	1.65E-08
5093	-0.30	1.08E-11
5094	0.40	2.94E-10
5095	-0.20	9.17E-04
5097	0.30	5.55E-04
5098	0.20	1.24E-04
5102	-0.50	2.36E-04

5169	0.20	4.24E-03
5172	-0.30	2.68E-08
5175	-0.20	6.67E-03
5176	-0.50	6.68E-08
5179	-0.50	8.56E-06
5183	-0.30	6.59E-03
5186	0.20	6.98E-04
5204	-0.30	1.71E-07
5205	-0.20	9.44E-03
5207	0.40	3.12E-10
5209	0.10	1.99E-03
5211	0.20	6.35E-05
5219	0.30	7.26E-11
5223	0.20	7.63E-06
5229	-0.30	1.09E-03
5230	0.30	9.14E-15
5235	-0.40	2.54E-12
5239	-0.30	7.85E-07
5241	-0.20	1.93E-04
5242	0.10	1.94E-03
5247	0.30	1.61E-08
5249	-0.20	2.10E-05
5251	-0.10	1.65E-03
5252	-0.10	1.14E-03
5253	0.10	4.49E-03
5255	0.20	5.70E-05
5261	-0.20	1.36E-07
5262	0.30	6.21E-06
5267	-0.40	2.92E-04
5273	-0.30	3.15E-09
5274	-0.30	1.90E-09
5275	-0.50	1.27E-19
5276	-0.30	6.05E-03
5278	0.30	9.00E-06
5283	0.10	6.36E-03
5285	-0.50	1.13E-17
5291	0.30	4.84E-04
5293	-0.20	5.32E-03
5294	0.20	1.14E-03
5295	-0.30	2.09E-05

278								
4916	-0.20	9.67E-04	5109	0.10	3.94E-03	5302	-0.30	4.47E-12
4917	0.20	3.33E-04	5111	-0.30	1.66E-03	5306	-0.20	7.60E-03
4920	0.20	2.94E-04	5114	0.20	5.77E-05	5307	0.10	8.00E-03
4934	0.20	1.55E-05	5115	-0.30	2.47E-06	5308	-0.30	7.47E-09
5850	0.10	1.44E-03	5116	-0.20	7.81E-05	5316	0.20	6.35E-04
5856	0.40	2.04E-18	5117	0.30	2.98E-04	5317	0.50	3.63E-26
5857	0.10	1.13E-03	5118	0.10	8.72E-03	5321	0.20	1.23E-04
5861	0.20	2.25E-04	6024	0.20	1.18E-04	6239	-0.30	3.85E-10
5868	0.40	1.16E-20	6030	-0.20	5.17E-04	6240	-0.20	5.80E-03
5873	-0.20	4.75E-03	6031	0.20	6.39E-07	6241	0.10	2.08E-03
5875	-0.40	1.88E-13	6033	-0.50	1.09E-12	6245	0.30	5.89E-17
5876	-0.20	7.44E-04	6035	0.30	4.34E-07	6246	-0.20	5.45E-04
5879	0.10	4.80E-03	6036	-0.40	2.06E-14	6248	-0.40	1.88E-05
5880	0.20	1.70E-05	6037	-0.20	1.29E-03	6249	0.50	1.46E-27
5883	-0.20	4.69E-03	6052	-0.30	7.39E-07	6250	-0.40	1.28E-17
5884	-0.30	1.86E-10	6058	-0.10	4.17E-03	6253	-0.40	5.76E-21
5887	-0.50	9.44E-10	6066	0.20	8.87E-05	6257	-0.40	1.29E-04
5896	0.10	6.62E-03	6068	0.30	1.45E-09	6258	-0.40	1.15E-10
5897	-0.40	1.89E-18	6069	-0.10	2.90E-03	6261	0.30	3.04E-16
5898	-0.30	1.42E-04	6071	0.10	5.35E-03	6263	-0.20	2.79E-05
5900	-0.30	2.37E-03	6074	-0.10	6.41E-03	6264	-0.40	2.36E-06
5901	-0.30	7.15E-09	6075	-0.10	3.79E-03	6266	-0.30	1.43E-03
5904	0.10	1.74E-03	6077	0.20	3.36E-04	6267	-0.50	1.29E-11
5906	0.20	4.94E-06	6078	0.20	4.28E-04	6272	-0.20	3.49E-05
5910	-0.30	1.53E-04	6081	0.10	2.67E-03	6280	-0.20	5.69E-04
5914	0.50	1.32E-25	6086	-0.30	3.86E-10	6284	0.30	1.06E-11
5916	0.30	6.04E-08	6087	-0.20	7.00E-05	6285	0.20	3.61E-07
5918	-0.20	4.73E-04	6088	-0.20	4.78E-05	6286	-0.30	4.88E-03
5921	-0.40	4.87E-08	6089	-0.20	3.62E-07	6291	0.30	5.43E-06
5922	-0.40	1.84E-07	6094	0.20	1.04E-03	6293	0.20	3.52E-04
5924	-0.20	5.98E-05	6095	0.20	3.68E-04	6294	-0.20	1.09E-07
5929	-0.30	5.98E-10	6102	-0.20	5.37E-06	6297	0.10	6.20E-03
5930	-0.50	2.00E-23	6103	-0.30	2.44E-09	6303	0.20	6.56E-07
5931	0.30	2.77E-05	6104	-0.20	1.23E-07	6304	0.20	3.17E-07
5933	-0.40	3.39E-07	6105	0.30	2.47E-11	6305	0.30	1.15E-08
5937	0.20	1.78E-03	6110	-0.30	8.58E-05	6307	-0.20	1.60E-04
5942	0.30	9.03E-06	6112	-0.30	6.23E-11	6310	0.30	4.01E-11
5946	-0.10	5.81E-03	6117	-0.30	4.89E-10	6318	-0.30	2.42E-08
5952	-0.10	2.44E-03	6118	0.30	3.10E-11	6321	0.10	6.83E-04

5955	0.30	1.74E-07	6127	-0.40	9.60E-08	6325	0.20	7.00E-04
5956	-0.40	3.29E-04	6131	0.20	2.93E-08	6328	-0.10	2.21E-03
5957	-0.20	9.99E-03	6134	-0.30	7.45E-13	6329	-0.20	2.02E-03
5966	0.20	5.56E-09	6135	-0.50	4.43E-08	6330	-0.30	1.17E-08
5968	-0.30	2.35E-09	6136	-0.20	7.43E-08	6333	0.10	9.11E-03
5969	-0.20	6.26E-05	6137	-0.20	1.16E-07	6337	-0.40	3.91E-16
5970	0.20	1.03E-05	6141	0.40	5.10E-15	6340	-0.40	9.40E-10
5971	0.40	3.94E-17	6142	-0.10	2.70E-03	6345	0.10	5.37E-04
5973	0.20	1.70E-07	6143	-0.30	2.02E-11	6346	-0.30	4.41E-04
5975	0.10	1.70E-03	6147	-0.30	1.62E-04	6348	0.10	7.82E-03
5978	-0.20	4.90E-05	6148	-0.40	2.59E-03	6349	-0.10	2.24E-03
5979	0.30	2.86E-08	6152	0.30	3.33E-10	6351	-0.30	5.97E-09
5986	0.10	8.67E-04	6158	-0.20	4.38E-06	6352	-0.40	3.23E-08
5989	0.10	4.62E-05	6161	-0.20	2.09E-04	6356	0.20	1.52E-04
5990	-0.20	2.56E-06	6172	0.30	2.75E-11	6359	-0.20	1.61E-04
5992	-0.20	6.75E-08	6177	0.20	3.38E-06	6360	-0.50	2.88E-05
5993	-0.20	8.30E-04	6181	0.20	8.08E-05	6361	0.20	2.57E-04
5994	0.20	3.16E-05	6186	0.20	5.20E-04	6362	0.10	8.68E-03
5995	0.20	2.39E-05	6187	0.10	2.46E-03	6365	-0.20	1.66E-06
5996	0.20	6.53E-05	6188	0.30	2.50E-05	6366	-0.20	1.92E-05
5997	0.20	8.33E-05	6194	0.30	1.72E-04	6369	0.20	9.91E-05
5998	-0.20	1.61E-06	6200	0.20	9.84E-06	6373	0.30	4.95E-15
5999	-0.10	3.90E-03	6201	-0.20	4.66E-05	6374	-0.20	4.44E-04
6002	-0.10	8.86E-03	6203	0.20	6.90E-05	6375	0.30	7.11E-06
279								
6005	-0.20	2.55E-06	6204	-0.50	1.43E-11	6376	0.30	5.55E-14
6006	-0.20	5.29E-05	6214	0.20	8.30E-07	6377	0.20	2.24E-05
6013	-0.50	1.92E-05	6219	0.30	4.11E-09	6381	0.40	1.28E-16
6015	-0.20	1.18E-04	6221	0.10	1.98E-03	6382	-0.20	5.40E-04
6016	-0.30	7.98E-11	6229	-0.20	2.46E-06	6385	-0.20	2.16E-05
6953	0.50	6.00E-34	6230	0.20	2.00E-04	6388	-0.30	1.39E-05
6954	-0.20	1.30E-03	6234	-0.10	8.55E-03	6394	0.20	1.67E-06
6955	-0.30	6.65E-03	6238	0.10	4.09E-03	6396	-0.20	4.73E-06
6961	0.30	1.17E-04	7181	-0.50	7.21E-04	7358	0.20	5.39E-03
6962	0.30	5.50E-12	7187	0.30	4.39E-05	7359	-0.44	2.92E-03
6967	-0.20	1.66E-04	7188	-0.20	3.01E-04	7360	-0.22	4.42E-04
6976	0.30	2.24E-13	7189	0.40	5.40E-13	7361	0.22	1.19E-06
6991	-0.20	5.21E-03	7190	0.10	5.49E-03	7362	-0.28	6.90E-07
6996	0.30	7.29E-17	7193	0.30	5.32E-04	7367	-0.27	4.60E-08
6998	-0.40	2.01E-09	7195	-0.50	4.99E-19	7374	0.40	2.35E-20

6999	-0.40	1.09E-17	7197	-0.30	6.05E-08	7376	0.22	5.38E-07
7004	0.10	4.81E-03	7198	-0.30	1.09E-04	7386	-0.18	5.82E-05
7011	-0.30	2.00E-06	7199	-0.40	2.16E-11	7388	-0.28	3.22E-09
7012	-0.30	1.66E-06	7201	-0.30	2.54E-04	7390	0.41	5.83E-10
7020	-0.20	4.68E-06	7202	-0.20	4.50E-03	7396	0.17	1.82E-04
7021	0.20	8.99E-04	7204	0.20	2.90E-05	7401	0.12	7.83E-03
7023	-0.20	2.80E-03	7208	-0.30	2.64E-05	7403	-0.39	7.54E-10
7027	-0.40	3.11E-07	7218	-0.30	1.80E-13	7404	-0.40	4.47E-10
7028	0.40	1.09E-10	7219	-0.30	7.60E-08	7406	0.25	3.90E-05
7035	-0.20	2.26E-04	7223	-0.30	3.00E-08	7407	0.12	6.85E-03
7036	-0.20	2.23E-04	7225	-0.30	3.93E-03	7410	0.15	1.58E-03
7044	-0.30	8.29E-08	7227	0.20	2.74E-06	7414	0.14	1.64E-05
7048	-0.40	1.92E-06	7228	0.20	9.90E-07	7416	-0.18	1.18E-04
7051	-0.20	3.27E-03	7229	0.20	9.25E-06	7421	-0.14	1.88E-03
7053	-0.20	4.31E-08	7231	0.20	2.79E-09	7424	0.33	2.14E-10
7056	-0.20	1.86E-05	7232	-0.40	8.14E-22	7426	0.30	9.37E-12
7063	0.10	1.84E-03	7233	0.30	1.08E-08	7427	-0.27	1.82E-04
7064	0.10	4.00E-03	7238	-0.20	3.23E-05	7429	0.34	2.40E-12
7072	-0.20	8.25E-08	7239	-0.40	5.10E-04	7430	-0.28	2.66E-09
7073	-0.20	8.25E-08	7240	0.10	9.59E-03	7431	0.26	2.87E-07
7077	0.30	2.73E-04	7245	0.20	7.75E-07	7434	0.28	2.63E-13
7079	0.20	1.75E-09	7247	-0.20	1.17E-05	7441	-0.23	2.37E-06
7082	0.30	7.82E-09	7248	-0.10	8.09E-03	7443	-0.36	1.46E-03
7084	-0.40	3.30E-05	7251	0.20	1.37E-05	7447	-0.16	3.56E-04
7086	-0.40	4.79E-15	7255	0.40	1.02E-07	7448	-0.43	5.26E-23
7088	-0.20	2.73E-03	7263	0.10	1.40E-03	7449	-0.20	8.63E-05
7092	0.20	1.46E-05	7269	0.30	1.03E-10	7450	-0.34	1.98E-06
7093	0.20	7.75E-03	7270	-0.30	1.38E-08	7453	-0.18	5.61E-05
7095	0.20	9.68E-03	7271	-0.30	7.30E-10	7454	-0.19	4.62E-05
7101	-0.20	1.27E-05	7275	-0.60	5.08E-04	7460	0.39	3.67E-17
7106	0.10	5.39E-03	7278	0.20	2.77E-03	7464	-0.30	2.41E-06
7108	-0.40	5.89E-06	7279	-0.40	1.25E-17	7468	0.18	4.65E-05
7112	-0.10	4.85E-03	7280	-0.10	8.22E-03	7471	-0.22	4.13E-06
7116	0.30	2.14E-14	7285	0.30	3.16E-06	7476	-0.39	1.93E-05
7122	-0.40	1.92E-04	7289	0.20	3.63E-07	7477	-0.16	2.27E-04
7123	0.20	2.65E-04	7291	-0.10	4.89E-03	7478	-0.58	2.84E-07
7126	-0.40	8.50E-03	7293	-0.10	8.27E-03	7486	-0.17	2.77E-04
7128	0.40	6.96E-19	7300	0.20	1.00E-05	7493	0.31	1.13E-11
7129	-0.20	1.53E-07	7304	-0.20	7.29E-04	7494	0.15	1.69E-03
7130	0.20	3.59E-04	7305	-0.20	9.13E-04	7495	-0.16	8.29E-03

7135	0.20	1.36E-03	7310	-0.20	9.02E-06	7496	-0.23	4.12E-06
7136	0.20	3.41E-03	7311	-0.30	4.65E-07	7498	0.19	2.18E-04
7139	-0.30	5.07E-07	7313	0.30	3.80E-09	7499	-0.25	2.51E-03
7140	-0.50	7.93E-07	7315	-0.30	1.21E-07	7503	-0.26	2.64E-06
7143	0.30	1.07E-03	7316	-0.20	3.36E-04	7504	-0.51	2.33E-09
7149	0.40	5.98E-14	7317	-0.20	8.93E-04	7506	-0.24	3.95E-08
7150	0.20	1.09E-04	7319	-0.20	6.49E-03	7507	-0.40	4.73E-12
7151	0.20	9.95E-05	7322	-0.20	8.80E-08	7508	-0.28	1.21E-03
280								
7161	-0.20	3.74E-05	7323	-0.30	2.74E-04	7509	0.27	1.14E-10
7162	0.20	1.04E-04	7324	-0.20	8.27E-03	7515	-0.50	8.75E-15
7165	-0.30	2.32E-04	7329	-0.60	2.61E-07	7516	-0.47	1.38E-14
7166	-0.30	1.27E-07	7331	0.50	2.86E-10	7523	-0.20	5.75E-04
7167	0.10	9.40E-03	7335	-0.20	3.50E-04	7527	0.25	8.70E-06
7175	-0.20	1.85E-04	7340	-0.30	9.22E-06	7530	0.18	4.57E-04
8094	0.50	1.13E-27	7345	0.20	4.04E-05	7532	-0.25	2.78E-05
8098	0.13	6.61E-03	7350	0.10	1.81E-03	7533	0.19	5.24E-05
8100	0.16	1.58E-03	7357	0.40	2.84E-13	7537	0.14	1.06E-05
8102	-0.24	2.70E-08	8277	-0.32	2.15E-03	8427	0.16	4.06E-03
8105	0.35	6.18E-11	8280	-0.12	2.69E-03	8433	-0.29	3.74E-09
8107	0.30	1.06E-05	8281	-0.20	3.69E-03	8434	-0.53	9.30E-05
8110	-0.28	6.75E-05	8285	0.18	4.69E-05	8436	-0.16	5.74E-03
8111	-0.55	6.84E-31	8286	0.31	3.23E-03	8446	-0.26	1.37E-08
8117	0.15	9.05E-04	8287	-0.29	8.47E-11	8451	-0.36	2.84E-11
8119	-0.35	1.03E-15	8289	-0.41	4.66E-18	8454	-0.50	4.57E-24
8127	0.36	4.70E-18	8300	-0.32	4.67E-08	8455	0.21	2.50E-06
8132	-0.21	5.19E-05	8308	0.27	3.39E-04	8457	0.27	2.25E-04
8133	-0.20	2.09E-05	8309	-0.16	8.08E-03	8460	-0.20	2.23E-04
8134	0.36	1.57E-11	8312	0.25	2.30E-08	8464	0.20	3.78E-06
8142	-0.24	5.57E-07	8318	-0.24	1.02E-07	8466	0.38	3.71E-17
8143	-0.23	6.81E-07	8319	0.11	9.63E-03	8467	0.34	1.11E-16
8146	0.19	5.69E-06	8321	-0.33	3.48E-06	8476	-0.16	3.41E-04
8147	0.27	5.62E-10	8323	-0.19	3.48E-04	8477	-0.16	2.94E-04
8149	0.24	1.23E-08	8325	-0.21	2.45E-03	8478	-0.15	5.23E-04
8150	0.49	2.16E-17	8330	0.12	4.10E-03	8484	-0.47	1.18E-11
8161	0.28	6.20E-11	8332	-0.33	9.74E-08	8485	0.17	6.06E-04
8163	-0.29	3.99E-12	8333	0.26	4.07E-09	8486	0.12	9.55E-03
8166	0.28	3.48E-10	8334	-0.20	3.66E-04	8488	0.19	8.96E-08
8168	-0.26	7.35E-09	8336	-0.25	8.55E-06	8489	-0.33	2.51E-08
8173	0.17	1.92E-04	8338	-0.15	4.85E-04	8490	-0.44	2.34E-05

8174	0.23	4.54E-04
8176	-0.22	4.09E-04
8183	-0.16	2.22E-03
8184	-0.15	5.27E-03
8188	0.24	1.09E-08
8189	-0.28	4.92E-08
8190	-0.24	3.55E-03
8192	0.46	3.41E-22
8193	0.15	1.95E-03
8194	-0.32	4.99E-07
8196	-0.21	2.10E-05
8206	-0.12	6.18E-03
8208	0.12	1.78E-04
8210	0.30	1.14E-04
8212	-0.34	5.24E-07
8213	0.14	4.51E-03
8219	0.30	4.78E-06
8220	-0.25	3.53E-04
8224	-0.24	1.42E-04
8228	0.21	4.30E-06
8233	-0.42	7.81E-21
8235	-0.26	1.56E-10
8237	0.25	1.32E-06
8238	0.26	7.15E-07
8239	0.27	1.48E-08
8240	-0.41	2.35E-17
8241	-0.16	7.76E-04
8243	-0.30	1.23E-06
8244	-0.35	3.57E-13
8246	-0.54	2.70E-08
8250	0.42	7.78E-06
8255	-0.18	1.44E-04
281		
8259	0.11	2.91E-04
8260	0.19	2.70E-05
8261	0.38	1.87E-14
8264	-0.22	2.46E-03
8267	-0.27	7.60E-03
8274	0.18	2.11E-05
8276	-0.39	1.16E-17

8340	-0.47	7.24E-09
8341	0.13	3.00E-03
8343	0.27	3.43E-08
8346	-0.37	1.18E-03
8348	0.21	1.53E-04
8349	-0.15	1.95E-03
8351	0.24	9.35E-09
8352	-0.29	9.46E-11
8353	-0.34	3.40E-16
8354	-0.27	4.70E-04
8356	-0.13	2.87E-03
8358	-0.37	1.39E-11
8360	0.14	8.51E-03
8361	0.26	5.33E-10
8362	-0.21	1.51E-03
8363	-0.22	5.29E-04
8365	-0.21	3.59E-05
8366	-0.21	3.06E-05
8367	-0.16	5.11E-06
8368	-0.12	7.07E-03
8375	-0.31	5.02E-03
8377	0.22	1.20E-06
8383	0.28	8.96E-10
8384	-0.43	2.55E-05
8387	0.23	7.72E-06
8391	-0.37	9.86E-17
8392	0.13	8.67E-03
8395	-0.24	1.68E-08
8397	0.26	2.86E-09
8398	0.25	7.74E-09
8402	-0.24	4.80E-04
8403	0.22	2.31E-06
8405	0.16	3.63E-04
8411	-0.23	5.62E-07
8412	-0.23	6.82E-07
8413	0.29	7.53E-11
8417	0.14	9.76E-04
8418	0.22	1.33E-04
8420	0.20	8.83E-06

8501	0.23	9.34E-05
8503	-0.20	1.29E-03
8508	-0.27	2.23E-09
8509	0.16	7.21E-03
8515	0.23	4.40E-08
8517	0.14	4.92E-03
8520	-0.38	2.24E-04
8521	0.19	1.73E-05
8522	0.15	1.04E-03
8523	0.15	1.65E-03
8524	0.14	2.02E-03
8529	-0.25	2.66E-03
8532	-0.20	3.04E-04
8533	-0.33	8.24E-03
8539	0.17	1.75E-04
8540	0.14	1.52E-03
8541	0.33	9.66E-08
8544	-0.17	1.04E-03
8547	-0.45	4.07E-07
8548	-0.48	3.26E-05
8550	-0.16	6.23E-04
8557	-0.53	1.38E-09
8559	0.28	7.72E-11
8560	0.29	6.98E-11
8561	0.16	4.55E-03
8563	0.31	5.43E-07
8569	-0.18	7.87E-03
8576	-0.38	1.78E-12
8577	0.19	1.31E-05
8578	0.30	1.91E-04
8580	-0.34	2.07E-08
8585	0.33	5.58E-06
8589	-0.35	5.65E-10
8592	-0.26	1.17E-04
8593	-0.36	2.92E-13
8596	-0.21	4.36E-04
8598	-0.24	9.89E-06
8607	-0.16	4.56E-04
8608	-0.22	1.78E-03

9140	0.25	1.11E-05	8421	-0.50	8.56E-22	8611	-0.26	1.44E-09
9142	0.19	1.91E-05	8423	-0.35	4.94E-12	8613	-0.26	6.01E-07
9150	0.12	4.94E-03	8425	-0.21	1.61E-05	8614	-0.27	1.46E-06
9154	-0.31	6.75E-04	9315	-0.18	1.92E-04	9485	-0.23	1.02E-05
9155	-0.18	1.32E-03	9316	0.19	7.95E-04	9494	-0.52	5.38E-05
9158	0.24	3.19E-07	9319	0.14	8.74E-04	9497	-0.14	4.23E-03
9160	-0.20	5.05E-03	9326	-0.22	6.01E-04	9498	-0.14	2.26E-03
9161	-0.20	8.79E-06	9327	-0.48	4.89E-09	9500	-0.26	5.64E-07
9165	0.24	1.47E-14	9329	-0.16	2.17E-04	9502	0.13	4.04E-03
9166	-0.22	7.58E-06	9332	-0.15	4.30E-03	9505	-0.16	3.89E-07
9173	0.24	4.24E-08	9339	-0.13	2.71E-03	9506	0.20	1.49E-03
9174	0.26	2.85E-04	9341	-0.12	7.82E-03	9508	0.21	1.29E-06
9178	-0.31	7.21E-06	9342	-0.43	4.74E-09	9517	-0.19	1.21E-03
9179	-0.29	1.52E-05	9347	-0.41	2.95E-20	9521	-0.20	7.56E-06
9182	-0.16	5.47E-04	9348	-0.11	4.29E-04	9529	0.19	1.19E-05
9183	-0.29	6.19E-12	9349	-0.46	3.98E-09	9530	-0.33	2.11E-08
9184	0.19	3.17E-05	9352	0.28	5.15E-08	9531	-0.30	1.46E-09
9187	-0.21	2.11E-08	9353	0.27	8.75E-08	9538	-0.42	1.65E-10
9188	0.13	2.83E-03	9355	0.35	1.81E-16	9540	-0.27	6.93E-07
9191	-0.24	4.60E-07	9356	-0.23	4.81E-07	9542	-0.41	3.82E-04
9192	-0.35	6.28E-13	9357	-0.22	2.30E-06	9544	0.09	6.89E-03
9194	0.18	4.81E-05	9360	-0.26	4.59E-05	9548	0.11	4.66E-03
9200	-0.36	1.57E-10	9361	0.20	1.13E-05	9553	-0.20	1.87E-05
9201	0.22	3.00E-06	9367	-0.24	7.44E-05	9557	-0.25	1.55E-07
9207	0.25	1.08E-08	9368	0.51	4.03E-32	9558	-0.25	9.87E-08
9208	-0.38	1.64E-07	9369	0.18	2.91E-05	9575	0.31	2.17E-12
9213	0.18	5.23E-04	9373	0.40	1.89E-18	9582	0.17	1.71E-04
9217	0.28	2.04E-05	9376	0.13	3.28E-03	9584	-0.14	8.20E-04
9225	0.18	1.09E-08	9381	-0.14	5.23E-03	9587	0.25	1.64E-09
9227	-0.19	6.89E-05	9383	-0.24	1.91E-07	9589	0.21	3.79E-05
9228	0.24	3.15E-08	9386	-0.18	2.15E-04	9590	0.20	3.37E-06
9231	-0.19	3.77E-04	9388	-0.37	2.65E-05	9594	-0.19	1.14E-04
9232	-0.25	3.75E-04	9390	-0.25	2.06E-04	9595	-0.21	3.30E-04
9237	-0.23	7.34E-08	9393	0.16	6.98E-04	9598	-0.33	1.37E-08
9241	-0.22	5.88E-06	9394	-0.40	7.92E-08	9609	0.41	1.86E-14
9244	-0.18	1.59E-04	9397	-0.25	5.93E-06	9615	-0.18	1.92E-04
9246	0.15	7.72E-04	9398	-0.16	1.88E-03	9617	-0.39	4.15E-09
9248	0.38	1.47E-17	9402	-0.49	5.17E-21	9624	0.14	1.82E-03
9250	-0.35	1.83E-04	9404	-0.29	1.35E-08	9627	-0.31	8.55E-03
9255	-0.28	7.51E-04	9405	-0.27	1.06E-04	9628	-0.41	8.56E-06

9258	0.21	8.69E-04	9406	-0.20	1.39E-10	9633	-0.52	4.73E-07
9259	-0.28	2.08E-03	9413	-0.39	5.82E-07	9635	0.16	4.10E-04
9260	-0.38	2.37E-15	9421	-0.19	4.05E-03	9636	-0.40	5.89E-09
9261	0.12	9.34E-05	9423	-0.16	1.34E-03	9639	-0.19	2.03E-03
9264	0.14	6.46E-04	9424	-0.30	2.44E-08	9640	-0.16	2.65E-04
9265	0.37	1.99E-06	9430	-0.15	1.07E-03	9645	0.15	4.71E-04
9266	-0.41	2.13E-11	9432	0.18	2.66E-03	9646	-0.38	3.24E-15
9269	-0.25	2.42E-07	9437	-0.60	1.52E-07	9647	-0.44	7.08E-05
9275	-0.15	1.56E-03	9438	0.20	9.68E-03	9654	-0.26	9.99E-03
9276	-0.18	1.86E-03	9443	0.14	2.18E-03	9656	-0.16	1.61E-03
9281	-0.46	8.61E-25	9444	0.23	2.00E-03	9660	-0.32	8.11E-11
9285	0.16	8.62E-04	9445	-0.25	9.63E-06	9665	-0.57	2.98E-19
9288	-0.24	8.99E-08	9447	-0.21	5.78E-03	9670	0.16	3.84E-04
9289	-0.28	6.47E-04	9449	0.27	4.73E-04	9671	0.32	8.29E-12
9290	-0.23	1.56E-07	9450	0.28	7.51E-04	9672	-0.27	2.41E-08
9293	-0.21	1.28E-05	9452	-0.32	4.74E-05	9676	0.27	8.38E-11
282								
9294	-0.21	1.40E-05	9453	0.17	1.46E-03	9680	0.39	2.19E-19
9300	0.29	3.08E-11	9455	0.16	3.64E-03	9681	0.32	5.85E-07
9301	0.20	4.43E-04	9458	-0.48	1.06E-03	9682	-0.19	9.98E-06
9302	0.22	1.14E-04	9459	-0.22	1.62E-06	9684	0.22	4.96E-07
9305	0.21	1.90E-06	9462	-0.12	9.10E-03	9685	-0.42	1.77E-09
9307	0.24	7.68E-06	9464	-0.18	3.72E-03	9686	-0.22	2.61E-03
9311	-0.23	3.90E-07	9472	-0.27	1.06E-07	9687	-0.18	7.97E-05
9314	0.32	1.00E-10	9476	-0.23	1.37E-07	9688	0.19	1.58E-05
10299	0.32	3.77E-10	9478	0.42	3.10E-10	9689	-0.44	1.46E-03
10300	-0.25	2.38E-05	9480	-0.19	4.88E-03	9690	-0.17	2.13E-03
10302	0.29	8.55E-12	9483	-0.34	4.01E-08	9692	0.16	1.23E-03
10304	-0.33	1.70E-10	10480	-0.31	2.21E-08	10688	-0.34	3.18E-14
10305	-0.25	1.33E-08	10481	0.24	2.71E-07	10696	-0.14	6.43E-03
10314	0.24	6.70E-04	10483	0.38	1.27E-06	10711	-0.12	6.42E-03
10315	-0.16	7.68E-03	10487	-0.37	3.70E-11	10717	-0.32	9.34E-10
10317	-0.15	8.93E-03	10490	-0.30	1.82E-10	10722	0.36	2.34E-10
10327	-0.24	1.21E-05	10491	0.21	5.02E-03	10728	0.27	6.98E-04
10331	0.22	4.53E-06	10492	0.27	1.89E-08	10733	0.19	7.46E-04
10333	0.22	3.19E-07	10494	0.33	1.31E-20	10738	-0.33	8.48E-07
10337	0.16	7.41E-03	10495	-0.24	2.80E-06	10748	0.22	6.42E-06
10341	-0.39	4.07E-12	10503	0.12	6.77E-03	10758	-0.43	1.45E-09
10342	0.16	4.86E-03	10507	-0.29	1.41E-08	10759	-0.24	1.32E-03
10343	0.16	7.86E-04	10509	-0.19	3.10E-04	10763	-0.62	2.63E-10

10346	-0.39	1.80E-03
10347	-0.13	2.59E-03
10353	0.42	3.02E-10
10357	0.17	2.29E-03
10358	-0.34	3.60E-08
10362	-0.23	4.10E-05
10363	0.23	1.90E-07
10367	0.19	7.10E-06
10368	0.16	6.85E-03
10370	0.30	1.34E-12
10372	-0.11	1.21E-03
10374	-0.35	3.77E-15
10375	-0.29	6.18E-08
10378	-0.15	3.44E-03
10379	-0.16	2.61E-03
10380	0.22	1.21E-03
10386	-0.23	3.90E-07
10387	-0.17	1.94E-04
10391	0.12	8.91E-03
10393	-0.21	1.86E-04
10396	-0.30	2.73E-06
10399	0.19	1.30E-05
10400	-0.21	4.38E-03
10402	-0.23	1.85E-07
10404	-0.14	2.06E-03
10408	-0.15	2.48E-03
10409	0.19	3.78E-05
10421	0.26	9.85E-05
10422	0.30	3.22E-06
10423	0.27	1.42E-08
10427	-0.36	1.40E-06
10436	-0.42	5.40E-05
10438	0.43	3.74E-26
10439	0.22	3.29E-06
10441	0.23	3.02E-07
10444	-0.60	1.65E-23
10446	-0.29	2.54E-04
10448	-0.13	5.93E-03
10453	-0.42	6.90E-04
10454	0.34	2.39E-16

10515	-0.50	7.71E-09
10520	-0.75	1.19E-13
10530	0.15	2.05E-03
10537	-0.18	4.00E-04
10538	0.27	6.99E-08
10539	0.30	9.99E-12
10542	0.09	5.79E-03
10543	-0.39	3.86E-08
10548	0.18	1.94E-05
10550	-0.19	5.68E-05
10554	-0.18	2.69E-03
10555	0.34	1.05E-07
10560	-0.13	6.42E-03
10561	-0.16	9.09E-03
10563	-0.26	1.74E-03
10569	0.20	5.65E-06
10570	-0.31	4.98E-10
10576	-0.22	3.30E-07
10578	-0.23	1.21E-06
10582	0.10	1.24E-03
10584	-0.31	1.45E-12
10586	-0.24	3.61E-03
10590	-0.23	5.77E-07
10593	0.14	1.75E-03
10597	-0.15	7.69E-04
10599	-0.17	5.53E-03
10601	-0.23	1.78E-06
10603	-0.15	8.90E-04
10604	-0.47	2.59E-14
10605	-0.17	2.54E-03
10608	-0.41	7.69E-18
10612	-0.22	1.01E-03
10622	-0.48	3.13E-06
10624	-0.17	3.19E-03
10625	0.32	5.16E-13
10633	-0.35	2.63E-12
10634	0.15	2.56E-03
10636	-0.29	7.17E-03
10639	-0.13	1.34E-03
10644	0.21	6.09E-03

10769	-0.20	3.43E-05
10775	-0.17	1.52E-04
10777	0.30	1.98E-03
10778	0.38	1.05E-19
10785	0.17	8.14E-03
10791	-0.20	2.85E-05
10792	-0.17	1.87E-03
10798	0.21	1.34E-06
10801	-0.12	8.81E-03
10802	0.19	7.47E-04
10807	-0.21	4.04E-06
10811	-0.39	9.41E-05
10813	0.21	3.23E-05
10818	-0.24	3.41E-07
10828	-0.15	9.12E-04
10837	0.32	8.60E-14
10838	0.34	1.98E-14
10839	-0.27	1.75E-03
10854	-0.20	3.21E-03
10865	0.16	4.16E-04
10866	0.19	1.84E-04
10872	-0.44	1.29E-14
10875	-0.21	1.16E-04
10877	0.25	2.03E-03
10878	0.17	6.97E-05
10888	-0.50	1.13E-16
10889	-0.14	7.72E-04
10891	-0.24	8.41E-05
10895	-0.16	2.52E-03
10897	0.37	6.10E-05
10898	0.36	7.17E-04
10902	0.17	2.60E-04
10908	0.18	3.46E-04
10911	-0.14	1.34E-03
10913	-0.16	1.57E-04
10917	-0.24	2.92E-04
10923	-0.37	2.96E-08
10924	0.24	1.61E-07
10926	-0.55	8.76E-09
10934	-0.23	4.29E-05

283								
10456	-0.31	2.58E-06	10648	0.30	2.30E-03	10940	-0.12	6.84E-03
10457	0.17	3.85E-08	10649	0.22	7.08E-07	10943	-0.35	8.29E-06
10461	-0.29	4.29E-06	10653	0.16	6.10E-04	10948	-0.19	1.04E-04
10462	0.26	6.99E-09	10655	-0.29	2.73E-11	10950	0.13	2.10E-03
10464	0.20	1.72E-03	10666	-0.22	5.34E-04	10951	0.21	5.33E-03
10467	-0.11	1.77E-03	10667	0.14	7.21E-04	10952	0.30	1.86E-10
10468	-0.10	7.70E-03	10668	-0.45	6.19E-10	10962	0.24	1.91E-06
10474	-0.29	3.33E-08	10674	-0.34	2.34E-13	10965	0.26	5.45E-09
10478	0.29	1.98E-05	10677	0.38	9.95E-14	10973	-0.29	4.70E-03
11866	-0.21	4.05E-06	10678	-0.39	5.42E-05	10974	-0.18	9.11E-04
11874	0.27	1.66E-03	10685	-0.12	6.15E-03	10977	-0.28	4.82E-08
11875	-0.24	3.09E-03	10687	0.18	1.26E-04	10980	0.39	8.02E-21
11879	-0.13	7.63E-03	12147	0.24	1.81E-06	12456	0.11	9.91E-03
11887	-0.20	2.50E-05	12153	-0.29	7.48E-07	12457	-0.15	5.73E-03
11888	-0.41	1.15E-06	12154	-0.13	3.48E-03	12458	0.35	7.61E-16
11890	-0.30	8.22E-13	12162	-0.26	4.14E-09	12462	0.29	3.87E-11
11895	0.22	3.18E-03	12165	0.20	8.57E-03	12463	-0.12	4.45E-03
11896	-0.13	3.51E-03	12166	-0.39	2.07E-08	12465	-0.44	1.21E-09
11897	0.25	1.76E-07	12168	0.26	4.18E-08	12466	-0.34	1.16E-09
11898	-0.34	4.87E-12	12170	-0.24	4.80E-06	12469	-0.37	3.70E-10
11899	-0.15	5.76E-03	12174	-0.33	3.55E-14	12477	-0.36	1.26E-07
11900	-0.48	8.22E-13	12175	0.15	5.60E-04	12482	-0.37	1.27E-08
11901	0.15	3.04E-04	12181	0.28	6.90E-03	12489	-0.35	1.01E-06
11902	-0.44	2.67E-05	12186	0.27	3.57E-10	12491	0.35	2.69E-16
11903	0.31	3.04E-07	12187	-0.19	3.44E-05	12498	0.32	5.02E-13
11908	0.17	9.12E-05	12190	-0.27	1.65E-07	12500	-0.32	1.65E-06
11915	-0.18	1.72E-04	12193	-0.23	1.26E-06	12503	0.16	3.96E-04
11917	-0.29	9.26E-03	12200	0.25	4.88E-09	12509	-0.49	1.90E-14
11918	0.21	2.88E-06	12208	0.20	2.68E-06	12510	-0.21	1.08E-04
11920	0.21	5.42E-05	12214	0.26	2.61E-06	12518	0.26	9.92E-10
11929	0.19	1.01E-08	12215	-0.39	2.40E-07	12519	-0.15	4.06E-03
11932	-0.18	7.42E-03	12219	-0.15	1.16E-03	12521	0.41	1.99E-20
11936	-0.14	7.79E-04	12226	-0.22	2.30E-04	12522	-0.22	1.96E-06
11939	-0.23	5.64E-05	12228	-0.61	4.05E-08	12524	0.34	4.52E-15
11940	-0.21	1.14E-05	12230	0.37	4.20E-10	12529	0.29	1.98E-11
11943	0.32	6.84E-06	12232	0.40	2.32E-19	12532	0.12	8.45E-03
11947	-0.15	4.71E-04	12235	-0.30	1.91E-04	12536	-0.33	2.20E-10
11959	0.31	4.25E-08	12240	0.22	2.39E-06	12540	0.22	4.82E-03
11961	-0.37	2.23E-16	12241	-0.60	2.70E-13	12542	-0.13	6.54E-03

11963	0.12	3.90E-03
11972	-0.44	1.88E-04
11974	-0.16	8.41E-03
11976	-0.36	4.02E-07
11977	-0.18	1.69E-05
12000	-0.39	1.13E-16
12010	0.19	6.03E-04
12012	-0.23	1.05E-03
12022	-0.53	8.82E-11
12032	0.36	8.19E-16
12036	0.13	3.22E-03
12043	-0.16	9.12E-04
12045	-0.35	1.52E-04
12060	0.19	1.00E-03
12063	0.22	2.56E-05
12065	-0.23	1.01E-03
12067	-0.40	3.62E-07
12071	0.27	1.98E-03
12073	-0.41	4.98E-11
12076	0.26	7.86E-10
12078	0.18	5.02E-03
12081	-0.29	6.97E-11
12086	-0.15	1.09E-03
12090	0.27	7.08E-10
284		
12095	-0.29	5.43E-08
12115	-0.28	1.35E-04
12118	-0.31	1.03E-03
12126	0.19	7.88E-06
12127	-0.15	6.30E-03
12130	-0.56	2.47E-04
12131	-0.36	3.65E-05
12132	0.18	6.10E-05
12137	0.17	1.55E-03
12141	-0.14	6.63E-06
14448	-0.29	3.18E-07
14450	0.16	9.66E-04
14454	0.30	3.25E-06
14460	0.18	7.72E-05
14463	0.21	9.25E-06

12242	-0.19	1.86E-05
12253	-0.16	1.11E-03
12275	0.22	2.63E-06
12284	0.31	4.76E-12
12286	0.21	1.19E-04
12288	0.28	4.62E-09
12291	0.47	4.83E-31
12292	0.24	8.00E-08
12293	-0.55	1.41E-12
12302	0.22	6.56E-05
12304	-0.16	3.48E-04
12308	0.18	1.44E-04
12310	0.45	8.46E-08
12317	0.18	2.59E-05
12322	0.29	2.35E-13
12329	0.18	9.70E-04
12330	0.22	1.22E-05
12334	-0.15	1.21E-03
12336	0.33	1.19E-14
12343	-0.42	8.20E-06
12344	0.33	9.28E-14
12356	-0.40	1.24E-11
12358	-0.40	2.46E-19
12368	0.22	2.74E-08
12376	0.23	2.53E-06
12378	-0.38	5.78E-03
12379	-0.11	8.86E-03
12381	-0.22	3.86E-04
12389	-0.14	7.14E-03
12393	0.28	5.98E-12
12409	0.31	1.17E-12
12411	0.27	4.08E-05
12412	-0.26	7.83E-09
12415	0.35	5.24E-05
12423	-0.14	5.95E-03
12433	0.21	8.03E-07
12444	-0.36	3.68E-05
14777	-0.24	7.66E-07
14778	0.19	1.72E-05

12544	0.39	6.06E-14
12545	-0.46	5.49E-05
12546	0.28	5.89E-11
12547	-0.31	8.66E-11
12549	0.18	6.38E-04
12561	-0.39	4.36E-03
12565	0.35	1.49E-06
12573	0.18	5.78E-03
12577	-0.34	2.95E-13
12583	-0.32	6.13E-06
12584	-0.43	1.45E-12
12588	-0.26	8.64E-03
12590	-0.44	1.26E-09
12591	-0.26	2.30E-07
12592	0.28	3.39E-08
12597	-0.27	2.93E-08
12598	-0.38	1.84E-10
12602	-0.16	3.76E-04
12605	-0.23	6.31E-08
12606	-0.22	1.47E-05
12610	-0.37	1.81E-03
12613	-0.52	1.05E-19
12617	-0.18	6.41E-03
12620	0.13	9.78E-03
12623	-0.14	1.97E-03
12625	0.24	3.18E-08
12627	-0.33	6.33E-04
12630	0.24	3.41E-05
12642	0.12	6.58E-03
12644	-0.25	1.34E-06
12655	-0.20	2.37E-05
12656	-0.50	6.18E-19
12657	0.36	1.34E-14
12658	-0.17	2.27E-03
12667	0.21	5.52E-03
12668	-0.52	3.42E-20
12673	-0.33	8.48E-12
6769	0.11	5.00E-02
6792	-0.07	5.00E-02

14469	-0.20	3.51E-05	14780	-0.21	8.69E-04	6982	0.11	5.00E-02
14474	-0.23	8.52E-05	14781	-0.55	6.52E-08	7153	-0.16	5.00E-02
14476	0.41	1.18E-12	14783	0.31	7.02E-12	7389	0.42	5.00E-02
14478	-0.20	1.41E-04	14788	-0.11	8.04E-03	7628	0.05	5.00E-02
14479	-0.31	2.95E-10	14790	-0.37	1.08E-04	7855	0.20	5.00E-02
14484	0.30	3.45E-12	14791	0.24	6.95E-07	8096	0.05	5.00E-02
14494	-0.15	7.23E-03	14797	0.16	2.39E-04	8175	0.05	5.00E-02
14498	-0.34	7.77E-08	14800	-0.16	1.46E-03	8313	0.16	5.00E-02
14502	-0.34	6.00E-04	14801	-0.16	8.59E-04	8350	-0.06	5.00E-02
14504	-0.38	5.29E-07	14806	-0.48	5.16E-09	8788	0.10	5.00E-02
14507	0.25	1.10E-08	14808	0.17	9.95E-05	8885	-0.08	5.00E-02
14509	0.19	6.39E-05	14817	-0.40	6.67E-09	9218	-0.10	5.00E-02
14515	-0.13	4.92E-03	14828	0.12	5.40E-03	9234	-0.07	5.00E-02
14523	0.32	1.73E-12	14839	-0.29	5.05E-10	9511	0.06	5.00E-02
14524	-0.39	9.24E-10	14872	-0.48	2.29E-05	9600	0.06	5.00E-02
14525	-0.28	4.38E-03	14873	-0.18	1.53E-04	10213	0.06	5.00E-02
14533	-0.15	4.89E-03	14884	-0.16	3.79E-04	10499	0.04	5.00E-02
14535	-0.20	2.68E-05	14886	0.33	5.75E-15	10796	0.52	5.00E-02
14539	-0.21	1.70E-03	14899	0.25	2.25E-06	11004	0.05	5.00E-02
14540	0.18	6.01E-03	14904	0.28	7.13E-11	11813	0.48	5.00E-02
14555	0.28	1.37E-10	14915	0.37	3.90E-17	11828	0.14	5.00E-02
14560	-0.27	7.37E-06	14925	0.23	3.87E-08	11957	0.50	5.00E-02
14575	-0.21	6.97E-03	14937	0.35	1.70E-18	11962	0.05	5.00E-02
14582	0.24	9.10E-08	14938	0.34	1.61E-04	12001	0.19	5.00E-02
14586	-0.16	7.35E-03	14944	-0.52	1.34E-06	12255	-0.08	5.00E-02
14602	-0.11	2.95E-03	14953	-0.12	7.48E-03	12434	-0.05	5.00E-02
14603	0.23	1.43E-07	14966	-0.36	4.63E-16	12455	0.46	5.00E-02
14612	-0.41	2.71E-20	14971	-0.20	7.95E-03	12525	-0.50	5.00E-02
14616	-0.23	7.64E-04	14972	0.36	7.30E-17	12621	-0.05	5.00E-02
14623	0.20	7.46E-05	14973	0.33	5.69E-11	13004	-0.08	5.00E-02
14625	-0.21	1.37E-05	14974	-0.43	3.51E-14	13180	-0.35	5.00E-02
14626	-0.20	1.31E-05	14975	0.16	9.05E-04	13263	0.20	5.00E-02
14628	-0.31	4.19E-15	14989	-0.36	2.04E-04	13287	0.07	5.00E-02
14631	-0.21	7.22E-07	14996	-0.18	7.28E-05	13289	0.16	5.00E-02
14649	0.12	9.64E-03	14999	-0.43	1.86E-03	13556	0.23	5.00E-02
14651	0.17	1.10E-04	15001	-0.18	7.07E-03	13582	-0.04	5.00E-02
14654	0.21	1.07E-05	15003	-0.25	4.83E-07	13598	0.48	5.00E-02
14658	0.19	1.51E-07	15008	-0.36	2.91E-08	13658	-0.42	5.00E-02
14659	0.15	6.02E-04	15012	-1.05	3.27E-08	14022	0.26	5.00E-02
14661	-0.20	2.28E-05	15017	-0.34	2.69E-04	14060	0.89	5.00E-02

14668	-0.38	1.75E-08	15023	-0.13	6.70E-03	14177	0.49	5.00E-02
14688	0.18	9.46E-04	15026	-0.21	4.10E-06	14292	-0.56	5.00E-02
14694	-0.25	1.98E-03	15042	-0.45	6.25E-10	14349	-0.54	5.00E-02
14695	-0.43	4.59E-17	15047	-0.34	3.10E-10	14620	-0.09	5.00E-02
14696	0.28	1.22E-04	15048	0.16	3.05E-03	14745	-0.07	5.00E-02
14697	-0.31	8.99E-10	15050	-0.27	3.66E-06	14749	-0.23	5.00E-02
14698	-0.30	1.61E-09	15053	-0.19	4.35E-03	14855	0.06	5.00E-02
14699	0.23	5.96E-08	15060	-0.37	5.03E-15	14930	0.48	5.00E-02
285								
14700	-0.35	1.18E-16	15062	-0.52	2.06E-04	14982	0.05	5.00E-02
14701	-0.23	3.63E-04	15084	-0.47	1.10E-03	15010	0.21	5.00E-02
14705	-0.21	1.07E-03	15086	-0.27	1.82E-08	15024	-0.15	5.00E-02
14722	0.17	9.40E-05	15092	0.16	3.76E-04	15140	0.66	5.00E-02
14727	0.16	2.05E-04	15104	0.26	2.76E-08	15249	0.22	5.00E-02
14734	-0.41	2.02E-13	15113	-0.36	2.11E-07	4527	0.09	5.00E-02
14736	-0.25	7.15E-03	15115	-0.29	1.47E-08	4540	-0.08	5.00E-02
14738	-0.48	2.01E-06	15128	0.29	3.58E-11	5282	-0.11	5.00E-02
14739	0.38	1.02E-18	15131	-0.24	3.60E-08	5380	-0.06	5.00E-02
14767	0.26	3.18E-05	15133	-0.34	2.93E-03	5783	0.08	5.00E-02
14773	-0.38	1.19E-11	15149	0.34	4.11E-05	6153	-0.61	5.00E-02
1817	-0.05	5.00E-02	15150	0.17	3.45E-03	6670	0.07	5.00E-02
2258	-0.26	5.00E-02	15162	-0.14	1.79E-03	15351	0.31	1.16E-09
2603	-0.14	5.00E-02	15164	0.21	1.44E-06	15368	-0.33	3.12E-10
2985	-0.21	5.00E-02	15168	-0.22	2.39E-06	15374	-0.18	9.52E-03
3023	0.10	5.00E-02	15172	0.18	4.14E-05	230	-0.04	5.00E-02
3157	-0.74	5.00E-02	15182	0.21	1.13E-05	739	-0.05	5.00E-02
3769	0.06	5.00E-02	15184	-0.37	5.02E-15	748	0.07	5.00E-02
3820	0.18	5.00E-02	15187	-0.55	7.08E-08	1192	-0.10	5.00E-02
3903	-0.12	5.00E-02	15188	-0.27	3.74E-06	1227	0.11	5.00E-02
4260	0.15	5.00E-02	15192	-0.18	7.90E-03	1372	0.05	5.00E-02
4392	-0.13	5.00E-02	15204	-0.16	8.42E-04	1416	0.05	5.00E-02
1037	-0.20	3.85E-05	3550	0.20	4.91E-06	6862	-0.50	5.97E-05
1039	-0.20	3.93E-03	3554	0.20	3.35E-09	6869	-0.40	3.10E-15
1049	-0.20	7.22E-05	3557	-0.40	3.65E-04	6870	-0.40	2.72E-04
1050	-0.20	1.58E-03	3558	-0.50	3.49E-31	6876	0.20	1.61E-05
1056	0.20	2.90E-07	3559	-0.70	1.05E-06	6879	-0.30	1.30E-10
1057	0.10	3.16E-03	3568	0.30	2.58E-11	6886	-0.20	3.83E-04
1063	0.20	1.35E-07	3569	0.30	7.62E-09	6887	-0.30	2.45E-12
1065	-0.10	3.37E-03	3575	-0.40	5.17E-05	6889	-0.20	8.34E-07
1072	0.20	2.77E-05	3578	0.20	7.25E-03	6894	0.30	1.27E-09

1075	-0.30	5.70E-04	3579	0.10	5.15E-05	6895	0.20	2.19E-05
1084	0.20	9.20E-08	3582	-0.20	3.16E-06	6899	0.20	2.28E-05
1085	0.20	1.40E-03	4536	0.30	1.64E-13	6910	0.40	1.18E-10
1089	-0.20	6.63E-04	4537	-0.20	4.67E-04	6919	-0.20	9.16E-06
1091	-0.40	8.58E-03	4541	-0.20	4.86E-04	6921	-0.20	2.31E-03
1094	0.40	1.77E-14	4542	0.50	6.53E-32	6925	-0.50	2.02E-03
1097	-0.30	2.11E-16	4543	0.40	1.59E-11	6928	0.40	1.84E-15
1098	-0.20	9.15E-07	4544	-0.10	7.55E-03	6933	-0.20	4.58E-03
1100	-0.30	7.44E-09	4545	0.20	4.63E-04	6934	-0.20	4.48E-03
1105	-0.20	1.84E-05	4551	-0.30	2.92E-07	6936	-0.40	6.11E-13
1107	0.20	5.88E-03	4558	0.40	5.17E-10	6938	-0.10	5.51E-03
1108	-0.10	8.54E-03	4559	0.40	8.56E-10	6945	0.30	1.19E-13
1110	-0.40	7.05E-16	4560	-0.20	4.51E-05	6951	0.20	3.93E-06
1113	-0.20	1.20E-05	4561	0.10	9.67E-03	7915	0.21	7.57E-07
1114	-0.20	1.36E-03	4565	0.20	4.91E-03	7916	0.17	3.59E-04
1115	-0.20	2.03E-03	4567	-0.40	1.23E-07	7921	-0.18	4.03E-03
1121	-0.20	6.38E-03	4576	0.10	3.54E-03	7927	0.25	3.95E-08
1128	-0.20	1.04E-03	4578	0.30	9.89E-11	7929	-0.17	1.07E-03
1129	-0.20	7.08E-04	4580	-0.30	1.60E-06	7937	0.11	6.31E-03
1140	0.30	1.04E-11	4581	0.30	3.71E-17	7939	0.33	1.63E-13
1141	0.30	1.01E-07	4582	0.30	3.95E-13	7941	0.18	7.90E-04
1142	-0.30	6.55E-08	4583	0.40	1.21E-21	7942	-0.19	1.46E-05
1151	0.10	2.47E-03	4584	0.20	1.71E-06	7950	-0.21	1.91E-06
1152	0.30	4.93E-07	4585	-0.30	2.98E-03	7952	0.24	2.36E-07
1154	-0.30	3.07E-05	4586	-0.10	1.21E-03	7956	-0.16	1.22E-03
1157	-0.10	3.68E-03	4589	0.20	5.43E-07	7963	0.16	2.96E-03
1158	0.10	1.10E-03	4599	-0.20	5.12E-06	7964	0.24	5.96E-09
1161	0.20	1.90E-04	4602	0.60	4.84E-40	7965	0.45	2.93E-26
1163	0.40	1.77E-07	4606	-0.10	3.73E-04	7966	-0.33	7.45E-09
1164	0.10	2.73E-03	4607	-0.20	2.88E-04	7972	0.19	3.64E-04
1165	0.20	9.99E-06	4608	-0.40	3.35E-17	7973	0.18	1.26E-03
1170	-0.20	1.49E-08	4609	-0.20	2.10E-03	7974	0.26	3.22E-04
286								
1171	0.20	3.51E-06	4610	0.10	3.74E-03	7976	-0.16	3.33E-04
1172	-0.20	7.10E-04	4611	0.10	4.64E-03	7981	0.16	7.52E-04
1174	-0.30	2.21E-04	4612	-0.30	1.50E-04	7982	0.35	1.01E-12
1178	0.10	1.31E-03	4615	-0.40	5.84E-06	7983	0.19	3.54E-05
1183	0.20	1.76E-04	4616	-0.20	2.29E-06	7987	-0.31	7.92E-03
1185	0.40	8.05E-15	4619	-0.40	5.39E-18	7994	-0.18	2.78E-03
1186	0.20	6.20E-07	4620	0.10	2.10E-03	7995	-0.17	3.32E-03

1187	0.30	1.08E-13	4622	-0.30	1.67E-07	7996	-0.17	3.01E-03
1188	0.30	1.87E-13	4623	-0.20	1.07E-04	7997	0.16	3.68E-03
1191	-0.10	7.83E-03	4627	-0.30	7.92E-05	8002	-0.17	9.14E-03
1193	0.10	3.70E-03	4629	0.30	1.77E-11	8007	-0.63	8.28E-04
1194	0.20	1.07E-06	4634	-0.50	1.39E-13	8009	-0.28	5.21E-08
1195	0.30	1.15E-10	4647	0.30	8.39E-07	8012	-0.49	7.26E-10
1201	-0.10	1.87E-03	4651	0.40	1.02E-16	8013	-0.27	6.16E-04
1202	0.20	3.10E-03	4654	-0.60	8.56E-19	8015	0.33	6.26E-06
1203	0.10	1.87E-03	4662	-0.30	3.47E-08	8018	0.28	1.77E-06
1213	0.30	3.19E-09	4664	0.20	9.09E-07	8022	-0.26	1.21E-04
1214	0.10	4.91E-03	4669	-0.20	3.23E-04	8024	-0.29	1.35E-09
1217	0.50	2.20E-07	4670	-0.20	1.93E-04	8025	-0.50	1.72E-10
1219	-0.30	6.09E-03	4671	-0.30	5.77E-07	8028	-0.31	1.59E-06
1229	-0.20	1.76E-06	4675	0.20	2.04E-04	8031	0.27	6.94E-06
1230	0.40	8.92E-05	4677	-0.10	2.39E-03	8032	-0.26	4.32E-09
1237	-0.20	1.42E-04	4678	0.40	3.08E-13	8037	-0.42	9.67E-09
2187	-0.30	8.06E-09	4679	-0.40	6.42E-21	8038	0.22	8.29E-03
2195	-0.20	2.50E-07	4683	-0.20	4.16E-04	8040	0.34	1.24E-10
2200	-0.40	8.74E-05	4687	0.10	3.26E-03	8044	0.19	1.03E-09
2201	0.20	4.44E-07	4689	-0.20	4.47E-04	8046	0.30	7.19E-10
2203	-0.20	5.93E-03	4690	-0.50	8.54E-15	8048	-0.26	4.37E-06
2210	-0.20	4.43E-03	4691	-0.40	3.95E-10	8052	0.14	1.29E-03
2211	0.20	1.39E-07	4696	-0.30	2.89E-12	8055	0.32	2.58E-09
2215	0.30	3.01E-07	4699	0.20	2.51E-03	8060	-0.20	8.88E-06
2218	0.20	8.24E-08	4702	0.10	2.29E-05	8062	-0.32	4.84E-10
2224	0.40	4.07E-20	4708	-0.40	6.55E-09	8063	-0.33	2.93E-10
2226	-0.40	8.16E-05	4723	-0.20	9.31E-06	8067	0.11	7.74E-03
2227	-0.30	7.56E-08	5701	0.20	3.67E-05	8070	0.13	3.49E-03
2228	-0.40	7.46E-06	5703	0.40	1.67E-27	8075	-0.33	2.31E-15
2229	-0.30	1.42E-08	5704	0.30	7.86E-11	8083	-0.18	6.28E-05
2231	0.40	8.79E-15	5705	0.20	3.59E-07	8085	-0.32	4.27E-09
2237	-0.20	7.72E-04	5707	-0.20	1.71E-05	8086	0.15	1.02E-03
2245	-0.30	7.52E-06	5708	-0.60	4.79E-08	8087	-0.27	2.86E-08
2248	-0.10	1.42E-05	5710	0.20	2.66E-05	8088	0.15	4.55E-03
2250	-0.30	3.01E-09	5711	-0.30	9.69E-06	8089	0.42	2.93E-10
2251	-0.30	4.55E-08	5713	0.20	2.89E-08	8090	0.32	2.65E-09
2254	-0.10	5.54E-03	5714	0.10	3.43E-03	8092	-0.23	1.68E-03
2257	-0.10	8.01E-03	5715	-0.30	2.90E-04	8093	-0.11	8.56E-03
2260	-0.20	7.74E-04	5722	-0.30	2.47E-03	8958	0.17	1.69E-04
2261	-0.30	3.50E-09	5723	-0.40	9.09E-06	8959	-0.29	8.79E-06

2268	-0.30	1.08E-05	5731	0.10	1.81E-03	8960	-0.29	1.74E-11
2272	0.10	3.34E-03	5737	-0.30	1.02E-04	8963	-0.34	5.42E-06
2275	-0.30	1.62E-12	5739	0.10	3.28E-03	8965	-0.16	9.52E-04
2284	-0.20	4.43E-04	5741	-0.20	2.15E-09	8967	0.26	5.42E-05
2285	-0.30	1.72E-10	5742	-0.20	2.21E-09	8968	0.16	5.87E-03
2293	0.20	5.71E-07	5752	0.20	3.15E-07	8969	-0.17	2.27E-03
2294	0.20	5.32E-07	5753	-0.30	8.31E-06	8970	-0.16	2.04E-05
2295	-0.20	1.70E-04	5754	0.40	1.11E-17	8971	0.15	1.69E-05
2300	0.40	5.72E-25	5756	0.30	2.40E-10	8977	0.24	5.73E-07
2303	0.40	3.55E-16	5760	0.20	2.94E-05	8980	-0.23	9.79E-07
2304	0.20	4.96E-07	5761	0.20	1.45E-06	8981	-0.47	1.75E-18
2311	0.20	3.50E-06	5762	0.20	1.65E-06	8985	-0.74	3.52E-08
2314	0.20	8.76E-08	5763	0.20	7.66E-03	8987	-0.29	7.95E-09
2315	0.20	2.98E-07	5764	0.30	3.74E-08	8996	0.15	4.38E-03
2316	0.20	2.38E-06	5768	-0.20	1.48E-03	8997	0.24	5.62E-08
2318	-0.10	1.32E-03	5772	0.30	1.03E-03	8999	0.24	1.05E-05
287								
2320	-0.20	2.11E-04	5774	-0.50	6.85E-03	9000	-0.23	4.80E-03
2323	0.30	2.13E-11	5775	0.30	6.35E-10	9002	0.17	4.48E-03
2324	-0.40	1.19E-16	5777	0.40	5.58E-07	9003	0.33	5.39E-14
2325	-0.30	7.15E-12	5784	-0.30	3.09E-06	9006	0.22	1.86E-07
2328	0.20	8.22E-07	5785	-0.50	2.09E-08	9010	-0.24	7.23E-09
2329	-0.30	5.13E-07	5788	-0.20	5.88E-04	9011	0.25	1.18E-08
2330	0.20	8.39E-06	5790	-0.20	4.73E-03	9013	-0.33	5.18E-10
2334	-0.10	2.07E-03	5791	-0.20	1.62E-07	9022	0.23	6.72E-03
2335	-0.50	1.88E-25	5792	0.20	8.38E-04	9027	-0.32	5.63E-11
2336	0.10	4.94E-03	5793	0.20	6.07E-03	9030	0.17	1.64E-04
2341	-0.20	7.46E-06	5795	0.30	8.59E-03	9032	0.17	7.90E-03
2343	0.30	2.54E-10	5796	-0.20	7.37E-05	9040	-0.22	1.10E-06
2345	-0.20	1.90E-07	5798	-0.20	1.93E-04	9043	-0.52	6.57E-09
2354	-0.40	5.10E-06	5800	-0.30	1.66E-09	9046	-0.36	5.48E-10
2360	-0.20	1.98E-03	5806	-0.50	1.56E-11	9049	-0.38	1.25E-04
2362	-0.40	5.07E-11	5807	0.10	5.01E-03	9050	-0.34	1.32E-09
2369	-0.10	2.81E-03	5808	0.40	1.10E-09	9054	-0.17	5.18E-03
2371	-0.30	2.95E-04	5809	-0.40	1.03E-04	9055	-0.34	9.78E-10
2373	-0.40	3.45E-08	5812	0.10	1.46E-03	9056	-0.13	9.23E-04
2383	-0.20	1.22E-03	5815	-0.20	6.27E-04	9057	-0.26	1.03E-10
2388	-0.20	5.13E-06	5816	-0.40	8.42E-05	9059	-0.36	1.15E-07
2389	-0.50	2.35E-22	5819	-0.30	2.26E-08	9065	0.22	3.82E-05
2390	-0.20	1.09E-04	5821	-0.30	3.79E-07	9070	0.33	5.49E-06

2391	-0.20	1.31E-03
3395	0.30	9.80E-10
3396	-0.30	7.64E-07
3406	-0.10	4.18E-03
3407	0.30	3.25E-11
3412	0.10	6.42E-03
3413	0.10	7.77E-03
3415	0.40	1.13E-05
3416	0.20	1.53E-04
3417	0.30	3.32E-13
3418	0.20	1.53E-07
3419	0.10	9.56E-03
3420	0.30	5.18E-09
3423	0.20	1.45E-05
3428	-0.10	1.55E-03
3435	-0.30	5.39E-04
3438	-0.20	3.17E-12
3439	-0.40	1.12E-08
3440	-0.30	1.63E-03
3441	0.20	4.64E-03
3442	-0.30	1.66E-04
3444	-0.20	3.17E-03
3448	0.30	3.07E-05
3451	0.30	1.01E-05
3455	-0.20	4.11E-03

5822	-0.20	4.25E-03
5823	-0.20	2.81E-03
5824	-0.30	1.47E-03
5825	-0.50	2.55E-14
5828	-0.30	1.99E-05
5831	-0.20	7.17E-06
5835	0.30	2.09E-09
5838	-0.30	7.01E-13
5839	-0.30	7.33E-04
5840	0.20	1.44E-04
5841	0.10	1.29E-03
5846	0.20	8.62E-04
6717	0.20	4.41E-06
6718	-0.40	1.69E-05
6722	-0.30	4.14E-07
6724	0.30	1.11E-10
6727	0.50	5.63E-16
6735	0.30	2.39E-07
6738	-0.20	6.86E-05
6739	-0.10	9.63E-03
6748	0.20	6.09E-06
6749	-0.50	5.88E-12
6751	-0.20	3.49E-04
6754	0.20	3.50E-05
6755	0.30	3.14E-13
6757	-0.50	1.70E-20
6762	-0.20	2.69E-05
6764	0.20	7.92E-04
6770	-0.10	4.92E-04
6774	-0.20	9.66E-04
6775	0.20	3.97E-03
6776	0.20	5.25E-07

9072	0.14	2.54E-03
9077	0.17	1.66E-03
9081	0.13	2.65E-03
9084	-0.34	5.36E-10
9087	-0.22	8.80E-08
9089	-0.15	2.81E-03
9093	0.21	1.88E-05
9094	0.18	7.98E-04
9095	-0.33	3.39E-03
9096	-0.16	2.29E-04
9099	-0.19	2.87E-03
9101	0.45	1.13E-25
9103	0.21	1.30E-04
9106	-0.41	2.88E-05
9110	-0.37	2.22E-05
9113	-0.30	1.04E-05
9125	-0.47	8.31E-06
9127	-0.30	1.57E-09
9129	0.47	5.13E-29
9132	-0.30	4.56E-11
9135	-0.13	6.49E-03
9136	-0.39	6.92E-04
9138	0.45	1.56E-25
10077	-0.27	1.14E-15
10079	0.30	4.63E-07
10080	-0.30	4.13E-08
10082	-0.17	4.26E-04
10084	0.42	4.59E-13
10087	-0.24	2.07E-07
10092	-0.55	7.42E-31
10095	0.19	1.22E-08
10102	0.29	2.21E-08

A	B	C	A	B	C
645	-0.20	1.74E-04	840	-0.60	2.40E-12
647	0.10	1.42E-03	844	0.20	6.06E-04
649	0.20	2.26E-04	846	-0.30	2.22E-06
652	0.20	1.67E-05	850	-0.20	1.32E-07
653	0.40	4.06E-05	854	-0.20	2.92E-06
655	0.20	1.78E-04	855	0.20	9.23E-04
657	-0.30	3.23E-09	858	-0.20	9.12E-06
663	-0.50	1.10E-14	864	0.20	3.45E-07
664	-0.40	1.30E-22	865	0.30	3.89E-08
667	-0.10	1.85E-03	867	-0.20	1.08E-05
668	-0.40	4.27E-17	870	0.20	1.98E-08
672	0.30	1.83E-13	871	-0.20	1.15E-05
681	0.30	3.86E-10	873	-0.30	2.07E-07
683	0.10	5.75E-03	875	-0.40	5.47E-12
688	0.20	1.29E-08	876	-0.10	9.82E-03
690	-0.40	1.43E-10	879	-0.20	3.80E-03
696	-0.20	7.90E-04	882	-0.20	3.47E-04
697	0.20	4.91E-04	885	-0.30	7.30E-04
703	0.30	2.33E-12	896	0.20	8.10E-04
705	-0.20	3.37E-05	900	0.20	6.59E-07
707	0.20	1.66E-08	901	-0.20	3.79E-04
714	0.10	9.84E-03	910	-0.30	8.98E-03
718	-0.30	2.28E-10	912	0.30	3.02E-07
722	0.20	9.99E-05	916	0.10	9.82E-03
723	-0.20	6.48E-04	919	0.30	2.27E-07
724	-0.30	6.85E-08	928	0.40	2.05E-19
726	-0.10	3.17E-03	934	-0.20	2.75E-07
730	-0.20	1.12E-03	935	-0.10	5.71E-03
736	0.40	1.31E-20	936	-0.20	2.64E-04
741	0.30	1.04E-03	937	-0.30	4.36E-03
742	0.30	7.85E-04	939	0.40	2.45E-17
746	-0.40	2.71E-03	942	-0.30	2.60E-04
749	-0.20	1.28E-04	944	-0.20	8.56E-04
753	-0.20	8.98E-08	945	0.40	9.66E-21
754	0.20	9.52E-05	948	-0.20	5.25E-06
760	-0.70	2.55E-07	949	-0.40	2.47E-17
761	0.40	5.07E-10	951	-0.20	1.92E-03

762	0.20	3.81E-06	954	0.30	1.34E-13
765	-0.50	2.34E-04	957	0.20	4.37E-03
766	0.30	1.77E-12	958	0.20	3.75E-03
769	-0.30	2.39E-11	960	-0.30	2.15E-08
773	0.20	9.29E-05	962	0.30	7.75E-12
774	-0.20	2.45E-03	963	-0.70	3.87E-14
776	0.40	3.16E-23	964	0.30	1.67E-07
777	-0.30	3.96E-04	975	0.20	7.91E-07
778	0.30	6.15E-06	979	0.20	7.98E-07
779	-0.70	8.23E-24	983	-0.20	1.60E-03
781	0.30	1.09E-07	984	0.30	4.72E-14
782	-0.20	2.05E-05	989	0.10	7.94E-03
784	-0.30	4.37E-06	991	-0.20	1.65E-03
788	-0.40	8.33E-04	992	-0.20	1.08E-03
790	0.40	8.44E-13	994	-0.10	1.53E-03
793	0.40	1.06E-13	996	0.20	4.75E-03
794	0.30	3.02E-05	998	0.20	2.16E-07
799	0.30	9.16E-05	1004	-0.30	4.89E-05
801	-0.60	7.55E-11	1009	-0.20	5.53E-06
808	-0.50	1.07E-18	1012	0.30	1.65E-10
811	0.20	1.21E-03	1016	-0.40	3.17E-17
812	0.20	1.14E-06	1021	0.20	2.31E-07
825	-0.30	3.48E-04	1028	-0.30	3.26E-03
827	0.10	1.79E-03	1029	-0.30	2.29E-09
829	0.40	9.53E-14	1031	-0.40	8.39E-08
833	-0.50	1.81E-03	1032	0.10	7.88E-03
837	-0.20	7.89E-05	1035	-0.20	7.83E-06
1813	0.20	7.48E-07	1980	0.20	2.08E-05
1815	-0.50	6.21E-08	1981	0.40	1.32E-13
1816	0.30	1.03E-05	1986	-0.30	2.27E-04
1820	-0.30	9.42E-06	1988	-0.20	2.91E-03
1823	0.10	2.21E-03	1990	-0.40	2.14E-06
1825	-0.40	4.04E-16	1992	0.30	1.15E-05
1827	-0.30	1.25E-10	1996	0.50	3.65E-16
1829	-0.40	1.02E-06	1997	0.30	7.14E-04
1836	-0.30	4.23E-06	1999	0.10	5.02E-04
1837	0.10	4.46E-03	2002	-0.90	1.65E-08
1846	-0.30	7.13E-07	2004	0.30	3.67E-07
1849	0.30	4.35E-09	2009	-0.30	3.68E-13

1853	0.40	3.51E-09	2014	0.20	1.26E-03
1856	0.10	6.32E-03	2015	-0.40	3.43E-05
1857	0.10	7.75E-03	2017	-0.30	7.77E-10
1858	-0.20	3.59E-07	2018	0.20	4.10E-06
1862	-0.30	7.28E-09	2019	0.20	1.54E-06
1864	-0.20	1.43E-04	2024	0.40	3.39E-12
1867	-0.40	5.66E-07	2030	0.20	1.68E-07
1869	0.40	2.24E-17	2035	-0.10	5.57E-03
1871	-0.20	7.66E-07	2037	-0.10	6.68E-03
1873	0.20	3.16E-03	2038	0.30	3.57E-03
1875	-0.40	2.18E-06	2040	-0.20	7.16E-03
1876	0.30	1.38E-07	2044	-0.30	6.73E-09
1884	-0.40	1.45E-11	2048	0.10	1.27E-03
1887	0.10	2.19E-03	2049	0.30	5.49E-08
1889	-0.40	6.25E-19	2056	-0.20	1.34E-07
1890	0.30	2.03E-06	2057	0.10	2.85E-03
1893	0.30	4.41E-06	2059	0.40	5.52E-16
1896	0.10	9.71E-03	2068	0.10	8.96E-03
1900	0.40	2.53E-08	2071	0.20	1.01E-03
1901	-0.20	3.76E-03	2075	-0.40	4.22E-17
1902	-0.20	3.80E-03	2077	0.40	2.21E-22
1903	-0.20	3.33E-03	2078	-0.20	2.93E-05
1905	-0.30	4.80E-04	2088	0.20	1.54E-07
1906	-0.30	6.81E-06	2089	-0.20	1.38E-03
1907	-0.20	7.02E-04	2090	-0.20	3.18E-07
1910	0.40	1.76E-08	2093	-0.30	1.02E-17
1912	0.20	1.98E-03	2094	-0.30	1.81E-09
1914	0.10	1.06E-03	2101	-0.20	1.93E-03
1922	-0.10	1.12E-03	2105	0.30	1.61E-08
1924	-0.30	2.60E-06	2107	0.50	1.02E-20
1926	0.20	1.88E-05	2110	0.20	4.16E-05
1927	-0.30	7.54E-05	2114	-0.40	1.83E-05
1928	-0.40	1.65E-14	2115	-0.40	2.00E-03
1929	0.30	1.94E-12	2116	-0.20	9.61E-03
1930	0.30	1.87E-12	2117	-0.20	2.09E-03
1931	0.20	4.08E-03	2118	0.30	6.65E-08
1932	-0.30	6.33E-04	2121	0.20	5.96E-03
1938	-0.30	1.33E-07	2123	0.30	1.61E-06
1939	0.30	1.50E-15	2126	0.40	4.59E-16
1941	0.50	1.99E-27	2131	-0.50	1.07E-07

1942	-0.20	9.93E-04	2132	-0.30	4.97E-03
1944	0.10	5.10E-03	2134	0.20	1.40E-05
1947	0.20	2.39E-03	2137	0.10	1.33E-03
1952	-0.20	2.37E-03	2140	0.20	1.26E-03
1956	0.20	1.38E-03	2141	0.10	3.19E-04
1963	-0.40	3.83E-03	2145	-0.10	1.38E-03
1964	0.20	3.54E-06	2152	-0.20	9.40E-03
1965	0.20	1.27E-03	2162	0.20	4.65E-05
1969	0.30	1.20E-07	2163	-0.20	4.40E-04
1971	0.20	1.31E-08	2172	0.30	4.36E-10
1974	-0.20	2.10E-06	2177	0.10	1.09E-03
1978	-0.30	1.92E-05	2178	0.20	5.85E-03
2997	0.20	1.69E-08	3188	-0.20	8.99E-07
2998	-0.30	1.57E-05	3189	-0.40	3.20E-16
3003	0.40	1.18E-06	3190	0.40	2.65E-14
3004	0.10	5.83E-03	3191	-0.30	7.86E-08
3008	0.30	1.39E-07	3192	-0.30	1.76E-07
3015	0.10	7.88E-03	3196	-0.20	2.38E-04
3026	-0.20	1.35E-04	3200	0.10	2.24E-03
3027	-0.20	4.93E-05	3206	0.40	3.00E-05
3028	0.10	1.25E-03	3210	0.10	7.89E-04
3029	-0.20	9.44E-03	3213	-0.30	7.46E-03
3031	0.40	1.44E-05	3217	-0.20	1.29E-05
3033	-0.50	2.01E-06	3218	-0.30	2.70E-11
3034	0.30	2.47E-11	3220	0.20	1.49E-06
3037	-0.20	3.42E-06	3222	0.20	4.06E-06
3040	-0.10	6.58E-04	3227	-0.20	2.28E-04
3042	0.20	1.52E-04	3235	-0.10	5.35E-03
3044	-0.40	6.71E-09	3239	-0.20	1.10E-03
3048	0.40	2.02E-16	3240	-0.20	1.10E-03
3050	-0.60	1.37E-19	3241	-0.40	2.43E-07
3053	0.30	4.15E-10	3245	0.30	5.16E-09
3057	-0.20	1.17E-03	3248	-0.30	2.71E-04
3066	0.10	4.00E-03	3254	-0.20	7.68E-04
3068	0.20	5.95E-04	3257	0.10	2.53E-03
3069	0.20	4.06E-05	3258	0.20	2.33E-05
3072	0.20	6.28E-05	3260	0.20	1.93E-05
3077	0.10	6.96E-03	3263	0.20	4.90E-06
3079	-0.30	3.93E-10	3266	0.20	6.21E-05

3089	-0.30	6.88E-09	3272	0.30	8.32E-09
3092	0.40	9.63E-06	3275	-0.20	2.10E-03
3094	-0.10	4.64E-05	3276	-0.10	5.37E-03
3097	-0.10	3.97E-03	3277	-0.10	5.22E-03
3100	-0.30	1.65E-05	3281	-0.40	4.64E-06
3102	0.30	7.76E-05	3286	0.30	1.89E-13
3103	-0.20	8.06E-05	3289	-0.30	7.11E-04
3104	-0.10	1.42E-03	3302	0.20	9.53E-07
3107	-0.30	1.03E-03	3303	0.20	9.25E-07
3113	-0.20	1.37E-03	3310	0.20	1.63E-06
3114	0.20	3.40E-04	3312	-0.40	7.20E-21
3115	-0.20	3.83E-05	3313	-0.40	2.13E-19
3117	0.40	3.41E-05	3315	-0.20	8.93E-04
3118	-0.30	1.33E-06	3317	0.40	1.70E-17
3122	0.20	9.00E-06	3321	0.40	1.45E-22
3124	-0.30	6.64E-16	3322	-0.30	5.41E-07
3125	-0.20	9.49E-05	3325	-0.30	2.46E-03
3129	0.30	3.60E-14	3327	-0.20	2.99E-03
3142	0.20	1.49E-08	3328	0.10	5.66E-03
3143	-0.20	1.10E-05	3333	0.20	3.55E-03
3144	-0.30	1.64E-12	3334	-0.30	4.42E-05
3145	-0.30	1.31E-12	3340	0.20	2.61E-07
3146	0.20	1.50E-04	3341	-0.30	9.18E-08
3149	0.20	1.49E-03	3343	-0.10	8.82E-06
3152	0.20	9.36E-05	3344	-0.20	1.86E-08
3153	-0.30	1.64E-08	3353	0.40	1.98E-14
3158	-0.20	1.90E-05	3359	-0.30	1.15E-10
3165	-0.50	3.96E-15	3367	0.30	3.44E-08
3166	-0.20	2.67E-06	3371	0.40	2.73E-16
3167	-0.20	5.11E-03	3372	-0.20	6.78E-10
3168	0.20	7.10E-07	3374	-0.30	4.59E-06
3170	0.20	7.22E-03	3379	-0.50	2.38E-09
3177	-0.40	4.17E-06	3382	0.10	8.24E-03
3178	-0.10	8.41E-03	3390	0.20	7.80E-04
3180	-0.20	5.01E-07	3391	0.30	1.74E-14
3183	-0.40	1.53E-13	3392	0.30	1.66E-06
3184	0.40	1.03E-20	3394	0.20	1.09E-03
4158	0.10	1.90E-03	4332	-0.20	3.86E-04
4159	0.30	3.98E-09	4333	-0.30	1.59E-05

4163	-0.20	5.66E-03	4334	0.40	1.24E-22
4164	0.10	2.74E-03	4335	0.30	1.09E-06
4165	-0.20	1.85E-05	4341	0.20	2.14E-03
4166	-0.20	3.34E-08	4343	0.20	3.71E-04
4167	0.20	5.02E-04	4345	0.20	1.06E-05
4169	-0.20	1.53E-03	4352	0.30	6.45E-13
4170	0.50	8.65E-20	4354	0.20	5.37E-07
4184	-0.20	5.73E-04	4357	-0.20	1.83E-03
4185	0.10	1.31E-03	4358	0.50	2.45E-08
4186	-0.20	3.02E-03	4362	-0.40	4.53E-12
4187	0.30	8.03E-07	4379	-0.70	2.26E-06
4194	-0.20	1.02E-06	4386	-0.30	5.30E-10
4196	0.10	3.07E-03	4387	-0.20	1.78E-04
4197	-0.20	2.02E-05	4395	0.20	1.16E-04
4202	0.30	2.58E-13	4396	0.30	2.63E-12
4203	0.20	1.19E-04	4398	-0.20	3.62E-07
4204	-0.20	6.34E-05	4399	0.30	9.63E-06
4205	0.20	1.09E-07	4400	-0.40	1.42E-05
4211	0.20	1.15E-03	4401	-0.40	1.50E-08
4214	-0.40	2.13E-07	4405	-0.40	6.53E-05
4215	0.30	5.20E-09	4407	-0.10	5.64E-03
4217	0.10	1.07E-03	4409	-0.10	1.78E-03
4219	0.40	1.19E-09	4410	-0.20	5.74E-03
4230	-0.30	2.91E-05	4415	-0.30	5.94E-08
4231	0.30	1.53E-12	4417	0.30	3.78E-12
4234	-0.50	1.62E-17	4419	-0.20	2.24E-03
4236	0.30	2.67E-05	4425	0.30	1.38E-09
4241	0.20	4.88E-03	4426	-0.40	9.51E-09
4244	-0.30	6.48E-10	4427	-0.20	4.53E-04
4245	-0.40	4.15E-07	4430	0.20	3.03E-06
4246	-0.30	5.40E-09	4435	-0.40	1.12E-04
4248	-0.50	1.78E-06	4440	-0.20	6.79E-03
4249	0.20	2.92E-04	4445	0.20	1.55E-03
4252	-0.30	1.00E-11	4446	-0.50	7.02E-18
4259	0.40	7.27E-17	4450	-0.30	8.20E-09
4261	0.20	1.28E-08	4454	0.20	6.11E-04
4264	-0.20	9.90E-04	4464	-0.30	3.68E-03
4265	0.30	1.77E-10	4467	0.10	6.51E-03
4266	-0.30	4.69E-04	4468	-0.20	1.14E-04
4268	-0.20	5.63E-06	4469	-0.20	3.37E-03

4270	-0.20	1.47E-03	4471	-0.40	3.24E-03
4271	-0.40	4.71E-05	4472	-0.20	1.45E-05
4272	0.20	3.14E-04	4473	-0.40	3.06E-05
4274	-0.30	3.67E-08	4476	-0.10	1.26E-03
4276	-0.30	5.68E-07	4478	-0.40	2.63E-12
4277	-0.20	6.41E-05	4481	0.20	9.59E-05
4278	-0.10	1.00E-03	4482	-0.20	3.23E-04
4279	-0.20	1.40E-05	4485	-0.30	5.40E-10
4285	0.30	1.68E-08	4486	0.30	5.95E-05
4289	0.10	4.13E-03	4487	0.40	1.75E-26
4297	0.40	7.10E-17	4493	-0.40	1.89E-10
4298	-0.20	1.81E-03	4501	0.30	1.26E-06
4299	-0.30	3.14E-08	4505	0.20	4.01E-05
4301	-0.50	4.88E-12	4508	0.20	1.54E-04
4304	0.30	1.62E-04	4515	0.20	3.48E-06
4313	0.30	3.59E-11	4517	0.20	1.08E-05
4315	-0.20	4.31E-06	4522	-0.20	5.23E-04
4319	-0.20	1.30E-03	4523	0.20	4.36E-08
4321	-0.30	1.01E-03	4525	-0.30	6.25E-08
4326	-0.20	3.48E-03	4528	-0.30	1.20E-05
4327	0.20	2.40E-05	4529	-0.50	2.38E-04
4328	0.20	3.35E-04	4530	0.20	3.82E-03
5322	0.40	4.66E-05	5499	0.20	3.98E-04
5326	-0.20	1.11E-04	5501	0.20	3.29E-07
5328	-0.20	6.71E-03	5502	0.20	8.50E-07
5329	-0.50	4.20E-08	5505	-0.50	1.07E-07
5330	0.10	1.08E-03	5509	0.20	4.86E-06
5331	-0.20	9.31E-05	5511	-0.30	1.99E-08
5333	-0.30	3.10E-07	5512	-0.20	6.40E-03
5334	-0.30	4.29E-07	5513	-0.30	1.26E-08
5338	0.10	4.48E-03	5518	-0.30	2.03E-05
5340	-0.40	2.17E-04	5522	-0.50	1.56E-23
5343	0.20	1.80E-07	5527	0.30	1.84E-09
5344	0.40	2.17E-26	5536	-0.30	8.53E-09
5345	0.50	4.55E-36	5537	-0.10	9.14E-03
5348	0.30	1.37E-08	5539	-0.20	9.80E-06
5350	0.20	1.96E-06	5540	-0.20	7.37E-03
5353	0.40	2.83E-18	5546	-0.20	1.53E-04
5356	-0.20	1.56E-03	5548	0.20	8.77E-05

5360	0.20	2.01E-03	5552	-0.20	2.20E-05
5361	-0.20	9.93E-04	5554	-0.30	3.95E-04
5368	0.10	2.69E-03	5565	0.20	3.16E-03
5369	-0.20	2.97E-04	5567	-0.10	8.87E-03
5372	-0.30	1.43E-03	5570	0.50	4.10E-30
5377	0.10	6.64E-03	5571	0.30	8.07E-05
5379	-0.30	7.96E-09	5574	-0.30	1.71E-12
5381	0.20	8.88E-08	5577	0.20	3.33E-03
5383	0.20	3.67E-03	5578	0.20	1.82E-03
5384	0.10	2.63E-03	5580	-0.40	6.43E-13
5390	0.10	1.09E-04	5585	0.20	3.99E-06
5391	-0.30	1.05E-07	5590	0.40	8.98E-16
5397	0.10	8.73E-03	5592	0.20	7.09E-09
5399	-0.30	3.25E-10	5593	-0.30	4.59E-06
5402	-0.20	5.78E-09	5594	-0.10	8.21E-04
5411	-0.20	3.73E-03	5596	-0.30	1.00E-07
5412	-0.20	4.21E-05	5597	-0.30	1.24E-07
5414	-0.40	4.83E-19	5601	-0.10	9.10E-03
5417	0.20	2.91E-04	5602	-0.30	1.67E-09
5418	0.10	4.85E-05	5605	-0.50	1.35E-10
5419	0.30	8.54E-09	5606	-0.50	3.41E-09
5426	-0.20	4.42E-03	5608	-0.50	6.93E-27
5427	-0.20	4.58E-03	5611	-0.10	5.04E-03
5429	0.40	2.72E-12	5614	-0.40	1.56E-05
5431	-0.50	8.37E-05	5619	0.40	2.76E-14
5432	0.30	4.52E-19	5623	0.20	1.03E-05
5435	0.20	4.07E-07	5624	-0.20	4.83E-05
5437	0.10	2.82E-03	5625	-0.40	3.88E-10
5438	0.20	3.37E-04	5626	0.20	1.52E-04
5439	-0.30	2.21E-03	5627	0.30	1.41E-08
5440	-0.30	2.17E-04	5632	0.10	4.02E-03
5446	0.30	1.59E-13	5637	0.20	1.40E-04
5461	-0.30	1.72E-07	5638	0.30	1.15E-06
5463	-0.20	2.53E-05	5639	-0.30	6.01E-10
5465	0.20	2.03E-04	5646	-0.10	5.49E-03
5466	-0.30	1.89E-10	5647	-0.20	2.02E-05
5470	-0.40	1.03E-15	5648	-0.30	2.88E-05
5473	-0.20	5.33E-07	5654	-0.20	3.76E-03
5475	0.40	6.57E-07	5665	0.10	4.23E-03
5480	0.40	1.73E-13	5668	-0.30	7.43E-08

5485	-0.30	3.43E-03	5670	0.30	1.44E-11
5486	-0.30	3.47E-03	5674	-0.70	5.33E-25
5489	-0.10	7.62E-03	5677	0.20	2.85E-06
5491	0.30	4.69E-09	5682	0.20	3.43E-09
5493	-0.20	1.33E-03	5684	0.20	3.29E-03
5494	-0.20	4.76E-04	5688	-0.30	1.79E-06
5495	0.30	3.26E-05	5691	0.30	3.66E-08
6397	-0.20	8.13E-03	6572	-0.30	1.18E-05
6398	-0.40	1.41E-11	6576	0.30	4.66E-05
6402	-0.40	4.80E-07	6577	0.20	2.32E-04
6404	0.20	7.51E-05	6580	-0.20	1.56E-03
6405	0.10	9.08E-03	6582	0.30	7.46E-15
6406	0.20	2.25E-04	6583	-0.20	1.54E-08
6408	0.40	9.34E-18	6584	-0.10	2.11E-03
6411	-0.20	6.48E-05	6585	-0.20	1.02E-04
6412	0.20	1.59E-06	6587	0.20	7.99E-07
6415	-0.30	4.11E-07	6591	0.20	1.82E-03
6416	0.20	7.37E-06	6596	-0.20	2.31E-04
6417	0.40	2.35E-14	6600	0.30	7.94E-11
6420	-0.20	1.59E-08	6601	-0.20	3.44E-05
6428	-0.20	3.22E-03	6605	0.10	8.61E-03
6431	-0.70	3.81E-09	6606	0.30	5.94E-05
6433	-0.10	2.83E-03	6615	0.20	9.39E-07
6436	0.40	2.22E-20	6617	0.40	1.98E-06
6437	0.30	8.21E-07	6619	-0.20	1.08E-05
6438	0.10	1.52E-03	6621	-0.30	1.61E-10
6439	0.20	2.87E-06	6623	-0.20	8.31E-03
6440	0.30	1.90E-12	6626	-0.30	5.28E-11
6441	0.40	6.85E-05	6630	-0.20	7.74E-05
6452	-0.20	6.98E-03	6633	-0.20	2.47E-03
6454	-0.10	6.63E-03	6635	-0.40	1.83E-08
6455	0.20	1.72E-04	6639	0.30	3.58E-16
6459	0.20	9.56E-05	6640	-0.30	3.95E-06
6461	-0.30	5.36E-05	6643	0.30	2.30E-14
6464	-0.20	6.28E-06	6644	-0.10	2.80E-03
6468	-0.40	5.96E-08	6647	0.20	3.64E-04
6473	-0.20	7.16E-03	6648	-0.60	1.23E-06
6474	0.10	5.64E-03	6651	-0.30	5.28E-05
6477	0.20	2.12E-03	6654	-0.20	3.73E-03

6478	0.20	8.72E-07	6658	-0.20	3.81E-04
6485	-0.20	3.01E-05	6659	0.40	1.95E-20
6487	0.20	2.12E-07	6660	-0.50	8.45E-16
6493	-0.50	1.94E-06	6661	-0.20	3.80E-03
6498	-0.20	8.50E-08	6662	-0.20	4.29E-03
6502	-0.40	3.22E-05	6668	0.20	2.34E-05
6504	-0.10	7.44E-03	6669	0.10	1.34E-03
6505	-0.20	7.11E-08	6671	-0.30	6.67E-11
6515	0.40	2.76E-09	6675	-0.30	1.50E-05
6520	0.20	2.55E-05	6676	-0.20	5.44E-04
6521	-0.20	8.51E-04	6678	0.40	3.04E-10
6522	0.10	9.18E-03	6679	-0.10	4.57E-03
6523	-0.30	2.82E-14	6681	0.20	2.19E-04
6531	0.40	1.93E-10	6683	-0.30	1.18E-08
6532	-0.40	2.56E-07	6685	-0.20	6.04E-04
6535	-0.20	3.08E-05	6686	-0.10	4.00E-03
6540	-0.30	8.66E-12	6688	-0.20	8.22E-03
6544	0.30	1.06E-09	6689	-0.30	4.46E-08
6545	0.20	7.12E-04	6690	-0.40	1.18E-08
6548	-0.10	1.21E-03	6692	0.10	9.99E-04
6549	-0.20	1.06E-03	6693	-0.30	1.99E-03
6550	-0.20	3.16E-06	6694	-0.30	1.64E-03
6551	-0.30	8.89E-05	6695	-0.30	1.88E-03
6555	0.20	1.57E-07	6697	0.40	1.60E-14
6557	0.10	2.58E-03	6698	-0.10	9.92E-03
6561	-0.40	9.70E-05	6701	-0.30	4.41E-04
6564	0.30	6.48E-08	6703	-0.30	2.64E-07
6565	0.20	4.10E-05	6706	-0.20	2.24E-04
6566	-0.20	4.12E-03	6708	-0.30	2.61E-06
6568	-0.20	5.12E-09	6709	0.30	7.05E-08
6570	-0.10	3.00E-03	6714	-0.30	5.83E-09
6571	-0.50	1.31E-06	6716	0.20	1.28E-06
7539	0.11	9.34E-04	7725	0.17	2.51E-05
7540	0.24	1.75E-07	7727	0.31	5.53E-13
7543	-0.17	2.61E-04	7729	0.23	8.26E-06
7545	0.33	1.09E-11	7732	-0.22	3.59E-06
7547	-0.20	1.52E-05	7736	-0.33	3.53E-03
7548	-0.27	2.54E-09	7737	-0.29	8.47E-11
7549	-0.47	1.54E-19	7738	0.33	7.84E-17

7559	0.29	1.45E-10	7742	-0.15	1.55E-03
7560	0.29	2.39E-11	7743	0.14	1.94E-03
7561	0.25	4.20E-08	7745	0.36	3.50E-17
7563	-0.30	1.19E-04	7747	0.17	2.73E-04
7564	-0.20	1.19E-05	7750	0.34	1.00E-08
7565	-0.24	3.34E-04	7751	0.32	4.57E-09
7568	0.29	3.87E-08	7753	0.30	1.01E-08
7569	0.29	2.13E-10	7754	0.12	4.57E-03
7570	-0.29	2.42E-12	7755	0.19	1.35E-09
7571	0.19	1.67E-07	7759	-0.22	5.91E-07
7572	0.13	2.69E-03	7760	0.20	4.77E-03
7573	0.43	2.66E-17	7763	-0.21	3.60E-05
7575	-0.46	2.35E-07	7770	0.20	1.26E-03
7578	-0.35	1.07E-08	7777	-0.35	2.18E-13
7580	0.18	5.05E-05	7779	-0.42	3.02E-03
7581	-0.16	2.05E-06	7781	0.24	1.10E-07
7582	-0.28	1.53E-09	7782	-0.23	4.80E-06
7584	0.22	9.50E-07	7785	-0.30	4.41E-06
7594	-0.22	1.38E-05	7788	0.13	3.95E-03
7597	-0.20	5.25E-06	7789	0.14	6.46E-03
7601	-0.35	4.18E-10	7808	-0.37	4.83E-04
7603	-0.29	3.64E-07	7810	-0.22	8.99E-06
7605	-0.41	1.20E-12	7812	-0.19	7.37E-03
7606	0.22	3.90E-06	7815	-0.40	2.50E-13
7611	-0.12	6.92E-03	7816	-0.30	3.35E-08
7612	0.23	8.67E-04	7822	-0.44	4.12E-21
7619	0.14	2.72E-03	7823	0.23	7.29E-09
7629	0.15	6.34E-03	7827	-0.34	2.92E-12
7635	-0.36	9.12E-07	7828	-0.41	1.96E-11
7642	-0.13	1.14E-03	7832	0.15	2.10E-03
7644	-0.23	1.29E-08	7841	0.33	2.00E-05
7645	-0.24	2.29E-03	7843	0.22	1.61E-07
7648	-0.42	2.49E-03	7854	-0.47	2.23E-06
7649	-0.41	1.85E-09	7857	-0.23	3.07E-03
7652	-0.24	1.32E-04	7858	-0.29	4.86E-08
7656	0.11	8.13E-03	7859	-0.18	5.24E-05
7657	0.13	3.60E-03	7860	-0.58	2.74E-15
7658	-0.84	1.60E-06	7861	-0.27	3.54E-05
7659	-0.44	3.72E-11	7862	0.17	1.13E-04
7660	0.42	9.68E-14	7863	0.27	3.40E-09

7665	0.37	2.42E-17	7869	-0.35	5.00E-03
7668	-0.27	8.78E-05	7871	0.49	3.66E-24
7684	-0.16	5.76E-03	7873	0.14	1.21E-03
7688	-0.25	9.07E-08	7875	-0.16	3.28E-03
7689	0.33	1.74E-16	7876	-0.32	2.88E-11
7690	-0.39	4.59E-17	7877	-0.18	1.41E-04
7691	-0.39	1.57E-17	7879	-0.36	2.17E-11
7693	-0.27	1.20E-05	7885	0.34	1.21E-07
7694	-0.30	9.14E-03	7888	0.18	6.38E-05
7699	0.18	1.40E-04	7889	-0.30	3.30E-11
7701	-0.15	1.38E-03	7891	-0.17	5.48E-05
7703	0.14	4.82E-03	7894	0.14	4.99E-03
7708	-0.11	9.12E-03	7900	-0.49	7.28E-14
7721	-0.46	8.71E-14	7901	0.20	3.11E-05
7722	-0.73	1.68E-11	7908	-0.21	1.16E-05
7723	-0.37	2.17E-06	7911	-0.56	5.14E-04
7724	0.14	2.07E-03	7914	0.15	2.84E-04
8616	-0.23	1.22E-06	8771	0.16	4.38E-03
8617	0.32	2.23E-07	8773	-0.41	5.27E-17
8624	0.14	2.48E-03	8774	0.23	4.93E-08
8627	-0.31	2.90E-08	8780	0.20	4.16E-04
8630	0.21	1.46E-03	8782	0.14	2.11E-03
8642	-0.31	3.38E-04	8784	-0.20	8.42E-03
8646	0.17	1.24E-03	8789	-0.33	4.47E-04
8647	-0.32	3.17E-10	8792	-0.41	2.34E-07
8648	-0.20	9.12E-04	8793	0.23	5.45E-07
8650	-0.32	5.93E-06	8795	-0.13	1.14E-03
8651	-0.27	2.43E-05	8797	-0.20	1.33E-06
8654	0.31	7.64E-08	8800	0.45	5.21E-13
8656	0.14	2.15E-03	8801	-0.26	2.92E-04
8659	-0.26	1.29E-04	8805	-0.30	5.77E-12
8662	-0.52	3.17E-03	8810	-0.24	3.61E-08
8664	0.19	1.29E-04	8814	-0.21	1.05E-03
8666	-0.37	8.57E-03	8820	-0.17	1.81E-04
8668	-0.21	7.16E-05	8822	-0.21	2.80E-05
8674	-0.10	1.40E-03	8824	-0.51	1.09E-12
8676	-0.35	4.58E-13	8825	-0.12	7.08E-03
8679	0.17	5.40E-05	8834	0.31	2.71E-11
8683	-0.31	2.10E-06	8838	-0.18	2.81E-03

8686	0.12	2.04E-03	8839	-0.69	3.72E-17
8688	-0.23	3.67E-06	8841	-0.20	2.54E-04
8689	0.24	3.20E-07	8843	-0.16	4.09E-04
8690	-0.25	6.04E-05	8846	-0.17	3.61E-03
8692	-0.23	3.69E-03	8848	-0.43	3.69E-19
8693	-0.55	7.57E-20	8849	-0.73	7.97E-13
8694	0.26	1.78E-08	8851	-0.14	3.48E-03
8699	0.24	1.25E-08	8854	-0.32	1.44E-04
8700	0.50	5.88E-18	8855	-0.31	3.76E-10
8703	0.22	7.96E-04	8857	0.17	9.22E-05
8704	-0.27	6.79E-05	8859	-0.15	9.53E-04
8705	-0.25	2.49E-03	8860	-0.45	5.53E-04
8706	-0.24	7.38E-03	8861	-0.16	6.97E-04
8707	-0.62	1.69E-08	8865	-0.32	5.71E-11
8708	-0.63	1.92E-08	8866	-0.13	3.27E-03
8710	-0.53	3.61E-13	8867	0.29	3.59E-10
8712	-0.29	2.96E-08	8880	-0.15	1.71E-03
8713	-0.23	7.86E-04	8883	-0.52	2.56E-04
8715	-0.33	2.84E-12	8888	0.23	4.57E-08
8720	-0.17	1.17E-04	8893	0.24	2.08E-08
8724	0.29	6.88E-08	8898	-0.24	4.14E-09
8726	-0.18	1.22E-03	8899	-0.24	2.67E-08
8728	-0.74	8.68E-33	8902	0.22	8.11E-04
8729	-0.24	3.49E-03	8903	0.23	4.79E-04
8731	0.16	2.87E-04	8904	-0.23	4.06E-05
8732	0.15	2.60E-04	8908	-0.43	1.55E-23
8733	-0.40	1.71E-12	8910	0.41	1.81E-20
8735	0.12	5.06E-03	8911	0.23	8.68E-08
8740	0.33	1.07E-20	8913	0.14	5.50E-03
8744	-0.40	6.22E-13	8914	0.30	9.40E-08
8745	-0.21	3.64E-05	8915	-0.16	5.87E-03
8747	0.17	5.74E-05	8916	-0.16	6.47E-03
8749	0.19	1.32E-04	8919	-0.28	3.61E-07
8752	0.18	1.03E-03	8922	-0.26	7.99E-10
8754	0.32	2.11E-07	8928	-0.28	8.24E-08
8756	0.14	1.91E-03	8934	-0.16	3.06E-03
8757	-0.41	1.01E-17	8941	-0.35	1.32E-04
8759	-0.53	3.53E-06	8946	-0.31	1.07E-03
8763	0.12	6.24E-03	8952	0.31	9.04E-10

8764	-0.42	1.19E-04	8954	0.43	9.22E-22
8766	0.14	2.09E-03	8955	0.12	3.23E-03
8767	-0.30	8.29E-07	8957	0.21	2.99E-06
9694	0.33	7.34E-11	9870	0.12	9.58E-03
9695	-0.54	3.35E-07	9874	-0.34	1.36E-12
9696	-0.26	1.70E-04	9876	0.25	3.76E-09
9698	0.32	2.80E-14	9882	0.14	3.02E-03
9699	-0.30	2.27E-08	9891	0.24	8.30E-08
9700	0.19	1.09E-04	9899	0.27	7.93E-10
9701	-0.30	1.47E-06	9900	-0.34	1.48E-03
9707	-0.27	3.02E-08	9905	0.34	2.82E-05
9711	-0.13	1.47E-04	9908	0.21	1.06E-06
9712	-0.50	1.25E-03	9913	-0.30	2.75E-10
9714	0.28	1.78E-11	9914	-0.26	4.29E-03
9715	-0.31	1.24E-12	9917	-0.32	1.40E-09
9716	0.13	4.81E-03	9919	0.22	6.97E-07
9718	-0.23	4.79E-07	9922	-0.27	1.10E-07
9719	-0.23	4.71E-08	9924	0.12	4.08E-03
9722	-0.19	3.36E-04	9925	0.14	1.53E-03
9723	0.38	4.00E-09	9927	0.34	1.83E-10
9725	-0.12	9.86E-03	9928	0.34	1.70E-08
9730	-0.37	2.87E-09	9929	0.19	7.40E-03
9732	-0.35	1.91E-05	9932	-0.21	6.51E-04
9733	0.21	3.49E-07	9936	0.16	1.12E-05
9734	0.20	2.00E-03	9945	-0.23	2.59E-07
9736	-0.15	1.71E-03	9946	0.42	4.53E-21
9738	-0.19	2.37E-04	9951	-0.19	2.08E-03
9746	0.46	1.36E-13	9952	0.26	1.91E-07
9747	-0.42	3.41E-06	9956	0.24	6.56E-05
9749	0.18	1.33E-05	9957	-0.38	5.57E-11
9750	0.24	2.54E-06	9959	0.39	2.19E-19
9753	0.16	1.31E-03	9961	0.29	4.48E-11
9757	-0.62	3.82E-05	9964	0.33	1.53E-10
9763	0.33	1.38E-10	9975	-0.15	1.57E-05
9766	0.41	1.40E-07	9982	-0.27	1.04E-09
9767	-0.62	1.26E-07	9987	-0.23	4.88E-07
9769	0.20	4.75E-03	9993	-0.15	5.97E-06
9771	-0.29	1.45E-09	9994	0.17	9.40E-05
9774	-0.19	9.75E-05	9995	0.53	9.03E-35
9780	-0.23	1.38E-04	10002	-0.16	3.43E-03

9781	-0.17	3.36E-04	10003	-0.26	2.20E-08
9782	-0.34	5.14E-14	10005	-0.13	8.31E-03
9788	0.26	6.79E-04	10006	-0.17	8.45E-05
9789	0.27	2.60E-06	10011	-0.33	4.51E-12
9796	-0.48	1.06E-03	10015	-0.22	1.48E-08
9809	0.26	8.15E-08	10019	0.15	1.09E-03
9810	0.21	9.47E-07	10021	-0.15	3.72E-03
9815	0.17	6.64E-05	10026	-0.19	6.53E-05
9817	0.15	6.36E-06	10033	0.16	1.08E-04
9818	0.16	1.29E-06	10035	0.35	6.40E-13
9819	-0.14	2.38E-03	10036	-0.30	8.60E-10
9822	-0.23	2.82E-05	10039	-0.21	9.93E-06
9825	-0.19	2.54E-04	10041	0.26	6.63E-04
9833	-0.38	5.28E-05	10043	-0.48	1.07E-03
9835	0.26	1.73E-06	10044	0.18	8.53E-05
9837	-0.28	9.23E-04	10045	-0.43	5.67E-03
9838	-0.21	3.70E-06	10048	-0.14	8.47E-03
9844	0.20	6.81E-04	10053	-0.33	8.29E-05
9851	-0.66	1.97E-10	10054	0.14	1.40E-03
9858	-0.35	1.72E-15	10061	0.33	5.65E-06
9859	-0.50	5.09E-25	10062	-0.40	2.15E-18
9860	-0.23	9.78E-05	10064	-0.37	8.53E-03
9863	-0.25	5.84E-05	10066	-0.22	4.30E-07
9866	-0.18	4.30E-05	10067	0.11	3.71E-04
9867	-0.46	1.03E-19	10069	-0.16	1.59E-04
9868	-0.35	1.07E-08	10074	-0.20	7.00E-03
9869	-0.26	6.22E-05	10076	-0.21	4.47E-06
10983	-0.14	2.53E-03	11290	-0.25	2.43E-07
10985	-0.31	2.58E-12	11291	-0.19	9.91E-04
10987	-0.37	2.52E-07	11292	0.35	4.51E-11
10991	0.23	6.09E-06	11294	-0.25	6.27E-05
10992	-0.21	2.98E-05	11302	0.36	2.99E-10
10995	-0.28	2.28E-06	11305	0.16	2.59E-03
11000	-0.26	3.59E-04	11306	-0.30	4.45E-12
11012	-0.21	2.18E-05	11310	0.11	7.96E-03
11013	-0.21	2.49E-05	11311	-0.32	5.32E-10
11015	0.29	4.33E-04	11312	0.24	2.94E-07
11027	-0.25	8.19E-04	11314	-0.29	1.32E-10
11029	0.36	1.97E-13	11316	-0.28	4.38E-08

11036	-0.27	7.92E-06	11321	-0.35	1.84E-12
11048	-0.52	3.65E-09	11322	-0.22	1.04E-03
11062	0.12	7.37E-03	11323	-0.41	1.06E-09
11075	0.22	2.98E-03	11337	0.26	5.30E-09
11086	-0.23	6.09E-04	11340	0.25	1.10E-08
11088	0.40	1.06E-20	11343	0.34	4.61E-14
11090	0.33	3.71E-08	11344	0.30	2.39E-10
11092	0.14	4.91E-03	11348	-0.33	4.26E-05
11094	0.16	2.03E-03	11352	0.14	5.47E-03
11096	0.50	9.81E-12	11355	-0.36	1.13E-07
11097	-0.16	5.12E-04	11359	-0.24	2.73E-07
11101	0.23	7.90E-07	11360	0.19	4.69E-05
11102	0.35	1.14E-16	11362	-0.53	8.53E-07
11107	-0.14	2.89E-03	11374	-0.12	6.64E-03
11108	-0.15	1.35E-03	11375	-0.23	7.29E-05
11110	-0.26	2.23E-04	11382	-0.30	1.25E-10
11115	-0.19	4.29E-03	11383	0.13	3.20E-03
11117	0.21	5.61E-03	11384	-0.31	7.30E-11
11127	-0.28	1.76E-08	11386	-0.43	1.21E-09
11130	-0.25	1.35E-05	11390	-0.32	8.02E-10
11139	-0.21	5.51E-06	11396	0.27	3.27E-09
11149	0.22	4.35E-07	11400	0.16	1.39E-03
11151	0.39	1.12E-09	11408	-0.31	1.18E-08
11153	-0.29	1.38E-10	11410	-0.17	1.69E-04
11157	-0.20	1.68E-04	11415	-0.56	1.45E-06
11159	0.30	2.51E-13	11417	0.14	4.49E-03
11166	-0.26	2.19E-09	11422	-0.15	7.54E-03
11172	-0.43	2.28E-20	11425	-0.23	1.94E-06
11173	0.35	1.44E-16	11431	-0.19	3.26E-05
11174	0.28	4.49E-09	11432	-0.13	2.93E-03
11181	-0.54	2.51E-11	11439	0.23	2.16E-03
11182	0.15	4.86E-04	11440	-0.21	6.51E-03
11184	0.38	8.58E-19	11443	-0.16	2.93E-03
11188	0.21	3.52E-06	11444	0.29	5.54E-08
11196	0.32	3.46E-14	11446	0.27	6.06E-08
11201	-0.27	1.43E-04	11447	-0.28	3.78E-05
11202	-0.20	9.09E-06	11462	0.23	2.47E-05
11204	-0.24	7.68E-04	11468	-0.44	1.03E-04
11206	-0.19	1.54E-04	11471	0.32	9.22E-14
11210	0.41	1.88E-07	11475	0.17	8.30E-05

11216	-0.18	7.39E-03	11480	-0.16	1.08E-03
11217	-0.22	9.65E-04	11485	-0.35	2.08E-07
11219	-0.16	8.19E-04	11489	0.40	2.71E-06
11224	0.21	2.13E-05	11492	-0.29	1.78E-10
11228	-0.35	8.65E-03	11496	-0.20	4.02E-05
11233	-0.18	1.06E-03	11497	0.51	2.59E-23
11236	-0.28	4.18E-05	11499	0.21	3.11E-06
11244	0.28	5.57E-11	11500	0.21	4.07E-03
11251	0.15	3.66E-04	11501	0.13	2.07E-03
11254	-0.20	1.66E-09	11502	-0.21	1.87E-03
11280	0.22	2.67E-03	11503	-0.21	1.79E-03
11284	-0.27	3.84E-08	11510	0.13	3.74E-03
12675	-0.43	9.88E-17	13184	-0.30	1.32E-07
12679	-0.23	4.51E-04	13191	-0.23	2.57E-04
12682	0.30	2.45E-07	13194	0.21	9.42E-06
12683	-0.27	6.60E-09	13195	-0.14	2.94E-03
12686	0.33	4.31E-04	13199	-0.19	1.39E-03
12693	0.25	4.41E-08	13200	0.20	7.76E-05
12699	-0.26	9.29E-06	13207	0.17	1.20E-03
12702	-0.39	4.46E-03	13211	-0.43	1.13E-05
12705	-0.17	1.53E-04	13212	0.16	1.55E-03
12706	0.17	8.48E-05	13214	0.20	4.39E-06
12711	0.19	3.74E-04	13215	0.12	6.64E-03
12715	-0.25	1.02E-03	13218	-0.21	8.58E-03
12725	-0.58	7.63E-20	13230	-0.19	1.85E-05
12728	-0.45	3.35E-09	13236	-0.46	1.42E-03
12730	-0.12	6.76E-03	13238	-0.20	4.25E-06
12740	-0.23	1.88E-06	13244	0.30	8.64E-03
12742	-0.18	1.46E-03	13254	0.23	3.41E-07
12752	-0.27	2.92E-07	13255	-0.17	6.55E-04
12754	-0.18	7.75E-03	13258	-0.32	1.06E-03
12757	0.24	4.50E-04	13264	-0.20	3.74E-06
12766	-0.41	2.53E-08	13276	0.20	6.86E-06
12781	-0.23	4.09E-05	13279	-0.47	2.68E-05
12786	0.18	3.86E-04	13296	0.17	1.85E-03
12788	-0.42	1.93E-04	13302	0.19	9.84E-06
12794	-0.24	1.60E-07	13305	-0.51	5.60E-12
12795	0.17	5.02E-05	13306	-0.39	8.37E-04
12798	-0.17	1.39E-04	13308	-0.34	2.40E-04

12799	0.48	9.81E-23	13310	0.34	6.99E-14
12804	-0.32	3.34E-03	13312	-0.19	1.08E-04
12814	-0.45	7.16E-05	13315	-0.68	5.35E-04
12816	-0.37	1.88E-08	13323	-0.30	8.76E-03
12820	0.21	2.54E-03	13326	0.29	3.47E-05
12827	-0.32	2.29E-04	13328	0.37	2.73E-12
12828	-0.15	1.71E-03	13332	-0.21	4.77E-03
12833	-0.30	4.36E-10	13336	-0.16	1.28E-03
12837	0.16	3.42E-04	13349	0.16	1.17E-03
12840	-0.56	3.10E-08	13352	-0.18	8.60E-04
12847	-0.32	2.22E-04	13355	-0.17	1.78E-04
12849	-0.19	2.12E-05	13365	-0.46	1.31E-04
12850	0.24	3.57E-09	13367	0.28	1.19E-11
12856	0.12	6.33E-03	13368	-0.42	5.43E-05
12864	-0.26	6.10E-03	13372	-0.15	8.46E-04
12865	0.42	3.78E-07	13378	-0.55	3.81E-08
12876	-0.25	7.74E-06	13381	-0.29	1.25E-03
12881	0.21	1.69E-06	13382	0.40	8.08E-10
12882	-0.27	7.86E-05	13383	0.21	1.59E-04
12885	0.27	3.44E-10	13384	-0.14	3.50E-03
12887	0.27	5.72E-08	13389	-0.13	4.25E-03
12888	-0.32	1.54E-09	13394	-0.17	5.85E-04
12889	0.36	4.82E-16	13396	-0.13	1.90E-03
12894	-0.27	6.35E-04	13404	-0.43	7.15E-04
12902	-0.33	2.91E-10	13406	-0.18	1.68E-04
12905	-0.43	1.05E-15	13407	0.15	6.52E-04
12907	0.15	2.22E-03	13413	0.22	2.94E-03
12909	-0.17	2.83E-04	13434	0.22	1.18E-06
12914	-0.17	6.63E-03	13441	0.31	6.17E-12
12927	-0.48	2.61E-25	13457	-0.23	2.35E-05
12929	-0.21	2.70E-05	13460	0.21	4.80E-03
12933	-0.31	5.41E-05	13466	-0.31	2.71E-12
12935	0.15	7.08E-04	13472	-0.39	9.30E-05
12938	-0.42	8.00E-06	13475	-0.20	2.67E-05
12940	0.25	2.00E-08	13485	0.50	3.11E-15
12941	-0.34	2.40E-04	13491	-0.67	4.85E-04
12945	0.15	3.92E-03	13495	0.13	3.38E-03
12948	-0.35	8.23E-07	13496	-0.15	3.46E-03
12952	0.19	7.40E-06	13501	-0.21	2.53E-06

12958	-0.19	1.74E-04	13517	-0.26	2.28E-05
12962	0.18	1.88E-03	13519	0.40	7.10E-09
12969	0.11	8.84E-04	13523	0.21	1.11E-04
12977	0.37	9.51E-12	13526	0.18	3.28E-05
12979	-0.26	2.25E-07	13527	-0.48	4.12E-28
12980	-0.25	3.97E-04	13529	0.23	3.06E-05
12981	0.22	1.11E-05	13538	-0.30	1.19E-09
12987	0.16	9.53E-05	13540	-0.60	2.52E-05
12993	0.36	5.42E-17	13552	0.16	2.40E-04
12994	-0.38	7.02E-15	13561	-0.19	2.56E-03
12995	0.15	1.32E-03	13565	-0.29	3.28E-10
12996	0.17	1.26E-04	13578	0.40	1.25E-19
12998	0.17	1.81E-04	13592	-0.45	5.94E-04
13000	-0.33	1.49E-15	13608	0.36	2.94E-16
13002	-0.21	2.90E-05	13609	0.24	1.19E-07
13003	-0.27	1.19E-05	13612	-0.15	2.55E-03
13006	0.19	4.74E-04	13615	0.21	4.22E-04
13009	-0.26	4.32E-08	13618	0.14	1.76E-03
13010	0.17	1.39E-04	13626	-0.43	2.52E-03
13018	-0.26	3.67E-06	13629	0.33	2.13E-15
13020	0.20	2.81E-06	13631	-0.19	6.33E-04
13025	0.22	1.34E-04	13632	-0.20	3.14E-03
13029	0.17	4.67E-04	13635	-0.20	3.61E-06
13031	-0.50	1.16E-05	13637	-0.35	1.73E-12
13040	-0.31	7.49E-05	13652	-0.14	4.53E-03
13043	0.19	8.20E-06	13654	-0.18	1.48E-03
13051	0.39	3.13E-19	13656	-0.17	5.50E-06
13055	0.20	2.55E-05	13663	-0.21	8.98E-06
13063	-0.17	6.73E-03	13668	0.43	3.94E-11
13065	-0.31	3.35E-10	13689	-0.48	5.17E-07
13070	-0.48	6.35E-04	13700	-0.22	1.08E-05
13075	0.19	1.27E-05	13702	-0.24	6.61E-06
13080	0.19	4.47E-05	13706	0.22	5.77E-05
13083	-0.13	9.62E-03	13707	-0.70	9.84E-12
13086	-0.33	4.34E-03	13710	0.16	7.67E-05
13089	-0.31	4.46E-07	13711	0.34	4.59E-05
13103	0.11	7.32E-03	13712	-0.13	5.95E-03
13105	0.15	4.03E-03	13713	-0.14	2.79E-03
13107	-0.14	2.21E-03	13725	0.19	7.02E-03
13108	0.14	1.62E-03	13727	-0.25	4.70E-06

13111	0.29	2.93E-11	13740	0.17	3.33E-04
13122	-0.16	4.97E-03	13741	-0.19	1.41E-04
13123	-0.28	1.20E-04	13743	-0.22	2.22E-03
13124	-0.11	1.90E-03	13755	0.20	1.41E-03
13126	-0.29	3.03E-10	13763	-0.38	9.59E-05
13128	-0.32	1.79E-05	13767	-0.16	2.54E-04
13132	0.15	4.16E-04	13772	0.18	2.84E-05
13139	0.44	1.25E-18	13775	-0.28	1.58E-04
13142	-0.49	1.34E-07	13783	-0.20	1.03E-05
13143	0.44	4.61E-20	13784	-0.22	5.48E-03
13149	0.38	1.25E-13	13786	0.20	9.43E-03
13151	-0.39	6.37E-08	13791	0.26	1.03E-09
13153	-0.16	4.62E-04	13793	-0.30	3.30E-08
13161	-0.35	2.26E-16	13795	0.30	3.90E-11
13171	0.19	2.43E-03	13805	0.14	9.63E-04
13173	0.16	3.44E-04	13812	-0.22	3.52E-06
13175	0.12	9.07E-03	13813	-0.26	2.06E-08
13178	0.14	8.16E-04	13814	-0.40	7.23E-07
13179	0.13	9.88E-03	13816	0.19	4.89E-03
15281	-0.15	7.56E-04	15340	-0.15	9.65E-04
15283	0.13	7.24E-03	15348	-0.12	2.60E-03
15291	0.33	4.00E-11	15241	0.18	8.26E-05
15293	-0.22	1.60E-05	15243	-0.36	3.27E-07
15302	0.15	8.73E-03	15244	-0.53	7.89E-11
15309	0.19	8.46E-06	15252	0.33	7.25E-11
15320	-0.53	8.57E-08	15260	-0.43	7.39E-18
15327	-0.28	2.85E-04	15238	-0.22	4.44E-06
15331	-0.28	7.53E-07	15239	0.43	3.36E-17
15333	0.26	1.54E-08	15230	0.17	9.61E-03
15339	-0.29	1.54E-04	15236	-0.23	2.88E-03
10174	0.11	7.47E-03	14253	0.23	6.43E-04
10175	0.11	7.25E-03	14259	-0.21	9.77E-03
10176	0.17	2.04E-04	14265	-0.20	1.89E-05
10177	0.36	7.35E-16	14269	0.21	3.32E-04
10182	0.16	2.48E-03	14273	-0.33	1.19E-10
10193	-0.21	1.99E-04	14284	-0.30	3.58E-04
10194	-0.23	2.10E-06	14290	-0.21	7.57E-03
10196	-0.45	9.06E-05	14296	-0.36	1.79E-15
10198	0.33	2.47E-13	14298	0.21	2.74E-04

10199	0.45	1.71E-27	14301	0.31	1.08E-16
10200	0.43	2.91E-21	14306	0.26	3.14E-08
10204	0.17	2.68E-04	14307	0.39	2.17E-19
10206	0.23	2.33E-06	14309	0.23	6.09E-08
10210	0.22	1.25E-04	14310	-0.18	2.10E-04
10212	-0.23	1.01E-03	14311	-0.20	3.82E-06
10225	0.26	3.11E-03	14313	0.17	1.42E-04
10231	0.16	2.06E-03	14315	-0.09	4.48E-03
10245	0.14	1.83E-03	14316	-0.14	2.62E-03
10246	-0.13	7.62E-03	14330	-0.28	6.79E-11
10248	0.17	1.35E-03	14333	0.18	4.19E-05
10258	-0.24	5.21E-04	14334	-0.17	4.46E-04
10266	0.18	1.10E-04	14342	0.16	8.69E-03
10269	-0.25	2.17E-03	14355	-0.15	9.80E-03
10271	-0.11	6.41E-04	14369	0.19	4.54E-03
10274	-0.38	8.22E-09	14377	0.21	2.41E-07
10276	-0.48	9.94E-05	14379	-0.56	3.55E-08
10280	0.20	3.78E-05	14380	0.19	3.43E-05
10283	-0.25	2.97E-06	14381	-0.40	2.06E-10
10286	-0.34	9.54E-11	14389	-0.26	1.10E-08
10288	0.34	1.24E-08	14390	0.37	1.64E-11
10290	0.18	1.31E-04	14391	-0.26	2.41E-08
10291	-0.41	8.78E-18	14392	0.19	3.83E-04
10292	-0.20	7.26E-03	14405	0.19	3.43E-03
11520	-0.29	3.16E-03	14406	-0.32	5.16E-06
11536	-0.20	3.85E-05	14411	-0.18	7.30E-05
11547	0.22	5.49E-07	14414	0.17	3.18E-08
11549	-0.36	1.23E-07	14424	-0.33	1.39E-05
11551	-0.19	3.78E-05	14426	-0.22	1.05E-05
11553	0.21	2.18E-07	14430	0.14	1.06E-03
11555	-0.31	6.97E-10	14441	0.16	2.20E-04
11556	0.37	3.33E-12	14447	0.29	2.34E-03
11569	0.18	9.13E-05	15206	0.15	3.20E-04
11574	-0.36	4.05E-05	15209	-0.20	1.20E-05
11582	0.17	1.30E-05	15211	-0.35	3.15E-11
11589	0.19	2.97E-04	14187	-0.40	6.32E-04
11594	0.28	1.62E-10	14189	0.30	2.75E-06
11595	-0.15	4.29E-03	14191	-0.27	1.60E-06
11600	-0.18	6.70E-05	14194	-0.50	1.10E-07

11601	-0.17	1.00E-04	14195	-0.39	1.72E-10
11602	0.27	4.02E-07	14197	-0.45	3.23E-08
11603	0.20	6.08E-05	14206	0.36	1.12E-08
11605	-0.40	7.21E-18	14213	0.26	5.42E-08
11613	0.16	1.62E-04	14214	-0.27	2.07E-03
11618	0.37	1.12E-13	14222	-0.45	2.04E-07
11619	0.16	2.36E-04	14226	0.18	3.04E-03
11628	-0.20	1.50E-05	14227	-0.13	4.60E-03
11631	0.17	5.85E-05	14237	-0.48	1.02E-13
11636	0.23	2.66E-07	14242	-0.14	1.24E-03
11639	-0.25	4.85E-06	14244	-0.33	2.01E-15
11641	0.27	3.83E-07	14246	-0.25	2.12E-08
11647	-0.69	2.52E-09	10117	-0.18	1.30E-04
11649	-0.31	1.02E-12	10119	-0.24	3.78E-07
11652	-0.44	8.17E-08	10123	0.09	5.05E-03
11656	-0.30	7.37E-05	10124	-0.24	1.91E-07
11659	-0.26	2.78E-09	10129	0.21	7.37E-07
11680	-0.20	3.70E-06	10132	0.32	2.03E-10
11684	0.32	2.87E-08	10138	-0.42	3.94E-04
11692	-0.61	3.94E-08	10139	-0.39	4.35E-19
11701	-0.27	2.09E-07	10140	0.34	1.22E-08
11704	0.30	2.14E-06	10148	-0.25	1.01E-08
11714	-0.18	1.04E-03	10157	-0.39	4.41E-18
11717	-0.20	4.54E-06	10158	0.15	9.03E-03
11719	-0.33	6.76E-09	10160	0.38	2.84E-19
11722	-0.26	3.04E-09	10161	-0.31	4.64E-06
11726	0.27	2.48E-10	10162	-0.52	5.51E-26
11728	-0.36	5.27E-07	10165	0.14	6.93E-03
11742	0.29	1.19E-04	6806	-0.30	1.06E-05
11745	-0.14	1.71E-03	6808	-0.20	7.44E-04
11748	-0.19	2.04E-03	6813	-0.20	4.83E-03
11754	-0.29	1.25E-07	6817	-0.40	3.66E-04
11756	0.36	2.77E-16	6818	-0.50	1.44E-30
11757	-0.29	1.94E-07	6819	-0.30	1.47E-03
11758	-0.27	1.20E-04	6820	-0.40	2.13E-04
11769	-0.14	3.48E-03	6834	-0.10	1.12E-03
11770	0.29	6.75E-03	6835	0.10	3.53E-03
11771	0.18	2.81E-05	6836	-0.20	3.84E-04
11788	-0.32	1.99E-05	6839	0.40	2.68E-19
11803	-0.25	9.61E-06	6842	-0.30	3.25E-03

11809	-0.23	1.98E-05	6843	-0.30	2.37E-07
11818	-0.38	5.75E-07	6844	-0.30	1.16E-03
11825	0.24	1.84E-07	6849	-0.80	2.13E-09
11833	-0.26	1.57E-04	6856	-0.30	1.75E-09
11844	0.13	3.25E-03	3460	-0.30	6.76E-03
11847	0.26	2.80E-08	3463	-0.20	4.35E-04
11856	0.17	8.60E-05	3465	0.20	3.15E-04
11862	0.18	6.15E-03	3466	0.20	1.06E-07
11863	-0.14	9.18E-04	3467	0.20	1.17E-08
13827	0.18	1.01E-04	3468	0.20	2.27E-05
13839	-0.28	6.76E-08	3470	0.20	7.80E-03
13843	-0.19	4.79E-03	3479	-0.20	3.17E-03
13852	0.25	2.92E-09	3480	-0.20	3.88E-03
13857	0.16	2.61E-04	3482	-0.20	7.72E-06
13861	0.18	1.05E-03	3483	0.20	5.56E-03
13869	-0.23	2.82E-04	3485	-0.40	4.10E-18
13878	-0.31	2.80E-10	3489	0.20	5.04E-06
13879	-0.13	5.43E-03	3490	0.20	4.83E-07
13885	0.21	5.53E-05	3491	0.40	3.95E-17
13891	-0.31	3.48E-06	3497	-0.20	1.13E-03
13898	0.40	1.71E-14	3500	-0.30	4.34E-04
13899	-0.24	2.93E-05	3503	-0.30	1.50E-05
13906	-0.35	2.70E-09	3506	-0.30	6.43E-04
13916	-0.29	1.19E-04	3510	-0.20	3.62E-06
13917	-0.24	1.14E-06	3511	0.30	1.87E-06
13919	-0.21	5.07E-03	3514	-0.30	1.17E-08
13923	-0.20	2.39E-03	3518	-0.30	5.78E-03
13926	-0.35	2.32E-04	3523	0.20	3.08E-07
13927	0.45	2.83E-15	3527	0.20	8.26E-05
13929	-0.30	8.24E-10	3529	0.20	2.20E-04
13934	-0.33	1.49E-12	3530	-0.20	4.70E-04
13935	0.20	2.16E-05	3539	0.30	1.55E-10
13939	-0.18	1.49E-04	3548	-0.70	2.93E-06
13949	-0.41	1.12E-09	6780	-0.40	7.10E-14
13955	0.13	5.84E-03	6783	-0.20	3.41E-06
13960	-0.21	4.92E-03	6790	-0.20	3.11E-05
13967	-0.44	1.47E-03	6798	0.30	2.95E-06
13971	0.25	1.92E-06	6799	0.20	1.20E-06
13980	-0.23	4.98E-03	6805	0.20	3.87E-04

13984	-0.40	4.00E-19
13989	-0.18	1.11E-04
13994	0.20	1.74E-05
13997	0.26	2.06E-05
13998	0.52	1.11E-22
14009	-0.16	6.43E-04
14010	-0.17	1.33E-04
14014	-0.13	2.69E-03
14016	0.16	1.04E-03
14019	0.14	6.68E-04
14031	-0.19	4.35E-05
14038	-0.21	4.59E-06
14045	0.26	4.84E-03
14049	0.18	2.13E-05
14050	0.25	7.03E-08
14052	-0.25	2.27E-07
14057	-0.20	4.58E-06
14071	-0.14	1.57E-03
14079	0.49	6.95E-30
14081	-0.41	1.40E-09
14083	-0.28	2.95E-04
14086	-0.12	6.15E-03
14088	0.16	5.62E-04
14089	0.16	3.92E-04
14090	-0.31	1.63E-04
14106	0.23	1.33E-09
14111	-0.13	3.90E-03
14113	0.36	1.22E-13
14124	-0.21	3.87E-04
14131	-0.21	2.31E-06
14136	-0.18	5.23E-04
14144	0.16	2.55E-04

10103	-0.22	2.84E-07
10104	-0.18	1.61E-04
10107	-0.20	9.17E-05
10110	0.13	5.68E-03
10114	0.25	2.85E-05
10115	-0.21	3.00E-05
14152	0.19	4.82E-03
14153	-0.34	2.31E-07
14164	-0.22	1.37E-05
14170	0.29	3.89E-11
14178	-0.10	7.24E-03
14182	0.26	5.86E-08

TABLE 15 - GENETIC MARKERS FOR OVERALL TYPE

A	B	C	A	B	C	A	B	C	A	B	C
2	0.30	6.37E-05	2404	-0.20	6.43E-04	4761	-0.50	4.02E-13	7048	-0.40	1.51E-05
3	0.20	4.24E-04	2405	0.10	8.81E-03	4762	0.20	1.66E-06	7051	-0.20	4.13E-03
6	-0.30	9.70E-04	2406	0.30	1.59E-09	4763	-0.10	8.95E-03	7053	-0.20	3.94E-10
13	0.20	6.70E-04	2408	0.20	2.93E-05	4764	0.20	3.12E-03	7056	-0.30	2.06E-07
15	0.20	1.04E-04	2413	0.30	1.20E-11	4770	-0.20	2.06E-04	7063	0.10	6.78E-04
16	0.20	1.08E-05	2414	0.30	7.59E-12	4771	-0.60	3.23E-08	7064	0.10	2.93E-03
22	-0.30	3.50E-08	2418	-0.20	1.46E-05	4774	0.20	3.20E-04	7072	-0.30	1.14E-07
26	0.20	8.23E-05	2421	-0.20	1.15E-04	4778	-0.20	9.51E-03	7073	-0.30	1.14E-07
27	-0.10	4.58E-03	2422	-0.30	1.95E-06	4780	0.20	1.98E-07	7077	0.30	2.63E-04
35	-0.30	2.01E-11	2423	0.10	4.85E-03	4781	0.30	4.82E-06	7079	0.20	2.73E-08
36	-0.60	8.79E-11	2424	-0.40	6.39E-06	4786	-0.30	2.92E-05	7082	0.30	7.43E-08
38	-0.30	4.60E-03	2427	-0.30	2.06E-06	4788	0.20	3.01E-03	7084	-0.40	1.09E-05
39	-1.10	2.90E-12	2432	0.30	5.97E-07	4789	-0.30	7.42E-08	7086	-0.40	3.18E-14
46	-0.40	1.14E-13	2433	0.20	6.35E-04	4790	-0.10	3.38E-03	7092	0.20	2.70E-04
52	-0.40	1.76E-15	2437	-0.30	5.34E-08	4796	-0.20	1.03E-03	7093	0.20	7.27E-03
54	0.20	4.72E-05	2438	-0.50	5.42E-03	4800	-0.50	9.26E-07	7098	0.10	8.63E-03
55	0.30	2.76E-04	2443	-0.20	4.40E-03	4801	-0.20	3.04E-04	7101	-0.10	8.98E-04
57	0.20	8.11E-04	2446	0.40	4.98E-13	4803	0.20	7.70E-05	7106	0.20	1.60E-03
59	-0.60	1.53E-03	2452	0.40	2.88E-06	4807	0.40	1.86E-16	7108	-0.40	5.83E-06
61	-0.30	1.93E-06	2453	-0.30	7.31E-10	4808	-0.30	1.29E-09	7109	-0.20	6.89E-03
63	-0.40	4.75E-13	2459	-0.30	4.28E-03	4813	-0.30	8.80E-05	7116	0.40	2.30E-16
66	-0.20	4.72E-06	2465	-0.60	3.79E-38	4821	-0.30	6.77E-05	7122	-0.40	6.84E-05
67	0.30	1.21E-09	2466	-0.50	4.04E-25	4827	0.50	3.69E-14	7123	0.10	3.45E-03
71	-0.50	3.85E-12	2470	-0.60	7.86E-13	4832	0.10	6.06E-03	7128	0.40	4.17E-17
73	0.20	3.07E-04	2471	0.40	1.73E-21	4834	-0.90	1.58E-08	7129	-0.30	5.35E-08
75	-0.20	3.35E-05	2472	-0.40	1.04E-11	4835	0.20	6.55E-03	7130	0.30	4.09E-05
77	-0.10	2.51E-03	2476	0.20	6.05E-05	4843	0.10	6.52E-03	7135	0.30	2.67E-04
86	0.30	9.98E-06	2479	0.10	3.27E-04	4846	-0.20	2.33E-04	7136	0.30	7.64E-04
99	0.50	2.39E-24	2480	0.10	1.20E-03	4847	0.20	4.35E-04	7139	-0.30	4.08E-06
101	-0.50	1.60E-21	2483	0.20	2.85E-04	4849	-0.30	4.53E-08	7140	-0.50	4.42E-05
106	0.20	6.35E-07	2484	0.30	1.97E-09	4854	-0.20	3.17E-03	7149	0.40	1.22E-13
114	-0.20	3.92E-03	2485	0.30	7.65E-10	4857	-0.20	1.50E-04	7151	0.10	9.38E-03
122	-0.30	4.83E-03	2486	0.30	3.83E-09	4858	-0.20	3.39E-05	7161	-0.20	8.01E-05
126	0.30	2.92E-04	2489	0.20	1.96E-04	4859	-0.20	1.46E-03	7162	0.20	2.85E-04
131	0.50	2.03E-28	2490	-0.30	5.06E-03	4863	-0.20	2.00E-06	7165	-0.20	1.42E-03
133	0.20	2.39E-03	2491	0.50	8.52E-25	4864	-0.30	4.34E-09	7166	-0.30	5.77E-08
137	-0.10	8.47E-03	2499	0.30	7.22E-06	4870	-0.20	2.82E-03	7175	-0.20	9.99E-05

143	0.20	5.42E-03	2501	-0.20	4.48E-12	4871	-0.20	7.08E-05	7181	-0.60	2.20E-04
150	-0.20	7.02E-06	2508	-0.20	1.48E-04	4873	0.20	6.18E-05	7187	0.30	5.29E-04
152	0.40	2.69E-12	2514	-0.30	1.38E-06	4877	0.20	6.73E-04	7188	-0.10	2.94E-03
154	-0.40	3.14E-07	2516	-0.20	6.66E-04	4878	-0.30	6.17E-04	7189	0.30	2.33E-09
156	0.20	4.91E-04	2518	0.20	3.37E-05	4879	-0.20	2.35E-04	7190	0.20	6.00E-04
159	-0.20	1.02E-03	2522	-0.20	1.43E-06	4885	0.20	4.91E-06	7193	0.20	6.53E-03
162	-0.30	4.32E-03	2523	-0.20	4.78E-07	4890	-0.30	1.01E-03	7195	-0.50	3.20E-15
168	0.20	3.61E-06	2531	-0.30	1.61E-03	4893	0.20	7.41E-06	7197	-0.30	2.44E-09
171	0.20	1.23E-06	2532	-0.30	3.60E-08	4894	-0.20	2.29E-06	7198	-0.30	1.58E-04
173	-0.30	6.84E-03	2534	0.30	2.23E-03	4898	0.20	2.30E-10	7199	-0.40	3.79E-12
174	0.30	5.77E-05	2535	0.40	2.34E-07	4905	-0.40	1.57E-08	7201	-0.30	2.54E-04
176	-0.40	5.64E-14	2543	0.30	5.52E-05	4909	-0.20	4.03E-04	7202	-0.30	4.34E-03
177	0.30	9.91E-10	2545	-0.20	8.48E-04	4911	0.40	3.18E-11	7204	0.20	2.28E-06
181	0.30	8.67E-15	2547	-0.20	5.40E-05	4916	-0.20	1.72E-03	7208	-0.30	4.63E-05
182	-0.20	1.87E-03	2550	-0.30	8.04E-05	4917	0.10	5.00E-03	7218	-0.30	8.90E-13
186	0.20	1.03E-05	2553	0.20	5.59E-04	4920	0.20	1.92E-05	7219	-0.30	4.56E-08
191	-0.40	2.21E-15	2564	0.10	7.18E-03	4934	0.20	2.69E-04	7223	-0.30	1.51E-06
194	0.20	3.03E-06	2568	0.10	6.59E-03	4937	0.30	1.64E-07	7225	-0.30	3.12E-03
203	-0.20	5.16E-06	2570	0.30	2.03E-04	4938	0.30	5.89E-11	7227	0.30	4.69E-08
209	0.30	4.70E-08	2571	-0.30	4.20E-09	4942	-0.20	3.13E-03	7228	0.30	2.48E-08
215	-0.30	1.92E-05	2575	0.20	5.91E-03	4946	-0.20	1.04E-04	7229	0.20	7.21E-05
217	0.40	7.01E-12	2577	-0.40	1.09E-04	4951	0.20	9.88E-07	7231	0.30	5.84E-09
219	0.30	1.25E-07	2578	-0.30	9.22E-06	4953	0.20	6.96E-05	7232	-0.50	1.60E-20
220	-0.20	7.96E-04	2580	0.20	9.49E-03	4958	0.10	4.79E-03	7233	0.20	6.35E-06
289											
221	-0.20	3.24E-03	2582	-0.20	6.49E-05	4962	-0.30	6.88E-03	7238	-0.20	3.76E-05
222	-0.20	1.23E-05	2583	0.30	9.85E-08	4970	-0.30	1.21E-06	7239	-0.40	6.69E-04
228	-0.30	8.17E-03	2584	0.10	5.16E-03	4973	0.20	1.62E-06	7245	0.20	1.65E-06
231	-0.50	1.04E-14	2590	0.20	8.76E-03	4974	0.20	4.47E-04	7247	-0.20	1.61E-03
238	-0.20	1.50E-03	2591	-0.20	8.68E-04	4976	-0.30	2.10E-04	7248	-0.10	4.00E-03
246	-0.40	3.89E-07	2595	0.40	1.86E-18	4982	-0.20	2.27E-03	7251	0.30	1.25E-07
249	-0.30	1.71E-09	2597	0.30	5.40E-04	4986	-0.20	4.42E-04	7255	0.40	1.73E-06
250	-0.20	1.46E-05	2604	-0.20	2.62E-03	4987	-0.70	4.42E-04	7263	0.20	4.80E-04
251	0.20	9.92E-06	2608	0.20	2.46E-06	4991	-0.30	6.61E-08	7269	0.30	1.71E-07
257	0.40	6.41E-09	2611	-0.40	1.37E-07	4996	-0.60	6.11E-11	7270	-0.30	1.29E-06
259	0.40	1.44E-04	2612	-0.30	5.52E-08	4999	0.20	1.46E-03	7271	-0.30	2.23E-08
265	-0.30	5.18E-07	2613	-0.30	5.11E-08	5003	-0.70	1.72E-08	7275	-0.50	7.90E-03
270	0.20	5.16E-05	2617	-0.20	2.06E-03	5004	-0.30	4.55E-03	7279	-0.40	1.34E-15
272	-0.30	1.39E-10	2619	0.20	8.60E-04	5005	-0.30	4.49E-03	7280	-0.20	3.82E-03
276	-0.50	1.03E-04	2620	0.30	7.16E-10	5010	-0.40	2.84E-08	7285	0.40	2.78E-06

282	0.30	2.16E-10	2624	0.10	1.80E-03	5013	0.20	4.22E-05	7289	0.20	2.95E-07
298	0.20	1.08E-03	2630	0.20	3.78E-04	5016	-0.30	7.83E-10	7293	-0.10	6.58E-03
300	0.20	8.12E-04	2633	-0.60	2.25E-09	5025	0.40	1.99E-16	7300	0.20	1.54E-04
303	0.20	1.05E-03	2638	-0.40	3.04E-03	5028	-0.20	3.13E-06	7304	-0.20	4.44E-03
305	0.20	6.14E-07	2640	0.60	6.00E-11	5034	0.10	8.45E-03	7305	-0.20	1.95E-03
307	0.30	3.62E-11	2646	0.10	8.35E-03	5035	-0.20	5.91E-03	7306	0.10	3.14E-03
309	0.20	1.95E-04	2647	0.30	4.19E-07	5036	0.20	7.72E-07	7310	-0.20	1.34E-04
312	-0.30	3.43E-07	2649	-0.30	9.89E-08	5037	-0.20	1.80E-04	7311	-0.30	1.55E-07
315	0.20	7.05E-05	2650	0.20	2.97E-04	5046	-0.20	1.98E-05	7313	0.30	1.52E-11
318	-0.30	2.50E-08	2657	0.20	1.75E-03	5047	0.30	3.37E-03	7315	-0.30	2.00E-06
320	-0.40	2.34E-04	2664	0.10	1.90E-03	5057	-0.40	3.06E-08	7316	-0.20	3.87E-04
321	0.30	4.04E-05	2665	0.10	1.55E-03	5060	0.30	3.75E-07	7317	-0.20	9.12E-04
323	-0.30	1.18E-04	2667	0.30	3.72E-04	5061	-0.60	2.20E-09	7319	-0.30	6.25E-03
327	-0.10	4.39E-03	2668	-0.40	1.38E-15	5063	-0.60	1.47E-09	7322	-0.20	8.32E-05
328	-0.30	1.76E-05	2670	-0.30	5.81E-05	5066	-0.20	1.44E-04	7323	-0.30	1.79E-03
330	-0.60	5.39E-11	2684	0.20	6.16E-03	5069	0.40	2.54E-15	7329	-0.70	2.61E-08
331	-0.30	1.18E-08	2687	0.20	5.24E-04	5070	0.40	2.49E-09	7331	0.40	2.35E-08
333	0.50	4.40E-27	2688	-0.40	3.56E-14	5071	0.20	6.97E-05	7335	-0.30	4.07E-04
335	-0.40	2.27E-09	2691	0.20	9.19E-03	5074	-0.40	8.14E-04	7340	-0.20	7.57E-04
336	-0.30	6.62E-09	2693	0.30	6.18E-09	5078	-0.20	1.33E-07	7345	0.30	1.91E-08
337	0.30	2.43E-11	2696	0.40	1.33E-20	5079	0.40	4.15E-15	7357	0.40	2.07E-13
343	-0.90	4.29E-10	2705	-0.30	1.69E-10	5082	0.20	6.65E-03	7359	-0.50	2.60E-03
345	-0.30	3.10E-07	2707	-0.40	1.80E-11	5083	0.30	2.17E-08	7360	-0.30	1.10E-04
348	-0.20	1.56E-05	2712	-0.20	2.79E-06	5086	0.40	1.17E-19	7361	0.20	5.71E-04
349	-0.20	2.96E-03	2714	-0.40	3.58E-04	5088	0.20	2.25E-08	7362	-0.20	1.06E-04
354	-0.40	1.66E-08	2721	0.20	1.74E-03	5093	-0.30	6.95E-13	7367	-0.30	1.42E-08
359	0.20	3.61E-05	2722	-0.20	5.57E-06	5094	0.40	3.74E-08	7374	0.40	2.10E-22
363	-0.30	7.33E-03	2727	0.30	7.81E-10	5095	-0.20	3.34E-03	7376	0.20	7.62E-06
364	-0.20	4.38E-03	2730	-0.60	2.44E-06	5097	0.20	5.88E-03	7386	-0.20	6.46E-05
367	-0.30	1.59E-08	2731	-0.50	5.58E-06	5098	0.20	1.34E-04	7388	-0.30	1.75E-08
368	0.10	2.58E-03	2735	0.30	1.22E-12	5102	-0.50	7.60E-05	7390	0.40	6.84E-08
372	-0.20	5.17E-03	2738	-0.20	1.06E-04	5109	0.20	5.02E-04	7396	0.20	1.39E-04
373	0.50	3.77E-06	2739	-0.20	1.66E-04	5111	-0.40	9.12E-04	7399	0.20	4.98E-03
376	-0.50	1.20E-07	2742	-0.50	4.48E-06	5114	0.20	1.43E-04	7400	0.20	4.83E-03
377	-0.40	3.72E-04	2743	0.40	1.40E-11	5115	-0.30	2.22E-06	7401	0.10	6.86E-03
381	0.20	5.59E-07	2746	0.10	5.69E-05	5116	-0.20	3.60E-05	7403	-0.40	1.55E-08
382	0.30	3.36E-06	2752	-0.60	4.79E-11	5117	0.30	6.77E-05	7404	-0.40	1.11E-08
386	-0.50	6.13E-05	2754	0.50	8.51E-27	5124	-0.30	9.66E-09	7406	0.20	3.14E-04
390	-0.20	1.18E-03	2756	-0.50	4.75E-23	5125	0.30	2.57E-09	7410	0.20	1.01E-03
393	0.50	1.82E-20	2758	0.10	7.07E-03	5132	0.20	4.55E-05	7414	0.10	8.67E-05

394	-0.50	3.11E-21	2760	-0.30	2.52E-08	5133	-0.50	6.20E-07	7416	-0.10	4.13E-03
395	-0.20	5.60E-06	2761	-0.30	3.51E-08	5134	-0.50	3.00E-25	7421	-0.20	1.04E-03
396	-0.40	4.20E-09	2772	-0.30	5.30E-07	5138	-0.20	9.69E-04	7424	0.30	6.04E-09
397	0.20	3.56E-07	2773	-0.30	8.24E-06	5141	0.20	6.21E-04	7426	0.30	1.17E-11
404	0.30	1.57E-08	2774	0.30	1.65E-04	5145	-0.30	1.30E-06	7427	-0.30	6.95E-04
407	-0.20	4.14E-04	2778	0.10	5.78E-03	5148	-0.20	2.27E-05	7429	0.40	1.40E-12
408	-0.50	9.20E-11	2781	0.50	1.10E-19	5149	-0.20	1.42E-04	7430	-0.30	1.43E-07
410	-0.40	3.50E-16	2782	0.30	4.92E-15	5152	0.10	1.26E-03	7431	0.30	6.98E-08
290											
411	-0.40	9.93E-17	2786	0.20	9.78E-04	5155	-0.50	3.51E-03	7434	0.30	6.72E-12
412	-0.50	1.22E-08	2788	0.10	4.71E-03	5164	-0.10	3.01E-03	7437	0.10	3.21E-03
415	-0.30	3.61E-07	2789	0.30	1.31E-04	5165	0.30	1.41E-05	7441	-0.20	3.82E-05
423	-0.20	1.65E-03	2790	0.30	1.61E-07	5166	-0.20	1.56E-04	7443	-0.40	1.37E-03
425	-0.20	1.91E-05	2791	0.20	7.85E-05	5172	-0.30	1.01E-07	7448	-0.50	3.07E-22
429	0.20	4.64E-07	2796	0.20	1.90E-04	5175	-0.20	5.40E-03	7449	-0.20	1.67E-05
433	-0.20	5.28E-04	2799	0.20	1.50E-03	5176	-0.50	6.76E-06	7450	-0.30	1.09E-05
435	-0.30	6.68E-04	2816	-0.40	6.23E-05	5179	-0.50	1.19E-05	7453	-0.20	4.67E-04
440	0.10	9.66E-03	2821	-0.10	2.26E-03	5186	0.20	6.22E-04	7454	-0.20	1.62E-03
444	-0.20	5.91E-05	2822	-0.20	4.27E-03	5204	-0.30	7.36E-08	7460	0.50	6.43E-19
447	-0.30	1.25E-04	2824	0.20	3.37E-04	5207	0.40	1.08E-07	7464	-0.30	1.12E-05
450	0.20	2.01E-05	2828	0.20	8.46E-04	5209	0.20	8.38E-04	7468	0.20	7.58E-06
467	-0.30	1.82E-09	2829	-0.50	3.88E-09	5211	0.10	3.66E-03	7471	-0.20	1.18E-05
474	0.10	9.70E-03	2830	-0.50	1.25E-08	5219	0.40	1.17E-10	7476	-0.40	1.17E-04
476	0.40	1.43E-16	2832	0.20	7.70E-04	5223	0.20	2.50E-04	7477	-0.10	1.73E-03
478	0.30	5.42E-09	2836	0.20	1.42E-05	5229	-0.30	4.25E-04	7478	-0.60	1.84E-07
479	-1.00	7.78E-09	2838	-0.40	4.94E-13	5230	0.30	9.83E-12	7486	-0.20	8.57E-04
481	0.20	4.03E-06	2841	-0.20	2.24E-03	5235	-0.40	5.54E-11	7493	0.40	4.82E-13
484	0.20	2.59E-03	2843	0.30	2.23E-12	5237	0.20	6.57E-04	7494	0.20	2.64E-03
488	-0.20	4.50E-04	2844	-0.50	1.59E-06	5239	-0.30	1.01E-06	7495	-0.20	8.81E-03
490	-0.20	6.75E-03	2845	-0.50	7.01E-06	5241	-0.20	7.01E-04	7496	-0.20	8.49E-05
497	-0.50	6.74E-14	2848	-0.50	1.44E-25	5242	0.10	2.79E-03	7497	0.10	7.61E-03
499	0.50	1.70E-14	2850	-0.30	8.89E-04	5247	0.20	3.07E-07	7502	-0.20	2.11E-03
505	0.20	1.07E-06	2859	0.10	7.55E-03	5251	-0.10	2.78E-03	7503	-0.30	1.56E-05
507	-0.10	3.39E-03	2860	0.50	8.02E-09	5252	-0.10	2.03E-03	7504	-0.50	2.46E-08
508	0.40	6.58E-19	2867	-0.30	2.09E-03	5253	0.10	6.33E-03	7506	-0.20	9.47E-07
509	0.10	6.65E-03	2873	0.30	2.43E-05	5255	0.20	1.31E-05	7507	-0.40	1.40E-09
511	-0.20	1.26E-03	2874	-0.30	2.16E-08	5261	-0.20	1.04E-04	7508	-0.30	3.85E-04
522	-0.40	7.26E-04	2877	0.30	1.69E-03	5262	0.30	9.15E-06	7509	0.30	4.06E-09
525	-0.20	4.75E-03	2878	-0.20	1.54E-04	5267	-0.40	7.00E-04	7515	-0.50	1.40E-12
529	-0.30	6.03E-05	2880	-0.40	3.58E-03	5273	-0.30	2.08E-08	7516	-0.50	1.40E-12

530	-0.40	6.46E-03	2882	0.30	1.59E-07	5274	-0.30	1.20E-08	7523	-0.20	3.12E-03
531	0.30	5.53E-08	2887	-0.70	1.04E-03	5275	-0.50	1.64E-19	7524	-0.10	5.00E-03
532	0.20	5.54E-05	2888	-0.30	3.23E-08	5276	-0.40	3.19E-03	7525	-0.20	2.06E-03
534	-0.30	1.68E-08	2889	0.20	1.42E-03	5278	0.20	1.21E-03	7527	0.20	9.70E-04
536	-0.20	4.69E-03	2890	0.40	1.03E-23	5280	0.20	3.47E-03	7530	0.20	4.29E-03
537	0.30	5.47E-14	2891	0.10	2.55E-03	5283	0.10	2.47E-03	7532	-0.20	1.44E-04
539	-0.20	2.28E-03	2896	-0.50	7.17E-10	5285	-0.50	5.37E-19	7533	0.20	4.02E-04
540	-0.40	8.85E-15	2897	-0.20	4.44E-03	5291	0.30	4.10E-05	7537	0.16	3.72E-06
546	-0.20	2.16E-03	2898	-0.30	1.70E-03	5293	-0.30	9.46E-04	7539	0.11	4.95E-03
550	0.30	1.79E-06	2899	0.30	2.24E-03	5294	0.20	2.60E-03	7540	0.25	3.62E-07
552	0.20	6.34E-05	2900	0.30	3.96E-06	5295	-0.30	1.25E-04	7543	-0.20	1.65E-04
553	-0.20	1.10E-04	2901	-0.40	4.81E-14	5302	-0.30	1.65E-13	7545	0.39	2.12E-13
561	-0.50	1.59E-12	2907	-0.40	1.89E-11	5306	-0.30	1.90E-03	7547	-0.19	1.14E-04
565	0.40	1.00E-13	2914	0.40	1.02E-11	5308	-0.30	2.26E-07	7548	-0.28	1.92E-08
570	-0.20	6.61E-06	2921	-0.20	6.81E-05	5315	-0.10	6.74E-03	7549	-0.51	2.25E-19
578	0.10	4.76E-03	2924	0.30	1.22E-12	5316	0.20	6.97E-04	7559	0.31	5.54E-10
580	-0.30	3.83E-08	2927	0.20	8.36E-05	5317	0.50	1.16E-21	7560	0.34	9.60E-13
582	0.30	8.83E-09	2932	0.30	1.45E-03	5319	-0.30	7.19E-04	7561	0.22	1.10E-05
586	-0.20	3.12E-03	2941	-0.40	6.15E-08	5321	0.20	7.38E-04	7563	-0.29	8.05E-04
588	-0.40	3.14E-04	2946	0.20	4.97E-07	5322	0.40	7.56E-05	7564	-0.23	4.14E-06
592	0.30	6.26E-09	2954	-0.10	3.76E-04	5326	-0.20	2.35E-05	7565	-0.25	1.29E-03
594	-0.10	2.89E-03	2955	-0.70	1.90E-10	5329	-0.50	6.06E-07	7568	0.29	1.11E-07
595	-0.20	7.41E-05	2959	-0.50	6.93E-24	5330	0.20	1.42E-03	7569	0.31	5.01E-10
598	-0.10	2.80E-03	2962	0.20	2.47E-05	5331	-0.30	1.78E-05	7570	-0.34	9.60E-14
614	-0.30	3.76E-08	2965	0.20	8.41E-07	5333	-0.30	2.44E-06	7571	0.23	3.60E-09
615	0.10	4.89E-03	2968	-0.20	3.76E-04	5334	-0.30	2.84E-06	7572	0.12	7.24E-03
620	0.20	3.65E-06	2971	-0.30	3.76E-09	5338	0.10	8.88E-04	7573	0.42	1.25E-14
623	0.20	6.50E-07	2974	-0.40	8.36E-09	5340	-0.50	4.96E-04	7575	-0.47	5.45E-07
628	0.20	3.72E-03	2995	0.40	4.73E-16	5343	0.30	1.52E-08	7578	-0.34	1.97E-07
629	0.50	1.11E-23	2996	0.20	5.68E-04	5344	0.50	3.58E-24	7580	0.20	5.41E-05
636	0.20	8.76E-05	2997	0.30	2.16E-08	5345	0.60	3.66E-35	7581	-0.17	2.44E-06
637	-0.20	1.13E-05	2998	-0.30	3.59E-06	5348	0.30	5.92E-08	7582	-0.30	3.72E-09
291											
640	-0.10	2.32E-03	3003	0.30	5.01E-06	5350	0.20	3.20E-04	7583	-0.31	5.75E-04
644	0.40	2.68E-23	3008	0.30	2.26E-07	5353	0.40	6.22E-17	7584	0.19	1.12E-04
645	-0.20	1.23E-04	3026	-0.20	3.67E-05	5356	-0.20	1.82E-03	7594	-0.21	1.90E-04
647	0.20	2.75E-04	3027	-0.20	6.36E-04	5361	-0.20	9.40E-04	7597	-0.22	3.34E-06
649	0.20	1.43E-05	3029	-0.30	9.18E-03	5366	0.10	5.43E-03	7601	-0.39	1.73E-10
652	0.20	2.06E-05	3031	0.40	5.15E-07	5369	-0.20	1.44E-03	7603	-0.27	1.42E-05
653	0.40	2.33E-05	3033	-0.60	8.21E-07	5372	-0.30	1.74E-03	7605	-0.45	5.07E-13

655	0.20	6.56E-04	3034	0.30	9.08E-11	5377	0.20	9.36E-03	7606	0.27	1.56E-07
657	-0.30	3.61E-09	3037	-0.20	3.31E-05	5379	-0.30	9.31E-08	7612	0.25	1.88E-03
663	-0.50	2.83E-13	3040	-0.20	7.30E-04	5381	0.20	1.04E-06	7629	0.20	1.41E-03
664	-0.50	2.25E-21	3042	0.20	2.88E-04	5383	0.20	5.82E-03	7635	-0.35	7.63E-06
667	-0.20	9.62E-04	3044	-0.40	4.39E-08	5384	0.20	2.80E-04	7642	-0.19	2.78E-05
668	-0.40	3.80E-15	3048	0.40	2.09E-16	5390	0.10	1.39E-04	7643	0.18	1.51E-04
672	0.30	4.25E-11	3050	-0.60	2.95E-18	5391	-0.30	1.39E-06	7644	-0.27	2.13E-09
674	0.20	3.20E-03	3053	0.30	7.61E-10	5397	0.10	2.44E-03	7645	-0.26	1.35E-03
678	0.10	6.77E-03	3057	-0.10	3.81E-03	5399	-0.30	4.82E-07	7648	-0.50	7.85E-04
681	0.30	6.37E-11	3061	-0.30	8.70E-03	5402	-0.20	7.60E-08	7649	-0.42	1.03E-08
688	0.20	4.25E-06	3062	-0.20	4.36E-05	5405	-0.20	2.15E-03	7652	-0.26	1.90E-04
690	-0.40	2.30E-10	3066	0.20	2.90E-03	5412	-0.20	7.28E-04	7656	0.15	1.69E-03
693	0.20	2.48E-03	3069	0.20	1.69E-05	5414	-0.40	1.65E-14	7657	0.17	4.25E-04
696	-0.20	4.93E-04	3072	0.30	1.09E-05	5417	0.20	1.26E-04	7658	-0.87	5.01E-06
703	0.40	7.47E-13	3074	-0.20	2.95E-03	5418	0.20	1.89E-06	7659	-0.46	5.50E-10
705	-0.20	4.68E-05	3076	0.10	7.84E-03	5419	0.30	6.39E-07	7660	0.49	1.28E-14
707	0.20	4.22E-06	3077	0.20	2.10E-03	5426	-0.20	3.85E-03	7665	0.40	2.01E-17
718	-0.30	1.10E-07	3079	-0.30	2.31E-10	5427	-0.20	3.97E-03	7668	-0.30	4.69E-05
722	0.20	1.35E-04	3089	-0.30	1.28E-09	5429	0.40	4.85E-11	7676	-0.22	6.10E-04
723	-0.20	2.96E-05	3092	0.40	3.96E-04	5431	-0.50	7.01E-05	7684	-0.18	4.78E-03
724	-0.30	8.77E-08	3094	-0.10	2.08E-04	5432	0.40	2.31E-20	7688	-0.25	9.96E-07
726	-0.20	5.41E-04	3100	-0.30	4.13E-05	5435	0.20	5.79E-07	7689	0.39	1.26E-18
730	-0.20	4.44E-03	3102	0.30	1.24E-03	5438	0.20	3.19E-03	7690	-0.42	2.22E-16
736	0.40	1.24E-17	3104	-0.20	8.06E-04	5439	-0.40	3.17E-04	7691	-0.42	7.48E-17
737	0.40	8.28E-03	3108	-0.10	3.89E-03	5440	-0.30	3.73E-03	7693	-0.32	2.72E-06
741	0.30	4.35E-03	3114	0.20	4.80E-03	5446	0.30	1.56E-09	7694	-0.33	7.84E-03
742	0.30	3.43E-03	3115	-0.20	2.37E-03	5461	-0.30	7.53E-07	7699	0.19	3.35E-04
746	-0.50	2.40E-03	3117	0.50	1.98E-05	5463	-0.20	1.25E-05	7701	-0.15	2.95E-03
749	-0.20	1.57E-04	3118	-0.20	1.39E-04	5465	0.10	8.52E-03	7708	-0.13	7.57E-03
753	-0.30	8.50E-08	3122	0.20	1.88E-05	5466	-0.30	2.43E-09	7721	-0.54	2.99E-15
754	0.30	5.46E-05	3124	-0.40	5.02E-17	5470	-0.40	5.47E-14	7722	-0.81	4.29E-12
760	-0.70	2.10E-06	3125	-0.20	3.43E-04	5473	-0.30	2.71E-07	7723	-0.37	1.61E-05
761	0.40	4.05E-08	3129	0.30	2.55E-13	5475	0.30	2.75E-05	7724	0.15	2.47E-03
762	0.30	6.91E-06	3142	0.20	5.08E-07	5480	0.40	1.78E-11	7725	0.18	3.41E-05
765	-0.50	7.57E-05	3143	-0.30	1.87E-06	5485	-0.40	2.51E-03	7727	0.31	6.60E-11
766	0.30	3.96E-10	3144	-0.30	1.36E-09	5486	-0.40	2.55E-03	7729	0.22	4.82E-05
767	-0.30	5.76E-03	3145	-0.30	1.59E-09	5491	0.30	1.28E-07	7732	-0.19	3.07E-04
769	-0.30	3.05E-10	3146	0.20	3.98E-03	5492	-0.10	7.92E-03	7735	0.15	3.43E-03
772	-0.20	3.09E-03	3149	0.20	5.62E-04	5493	-0.20	1.44E-03	7736	-0.35	2.55E-03
773	0.20	2.34E-04	3152	0.10	9.57E-03	5494	-0.20	1.26E-03	7737	-0.32	2.36E-11

774	-0.20	2.16E-03	3153	-0.30	8.19E-09	5495	0.30	4.62E-05	7738	0.36	1.34E-16
776	0.40	1.30E-17	3158	-0.20	2.89E-04	5499	0.20	4.19E-04	7742	-0.17	1.05E-03
777	-0.20	3.95E-03	3165	-0.50	1.36E-13	5501	0.30	4.57E-09	7745	0.38	7.47E-16
778	0.20	3.39E-04	3166	-0.20	1.92E-06	5502	0.30	1.55E-08	7747	0.18	2.75E-04
779	-0.80	8.16E-24	3168	0.30	1.62E-07	5505	-0.50	1.19E-06	7748	-0.48	2.81E-03
781	0.20	3.33E-05	3171	-0.30	6.31E-03	5509	0.20	1.55E-05	7750	0.33	7.13E-08
782	-0.20	1.55E-04	3177	-0.30	4.69E-05	5511	-0.30	3.81E-07	7751	0.31	4.16E-08
784	-0.30	4.19E-05	3178	-0.20	4.00E-04	5512	-0.30	7.11E-04	7753	0.35	3.38E-09
788	-0.40	1.31E-03	3180	-0.20	1.47E-05	5513	-0.30	2.50E-07	7754	0.17	4.91E-04
790	0.30	5.37E-09	3183	-0.40	8.80E-12	5518	-0.30	5.67E-04	7755	0.22	4.60E-11
793	0.50	2.08E-18	3184	0.40	2.42E-15	5520	0.10	5.45E-03	7759	-0.21	1.06E-05
794	0.30	4.79E-06	3188	-0.20	6.90E-06	5522	-0.50	1.21E-20	7763	-0.21	2.99E-04
799	0.30	7.57E-04	3189	-0.40	3.48E-18	5527	0.30	2.45E-08	7770	0.25	2.13E-04
801	-0.70	1.39E-10	3190	0.50	4.48E-13	5536	-0.30	6.90E-09	7777	-0.37	4.28E-13
806	-0.20	2.61E-03	3191	-0.30	2.64E-08	5537	-0.10	6.91E-04	7779	-0.46	4.04E-03
808	-0.50	6.11E-15	3192	-0.30	4.42E-08	5539	-0.20	3.48E-05	7781	0.24	7.90E-07
292											
811	0.30	5.17E-04	3196	-0.20	1.48E-03	5540	-0.20	7.27E-03	7782	-0.27	1.25E-06
812	0.30	5.85E-08	3199	-0.20	8.91E-03	5546	-0.20	2.00E-04	7785	-0.32	8.46E-06
825	-0.20	9.86E-03	3200	0.10	5.65E-03	5548	0.20	6.47E-05	7788	0.17	7.37E-04
827	0.20	8.89E-04	3206	0.40	8.20E-05	5552	-0.10	4.31E-03	7808	-0.37	2.56E-03
829	0.40	1.93E-12	3210	0.10	1.10E-03	5554	-0.30	1.27E-04	7810	-0.25	2.63E-06
833	-0.50	1.77E-03	3217	-0.20	1.96E-04	5570	0.40	1.47E-25	7812	-0.22	7.65E-03
837	-0.20	1.21E-03	3218	-0.40	1.32E-10	5571	0.30	1.40E-04	7813	-0.21	9.27E-03
840	-0.60	5.84E-13	3220	0.20	1.01E-04	5574	-0.30	1.57E-09	7815	-0.38	3.08E-11
841	-0.20	5.05E-03	3222	0.20	1.45E-03	5576	0.20	2.61E-03	7816	-0.34	6.54E-09
842	-0.20	3.76E-03	3227	-0.30	2.85E-05	5577	0.20	1.86E-03	7822	-0.49	5.45E-22
844	0.10	5.04E-03	3235	-0.20	8.97E-04	5578	0.20	8.40E-04	7823	0.21	1.60E-06
846	-0.30	2.63E-05	3239	-0.20	1.32E-03	5580	-0.40	1.44E-12	7827	-0.38	3.13E-12
849	0.10	7.09E-03	3240	-0.20	1.30E-03	5585	0.20	2.46E-04	7828	-0.43	1.24E-10
850	-0.20	4.74E-06	3241	-0.40	1.23E-06	5590	0.40	5.21E-17	7841	0.35	3.97E-05
854	-0.30	3.39E-07	3245	0.30	3.16E-09	5592	0.30	4.55E-09	7843	0.25	1.17E-07
855	0.20	4.31E-03	3254	-0.20	6.87E-04	5593	-0.30	3.33E-05	7854	-0.54	1.07E-06
858	-0.20	3.32E-04	3257	0.10	9.95E-03	5594	-0.10	1.12E-03	7857	-0.24	5.42E-03
864	0.30	7.61E-08	3258	0.20	3.82E-05	5596	-0.30	4.51E-08	7858	-0.31	4.06E-08
865	0.30	1.32E-07	3260	0.20	9.79E-05	5597	-0.30	5.35E-08	7859	-0.16	1.55E-03
867	-0.20	3.77E-05	3263	0.20	6.53E-04	5602	-0.20	2.37E-07	7860	-0.67	1.89E-17
870	0.30	4.60E-10	3266	0.20	2.58E-05	5605	-0.50	2.71E-09	7861	-0.29	4.87E-05
871	-0.20	4.28E-04	3272	0.40	1.21E-09	5606	-0.40	1.25E-07	7863	0.27	3.64E-08
873	-0.30	1.19E-06	3276	-0.10	5.85E-03	5608	-0.50	4.30E-25	7871	0.51	1.23E-23

875	-0.40	3.57E-10	3277	-0.10	6.13E-03	5614	-0.40	1.37E-05	7873	0.19	9.13E-05
879	-0.20	2.23E-03	3281	-0.40	6.00E-05	5619	0.30	8.53E-12	7876	-0.34	2.58E-11
882	-0.30	6.37E-06	3286	0.30	3.98E-11	5621	0.20	7.50E-04	7877	-0.14	4.61E-03
885	-0.30	1.71E-03	3289	-0.30	2.98E-03	5622	0.20	7.74E-04	7879	-0.40	1.19E-11
896	0.20	2.02E-05	3302	0.20	5.22E-05	5623	0.30	1.34E-06	7885	0.41	8.48E-09
900	0.20	5.87E-07	3303	0.20	4.65E-05	5624	-0.20	1.43E-03	7888	0.21	1.27E-05
901	-0.20	8.53E-05	3309	-0.30	9.67E-03	5625	-0.40	2.57E-08	7889	-0.29	2.86E-09
906	0.30	2.61E-03	3310	0.20	2.90E-05	5626	0.20	5.87E-04	7891	-0.19	3.34E-05
912	0.30	3.77E-06	3312	-0.40	1.37E-17	5627	0.30	3.52E-07	7894	0.17	2.25E-03
919	0.40	1.14E-07	3313	-0.40	1.91E-16	5630	0.20	3.79E-03	7900	-0.54	1.11E-12
928	0.40	2.90E-21	3315	-0.20	4.51E-03	5632	0.10	8.40E-03	7901	0.23	1.93E-05
934	-0.30	4.75E-08	3317	0.40	3.21E-17	5637	0.20	2.66E-03	7908	-0.20	2.79E-04
936	-0.20	2.97E-04	3321	0.40	3.81E-19	5638	0.30	3.16E-07	7911	-0.45	7.87E-03
939	0.40	8.79E-15	3322	-0.30	1.47E-07	5639	-0.30	1.81E-09	7914	0.20	2.68E-05
942	-0.30	3.94E-03	3327	-0.30	8.59E-04	5646	-0.10	2.24E-03	7915	0.20	2.31E-05
945	0.40	3.30E-17	3328	0.10	7.88E-03	5647	-0.20	6.09E-04	7916	0.17	6.08E-04
948	-0.20	4.73E-05	3333	0.20	2.60E-04	5648	-0.30	1.29E-04	7921	-0.21	3.18E-03
949	-0.40	6.33E-15	3334	-0.30	2.51E-04	5654	-0.20	9.13E-04	7927	0.26	9.48E-08
951	-0.20	2.64E-03	3340	0.20	5.23E-06	5664	-0.30	6.67E-03	7929	-0.18	2.05E-03
954	0.30	2.26E-12	3341	-0.20	1.03E-05	5665	0.20	4.56E-03	7937	0.14	1.47E-03
957	0.20	1.80E-03	3343	-0.20	3.72E-05	5666	-0.30	2.36E-03	7939	0.34	7.28E-13
958	0.20	1.64E-03	3344	-0.20	9.70E-06	5668	-0.30	4.34E-08	7941	0.20	1.30E-03
960	-0.20	3.36E-05	3353	0.40	4.49E-15	5670	0.30	5.12E-09	7942	-0.19	8.44E-05
962	0.40	3.57E-11	3357	-0.20	1.57E-03	5674	-0.80	2.35E-27	7946	-0.27	5.69E-03
963	-0.70	1.31E-14	3359	-0.30	1.20E-10	5677	0.20	6.67E-06	7950	-0.24	7.29E-07
964	0.30	2.73E-08	3367	0.30	1.21E-06	5679	-0.20	4.90E-03	7952	0.29	1.97E-09
975	0.20	2.22E-05	3371	0.40	5.43E-17	5682	0.30	5.41E-09	7954	-0.28	7.33E-04
979	0.30	1.39E-08	3372	-0.30	2.46E-10	5684	0.30	2.23E-04	7956	-0.18	8.69E-04
984	0.40	6.22E-14	3374	-0.30	6.43E-06	5688	-0.40	3.49E-07	7959	-0.18	6.10E-04
989	0.20	4.65E-03	3379	-0.50	4.00E-07	5691	0.20	1.71E-06	7964	0.32	6.07E-12
992	-0.20	7.79E-03	3390	0.20	7.09E-03	5695	0.30	5.05E-03	7965	0.47	2.05E-24
994	-0.10	3.95E-03	3391	0.30	1.12E-14	5701	0.30	3.17E-06	7966	-0.35	5.07E-08
996	0.20	4.84E-03	3392	0.30	8.07E-09	5703	0.50	1.53E-23	7974	0.24	9.75E-04
998	0.30	8.22E-08	3394	0.20	2.22E-04	5704	0.30	4.91E-10	7976	-0.17	4.25E-04
1004	-0.30	1.18E-05	3395	0.30	6.64E-10	5705	0.20	3.10E-07	7981	0.15	1.94E-03
1009	-0.20	8.67E-06	3396	-0.30	2.85E-06	5707	-0.30	3.31E-06	7982	0.39	4.28E-13
1010	-0.20	3.99E-03	3406	-0.20	1.34E-03	5708	-0.60	1.18E-06	7983	0.22	1.70E-05
1012	0.30	2.86E-10	3407	0.30	1.28E-12	5710	0.20	1.56E-04	7987	-0.33	6.60E-03
1016	-0.40	1.10E-13	3415	0.30	4.01E-04	5711	-0.30	1.38E-05	7994	-0.17	9.62E-03
1021	0.20	2.00E-05	3416	0.10	1.82E-03	5713	0.20	1.38E-06	7997	0.17	3.93E-03

293											
1028	-0.40	1.14E-03	3417	0.30	9.20E-10	5723	-0.30	2.31E-04	8007	-0.60	4.91E-03
1029	-0.30	6.13E-06	3418	0.20	4.61E-06	5731	0.20	5.70E-04	8008	-0.16	4.53E-03
1031	-0.40	3.67E-07	3419	0.20	7.99E-04	5737	-0.30	3.73E-05	8009	-0.32	4.10E-09
1032	0.10	3.90E-03	3420	0.30	2.02E-08	5739	0.10	2.92E-03	8012	-0.49	2.16E-08
1033	0.10	6.47E-03	3423	0.20	7.10E-06	5741	-0.20	1.53E-07	8013	-0.35	6.04E-05
1035	-0.30	7.39E-07	3428	-0.20	3.44E-04	5742	-0.20	1.78E-07	8015	0.28	9.35E-05
1037	-0.30	4.92E-06	3433	-0.20	1.04E-03	5746	0.10	9.68E-03	8016	-0.17	7.62E-03
1048	-0.20	9.96E-03	3435	-0.40	4.92E-04	5752	0.20	2.19E-05	8018	0.27	1.53E-05
1049	-0.20	3.69E-04	3438	-0.20	3.27E-12	5753	-0.40	4.64E-05	8022	-0.30	2.89E-05
1052	-0.10	8.53E-03	3439	-0.50	1.91E-08	5754	0.40	7.36E-21	8024	-0.33	1.68E-10
1056	0.20	9.26E-05	3440	-0.40	8.97E-04	5756	0.30	1.61E-09	8025	-0.58	2.28E-10
1057	0.10	2.20E-03	3441	0.20	4.87E-03	5760	0.20	2.54E-04	8026	0.20	6.50E-03
1063	0.20	4.37E-07	3442	-0.20	1.79E-03	5761	0.20	2.43E-05	8028	-0.34	2.98E-06
1065	-0.10	4.16E-03	3444	-0.30	2.42E-03	5762	0.20	2.72E-05	8031	0.21	1.79E-03
1072	0.20	7.80E-04	3448	0.20	2.60E-04	5763	0.30	2.93E-04	8032	-0.30	5.71E-10
1074	0.20	2.70E-03	3451	0.30	1.88E-05	5764	0.20	1.87E-05	8037	-0.44	2.58E-08
1075	-0.40	2.68E-04	3460	-0.30	6.39E-03	5768	-0.20	8.51E-04	8040	0.33	4.06E-09
1084	0.20	1.61E-05	3463	-0.10	3.86E-03	5772	0.40	7.30E-05	8044	0.19	7.24E-09
1089	-0.20	2.49E-03	3465	0.20	1.80E-03	5775	0.30	9.11E-08	8046	0.28	1.53E-07
1090	-0.40	7.96E-03	3466	0.20	5.73E-06	5777	0.40	1.54E-06	8048	-0.29	2.44E-06
1091	-0.40	3.38E-03	3467	0.30	5.74E-09	5784	-0.30	5.19E-06	8052	0.15	2.05E-03
1094	0.30	5.26E-12	3468	0.20	7.57E-05	5785	-0.60	5.05E-08	8055	0.29	5.42E-07
1097	-0.30	3.80E-12	3479	-0.30	5.38E-04	5788	-0.30	9.89E-06	8060	-0.23	2.79E-06
1098	-0.20	6.70E-07	3480	-0.20	8.34E-03	5790	-0.30	3.19E-03	8062	-0.32	3.90E-08
1100	-0.20	8.92E-06	3482	-0.20	3.58E-05	5791	-0.30	1.79E-07	8063	-0.32	1.75E-08
1105	-0.10	1.74E-03	3483	0.20	4.54E-03	5793	0.20	7.11E-03	8067	0.13	6.00E-03
1107	0.30	4.36E-03	3485	-0.50	2.42E-18	5796	-0.20	5.58E-04	8070	0.17	4.34E-04
1110	-0.40	1.07E-15	3489	0.20	1.99E-05	5798	-0.20	5.53E-04	8075	-0.33	8.13E-13
1113	-0.20	5.05E-05	3490	0.30	3.53E-07	5800	-0.30	4.43E-10	8083	-0.23	1.48E-06
1114	-0.20	8.21E-04	3491	0.40	4.94E-17	5806	-0.50	1.61E-09	8084	0.12	9.85E-03
1115	-0.20	1.27E-03	3497	-0.20	1.38E-04	5807	0.10	6.09E-03	8085	-0.32	2.00E-07
1121	-0.20	5.33E-03	3500	-0.20	3.07E-03	5808	0.50	1.61E-08	8086	0.17	7.13E-04
1128	-0.20	2.91E-04	3503	-0.30	4.19E-05	5809	-0.40	5.99E-05	8087	-0.31	3.02E-09
1129	-0.30	1.91E-04	3506	-0.30	1.08E-03	5812	0.20	1.48E-03	8089	0.36	9.05E-08
1133	-0.30	3.83E-03	3510	-0.20	1.05E-05	5815	-0.30	6.26E-04	8090	0.30	4.20E-08
1140	0.30	2.38E-09	3511	0.30	5.19E-07	5816	-0.50	3.33E-04	8092	-0.29	1.06E-03
1141	0.20	4.87E-05	3514	-0.30	8.36E-09	5819	-0.30	1.79E-07	8093	-0.13	7.12E-03
1142	-0.30	6.57E-09	3518	-0.40	2.37E-03	5821	-0.30	9.85E-09	8094	0.49	5.23E-23
1151	0.10	6.91E-03	3523	0.20	7.40E-04	5822	-0.30	9.88E-05	8101	-0.18	9.27E-03

1152	0.40	2.68E-08	3527	0.10	4.30E-03	5823	-0.30	8.43E-03	8102	-0.24	6.43E-07
1154	-0.30	3.27E-05	3529	0.20	1.26E-03	5824	-0.30	4.51E-03	8105	0.35	1.50E-10
1161	0.20	1.30E-05	3530	-0.20	1.07E-04	5825	-0.50	4.44E-13	8107	0.21	9.86E-04
1162	0.10	7.15E-03	3533	-0.10	9.15E-03	5828	-0.30	2.99E-05	8110	-0.34	1.85E-05
1163	0.40	1.10E-07	3539	0.30	2.38E-09	5831	-0.20	4.38E-05	8111	-0.55	1.53E-25
1164	0.20	7.66E-04	3540	-0.10	5.14E-03	5835	0.30	6.92E-09	8117	0.13	5.94E-03
1165	0.20	3.83E-04	3548	-0.70	5.62E-06	5838	-0.30	2.30E-11	8119	-0.38	1.47E-15
1167	0.20	2.24E-04	3550	0.20	1.35E-04	5840	0.10	9.21E-03	8127	0.36	1.78E-15
1170	-0.20	2.58E-09	3554	0.20	1.33E-08	5846	0.20	1.78E-03	8132	-0.19	7.36E-04
1171	0.20	5.96E-06	3557	-0.50	4.12E-04	5856	0.40	2.67E-14	8133	-0.19	1.53E-04
1172	-0.20	2.05E-03	3558	-0.60	5.65E-26	5861	0.20	3.14E-03	8134	0.40	9.18E-12
1174	-0.30	1.08E-04	3559	-0.80	1.28E-06	5868	0.40	1.35E-22	8142	-0.25	3.44E-06
1178	0.10	4.23E-03	3563	-0.30	1.13E-03	5873	-0.20	2.99E-03	8143	-0.24	4.02E-06
1183	0.10	2.47E-03	3568	0.30	1.15E-10	5874	0.10	5.99E-03	8146	0.22	1.58E-06
1185	0.40	1.67E-11	3569	0.20	1.39E-07	5875	-0.40	6.68E-12	8147	0.31	1.82E-11
1186	0.20	3.06E-05	3575	-0.40	1.54E-03	5876	-0.20	5.35E-03	8149	0.24	1.91E-07
1187	0.30	3.12E-11	3578	0.30	3.20E-03	5880	0.20	4.27E-04	8150	0.43	2.67E-11
1188	0.30	4.24E-11	3579	0.10	1.42E-03	5884	-0.30	1.18E-08	8159	-0.16	6.91E-04
1194	0.20	5.12E-05	3580	-0.30	4.80E-04	5887	-0.50	2.64E-09	8161	0.28	1.41E-09
1195	0.30	1.48E-11	3582	-0.20	1.94E-06	5892	-0.10	2.32E-03	8163	-0.33	1.77E-13
1201	-0.10	4.85E-03	3588	-0.20	7.14E-06	5896	0.10	2.45E-03	8166	0.35	1.64E-13
1202	0.30	6.02E-05	3591	0.20	3.70E-03	5897	-0.40	7.43E-16	8168	-0.25	2.34E-07
1203	0.10	2.98E-03	3593	-0.40	2.18E-12	5898	-0.40	3.05E-05	8172	0.17	6.59E-03
1213	0.30	1.14E-11	3594	0.40	2.17E-12	5900	-0.40	5.16E-03	8173	0.18	2.46E-04
294											
1214	0.10	7.67E-03	3596	-0.20	9.88E-05	5901	-0.30	1.71E-08	8174	0.23	8.40E-04
1217	0.40	2.65E-05	3599	0.40	8.03E-12	5904	0.20	8.64E-04	8176	-0.22	1.31E-03
1229	-0.20	6.82E-07	3601	-0.30	6.62E-07	5906	0.20	1.86E-05	8179	0.34	1.16E-03
1230	0.40	1.24E-04	3608	-0.20	5.94E-05	5910	-0.30	1.16E-03	8183	-0.17	2.28E-03
1237	-0.30	1.53E-05	3609	-0.40	1.29E-03	5914	0.50	5.98E-23	8184	-0.19	1.17E-03
1238	0.10	1.01E-03	3613	0.30	5.52E-08	5916	0.20	2.14E-06	8188	0.27	3.74E-09
1239	-0.30	3.65E-08	3614	-0.30	1.13E-06	5918	-0.20	2.64E-04	8189	-0.29	2.27E-07
1241	0.40	2.49E-05	3615	0.30	2.66E-08	5921	-0.50	6.59E-08	8190	-0.26	6.34E-03
1242	0.20	2.77E-03	3617	0.30	3.95E-05	5922	-0.50	3.02E-07	8192	0.49	9.63E-21
1244	0.40	8.11E-17	3618	0.40	1.97E-16	5924	-0.20	2.80E-05	8193	0.16	3.14E-03
1251	0.20	2.50E-06	3621	-0.30	1.53E-03	5929	-0.30	3.02E-07	8194	-0.37	3.18E-07
1252	-0.20	2.43E-03	3625	0.30	1.80E-17	5930	-0.50	2.89E-21	8196	-0.18	6.84E-04
1254	-0.50	8.47E-11	3631	-0.40	2.27E-12	5931	0.30	1.97E-04	8208	0.13	4.53E-04
1255	0.10	2.76E-03	3636	-0.30	1.77E-06	5933	-0.50	1.44E-06	8210	0.22	7.70E-03
1256	0.30	2.58E-08	3647	-0.20	1.26E-03	5942	0.30	5.20E-07	8212	-0.38	1.25E-07

1264	0.20	2.73E-04	3649	0.20	4.91E-06	5952	-0.20	1.24E-03	8219	0.25	3.81E-04
1265	0.30	3.31E-09	3652	-0.50	6.31E-04	5955	0.30	1.53E-06	8220	-0.28	1.71E-04
1266	-0.20	1.06E-06	3653	-0.10	5.33E-03	5956	-0.50	8.60E-05	8224	-0.19	3.29E-03
1267	0.20	1.21E-03	3655	-0.30	1.71E-07	5957	-0.20	5.25E-03	8228	0.19	7.71E-05
1274	0.20	2.65E-03	3658	0.40	1.54E-09	5958	0.10	8.40E-03	8230	-0.17	1.01E-03
1276	-0.40	1.66E-07	3661	-0.30	5.61E-09	5966	0.30	1.67E-08	8233	-0.46	1.53E-21
1278	-0.20	5.91E-07	3666	-0.20	2.63E-03	5968	-0.30	8.64E-10	8235	-0.28	4.80E-10
1281	0.20	8.94E-06	3667	0.40	3.97E-11	5969	-0.20	1.64E-04	8237	0.29	1.18E-06
1283	0.30	1.33E-06	3668	0.30	3.41E-10	5970	0.20	1.46E-05	8238	0.29	7.17E-07
1287	-0.30	2.01E-08	3671	-0.20	6.29E-03	5971	0.40	4.84E-17	8239	0.27	1.64E-07
1291	0.30	5.60E-10	3673	0.50	1.04E-08	5973	0.20	6.65E-06	8240	-0.41	5.22E-15
1299	-0.40	2.37E-08	3683	-0.30	3.25E-09	5975	0.10	2.74E-03	8241	-0.17	8.23E-04
1303	0.10	2.43E-05	3690	0.10	2.20E-03	5978	-0.20	1.74E-03	8243	-0.25	1.74E-04
1305	0.40	3.24E-19	3693	-0.10	7.87E-03	5979	0.30	2.25E-08	8244	-0.36	7.49E-12
1309	0.20	2.03E-03	3695	-0.20	6.56E-03	5986	0.20	4.39E-04	8246	-0.56	1.24E-07
1319	0.30	5.66E-08	3697	-0.20	2.02E-04	5989	0.20	9.00E-06	8250	0.39	1.06E-04
1327	-0.20	1.48E-03	3700	0.30	6.22E-12	5990	-0.20	7.76E-06	8255	-0.23	4.12E-06
1329	-0.20	5.39E-05	3703	0.20	3.51E-03	5992	-0.20	1.22E-06	8259	0.14	5.83E-05
1332	0.30	5.36E-06	3704	0.30	7.69E-07	5993	-0.20	2.89E-03	8260	0.23	1.17E-06
1333	0.30	4.36E-05	3706	-0.40	2.70E-15	5994	0.20	4.12E-04	8261	0.38	1.87E-12
1339	-0.30	1.01E-09	3708	0.20	6.79E-06	5995	0.20	3.37E-04	8267	-0.29	6.26E-03
1346	-0.30	7.55E-09	3711	0.20	9.84E-07	5996	0.20	8.51E-04	8272	0.16	5.95E-03
1348	-0.30	1.18E-03	3713	0.30	9.85E-06	5997	0.20	9.35E-04	8274	0.22	3.48E-06
1351	-0.20	6.04E-04	3714	-0.10	1.70E-04	5998	-0.20	1.79E-05	8276	-0.42	5.07E-17
1354	-0.30	1.62E-06	3722	0.30	4.83E-08	5999	-0.20	1.84E-04	8277	-0.40	3.81E-04
1355	0.20	1.69E-04	3723	-0.40	5.18E-04	6002	-0.10	3.38E-03	8280	-0.13	4.03E-03
1357	0.20	2.47E-03	3728	0.30	4.09E-10	6005	-0.20	2.06E-05	8281	-0.26	5.90E-04
1360	0.20	2.42E-04	3729	-0.30	6.86E-07	6006	-0.20	5.12E-05	8285	0.19	9.44E-05
1364	0.40	3.73E-17	3730	0.10	1.13E-04	6013	-0.50	9.08E-06	8286	0.31	5.66E-03
1366	0.20	7.00E-04	3731	0.20	1.40E-03	6015	-0.20	1.30E-03	8287	-0.30	3.24E-10
1370	-0.80	5.62E-13	3734	0.40	4.74E-12	6016	-0.30	6.23E-09	8289	-0.42	1.17E-15
1373	0.30	3.31E-07	3735	-0.40	2.32E-06	6024	0.20	6.78E-05	8300	-0.30	1.41E-06
1375	-0.30	9.26E-07	3736	0.20	4.32E-04	6030	-0.20	1.16E-04	8308	0.25	2.17E-03
1378	-0.30	1.60E-04	3740	-0.20	2.87E-06	6031	0.30	6.47E-08	8312	0.26	9.21E-08
1380	-0.80	3.30E-15	3742	-0.20	2.75E-04	6033	-0.50	9.21E-14	8318	-0.26	1.17E-07
1384	-0.20	4.97E-04	3745	0.20	8.18E-04	6035	0.20	2.55E-04	8321	-0.35	1.10E-05
1385	-0.40	5.40E-15	3749	-0.30	5.57E-08	6036	-0.40	7.30E-12	8323	-0.20	6.13E-04
1389	0.40	7.46E-08	3752	-0.30	3.28E-08	6037	-0.20	2.66E-03	8325	-0.22	3.94E-03
1390	-0.50	1.62E-06	3753	-0.40	1.03E-11	6041	-0.10	7.15E-03	8330	0.13	6.65E-03
1392	-0.30	3.24E-05	3757	0.20	6.48E-03	6052	-0.30	8.05E-07	8332	-0.33	6.94E-07

1393	-0.40	1.18E-16	3759	-0.50	1.27E-11	6058	-0.10	7.39E-03	8333	0.28	7.54E-09
1395	0.10	7.32E-03	3760	0.40	2.25E-16	6061	-0.30	1.12E-03	8334	-0.21	1.04E-03
1396	-0.30	1.15E-08	3762	-0.40	3.39E-05	6066	0.20	8.51E-05	8336	-0.24	1.34E-04
1397	0.20	1.04E-04	3763	0.30	1.19E-06	6068	0.30	1.34E-10	8340	-0.52	2.22E-09
1400	-0.30	1.34E-03	3765	-0.20	1.56E-05	6069	-0.10	4.56E-03	8341	0.15	1.41E-03
1401	-0.40	1.25E-15	3768	-0.40	5.67E-05	6071	0.10	9.07E-03	8343	0.23	3.29E-05
1402	-0.10	5.37E-03	3770	0.30	1.72E-10	6075	-0.10	2.35E-04	8348	0.19	2.05E-03
1404	0.10	7.67E-03	3772	-0.40	1.98E-08	6081	0.10	5.28E-03	8349	-0.15	5.14E-03
295											
1406	-0.40	3.90E-12	3776	-0.40	2.28E-12	6086	-0.30	2.67E-08	8351	0.26	1.19E-08
1409	0.20	1.54E-07	3777	-0.40	4.67E-04	6087	-0.20	4.15E-04	8352	-0.26	1.30E-07
1410	-0.50	1.28E-19	3778	0.10	9.15E-04	6088	-0.20	3.35E-04	8353	-0.38	2.72E-17
1411	0.50	4.72E-14	3779	0.20	4.01E-06	6089	-0.20	1.88E-05	8354	-0.33	1.20E-04
1419	-0.10	6.32E-03	3780	0.30	1.44E-12	6092	-0.20	3.93E-03	8356	-0.16	9.58E-04
1421	0.10	6.70E-05	3785	-0.10	3.82E-03	6093	-0.20	7.16E-03	8358	-0.39	5.35E-11
1429	-0.20	8.60E-06	3786	-0.10	3.58E-03	6095	0.30	1.45E-04	8361	0.25	1.76E-08
1430	-0.10	3.93E-03	3788	-0.40	5.93E-14	6102	-0.20	2.12E-04	8362	-0.24	1.38E-03
1431	0.30	2.86E-08	3789	-0.30	3.47E-03	6103	-0.30	2.28E-07	8363	-0.23	1.60E-03
1434	0.20	1.85E-04	3792	-0.20	9.01E-03	6104	-0.30	1.98E-08	8365	-0.22	8.20E-05
1436	-0.30	1.75E-08	3793	-0.30	2.09E-07	6105	0.30	7.35E-13	8366	-0.22	7.06E-05
1439	0.20	2.52E-07	3796	-0.60	6.77E-15	6110	-0.30	1.05E-03	8367	-0.19	6.31E-07
1443	0.30	6.12E-08	3797	-0.50	5.17E-15	6112	-0.40	2.83E-12	8368	-0.16	7.86E-04
1444	0.30	3.69E-08	3800	0.30	2.78E-04	6117	-0.30	1.03E-07	8375	-0.39	1.71E-03
1448	-0.30	2.98E-07	3801	0.20	3.19E-04	6118	0.30	1.30E-10	8377	0.22	7.20E-06
1450	-0.20	1.77E-03	3802	-0.30	9.30E-03	6127	-0.40	1.15E-06	8383	0.29	3.22E-08
1451	0.40	4.41E-12	3804	0.30	4.32E-08	6131	0.20	2.03E-09	8384	-0.45	5.86E-05
1455	0.20	8.37E-04	3805	0.20	1.26E-04	6134	-0.40	8.77E-13	8387	0.24	2.43E-05
1456	-0.20	2.08E-05	3808	-0.20	2.57E-05	6135	-0.40	2.77E-05	8388	0.13	4.58E-03
1460	-0.20	6.04E-03	3810	-0.20	9.44E-07	6136	-0.30	3.16E-08	8391	-0.33	1.71E-11
1464	0.50	1.81E-23	3812	-0.30	3.28E-10	6137	-0.30	5.02E-08	8395	-0.26	3.04E-08
1466	-0.30	2.75E-05	3818	-0.30	2.43E-04	6141	0.30	5.64E-11	8397	0.29	1.68E-09
1467	0.30	5.13E-12	3821	0.30	2.50E-05	6142	-0.10	5.87E-03	8398	0.27	1.08E-08
1472	-0.20	5.32E-05	3823	-0.10	2.26E-03	6143	-0.40	2.46E-12	8402	-0.24	5.43E-04
1475	-0.30	2.36E-08	3825	0.20	3.96E-03	6147	-0.20	8.13E-03	8403	0.19	2.45E-04
1478	0.30	2.05E-08	3834	-0.20	5.70E-04	6148	-0.50	1.88E-03	8405	0.17	2.68E-04
1490	0.10	8.26E-03	3841	-0.30	2.46E-04	6150	-0.20	3.89E-03	8411	-0.22	1.61E-05
1491	0.40	4.65E-15	3842	-0.20	1.04E-04	6152	0.30	2.58E-12	8412	-0.22	1.78E-05
1494	0.20	5.01E-03	3851	-0.20	3.60E-04	6158	-0.20	2.21E-06	8413	0.26	8.77E-08
1495	0.20	5.28E-03	3859	-0.40	7.17E-17	6161	-0.30	2.32E-05	8417	0.15	1.98E-03
1498	-0.50	3.78E-25	3862	0.20	6.97E-05	6168	-0.30	4.69E-03	8420	0.22	3.53E-06

1504	-0.20	5.02E-03	3865	-0.20	2.43E-05	6172	0.30	9.10E-09	8421	-0.54	1.23E-21
1505	0.30	2.09E-08	3866	0.20	1.10E-03	6177	0.20	5.63E-06	8423	-0.36	1.23E-10
1506	-0.20	1.53E-03	3871	0.20	2.93E-03	6181	0.20	9.64E-05	8425	-0.25	1.62E-06
1507	0.50	2.07E-08	3878	-0.30	9.21E-08	6186	0.20	1.13E-03	8433	-0.30	5.23E-08
1524	0.20	3.13E-06	3879	-0.30	1.43E-10	6188	0.20	1.17E-03	8434	-0.58	8.20E-05
1526	-0.30	5.09E-07	3884	-0.50	1.56E-19	6194	0.20	1.68E-03	8436	-0.17	4.82E-03
1527	-0.20	9.18E-04	3885	0.30	2.00E-10	6197	0.20	3.44E-04	8446	-0.26	4.89E-07
1530	-0.40	1.88E-15	3886	0.40	8.29E-18	6198	0.20	2.88E-04	8451	-0.40	1.08E-11
1532	-0.30	2.65E-05	3889	-0.50	9.29E-05	6200	0.20	6.48E-04	8454	-0.50	2.28E-21
1533	0.40	5.64E-17	3900	-0.30	1.24E-07	6201	-0.20	3.96E-05	8455	0.17	3.32E-04
1544	0.20	2.60E-03	3902	-0.50	4.29E-12	6203	0.20	1.74E-03	8457	0.29	5.19E-04
1545	0.30	3.40E-06	3909	-0.30	3.37E-05	6204	-0.50	8.73E-11	8460	-0.19	1.15E-03
1548	-0.20	9.80E-05	3910	0.20	3.17E-04	6214	0.30	2.53E-07	8464	0.23	1.98E-06
1552	0.20	1.13E-03	3912	-0.20	1.77E-04	6219	0.30	1.92E-08	8466	0.44	4.82E-20
1554	0.30	6.91E-04	3914	-0.50	2.01E-21	6221	0.20	6.39E-04	8467	0.36	1.72E-15
1558	0.10	8.11E-03	3917	0.30	3.35E-07	6229	-0.20	1.47E-05	8476	-0.18	1.24E-04
1560	0.40	2.14E-12	3918	-0.30	5.47E-05	6230	0.20	1.97E-06	8477	-0.19	1.08E-04
1571	-0.10	7.19E-03	3919	0.30	4.45E-04	6238	0.10	2.89E-03	8478	-0.18	1.90E-04
1573	0.20	1.94E-06	3922	-0.30	2.18E-08	6239	-0.30	1.55E-08	8484	-0.46	1.39E-09
1575	-0.20	1.21E-04	3925	0.30	4.14E-06	6240	-0.20	4.99E-03	8485	0.20	2.67E-04
1577	0.20	9.46E-03	3926	0.30	1.47E-10	6241	0.10	2.00E-03	8486	0.15	3.58E-03
1580	0.20	3.22E-04	3927	-0.40	8.09E-14	6245	0.40	3.69E-18	8488	0.20	3.41E-07
1581	0.30	4.26E-08	3929	0.30	9.31E-09	6246	-0.20	3.76E-04	8489	-0.34	1.78E-07
1585	-0.20	7.68E-05	3931	0.10	5.86E-03	6248	-0.40	6.50E-05	8490	-0.48	5.80E-05
1587	-0.70	3.74E-05	3937	-0.20	2.15E-06	6249	0.50	7.82E-27	8501	0.29	6.29E-06
1588	-0.30	2.63E-07	3938	0.30	3.32E-09	6250	-0.40	4.56E-17	8508	-0.24	6.43E-07
1591	-0.30	3.16E-05	3940	0.20	1.28E-06	6253	-0.40	4.54E-20	8509	0.19	7.96E-03
1597	-0.20	4.18E-03	3945	-0.40	1.24E-05	6254	-0.20	4.99E-03	8515	0.23	1.39E-06
1599	0.60	5.39E-33	3946	0.50	1.71E-31	6257	-0.40	4.33E-04	8517	0.17	5.48E-03
1601	-0.30	1.44E-07	3947	-0.20	7.14E-05	6258	-0.40	9.08E-10	8520	-0.47	3.37E-05
1604	-0.20	6.30E-04	3950	0.10	3.02E-03	6261	0.30	7.90E-14	8521	0.18	3.30E-04
1607	-0.30	2.38E-03	3951	0.10	8.91E-03	6263	-0.30	8.99E-06	8522	0.16	9.93E-04
296											
1612	0.20	4.69E-07	3953	-0.30	3.99E-04	6264	-0.40	2.20E-06	8523	0.16	1.62E-03
1614	0.30	1.40E-11	3957	-0.30	1.25E-04	6266	-0.40	1.15E-04	8524	0.16	2.02E-03
1615	-0.50	1.10E-07	3961	0.20	5.40E-04	6267	-0.60	6.69E-11	8529	-0.25	6.33E-03
1616	0.30	2.35E-11	3964	-0.30	1.95E-04	6272	-0.20	2.03E-05	8532	-0.22	3.01E-04
1617	-0.20	1.65E-04	3971	0.20	1.58E-03	6280	-0.20	3.76E-03	8539	0.18	3.12E-04
1618	0.20	3.64E-05	3972	0.50	2.79E-16	6284	0.30	1.33E-09	8541	0.38	2.60E-08
1620	-0.40	8.54E-18	3978	-0.30	1.48E-10	6285	0.20	9.68E-08	8544	-0.18	1.20E-03

1622	0.20	1.02E-06	3983	0.20	2.84E-03	6286	-0.30	8.81E-03	8547	-0.53	1.20E-07
1623	0.30	9.34E-10	3985	-0.50	1.06E-04	6291	0.30	1.36E-04	8548	-0.55	5.11E-05
1625	0.30	8.43E-10	3994	0.20	8.68E-05	6293	0.20	1.62E-03	8550	-0.20	1.23E-04
1630	-0.20	6.20E-04	3996	-0.20	3.21E-04	6294	-0.30	1.38E-07	8557	-0.55	1.63E-08
1634	0.20	1.29E-03	4001	0.30	9.74E-04	6297	0.20	2.04E-03	8559	0.32	4.88E-12
1635	-0.10	3.16E-03	4002	-0.20	4.69E-05	6303	0.30	1.13E-08	8560	0.25	3.11E-07
1636	-0.50	4.77E-05	4011	0.20	3.31E-04	6304	0.30	4.70E-09	8561	0.20	1.57E-03
1637	0.30	1.14E-09	4015	0.30	1.54E-10	6305	0.30	1.61E-07	8563	0.30	3.59E-06
1640	-0.30	4.73E-07	4017	-0.30	2.18E-06	6307	-0.30	8.58E-05	8569	-0.21	9.54E-03
1642	0.20	6.48E-06	4021	0.40	2.19E-05	6310	0.30	2.38E-11	8576	-0.38	8.97E-11
1643	0.30	1.11E-05	4022	-0.30	5.44E-07	6318	-0.30	4.14E-07	8577	0.19	5.31E-05
1644	-0.50	8.01E-11	4023	-0.20	7.73E-03	6321	0.20	1.17E-04	8578	0.32	6.53E-05
1652	0.20	1.36E-04	4025	0.50	1.01E-24	6323	0.20	1.79E-03	8580	-0.34	1.22E-07
1653	0.50	2.92E-24	4027	0.20	1.41E-05	6325	0.20	1.15E-04	8585	0.29	8.49E-05
1662	-0.30	1.87E-03	4031	-0.30	2.93E-03	6328	-0.10	6.88E-03	8589	-0.35	5.64E-08
1663	-0.40	3.44E-05	4032	0.30	2.48E-12	6329	-0.20	3.60E-03	8592	-0.30	2.27E-05
1664	-0.20	6.50E-05	4035	-0.20	1.43E-03	6330	-0.30	1.84E-06	8593	-0.32	2.61E-09
1665	-0.20	1.76E-03	4039	0.20	4.78E-04	6333	0.20	2.64E-03	8596	-0.20	2.83E-03
1668	0.10	3.96E-03	4041	-0.30	1.33E-05	6337	-0.40	3.93E-14	8598	-0.26	1.02E-05
1676	-0.20	7.25E-03	4043	0.20	6.92E-06	6340	-0.40	3.51E-09	8607	-0.17	5.22E-04
1677	0.40	2.64E-14	4044	-0.30	5.91E-06	6345	0.20	4.28E-04	8608	-0.22	4.71E-03
1678	0.30	3.53E-04	4045	0.30	3.74E-08	6346	-0.30	7.22E-04	8611	-0.26	1.22E-08
1681	0.50	1.17E-16	4050	0.20	7.69E-05	6348	0.10	3.13E-03	8613	-0.25	1.06E-05
1684	0.20	8.68E-04	4051	-0.40	9.31E-23	6349	-0.20	2.56E-03	8614	-0.28	8.32E-06
1686	0.30	1.50E-10	4052	-0.50	4.08E-24	6351	-0.30	1.78E-09	8616	-0.22	3.18E-05
1696	-0.50	2.17E-04	4056	0.10	6.61E-03	6352	-0.50	6.25E-09	8617	0.31	5.69E-06
1705	-0.40	6.99E-04	4059	0.10	5.46E-03	6356	0.20	1.55E-04	8619	0.24	8.52E-03
1713	0.20	6.08E-04	4060	0.30	4.17E-11	6359	-0.20	3.43E-04	8624	0.15	2.95E-03
1717	-0.30	4.43E-04	4061	0.30	4.25E-11	6360	-0.50	4.63E-05	8627	-0.32	9.72E-08
1718	0.20	1.77E-04	4065	-0.40	1.45E-04	6361	0.20	9.19E-04	8630	0.22	8.43E-04
1722	0.40	1.80E-21	4070	-0.40	7.50E-12	6365	-0.20	1.32E-06	8642	-0.27	3.20E-03
1727	0.20	4.71E-04	4075	-0.50	2.17E-21	6366	-0.20	6.03E-05	8646	0.17	4.99E-03
1730	0.40	3.51E-15	4076	-0.60	8.62E-09	6369	0.20	1.46E-05	8647	-0.36	3.46E-10
1731	-0.30	2.84E-09	4077	-0.10	6.65E-03	6373	0.40	8.37E-14	8648	-0.23	6.10E-04
1737	0.30	5.47E-06	4079	0.30	9.81E-05	6375	0.30	5.35E-07	8650	-0.35	6.52E-06
1741	0.20	1.99E-03	4081	0.20	2.33E-05	6376	0.30	2.19E-13	8651	-0.32	1.26E-05
1743	-0.40	2.52E-05	4084	0.40	6.95E-18	6377	0.30	3.04E-07	8654	0.26	1.84E-05
1744	0.30	1.36E-06	4096	0.50	3.26E-13	6381	0.40	2.43E-15	8659	-0.27	1.73E-04
1745	0.30	1.09E-06	4097	-0.20	5.90E-07	6382	-0.20	4.77E-04	8662	-0.52	4.43E-03
1751	0.50	2.20E-28	4098	-0.20	6.85E-06	6385	-0.20	5.76E-06	8664	0.26	1.18E-06

1752	0.40	2.02E-19	4106	-0.20	1.14E-04	6388	-0.20	6.11E-04	8668	-0.19	1.13E-03
1757	-0.20	2.64E-03	4120	-0.30	7.06E-07	6394	0.20	1.03E-05	8674	-0.11	2.44E-03
1758	0.30	6.72E-04	4121	-0.50	3.14E-16	6396	-0.30	5.90E-06	8675	-0.15	4.51E-03
1760	0.20	2.53E-04	4122	-0.20	5.20E-06	6397	-0.20	2.99E-03	8676	-0.41	1.93E-14
1761	-0.20	9.68E-05	4130	0.30	9.25E-10	6398	-0.40	7.38E-11	8679	0.18	6.55E-05
1764	-0.20	1.29E-04	4134	-0.30	5.23E-11	6402	-0.40	2.86E-06	8683	-0.31	1.56E-05
1768	-0.40	4.92E-08	4135	-0.20	1.45E-03	6404	0.20	6.72E-04	8686	0.17	8.60E-05
1772	-0.20	2.76E-03	4137	0.20	7.36E-04	6408	0.40	7.14E-18	8688	-0.25	3.29E-06
1773	-0.20	3.75E-03	4155	0.30	3.47E-11	6411	-0.20	7.27E-04	8689	0.25	6.69E-07
1776	-0.30	9.22E-08	4156	0.40	1.26E-17	6412	0.20	1.31E-04	8690	-0.26	1.29E-04
1778	-0.30	3.79E-03	4158	0.20	1.18E-03	6415	-0.30	6.51E-08	8692	-0.25	3.82E-03
1780	0.50	1.83E-23	4159	0.30	3.76E-07	6416	0.20	1.87E-06	8693	-0.60	1.43E-19
1784	0.40	1.26E-05	4164	0.20	2.72E-04	6417	0.30	7.70E-12	8694	0.29	6.42E-09
1788	-0.30	1.26E-05	4165	-0.30	2.28E-07	6420	-0.30	2.97E-08	8699	0.24	1.66E-07
1789	0.30	1.88E-06	4166	-0.30	2.59E-10	6431	-0.70	4.81E-07	8700	0.44	1.07E-11
1790	-0.20	1.69E-06	4167	0.20	1.07E-03	6433	-0.20	9.09E-05	8703	0.18	9.59E-03
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1792	0.20	8.90E-03	4170	0.50	8.41E-20	6434	0.20	1.14E-03	8704	-0.28	3.09E-04
1794	0.20	1.25E-03	4184	-0.20	3.70E-03	6436	0.40	3.75E-15	8705	-0.30	7.46E-04
1795	-0.20	9.29E-04	4186	-0.20	9.99E-03	6437	0.30	2.75E-07	8706	-0.29	2.95E-03
1798	0.30	1.88E-05	4187	0.30	5.17E-06	6438	0.20	3.60E-04	8707	-0.69	6.65E-09
1799	0.10	2.53E-03	4194	-0.20	5.45E-07	6439	0.10	6.38E-03	8708	-0.69	8.24E-09
1803	-0.40	5.55E-06	4196	0.20	7.77E-05	6440	0.30	9.83E-12	8710	-0.59	6.62E-14
1804	-0.50	4.78E-05	4197	-0.20	2.75E-06	6441	0.30	3.44E-04	8712	-0.25	1.59E-05
1805	-0.40	2.68E-10	4202	0.40	3.16E-15	6452	-0.20	5.65E-03	8713	-0.23	1.96E-03
1806	0.50	1.92E-05	4203	0.20	1.60E-03	6454	-0.10	2.10E-03	8715	-0.36	2.42E-12
1813	0.20	2.70E-05	4204	-0.20	5.68E-04	6455	0.20	1.29E-05	8720	-0.17	1.96E-04
1815	-0.50	1.27E-07	4205	0.20	2.84E-06	6461	-0.30	1.03E-05	8724	0.35	2.95E-09
1816	0.30	7.99E-06	4211	0.20	2.39E-04	6463	-0.10	5.45E-03	8728	-0.75	1.46E-28
1820	-0.30	3.34E-06	4214	-0.40	2.60E-07	6464	-0.30	3.60E-06	8729	-0.26	6.20E-03
1823	0.20	3.21E-03	4215	0.20	1.19E-05	6468	-0.40	3.28E-08	8731	0.20	4.49E-05
1825	-0.40	6.17E-13	4217	0.10	4.39E-03	6473	-0.20	3.97E-03	8732	0.16	5.92E-04
1827	-0.30	2.13E-10	4219	0.40	2.00E-08	6477	0.20	8.30E-04	8733	-0.43	8.43E-13
1829	-0.40	3.03E-06	4230	-0.30	8.18E-05	6478	0.20	1.64E-04	8740	0.33	5.16E-17
1836	-0.30	7.11E-06	4231	0.30	4.51E-10	6485	-0.30	3.45E-07	8744	-0.47	1.04E-15
1837	0.20	1.15E-04	4234	-0.50	3.32E-15	6487	0.20	2.13E-07	8745	-0.19	6.61E-04
1846	-0.30	9.39E-06	4236	0.30	7.13E-06	6493	-0.50	2.41E-05	8747	0.14	2.58E-03
1849	0.30	3.33E-09	4241	0.20	5.09E-03	6498	-0.20	2.02E-06	8749	0.24	1.60E-05
1853	0.50	5.34E-08	4244	-0.30	8.39E-09	6502	-0.40	2.10E-05	8752	0.24	9.72E-05
1858	-0.30	1.37E-11	4245	-0.40	1.83E-06	6504	-0.10	8.89E-03	8754	0.32	3.94E-06

1862	-0.30	1.94E-11	4246	-0.30	6.63E-10	6505	-0.30	1.85E-08	8756	0.20	1.23E-04
1864	-0.30	1.52E-05	4248	-0.70	2.79E-06	6515	0.30	4.12E-06	8757	-0.42	1.91E-15
1867	-0.40	4.24E-07	4249	0.20	2.16E-04	6520	0.20	4.03E-04	8758	0.16	4.02E-03
1869	0.40	5.87E-16	4252	-0.30	5.69E-09	6521	-0.20	6.17E-04	8759	-0.60	1.90E-06
1871	-0.20	4.09E-04	4259	0.50	1.52E-16	6522	0.20	1.82E-03	8763	0.14	4.33E-03
1875	-0.50	7.41E-07	4261	0.30	1.74E-09	6523	-0.30	5.92E-15	8764	-0.48	2.52E-05
1876	0.30	1.55E-09	4264	-0.20	6.62E-03	6531	0.50	3.62E-11	8766	0.13	9.85E-03
1884	-0.40	3.00E-10	4265	0.30	6.36E-09	6532	-0.40	3.82E-06	8767	-0.26	1.07E-04
1889	-0.40	1.60E-17	4266	-0.40	7.31E-04	6535	-0.20	1.96E-04	8773	-0.41	2.92E-15
1890	0.30	1.07E-08	4268	-0.20	1.73E-04	6537	-0.10	6.59E-03	8774	0.21	8.23E-06
1893	0.30	3.98E-05	4270	-0.20	3.49E-04	6540	-0.30	5.50E-10	8780	0.20	1.89E-03
1896	0.20	8.38E-04	4271	-0.50	5.02E-05	6544	0.20	8.94E-08	8782	0.14	4.53E-03
1900	0.40	5.55E-07	4272	0.20	1.95E-04	6545	0.20	5.68E-04	8785	-0.39	2.11E-03
1905	-0.30	5.82E-04	4274	-0.20	1.05E-05	6548	-0.20	3.38E-04	8789	-0.26	7.93E-03
1906	-0.30	9.75E-06	4276	-0.30	1.02E-05	6549	-0.20	2.80E-04	8792	-0.42	6.80E-06
1907	-0.20	4.88E-03	4277	-0.20	8.24E-05	6550	-0.20	1.87E-05	8793	0.24	7.83E-06
1910	0.50	9.35E-08	4278	-0.20	6.33E-04	6551	-0.30	6.69E-05	8795	-0.14	1.44E-03
1912	0.20	2.29E-04	4279	-0.20	6.89E-05	6555	0.20	1.06E-05	8797	-0.17	1.67E-04
1914	0.10	2.84E-03	4285	0.30	6.34E-08	6557	0.10	1.48E-03	8800	0.44	1.81E-12
1922	-0.10	2.30E-03	4297	0.40	1.08E-16	6561	-0.50	1.11E-04	8801	-0.27	8.09E-04
1924	-0.30	3.09E-06	4298	-0.20	1.77E-04	6564	0.30	7.90E-07	8805	-0.32	2.01E-12
1926	0.20	8.31E-06	4299	-0.40	2.02E-08	6565	0.20	6.68E-07	8810	-0.25	1.33E-07
1927	-0.30	3.62E-04	4301	-0.50	1.17E-11	6566	-0.30	1.24E-03	8820	-0.15	3.43E-03
1928	-0.40	3.30E-12	4304	0.30	9.37E-04	6568	-0.30	9.35E-11	8822	-0.22	2.67E-05
1929	0.30	2.91E-12	4313	0.30	1.39E-07	6571	-0.50	2.55E-07	8824	-0.49	1.08E-09
1930	0.30	2.56E-12	4314	0.10	3.33E-03	6572	-0.20	3.69E-04	8825	-0.13	9.94E-03
1931	0.30	1.02E-04	4315	-0.20	1.20E-05	6576	0.20	4.86E-03	8832	-0.25	6.49E-04
1932	-0.40	3.43E-04	4319	-0.20	1.35E-03	6577	0.20	4.06E-04	8834	0.31	4.52E-09
1938	-0.30	2.20E-07	4321	-0.20	6.67E-03	6580	-0.20	1.00E-03	8839	-0.73	9.82E-16
1939	0.30	3.05E-13	4327	0.20	9.71E-05	6582	0.30	3.48E-09	8841	-0.22	2.98E-04
1941	0.50	6.48E-25	4328	0.30	3.77E-04	6583	-0.20	1.72E-05	8846	-0.21	8.33E-04
1952	-0.30	2.01E-03	4331	-0.10	6.29E-03	6584	-0.20	7.70E-04	8848	-0.45	2.67E-17
1963	-0.50	1.63E-03	4332	-0.20	4.84E-04	6585	-0.10	9.37E-03	8849	-0.72	4.00E-11
1964	0.20	1.69E-04	4333	-0.30	2.78E-05	6587	0.20	9.69E-07	8851	-0.14	9.94E-03
1965	0.20	1.86E-03	4334	0.40	8.35E-23	6591	0.20	1.37E-03	8854	-0.33	2.00E-04
1969	0.20	2.97E-05	4335	0.30	1.03E-07	6596	-0.20	2.67E-04	8855	-0.34	3.70E-10
1971	0.30	1.31E-09	4341	0.20	1.14E-03	6600	0.40	1.93E-12	8857	0.19	7.28E-05
1974	-0.20	1.63E-04	4343	0.20	5.69E-04	6601	-0.30	1.42E-06	8860	-0.48	3.12E-04
1978	-0.30	7.79E-05	4345	0.20	4.60E-05	6603	-0.30	8.28E-04	8861	-0.20	1.30E-04
1980	0.20	3.17E-05	4352	0.30	1.58E-10	6605	0.10	3.51E-03	8865	-0.38	4.27E-11

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1981	0.40	1.27E-12	4354	0.30	4.83E-08	6606	0.40	3.66E-05	8866	-0.16	1.01E-03
1986	-0.40	3.19E-04	4358	0.50	4.26E-07	6615	0.20	4.08E-07	8867	0.31	1.13E-09
1990	-0.40	7.90E-06	4362	-0.40	9.25E-10	6617	0.30	2.24E-05	8880	-0.14	7.24E-03
1992	0.30	1.88E-05	4379	-0.70	3.08E-06	6619	-0.20	2.65E-05	8883	-0.61	3.69E-05
1996	0.50	4.46E-13	4386	-0.30	1.51E-08	6621	-0.30	5.60E-09	8888	0.23	5.03E-07
1997	0.20	3.64E-03	4387	-0.20	5.02E-04	6626	-0.30	5.89E-10	8893	0.28	9.38E-09
1999	0.20	6.27E-05	4395	0.20	2.24E-05	6630	-0.20	5.72E-03	8897	0.17	8.44E-04
2002	-1.10	7.09E-09	4396	0.30	1.45E-08	6635	-0.40	9.29E-07	8898	-0.27	3.76E-09
2004	0.30	8.46E-06	4398	-0.20	2.08E-04	6639	0.40	8.23E-17	8899	-0.26	4.01E-08
2009	-0.40	9.08E-13	4399	0.30	1.56E-05	6640	-0.40	1.87E-06	8902	0.25	5.76E-04
2015	-0.50	1.26E-06	4400	-0.40	1.71E-05	6643	0.30	2.33E-13	8903	0.27	3.21E-04
2017	-0.30	4.73E-08	4401	-0.50	1.25E-08	6644	-0.20	1.31E-03	8904	-0.20	1.27E-03
2018	0.20	1.43E-05	4405	-0.40	9.83E-05	6647	0.20	3.22E-04	8908	-0.43	9.61E-20
2019	0.20	1.92E-05	4409	-0.10	8.42E-03	6648	-0.60	4.02E-06	8910	0.38	2.86E-15
2024	0.30	4.90E-09	4410	-0.20	1.57E-03	6651	-0.30	1.92E-04	8911	0.24	6.41E-07
2030	0.20	8.23E-07	4415	-0.30	5.06E-07	6658	-0.20	1.38E-04	8913	0.18	1.18E-03
2036	0.40	2.71E-03	4417	0.40	4.02E-11	6659	0.40	1.95E-22	8914	0.30	1.45E-06
2037	-0.20	2.57E-03	4419	-0.30	5.91E-04	6660	-0.50	3.53E-19	8915	-0.17	4.88E-03
2038	0.30	2.10E-03	4425	0.30	4.59E-11	6668	0.20	4.45E-04	8916	-0.17	5.63E-03
2044	-0.40	1.20E-10	4426	-0.40	2.89E-08	6669	0.10	2.37E-03	8919	-0.28	3.80E-06
2048	0.20	2.72E-04	4427	-0.20	1.93E-04	6671	-0.30	5.23E-09	8922	-0.26	2.15E-08
2049	0.20	4.35E-06	4430	0.20	1.84E-06	6675	-0.30	2.32E-04	8928	-0.30	4.43E-08
2056	-0.20	6.58E-07	4435	-0.50	2.17E-05	6676	-0.20	1.57E-03	8930	0.15	9.82E-03
2059	0.40	1.00E-14	4440	-0.30	2.74E-03	6678	0.40	3.85E-08	8941	-0.37	2.97E-04
2071	0.20	3.21E-03	4445	0.20	6.84E-03	6679	-0.20	1.36E-04	8946	-0.32	1.74E-03
2075	-0.40	3.16E-14	4446	-0.60	1.15E-18	6681	0.20	1.48E-04	8952	0.33	5.34E-10
2077	0.40	1.23E-22	4450	-0.20	2.30E-06	6683	-0.30	2.36E-08	8954	0.46	1.30E-21
2078	-0.20	8.44E-06	4454	0.20	3.32E-03	6685	-0.20	4.99E-03	8955	0.12	9.41E-03
2080	-0.10	6.51E-03	4459	-0.10	4.81E-03	6688	-0.30	6.42E-03	8957	0.28	5.45E-08
2088	0.30	4.65E-07	4460	-0.10	6.27E-03	6689	-0.30	1.81E-07	8958	0.20	4.65E-05
2089	-0.20	2.89E-03	4467	0.20	3.90E-03	6690	-0.40	1.07E-07	8959	-0.26	2.16E-04
2090	-0.20	1.87E-05	4468	-0.20	5.69E-03	6692	0.10	2.17E-03	8960	-0.31	2.28E-11
2093	-0.30	3.59E-16	4469	-0.20	7.91E-03	6693	-0.40	1.09E-03	8963	-0.37	7.67E-06
2094	-0.30	1.15E-08	4471	-0.40	4.87E-03	6694	-0.40	9.04E-04	8965	-0.18	3.32E-04
2098	0.20	9.71E-03	4472	-0.20	5.41E-04	6695	-0.40	9.28E-04	8967	0.20	2.29E-03
2101	-0.20	6.52E-03	4473	-0.40	4.06E-05	6697	0.40	5.18E-13	8968	0.17	5.80E-03
2102	-0.10	7.48E-03	4476	-0.10	2.54E-03	6701	-0.20	2.84E-03	8969	-0.17	5.15E-03
2105	0.30	8.20E-06	4478	-0.50	4.90E-12	6703	-0.30	7.06E-06	8970	-0.16	1.23E-04
2107	0.50	2.53E-21	4481	0.10	7.36E-03	6706	-0.20	6.67E-04	8971	0.16	3.68E-05

2108	0.30	1.66E-03	4482	-0.30	4.63E-05	6708	-0.30	5.60E-06	8977	0.21	4.51E-05
2110	0.20	2.01E-04	4485	-0.30	3.55E-09	6709	0.30	1.30E-08	8980	-0.19	1.86E-04
2114	-0.40	5.66E-04	4486	0.30	9.91E-06	6714	-0.30	6.18E-10	8981	-0.49	4.10E-17
2115	-0.40	3.99E-04	4487	0.50	2.40E-24	6716	0.20	3.15E-05	8985	-0.76	8.13E-09
2116	-0.30	3.18E-03	4493	-0.40	1.11E-09	6717	0.20	1.32E-04	8987	-0.30	2.11E-08
2117	-0.20	2.57E-03	4501	0.20	4.25E-05	6718	-0.40	3.60E-05	8996	0.14	9.75E-03
2118	0.30	2.15E-07	4505	0.20	8.49E-06	6722	-0.30	7.49E-09	8997	0.31	1.57E-10
2121	0.20	2.28E-03	4507	-0.20	3.58E-03	6724	0.30	2.91E-09	8999	0.32	5.98E-08
2123	0.30	3.79E-06	4508	0.20	8.45E-04	6727	0.50	8.88E-13	9000	-0.27	3.26E-03
2126	0.40	3.20E-14	4515	0.20	1.21E-06	6735	0.30	5.99E-06	9002	0.23	3.03E-04
2128	-0.20	9.45E-04	4517	0.20	2.54E-05	6738	-0.20	1.85E-04	9003	0.35	1.12E-13
2131	-0.60	8.12E-08	4522	-0.20	5.57E-03	6748	0.20	1.09E-06	9006	0.22	4.22E-06
2133	0.20	6.82E-04	4523	0.30	4.43E-08	6749	-0.50	1.42E-11	9010	-0.22	3.21E-06
2134	0.30	8.41E-07	4525	-0.40	1.51E-08	6751	-0.20	3.23E-04	9011	0.27	2.14E-08
2137	0.10	3.05E-04	4528	-0.30	4.46E-04	6754	0.20	1.30E-03	9013	-0.31	4.08E-08
2140	0.20	3.20E-04	4529	-0.60	9.43E-05	6755	0.30	7.44E-11	9027	-0.36	9.33E-12
2141	0.10	2.29E-04	4530	0.20	8.59E-03	6757	-0.50	9.22E-16	9030	0.17	4.62E-04
2144	-0.10	8.75E-03	4536	0.30	2.20E-12	6762	-0.20	1.35E-05	9032	0.20	8.29E-03
2162	0.20	2.69E-04	4537	-0.20	4.60E-03	6764	0.20	5.77E-04	9040	-0.25	8.80E-07
2163	-0.30	2.24E-04	4542	0.50	1.08E-28	6774	-0.20	1.35E-04	9043	-0.58	1.61E-09
2172	0.30	9.32E-12	4543	0.40	1.80E-08	6775	0.20	2.48E-03	9046	-0.37	7.52E-09
2177	0.20	6.86E-04	4544	-0.20	7.32E-04	6776	0.20	1.34E-05	9049	-0.37	3.59E-04
2187	-0.40	7.09E-11	4545	0.20	7.68E-04	6780	-0.40	3.04E-16	9050	-0.38	4.67E-09
2195	-0.30	2.19E-07	4549	0.20	1.42E-03	6783	-0.20	2.11E-06	9055	-0.36	1.91E-09
299											
2200	-0.30	7.03E-04	4551	-0.30	7.40E-05	6790	-0.20	2.80E-04	9056	-0.19	1.51E-05
2201	0.20	1.68E-06	4558	0.30	6.28E-07	6798	0.30	3.25E-04	9057	-0.26	6.18E-09
2203	-0.20	1.11E-03	4559	0.30	1.02E-06	6799	0.20	1.04E-07	9059	-0.38	1.83E-07
2210	-0.20	3.96E-03	4560	-0.20	1.21E-06	6806	-0.20	4.62E-04	9065	0.22	1.51E-04
2211	0.20	2.16E-05	4562	-0.20	2.23E-03	6808	-0.30	3.98E-05	9070	0.29	8.27E-05
2215	0.30	2.09E-06	4567	-0.40	1.75E-07	6813	-0.20	3.69E-03	9072	0.15	2.90E-03
2218	0.20	2.63E-06	4572	-0.30	8.42E-03	6817	-0.50	4.13E-04	9081	0.15	1.86E-03
2224	0.40	1.39E-16	4576	0.10	2.12E-03	6818	-0.50	2.80E-25	9084	-0.39	9.01E-10
2226	-0.50	7.09E-05	4578	0.30	1.64E-10	6819	-0.40	4.69E-04	9087	-0.24	1.21E-07
2227	-0.30	3.37E-06	4580	-0.20	7.91E-04	6820	-0.40	4.62E-04	9092	-0.16	3.99E-03
2228	-0.40	4.91E-06	4622	-0.30	3.49E-09	6980	-0.20	1.48E-03	11932	-0.18	9.31E-03
2229	-0.30	7.50E-07	4623	-0.20	3.14E-05	6991	-0.20	4.16E-03	11936	-0.13	6.09E-03
2231	0.40	1.12E-14	4627	-0.30	1.50E-04	12132	0.17	3.44E-04	11939	-0.25	6.21E-05
2232	-0.20	2.58E-03	4629	0.30	2.61E-09	12141	-0.15	1.41E-05	11940	-0.20	6.77E-05
2237	-0.30	1.31E-03	4634	-0.50	4.99E-15	12147	0.22	9.28E-05	11943	0.32	1.54E-05

2245	-0.30	3.01E-05	4647	0.30	3.62E-07	12153	-0.30	2.32E-06	11944	-0.16	9.93E-03
2248	-0.20	9.28E-06	4651	0.40	9.37E-17	9246	0.12	9.18E-03	11947	-0.20	1.59E-05
2250	-0.30	5.92E-10	4654	-0.60	1.91E-17	9093	0.22	6.78E-05	11959	0.37	1.20E-08
2251	-0.30	1.46E-06	4662	-0.30	1.38E-07	9094	0.18	2.48E-03	11961	-0.33	2.65E-11
2257	-0.20	2.99E-03	4664	0.30	2.41E-08	9095	-0.37	2.95E-03	11963	0.15	1.25E-03
2260	-0.20	3.92E-04	4669	-0.20	2.63E-04	9096	-0.20	1.42E-05	11972	-0.48	1.88E-04
2261	-0.30	3.16E-08	4670	-0.20	3.34E-04	9101	0.48	8.20E-25	11976	-0.36	3.30E-06
2268	-0.30	1.15E-05	4671	-0.30	2.81E-06	9103	0.21	2.49E-04	11977	-0.22	1.39E-06
2272	0.20	2.59E-03	4675	0.20	9.18E-05	9106	-0.45	1.96E-05	12000	-0.43	1.41E-16
2275	-0.30	4.41E-10	4677	-0.10	6.18E-03	9110	-0.35	2.67E-04	12010	0.20	1.06E-03
2284	-0.20	1.90E-04	4678	0.40	7.22E-11	9113	-0.32	2.07E-05	12012	-0.21	6.42E-03
2285	-0.30	3.10E-09	4679	-0.40	8.33E-18	9125	-0.49	1.88E-05	12022	-0.49	1.13E-07
2293	0.30	8.53E-09	4687	0.20	1.05E-03	9127	-0.36	2.40E-11	12032	0.42	2.63E-17
2294	0.30	8.88E-09	4688	0.20	6.42E-05	9129	0.51	3.17E-29	12036	0.14	4.13E-03
2295	-0.30	7.76E-05	4689	-0.20	3.09E-04	9132	-0.32	6.22E-11	12043	-0.23	9.10E-06
2300	0.50	7.97E-24	4690	-0.50	5.14E-13	9136	-0.43	7.72E-04	12045	-0.36	3.94E-04
2303	0.50	4.51E-15	12095	-0.29	5.08E-07	9138	0.43	6.11E-21	12046	0.17	3.99E-03
2304	0.20	2.09E-07	12118	-0.35	6.10E-04	9140	0.23	1.62E-04	12058	0.12	8.07E-03
2311	0.20	1.28E-06	12126	0.19	3.07E-05	9142	0.23	9.75E-07	12060	0.20	1.37E-03
2314	0.20	3.46E-06	12130	-0.56	4.46E-04	9150	0.13	6.76E-03	12063	0.23	2.06E-05
2315	0.20	2.08E-06	12131	-0.43	7.61E-06	9154	-0.31	1.11E-03	12065	-0.21	5.99E-03
2316	0.30	2.45E-07	6834	-0.10	1.85E-03	9155	-0.20	1.59E-03	12067	-0.48	2.18E-08
2320	-0.10	3.40E-03	6835	0.20	2.36E-04	9158	0.24	5.52E-06	12071	0.37	6.27E-05
2323	0.30	1.44E-09	6836	-0.20	1.22E-03	9160	-0.21	9.05E-03	12073	-0.41	2.22E-09
2324	-0.40	1.60E-14	6839	0.40	2.22E-18	9161	-0.20	6.56E-05	12076	0.26	1.02E-08
2325	-0.40	1.01E-12	6842	-0.40	9.66E-04	9165	0.24	3.86E-13	12078	0.18	5.34E-03
2328	0.20	1.50E-06	6843	-0.20	1.03E-04	9166	-0.19	2.34E-04	12081	-0.27	3.57E-08
2329	-0.30	2.63E-07	6849	-0.80	9.00E-09	9173	0.24	2.99E-07	12086	-0.16	1.14E-03
2330	0.20	1.34E-04	6854	-0.20	3.20E-03	9174	0.24	2.25E-03	12090	0.21	9.62E-06
2334	-0.10	2.31E-03	6856	-0.30	1.07E-08	9178	-0.32	4.53E-05	2383	-0.10	7.05E-03
2335	-0.60	8.46E-23	6862	-0.50	1.23E-04	9179	-0.30	9.54E-05	2388	-0.20	8.81E-07
2341	-0.20	1.00E-03	6869	-0.40	3.69E-12	9182	-0.17	1.33E-03	2389	-0.50	6.15E-19
2343	0.30	2.19E-09	6870	-0.50	1.05E-05	9183	-0.33	2.47E-13	2390	-0.20	1.92E-03
2345	-0.30	7.81E-07	6876	0.20	4.82E-04	9184	0.16	7.65E-04	2391	-0.10	5.77E-03
2354	-0.50	9.55E-07	6879	-0.30	8.16E-10	9187	-0.23	8.84E-09	2393	-0.30	2.33E-12
9231	-0.19	1.53E-03	6886	-0.20	3.65E-05	9191	-0.22	1.05E-05	2394	-0.30	7.42E-08
9232	-0.23	2.70E-03	6887	-0.30	1.83E-10	9192	-0.37	7.42E-13	2396	-0.20	3.02E-03
9237	-0.26	2.42E-08	6889	-0.20	3.10E-06	9194	0.17	5.00E-04	2398	0.20	4.29E-06
9241	-0.20	1.52E-04	6894	0.40	8.70E-11	9200	-0.39	2.23E-10	2399	-0.10	9.68E-03
9244	-0.19	3.03E-04	6895	0.20	5.84E-05	9201	0.24	1.74E-06	2400	0.30	5.01E-11

4581	0.40	1.80E-19	6899	0.20	6.66E-05	9207	0.24	1.85E-07	4691	-0.40	1.33E-10

A	B	C	A	B	C
9258	0.27	2.30E-04	12162	-0.30	4.87E-10
9259	-0.32	1.19E-03	12166	-0.39	2.64E-07
9260	-0.40	1.58E-14	12168	0.24	3.04E-06
9261	0.14	6.19E-05	12170	-0.24	2.95E-05
9265	0.37	2.93E-06	12174	-0.38	7.70E-16
9266	-0.44	1.49E-10	12175	0.16	4.87E-04
9269	-0.28	8.58E-08	12186	0.31	1.73E-10
9275	-0.17	1.08E-03	12187	-0.17	7.24E-04
9280	0.12	7.07E-03	12190	-0.30	5.19E-08
9281	-0.50	4.25E-24	12193	-0.25	6.81E-07
9285	0.18	2.94E-04	12200	0.29	5.34E-09
9288	-0.26	1.05E-07	12208	0.19	3.70E-05
9289	-0.35	8.02E-05	12214	0.24	2.33E-05
9290	-0.23	1.49E-06	12215	-0.43	8.08E-08
9293	-0.25	3.26E-06	12219	-0.19	1.64E-04
9294	-0.24	4.29E-06	12226	-0.21	1.83E-03
9300	0.32	3.01E-11	12228	-0.58	4.11E-07
9301	0.25	9.66E-05	12230	0.38	3.24E-08
9302	0.18	3.81E-03	12232	0.41	1.21E-17
9305	0.24	1.60E-06	12235	-0.39	4.93E-06
9306	0.18	3.30E-03	12240	0.23	5.63E-06
9307	0.24	2.06E-05	12241	-0.65	9.51E-13
9311	-0.26	3.65E-07	12242	-0.20	3.22E-05
9314	0.41	5.07E-13	12250	-0.15	4.75E-03
9315	-0.19	2.17E-04	12253	-0.19	5.30E-04
9316	0.23	1.98E-04	12275	0.21	5.43E-05
9319	0.14	2.78E-03	12283	-0.16	8.77E-03
9326	-0.26	2.38E-04	12284	0.30	7.40E-10
9327	-0.59	2.90E-11	12286	0.21	1.64E-03
9329	-0.14	1.77E-03	12288	0.28	1.89E-08
9335	-0.19	3.38E-03	12291	0.47	1.71E-26
9339	-0.15	1.49E-03	12292	0.24	4.55E-07
9341	-0.14	3.49E-03	12293	-0.53	1.02E-10
9342	-0.49	5.66E-10	12302	0.20	4.94E-04
9347	-0.43	4.45E-19	12304	-0.19	7.68E-05
9348	-0.10	3.36E-03	12308	0.18	5.31E-04
9349	-0.50	1.02E-08	12310	0.45	1.90E-08

9352	0.28	3.81E-07	12317	0.18	6.26E-05
9353	0.28	4.63E-07	12322	0.31	8.04E-13
9355	0.39	4.66E-16	12326	-0.14	7.84E-03
9356	-0.22	1.44E-05	12330	0.30	5.86E-08
9357	-0.21	4.76E-05	12336	0.36	1.48E-15
9360	-0.28	6.74E-05	12343	-0.39	1.23E-04
9367	-0.25	2.60E-04	12344	0.31	6.44E-12
9368	0.51	1.17E-28	12356	-0.48	3.16E-14
9369	0.12	8.67E-03	12358	-0.46	2.84E-20
9373	0.37	6.28E-15	12368	0.25	8.40E-09
9376	0.15	2.30E-03	12376	0.27	3.99E-07
9383	-0.24	1.36E-06	12378	-0.40	8.12E-03
9386	-0.24	4.01E-06	12381	-0.29	1.57E-05
9388	-0.39	3.21E-05	12393	0.33	3.49E-13
9390	-0.24	6.51E-04	12400	-0.12	8.38E-03
9394	-0.46	9.57E-09	12409	0.26	1.18E-08
9397	-0.27	7.11E-06	12411	0.30	9.05E-06
9402	-0.51	9.71E-19	12412	-0.26	1.25E-07
9404	-0.27	1.20E-06	12414	0.16	7.40E-03
9405	-0.30	3.88E-05	12415	0.36	1.44E-04
9406	-0.20	5.99E-09	12423	-0.18	6.79E-04
9413	-0.43	2.27E-07	12433	0.24	3.08E-07
9421	-0.22	1.18E-03	12444	-0.34	4.63E-04
9423	-0.20	2.52E-04	12458	0.36	1.07E-14
9424	-0.30	2.56E-07	12462	0.27	1.00E-08
9430	-0.17	6.25E-04	12463	-0.16	5.10E-04
9432	0.24	1.78E-04	12465	-0.49	3.84E-08
9437	-0.72	1.89E-08	12466	-0.36	7.92E-09
9443	0.15	2.15E-03	12469	-0.38	3.44E-09
9444	0.27	2.08E-03	12477	-0.38	1.84E-07
9445	-0.33	7.06E-08	12482	-0.46	2.59E-10
9449	0.27	1.51E-03	12489	-0.36	2.64E-06
9450	0.29	2.53E-03	12491	0.36	6.70E-15
9452	-0.38	7.40E-06	12498	0.35	1.51E-13
9453	0.21	2.78E-04	12500	-0.27	1.45E-04
9458	-0.49	1.32E-03	12503	0.14	5.04E-03
9459	-0.26	1.44E-07	12509	-0.51	1.20E-12
9464	-0.22	1.14E-03	12510	-0.25	1.60E-05
9472	-0.28	9.49E-07	12518	0.27	1.07E-08

9476	-0.25	3.87E-07	12519	-0.17	1.87E-03
9478	0.40	3.73E-08	12521	0.43	2.21E-19
9480	-0.22	4.69E-03	12522	-0.23	5.95E-06
9483	-0.33	6.80E-07	12524	0.36	9.69E-15
9485	-0.26	1.24E-05	12529	0.31	2.67E-10
9494	-0.56	2.23E-04	12532	0.13	6.95E-03
9498	-0.16	1.16E-03	12536	-0.33	2.47E-09
9500	-0.26	5.28E-06	12544	0.36	2.77E-10
9502	0.15	1.94E-03	12545	-0.51	6.74E-05
9505	-0.20	5.68E-09	12546	0.33	1.46E-12
9506	0.21	1.11E-03	12547	-0.27	1.34E-07
9507	0.13	5.31E-03	12549	0.16	4.16E-03
9508	0.24	2.80E-07	12561	-0.41	3.81E-03
9517	-0.22	7.99E-04	12565	0.39	4.42E-07
9521	-0.22	4.13E-06	12573	0.20	4.06E-03
9529	0.19	1.27E-04	12577	-0.34	1.01E-11
9530	-0.35	4.02E-08	12583	-0.34	2.95E-05
9531	-0.36	2.10E-11	12584	-0.50	3.71E-14
9538	-0.40	1.47E-08	12588	-0.31	3.03E-03
9540	-0.29	8.67E-07	12590	-0.49	4.09E-08
9542	-0.46	4.28E-04	12591	-0.32	3.52E-09
9543	-0.17	1.19E-03	12592	0.32	6.75E-09
9544	0.15	7.31E-05	12597	-0.26	6.10E-07
9553	-0.24	3.65E-06	12598	-0.43	4.74E-11
9557	-0.20	1.16E-04	12599	0.11	7.98E-03
9558	-0.21	9.20E-05	12602	-0.18	3.27E-04
9561	-0.17	1.00E-03	12604	-0.31	8.10E-03
9575	0.36	5.57E-14	12605	-0.22	4.78E-06
9582	0.19	1.53E-04	12606	-0.21	2.25E-04
9583	-0.31	4.61E-04	12610	-0.38	3.65E-03
9584	-0.17	4.24E-04	12613	-0.56	5.56E-20
9587	0.29	6.52E-11	12617	-0.21	3.24E-03
9589	0.19	9.22E-04	12623	-0.19	2.80E-04
9590	0.15	2.48E-03	12625	0.26	1.17E-07
9594	-0.23	1.40E-05	12627	-0.32	2.88E-03
9595	-0.26	4.84E-05	12630	0.25	8.63E-05
9598	-0.34	9.78E-08	12644	-0.33	2.26E-09
9609	0.44	3.45E-14	12655	-0.19	2.07E-04
9615	-0.19	2.28E-04	12656	-0.51	9.74E-17
9617	-0.39	4.24E-08	12657	0.38	2.77E-13

9624	0.14	2.68E-03	12668	-0.57	2.31E-20
9625	0.19	8.86E-03	12673	-0.39	1.14E-12
9628	-0.44	5.70E-06	12675	-0.43	1.21E-14
9633	-0.58	6.33E-08	12679	-0.22	1.53E-03
9635	0.16	9.81E-04	12682	0.35	5.27E-08
9636	-0.40	1.77E-07	12683	-0.30	2.69E-09
9645	0.18	4.89E-05	12686	0.37	2.83E-04
9646	-0.40	1.53E-14	12693	0.23	1.95E-06
9647	-0.50	3.28E-05	12699	-0.25	8.20E-05
9656	-0.20	3.75E-04	12702	-0.41	4.05E-03
9660	-0.31	1.72E-08	12705	-0.24	7.43E-07
9665	-0.61	5.73E-18	12706	0.19	6.48E-05
9670	0.18	3.15E-04	12711	0.21	4.38E-04
9671	0.32	1.46E-09	12725	-0.63	6.01E-20
9672	-0.31	1.72E-09	12728	-0.47	1.11E-08
9676	0.30	1.17E-10	12740	-0.21	4.19E-05
9680	0.44	1.75E-21	12742	-0.20	1.20E-03
9681	0.27	1.13E-04	12752	-0.22	1.22E-04
9682	-0.19	6.14E-05	12754	-0.23	1.79E-03
9684	0.21	1.01E-05	12757	0.26	4.68E-04
9685	-0.45	4.80E-10	12766	-0.45	3.79E-08
9686	-0.24	9.02E-04	12781	-0.24	1.66E-04
9687	-0.20	5.01E-05	12786	0.18	6.17E-04
9688	0.21	1.07E-05	12788	-0.46	7.29E-05
9689	-0.45	3.05E-03	12794	-0.26	1.23E-07
9692	0.17	8.41E-04	12795	0.16	7.35E-04
9694	0.34	4.55E-10	12798	-0.19	4.89E-05
9695	-0.56	8.39E-07	12799	0.47	9.52E-19
9696	-0.24	1.10E-03	12804	-0.33	4.65E-03
9698	0.34	1.04E-13	12814	-0.44	4.03E-04
9699	-0.37	1.24E-10	12816	-0.46	4.79E-10
9701	-0.31	2.46E-06	12820	0.24	1.09E-03
9707	-0.29	1.29E-08	12828	-0.17	9.16E-04
9711	-0.15	5.30E-05	12833	-0.34	2.18E-10
9712	-0.53	1.64E-03	12837	0.21	4.54E-05
9714	0.29	1.51E-10	12840	-0.65	5.20E-09
9715	-0.30	3.29E-10	12847	-0.37	1.29E-04
9716	0.13	6.84E-03	12849	-0.23	1.43E-06
9718	-0.22	1.46E-05	12850	0.26	1.11E-08

9719	-0.21	6.48E-06	12852	0.12	9.72E-03
9722	-0.19	9.38E-04	12864	-0.27	6.43E-03
9723	0.38	4.46E-07	12865	0.43	6.63E-07
9725	-0.13	8.45E-03	12876	-0.25	6.50E-05
9730	-0.39	3.21E-09	12881	0.19	6.02E-05
9732	-0.35	1.12E-04	12882	-0.29	1.46E-04
9733	0.25	5.14E-08	12885	0.31	1.12E-10
9734	0.21	2.57E-03	12887	0.28	2.28E-07
9736	-0.16	1.35E-03	12888	-0.33	3.35E-08
9738	-0.18	2.29E-03	12889	0.34	2.74E-13
9746	0.50	5.41E-13	12894	-0.27	2.04E-03
9747	-0.50	1.16E-06	12902	-0.33	6.27E-09
9749	0.20	1.22E-05	12905	-0.45	8.06E-15
9750	0.22	4.28E-05	12907	0.19	3.33E-04
9757	-0.65	2.97E-05	12909	-0.14	5.66E-03
9761	0.12	8.94E-03	12927	-0.51	2.44E-24
9763	0.29	2.33E-07	12929	-0.21	8.91E-05
9766	0.50	7.07E-08	12933	-0.26	1.93E-03
9767	-0.69	5.13E-08	12935	0.15	1.48E-03
9769	0.30	2.14E-04	12938	-0.39	1.19E-04
9771	-0.31	4.49E-09	12940	0.26	8.64E-08
9774	-0.23	1.34E-05	12941	-0.39	1.82E-04
9780	-0.24	7.23E-04	12948	-0.39	1.42E-06
9781	-0.19	3.87E-04	12952	0.24	4.25E-07
9782	-0.33	1.49E-11	12958	-0.15	5.76E-03
9788	0.27	1.99E-03	12962	0.21	3.37E-03
9789	0.28	7.62E-06	12969	0.09	8.42E-03
9796	-0.49	1.32E-03	12977	0.45	5.02E-12
9809	0.25	2.79E-06	12979	-0.29	5.20E-08
9810	0.20	1.94E-05	12980	-0.28	1.71E-04
9815	0.21	1.45E-05	12987	0.17	2.87E-04
9817	0.13	4.16E-04	12993	0.37	4.61E-16
9818	0.14	1.11E-04	12994	-0.41	6.85E-15
9819	-0.17	1.02E-03	12995	0.14	8.15E-03
9822	-0.23	7.82E-05	12996	0.21	1.45E-05
9825	-0.19	7.15E-04	12998	0.16	1.06E-03
9833	-0.33	1.45E-03	13000	-0.38	1.33E-16
9835	0.24	4.27E-05	13002	-0.19	4.43E-04
9837	-0.24	6.18E-03	13003	-0.29	2.39E-05

9838	-0.21	2.05E-05	13006	0.16	5.88E-03
9844	0.25	7.73E-05	13009	-0.29	4.37E-08
9851	-0.70	1.39E-10	13010	0.16	8.26E-04
9858	-0.38	2.25E-15	13011	0.13	4.92E-03
9859	-0.53	1.02E-22	13018	-0.27	8.68E-06
9860	-0.23	4.39E-04	13020	0.19	4.20E-05
9863	-0.26	1.24E-04	13022	-0.13	6.21E-03
9866	-0.18	2.90E-04	13025	0.24	8.65E-05
9867	-0.49	1.95E-19	13029	0.16	2.09E-03
9868	-0.34	2.04E-07	13031	-0.50	5.19E-05
9869	-0.29	3.90E-05	13040	-0.31	3.47E-04
9870	0.14	6.44E-03	13043	0.23	5.46E-07
9874	-0.36	1.73E-12	13051	0.38	5.12E-16
9876	0.24	3.49E-07	13055	0.19	1.92E-04
9889	0.17	9.48E-03	13063	-0.21	2.79E-03
9891	0.29	4.72E-09	13065	-0.34	5.09E-10
9899	0.23	1.32E-06	13070	-0.48	1.24E-03
9900	-0.37	9.56E-04	13075	0.23	7.11E-07
9905	0.30	7.78E-04	13080	0.19	2.01E-04
9908	0.24	4.54E-07	13083	-0.15	5.85E-03
9913	-0.29	1.06E-08	13085	-0.31	2.88E-03
9917	-0.38	1.23E-10	13086	-0.33	8.27E-03
9919	0.25	1.83E-07	13089	-0.29	2.43E-05
9922	-0.28	5.75E-07	13105	0.21	5.00E-04
9924	0.12	9.41E-03	13108	0.17	4.81E-04
9927	0.37	2.44E-09	13111	0.28	8.37E-09
9928	0.33	1.83E-07	13122	-0.20	2.93E-03
9929	0.24	3.99E-03	13123	-0.29	3.43E-04
9932	-0.20	3.72E-03	13124	-0.13	4.51E-04
9936	0.16	8.75E-05	13126	-0.25	6.79E-07
9945	-0.25	2.89E-07	13128	-0.32	1.92E-04
9946	0.43	7.67E-19	13132	0.14	1.94E-03
9951	-0.21	2.48E-03	13139	0.42	2.59E-15
9952	0.32	1.40E-09	13142	-0.52	3.02E-07
9956	0.19	3.14E-03	13143	0.50	6.02E-22
9957	-0.38	9.84E-10	13149	0.46	5.86E-17
9959	0.44	1.75E-21	13151	-0.46	1.15E-08
9961	0.27	1.12E-08	13153	-0.22	1.81E-05
9964	0.41	9.02E-13	13161	-0.36	4.50E-14
9975	-0.14	2.67E-04	13171	0.20	3.58E-03

9981	-0.14	2.76E-03	13173	0.17	7.71E-04
9982	-0.28	8.99E-09	13178	0.14	2.74E-03
9987	-0.22	1.58E-05	13184	-0.31	1.59E-06
9993	-0.13	1.79E-04	13191	-0.18	6.50E-03
9995	0.54	1.99E-31	13194	0.23	5.67E-06
10003	-0.30	3.45E-09	13200	0.25	2.86E-05
10006	-0.21	1.66E-05	13205	0.13	8.02E-03
10011	-0.37	2.41E-12	13210	0.13	3.08E-03
10015	-0.21	1.04E-06	13211	-0.47	1.21E-05
10019	0.13	8.73E-03	13214	0.26	1.05E-07
10021	-0.19	8.88E-04	13230	-0.22	5.29E-06
10026	-0.19	3.92E-04	13236	-0.47	2.46E-03
10033	0.15	4.70E-04	13238	-0.22	2.61E-06
10035	0.40	2.16E-13	13254	0.23	4.31E-06
10036	-0.29	4.31E-08	13255	-0.14	7.61E-03
10039	-0.19	3.28E-04	13258	-0.35	6.99E-04
10041	0.27	1.95E-03	13264	-0.22	1.26E-06
10043	-0.49	1.32E-03	13276	0.25	1.25E-07
10044	0.18	1.98E-04	13279	-0.48	4.49E-05
10046	-0.15	4.15E-03	13292	0.20	6.00E-03
10053	-0.34	1.80E-04	13302	0.18	9.91E-05
10054	0.14	4.07E-03	13305	-0.52	6.45E-11
10061	0.29	8.50E-05	13306	-0.43	4.03E-04
10062	-0.40	1.68E-15	13308	-0.39	1.84E-04
10066	-0.28	7.09E-09	13310	0.37	1.26E-13
10067	0.11	1.37E-03	13312	-0.20	1.15E-04
10069	-0.20	1.59E-05	13315	-0.72	3.36E-04
10074	-0.23	4.29E-03	13326	0.24	2.22E-03
10076	-0.23	2.41E-06	13328	0.37	1.74E-10
10077	-0.26	1.79E-12	13332	-0.22	5.63E-03
10079	0.36	6.31E-08	13336	-0.15	6.73E-03
10080	-0.30	1.20E-06	13349	0.15	4.33E-03
10082	-0.20	1.01E-04	13352	-0.19	1.33E-03
10084	0.42	1.10E-11	13355	-0.22	6.74E-06
10087	-0.19	1.59E-04	13365	-0.49	1.67E-04
10092	-0.55	1.45E-25	13367	0.25	1.86E-08
10095	0.21	4.44E-09	13368	-0.47	4.29E-05
10102	0.29	7.61E-08	13372	-0.16	1.65E-03
10103	-0.26	6.61E-08	13378	-0.65	4.04E-09

10104	-0.18	5.01E-04	13381	-0.28	3.17E-03
10107	-0.26	3.33E-06	13382	0.34	1.45E-06
10110	0.16	1.77E-03	13383	0.24	1.01E-04
10114	0.33	6.37E-07	13396	-0.17	3.12E-04
10115	-0.19	4.47E-04	13404	-0.47	4.09E-04
10117	-0.20	9.07E-05	13406	-0.19	1.86E-04
10119	-0.24	1.42E-06	13407	0.14	4.83E-03
10123	0.09	5.26E-03	13434	0.22	5.27E-06
10124	-0.23	1.67E-06	13441	0.34	6.29E-12
10129	0.16	4.16E-04	13457	-0.28	3.04E-06
10132	0.36	1.39E-09	13466	-0.30	4.55E-10
10134	-0.35	9.51E-03	13472	-0.42	1.87E-04
10138	-0.42	9.76E-04	13475	-0.18	4.51E-04
10139	-0.39	4.38E-16	13485	0.50	1.37E-13
10140	0.33	3.04E-07	13491	-0.70	3.56E-04
10148	-0.26	2.14E-07	13496	-0.18	8.21E-04
10157	-0.43	3.20E-19	13501	-0.20	1.84E-05
10160	0.36	9.15E-16	13512	0.13	7.47E-03
10161	-0.36	1.06E-06	13517	-0.25	1.11E-04
10162	-0.51	2.01E-21	13519	0.39	1.75E-07
10176	0.20	5.37E-05	13523	0.25	4.70E-05
10177	0.39	1.33E-15	13526	0.18	1.29E-04
10182	0.16	4.81E-03	13527	-0.51	2.21E-27
10183	-0.47	1.66E-03	13529	0.29	3.22E-06
10187	-0.12	8.05E-03	13538	-0.33	2.25E-09
10193	-0.18	2.44E-03	13540	-0.63	3.10E-05
10194	-0.26	8.89E-07	13552	0.18	2.50E-04
10196	-0.53	6.84E-05	13561	-0.23	1.18E-03
10198	0.31	2.43E-10	13565	-0.27	2.67E-07
10199	0.45	1.32E-23	13578	0.43	7.74E-20
10200	0.44	5.90E-20	13584	-0.15	4.16E-03
10204	0.20	1.80E-04	13592	-0.47	3.30E-04
10206	0.20	1.51E-04	13608	0.41	5.32E-18
10210	0.20	1.45E-03	13609	0.23	1.81E-06
10212	-0.32	1.93E-05	13615	0.26	2.20E-04
10225	0.29	1.68E-03	13618	0.17	6.07E-04
10245	0.15	3.03E-03	13626	-0.45	1.86E-03
10248	0.15	6.22E-03	13629	0.33	2.90E-13
10254	-0.20	8.41E-03	13631	-0.23	2.71E-04
10258	-0.29	8.17E-05	13635	-0.24	5.77E-07

10265	-0.31	4.36E-04	13637	-0.37	8.77E-12
10266	0.16	1.68E-03	13654	-0.20	8.63E-04
10269	-0.27	3.67E-03	13656	-0.17	1.47E-05
10271	-0.12	3.04E-04	13663	-0.22	5.91E-05
10274	-0.33	4.59E-06	13668	0.48	3.60E-12
10276	-0.48	1.87E-04	13689	-0.55	1.35E-07
10280	0.21	3.92E-05	13700	-0.21	1.22E-04
10283	-0.24	4.77E-05	13702	-0.26	1.03E-05
10286	-0.32	2.47E-08	13706	0.22	9.91E-04
10288	0.33	3.06E-07	13707	-0.79	1.18E-12
10290	0.15	4.03E-03	13710	0.14	1.68E-03
10291	-0.41	8.50E-16	13711	0.23	5.46E-03
10292	-0.26	2.56E-03	13713	-0.19	2.45E-04
10299	0.33	7.35E-10	13716	-0.13	5.57E-03
10300	-0.25	6.50E-05	13727	-0.29	1.66E-06
10301	0.15	5.68E-03	13741	-0.20	1.65E-04
10302	0.28	1.88E-09	13743	-0.24	4.23E-03
10304	-0.31	2.81E-08	13763	-0.41	2.06E-04
10305	-0.28	4.35E-09	13767	-0.16	4.54E-04
10314	0.26	4.01E-04	13772	0.18	1.21E-04
10315	-0.20	2.71E-03	13783	-0.20	8.48E-05
10317	-0.16	8.02E-03	13784	-0.23	8.85E-03
10324	-0.16	8.17E-04	13791	0.27	1.11E-08
10327	-0.20	1.46E-03	13793	-0.35	3.07E-09
10331	0.20	1.96E-04	13795	0.38	2.38E-14
10333	0.24	3.31E-07	13812	-0.25	1.64E-06
10337	0.19	8.19E-03	13813	-0.21	9.93E-06
10341	-0.44	6.87E-13	13814	-0.44	3.55E-07
10342	0.20	1.27E-03	13827	0.20	6.57E-05
10343	0.21	3.53E-05	13832	0.16	1.47E-03
10346	-0.42	1.60E-03	13839	-0.31	1.04E-07
10347	-0.12	8.20E-03	13843	-0.23	2.62E-03
10353	0.40	3.85E-08	13852	0.25	9.66E-08
10357	0.16	8.19E-03	13857	0.20	3.18E-05
10358	-0.35	5.62E-07	13869	-0.23	6.56E-04
10362	-0.22	3.33E-04	13878	-0.35	1.53E-10
10363	0.29	3.12E-09	13885	0.20	3.91E-04
10367	0.21	1.28E-05	13891	-0.33	5.67E-06
10368	0.17	5.47E-03	13898	0.47	3.20E-17

10370	0.30	3.20E-11	13899	-0.23	2.04E-04
10371	-0.16	1.50E-03	13906	-0.39	8.32E-10
10372	-0.11	2.24E-03	13916	-0.29	6.67E-04
10373	-0.15	4.07E-03	13917	-0.27	3.79E-07
10374	-0.38	6.21E-15	13923	-0.25	4.49E-04
10375	-0.23	5.19E-05	13926	-0.39	1.74E-04
10378	-0.15	8.11E-03	13927	0.45	2.25E-13
10379	-0.15	6.75E-03	13929	-0.24	2.05E-05
10383	-0.32	2.86E-04	13934	-0.31	1.69E-09
10386	-0.26	7.54E-08	13935	0.19	1.95E-04
10387	-0.19	8.05E-05	13939	-0.20	1.76E-04
10393	-0.18	3.54E-03	13949	-0.42	3.45E-09
10396	-0.35	6.30E-07	13954	-0.24	7.76E-03
10399	0.27	5.24E-08	13967	-0.45	3.07E-03
10400	-0.26	2.38E-03	13971	0.30	7.71E-07
10402	-0.18	2.05E-04	13980	-0.25	5.13E-03
10404	-0.16	8.16E-04	13984	-0.46	3.08E-20
10408	-0.15	5.71E-03	13989	-0.16	1.14E-03
10409	0.22	4.99E-06	13994	0.22	1.86E-05
10421	0.23	2.38E-03	13997	0.26	1.97E-04
10422	0.32	1.62E-05	13998	0.50	7.43E-20
10423	0.31	5.53E-09	14010	-0.19	4.52E-05
10427	-0.36	1.58E-05	14014	-0.17	1.63E-04
10436	-0.47	5.28E-05	14016	0.15	3.63E-03
10438	0.42	3.80E-21	14019	0.17	1.20E-04
10439	0.20	1.81E-04	14031	-0.20	5.55E-05
10441	0.21	2.14E-05	14038	-0.19	2.20E-04
10444	-0.63	3.92E-23	14049	0.18	1.35E-04
10446	-0.24	6.94E-03	14050	0.22	1.57E-05
10448	-0.15	3.70E-03	14052	-0.20	1.43E-04
10453	-0.44	8.51E-04	14057	-0.22	2.78E-06
10454	0.39	9.43E-18	14071	-0.16	9.71E-04
10456	-0.37	1.72E-07	14079	0.48	1.45E-24
10457	0.17	3.94E-07	14081	-0.42	5.63E-09
10461	-0.31	1.83E-05	14083	-0.29	5.25E-04
10462	0.28	7.38E-09	14086	-0.14	3.49E-03
10464	0.21	1.21E-03	14088	0.17	4.80E-04
10474	-0.25	2.09E-05	14089	0.20	6.58E-05
10478	0.29	1.60E-04	14090	-0.28	1.54E-03

10480	-0.34	1.89E-08	14106	0.22	2.76E-07
10481	0.20	5.70E-05	14113	0.35	4.04E-11
10483	0.39	8.54E-06	14124	-0.18	4.99E-03
10487	-0.41	1.74E-11	14131	-0.23	1.26E-06
10490	-0.29	8.59E-09	14136	-0.17	2.03E-03
10491	0.20	8.94E-03	14144	0.13	5.40E-03
10492	0.31	4.89E-09	14153	-0.36	2.09E-07
10494	0.34	9.11E-18	14164	-0.20	1.62E-04
10495	-0.23	4.68E-05	14170	0.27	9.71E-09
10498	-0.25	8.11E-04	14178	-0.11	3.93E-03
10503	0.14	4.60E-03	14182	0.23	1.21E-05
10507	-0.28	9.20E-07	14187	-0.44	5.25E-04
10509	-0.22	1.99E-04	14189	0.38	3.52E-07
10515	-0.58	2.73E-09	14191	-0.28	9.94E-06
10520	-0.80	3.75E-13	14194	-0.52	2.15E-07
10538	0.27	2.94E-06	14195	-0.38	6.04E-09
10539	0.33	4.68E-12	14197	-0.45	1.98E-06
10542	0.09	8.57E-03	14198	0.16	4.62E-03
10543	-0.40	1.97E-07	14206	0.41	6.50E-09
10548	0.24	3.30E-07	14213	0.22	1.27E-05
10550	-0.22	1.59E-05	14222	-0.50	2.90E-07
10551	-0.41	2.75E-03	14227	-0.17	7.25E-04
10552	-0.13	7.06E-03	14237	-0.54	8.62E-15
10555	0.29	4.05E-05	14244	-0.34	1.53E-13
10561	-0.20	3.62E-03	14246	-0.27	2.45E-08
10563	-0.27	2.69E-03	14253	0.20	6.93E-03
10569	0.27	2.80E-08	14259	-0.26	3.19E-03
10570	-0.30	3.06E-08	14265	-0.23	1.34E-05
10576	-0.28	4.88E-09	14269	0.17	8.44E-03
10578	-0.22	3.38E-05	14273	-0.32	1.96E-08
10582	0.12	4.39E-04	14281	0.18	6.66E-03
10584	-0.29	5.61E-10	14284	-0.37	4.94E-05
10586	-0.26	6.31E-03	14290	-0.24	6.07E-03
10588	0.15	1.54E-03	14296	-0.42	1.66E-17
10590	-0.24	2.34E-06	14298	0.26	1.36E-04
10599	-0.22	1.43E-03	14301	0.30	4.89E-13
10601	-0.23	2.25E-05	14306	0.33	2.53E-11
10604	-0.48	2.31E-12	14307	0.40	1.73E-17
10605	-0.17	4.51E-03	14309	0.26	2.52E-08
10608	-0.42	1.48E-15	14310	-0.19	2.30E-04

10612	-0.25	1.33E-03	14311	-0.23	2.35E-06
10622	-0.46	5.70E-05	14313	0.23	2.49E-06
10624	-0.16	7.25E-03	14315	-0.11	2.51E-03
10625	0.30	4.52E-10	14316	-0.13	9.22E-03
10633	-0.38	3.00E-11	14330	-0.28	2.12E-09
10634	0.22	1.26E-04	14333	0.20	3.37E-05
10648	0.28	5.44E-03	14334	-0.15	4.60E-03
10649	0.28	3.30E-09	14342	0.19	2.66E-03
10653	0.16	1.13E-03	14355	-0.17	9.56E-03
10655	-0.32	1.71E-10	14365	0.18	1.98E-04
10666	-0.22	1.55E-03	14369	0.18	9.99E-03
10668	-0.51	1.84E-08	14377	0.28	9.90E-10
10674	-0.34	9.09E-12	14379	-0.65	5.90E-09
10677	0.46	4.38E-17	14380	0.22	7.05E-06
10678	-0.42	1.09E-04	14381	-0.49	7.92E-13
10686	0.18	8.63E-03	14389	-0.26	2.17E-07
10687	0.19	4.27E-04	14390	0.43	5.26E-13
10688	-0.39	8.12E-15	14391	-0.25	8.30E-07
10696	-0.19	8.41E-04	14392	0.24	3.27E-05
10711	-0.15	2.77E-03	14399	0.13	8.56E-03
10717	-0.30	8.33E-08	14405	0.21	1.45E-03
10722	0.31	2.17E-07	14406	-0.34	1.26E-05
10728	0.23	5.59E-03	14411	-0.23	3.22E-06
10733	0.20	1.35E-03	14414	0.16	1.13E-06
10734	0.17	2.06E-04	14424	-0.34	2.16E-05
10738	-0.31	6.63E-06	14426	-0.21	1.22E-04
10748	0.20	8.90E-05	14430	0.15	1.10E-03
10758	-0.49	4.38E-08	14441	0.15	1.05E-03
10763	-0.65	2.88E-09	14448	-0.30	1.37E-06
10769	-0.23	3.58E-05	14450	0.18	8.93E-04
10775	-0.20	4.08E-05	14451	0.16	5.78E-03
10778	0.39	2.17E-18	14454	0.38	4.21E-07
10785	0.19	6.11E-03	14460	0.21	2.35E-05
10791	-0.18	3.81E-04	14463	0.23	5.69E-06
10798	0.24	3.90E-07	14469	-0.26	7.04E-07
10801	-0.16	1.94E-03	14474	-0.23	3.11E-04
10802	0.24	1.78E-04	14476	0.42	1.61E-11
10807	-0.25	1.75E-06	14478	-0.19	7.07E-04
10811	-0.42	1.91E-04	14479	-0.35	1.85E-10

10813	0.24	8.43E-06	14484	0.31	2.42E-11
10818	-0.27	1.29E-07	14498	-0.34	1.82E-06
10828	-0.20	5.09E-05	14502	-0.30	4.00E-03
10837	0.30	1.67E-11	14504	-0.39	3.57E-06
10838	0.38	3.26E-15	14507	0.25	3.81E-08
10839	-0.31	7.07E-04	14509	0.18	4.87E-04
10854	-0.20	7.07E-03	14515	-0.16	1.53E-03
10865	0.16	1.49E-03	14523	0.35	7.19E-13
10866	0.21	1.99E-04	14524	-0.47	1.80E-11
10872	-0.46	1.67E-13	14525	-0.35	1.65E-03
10875	-0.26	3.32E-05	14533	-0.18	1.46E-03
10878	0.16	7.44E-04	14535	-0.22	2.00E-05
10888	-0.54	5.96E-16	14539	-0.22	2.22E-03
10889	-0.13	6.53E-03	14555	0.29	1.79E-09
10891	-0.21	1.23E-03	14560	-0.31	3.78E-06
10895	-0.16	4.38E-03	14575	-0.28	1.72E-03
10897	0.37	2.34E-04	14582	0.29	1.87E-09
10898	0.31	8.21E-03	14586	-0.17	6.79E-03
10902	0.20	8.93E-05	14602	-0.11	5.52E-03
10906	-0.17	1.17E-03	14603	0.26	6.37E-08
10908	0.19	5.58E-04	14612	-0.43	3.00E-19
10911	-0.16	7.02E-04	14616	-0.23	2.82E-03
10913	-0.19	5.62E-05	14623	0.22	2.76E-05
10917	-0.31	1.02E-05	14625	-0.20	9.43E-05
10923	-0.42	2.28E-08	14626	-0.22	7.55E-06
10924	0.23	3.73E-06	14628	-0.30	4.45E-12
10926	-0.59	3.02E-08	14629	0.18	7.84E-03
10934	-0.24	1.37E-04	14631	-0.22	2.51E-06
10940	-0.15	1.78E-03	14649	0.18	2.04E-04
10943	-0.37	1.44E-05	14651	0.16	7.13E-04
10947	-0.31	2.37E-03	14654	0.23	7.17E-06
10948	-0.22	3.88E-05	14658	0.23	1.21E-08
10950	0.19	8.75E-05	14659	0.14	2.45E-03
10952	0.25	4.50E-07	14661	-0.24	6.02E-06
10962	0.23	3.99E-05	14668	-0.38	1.23E-07
10965	0.25	1.89E-07	14677	0.15	8.16E-03
10973	-0.33	7.26E-03	14694	-0.28	1.09E-03
10974	-0.19	1.81E-03	14695	-0.42	9.61E-14
10977	-0.32	4.56E-08	14696	0.26	6.45E-04

10980	0.40	2.11E-19	14697	-0.33	1.15E-09
10985	-0.32	1.24E-10	14698	-0.33	1.87E-09
10987	-0.39	9.37E-07	14699	0.24	7.73E-08
10991	0.20	1.81E-04	14700	-0.39	6.51E-18
10992	-0.25	3.62E-06	14705	-0.23	4.57E-04
10995	-0.30	2.24E-06	14716	0.17	8.38E-04
11000	-0.27	7.07E-04	14722	0.17	3.27E-04
11003	-0.31	3.80E-03	14727	0.21	1.83E-05
11012	-0.24	5.98E-06	14734	-0.47	4.38E-15
11013	-0.20	1.30E-04	14738	-0.47	9.24E-06
11015	0.30	4.46E-04	14739	0.37	2.08E-15
11027	-0.22	9.78E-03	14767	0.23	5.11E-04
11029	0.31	2.92E-09	14773	-0.42	1.22E-12
11036	-0.26	1.18E-04	14777	-0.19	4.09E-04
11048	-0.50	3.47E-07	14778	0.21	2.18E-05
11060	0.19	9.30E-04	14780	-0.22	1.80E-03
11062	0.13	4.12E-03	14781	-0.64	1.18E-08
11075	0.19	6.88E-03	14783	0.34	3.01E-12
11086	-0.24	6.46E-04	14788	-0.13	4.33E-03
11088	0.42	1.57E-19	14790	-0.42	3.53E-05
11090	0.26	3.45E-05	14791	0.28	1.03E-07
11092	0.17	1.10E-03	14797	0.17	4.82E-04
11096	0.54	5.50E-12	14801	-0.16	3.18E-03
11097	-0.15	4.22E-03	14806	-0.49	4.54E-08
11101	0.21	1.87E-05	14807	-0.17	8.02E-03
11102	0.37	5.19E-16	14808	0.22	1.96E-06
11108	-0.16	9.65E-04	14817	-0.42	2.20E-08
11110	-0.25	1.61E-03	14828	0.19	8.31E-05
11117	0.21	6.14E-03	14839	-0.26	4.43E-07
11127	-0.27	4.94E-07	14872	-0.46	3.94E-04
11130	-0.25	6.38E-05	14873	-0.19	2.00E-04
11139	-0.17	7.54E-04	14884	-0.17	4.56E-04
11149	0.23	1.25E-06	14886	0.38	7.00E-16
11151	0.41	7.27E-09	14899	0.25	8.34E-06
11153	-0.28	2.07E-08	14904	0.32	8.85E-12
11157	-0.20	4.53E-04	14915	0.37	4.96E-15
11159	0.32	3.20E-12	14925	0.26	2.43E-08
11166	-0.26	1.01E-07	14937	0.42	6.21E-22
11172	-0.44	1.04E-18	14938	0.35	9.96E-05
11173	0.35	1.59E-14	14944	-0.51	4.22E-05

11174	0.23	6.69E-06	14953	-0.14	5.01E-03
11177	0.28	1.55E-03	14966	-0.37	5.13E-14
11181	-0.57	1.04E-10	14972	0.37	5.87E-16
11182	0.15	1.69E-03	14973	0.41	2.87E-13
11184	0.35	2.20E-13	14974	-0.42	2.71E-12
11188	0.21	2.28E-05	14975	0.19	2.20E-04
11191	-0.15	1.79E-03	14989	-0.35	1.18E-03
11196	0.37	1.62E-15	14996	-0.18	3.56E-04
11201	-0.31	6.62E-05	14999	-0.41	3.20E-03
11202	-0.19	8.25E-05	15003	-0.28	1.08E-07
11204	-0.26	9.37E-04	15008	-0.35	1.36E-06
11206	-0.22	4.45E-05	15012	-1.12	1.70E-08
11210	0.42	8.48E-07	15017	-0.38	2.03E-04
11217	-0.23	1.60E-03	15026	-0.18	2.34E-04
11219	-0.17	1.20E-03	15030	-0.37	4.43E-03
11224	0.17	1.04E-03	15042	-0.43	6.24E-08
11228	-0.42	2.67E-03	15047	-0.36	3.98E-09
11236	-0.29	6.75E-05	15050	-0.26	6.80E-05
11244	0.35	3.39E-14	15053	-0.20	6.21E-03
11251	0.19	7.12E-05	15060	-0.34	1.92E-10
11254	-0.23	6.95E-10	15062	-0.60	1.03E-04
11280	0.27	1.01E-03	15084	-0.48	2.34E-03
11284	-0.26	1.58E-06	15086	-0.30	1.41E-08
11290	-0.26	1.65E-06	15092	0.17	3.55E-04
11291	-0.17	7.83E-03	15103	-0.19	4.28E-03
11292	0.40	3.66E-11	15104	0.25	4.47E-07
11294	-0.25	2.10E-04	15113	-0.36	1.03E-06
11302	0.39	3.48E-10	15115	-0.31	1.89E-08
11305	0.16	3.38E-03	15128	0.32	9.74E-12
11306	-0.33	7.35E-13	15131	-0.27	1.42E-08
11310	0.14	2.41E-03	15133	-0.34	8.24E-03
11311	-0.32	6.08E-09	15149	0.23	5.38E-03
11312	0.22	2.83E-05	15150	0.23	3.95E-04
11314	-0.26	1.63E-07	15162	-0.13	7.98E-03
11316	-0.30	8.37E-08	15164	0.20	1.35E-05
11321	-0.34	5.83E-10	15168	-0.29	1.45E-08
11322	-0.23	4.06E-03	15172	0.20	3.47E-05
11323	-0.42	3.94E-09	15182	0.23	7.85E-06
11337	0.26	6.56E-08	15184	-0.34	2.14E-10

11340	0.27	1.06E-08	15187	-0.64	1.22E-08
11343	0.34	8.96E-13	15188	-0.25	7.14E-05
11344	0.30	2.11E-09	15204	-0.21	8.52E-05
11348	-0.38	7.72E-06	15206	0.17	1.63E-04
11355	-0.38	1.56E-07	15209	-0.20	7.24E-05
11359	-0.24	1.33E-06	15211	-0.37	1.14E-09
11360	0.22	4.53E-06	15236	-0.24	5.99E-03
11362	-0.59	9.55E-07	15238	-0.23	2.25E-05
11374	-0.14	4.07E-03	15239	0.42	2.08E-14
11375	-0.22	2.98E-04	15241	0.18	3.45E-04
11382	-0.33	7.78E-11	15243	-0.40	1.88E-07
11383	0.14	5.93E-03	15244	-0.56	9.12E-10
11384	-0.31	9.68E-10	15252	0.41	3.38E-13
11386	-0.48	3.84E-08	15260	-0.49	3.47E-18
11390	-0.30	1.14E-07	15281	-0.16	7.91E-04
11396	0.30	2.65E-09	15291	0.29	7.99E-08
11400	0.19	8.33E-04	15293	-0.20	1.57E-04
11408	-0.36	1.42E-09	15302	0.18	5.84E-03
11410	-0.14	2.76E-03	15309	0.25	1.05E-07
11415	-0.61	2.31E-06	15320	-0.55	1.68E-07
11417	0.16	2.57E-03	15327	-0.29	5.14E-04
11421	-0.43	6.05E-03	15331	-0.31	3.13E-07
11422	-0.18	5.18E-03	15333	0.28	4.14E-08
11425	-0.21	5.12E-05	15339	-0.30	5.29E-04
11431	-0.19	1.69E-04	15340	-0.16	1.02E-03
11439	0.19	7.94E-03	15348	-0.12	6.79E-03
11440	-0.25	3.88E-03	15351	0.29	8.29E-08
11443	-0.18	1.69E-03	15368	-0.31	4.01E-08
11444	0.31	1.52E-07	15374	-0.20	8.27E-03
11446	0.25	1.39E-05	791	-0.50	5.00E-02
11447	-0.30	8.48E-05	1300	-0.08	5.00E-02
11462	0.26	1.80E-05	1324	-0.44	5.00E-02
11468	-0.47	9.80E-05	1852	0.10	5.00E-02
11471	0.39	8.33E-17	2168	0.09	5.00E-02
11475	0.17	4.82E-04	2258	-0.29	5.00E-02
11480	-0.23	1.24E-05	2708	-0.06	5.00E-02
11485	-0.36	6.96E-07	2865	-0.07	5.00E-02
11489	0.33	1.19E-04	3038	-0.08	5.00E-02
11492	-0.29	6.30E-09	3157	-1.31	5.00E-02
11496	-0.21	7.22E-05	3262	-0.07	5.00E-02

11497	0.51	1.28E-20	3512	-0.75	5.00E-02
11499	0.20	5.01E-05	3769	0.06	5.00E-02
11502	-0.22	2.90E-03	3820	0.18	5.00E-02
11503	-0.22	2.43E-03	4114	-0.22	5.00E-02
11510	0.14	5.51E-03	4143	-0.08	5.00E-02
11520	-0.34	7.96E-04	4323	0.11	5.00E-02
11536	-0.17	1.36E-03	4513	0.09	5.00E-02
11547	0.24	1.14E-06	4540	-0.04	5.00E-02
11549	-0.38	1.72E-07	4798	0.07	5.00E-02
11551	-0.24	5.72E-06	4823	0.21	5.00E-02
11553	0.23	1.36E-07	5087	0.05	5.00E-02
11555	-0.33	1.31E-09	5282	-0.08	5.00E-02
11556	0.37	2.08E-10	5488	0.14	5.00E-02
11569	0.20	6.93E-05	5655	-0.29	5.00E-02
11574	-0.37	1.12E-04	5919	-0.14	5.00E-02
11582	0.13	1.93E-03	6122	-0.20	5.00E-02
11589	0.27	1.46E-06	6178	-0.24	5.00E-02
11594	0.32	5.65E-11	6670	0.07	5.00E-02
11595	-0.14	9.80E-03	6705	0.11	5.00E-02
11600	-0.18	1.80E-04	7153	-0.18	5.00E-02
11601	-0.19	7.05E-05	7171	0.05	5.00E-02
11602	0.33	4.49E-08	7254	0.09	5.00E-02
11603	0.23	1.17E-05	7405	-0.08	5.00E-02
11605	-0.46	1.75E-18	8266	0.23	5.00E-02
11613	0.14	3.60E-03	8440	0.06	5.00E-02
11618	0.46	5.27E-17	8510	-0.11	5.00E-02
11619	0.20	1.93E-05	8878	-0.06	5.00E-02
11628	-0.25	2.58E-06	9048	-0.06	5.00E-02
11631	0.16	1.05E-03	9088	-0.05	5.00E-02
11636	0.23	2.75E-06	9374	0.09	5.00E-02
11639	-0.26	1.77E-05	9377	0.07	5.00E-02
11641	0.24	3.51E-05	9727	0.07	5.00E-02
11647	-0.73	1.32E-09	10099	-0.20	5.00E-02
11649	-0.30	3.69E-10	10499	0.05	5.00E-02
11652	-0.47	3.27E-07	11750	0.05	5.00E-02
11656	-0.32	1.24E-04	11835	0.08	5.00E-02
11659	-0.32	1.12E-11	11957	0.68	5.00E-02
11680	-0.22	2.56E-06	12069	0.06	5.00E-02
11684	0.31	3.17E-07	12125	0.09	5.00E-02

11685	-0.15	3.92E-03	12255	-0.16	5.00E-02
11692	-0.58	4.03E-07	12434	-0.06	5.00E-02
11693	-0.16	8.01E-03	12455	0.56	5.00E-02
11701	-0.35	9.11E-10	12741	0.54	5.00E-02
11704	0.29	2.14E-05	12890	-0.07	5.00E-02
11714	-0.17	3.89E-03	13012	0.10	5.00E-02
11717	-0.19	4.71E-05	13092	-0.43	5.00E-02
11719	-0.37	6.53E-09	13520	0.82	5.00E-02
11722	-0.32	1.12E-11	13556	0.35	5.00E-02
11726	0.30	9.46E-11	13699	-0.10	5.00E-02
11728	-0.35	4.62E-06	13703	0.54	5.00E-02
11742	0.30	3.81E-04	13751	0.06	5.00E-02
11748	-0.22	1.34E-03	13948	0.19	5.00E-02
11754	-0.25	1.78E-05	14022	0.24	5.00E-02
11756	0.36	9.83E-15	14063	-0.31	5.00E-02
11757	-0.28	8.29E-06	14177	0.67	5.00E-02
11758	-0.30	7.31E-05	14233	-0.21	5.00E-02
11771	0.16	7.09E-04	14501	0.34	5.00E-02
11776	-0.14	3.18E-03	14538	-0.39	5.00E-02
11788	-0.35	2.09E-05	14569	-0.85	5.00E-02
11803	-0.30	2.06E-06	14675	0.07	5.00E-02
11809	-0.24	5.75E-05	14683	0.05	5.00E-02
11818	-0.39	5.11E-07	14847	0.48	5.00E-02
11825	0.31	1.96E-10	14855	0.14	5.00E-02
11833	-0.28	1.40E-04	15010	0.26	5.00E-02
11847	0.24	1.21E-06	15024	-0.20	5.00E-02
11856	0.15	1.71E-03	15085	-0.08	5.00E-02
11863	-0.13	6.44E-03	15140	0.52	5.00E-02
11866	-0.19	2.33E-04	15176	0.14	5.00E-02
11874	0.29	1.31E-03	15316	-0.87	5.00E-02
11879	-0.14	5.42E-03	2360	-0.20	1.23E-03
11887	-0.19	2.30E-04	2362	-0.40	1.06E-08
11888	-0.45	3.19E-07	2371	-0.30	8.55E-04
11890	-0.31	1.22E-11	2373	-0.50	7.63E-08
7006	0.20	8.25E-03	4732	0.10	1.58E-03
7011	-0.30	1.37E-06	4746	0.30	3.53E-09
7012	-0.30	1.20E-06	4752	-0.10	7.02E-03
7020	-0.20	5.21E-05	4753	-0.20	2.62E-06
7021	0.30	2.64E-04	4756	0.20	2.15E-08

7023	-0.20	3.33E-04	4758	-0.40	7.60E-11
7027	-0.40	1.67E-05	4760	-0.50	4.56E-13
7028	0.40	1.02E-08	6996	0.40	3.54E-19
7035	-0.10	3.59E-03	6998	-0.50	3.87E-10
7036	-0.10	4.00E-03	6999	-0.40	3.04E-17
7044	-0.30	2.62E-06	7004	0.10	6.02E-03
9250	-0.29	3.27E-03	4582	0.30	3.13E-11
9255	-0.32	9.55E-05	4583	0.50	1.90E-22
9248	0.38	8.07E-15	4584	0.20	1.21E-05
9228	0.26	4.06E-08	4585	-0.40	3.64E-04
4602	0.60	2.00E-35	4586	-0.20	2.68E-04
4606	-0.10	5.31E-03	4589	0.20	6.36E-06
4607	-0.10	3.50E-03	4599	-0.20	5.51E-05
4608	-0.40	2.25E-13	6900	-0.20	3.89E-03
4610	0.10	6.37E-03	6909	-0.20	6.80E-03
4611	0.10	4.44E-03	6910	0.50	1.54E-11
4612	-0.30	3.42E-04	6919	-0.30	1.64E-06
4615	-0.50	3.62E-06	6921	-0.20	4.70E-03
4616	-0.30	2.30E-07	6925	-0.40	5.42E-03
4619	-0.40	1.22E-16	6928	0.40	1.08E-11
4620	0.20	1.09E-05	9208	-0.39	9.00E-07
6933	-0.30	4.42E-03	9213	0.21	1.94E-04
6934	-0.30	4.40E-03	9217	0.28	1.27E-04
6936	-0.50	8.02E-16	9219	-0.13	5.18E-03
6945	0.30	1.35E-12	9225	0.21	1.57E-09
6951	0.20	7.88E-05	9227	-0.22	5.48E-05
6953	0.50	4.76E-31	11895	0.24	2.74E-03
6954	-0.20	3.96E-04	4696	-0.40	4.75E-13
6961	0.30	3.50E-04	4699	0.20	3.41E-03
6962	0.30	5.05E-11	4702	0.10	2.57E-05
6967	-0.10	2.26E-03	4708	-0.50	1.48E-08
6976	0.30	2.14E-09	4723	-0.20	1.24E-03
11896	-0.14	4.91E-03	4728	0.30	1.37E-06
11897	0.27	3.86E-08	4731	-0.40	4.36E-05
11898	-0.39	5.30E-13	11920	0.15	7.51E-03
11900	-0.53	8.08E-13	11929	0.19	1.69E-07
11902	-0.41	4.00E-04			
11903	0.36	7.30E-08			
11908	0.20	3.38E-05			
11915	-0.22	1.81E-05			

11918	0.17	3.12E-04

300

TABLE 16 - GENETIC MARKERS FOR TEAT LENGTH

A	B	C	A	B	C	A	B	C	A	B	C
1	0.10	7.72E-03	259	-0.30	5.77E-03	508	-0.30	1.69E-12	774	0.20	3.94E-03
2	-0.20	9.37E-03	263	0.10	9.62E-03	511	0.10	2.83E-04	777	0.20	2.02E-06
6	0.10	6.98E-03	270	-0.10	7.56E-04	513	-0.10	3.83E-03	779	0.20	3.91E-05
8	-0.20	2.52E-05	273	-0.10	2.91E-03	515	0.20	2.70E-06	782	0.20	3.01E-08
22	0.20	4.33E-05	287	-0.20	3.71E-05	516	-0.20	9.63E-03	784	0.20	1.85E-05
26	-0.10	8.12E-03	288	-0.20	4.92E-05	524	0.10	5.16E-04	785	-0.20	7.81E-05
35	0.10	7.04E-04	290	0.10	4.97E-03	525	0.20	7.81E-05	792	0.20	1.53E-03
36	0.20	7.90E-05	293	0.20	4.66E-04	531	-0.10	8.10E-03	793	-0.20	1.68E-03
38	0.20	9.05E-04	297	0.20	6.22E-05	532	-0.20	2.44E-05	795	-0.10	8.15E-05
39	0.30	1.28E-04	298	-0.10	3.93E-04	534	0.10	1.59E-03	801	0.20	9.26E-05
44	0.10	7.52E-03	300	-0.10	7.98E-04	537	-0.10	1.65E-05	808	0.10	1.91E-03
46	0.20	1.62E-04	309	-0.10	6.68E-03	539	0.20	7.63E-06	811	-0.20	3.74E-03
50	0.20	6.35E-03	313	-0.20	6.37E-05	543	-0.10	1.71E-03	814	-0.10	1.29E-04
51	-0.20	3.06E-04	314	-0.20	4.89E-04	544	0.10	3.03E-03	827	-0.10	2.93E-04
52	0.10	5.13E-04	318	0.10	5.52E-03	546	0.20	4.23E-06	829	-0.30	8.35E-12
54	0.10	2.82E-04	323	0.20	1.21E-04	548	0.10	2.72E-03	837	0.20	8.90E-10
55	-0.40	9.11E-05	327	0.20	8.75E-07	552	-0.10	1.28E-03	840	0.30	3.50E-10
57	-0.20	4.76E-08	330	0.20	7.59E-05	559	-0.20	2.13E-05	841	0.10	2.09E-04
59	0.30	3.75E-04	331	0.20	3.84E-05	561	0.20	5.45E-04	844	-0.10	2.42E-03
61	0.20	7.89E-03	333	-0.20	6.69E-08	562	0.20	5.76E-05	846	0.30	8.52E-11
63	0.10	1.03E-03	335	0.10	4.43E-03	565	-0.20	4.54E-08	855	-0.20	2.42E-04
66	0.10	3.21E-05	336	0.20	1.60E-08	570	0.10	3.20E-04	858	0.10	9.36E-04
67	-0.20	3.18E-05	343	0.40	1.05E-05	576	-0.20	3.88E-04	860	-0.20	5.02E-05
75	0.10	6.34E-03	345	0.10	8.23E-03	582	-0.10	6.32E-03	865	-0.20	3.69E-06
82	-0.20	6.40E-04	348	0.10	2.43E-04	595	0.20	5.48E-09	868	0.10	2.25E-03
99	-0.20	3.49E-09	354	0.20	4.21E-05	620	-0.10	2.00E-03	870	-0.10	2.49E-04
106	0.10	3.10E-04	367	0.20	5.45E-05	621	-0.20	1.72E-05	871	0.10	8.38E-03
110	-0.20	5.75E-03	369	-0.30	1.82E-07	628	0.30	4.57E-04	875	0.30	2.46E-06
114	0.20	2.39E-03	372	0.20	3.12E-04	629	-0.40	9.06E-13	876	0.10	3.09E-04
120	0.20	6.38E-06	373	-0.30	8.79E-05	636	-0.20	4.68E-07	879	0.10	8.10E-04
121	0.20	2.77E-06	381	-0.10	3.17E-03	644	-0.20	3.13E-10	884	0.20	1.88E-05
131	-0.20	6.13E-08	385	-0.20	1.44E-06	647	-0.10	4.73E-04	901	0.10	4.80E-05
141	0.10	9.43E-03	386	0.30	3.07E-05	649	-0.10	1.30E-03	902	0.30	1.57E-06
152	-0.20	2.30E-07	390	0.10	4.31E-03	654	-0.30	1.40E-11	905	-0.10	7.80E-03
159	0.10	6.81E-03	393	-0.20	2.21E-04	657	0.10	1.07E-04	906	-0.30	7.96E-04
162	0.20	7.70E-04	394	0.30	1.09E-11	663	0.20	1.96E-05	919	-0.20	3.12E-05
164	0.20	1.48E-03	395	0.10	3.77E-03	664	0.20	2.18E-06	928	-0.20	1.37E-06

168	-0.20	3.01E-08	396	0.20	6.31E-04	668	0.20	1.03E-05	932	0.20	8.48E-05
171	-0.20	3.19E-06	404	-0.30	2.64E-09	674	-0.10	8.32E-03	934	0.20	3.45E-11
174	-0.20	5.49E-05	408	0.20	6.26E-04	680	0.20	1.40E-05	947	0.30	9.47E-10
176	0.20	6.81E-09	410	0.30	2.05E-15	681	-0.10	1.63E-04	949	0.20	1.23E-08
181	-0.20	2.64E-05	411	0.30	1.44E-15	683	-0.10	8.11E-04	951	0.20	3.53E-04
186	-0.20	8.53E-06	412	0.10	2.97E-03	688	-0.30	1.07E-15	954	-0.20	5.97E-05
189	0.20	8.80E-04	415	0.30	3.71E-11	690	0.20	5.14E-07	960	0.10	4.38E-04
191	0.10	3.92E-05	424	0.20	2.64E-04	703	-0.10	5.79E-04	962	-0.40	2.79E-16
192	-0.10	4.53E-03	429	-0.20	3.18E-05	718	0.10	1.99E-03	963	0.40	6.17E-09
194	-0.10	1.79E-04	435	0.20	1.63E-03	722	-0.10	2.90E-03	964	-0.20	8.09E-05
196	-0.10	3.33E-04	440	-0.20	1.17E-05	723	0.10	6.09E-04	977	-0.20	4.56E-03
198	-0.20	2.75E-05	441	-0.20	4.10E-03	724	0.20	3.76E-07	979	-0.30	1.44E-12
200	0.20	9.69E-09	447	0.20	9.85E-05	730	0.10	1.04E-03	980	-0.20	1.05E-03
203	0.20	3.12E-07	452	-0.10	9.35E-03	735	0.10	3.08E-04	983	0.20	1.63E-05
206	-0.20	4.41E-05	467	0.20	7.34E-09	736	-0.30	3.19E-11	984	-0.20	2.07E-07
215	0.20	1.25E-03	470	0.20	3.08E-06	741	-0.20	3.72E-03	989	-0.20	1.17E-03
216	-0.20	6.22E-03	474	-0.20	2.80E-09	742	-0.20	3.26E-03	992	0.10	6.90E-03
217	-0.30	8.79E-09	475	0.10	4.68E-03	744	-0.10	6.34E-03	994	0.10	3.79E-03
220	0.10	1.28E-04	476	-0.20	1.22E-05	747	-0.10	5.74E-03	998	-0.20	1.83E-06
221	0.20	8.40E-07	477	-0.10	7.07E-04	757	-0.10	5.01E-04	1005	-0.20	5.50E-04
249	0.20	2.13E-07	484	-0.10	2.49E-03	760	0.30	8.60E-03	1006	0.20	2.67E-04
250	0.10	4.08E-03	497	0.30	1.18E-11	761	-0.20	1.35E-03	1009	0.10	4.22E-03
251	-0.20	1.15E-05	498	-0.20	6.09E-07	762	-0.20	1.02E-04	1010	0.10	6.20E-04
257	-0.20	3.08E-04	499	-0.30	2.73E-10	764	0.20	1.65E-06	1012	-0.20	2.36E-05
301											
1319	-0.20	1.90E-04	502	0.10	9.08E-05	766	-0.10	4.18E-04	1016	0.30	2.24E-13
1325	0.20	1.79E-03	505	-0.20	8.29E-08	769	0.20	1.92E-10	1032	-0.10	7.56E-04
1332	-0.20	2.55E-04	507	0.10	1.22E-03	772	0.10	5.24E-03	1035	0.20	3.81E-06
1333	-0.40	3.45E-08	1575	0.10	5.54E-04	1836	0.10	4.93E-03	2121	-0.20	2.25E-05
1336	-0.20	1.15E-06	1583	0.20	1.08E-05	1837	-0.10	2.80E-03	2123	-0.20	2.94E-05
1350	0.10	7.77E-03	1587	0.30	6.89E-04	1850	-0.20	2.95E-03	2124	-0.30	9.34E-04
1354	0.20	1.65E-05	1599	-0.40	6.82E-17	1869	-0.20	4.76E-07	2126	-0.20	6.65E-05
1356	-0.20	4.33E-06	1601	0.10	9.42E-04	1870	0.30	2.94E-04	2131	0.20	1.60E-03
1364	-0.20	7.46E-06	1614	-0.20	7.84E-06	1871	0.30	1.13E-11	2140	-0.20	2.90E-05
1366	-0.10	6.35E-04	1616	-0.20	5.63E-06	1879	0.20	3.64E-04	2157	0.20	8.28E-03
1375	0.10	2.21E-03	1618	-0.20	4.83E-07	1882	-0.20	5.30E-03	2159	0.20	1.38E-03
1379	0.10	6.87E-03	1621	0.20	8.85E-09	1884	0.20	2.50E-08	2162	0.10	3.97E-04
1380	0.30	1.77E-08	1623	0.20	3.86E-06	1889	0.10	3.30E-03	2166	0.10	1.08E-03
1381	0.20	8.12E-06	1625	-0.20	8.53E-06	1893	-0.10	2.55E-03	2172	-0.20	2.79E-05
1385	0.20	4.66E-06	1626	-0.10	3.58E-04	1900	-0.10	7.58E-03	2176	-0.10	3.00E-05

1387	-0.10	3.58E-03	1630	0.20	2.11E-05	1901	0.20	3.84E-06	2187	0.20	3.26E-05
1389	-0.20	5.08E-05	1635	0.20	1.41E-07	1902	0.20	3.40E-05	2190	0.20	3.00E-04
1393	0.30	1.14E-15	1639	-0.10	2.67E-03	1903	0.20	7.62E-05	2193	-0.30	1.68E-10
1396	0.20	1.18E-04	1640	0.20	1.88E-06	1910	-0.30	1.76E-06	2197	-0.30	4.16E-05
1397	-0.20	6.32E-05	1642	-0.20	7.98E-05	1928	0.20	9.36E-08	2200	0.30	4.96E-07
1401	0.20	3.40E-08	1652	-0.10	3.11E-03	1932	0.20	1.18E-03	2211	-0.10	2.40E-04
1402	0.10	4.44E-03	1653	-0.30	5.63E-14	1933	-0.10	2.96E-03	2215	-0.10	3.81E-04
1406	0.30	2.26E-11	1656	-0.20	2.18E-07	1938	0.20	1.54E-07	2226	0.20	3.74E-03
1410	0.20	3.83E-08	1677	-0.30	4.63E-13	1939	-0.20	2.61E-06	2227	0.20	8.95E-05
1412	-0.20	1.12E-04	1678	0.10	7.04E-03	1941	-0.20	4.87E-07	2228	0.30	4.62E-07
1424	-0.20	4.29E-05	1681	-0.30	9.66E-09	1947	-0.20	1.81E-03	2231	-0.20	1.58E-05
1429	0.10	1.10E-03	1692	-0.20	2.83E-05	1949	0.20	4.65E-04	2237	0.30	1.03E-07
1431	0.10	5.62E-03	1693	-0.10	2.14E-03	1950	0.30	1.33E-04	2239	-0.20	4.48E-08
1433	-0.30	1.00E-11	1694	-0.10	2.20E-03	1952	0.20	3.70E-03	2242	-0.20	7.48E-05
1438	-0.20	3.86E-05	1696	0.30	2.62E-04	1962	-0.20	6.40E-06	2245	0.10	3.32E-03
1439	-0.20	2.99E-05	1700	0.10	2.93E-03	1974	0.20	5.94E-10	2250	0.20	8.79E-08
1443	-0.20	1.33E-07	1710	0.10	8.89E-04	1978	0.20	2.64E-05	2251	0.10	5.97E-04
1444	-0.20	7.42E-08	1714	0.30	2.57E-04	1980	-0.20	4.18E-04	2256	-0.20	3.67E-03
1449	-0.20	1.72E-03	1717	0.20	2.47E-04	1982	0.20	4.28E-09	2257	0.20	1.79E-05
1451	-0.40	5.04E-14	1730	-0.30	1.12E-12	1983	-0.10	2.69E-04	2268	0.20	4.79E-03
1464	-0.20	1.09E-06	1731	0.20	1.84E-07	1996	-0.20	8.31E-06	2283	0.20	4.01E-06
1465	0.20	4.05E-08	1737	-0.20	3.71E-03	1997	-0.20	3.16E-04	2284	0.10	4.93E-04
1466	0.20	3.03E-04	1743	0.20	3.49E-03	1999	-0.20	3.01E-05	2293	-0.20	5.51E-12
1467	-0.10	8.77E-03	1744	-0.20	6.20E-04	2004	-0.20	2.31E-04	2294	-0.20	5.74E-12
1468	-0.20	5.55E-05	1745	-0.20	6.39E-04	2009	0.10	6.48E-03	2300	-0.10	2.15E-03
1475	0.10	4.27E-05	1751	-0.20	6.77E-11	2010	-0.10	6.02E-05	2303	-0.10	4.85E-03
1480	-0.30	2.93E-03	1752	-0.30	2.78E-08	2013	0.10	8.29E-04	2306	-0.30	2.73E-05
1483	0.20	7.85E-03	1757	0.20	5.86E-06	2017	0.10	7.16E-03	2311	-0.20	3.42E-07
1490	-0.20	1.04E-04	1764	0.20	2.94E-05	2018	-0.10	1.70E-04	2312	-0.20	2.24E-03
1491	-0.20	4.55E-05	1772	0.20	1.18E-03	2019	-0.20	2.31E-05	2318	0.10	1.17E-03
1501	0.20	3.09E-05	1773	0.20	1.13E-03	2024	-0.20	4.63E-06	2320	0.10	3.50E-03
1505	-0.20	4.36E-03	1776	0.20	2.22E-06	2028	-0.20	1.57E-04	2321	0.10	6.88E-05
1507	-0.20	3.73E-04	1780	-0.20	2.77E-10	2043	0.20	2.51E-05	2325	0.20	1.38E-06
1511	-0.20	1.54E-03	1788	0.20	2.25E-05	2045	-0.30	9.83E-17	2329	0.10	1.99E-03
1516	-0.10	4.24E-03	1789	-0.10	8.15E-04	2048	-0.10	3.99E-04	2334	0.10	1.26E-03
1524	-0.20	2.75E-07	1790	0.10	2.65E-04	2049	-0.20	9.57E-07	2335	0.30	4.68E-18
1526	0.10	1.84E-03	1794	0.10	1.79E-03	2059	-0.30	1.15E-12	2343	-0.20	4.22E-09
1527	0.20	3.49E-05	1798	-0.30	2.37E-08	2061	-0.10	2.22E-03	2350	-0.20	2.76E-03
1530	0.30	4.39E-14	1799	-0.10	4.02E-04	2075	0.10	2.39E-04	2353	-0.20	5.55E-04
1548	0.10	4.24E-03	1803	0.20	7.94E-04	2077	-0.20	2.10E-14	2357	-0.10	5.65E-03

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TABLE 14 - GENETIC MARKERS FOR MAMMARY SYSTEM

A	B	C	A	B	C	A	B	C
2	0.30	1.76E-04	219	0.30	4.30E-09	407	-0.20	1.07E-04
3	0.20	6.27E-07	220	-0.20	3.06E-05	408	-0.50	4.65E-11
6	-0.20	4.84E-04	221	-0.10	8.02E-03	410	-0.40	2.12E-18
13	0.20	9.47E-04	222	-0.20	7.47E-07	411	-0.40	9.43E-19
15	0.20	8.56E-04	224	0.30	2.73E-03	412	-0.40	1.51E-08
16	0.20	1.48E-04	231	-0.40	1.26E-13	415	-0.30	1.06E-06
22	-0.20	3.30E-07	239	-0.10	8.08E-03	423	-0.20	1.32E-03
26	0.20	1.39E-04	246	-0.40	6.87E-06	425	-0.20	7.04E-06
27	-0.10	5.69E-03	249	-0.30	1.43E-12	429	0.20	5.28E-08
35	-0.30	6.14E-14	250	-0.30	8.92E-08	433	-0.20	1.07E-04
36	-0.50	1.63E-11	251	0.20	1.45E-04	435	-0.30	1.69E-05
38	-0.30	1.53E-03	257	0.40	2.02E-12	440	0.10	4.79E-03
39	-1.00	6.03E-13	259	0.30	1.20E-03	444	-0.20	7.59E-06
46	-0.40	2.89E-14	265	-0.30	5.83E-09	447	-0.20	1.10E-04
52	-0.40	6.91E-18	270	0.20	2.14E-06	450	0.20	3.65E-06
54	0.20	2.77E-06	272	-0.30	3.71E-08	467	-0.30	7.97E-08
55	0.20	2.19E-03	276	-0.50	6.01E-05	476	0.40	1.53E-16
57	0.20	4.08E-04	282	0.30	1.07E-10	478	0.30	2.36E-09
59	-0.60	5.83E-05	285	-0.20	5.67E-03	479	-0.90	6.84E-09
61	-0.30	2.78E-08	298	0.10	3.26E-03	481	0.10	9.61E-04
62	-0.30	2.63E-03	300	0.10	5.94E-03	484	0.10	3.12E-03
63	-0.30	3.73E-12	303	0.10	8.09E-03	488	-0.20	2.25E-05
66	-0.30	4.87E-09	305	0.30	3.78E-09	497	-0.50	6.00E-15
67	0.30	1.34E-12	307	0.30	1.70E-13	499	0.50	6.48E-16
71	-0.50	2.03E-13	309	0.20	1.78E-05	505	0.20	2.15E-07
73	0.20	2.28E-05	312	-0.30	3.11E-09	507	-0.10	3.02E-03
75	-0.20	3.82E-05	314	0.20	7.57E-03	508	0.40	2.13E-20
77	-0.10	1.52E-03	315	0.20	1.40E-06	511	-0.30	3.09E-05
86	0.30	1.07E-05	318	-0.30	2.21E-09	522	-0.30	9.52E-04
99	0.40	1.50E-26	320	-0.30	1.97E-04	525	-0.20	3.27E-03
101	-0.50	1.66E-26	321	0.20	1.18E-03	529	-0.30	3.18E-05
106	0.20	1.06E-07	323	-0.30	1.65E-04	531	0.30	7.30E-09
114	-0.20	2.83E-03	327	-0.20	2.87E-04	532	0.20	3.41E-06
120	-0.20	2.11E-03	328	-0.30	8.21E-05	534	-0.30	7.27E-10
122	-0.30	2.11E-03	330	-0.50	1.34E-11	536	-0.20	3.63E-03
126	0.40	8.68E-05	331	-0.30	3.15E-08	537	0.30	1.87E-14
131	0.50	1.87E-29	333	0.50	4.80E-28	539	-0.10	7.46E-03

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TABLE 19 - GENETIC MARKERS FOR LIKABILITY

A	B	C	A	B	C	A	B	C
2	1.70	1.74E-07	2456	1.10	3.52E-07	4834	-2.90	4.13E-07
3	0.80	9.48E-06	2465	-1.60	6.34E-22	4835	0.80	5.85E-03
4	1.20	1.96E-04	2466	-1.00	2.35E-08	4839	-0.80	3.55E-08
13	0.80	3.55E-05	2470	-1.70	7.53E-07	4843	1.00	2.21E-09
15	1.00	6.39E-05	2471	1.60	2.11E-22	4847	0.60	8.43E-05
22	-1.10	1.65E-09	2472	-1.60	5.74E-12	4854	-0.70	2.82E-04
35	-0.90	2.51E-07	2473	0.80	3.78E-03	4858	-1.50	9.37E-13
36	-1.20	8.79E-07	2476	1.10	4.20E-10	4859	-0.60	9.13E-04
38	-2.40	7.00E-09	2479	0.50	3.46E-04	4863	-1.30	9.18E-13
39	-3.00	5.52E-11	2480	0.40	2.48E-03	4864	-0.90	1.50E-05
46	-1.00	8.67E-06	2483	0.70	1.37E-04	4870	-0.50	8.56E-03
52	-1.30	9.23E-12	2484	1.40	4.27E-16	4871	-0.70	1.34E-04
54	0.70	2.76E-04	2485	1.40	6.31E-17	4873	1.00	4.80E-07
55	1.00	1.59E-03	2486	0.90	2.96E-07	4877	0.60	1.35E-03
57	0.60	1.69E-03	2489	0.70	3.64E-04	4879	-0.90	1.08E-06
63	-1.30	4.33E-13	2490	-1.50	7.49E-03	4887	-0.90	1.04E-03
66	-1.10	2.44E-10	2491	1.70	2.77E-21	4893	1.00	3.89E-08
67	1.10	1.06E-09	2494	0.70	1.58E-04	4894	-1.20	1.31E-09
71	-0.90	4.02E-05	2501	-0.70	2.38E-07	4898	1.00	1.14E-12
73	0.90	1.07E-06	2510	-1.30	3.88E-03	4899	0.50	4.52E-03
75	-0.60	1.04E-03	2511	0.60	9.44E-03	4904	-0.70	5.84E-05
77	-1.00	3.06E-07	2515	1.10	2.17E-05	4905	-0.70	9.60E-03
86	1.40	2.83E-09	2521	0.60	7.50E-03	4909	-0.50	1.12E-03
97	-1.00	1.65E-07	2522	-1.40	4.82E-15	4911	1.40	1.11E-10
99	1.40	1.33E-16	2523	-1.40	2.88E-15	4914	-0.90	9.74E-06
101	-1.20	1.55E-10	2524	-0.70	6.53E-03	4919	0.80	9.23E-03
106	0.70	3.81E-05	2525	-0.70	7.56E-03	4920	1.30	1.93E-14
114	-0.90	1.04E-04	2527	0.70	3.15E-05	4924	0.90	1.22E-07
118	-0.70	7.17E-04	2532	-1.30	9.60E-11	4927	0.40	4.93E-03
120	-1.20	6.24E-06	2534	1.00	2.67E-03	4929	-0.70	9.44E-04
121	-0.50	5.49E-03	2535	1.60	6.80E-15	4934	0.50	8.91E-03
126	1.70	1.16E-08	2537	0.50	4.42E-04	4936	-1.40	2.30E-07
131	1.30	6.25E-15	2543	1.20	2.44E-08	4937	0.80	5.92E-06
140	-0.60	7.57E-04	2550	-1.30	1.27E-04	4938	0.50	7.82E-03
141	-0.70	1.37E-04	2553	0.70	5.54E-05	4946	-0.70	1.26E-04

143	0.60	8.50E-03	2568	0.90	1.12E-06	4951	0.60	7.90E-04
145	0.70	9.17E-04	2571	-0.90	1.17E-04	4958	1.20	2.01E-12
152	1.30	1.22E-09	2575	1.40	1.83E-07	4960	1.20	9.90E-04
154	-1.40	2.05E-06	2577	-1.20	2.77E-04	4962	-1.50	1.87E-04
159	-1.30	2.12E-06	2578	-1.40	1.32E-04	4970	-0.80	3.53E-03
162	-1.00	3.86E-03	2580	1.00	2.26E-07	4973	0.90	2.30E-06
168	1.00	1.14E-08	2582	-1.00	3.34E-08	4976	-1.00	7.69E-04
171	1.30	7.05E-14	2583	0.60	7.60E-04	4977	-1.20	6.90E-06
173	-1.30	6.96E-03	2587	-0.60	7.81E-03	4982	-0.90	4.60E-07
174	1.00	4.32E-06	2590	1.00	4.24E-04	4986	-1.10	5.18E-05
176	-1.70	1.34E-19	2591	-0.70	2.90E-04	4987	-1.80	2.07E-03
177	0.80	5.80E-05	2595	1.60	2.88E-21	4991	-1.30	2.83E-12
181	1.30	3.64E-13	2599	-0.70	2.53E-04	4994	-0.80	1.81E-05
186	0.70	7.11E-05	2604	-1.50	3.35E-10	4995	-0.90	4.85E-03
191	-1.10	1.72E-08	2608	1.50	1.59E-18	4996	-1.20	3.86E-07
194	1.20	6.25E-13	2611	-1.60	2.32E-07	5003	-1.30	1.07E-04
196	0.90	1.66E-07	2612	-0.80	8.71E-05	5004	-2.40	5.96E-09
200	-1.30	1.34E-10	2613	-1.30	8.39E-09	5005	-2.40	6.08E-09
201	-0.70	3.75E-04	2617	-0.90	7.36E-04	5010	-1.30	3.34E-06
209	0.70	4.90E-05	2619	0.90	3.72E-04	5013	0.80	6.60E-06
215	-1.00	8.52E-05	2620	0.80	5.94E-08	5016	-1.10	4.16E-13
217	1.80	1.19E-17	2622	0.60	8.25E-04	5025	1.90	1.42E-30
219	1.30	8.33E-12	2624	0.90	3.57E-07	5028	-0.60	5.40E-04
220	-0.60	1.15E-03	2630	0.90	2.28E-03	5034	0.50	8.17E-03
221	-0.90	9.50E-06	2633	-1.50	1.03E-06	5036	0.60	7.14E-04
225	0.50	5.13E-03	2639	0.50	2.96E-03	5037	-0.60	1.74E-03
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226	-1.30	3.44E-04	2640	1.70	8.34E-09	5045	0.40	4.58E-03
231	-1.90	4.31E-15	2642	0.70	2.67E-04	5046	-1.10	7.35E-10
233	-0.70	5.19E-04	2643	-0.80	5.16E-04	5047	1.10	3.81E-03
238	-0.80	2.82E-04	2647	0.60	2.58E-03	5060	0.60	4.41E-03
242	0.50	3.82E-03	2649	-0.60	1.32E-03	5061	-1.50	1.21E-06
246	-1.30	8.49E-05	2650	0.50	6.14E-03	5063	-1.70	3.79E-08
248	1.30	1.95E-07	2664	0.60	5.59E-04	5066	-0.70	9.77E-05
249	-0.80	1.50E-05	2665	0.60	3.51E-04	5069	1.20	2.03E-11
251	1.00	3.28E-09	2667	0.90	2.71E-03	5070	0.90	2.78E-05
255	0.80	9.40E-03	2668	-1.30	1.59E-11	5071	1.00	1.20E-08
257	1.10	2.30E-08	2670	-1.00	5.63E-03	5074	-1.60	6.30E-04

259	1.40	1.33E-05	2682	0.90	9.22E-03	5078	-0.40	1.89E-03
262	-0.50	2.19E-03	2684	0.80	3.01E-04	5079	1.40	1.54E-16
263	-0.80	2.53E-03	2686	1.30	2.13E-09	5083	0.80	1.91E-04
265	-0.70	3.37E-04	2688	-1.40	2.82E-12	5086	0.80	5.06E-07
270	0.60	7.18E-05	2693	1.00	1.60E-08	5088	0.80	1.02E-11
272	-0.50	7.99E-03	2694	0.80	5.56E-04	5093	-1.00	9.62E-09
273	0.70	1.26E-03	2696	1.30	3.19E-14	5094	1.10	2.82E-05
276	-1.20	7.29E-03	2697	0.70	4.24E-03	5098	0.60	1.13E-03
282	0.70	5.33E-05	2698	0.90	9.79E-07	5111	-1.60	2.52E-04
287	0.80	1.27E-04	2702	0.70	2.37E-03	5117	1.60	5.92E-12
288	0.80	1.00E-04	2703	-1.40	1.04E-06	5122	-1.20	7.03E-06
301	-0.50	5.90E-03	2705	-1.30	8.05E-11	5124	-1.00	6.76E-07
305	1.20	5.86E-13	2707	-0.70	9.15E-04	5125	0.80	4.63E-06
307	1.00	7.39E-09	2712	-0.60	9.10E-04	5133	-1.80	8.87E-08
312	-0.70	2.45E-04	2714	-2.00	5.82E-05	5134	-1.30	1.07E-11
313	0.70	6.05E-04	2721	0.80	1.66E-03	5138	-0.80	2.93E-05
318	-1.10	2.06E-09	2726	0.60	5.53E-03	5140	0.80	2.10E-04
321	1.40	4.94E-07	2727	0.60	2.24E-03	5147	0.70	6.57E-03
323	-1.40	7.35E-06	2730	-1.30	1.10E-04	5148	-1.30	8.16E-10
326	0.70	1.57E-04	2731	-1.30	1.34E-04	5149	-0.90	1.76E-05
328	-0.80	1.22E-03	2733	1.00	1.21E-03	5151	0.90	8.02E-03
330	-1.20	4.20E-07	2735	1.60	7.59E-20	5152	0.40	2.51E-03
331	-1.10	1.79E-09	2736	0.70	1.74E-04	5155	-1.30	2.40E-03
333	1.30	9.41E-15	2738	-0.80	1.50E-04	5159	0.50	7.56E-03
335	-1.20	4.13E-06	2739	-0.80	2.81E-04	5164	-0.90	5.04E-08
336	-1.30	2.26E-12	2740	0.80	2.65E-05	5165	0.80	2.12E-04
337	1.20	4.66E-13	2742	-1.10	7.89E-03	5166	-0.80	2.13E-04
343	-2.10	1.96E-04	2743	0.80	2.07E-04	5172	-1.20	8.03E-11
345	-1.50	6.39E-09	2746	0.90	1.74E-11	5175	-0.80	6.46E-03
348	-0.60	2.66E-03	2752	-1.50	6.40E-06	5176	-2.70	3.00E-06
349	-0.70	1.10E-03	2754	2.10	1.28E-36	5177	-0.60	2.33E-03
352	0.80	1.81E-03	2756	-1.60	5.11E-20	5179	-1.20	4.31E-03
354	-1.90	6.63E-10	2758	0.60	1.56E-03	5183	-1.50	1.91E-03
359	0.50	3.03E-03	2760	-1.50	1.37E-14	5185	0.80	1.40E-04
367	-0.90	1.33E-06	2761	-1.50	2.02E-14	5199	-0.80	1.73E-04
368	0.40	2.17E-03	2770	-0.70	3.01E-03	5201	-0.50	5.93E-03
369	1.30	1.86E-09	2772	-0.70	2.25E-04	5205	-1.00	7.74E-05
372	-0.80	3.28E-03	2773	-1.00	5.69E-04	5206	0.60	2.40E-03

373	1.70	8.91E-08	2774	1.30	1.07E-05	5207	1.30	5.44E-08
376	-1.50	1.72E-05	2776	-1.60	9.77E-04	5209	0.60	1.87E-03
377	-1.90	5.94E-05	2778	0.80	1.06E-06	5212	-0.60	1.44E-03
378	-0.50	2.15E-03	2781	1.80	1.13E-26	5219	0.70	5.95E-04
381	0.80	3.11E-06	2782	0.80	4.39E-12	5229	-0.80	6.40E-03
382	0.70	1.67E-03	2786	0.50	3.55E-03	5230	0.60	2.00E-04
386	-1.10	8.79E-03	2789	1.10	1.81E-04	5231	1.00	7.52E-08
392	-0.70	2.36E-04	2799	0.70	2.80E-04	5232	1.00	2.22E-03
393	1.90	1.52E-27	2816	-1.80	3.01E-04	5235	-0.90	7.81E-05
394	-1.60	2.77E-14	2820	-1.60	3.15E-08	5237	0.60	3.04E-03
395	-0.90	6.73E-07	2821	-0.80	4.05E-06	5239	-1.00	1.41E-06
396	-0.70	3.37E-03	2822	-1.00	4.78E-07	5241	-0.80	1.93E-05
397	0.50	3.40E-03	2824	0.50	9.98E-03	5247	1.00	3.02E-08
404	1.50	1.46E-14	2828	0.80	7.61E-06	5251	-0.50	5.13E-04
333								
408	-1.40	7.15E-08	2829	-1.30	2.77E-07	5252	-0.50	3.72E-04
410	-1.50	1.88E-17	2830	-1.30	9.82E-08	5253	0.90	1.18E-06
411	-1.60	1.20E-17	2832	0.60	9.74E-04	5255	0.50	1.45E-03
412	-1.30	1.00E-07	2836	0.60	6.93E-04	5258	1.60	1.02E-06
415	-1.50	1.43E-10	2838	-1.60	2.83E-13	5261	-1.10	3.50E-08
418	1.00	1.24E-05	2841	-1.10	2.53E-03	5262	0.90	8.15E-04
424	-1.20	4.94E-04	2843	1.50	4.21E-18	5267	-1.50	1.43E-03
425	-0.80	1.96E-05	2844	-1.00	6.26E-04	5272	0.70	6.26E-05
428	0.50	3.17E-03	2845	-0.90	3.11E-03	5273	-1.50	4.93E-16
429	0.50	3.14E-03	2848	-1.60	7.62E-19	5274	-1.50	5.56E-16
435	-1.50	6.44E-04	2850	-1.50	1.50E-04	5275	-1.30	2.87E-11
437	0.70	7.96E-03	2857	-0.90	2.43E-03	5279	-0.60	4.47E-04
444	-0.80	1.01E-04	2862	-0.90	6.76E-03	5280	1.00	5.87E-06
450	0.90	8.12E-08	2867	-1.10	5.06E-04	5285	-1.60	8.47E-15
457	-0.60	3.54E-03	2872	0.90	2.93E-08	5291	1.70	3.16E-11
465	-1.50	2.27E-06	2874	-1.20	1.87E-08	5293	-1.50	1.45E-04
467	-1.30	3.48E-13	2877	1.40	5.61E-05	5294	1.30	2.43E-06
470	-0.80	8.37E-04	2878	-0.70	9.68E-05	5295	-1.10	5.86E-04
474	1.00	3.77E-08	2880	-1.60	1.26E-03	5300	1.00	5.13E-03
475	-0.70	3.85E-03	2882	0.90	1.97E-07	5302	-1.80	1.18E-23
476	1.40	9.09E-13	2888	-0.70	6.17E-05	5308	-1.30	7.51E-12
477	0.70	1.49E-04	2889	0.80	2.51E-06	5310	-0.90	8.14E-03
478	0.70	3.28E-05	2890	1.60	9.23E-30	5316	1.30	2.20E-11

479	-3.20	1.49E-07	2891	0.80	4.21E-06	5317	1.00	2.98E-08
497	-1.60	1.01E-10	2896	-0.90	4.09E-04	5321	0.90	1.69E-06
499	1.10	1.68E-05	2897	-1.10	5.07E-03	5322	1.10	2.28E-04
502	-0.60	2.72E-04	2898	-1.20	2.01E-03	5323	-0.70	1.51E-04
507	-1.50	4.12E-12	2900	1.00	5.70E-07	5326	-0.50	9.91E-03
508	1.30	5.61E-15	2901	-1.80	1.11E-15	5329	-1.80	3.85E-05
522	-0.90	6.57E-03	2907	-0.60	9.33E-04	5330	0.80	2.51E-06
525	-1.00	5.32E-04	2909	-0.60	2.66E-03	5331	-0.70	8.01E-04
530	-1.30	2.86E-03	2914	1.00	1.79E-07	5333	-0.50	6.83E-03
531	1.30	1.99E-10	2922	1.10	4.53E-05	5334	-0.50	6.60E-03
532	1.30	1.17E-13	2924	1.60	3.12E-17	5338	0.50	2.34E-03
534	-1.10	1.49E-07	2929	-0.70	1.73E-04	5340	-1.80	2.73E-03
535	0.70	1.95E-03	2930	-0.60	1.12E-03	5344	1.40	3.11E-16
537	0.80	2.47E-08	2939	-0.60	4.09E-03	5345	2.00	6.18E-31
538	-0.50	3.04E-03	2941	-0.80	3.37E-04	5348	0.80	3.27E-04
539	-0.90	2.21E-06	2942	0.80	3.60E-05	5353	1.60	4.96E-21
540	-1.50	1.31E-15	2946	1.20	2.55E-12	5355	0.70	6.27E-05
541	-0.90	1.10E-04	2954	-0.40	1.72E-03	5360	1.10	2.25E-05
543	0.70	1.17E-03	2955	-1.70	4.15E-06	5361	-1.20	1.24E-05
546	-0.90	8.71E-06	2959	-1.50	9.49E-15	5367	-0.80	2.37E-06
550	1.00	3.18E-04	2967	-0.50	7.76E-03	5369	-0.90	3.76E-04
552	0.80	7.97E-06	2968	-0.80	3.68E-05	5377	1.00	3.88E-05
553	-0.60	6.82E-04	2970	-0.70	9.84E-03	5379	-1.70	4.42E-19
559	1.10	2.83E-11	2971	-1.20	2.69E-10	5381	0.60	1.41E-03
561	-2.00	6.38E-12	2974	-1.30	4.92E-07	5384	0.70	8.07E-05
565	1.00	4.20E-09	2980	-1.50	2.57E-04	5387	-0.60	2.70E-03
569	-0.70	5.13E-05	2996	0.50	4.81E-03	5390	0.40	5.13E-03
570	-1.20	6.06E-10	2997	0.70	1.54E-06	5397	0.50	4.92E-03
571	0.70	4.25E-05	2998	-1.10	4.88E-07	5399	-1.60	7.54E-13
580	-0.50	8.03E-03	3003	0.90	1.85E-04	5402	-0.60	4.41E-06
583	-0.50	2.06E-03	3006	1.00	8.03E-10	5404	-0.50	1.25E-03
588	-1.10	1.60E-04	3008	1.30	4.20E-07	5405	-0.80	8.21E-05
592	1.10	5.99E-09	3021	0.70	1.05E-03	5412	-0.70	4.65E-04
594	-0.60	6.89E-04	3026	-1.00	8.61E-08	5414	-0.90	7.02E-06
595	-1.60	1.94E-10	3027	-1.60	2.79E-07	5417	1.10	1.43E-06
598	-0.70	1.92E-04	3029	-1.70	8.09E-04	5419	0.80	3.42E-05
605	-0.60	2.75E-03	3031	1.60	8.90E-10	5429	1.50	1.44E-15
609	-1.50	6.18E-03	3033	-2.50	5.67E-08	5432	1.50	2.49E-22

614	-1.00	1.35E-08	3034	1.50	4.76E-15	5439	-2.20	2.47E-06
615	0.90	3.45E-08	3037	-0.70	5.02E-04	5443	0.70	4.23E-03
334								
620	0.90	5.91E-08	3039	0.70	9.95E-04	5446	1.20	1.08E-11
629	1.90	4.01E-26	3040	-0.50	1.61E-03	5448	1.20	7.02E-07
636	0.80	2.87E-05	3042	0.60	6.30E-03	5454	-0.60	5.26E-03
637	-0.50	4.68E-03	3044	-1.30	4.18E-07	5461	-1.20	2.99E-06
644	1.30	4.63E-15	3048	1.40	9.24E-13	5463	-0.90	4.65E-08
645	-0.70	6.65E-04	3050	-1.90	5.41E-15	5465	0.60	1.55E-03
648	0.70	1.09E-04	3051	-0.80	1.92E-04	5466	-0.60	7.86E-04
649	1.30	1.15E-14	3053	1.20	3.02E-09	5470	-1.00	1.57E-07
653	1.30	1.08E-05	3057	-1.00	1.21E-06	5473	-1.30	3.85E-10
654	0.70	6.57E-04	3059	-0.80	8.49E-06	5477	0.90	3.61E-03
657	-1.00	1.07E-08	3061	-0.90	5.37E-03	5480	1.40	1.57E-12
661	-0.50	5.94E-03	3062	-1.00	2.45E-06	5489	-0.90	2.84E-06
663	-1.40	9.21E-09	3066	1.30	1.21E-13	5491	1.10	1.41E-09
664	-1.50	1.43E-15	3068	0.90	8.28E-08	5495	1.10	1.29E-06
667	-0.50	6.75E-03	3069	1.00	7.64E-08	5499	1.00	4.35E-08
668	-1.00	6.34E-08	3072	1.60	7.80E-11	5501	1.50	1.41E-16
672	1.00	7.09E-09	3074	-1.20	4.32E-04	5502	1.50	3.33E-16
678	0.60	1.57E-04	3077	0.80	3.79E-06	5503	-1.00	1.67E-03
681	1.30	3.85E-14	3079	-1.00	2.03E-05	5505	-2.30	1.11E-09
688	0.90	8.89E-08	3084	-0.80	6.14E-05	5509	1.40	4.03E-10
690	-1.70	1.61E-10	3089	-0.90	6.49E-07	5512	-1.10	1.25E-05
693	1.10	9.51E-05	3092	1.40	1.40E-04	5513	-0.70	8.83E-05
696	-0.60	5.03E-04	3093	0.90	1.26E-03	5514	0.90	5.40E-03
703	0.80	1.21E-05	3097	-1.00	1.88E-05	5520	1.10	6.27E-09
705	-0.50	9.11E-03	3100	-1.50	3.02E-09	5522	-1.30	3.32E-12
708	0.90	9.52E-03	3114	0.60	6.25E-03	5523	-1.20	9.73E-05
718	-1.00	2.34E-06	3116	0.80	6.15E-05	5527	1.00	8.85E-09
722	0.40	6.31E-03	3117	1.50	1.06E-05	5529	-0.80	1.77E-05
724	-1.20	1.22E-06	3118	-0.70	1.60E-04	5536	-0.50	1.70E-03
730	-1.50	3.58E-10	3120	-0.90	7.63E-07	5539	-0.90	5.45E-05
736	1.10	1.89E-10	3122	0.60	7.97E-03	5546	-0.60	6.31E-04
741	1.00	5.94E-03	3124	-1.20	1.91E-11	5548	0.60	1.23E-03
742	1.00	4.10E-03	3125	-1.10	2.02E-08	5551	0.60	9.15E-04
750	0.90	9.72E-03	3127	-0.70	9.33E-05	5552	-0.70	1.42E-04
753	-0.60	7.64E-04	3129	1.20	2.44E-12	5557	-0.70	9.36E-05

760	-2.30	7.11E-06	3131	0.60	4.14E-04	5558	-0.70	1.12E-04
761	1.10	5.32E-05	3132	0.90	4.36E-07	5563	-0.70	7.86E-06
762	1.20	1.89E-07	3133	0.50	6.12E-03	5570	1.40	1.45E-21
766	0.70	5.41E-05	3139	-0.60	4.58E-03	5571	1.50	9.72E-07
769	-1.00	4.90E-09	3141	0.70	2.74E-04	5572	0.50	4.19E-03
772	-0.70	1.67E-03	3143	-1.50	2.39E-12	5574	-0.80	1.02E-05
776	0.70	1.58E-04	3144	-0.80	1.66E-05	5576	1.20	2.44E-06
777	-1.20	1.90E-05	3145	-0.80	1.20E-05	5578	0.60	3.38E-03
778	0.70	8.48E-03	3151	-0.80	7.22E-03	5580	-1.50	1.02E-14
779	-1.90	6.04E-12	3152	0.80	2.00E-06	5581	-0.70	1.08E-03
782	-0.80	4.51E-05	3153	-0.70	1.85E-04	5583	-1.60	3.82E-04
784	-1.10	5.98E-04	3154	1.00	1.30E-06	5590	1.10	1.51E-09
785	0.90	1.30E-03	3158	-0.90	3.66E-07	5592	1.20	1.33E-12
793	1.60	2.32E-14	3165	-1.70	1.32E-12	5593	-1.30	2.13E-07
794	1.30	4.91E-09	3166	-1.20	2.86E-12	5596	-1.10	1.28E-07
795	1.10	1.99E-10	3167	-1.40	1.42E-07	5597	-1.10	1.66E-07
801	-1.80	2.43E-06	3168	0.70	2.08E-05	5601	-0.50	3.42E-03
808	-0.70	3.05E-04	3170	1.10	9.89E-07	5602	-0.90	1.58E-07
809	0.90	6.83E-04	3176	1.00	1.67E-08	5605	-1.80	9.14E-08
811	1.40	2.12E-07	3177	-1.30	1.11E-05	5606	-1.70	2.77E-06
812	1.30	1.10E-11	3179	-0.80	1.65E-04	5608	-2.00	3.45E-28
818	1.70	5.59E-07	3180	-0.50	4.65E-03	5614	-1.60	3.70E-07
826	-1.60	5.20E-04	3181	-1.00	7.44E-05	5616	0.60	2.22E-03
827	0.50	5.94E-03	3183	-1.20	5.15E-09	5617	-0.50	6.30E-03
829	1.40	9.68E-12	3184	1.30	1.97E-14	5619	1.10	5.90E-08
837	-0.90	1.64E-04	3189	-1.10	9.13E-09	5623	1.20	1.74E-09
840	-2.20	1.84E-13	3190	1.20	4.40E-09	5624	-0.60	4.63E-03
842	-1.00	4.69E-07	3196	-1.20	2.01E-07	5625	-0.80	2.12E-03
335								
844	0.70	1.45E-04	3198	-0.50	9.73E-03	5627	0.90	7.20E-07
846	-1.80	2.01E-11	3199	-0.80	4.19E-04	5630	1.00	4.72E-05
847	0.70	5.69E-04	3210	0.80	2.52E-06	5637	1.20	7.11E-10
849	0.50	8.93E-03	3217	-0.70	5.05E-04	5638	1.70	2.69E-15
854	-1.10	2.96E-07	3218	-1.40	2.05E-09	5639	-0.80	1.88E-05
858	-1.00	3.34E-07	3220	0.70	1.80E-04	5646	-0.50	2.83E-03
860	1.10	3.35E-07	3227	-1.20	1.62E-05	5648	-0.70	6.54E-03
864	1.10	1.59E-10	3235	-0.60	4.51E-03	5658	1.50	3.60E-07
865	1.20	4.17E-09	3239	-1.00	4.52E-04	5660	0.60	1.63E-03

867	-0.80	4.20E-05	3240	-1.00	4.44E-04	5667	0.90	3.43E-06
868	-1.30	2.53E-07	3241	-1.90	6.55E-11	5668	-1.50	1.23E-10
870	1.30	4.26E-14	3245	0.90	2.53E-06	5670	0.50	6.21E-03
875	-1.20	6.91E-06	3248	-1.50	5.90E-05	5674	-2.20	1.78E-15
876	-1.00	8.19E-08	3258	0.70	2.84E-05	5677	1.00	2.41E-08
879	-0.60	2.95E-03	3263	1.10	9.34E-10	5679	-0.80	5.36E-04
882	-1.10	3.02E-08	3266	0.70	1.80E-05	5680	0.60	2.73E-03
886	0.60	9.46E-03	3272	1.20	5.06E-08	5682	0.70	2.07E-04
888	-0.80	4.53E-04	3275	-0.70	1.76E-03	5684	1.50	2.87E-07
890	-0.60	5.05E-04	3276	-0.70	3.75E-05	5688	-1.40	1.04E-06
898	-1.10	7.47E-06	3277	-0.70	1.34E-04	5691	0.90	1.88E-06
900	1.00	8.83E-09	3281	-0.80	1.81E-03	5695	1.00	1.47E-03
901	-1.10	6.51E-10	3286	1.00	7.58E-09	5701	1.10	2.91E-05
905	0.50	9.03E-03	3310	0.90	5.76E-07	5703	1.30	2.68E-15
906	2.10	6.06E-10	3312	-0.80	7.12E-05	5704	1.40	1.39E-17
913	-0.70	1.64E-03	3313	-0.80	4.76E-05	5705	1.20	4.26E-12
919	1.50	5.13E-10	3317	1.30	2.91E-14	5707	-1.40	2.07E-09
928	1.30	2.04E-15	3321	1.10	1.09E-09	5708	-2.10	4.48E-08
934	-1.20	2.56E-10	3322	-1.90	4.66E-17	5710	0.90	6.79E-05
937	-1.50	4.63E-03	3325	-1.10	7.16E-03	5711	-0.90	7.49E-07
939	1.30	4.09E-13	3327	-0.90	3.57E-03	5713	1.30	3.75E-13
940	-0.60	9.09E-04	3329	1.00	4.48E-04	5715	-1.50	5.71E-05
945	0.50	1.77E-03	3334	-1.10	4.01E-05	5731	0.50	3.74E-03
949	-1.90	1.82E-19	3335	-0.90	6.14E-03	5737	-1.10	3.29E-06
951	-1.00	1.18E-04	3341	-1.50	5.23E-09	5739	0.40	1.56E-03
954	1.70	2.94E-24	3343	-0.60	6.09E-05	5741	-1.20	2.48E-13
957	0.90	3.24E-06	3352	1.00	2.32E-04	5742	-1.20	2.19E-13
958	0.90	2.53E-06	3353	1.00	2.30E-07	5746	0.60	2.65E-04
960	-0.50	3.81E-03	3357	-0.90	9.08E-06	5753	-1.10	7.10E-04
962	1.50	5.72E-16	3359	-1.20	1.28E-08	5754	1.30	1.86E-13
963	-1.80	1.53E-07	3367	0.80	1.10E-04	5755	-1.00	6.87E-04
964	1.80	1.37E-15	3371	1.90	1.98E-30	5756	1.90	3.87E-27
979	1.50	1.26E-16	3374	-0.90	7.11E-04	5758	0.90	1.39E-03
983	-1.10	8.70E-05	3379	-1.90	4.75E-05	5761	0.90	5.73E-07
984	1.20	3.57E-11	3385	0.60	1.35E-03	5762	0.90	3.76E-07
989	0.70	3.14E-04	3388	-0.90	1.15E-04	5763	1.60	1.97E-06
993	1.00	9.27E-09	3390	1.30	5.74E-07	5768	-0.70	8.48E-04
994	-1.40	3.51E-14	3391	0.60	2.43E-04	5772	1.20	4.55E-04

998	0.50	5.16E-03	3392	1.50	4.74E-13	5775	0.60	4.35E-04
1003	0.80	2.50E-05	3394	0.70	5.54E-04	5777	1.80	3.54E-11
1006	-1.70	4.22E-06	3395	1.80	7.83E-18	5781	0.90	1.64E-05
1009	-0.80	1.12E-05	3396	-1.10	6.03E-07	5785	-1.80	1.65E-08
1010	-0.90	1.55E-05	3407	1.10	4.97E-10	5788	-1.60	1.06E-09
1012	0.80	2.42E-04	3408	-0.60	1.36E-03	5796	-1.00	4.00E-08
1015	-0.50	7.55E-03	3417	0.80	1.07E-05	5798	-1.30	5.22E-10
1016	-1.60	1.68E-16	3418	0.60	2.93E-04	5800	-0.90	1.50E-07
1024	0.70	8.81E-03	3420	1.30	1.16E-13	5803	-1.40	2.48E-04
1031	-0.90	1.83E-03	3423	0.90	2.32E-06	5804	-0.80	3.63E-03
1033	1.20	9.09E-13	3431	1.50	3.96E-05	5806	-0.80	6.89E-03
1035	-1.10	1.98E-06	3432	1.50	4.15E-05	5808	1.10	4.13E-04
1037	-1.30	3.86E-07	3438	-0.70	2.24E-08	5815	-1.20	1.29E-05
1042	1.10	1.97E-10	3439	-1.40	1.49E-07	5816	-2.10	1.50E-05
1045	-1.20	1.49E-05	3440	-1.60	2.57E-04	5819	-1.40	1.23E-08
1049	-0.50	5.01E-03	3441	0.80	6.34E-03	5821	-1.30	1.88E-12
336								
1057	0.90	1.61E-08	3442	-1.30	1.03E-04	5822	-1.30	1.71E-04
1063	1.00	5.96E-09	3444	-1.20	5.57E-03	5823	-2.30	1.55E-08
1065	-0.60	3.72E-04	3445	1.20	2.33E-04	5824	-2.40	6.22E-09
1068	-1.40	3.11E-05	3448	1.10	3.26E-07	5825	-2.10	6.52E-12
1069	-1.40	3.13E-05	3450	-1.70	3.35E-04	5828	-1.00	1.02E-04
1072	0.60	1.59E-03	3457	-1.30	1.16E-06	5830	-1.20	1.63E-03
1074	1.20	2.46E-06	3460	-1.00	1.63E-03	5835	0.90	3.42E-06
1075	-1.20	1.34E-04	3466	0.70	1.17E-04	5838	-1.70	9.28E-22
1084	1.00	4.18E-07	3467	1.10	3.60E-11	5840	0.90	8.19E-08
1087	0.80	2.33E-06	3468	0.70	7.63E-05	5846	0.60	1.49E-03
1094	1.10	4.85E-08	3471	-1.10	8.50E-03	5849	-1.00	9.14E-03
1097	-0.80	6.34E-06	3479	-1.30	3.79E-06	5852	-0.90	9.69E-03
1098	-0.90	1.41E-05	3482	-0.70	6.52E-05	5856	1.30	3.44E-14
1100	-1.30	2.88E-06	3483	1.20	1.31E-05	5865	0.80	3.42E-03
1104	0.60	5.44E-03	3485	-2.00	5.87E-24	5868	1.50	5.99E-21
1110	-1.50	2.09E-16	3489	0.90	1.89E-06	5870	0.70	1.97E-04
1113	-0.50	3.72E-03	3490	1.10	6.60E-09	5872	0.60	6.13E-03
1121	-0.90	2.94E-05	3491	1.80	1.06E-27	5873	-0.90	1.07E-04
1128	-0.60	4.13E-03	3492	0.70	7.66E-05	5874	0.90	3.21E-07
1129	-0.70	2.65E-03	3497	-0.80	2.34E-04	5875	-1.90	3.32E-16
1138	-0.80	6.39E-04	3498	0.80	2.12E-05	5876	-0.70	1.12E-03

1140	1.00	2.43E-09	3503	-1.30	1.05E-05	5877	1.10	2.80E-10
1142	-1.00	1.12E-05	3506	-1.10	8.83E-06	5883	-1.00	4.17E-05
1148	1.00	9.51E-09	3510	-0.60	5.14E-03	5884	-0.90	8.08E-07
1151	0.50	7.49E-03	3511	1.00	1.76E-05	5887	-2.60	2.83E-11
1152	1.50	2.35E-09	3514	-1.50	1.48E-11	5890	-1.10	3.25E-06
1154	-1.10	4.55E-05	3515	1.40	1.96E-05	5896	0.60	5.17E-04
1157	-0.50	5.49E-03	3518	-1.80	6.13E-05	5897	-1.30	7.71E-12
1161	1.30	1.11E-14	3523	1.20	8.20E-11	5900	-1.30	5.57E-04
1162	0.90	1.35E-09	3531	-0.60	1.14E-03	5901	-1.20	9.40E-10
1163	1.50	1.31E-07	3533	-0.80	1.58E-03	5902	0.60	1.85E-03
1164	0.60	1.00E-03	3538	-0.70	1.21E-03	5903	1.10	4.25E-04
1165	0.60	1.21E-03	3539	1.30	2.25E-11	5904	0.70	1.09E-04
1167	0.90	1.14E-06	3540	-0.70	2.94E-04	5906	1.50	9.48E-17
1170	-1.10	1.11E-11	3548	-1.50	1.23E-03	5908	1.10	3.21E-05
1171	0.90	3.37E-07	3550	0.70	4.67E-05	5914	1.60	1.01E-18
1172	-0.70	9.14E-05	3554	0.70	3.72E-08	5916	0.70	1.99E-03
1183	1.10	2.44E-11	3557	-1.20	1.50E-03	5918	-0.80	7.94E-03
1185	1.30	2.53E-15	3558	-1.20	2.04E-10	5921	-1.30	3.88E-07
1186	1.10	2.42E-11	3559	-1.00	9.01E-03	5922	-1.40	2.60E-07
1187	1.00	8.48E-09	3563	-1.60	1.42E-05	5923	0.80	6.05E-05
1188	1.00	3.63E-09	3568	1.10	2.34E-11	5924	-0.90	3.26E-05
1189	-0.80	1.95E-03	3569	1.00	1.62E-08	5927	0.60	1.72E-03
1195	1.40	1.53E-14	3575	-1.20	3.58E-03	5929	-0.90	7.37E-05
1212	1.10	2.14E-04	3579	0.70	8.77E-07	5930	-1.70	3.83E-14
1213	1.40	8.92E-15	3586	0.70	2.89E-04	5931	1.10	4.32E-07
1214	0.90	1.93E-06	3587	0.90	4.05E-05	5942	0.90	3.14E-06
1222	-0.60	1.40E-03	3588	-0.60	1.64E-03	5945	0.50	6.93E-03
1226	-0.80	1.18E-04	3589	0.60	3.12E-03	5948	-0.70	2.92E-05
1229	-1.10	2.60E-08	3591	1.50	1.78E-07	5952	-0.80	6.13E-05
1230	1.30	4.84E-05	3593	-1.80	6.97E-18	5953	-0.90	9.28E-06
1231	0.70	1.84E-03	3594	1.50	8.79E-13	5955	1.50	4.10E-14
1237	-1.30	9.43E-08	3595	-1.50	3.78E-04	5956	-1.20	1.12E-03
1238	0.80	1.08E-06	3596	-0.50	2.86E-03	5957	-0.80	5.23E-04
1239	-1.50	8.98E-11	3599	0.70	1.48E-03	5958	0.80	9.87E-05
1241	1.30	2.83E-05	3601	-1.00	2.47E-05	5963	-1.00	1.20E-04
1244	1.90	1.26E-30	3602	0.90	2.54E-04	5966	1.30	5.58E-14
1251	1.20	1.00E-09	3606	0.80	6.65E-06	5968	-1.00	1.41E-08
1252	-1.50	2.40E-10	3609	-1.60	2.33E-03	5970	0.80	6.79E-06

1254	-0.70	4.84E-03	3613	1.50	3.36E-19	5971	1.80	9.06E-28
1255	0.80	1.39E-07	3614	-1.10	4.68E-06	5972	0.70	1.12E-04
1256	0.90	2.40E-06	3615	0.70	1.98E-04	5973	0.50	1.70E-03
1263	-0.70	9.87E-03	3617	1.60	1.77E-10	5975	0.70	1.53E-04
337								
1265	1.50	1.06E-14	3618	1.80	3.45E-24	5978	-0.60	5.03E-03
1266	-1.00	2.74E-07	3619	-0.90	5.78E-06	5979	1.20	1.24E-08
1267	0.70	5.21E-04	3621	-0.90	1.37E-03	5982	0.80	1.12E-05
1270	-0.70	2.25E-03	3625	1.00	2.85E-15	5986	1.00	2.24E-08
1272	-1.20	5.96E-05	3631	-0.70	3.95E-05	5989	0.50	1.44E-05
1276	-1.00	3.42E-04	3636	-1.10	1.10E-06	5990	-0.60	3.67E-03
1278	-0.80	7.24E-06	3647	-1.00	3.89E-06	5992	-0.70	2.21E-07
1281	0.90	3.69E-07	3649	0.60	3.33E-04	5993	-1.20	1.11E-05
1283	0.80	4.06E-04	3652	-1.90	1.15E-04	5994	0.60	4.34E-04
1287	-2.30	8.61E-21	3658	0.80	2.22E-04	5995	0.70	3.00E-04
1291	0.70	5.70E-05	3661	-1.20	9.73E-10	5996	0.60	7.84E-04
1294	0.70	2.96E-05	3667	0.80	2.18E-04	5997	0.60	6.56E-04
1297	-1.40	9.62E-05	3668	0.90	1.87E-07	5998	-0.70	2.10E-05
1299	-1.30	2.53E-05	3669	0.70	1.94E-05	6006	-0.70	5.14E-04
1303	0.50	1.15E-04	3673	1.10	3.86E-03	6015	-1.10	1.76E-08
1305	1.10	4.82E-10	3674	-0.90	9.38E-03	6016	-1.00	1.58E-07
1306	-1.50	7.12E-11	3683	-0.70	5.37E-04	6017	-1.60	5.28E-04
1307	-1.30	1.29E-06	3684	0.70	8.70E-05	6025	-1.80	3.21E-03
1308	-0.90	6.60E-04	3690	0.60	6.63E-04	6031	1.20	8.64E-14
1311	0.90	4.08E-04	3693	-1.10	1.04E-06	6033	-1.20	2.03E-06
1317	-0.80	1.29E-03	3695	-1.40	2.73E-05	6036	-1.50	6.20E-13
1319	0.60	5.78E-04	3700	1.40	1.71E-12	6046	1.10	4.11E-04
1320	-0.50	9.68E-03	3704	1.10	5.22E-09	6049	1.30	6.39E-06
1327	-0.80	9.32E-06	3706	-1.10	6.30E-08	6052	-1.00	1.35E-06
1329	-0.70	6.06E-05	3708	1.20	1.23E-11	6061	-1.60	1.40E-05
1332	1.30	1.95E-07	3710	0.50	9.12E-03	6067	0.80	2.06E-06
1333	0.90	1.88E-03	3713	1.20	4.70E-09	6068	1.50	4.03E-17
1339	-0.90	2.48E-06	3714	-0.70	1.62E-07	6069	-0.50	4.47E-04
1346	-1.20	1.16E-09	3715	0.50	5.52E-03	6071	0.90	1.83E-06
1350	-0.80	6.35E-04	3716	0.50	6.16E-03	6075	-0.50	3.62E-05
1351	-0.50	8.51E-03	3722	1.40	1.22E-15	6081	0.60	1.88E-03
1354	-1.60	3.36E-08	3723	-1.10	3.55E-03	6086	-1.70	3.49E-13
1357	0.90	2.73E-03	3726	0.50	8.48E-03	6087	-1.00	7.69E-08

1360	0.60	8.95E-04	3727	-0.80	5.94E-05	6088	-1.00	4.30E-08
1364	1.40	1.15E-17	3729	-1.60	1.36E-12	6089	-0.60	9.49E-04
1366	0.50	3.26E-03	3730	0.50	1.06E-03	6095	1.20	3.34E-04
1370	-3.00	2.27E-08	3734	0.60	2.21E-04	6100	0.90	2.19E-04
1373	0.90	1.91E-04	3735	-0.80	4.17E-03	6101	0.90	2.11E-04
1378	-0.80	9.59E-03	3736	1.20	1.08E-07	6102	-1.10	2.31E-07
1380	-2.50	1.49E-14	3740	-0.70	5.66E-04	6103	-1.20	7.76E-08
1385	-1.30	3.84E-11	3742	-1.00	4.09E-06	6104	-1.10	2.97E-10
1389	1.30	3.13E-06	3745	0.60	4.46E-04	6105	1.50	4.33E-18
1390	-2.30	2.97E-09	3749	-1.60	8.01E-14	6109	-0.70	7.24E-03
1393	-1.60	8.46E-18	3750	-0.60	1.19E-03	6110	-0.90	9.92E-04
1395	0.90	1.35E-06	3752	-1.20	5.63E-10	6111	-0.60	4.71E-03
1396	-1.30	6.81E-12	3753	-1.10	4.98E-07	6112	-0.90	5.21E-05
1397	1.20	1.29E-11	3757	0.60	5.85E-03	6117	-1.00	6.22E-07
1401	-1.70	1.09E-19	3759	-1.50	3.78E-12	6118	0.50	2.04E-03
1402	-0.70	4.73E-04	3760	1.40	2.32E-17	6125	-0.80	2.35E-04
1404	0.50	7.54E-03	3762	-1.10	2.15E-04	6127	-1.30	2.18E-05
1406	-1.80	4.79E-18	3763	1.10	3.86E-08	6131	0.40	2.46E-03
1409	0.50	5.90E-05	3765	-0.60	1.42E-03	6134	-0.70	6.30E-05
1410	-1.30	4.08E-11	3768	-2.10	2.05E-05	6136	-1.00	1.31E-07
1411	0.80	2.51E-04	3770	1.00	2.73E-09	6137	-1.00	1.79E-07
1415	-0.60	4.94E-04	3771	-1.10	5.85E-05	6141	0.80	6.88E-07
1424	0.80	1.01E-05	3772	-1.80	6.62E-11	6142	-0.90	8.02E-06
1427	0.80	6.93E-03	3776	-1.20	1.95E-10	6143	-0.90	6.34E-06
1429	-1.10	3.06E-10	3778	-0.60	1.27E-03	6148	-1.10	8.51E-03
1431	0.80	6.37E-06	3780	1.30	1.12E-15	6150	-1.30	2.35E-04
1433	0.90	3.87E-08	3788	-1.10	1.67E-07	6152	1.40	6.85E-15
1434	0.60	3.56E-04	3789	-1.50	1.51E-05	6154	-0.50	1.44E-04
1436	-1.20	1.83E-08	3792	-1.40	1.29E-07	6158	-0.80	9.26E-07
1438	0.80	6.29E-05	3793	-1.30	4.09E-10	6170	0.80	2.62E-04
338								
1439	1.10	1.33E-10	3796	-1.90	3.88E-10	6172	0.70	1.33E-04
1443	0.90	2.57E-08	3797	-1.90	3.20E-10	6175	0.50	4.39E-03
1444	1.00	1.49E-08	3798	-1.00	4.64E-04	6177	0.60	1.56E-03
1451	1.70	3.03E-16	3801	0.60	2.67E-03	6181	1.10	1.05E-10
1455	0.90	4.14E-04	3804	0.80	8.01E-06	6186	0.60	2.36E-03
1464	1.40	9.64E-17	3805	0.70	1.64E-04	6188	0.90	1.11E-03
1465	-0.60	1.31E-03	3808	-0.80	6.07E-05	6193	1.10	7.98E-04

1466	-1.10	1.54E-06	3810	-0.90	5.01E-07	6194	0.90	1.53E-03
1467	0.70	5.22E-05	3812	-0.70	6.18E-05	6195	-0.60	7.98E-04
1468	0.90	5.70E-07	3817	-0.60	1.48E-03	6197	1.10	4.21E-07
1472	-1.10	8.15E-09	3818	-0.90	7.57E-04	6198	1.10	4.41E-07
1475	-1.40	2.15E-13	3821	1.30	1.91E-05	6200	0.80	3.59E-03
1484	0.90	9.04E-03	3824	0.50	5.72E-03	6201	-0.50	4.70E-03
1491	1.10	1.63E-09	3825	0.80	1.02E-03	6204	-1.80	1.06E-10
1494	1.10	2.22E-04	3851	-0.80	3.31E-03	6214	1.30	5.22E-13
1498	-1.00	2.38E-07	3858	-0.50	7.64E-03	6219	1.20	6.54E-11
1500	0.50	9.20E-03	3859	-1.40	1.81E-17	6221	0.90	4.44E-05
1503	-0.50	8.38E-03	3862	1.20	3.54E-12	6225	0.70	2.45E-04
1505	1.40	1.09E-10	3864	-0.60	4.39E-04	6229	-1.00	5.44E-11
1507	1.70	3.39E-13	3865	-1.00	1.55E-06	6230	1.30	7.81E-15
1510	-0.90	5.24E-03	3866	0.80	5.85E-06	6235	-1.30	2.81E-03
1512	-1.70	1.74E-03	3873	-0.70	1.43E-03	6245	1.70	1.83E-24
1516	0.90	1.39E-03	3878	-1.60	1.17E-18	6246	-0.70	1.15E-03
1518	-0.60	3.50E-03	3879	-1.00	7.40E-06	6248	-1.20	1.85E-04
1521	-1.20	5.55E-03	3883	0.70	4.12E-05	6249	1.80	2.21E-27
1524	0.90	5.54E-06	3884	-1.70	3.11E-19	6250	-1.60	1.57E-19
1527	-0.50	6.89E-03	3886	1.70	1.21E-22	6253	-1.50	2.65E-16
1530	-1.60	1.97E-17	3887	-0.70	2.21E-03	6257	-1.50	9.23E-05
1533	0.60	1.17E-03	3891	-0.60	3.30E-03	6258	-1.90	1.99E-12
1548	-1.30	2.06E-14	3892	-0.60	3.04E-03	6261	0.60	2.08E-05
1552	0.90	3.49E-07	3895	-0.70	1.15E-04	6263	-0.90	2.10E-06
1554	0.70	6.91E-03	3900	-0.60	4.38E-04	6264	-0.80	2.55E-03
1558	1.40	3.78E-14	3902	-1.60	4.07E-13	6266	-1.80	3.48E-05
1560	0.60	5.55E-03	3904	-0.60	1.20E-03	6267	-1.80	3.33E-07
1571	-0.60	2.21E-03	3905	0.60	3.09E-03	6271	-1.90	1.19E-05
1572	-0.90	2.31E-03	3910	0.90	1.25E-08	6272	-1.00	2.91E-08
1573	0.90	9.91E-08	3914	-1.70	1.37E-20	6284	1.00	1.43E-07
1575	-1.00	1.90E-07	3915	0.50	1.02E-03	6285	1.10	7.25E-12
1580	1.10	5.15E-11	3916	0.50	7.06E-03	6291	0.70	5.77E-03
1581	1.10	7.79E-08	3917	1.10	4.22E-09	6294	-1.20	1.88E-10
1583	-1.10	1.64E-04	3918	-1.30	3.58E-07	6297	0.80	7.08E-06
1587	-1.40	3.74E-04	3922	-1.10	4.73E-11	6303	1.50	3.21E-16
1588	-0.70	1.18E-04	3924	0.50	1.39E-04	6304	1.50	6.29E-17
1596	-0.80	1.76E-05	3926	0.90	3.53E-07	6305	1.10	7.21E-08
1599	2.10	2.59E-32	3927	-1.10	9.26E-09	6307	-0.80	1.38E-04

1603	-0.70	8.79E-03	3928	-0.60	2.13E-03	6310	1.50	1.82E-19
1604	-0.60	6.70E-03	3929	1.10	7.80E-10	6321	1.20	2.28E-11
1607	-0.90	1.28E-03	3930	-1.40	2.27E-06	6325	0.70	8.81E-04
1612	0.80	5.80E-06	3937	-0.80	1.18E-06	6328	-0.70	1.02E-04
1614	1.40	3.39E-17	3938	1.10	4.63E-06	6329	-0.80	2.04E-04
1615	-1.40	1.94E-04	3940	0.90	2.35E-07	6330	-1.20	4.73E-08
1616	1.40	4.88E-14	3946	1.40	1.42E-16	6332	1.20	8.36E-06
1618	0.60	2.46E-03	3947	-1.10	3.98E-07	6333	0.90	1.56E-06
1620	-1.00	1.22E-07	3959	1.30	1.32E-07	6337	-1.80	1.13E-20
1621	-0.50	7.47E-03	3961	0.90	2.64E-06	6340	-1.10	2.38E-05
1622	1.30	7.60E-14	3965	0.80	1.23E-03	6345	0.70	2.72E-05
1623	-0.90	1.83E-08	3969	-0.70	2.15E-03	6348	0.70	7.16E-05
1625	1.70	3.01E-22	3971	0.80	1.05E-04	6352	-2.10	4.05E-08
1628	-1.10	2.85E-06	3972	1.70	6.36E-18	6356	0.60	4.42E-04
1629	-1.10	2.88E-06	3978	-0.50	5.96E-03	6358	1.10	7.96E-11
1630	-0.60	1.81E-03	3983	0.90	1.35E-07	6359	-1.00	1.09E-05
1635	-0.90	3.73E-08	3985	-1.20	6.99E-03	6360	-1.90	2.62E-05
1636	-2.20	3.60E-07	4011	1.10	9.88E-10	6361	0.70	1.20E-04
339								
1637	0.90	2.44E-07	4012	0.50	9.66E-03	6365	-0.70	4.80E-05
1639	0.70	3.04E-04	4014	-0.60	1.38E-03	6366	-1.10	2.02E-06
1640	-1.70	2.08E-10	4015	1.00	1.03E-08	6373	1.50	4.98E-17
1642	1.40	1.36E-14	4017	-1.20	3.75E-08	6375	1.20	5.51E-10
1643	1.20	2.09E-08	4021	1.60	4.13E-08	6376	1.10	9.17E-10
1644	-1.10	3.36E-05	4022	-1.10	1.45E-05	6377	1.50	2.18E-12
1650	-0.90	3.67E-05	4025	1.70	2.66E-21	6379	-0.60	3.98E-03
1652	0.60	9.37E-04	4027	1.30	1.95E-14	6381	-1.50	8.85E-20
1653	1.70	1.73E-22	4028	-1.50	9.92E-05	6382	-0.60	4.48E-04
1659	1.00	2.04E-03	4031	-1.40	1.21E-03	6385	-0.50	4.57E-03
1661	-0.80	3.81E-04	4032	0.50	5.49E-03	6394	0.80	4.95E-06
1662	-1.60	2.16E-05	4035	-0.90	1.31E-05	6398	-1.80	2.51E-11
1663	-1.60	1.68E-07	4039	0.50	3.67E-03	6402	-1.10	1.38E-04
1664	-0.50	2.20E-03	4041	-0.80	2.19E-03	6408	1.10	9.78E-10
1677	1.60	3.03E-21	4044	-1.40	6.82E-08	6411	-1.00	4.23E-07
1681	1.50	2.44E-17	4045	1.00	2.72E-08	6415	-1.50	2.00E-13
1684	0.60	3.12E-03	4051	-1.60	1.82E-20	6416	0.90	6.58E-07
1686	1.20	6.94E-11	4052	-1.90	7.71E-22	6417	1.10	6.50E-08
1691	0.50	4.49E-03	4053	0.70	2.33E-04	6420	-1.00	2.78E-08

1692	0.80	5.92E-03	4056	0.80	1.43E-05	6431	-2.10	7.50E-04
1696	-1.70	3.74E-04	4060	1.00	3.42E-09	6433	-0.50	2.80E-03
1699	0.80	8.38E-03	4061	1.00	7.09E-09	6434	1.10	1.05E-08
1702	1.00	3.16E-05	4065	-1.30	5.26E-03	6436	1.30	2.78E-14
1710	-1.10	2.62E-08	4068	1.20	1.01E-03	6437	0.70	1.86E-03
1722	0.70	5.93E-05	4070	-1.00	4.11E-08	6438	0.90	8.02E-09
1730	1.30	2.88E-14	4075	-1.00	2.06E-07	6440	0.50	5.98E-03
1731	-1.30	3.64E-12	4076	-1.40	2.20E-06	6452	-0.90	3.20E-05
1737	0.70	2.95E-03	4079	1.20	2.54E-08	6459	0.70	1.19E-04
1740	-0.70	1.56E-03	4081	0.70	3.30E-05	6461	-1.50	3.45E-09
1741	1.20	8.46E-11	4084	1.60	5.28E-16	6463	-0.90	7.67E-07
1743	-3.00	7.69E-10	4088	-1.10	6.82E-08	6464	-0.70	4.61E-04
1744	1.10	2.44E-07	4090	-0.70	3.98E-04	6468	-1.00	1.38E-03
1745	1.10	9.59E-08	4096	1.30	6.75E-09	6469	0.60	1.38E-03
1751	1.50	5.24E-22	4097	-1.30	9.04E-12	6471	1.20	9.82E-06
1752	1.90	2.68E-26	4098	-0.90	5.27E-06	6473	-0.70	3.00E-03
1755	0.70	2.05E-04	4100	0.90	2.05E-06	6477	1.00	2.07E-04
1757	-0.90	1.16E-03	4106	-0.70	1.97E-04	6480	-0.80	2.19E-03
1758	1.10	5.42E-04	4115	0.90	1.08E-07	6483	-0.50	9.56E-03
1760	0.60	1.23E-03	4120	-1.40	1.38E-12	6485	-1.60	8.24E-10
1763	0.50	3.93E-03	4121	-1.30	9.54E-09	6487	0.50	8.23E-03
1764	-1.00	7.36E-08	4122	-0.50	7.25E-03	6493	-2.30	3.47E-05
1772	-1.20	3.08E-03	4126	-0.90	2.26E-03	6498	-1.20	1.06E-10
1773	-1.20	2.73E-03	4130	-0.70	1.43E-04	6505	-1.00	3.34E-07
1776	-0.70	5.82E-04	4131	-0.90	9.66E-03	6515	1.40	2.10E-06
1778	-0.80	2.53E-03	4133	0.50	8.12E-05	6521	-0.60	4.01E-03
1779	0.50	6.17E-03	4134	-1.40	6.82E-13	6523	-1.10	2.15E-13
1780	1.30	3.89E-15	4135	-0.80	4.85E-04	6530	-0.60	2.17E-04
1781	0.80	3.33E-04	4155	1.30	2.22E-14	6531	1.30	2.89E-08
1782	0.80	3.33E-04	4156	1.10	2.82E-10	6532	-1.30	2.43E-05
1784	1.60	9.44E-09	4159	1.10	1.06E-08	6535	-0.80	2.26E-06
1788	-1.00	5.65E-07	4164	0.70	1.46E-04	6540	-1.50	8.23E-12
1790	-1.10	6.62E-16	4165	-1.50	9.22E-12	6544	0.90	1.97E-07
1792	1.00	1.26E-05	4166	-1.80	8.31E-18	6545	0.60	1.64E-03
1794	0.80	1.54E-05	4167	0.80	8.93E-04	6548	-0.70	2.88E-04
1798	0.90	1.06E-05	4169	-0.70	8.92E-03	6549	-0.80	1.01E-04
1799	0.80	5.04E-06	4170	1.20	7.17E-11	6550	-0.60	3.12E-04
1803	-1.40	2.52E-06	4179	-0.50	5.40E-03	6551	-1.40	4.10E-05

1804	-1.50	3.26E-04	4187	1.10	1.48E-06	6555	0.90	4.70E-06
1805	-0.90	8.96E-05	4188	-0.60	7.89E-04	6557	0.40	2.76E-03
1806	1.00	1.97E-03	4194	-1.50	5.95E-11	6561	-1.40	6.55E-03
1815	-1.30	1.23E-03	4196	1.30	9.84E-10	6564	1.20	1.68E-06
1816	1.00	6.84E-04	4198	-0.70	2.67E-03	6565	0.90	4.30E-08
1820	-1.40	3.51E-07	4202	1.40	1.29E-16	6566	-0.90	3.00E-03
340								
1825	-1.00	2.57E-08	4204	-1.00	9.43E-08	6568	-1.30	4.40E-15
1827	-1.20	5.10E-14	4205	0.60	2.44E-04	6571	-2.00	6.33E-07
1837	0.90	5.50E-07	4209	-0.90	8.88E-03	6576	1.40	6.31E-07
1843	-1.20	3.60E-05	4212	-0.80	1.66E-04	6580	-1.10	9.06E-06
1846	-1.40	1.29E-04	4214	-2.50	4.52E-09	6582	1.10	3.79E-09
1847	-1.20	1.72E-06	4219	1.10	4.33E-05	6587	0.50	9.67E-04
1849	0.60	2.31E-03	4231	0.70	5.00E-05	6591	0.70	4.32E-04
1851	-0.60	1.33E-03	4234	-2.40	2.88E-20	6596	-0.60	2.67E-03
1853	1.10	3.32E-04	4235	1.50	4.02E-05	6597	1.30	2.37E-05
1858	-0.90	4.13E-07	4236	1.40	2.61E-07	6598	1.30	2.24E-05
1862	-1.40	1.82E-13	4238	-0.60	3.10E-03	6600	0.70	1.09E-03
1864	-1.30	1.12E-07	4239	-1.20	2.42E-03	6601	-1.50	3.55E-08
1867	-1.20	2.12E-04	4241	0.80	6.64E-03	6603	-1.10	1.16E-03
1869	1.80	2.74E-24	4242	0.60	1.10E-03	6606	1.50	2.37E-07
1870	-1.10	2.83E-03	4244	-0.70	9.22E-04	6615	0.90	3.89E-07
1871	-0.80	1.75E-05	4245	-1.30	3.85E-08	6617	1.40	1.25E-05
1875	-1.50	3.20E-06	4246	-1.40	1.40E-12	6619	-1.00	1.17E-07
1876	1.20	1.05E-10	4248	-4.10	5.87E-08	6626	-1.30	1.15E-10
1879	-1.30	7.15E-08	4250	-1.60	3.53E-04	6630	-0.80	2.27E-03
1884	-1.50	2.72E-12	4259	0.70	4.07E-04	6633	-0.60	4.85E-03
1889	-0.70	1.18E-04	4261	-0.80	1.83E-06	6635	-1.20	5.57E-05
1890	1.50	8.65E-13	4265	1.60	1.74E-14	6637	0.50	7.38E-03
1893	1.10	4.37E-07	4266	-2.00	4.92E-07	6639	1.30	1.70E-14
1896	0.70	3.71E-04	4268	-0.90	1.58E-07	6640	-0.60	1.79E-03
1900	0.80	3.30E-03	4270	-0.70	7.59E-05	6643	1.20	1.66E-13
1904	0.50	4.00E-03	4271	-1.50	2.24E-04	6648	-1.10	3.90E-04
1907	-0.70	1.06E-03	4272	0.90	1.04E-07	6658	-0.70	1.91E-04
1918	0.70	4.76E-05	4276	-1.40	3.12E-10	6659	1.50	7.81E-21
1920	0.60	5.40E-03	4277	-0.90	1.08E-05	6660	-1.70	8.16E-13
1922	-0.90	3.90E-07	4278	-0.90	1.49E-06	6669	0.90	5.43E-06
1924	-1.10	6.48E-06	4279	-0.70	7.27E-05	6671	-0.90	1.59E-06

1926	0.80	3.52E-06	4285	0.50	4.51E-03	6672	-0.70	7.73E-05
1928	-1.70	2.75E-17	4289	0.70	2.59E-04	6676	-1.40	6.18E-10
1929	1.20	1.74E-12	4297	1.40	6.74E-17	6678	1.10	3.18E-05
1930	1.20	1.41E-12	4298	-0.80	2.20E-04	6681	0.90	7.41E-07
1931	1.00	2.57E-04	4299	-1.40	6.46E-10	6683	-1.10	2.33E-08
1932	-0.90	9.98E-03	4301	-1.70	1.46E-09	6684	1.20	5.22E-08
1933	0.60	1.78E-03	4304	1.30	1.45E-05	6689	-0.60	8.33E-03
1934	0.90	1.81E-03	4308	-1.00	5.97E-04	6690	-1.20	1.06E-05
1938	-1.20	7.45E-09	4313	1.00	2.60E-08	6693	-1.50	5.79E-04
1939	1.60	2.36E-24	4314	0.60	1.33E-04	6694	-1.60	2.61E-04
1941	1.60	3.03E-17	4315	-0.60	4.28E-03	6695	-1.50	5.01E-04
1944	0.60	5.20E-05	4317	-0.70	1.09E-03	6697	1.10	1.55E-10
1950	-1.00	9.89E-03	4319	-0.90	4.68E-05	6699	-1.00	3.80E-03
1971	-0.80	1.54E-06	4329	-1.10	8.88E-03	6701	-1.30	5.51E-05
1974	-1.30	1.51E-11	4331	-0.50	5.95E-03	6703	-0.90	3.10E-05
1978	-1.10	4.46E-04	4332	-0.80	2.97E-05	6706	-0.90	9.13E-06
1980	1.10	2.81E-07	4333	-1.70	7.70E-08	6709	1.00	1.72E-08
1981	1.20	5.27E-11	4334	2.10	4.48E-33	6711	-1.40	8.64E-04
1985	-0.60	3.29E-03	4335	1.40	7.03E-11	6714	-1.40	3.91E-16
1988	-0.90	1.10E-04	4342	-0.80	1.88E-04	6718	-1.30	8.21E-06
1989	0.60	2.47E-03	4344	0.80	2.07E-03	6721	1.00	1.39E-03
1990	-1.50	1.01E-05	4345	0.80	4.23E-05	6722	-1.30	7.28E-10
1996	1.40	4.65E-10	4351	-0.60	1.76E-03	6724	1.60	3.18E-14
1997	1.20	8.50E-04	4352	0.80	6.90E-06	6726	-0.70	1.38E-03
1999	1.10	2.26E-13	4354	1.30	7.66E-14	6727	1.30	1.28E-08
2002	-2.70	5.08E-07	4358	1.50	8.96E-06	6735	1.30	2.09E-07
2004	1.30	2.09E-07	4362	-1.10	1.32E-06	6741	0.80	6.84E-03
2005	-1.50	1.87E-03	4366	1.00	1.43E-03	6743	-0.80	2.91E-03
2009	-0.70	6.21E-05	4371	0.80	4.92E-04	6749	-1.70	2.14E-09
2010	0.70	5.15E-05	4374	-0.70	4.01E-04	6751	-1.00	3.50E-05
2013	-0.50	8.60E-03	4386	-0.50	6.76E-03	6754	0.80	1.72E-05
2015	-1.00	6.15E-03	4387	-0.90	9.25E-06	6755	1.20	4.57E-11
341								
2017	-0.80	8.94E-05	4395	0.60	8.13E-04	6757	-1.70	1.84E-10
2018	0.90	9.28E-07	4396	0.90	4.37E-08	6762	-1.00	1.60E-08
2019	0.90	7.39E-07	4398	-1.10	2.97E-08	6763	0.90	7.72E-05
2024	0.60	2.53E-03	4399	0.90	1.88E-03	6765	0.60	8.90E-05
2030	0.60	8.32E-04	4400	-1.00	9.29E-05	6766	-0.80	2.30E-07

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4492	-0.80	7.96E-04
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4524	0.80	6.62E-03
4525	-1.50	5.50E-09
4528	-1.30	1.49E-05

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6465	0.02	5.00E-02
6746	0.04	5.00E-02
6759	0.03	5.00E-02
6841	-0.12	5.00E-02
6897	1.02	5.00E-02
8049	0.02	5.00E-02
8126	0.02	5.00E-02
8475	-0.09	5.00E-02
8671	0.03	5.00E-02
8696	0.03	5.00E-02
8827	0.08	5.00E-02
9036	0.03	5.00E-02
9331	-0.24	5.00E-02
10063	0.26	5.00E-02
10154	-0.02	5.00E-02
10525	-0.90	5.00E-02
10534	0.04	5.00E-02
10573	-0.25	5.00E-02
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10620	-0.05	5.00E-02
10925	0.17	5.00E-02
11081	0.06	5.00E-02
11125	0.09	5.00E-02
11215	0.16	5.00E-02
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11364	-0.03	5.00E-02

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0.12	0.12
0.11	0.11
-0.08	-0.08
0.08	0.08
0.11	0.11
0.07	0.07
-0.08	-0.08
0.15	0.15
-0.13	-0.13
0.08	0.08
-0.08	-0.08
-0.18	-0.18
-0.07	-0.07
0.08	0.08
0.15	0.15
-0.21	-0.21
0.17	0.17
-0.16	-0.16
0.13	0.13
0.08	0.08
-0.18	-0.18
-0.08	-0.08
-0.10	-0.10
0.09	0.09
-0.13	-0.13
0.14	0.14
0.11	0.11

-0.20	-0.20
0.15	0.15
0.15	0.15
0.09	0.09
0.17	0.17
-0.11	-0.11
-0.11	-0.11
0.12	0.12
-0.17	-0.17
-0.15	-0.15
-0.23	-0.23
0.07	0.07
0.11	0.11
0.08	0.08
0.13	0.13
-0.21	-0.21
-0.26	-0.26
-0.14	-0.14
-0.12	-0.12
0.09	0.09
0.12	0.12
0.08	0.08
-0.15	-0.15
0.14	0.14
0.12	0.12
-0.07	-0.07
-0.16	-0.16
-0.18	-0.18
0.12	0.12
-0.13	-0.13
-0.09	-0.09
-0.10	-0.10
-0.08	-0.08
0.12	0.12
-0.11	-0.11
-0.16	-0.16
-0.19	-0.19
-0.19	-0.19

0.11	0.11
-0.15	-0.15
-0.11	-0.11
-0.23	-0.23
0.13	0.13
-0.11	-0.11
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0.12	0.12
-0.17	-0.17
0.15	0.15
-0.13	-0.13
-0.27	-0.27
0.07	0.07
-0.25	-0.25
-0.07	-0.07
0.09	0.09
-0.16	-0.16
-0.17	-0.17
0.14	0.14
0.12	0.12
0.12	0.12
0.09	0.09
0.10	0.10
0.12	0.12
0.07	0.07
0.11	0.11
0.16	0.16
-0.18	-0.18
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0.10	0.10
0.10	0.10
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-0.15	-0.15
-0.33	-0.33
-0.09	-0.09
-0.15	-0.15
-0.37	-0.37

-0.07	-0.07
-0.13	-0.13
-0.15	-0.15
-0.09	-0.09
-0.09	-0.09
-0.16	-0.16
-0.24	-0.24
0.07	0.07
-0.18	-0.18
-0.11	-0.11
0.10	0.10
-0.12	-0.12
0.13	0.13
-0.12	-0.12
0.13	0.13
-0.07	-0.07
0.08	0.08
-0.08	-0.08
0.07	0.07
-0.17	-0.17
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0.08	0.08
-0.14	-0.14
-0.14	-0.14
-0.13	-0.13
0.13	0.13
0.09	0.09
-0.18	-0.18
-0.22	-0.22
0.11	0.11
0.10	0.10
-0.21	-0.21
0.17	0.17
0.19	0.19
0.15	0.15
-0.15	-0.15
-0.15	-0.15
-0.16	-0.16

0.14	0.14
0.12	0.12
0.07	0.07
-0.13	-0.13
-0.09	-0.09
0.08	0.08

TABLE 8 - GENETIC MARKERS FOR MILK VOLUME

A	B	C	A	B	C
2	329	7.79E-06	220	-176	1.28E-07
3	107	9.04E-04	221	-228	1.76E-10
4	234	1.50E-04	222	-111	1.12E-03
5	-144	1.35E-03	225	165	1.45E-06
6	-205	1.69E-04	226	-236	4.38E-04
13	126	9.20E-04	231	-222	8.53E-08
15	224	4.56E-06	238	-208	5.37E-07
16	157	1.70E-05	242	102	1.01E-03
22	-207	3.25E-10	246	-221	1.35E-05
35	-218	4.89E-12	249	-125	1.87E-04
36	-272	1.10E-08	251	179	2.37E-09
38	-431	9.37E-12	255	323	6.76E-05
39	-543	1.51E-14	257	144	1.16E-04
46	-132	7.20E-04	258	-114	9.24E-04
50	-219	3.74E-04	259	329	7.94E-05
52	-190	1.07E-08	262	-135	2.71E-05
56	-115	1.39E-03	263	-146	2.00E-03
63	-202	2.21E-10	264	160	2.58E-03
65	-143	4.19E-03	265	-153	8.21E-05
66	-218	4.31E-11	270	102	4.93E-04
67	164	4.32E-07	282	203	9.00E-10
71	-228	2.79E-08	287	163	5.08E-06
75	-98	1.57E-03	288	165	3.70E-06
77	-275	1.86E-17	291	105	1.77E-03
83	-152	1.43E-04	299	150	4.51E-03
85	209	9.21E-03	300	139	5.91E-05
97	-239	4.57E-14	305	217	2.77E-11
99	224	3.56E-13	307	84	9.08E-03
101	-245	1.30E-14	308	166	2.97E-05
106	143	1.53E-05	312	-145	1.60E-05
114	-154	3.29E-05	318	-227	1.17E-12
120	-231	5.86E-07	321	175	6.74E-04
126	164	5.04E-03	323	-153	4.63E-03
131	161	3.64E-07	326	104	1.49E-03
133	330	1.35E-14	327	-138	2.48E-04
137	-133	1.23E-04	328	-233	1.59E-07
141	-84	9.22E-03	330	-276	8.65E-09
143	138	6.14E-04	331	-175	1.87E-07
145	161	2.43E-05	333	149	2.03E-06
152	242	3.57E-08	334	111	1.32E-03

153	-128	2.16E-03	335	-166	9.01E-05
154	-255	7.35E-07	336	-306	5.12E-21
159	-186	1.45E-06	337	174	1.17E-07
162	-244	2.89E-04	343	-306	7.18E-05
167	-88	9.78E-03	345	-257	3.07E-09
168	212	8.28E-11	347	-93	8.23E-03
171	134	3.84E-05	353	105	5.76E-03
172	217	3.12E-03	354	-361	4.49E-15
176	-343	5.24E-23	363	-194	9.08E-03
177	249	1.56E-11	368	71	3.92E-03
181	112	3.33E-04	369	235	3.39E-07
185	174	5.97E-06	372	-269	6.81E-07
186	108	2.52E-03	373	269	1.53E-04
191	-189	2.76E-08	376	-291	1.08E-08
194	253	1.03E-14	377	-396	1.03E-08
200	-174	8.18E-07	381	116	4.36E-04
201	-136	1.38E-04	390	-192	9.50E-07
211	115	1.03E-03	391	159	4.09E-03
215	-275	1.77E-07	393	254	8.73E-11
217	276	4.51E-10	394	-186	9.69E-08
219	167	5.02E-07	395	-229	2.68E-12
206					
2444	-166	1.00E-05	396	-192	3.30E-06
2446	339	1.04E-21	404	251	1.21E-09
2447	-127	1.33E-04	407	-116	9.43E-04
2455	-307	5.26E-03	4075	-171	2.17E-07
2456	168	8.56E-05	4076	-207	2.03E-04
2465	-243	1.61E-15	4081	120	1.51E-04
2466	-128	8.15E-05	4084	259	2.88E-10
2470	-272	1.08E-07	4088	-272	6.02E-16
2471	340	8.38E-24	4090	-121	4.28E-04
2472	-143	1.26E-04	4091	-258	1.52E-03
2476	168	2.24E-07	4096	180	1.18E-05
2479	141	8.65E-10	4097	-171	2.99E-07
2480	129	5.11E-08	4100	142	3.39E-05
2483	245	9.11E-12	4106	-130	7.21E-05
2484	285	5.86E-18	4115	148	1.10E-05
2485	292	3.00E-20	4119	160	2.60E-03
2486	156	1.88E-06	4120	-208	4.68E-07
2489	146	6.65E-05	4121	-301	3.67E-13
2490	-222	3.79E-03	4128	120	1.65E-03
2491	267	7.04E-19	4130	-127	1.01E-04
2492	-212	1.08E-04	4134	-267	2.04E-14

2495	90	8.59E-03
2499	160	1.45E-05
2501	-129	3.00E-08
2505	-110	6.49E-04
2510	-324	4.56E-04
2511	137	1.56E-03
2515	172	8.86E-04
2516	-145	1.09E-03
2518	145	1.55E-05
2521	172	3.05E-05
2522	-273	2.46E-17
2523	-278	1.84E-17
2527	140	2.34E-05
2532	-229	3.60E-10
2534	175	1.70E-03
2535	274	2.85E-08
2540	98	2.06E-03
2550	-319	4.89E-07
2559	-284	8.08E-04
2568	102	4.10E-03
2570	162	2.20E-03
2571	-217	3.73E-08
2575	274	3.08E-04
2577	-186	2.16E-03
2578	-281	8.22E-07
2580	166	2.28E-05
2582	-109	1.01E-03
2584	91	7.14E-03
2587	-184	1.27E-06
2590	230	1.40E-04
2591	-161	8.18E-06
2595	255	1.82E-16
2596	-137	4.96E-03
2597	196	1.74E-03
2604	-236	1.00E-08
2607	-117	3.87E-03
2608	210	6.31E-10
2611	-257	5.42E-07
2612	-159	1.97E-06
2613	-192	8.40E-07
2614	110	5.80E-03
2617	-235	2.76E-07
207		

4137	163	8.27E-04
4155	215	6.65E-10
4156	142	3.89E-05
4159	172	5.22E-06
4162	-145	8.80E-04
4165	-245	1.48E-10
4166	-278	3.76E-16
4167	192	4.92E-05
4169	-163	7.67E-04
4170	127	3.65E-04
4180	-88	8.58E-03
4181	-93	6.29E-03
4182	106	4.67E-03
4187	202	2.41E-06
4188	-143	3.35E-05
4194	-198	1.52E-07
4196	239	8.31E-09
4198	-97	8.04E-03
4202	270	1.36E-16
4203	89	5.98E-03
4210	-110	1.66E-03
4211	136	3.69E-04
4212	-171	1.19E-06
4214	-352	1.41E-09
4215	189	5.63E-09
4217	108	5.70E-04
4219	229	2.09E-05
4231	149	9.44E-06
4232	129	4.22E-04
4234	-320	1.60E-15
4236	343	4.12E-12
4241	210	3.66E-04
4242	122	1.74E-04
4245	-210	3.12E-07
4246	-292	3.13E-17
4248	-523	5.16E-08
4250	-266	6.80E-04
4259	224	4.26E-09
4261	-166	3.19E-07
4264	-167	3.14E-04
4265	267	4.82E-10
4266	-292	7.83E-05

2619	181	1.36E-04	4268	-175	2.87E-08
2620	130	3.03E-06	4270	-136	4.33E-05
2622	133	7.03E-05	4271	-202	8.18E-03
2624	116	4.02E-04	4276	-222	1.26E-08
2633	-332	1.58E-07	4277	-113	2.57E-03
2638	-194	7.99E-03	4278	-221	2.39E-11
2639	142	1.13E-04	4284	-126	3.25E-03
2640	286	3.46E-05	4297	241	5.70E-13
2642	89	7.87E-03	4299	-324	2.18E-18
2645	-192	4.95E-04	4301	-258	1.49E-08
2649	-141	1.60E-05	4304	188	1.83E-03
2650	148	6.00E-06	4313	177	2.21E-08
2657	146	1.55E-04	4314	181	1.02E-09
2667	206	1.10E-04	4315	-96	7.32E-03
2668	-189	1.09E-08	4317	-125	1.02E-03
2670	-236	7.94E-06	4319	-129	5.50E-04
2673	111	9.37E-03	4321	-249	8.90E-07
2682	196	6.91E-03	4326	-124	4.92E-03
2686	232	3.16E-07	4327	104	5.60E-03
2687	137	1.43E-04	4331	-153	8.80E-06
2688	-259	2.21E-15	4332	-119	3.55E-04
2693	156	1.88E-05	4333	-214	3.03E-05
2694	198	5.27E-04	4334	359	2.10E-32
2696	187	3.84E-08	4335	256	1.73E-07
2702	148	9.80E-04	4336	95	5.59E-03
2703	-287	8.28E-08	4342	-203	2.10E-07
2705	-241	1.08E-13	4343	95	7.72E-03
2707	-158	1.69E-05	4350	125	4.82E-05
2714	-397	9.74E-09	4351	-99	3.67E-03
2722	-109	1.01E-03	4352	191	3.20E-09
2726	157	1.08E-03	4354	223	1.42E-11
2730	-306	2.01E-06	4357	-158	1.81E-04
2731	-300	2.80E-06	4358	243	8.73E-04
2735	272	1.71E-16	4362	-251	1.14E-09
2736	93	4.42E-03	4374	-177	1.86E-07
2737	-283	4.65E-04	4382	-92	9.46E-03
2740	106	1.40E-03	4385	194	5.90E-10
2742	-221	2.55E-04	4386	-100	2.16E-03
2743	148	2.29E-04	4396	175	4.18E-08
2746	154	5.34E-10	4398	-195	2.89E-08
2752	-202	3.62E-04	4400	-335	1.08E-12
2754	323	5.65E-27	4401	-415	1.74E-22
2756	-239	2.68E-13	4405	-267	1.69E-06

2760	-325	8.87E-22	4409	-98	1.27E-03
2761	-321	2.01E-21	4415	-121	2.63E-04
2772	-141	9.35E-05	4418	-169	1.79E-03
2774	160	1.18E-03	4419	-224	3.98E-05
2778	118	4.24E-04	4420	-117	1.76E-03
2781	249	1.80E-10	4425	161	8.28E-07
2782	162	1.86E-12	4426	-219	7.84E-07
2786	160	1.02E-06	4430	140	3.27E-05
2788	180	6.19E-05	4435	-181	3.20E-03
2789	148	5.06E-03	4441	-108	9.30E-04
2791	110	7.55E-03	4446	-377	1.04E-18
2793	-145	4.08E-05	4447	-120	6.70E-05
2796	107	8.35E-04	4453	-121	5.77E-05
2816	-185	1.49E-03	4454	94	5.15E-03
2817	-134	5.26E-03	4455	-166	3.16E-07
2820	-259	2.36E-09	4457	-235	6.45E-04
2821	-176	6.79E-09	4458	-111	7.36E-04
2822	-202	3.35E-09	4471	-264	8.75E-03
2824	89	8.87E-03	4476	-129	7.26E-05
2828	230	1.38E-09	4478	-250	1.29E-09
208					
2829	-396	3.28E-19	4484	-252	6.30E-03
2830	-414	3.65E-22	4485	-235	1.19E-13
2832	157	3.69E-05	4486	342	4.27E-07
2833	-117	9.65E-03	4487	222	3.34E-13
2838	-309	7.23E-18	4493	-205	5.38E-07
2843	176	5.91E-08	4501	130	4.73E-04
2844	-264	1.59E-05	4502	214	8.63E-10
2845	-261	7.95E-05	4503	86	7.27E-03
2848	-244	1.36E-13	4505	368	1.96E-31
2850	-226	2.45E-05	4507	-108	2.38E-03
2857	-171	1.21E-03	4512	-99	5.03E-03
2867	-250	4.30E-06	4515	136	1.96E-05
2872	198	5.55E-09	4517	106	1.76E-03
2874	-212	1.23E-06	4523	147	9.09E-06
2878	-168	8.76E-08	4525	-173	1.21E-04
2882	108	1.68E-03	4528	-301	1.15E-09
2888	-187	5.26E-09	4529	-415	6.30E-06
2890	292	1.42E-22	4531	107	2.78E-03
2891	116	6.85E-04	4536	104	2.31E-03
2892	-190	9.33E-03	4542	339	5.03E-27
2896	-169	9.01E-05	4544	-131	3.59E-05
2897	-202	8.47E-04	4549	335	3.15E-09

2898	-223	2.69E-04	4562	-129	6.39E-05
2900	154	5.36E-04	4565	168	1.57E-04
2901	-280	4.01E-12	4567	-300	4.26E-10
2907	-145	3.35E-05	4568	-84	1.52E-03
2914	206	5.92E-08	4578	209	3.03E-11
2922	238	1.23E-06	4580	-217	5.28E-07
2924	269	3.64E-14	4581	335	3.37E-26
2941	-257	2.71E-10	4582	153	1.17E-06
2946	194	1.76E-08	4583	263	2.78E-14
2954	-117	7.91E-07	4585	-149	9.19E-03
2955	-340	1.77E-09	4586	-102	2.08E-03
2959	-265	6.20E-15	4591	-360	1.51E-04
2968	-131	3.35E-04	4602	282	2.76E-19
2970	-165	5.15E-04	4604	137	4.48E-03
2971	-265	2.20E-14	4606	-194	1.14E-09
2974	-327	4.92E-10	4607	-189	2.81E-09
2976	-262	1.61E-04	4608	-238	3.61E-11
2980	-317	8.03E-05	4610	103	4.88E-03
2995	88	6.74E-03	4612	-290	1.31E-05
2996	114	4.83E-04	4614	-101	1.70E-03
2997	102	3.87E-04	4615	-234	4.62E-05
2998	-256	5.01E-09	4616	-214	4.55E-10
3003	131	9.30E-03	4619	-205	4.55E-09
3004	97	2.00E-04	4622	-309	1.76E-21
3006	138	1.54E-05	4623	-170	8.56E-07
3008	144	9.53E-04	4627	-227	1.85E-06
3021	194	5.00E-06	4629	271	3.30E-16
3026	-166	8.58E-07	4634	-368	9.70E-18
3027	-325	9.35E-08	4643	98	3.99E-03
3029	-211	1.85E-03	4647	147	6.14E-04
3031	140	5.53E-03	4651	353	1.98E-20
3033	-320	9.84E-07	4654	-247	1.18E-08
3034	172	5.65E-05	4662	-135	9.09E-04
3036	94	6.69E-03	4664	354	1.35E-28
3037	-187	3.50E-08	4669	-145	3.13E-04
3039	126	1.14E-03	4670	-261	5.77E-10
3040	-107	5.84E-04	4671	-184	1.02E-06
3042	112	6.60E-03	4675	196	6.13E-10
3044	-310	1.49E-10	4677	-176	2.34E-07
3048	352	2.44E-20	4678	235	5.82E-09
3050	-258	2.93E-09	4679	-234	4.46E-14
209					
3057	-131	1.81E-04	4686	136	7.16E-04

3061	-263	8.63E-04	4687	185	6.75E-08
3062	-221	6.36E-10	4688	90	6.52E-03
3066	93	8.03E-03	4690	-251	3.27E-08
3068	108	9.14E-04	4691	-257	2.39E-11
3069	197	3.70E-10	4692	-111	6.29E-03
3072	335	8.63E-10	4694	-193	7.88E-09
3077	178	2.57E-07	4696	-240	1.86E-11
3079	-180	2.35E-06	4699	140	2.34E-04
3084	-201	3.53E-08	4702	89	1.52E-04
3089	-229	2.67E-12	4705	91	7.43E-03
3092	167	7.17E-03	4708	-152	3.31E-03
3093	193	2.70E-03	4716	90	8.19E-03
3100	-207	3.82E-06	4728	177	6.76E-07
3102	187	2.35E-03	4731	-214	1.44E-04
3103	-118	4.28E-03	4732	136	2.14E-05
3104	-118	5.17E-04	4734	-172	3.18E-04
3112	102	1.76E-03	4739	-98	3.63E-03
3114	117	3.48E-03	4740	-94	4.78E-03
3116	245	7.43E-08	4746	147	8.44E-06
3118	-127	8.83E-04	4752	-102	4.00E-03
3120	-190	8.93E-09	4753	-94	1.07E-03
3122	132	1.14E-04	4756	186	3.46E-10
3124	-236	3.76E-13	4758	-144	4.46E-05
3125	-212	1.04E-09	4760	-280	2.91E-13
3127	-92	5.95E-03	4761	-279	3.75E-13
3129	163	3.41E-07	4763	-239	6.56E-14
3131	93	3.95E-03	4764	214	1.26E-07
3133	101	2.11E-03	4765	-144	7.62E-06
3141	104	3.66E-03	4766	-116	7.90E-04
3142	163	2.51E-07	4769	-140	9.33E-03
3143	-265	6.47E-13	4770	-141	2.24E-05
3144	-124	2.19E-04	4771	-386	1.18E-11
3145	-127	1.57E-04	4778	-141	6.69E-04
3150	-95	3.94E-03	4780	182	3.70E-08
3152	130	2.47E-04	4781	161	1.99E-04
3153	-213	2.92E-10	4786	-127	1.73E-03
3154	169	4.17E-06	4789	-180	7.10E-08
3158	-183	5.23E-08	4790	-162	6.35E-07
3165	-313	5.27E-16	4797	-106	2.78E-03
3166	-198	6.05E-10	4800	-268	1.89E-05
3167	-316	1.81E-12	4801	-244	3.64E-15
3168	168	2.67E-07	4802	141	1.31E-04
3170	189	6.68E-06	4803	164	1.20E-06

3171	-157	8.19E-03	4807	303	4.89E-13
3176	211	3.55E-11	4808	-201	1.08E-09
3177	-160	6.84E-04	4814	112	2.80E-03
3178	-109	1.00E-03	4821	-162	6.36E-04
3179	-172	1.38E-05	4822	82	5.60E-04
3181	-146	3.49E-04	4826	156	1.54E-03
3183	-156	3.82E-06	4827	304	4.52E-12
3184	250	6.72E-14	4831	-101	2.82E-03
3189	-199	2.00E-09	4834	-393	4.66E-06
3190	235	7.45E-09	4835	153	1.90E-03
3193	195	6.74E-04	4839	-114	4.70E-06
3194	194	8.20E-04	4841	-142	1.75E-03
3196	-162	1.07E-04	4843	157	1.10E-06
3197	-182	5.50E-03	4847	92	3.51E-03
3200	94	5.54E-03	4858	-254	3.19E-12
3201	-173	4.27E-06	4859	-174	3.28E-07
3202	-184	1.58E-03	4863	-263	6.66E-16
3205	-237	3.54E-05	4864	-235	1.76E-11
3206	241	1.25E-03	4870	-174	7.22E-06
210					
3210	101	1.11E-03	4871	-99	2.95E-03
3213	-224	2.05E-03	4873	174	3.42E-06
3218	-323	2.85E-18	4879	-222	4.22E-11
3220	135	1.29E-04	4882	-152	1.23E-05
3227	-190	1.18E-04	4887	-170	3.26E-03
3235	-156	3.44E-05	4890	-277	1.21E-06
3241	-343	5.47E-13	4893	161	1.15E-06
3245	94	6.23E-03	4894	-101	4.16E-03
3248	-253	2.86E-05	4898	181	7.54E-12
3254	-150	8.43E-04	4904	-101	1.73E-03
3258	167	9.26E-07	4905	-233	9.87E-07
3263	162	2.22E-06	4908	-127	1.48E-04
3269	-94	6.93E-03	4909	-140	6.67E-06
3272	216	1.71E-05	4911	251	8.32E-08
3275	-167	3.67E-05	4914	-146	2.05E-05
3281	-182	5.74E-04	4917	112	2.02E-03
3286	83	9.58E-03	4919	315	5.52E-05
3289	-161	7.97E-03	4920	183	2.24E-08
3292	-144	1.12E-04	4924	130	9.02E-05
3306	-196	2.53E-04	4927	114	1.78E-05
3310	99	2.92E-03	4929	-115	5.24E-03
3312	-192	2.26E-07	4936	-184	1.24E-05
3313	-198	1.33E-07	4937	193	9.59E-10

3317	180	3.02E-08	4938	89	8.19E-03
3321	152	3.53E-06	4946	-130	4.40E-05
3322	-269	2.87E-13	4951	179	3.03E-07
3327	-207	8.95E-05	4956	-162	2.01E-03
3334	-137	3.21E-03	4958	145	4.48E-06
3341	-213	2.87E-06	4960	217	3.93E-03
3343	-71	6.03E-03	4962	-317	3.37E-06
3344	-89	8.24E-03	4966	125	7.16E-04
3352	185	2.28E-03	4967	77	8.71E-03
3353	248	4.34E-12	4973	215	8.23E-09
3357	-97	5.39E-03	4976	-313	8.86E-09
3359	-94	9.41E-03	4977	-223	1.38E-06
3367	125	4.26E-03	4978	-262	8.63E-04
3371	340	1.60E-28	4981	116	5.05E-04
3372	-89	3.31E-03	4982	-120	3.90E-04
3379	-342	2.96E-07	4986	-132	4.59E-03
3385	100	1.91E-03	4987	-360	2.56E-05
3390	186	6.18E-04	4991	-267	2.22E-16
3391	87	1.83E-03	4996	-275	6.25E-09
3392	232	3.30E-07	5003	-161	1.41E-03
3394	227	4.63E-08	5004	-432	8.69E-12
3395	243	1.64E-09	5005	-431	9.34E-12
3396	-257	7.40E-12	5010	-164	3.96E-04
3404	-98	4.68E-03	5013	100	1.52E-03
3406	-87	4.80E-03	5016	-188	1.45E-11
3407	94	3.09E-03	5025	344	4.74E-29
3416	86	8.43E-03	5026	-170	2.62E-05
3417	170	7.52E-08	5028	-128	3.61E-05
3420	240	1.47E-12	5030	-122	1.70E-04
3423	185	9.23E-08	5036	111	9.59E-04
3428	-106	7.71E-04	5037	-175	1.42E-07
3436	164	3.06E-05	5044	-203	5.55E-05
3438	-140	1.02E-09	5046	-135	4.65E-05
3439	-213	1.94E-06	5060	129	1.78E-04
3441	210	3.61E-04	5061	-331	1.64E-07
3448	173	9.37E-06	5063	-325	2.05E-08
3450	-269	6.27E-04	5066	-128	5.89E-05
3457	-286	8.94E-08	5069	176	1.03E-06
3466	87	6.34E-03	5070	199	2.75E-07
3467	208	8.07E-11	5071	155	1.09E-06
211					
3468	90	5.52E-03	5074	-299	5.12E-05
3471	-175	8.99E-03	5078	-174	1.80E-10

3479	-162	2.47E-03	5079	269	1.59E-16
3480	-132	3.14E-03	5083	208	6.04E-09
3483	269	2.87E-07	5086	146	1.36E-06
3485	-437	1.81E-33	5088	107	2.57E-06
3489	254	8.76E-13	5093	-205	3.85E-10
3490	196	7.32E-08	5094	242	2.39E-06
3491	349	1.68E-26	5095	-221	6.53E-06
3492	94	7.50E-03	5098	181	6.16E-08
3493	-116	2.10E-03	5101	-105	4.87E-03
3498	109	1.00E-03	5102	-247	5.80E-04
3503	-204	4.66E-05	5108	155	8.28E-05
3506	-257	8.29E-08	5109	164	1.64E-04
3510	-94	8.14E-03	5114	174	1.74E-04
3511	136	1.73E-03	5117	253	8.23E-06
3514	-272	2.61E-14	5122	-234	2.50E-08
3518	-348	4.17E-04	5124	-222	1.79E-10
3523	193	5.03E-09	5125	171	8.31E-08
3527	174	1.02E-04	5133	-346	6.37E-11
3539	212	2.70E-09	5134	-224	4.90E-12
3540	-114	4.13E-04	5138	-203	2.74E-09
3541	141	2.00E-05	5143	-186	9.00E-03
3546	-192	2.69E-05	5148	-219	2.52E-08
3548	-456	4.49E-12	5149	-115	2.16E-03
3550	117	7.53E-04	5155	-306	4.04E-04
3554	147	1.82E-10	5162	-107	5.58E-03
3557	-212	2.10E-03	5164	-181	1.32E-08
3558	-194	1.32E-08	5170	96	2.17E-03
3561	-130	8.20E-03	5172	-253	3.29E-14
3563	-198	5.38E-04	5176	-448	1.75E-09
3568	152	2.96E-06	5178	142	2.87E-03
3569	123	2.52E-04	5179	-275	2.29E-05
3575	-363	1.22E-06	5185	196	4.96E-07
3578	197	5.16E-03	5199	-203	2.11E-07
3579	171	3.03E-10	5201	-169	1.21E-06
3580	-180	7.09E-04	5204	-187	2.00E-08
3585	-118	1.14E-03	5205	-194	1.00E-05
3587	107	5.45E-03	5207	209	1.16E-06
3588	-94	8.33E-03	5209	161	9.23E-07
3591	324	3.74E-05	5211	174	8.78E-05
3592	145	7.13E-05	5212	-102	2.82E-03
3593	-291	2.25E-15	5219	145	1.59E-04
3594	289	1.93E-12	5220	-174	2.03E-07
3596	-164	1.88E-06	5223	109	6.70E-04

3599	158	6.05E-05	5230	190	5.68E-09
3601	-232	9.39E-10	5231	271	1.60E-13
3602	204	1.27E-04	5232	154	1.05E-03
3606	121	1.85E-04	5234	95	5.77E-03
3609	-267	1.27E-04	5235	-223	9.77E-08
3613	135	3.01E-05	5237	177	6.77E-08
3614	-159	9.35E-05	5239	-139	2.57E-04
3615	221	9.24E-12	5242	81	4.59E-03
3617	254	3.11E-05	5247	125	2.11E-04
3618	368	5.74E-25	5251	-107	1.02E-05
3619	-152	6.10E-06	5252	-112	4.21E-06
3622	-211	1.76E-03	5253	130	2.77E-05
3625	194	1.53E-16	5258	219	5.64E-04
3627	-163	1.37E-03	5261	-194	2.86E-08
3631	-170	5.56E-07	5262	148	7.47E-03
3633	147	4.10E-03	5267	-298	1.38E-03
3636	-226	4.10E-09	5273	-253	1.23E-13
3637	-132	7.14E-03	5274	-252	1.63E-13
212					
3647	-175	2.02E-05	5275	-144	1.58E-05
3652	-415	2.61E-06	5276	-304	1.64E-03
3653	140	1.77E-05	5279	-192	4.73E-09
3660	-112	9.32E-04	5280	197	2.69E-04
3661	-231	1.72E-11	5285	-309	1.11E-16
3666	-91	6.54E-03	5291	261	1.00E-05
3668	226	1.12E-12	5293	-225	2.60E-05
3670	-107	4.34E-03	5294	299	2.31E-08
3673	219	1.58E-04	5295	-214	6.31E-05
3683	-138	1.16E-04	5300	164	8.45E-03
3684	91	4.33E-03	5302	-247	3.54E-15
3695	-204	4.22E-04	5308	-235	4.14E-13
3696	-173	5.12E-05	5310	-159	4.68E-03
3700	239	2.95E-10	5316	234	2.87E-08
3704	107	6.67E-03	5317	117	3.18E-04
3705	145	1.15E-03	5319	-170	1.32E-03
3706	-231	1.54E-10	5320	103	4.32E-03
3708	238	1.72E-13	5321	203	1.40E-08
3709	-152	1.35E-03	5323	-176	7.46E-08
3713	220	8.69E-07	5329	-322	3.41E-05
3714	-90	1.24E-04	5331	-108	7.46E-03
3722	207	1.13E-10	5333	-101	7.62E-03
3723	-269	7.86E-05	5334	-103	5.85E-03
3726	149	3.99E-06	5340	-457	6.61E-07

3727	-214	1.48E-09	5344	223	3.35E-13
3728	150	8.55E-05	5345	368	6.87E-34
3729	-306	3.57E-16	5348	152	5.03E-04
3730	116	1.63E-05	5350	162	3.06E-05
3734	113	8.48E-04	5353	268	3.21E-17
3735	-243	1.32E-05	5355	86	7.46E-03
3736	166	3.02E-04	5360	198	5.51E-05
3740	-161	7.57E-06	5367	-99	3.02E-03
3742	-314	3.89E-14	5368	137	4.24E-04
3749	-285	1.19E-15	5369	-181	1.32E-05
3751	-167	7.69E-04	5372	-220	4.81E-04
3752	-131	5.81E-05	5377	186	1.33E-04
3753	-242	2.41E-10	5379	-273	1.66E-16
3757	116	4.36E-03	5384	151	2.92E-06
3759	-334	4.59E-18	5387	-143	1.94E-04
3760	301	1.80E-24	5388	229	3.86E-04
3763	200	1.73E-04	5390	71	2.70E-03
3768	-202	3.74E-03	5397	186	3.18E-08
3772	-334	5.54E-12	5399	-311	1.63E-16
3776	-222	5.40E-11	5402	-105	8.84E-06
3779	112	5.67E-04	5405	-126	6.87E-04
3780	179	3.79E-09	5412	-151	1.64E-05
3788	-229	1.30E-10	5414	-182	2.93E-08
3789	-348	1.25E-09	5417	174	3.49E-05
3792	-153	6.99E-04	5419	185	1.83E-08
3793	-236	1.58E-12	5426	-166	8.17E-06
3796	-376	4.90E-17	5427	-165	9.77E-06
3797	-367	9.94E-18	5429	193	9.64E-07
3798	-202	2.87E-05	5430	-250	3.18E-03
3801	125	2.77E-04	5431	-252	2.11E-04
3805	140	1.02E-04	5432	313	1.45E-27
3808	-202	1.54E-09	5439	-172	1.64E-03
3810	-122	3.93E-04	5446	151	2.77E-06
3812	-179	3.40E-08	5448	166	5.89E-03
3819	-242	5.34E-04	5455	-117	1.05E-03
3821	285	2.70E-04	5461	-118	8.32E-03
3825	124	6.20E-03	5465	128	2.67E-04
3831	-99	8.80E-03	5466	-90	7.71E-03
3834	-98	7.06E-03	5470	-228	8.73E-11
213					
3847	-104	1.70E-03	5473	-236	2.22E-12
3852	105	1.29E-03	5477	327	6.32E-06
3859	-240	3.57E-14	5480	208	1.18E-07

3862	204	3.27E-10	5485	-160	8.41E-03
3864	-172	5.37E-08	5486	-159	8.59E-03
3865	-119	8.15E-04	5489	-163	3.58E-07
3866	103	1.56E-03	5491	131	5.05E-05
3878	-260	4.82E-15	5494	-99	3.08E-03
3879	-189	6.64E-07	5495	312	5.98E-09
3884	-291	1.37E-19	5499	230	5.11E-11
3886	255	1.02E-13	5501	368	6.78E-31
3887	-123	1.55E-03	5502	362	4.16E-30
3892	-116	1.28E-03	5505	-414	1.59E-11
3895	-92	5.99E-03	5509	237	4.55E-08
3902	-265	5.22E-12	5512	-147	1.42E-03
3904	-234	1.83E-13	5513	-167	3.31E-06
3910	117	9.02E-05	5514	290	5.56E-06
3914	-393	4.12E-33	5520	120	2.72E-04
3915	99	1.80E-04	5522	-245	1.39E-12
3918	-123	2.39E-03	5524	-107	6.25E-03
3919	211	1.01E-03	5527	246	1.28E-14
3922	-234	2.78E-13	5529	-90	4.20E-03
3924	192	4.39E-15	5539	-118	2.72E-03
3926	85	7.94E-03	5541	-165	5.02E-04
3927	-138	5.42E-05	5546	-149	1.14E-05
3928	-130	2.03E-04	5551	101	7.90E-03
3929	207	2.49E-10	5552	-101	2.16E-03
3930	-222	3.23E-05	5553	137	1.07E-03
3933	-112	5.32E-04	5557	-93	5.58E-03
3937	-165	2.64E-07	5558	-93	5.61E-03
3938	337	2.51E-11	5560	-88	4.46E-03
3940	256	1.41E-15	5565	118	7.50E-04
3944	82	5.15E-04	5570	272	9.87E-21
3945	-181	2.38E-03	5574	-129	1.07E-04
3946	277	4.09E-16	5576	198	1.14E-05
3947	-173	3.05E-07	5577	198	1.47E-03
3957	-161	1.66E-04	5578	147	3.56E-04
3959	249	4.76E-06	5580	-289	3.80E-18
3961	112	1.73E-03	5581	-147	2.53E-05
3968	-181	4.65E-03	5583	-337	2.82E-06
3972	278	7.01E-13	5588	91	7.13E-03
3983	97	1.89E-03	5590	204	1.65E-10
3989	125	8.20E-03	5592	131	5.32E-05
3998	-209	8.00E-03	5593	-126	1.84E-03
4001	241	1.36E-04	5595	-238	2.94E-03
4009	136	7.46E-05	5596	-183	4.92E-08

4011	292	6.00E-17	5597	-180	7.68E-08
4014	-126	1.09E-04	5599	-181	1.12E-04
4015	96	5.46E-03	5601	-121	5.94E-04
4017	-125	6.08E-04	5602	-229	1.16E-12
4021	262	1.67E-05	5605	-325	1.50E-09
4022	-235	1.90E-07	5606	-301	4.45E-08
4023	-270	4.89E-05	5608	-351	3.86E-27
4025	267	9.17E-19	5614	-179	1.43E-03
4027	182	2.85E-08	5617	-119	8.18E-04
4028	-253	3.70E-05	5619	216	1.11E-08
4031	-295	2.62E-05	5623	240	3.99E-09
4032	176	1.20E-07	5624	-150	1.32E-04
4041	-161	5.69E-05	5627	137	5.86E-05
4042	-102	8.11E-03	5630	132	1.61E-03
4044	-280	1.82E-12	5637	169	2.05E-04
4045	158	1.46E-05	5638	232	1.06E-07
4050	143	1.81E-05	5639	-183	1.29E-08
214					
4051	-248	2.78E-17	5651	-253	9.77E-03
4052	-283	2.39E-18	5658	291	1.30E-05
4053	102	4.35E-03	5660	137	3.41E-05
4056	224	6.11E-13	5664	-164	9.57E-03
4060	87	6.36E-03	5667	130	1.49E-03
4061	84	8.85E-03	5668	-257	1.46E-11
4068	216	4.01E-03	5674	-392	7.67E-22
4070	-181	4.26E-08	5677	161	1.14E-06
8690	-202	5.27E-07	8883	-332	4.59E-05
8693	-465	8.05E-27	8893	184	1.26E-08
8694	193	1.60E-06	8898	-225	9.32E-13
8699	212	1.78E-11	8899	-171	1.65E-07
8700	309	2.61E-12	8908	-269	8.81E-18
8704	-209	1.13E-04	8909	-227	2.25E-03
8707	-300	4.56E-07	8910	251	6.45E-14
8708	-305	4.29E-07	8911	215	1.79E-11
8710	-359	6.48E-14	8914	141	1.67E-03
8715	-171	4.97E-07	8915	-238	3.53E-10
8717	-299	4.58E-06	8916	-240	2.60E-10
8720	-124	3.99E-05	8919	-244	3.02E-10
8722	-120	4.76E-03	8921	169	8.26E-05
8724	147	2.73E-04	8922	-187	2.39E-09
8725	-92	4.61E-03	8927	-151	1.39E-05
8728	-428	1.08E-23	8928	-259	1.14E-11
8729	-214	1.57E-03	8930	170	1.28E-04

8731	149	4.17E-06	8936	188	6.62E-03
8733	-234	2.20E-11	8938	151	2.63E-07
8740	136	3.67E-07	8941	-274	1.01E-05
8744	-137	2.53E-04	8944	87	7.30E-03
8749	128	4.90E-04	8946	-167	2.27E-03
8751	-123	6.73E-05	8950	-176	2.45E-03
8752	208	6.96E-04	8952	210	1.80E-07
8756	86	7.65E-03	8954	296	8.67E-21
8757	-229	1.95E-10	8955	143	6.42E-06
8759	-337	1.02E-05	8957	273	3.00E-12
8762	-105	2.07E-03	8959	-240	2.41E-07
8764	-198	2.01E-03	8960	-167	2.99E-06
8773	-192	5.91E-08	8963	-257	2.51E-06
8774	108	1.03E-03	8965	-140	3.26E-05
8786	-101	2.80E-03	8970	-214	2.88E-12
8792	-339	3.45E-12	8971	110	5.40E-05
8796	236	1.34E-03	8980	-154	8.53E-06
8799	107	4.51E-03	8981	-327	6.51E-21
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8805	-305	5.59E-21	8997	146	6.49E-05
8808	179	5.59E-08	9001	-128	1.37E-03
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8814	-128	2.42E-03	9010	-108	9.90E-04
8818	-228	1.55E-03	9011	113	2.50E-04
8822	-198	2.63E-09	9013	-101	8.18E-03
8824	-218	9.77E-05	9026	229	1.73E-05
8825	-165	2.73E-07	9027	-139	3.03E-05
8832	-420	9.06E-11	9030	187	9.53E-09
8834	152	1.62E-04	9032	134	6.98E-03
8838	-222	1.56E-06	9040	-183	1.54E-07
8839	-396	3.17E-12	9043	-324	2.09E-08
8841	-264	3.48E-10	9046	-369	1.19E-15
8846	-229	4.32E-05	9049	-317	1.76E-05
8847	-140	3.15E-05	9050	-321	1.99E-14
8848	-347	3.96E-26	9052	178	1.18E-07
8849	-408	2.09E-16	9054	-121	7.46E-03
8854	-407	1.05E-07	9055	-173	1.28E-06
215					
8855	-187	1.40E-07	9056	-99	2.31E-03
8857	168	4.46E-07	9057	-169	1.02E-08
8860	-268	2.52E-04	9059	-158	1.94E-03
8863	-103	2.37E-03	9063	-169	3.00E-07

8865	-198	1.44E-07	9064	-179	4.00E-08
8867	148	7.90E-06	9065	209	1.79E-06
8874	-93	4.97E-03	9068	118	1.61E-03
8875	118	2.45E-04	9069	228	8.53E-04
8877	-112	2.12E-03	9070	157	9.60E-03
9698	186	5.55E-08	9900	-150	9.87E-03
9699	-221	5.70E-08	9901	60	9.14E-03
9700	129	2.72E-04	9907	-263	1.34E-04
9701	-171	2.93E-05	9908	145	4.83E-06
9703	157	5.27E-06	9910	124	6.14E-04
9704	268	1.94E-03	9914	-227	2.09E-03
9707	-212	3.35E-10	9917	-161	1.02E-04
9711	-137	1.44E-07	9919	102	2.03E-03
9712	-354	2.52E-05	9921	181	1.36E-05
9713	376	4.85E-09	9922	-108	9.97E-03
9715	-177	4.37E-08	9924	154	1.87E-06
9716	302	1.04E-19	9925	147	8.51E-06
9719	-165	1.12E-06	9927	228	1.05E-06
9720	-160	9.96E-03	9936	-73	7.62E-03
9723	297	6.90E-07	9945	-151	8.39E-06
9725	-210	2.39E-09	9946	377	1.14E-26
9730	-234	1.22E-08	9950	-110	2.11E-03
9732	-226	1.99E-04	9952	196	1.02E-05
9733	111	8.68E-04	9957	-220	1.51E-08
9736	-144	2.56E-05	9959	156	8.99E-07
9738	-115	1.49E-03	9961	238	6.55E-14
9746	314	1.25E-12	9964	196	2.12E-05
9747	-306	2.12E-08	9973	-137	2.83E-03
9758	-279	1.14E-03	9975	-78	3.48E-03
9766	194	7.21E-04	9981	-165	3.62E-07
9767	-277	1.82E-03	9982	-185	1.07E-08
9769	155	7.41E-03	9983	-110	7.74E-03
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9777	192	1.91E-03	9992	-272	2.69E-06
9779	178	1.29E-03	9993	-89	1.82E-04
9780	-129	5.95E-03	9994	160	1.23E-06
9781	-132	1.50E-03	9995	258	2.70E-16
9782	-218	5.04E-12	10000	-154	9.30E-06
9802	190	6.95E-03	10001	98	3.71E-03
9809	153	1.81E-04	10004	-213	6.56E-03
9813	96	3.30E-03	10010	-174	5.10E-07
9815	127	1.16E-04	10011	-314	8.13E-21
9817	99	9.34E-05	10018	97	3.63E-03

9818	106	3.02E-05	10021	-127	1.13E-03
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9825	-145	3.75E-04	10026	-209	7.27E-10
9837	-246	1.02E-06	10035	170	1.19E-06
9838	-242	2.68E-13	10039	-257	6.00E-12
9847	278	2.79E-14	10044	188	7.55E-09
9848	153	1.10E-03	10045	-208	4.82E-03
9851	-283	1.46E-05	10046	-107	2.39E-03
9858	-128	2.57E-05	10053	-240	4.28E-06
9859	-191	2.12E-08	10054	102	3.49E-03
9860	-218	2.11E-06	10056	186	3.69E-06
9863	-202	5.61E-07	10059	-175	7.53E-08
9866	-187	4.48E-08	10062	-215	1.13E-11
9867	-140	2.88E-05	10064	-253	1.59E-03
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9869	-170	3.14E-04	10074	-268	1.19E-07
216					
9870	109	8.72E-04	10076	-112	5.21E-04
9873	157	3.99E-06	10077	-140	5.20E-08
9874	-179	1.71E-07	10080	-116	2.55E-03
9876	228	4.04E-12	10081	-99	3.42E-03
9879	171	9.62E-08	10084	290	2.28E-12
9882	154	2.02E-05	10092	-186	5.12E-08
9886	103	4.97E-03	10095	137	2.37E-08
9889	122	8.46E-03	10098	200	1.37E-04
9891	144	3.71E-05	10102	181	1.19E-04
9894	-96	4.10E-03	10103	-99	3.07E-03
10758	-390	1.79E-11	11087	97	1.65E-03
10760	-188	3.06E-08	11088	368	6.84E-30
10763	-339	1.75E-07	11096	337	7.86E-09
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10775	-206	6.04E-10	11101	201	6.35E-10
10778	239	3.62E-14	11102	190	1.03E-08
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10798	103	1.46E-03	11108	-151	8.73E-06
10802	287	3.11E-09	11115	-147	1.77E-03
10805	-207	8.02E-04	11116	-243	2.07E-06
10807	-124	2.84E-04	11127	-176	3.41E-07
10811	-289	6.20E-05	11136	179	2.25E-06
10818	-174	6.68E-07	11140	121	5.07E-04
10832	-173	1.25E-03	11142	140	8.71E-05
10837	207	1.22E-09	11151	138	8.51E-03

10838	295	9.79E-21	11153	-154	3.58E-06
10839	-137	6.35E-03	11154	104	2.11E-03
10840	-200	3.82E-08	11159	269	9.63E-17
10848	-209	4.27E-04	11166	-233	1.92E-12
10850	-97	2.60E-03	11172	-199	3.48E-10
10854	-166	5.42E-03	11173	294	4.05E-18
10865	159	4.93E-06	11177	245	7.03E-05
10872	-359	2.86E-17	11179	-104	1.46E-03
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10889	-126	5.39E-05	11184	235	2.17E-12
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10897	177	4.74E-03	11189	145	1.48E-05
10900	-148	1.62E-05	11191	-234	2.42E-13
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10911	-141	2.21E-05	11201	-241	9.40E-08
10913	-201	1.22E-09	11204	-155	1.59E-03
10917	-285	5.13E-12	11206	-200	2.39E-09
10923	-255	2.73E-06	11210	185	5.36E-04
10924	161	1.12E-06	11213	-291	1.35E-06
10926	-332	1.25E-06	11219	-164	2.37E-05
10934	-133	2.01E-03	11224	147	7.43E-05
10940	-154	2.63E-06	11236	-247	1.27E-07
10942	173	1.91E-05	11239	-127	5.40E-03
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10947	-147	7.42E-03	11249	-205	3.74E-10
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10980	241	7.71E-15	11302	196	4.48E-08
10985	-339	5.57E-26	11306	-312	2.34E-24
10987	-152	4.73E-03	11311	-178	1.83E-07
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11012	-230	1.73E-12	11321	-211	1.15E-08
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11016	-175	9.06E-06	11323	-275	1.07E-09
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11029	136	2.47E-04	11340	294	8.77E-19
11032	156	1.78E-05	11341	223	1.66E-03

11038	-80	9.65E-03	11344	134	3.31E-05
11047	-126	2.66E-04	11348	-246	9.37E-07
11060	217	3.16E-08	11350	119	1.13E-03
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11085	-147	8.82E-06	11356	-144	1.18E-03
12557	-279	1.55E-12	14716	143	3.04E-05
12565	175	1.31E-04	14722	144	1.00E-05
12577	-112	6.62E-04	14727	238	5.83E-11
12584	-156	2.04E-04	10197	41	5.00E-02
12588	-181	2.34E-03	10499	41	5.00E-02
12590	-402	3.53E-12	10643	72	5.00E-02
12591	-211	1.23E-09	10831	41	5.00E-02
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12598	-291	1.03E-11	11043	-51	5.00E-02
12599	80	7.44E-03	11445	95	5.00E-02
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12610	-355	4.44E-06	12198	-44	5.00E-02
12613	-219	4.52E-09	13767	-252	8.64E-15
12614	-165	1.05E-04	13772	179	6.57E-08
12623	-119	4.73E-04	13777	131	1.37E-03
12625	159	5.23E-07	13786	220	6.23E-04
12627	-230	3.32E-04	13788	-154	3.24E-04
12630	184	4.53E-05	13791	121	1.29E-04
12636	-169	6.71E-05	13793	-259	2.00E-10
12642	89	7.98E-03	13795	159	3.29E-05
12644	-292	3.79E-16	13798	-123	2.01E-03
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12652	-314	3.51E-05	13832	216	3.42E-09
12656	-315	7.22E-17	13838	174	2.82E-07
12657	201	7.34E-08	13839	-348	9.86E-23
12658	-159	2.47E-05	13852	98	1.98E-03
12662	126	3.42E-03	13857	185	4.08E-08
12666	-141	1.62E-03	13860	-205	2.89E-05
12667	188	1.34E-03	13865	-517	1.49E-06
12668	-217	4.90E-09	13878	-191	5.03E-07
12673	-241	1.70E-11	13879	-95	5.24E-03
12674	267	1.09E-15	13885	140	1.30E-04
12675	-112	4.62E-03	13891	-240	4.49E-07
12676	-130	1.34E-03	13898	177	7.73E-07

12683	-151	3.36E-06	13903	-110	5.05E-03
12685	-184	1.58E-05	13906	-157	3.78E-05
12687	193	1.83E-04	13916	-341	1.35E-09
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12701	168	1.65E-06	13927	262	1.63E-10
12702	-442	3.34E-05	13934	-109	1.90E-03
12705	-143	1.56E-05	13939	-148	1.19E-05
12706	198	1.39E-09	13949	-266	2.97E-09
12720	127	2.98E-04	13954	-182	2.41E-04
12725	-262	3.14E-12	13955	169	1.29E-05
12740	-99	4.94E-03	13959	172	5.59E-04
12742	-120	2.63E-03	13963	-97	8.55E-03
12746	97	2.38E-03	13971	221	2.14E-08
12754	-152	1.37E-03	13973	135	1.67E-03
218					
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12766	-147	4.24E-03	13984	-242	1.39E-13
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12785	170	3.89E-03	13998	147	1.36E-04
12786	108	1.40E-03	14008	156	6.04E-06
12795	144	7.93E-06	14009	-96	9.27E-03
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12814	-265	2.33E-03	14019	227	4.67E-15
12816	-270	2.54E-08	14031	-139	5.98E-05
12821	-172	1.37E-03	14033	-144	3.95E-04
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12827	-149	9.48E-03	14045	-167	3.58E-03
12828	-174	9.44E-07	14050	96	4.18E-03
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15115	-114	1.83E-03	14071	-204	6.39E-10
15128	199	9.99E-10	14079	172	8.65E-08
15131	-172	2.20E-07	14080	-103	1.11E-03
15132	-178	8.39E-03	14081	-275	1.42E-09
15133	-311	1.86E-03	14083	-185	1.74E-03
15138	109	9.76E-04	14084	126	3.15E-03
15150	287	2.54E-13	14086	-167	2.70E-07
15164	207	2.32E-10	14087	282	3.12E-05
15168	-139	3.54E-04	14089	93	7.95E-03
15172	174	8.21E-08	12470	57	5.00E-02

15182	115	2.70E-03	12508	189	5.00E-02
15184	-252	5.69E-13	12726	-299	5.00E-02
15187	-264	8.84E-06	13030	221	5.00E-02
15192	-197	1.12E-04	13374	404	5.00E-02
15199	95	4.93E-03	13528	220	5.00E-02
15204	-225	5.97E-10	13598	574	5.00E-02
15211	-331	3.49E-17	14459	215	5.00E-02
15236	-144	8.90E-03	14745	160	5.00E-02
15243	-344	2.09E-11	14930	468	5.00E-02
15244	-324	1.08E-10	15041	-397	5.00E-02
15248	-196	1.01E-04	15274	-245	5.00E-02
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15252	190	3.07E-05	13103	179	1.45E-07
15260	-287	1.76E-14	13105	173	1.47E-05
15281	-91	7.32E-03	13108	111	1.31E-03
15289	-151	7.25E-05	13109	120	6.49E-04
15291	116	7.55E-04	13111	240	4.16E-14
15293	-163	4.71E-06	13116	-240	1.95E-09
15309	280	7.54E-18	13122	-154	8.24E-04
15327	-185	1.69E-03	13124	-134	5.11E-08
15328	-400	7.21E-07	13126	-202	8.43E-09
15329	135	1.09E-03	13128	-311	1.21E-06
15333	178	1.27E-07	13132	103	1.65E-03
15339	-151	8.07E-03	13142	-371	6.99E-14
15340	-89	8.36E-03	13143	362	3.23E-21
15351	168	8.18E-06	13149	197	1.92E-08
15375	-194	1.61E-08	13151	-246	2.94E-06
254	-38	5.00E-02	13154	-145	1.10E-05
612	-43	5.00E-02	13161	-301	2.97E-22
1002	361	5.00E-02	13171	124	6.63E-03
1111	-24	5.00E-02	13178	131	4.60E-05
1440	114	5.00E-02	13184	-123	3.67E-03
1457	-56	5.00E-02	13191	-176	6.17E-04
1470	73	5.00E-02	13194	114	2.98E-03
2143	96	5.00E-02	13200	248	1.58E-10
2153	-57	5.00E-02	13201	216	5.26E-04
219					
2196	-81	5.00E-02	13210	119	2.12E-04
2454	-58	5.00E-02	13214	171	9.81E-07
2753	-116	5.00E-02	13217	-105	3.26E-03
2895	50	5.00E-02	13230	-212	7.47E-11
2958	115	5.00E-02	13238	-163	3.82E-07
3164	-72	5.00E-02	13249	-103	2.03E-03

3375	-62	5.00E-02	13255	117	4.38E-04
3508	74	5.00E-02	13258	-217	2.80E-04
3875	215	5.00E-02	13259	-105	9.91E-03
3948	33	5.00E-02	13264	-216	2.38E-11
4101	122	5.00E-02	13276	284	2.77E-18
4228	118	5.00E-02	13279	-268	6.39E-05
4933	70	5.00E-02	13295	155	5.05E-04
5136	62	5.00E-02	13297	175	5.82E-03
5269	-148	5.00E-02	13302	99	1.23E-03
5733	-44	5.00E-02	13305	-248	3.63E-09
14414	130	1.41E-08	13306	-257	1.06E-04
14415	-192	4.56E-09	13310	113	7.29E-04
14422	-100	4.05E-03	13312	-151	8.62E-06
14424	-272	2.48E-07	13315	-322	1.15E-03
14426	-164	3.24E-06	13323	-254	4.22E-04

A	B	C	A	B	C
408	-313	1.27E-11	592	171	1.54E-07
409	-145	4.29E-06	594	-164	4.66E-07
410	-206	1.87E-11	595	-254	1.12E-10
411	-209	1.15E-11	607	-121	1.69E-03
412	-414	3.28E-22	614	-238	9.46E-12
413	113	1.15E-03	615	122	4.63E-05
415	-250	5.15E-10	617	-115	1.87E-03
418	201	1.44E-04	620	178	3.83E-08
424	-179	1.44E-03	623	144	7.83E-05
425	-126	1.87E-04	629	379	5.54E-21
428	92	5.11E-03	636	172	1.07E-06
429	149	6.25E-06	637	-168	8.33E-07
440	141	1.53E-05	642	91	7.58E-03
444	-194	2.05E-08	644	268	9.41E-17
445	-122	6.93E-03	649	181	2.86E-08
447	-161	1.92E-05	652	152	3.39E-04
450	101	1.51E-03	655	105	2.38E-03
465	-214	7.81E-05	657	-139	5.10E-05
467	-313	2.06E-22	663	-252	1.97E-09
474	162	9.00E-07	664	-227	2.38E-12
476	353	2.00E-20	667	-107	1.22E-03
477	141	2.71E-05	668	-220	5.55E-11
478	152	2.30E-06	672	85	8.34E-03
479	-523	5.40E-10	678	126	1.56E-04
481	190	2.16E-07	681	254	2.44E-15
488	-145	1.13E-04	683	-107	2.20E-03
490	-183	1.37E-03	688	131	3.68E-05
497	-354	5.66E-17	690	-323	7.41E-16
499	201	1.70E-06	693	246	1.07E-07
500	223	2.02E-03	697	143	3.87E-03
503	-150	2.53E-04	703	189	2.64E-07
507	-189	1.02E-08	708	359	8.32E-06
508	239	1.69E-14	714	108	1.69E-03
509	97	4.12E-03	718	-222	3.29E-10
513	151	6.30E-03	724	-187	2.18E-06
518	-96	4.85E-03	730	-238	8.39E-09
522	-236	1.58E-05	736	136	7.88E-05
525	-220	2.43E-06	737	266	6.69E-03
529	-134	7.38E-04	746	-277	3.98E-05
530	-277	1.36E-03	749	-117	4.15E-03

531	254	6.17E-11	753	-143	1.40E-05
532	249	3.11E-12	757	-123	1.47E-04
534	-300	1.66E-16	760	-459	2.00E-07
535	145	2.73E-04	761	238	4.07E-06
537	103	2.11E-04	762	201	7.38E-06
538	-174	5.03E-09	765	-247	5.63E-04
539	-183	8.66E-08	766	149	9.32E-06
540	-276	2.15E-17	767	-193	7.02E-03
541	-183	1.66E-05	769	-290	3.17E-19
543	242	2.74E-08	772	-139	3.41E-04
545	-179	2.83E-04	779	-404	4.31E-18
546	-99	3.67E-03	781	176	8.56E-06
550	227	2.48E-05	782	-129	2.81E-04
552	136	7.77E-05	784	-275	1.91E-07
553	-93	7.78E-03	785	219	3.25E-05
559	203	5.84E-11	793	338	7.17E-16
561	-336	9.39E-14	794	242	5.92E-07
565	128	1.83E-04	795	207	5.80E-09
569	-128	1.16E-04	799	237	4.89E-04
570	-216	3.30E-11	801	-252	3.19E-05
576	155	8.09E-03	808	-201	3.49E-08
582	92	4.34E-03	811	315	3.20E-07
583	-192	2.58E-09	812	231	9.41E-09
588	-272	7.51E-08	827	160	9.05E-07
5679	-145	5.35E-05	829	282	5.16E-12
5682	181	4.62E-08	837	-173	1.83E-05
5684	279	2.32E-05	838	-143	6.09E-06
5688	-262	4.06E-08	839	-138	1.36E-05
5691	208	1.28E-07	840	-329	8.69E-11
5693	-81	8.24E-03	841	-91	8.43E-03
5695	201	7.99E-04	842	-203	2.68E-09
5701	137	3.04E-03	844	205	2.49E-09
5703	272	3.14E-17	846	-334	1.16E-14
5704	296	4.64E-21	847	138	2.14E-04
5705	197	1.38E-10	849	110	1.53E-03
5707	-150	1.42E-04	850	87	9.71E-03
5708	-306	8.66E-07	854	-145	8.63E-05
5710	214	3.51E-06	855	115	2.50E-03
5711	-274	2.49E-14	858	-198	1.88E-09
5712	-190	8.13E-05	864	199	2.49E-09
5713	209	5.09E-11	865	178	1.31E-04
5715	-252	3.00E-05	867	-155	3.95E-06

5737	-144	3.05E-03	868	-173	7.23E-05
5739	115	1.03E-05	870	216	1.81E-10
5741	-245	2.86E-15	871	-99	5.83E-03
5742	-250	5.92E-16	875	-128	9.43E-03
5743	-165	1.56E-03	876	-174	3.68E-08
5746	125	1.80E-04	882	-252	9.06E-12
5753	-316	2.63E-08	886	120	2.82E-03
5754	-295	5.68E-22	888	-148	4.20E-04
5755	-153	9.51E-03	890	-146	3.41E-06
5756	239	3.58E-09	900	182	1.11E-08
5757	136	1.96E-03	901	-184	1.61E-08
5758	157	3.52E-03	905	123	2.07E-04
5759	-85	2.62E-04	906	386	1.11E-07
5761	96	4.00E-03	919	293	1.20E-07
5762	103	1.93E-03	928	204	1.11E-10
5763	216	1.91E-03	934	-131	5.76E-05
5768	-185	8.98E-07	936	94	7.16E-03
5774	-285	7.87E-04	937	-228	1.96E-03
5775	108	1.12E-03	939	206	2.54E-08
5777	218	1.12E-04	944	-163	6.98E-04
5781	141	4.05E-04	945	113	4.86E-04
5784	-155	7.87E-05	949	-417	3.44E-35
5785	-419	1.45E-12	954	261	5.47E-15
5787	84	9.91E-03	960	-90	5.44E-03
5788	-299	1.94E-12	962	170	5.00E-05
5791	-155	1.29E-06	963	-324	3.20E-08
5792	150	2.94E-03	964	220	9.63E-09
5795	232	6.97E-03	972	141	7.06E-03
5796	-111	1.09E-03	975	120	2.84E-04
5798	-252	7.31E-12	979	368	9.84E-31
5800	-145	3.03E-06	982	118	2.78E-03
5803	-250	5.55E-04	983	-168	1.26E-03
5806	-331	9.89E-12	984	217	6.78E-10
5808	161	6.60E-03	989	111	2.76E-03
5809	-235	3.47E-04	993	109	6.71E-04
5811	-105	2.69E-03	994	-214	1.13E-10
5815	-165	6.42E-04	997	-134	7.10E-04
5816	-365	1.15E-06	998	92	8.18E-03
5819	-230	2.62E-07	1003	257	1.41E-08
5821	-308	2.91E-21	1006	-303	1.21E-06
5823	-433	1.87E-11	1009	-228	1.48E-11
5824	-432	9.10E-12	1010	-225	4.85E-09

5825	-277	1.62E-09	1012	146	9.45E-05
5828	-129	6.35E-03	1015	-93	5.44E-03
5830	-310	3.53E-04	1016	-262	3.26E-15
5835	119	3.80E-03	1021	146	9.15E-05
5838	-360	7.76E-31	1031	-220	2.43E-06
5840	87	7.93E-03	1033	209	1.25E-10
5841	93	6.21E-03	1035	-198	6.45E-08
5846	191	8.63E-07	1037	-233	1.71E-07
5852	-166	2.76E-03	1038	-160	9.67E-07
5856	255	6.16E-16	1042	152	1.08E-05
5866	-149	4.06E-03	1044	179	6.39E-04
5868	161	3.81E-07	1045	-220	3.60E-06
5870	168	4.47E-08	1048	-126	3.32E-03
5871	149	1.10E-04	1049	-136	7.00E-05
5872	187	3.25E-06	1056	127	1.13E-04
5874	132	3.15E-05	1057	110	4.81E-04
5875	-267	2.83E-12	1063	183	1.39E-08
5876	-106	5.80E-03	1068	-202	6.39E-04
5877	181	8.48E-08	1069	-201	6.70E-04
5880	119	8.99E-04	1072	181	3.45E-07
5883	-121	7.71E-03	1074	199	1.09E-05
5884	-212	3.56E-10	1075	-269	1.26E-07
5887	-382	5.19E-12	1084	212	1.93E-08
5890	-277	4.10E-12	1087	116	2.76E-04
5896	97	3.47E-03	1094	218	8.27E-09
5897	-183	2.87E-08	1097	-110	3.35E-04
5898	-203	1.75E-04	1098	-142	2.90E-05
5900	-228	3.09E-03	1100	-177	7.23E-06
5901	-192	2.83E-08	1104	114	4.44E-03
5903	250	3.29E-04	1110	-320	2.36E-23
5904	216	9.16E-13	1121	-236	4.58E-10
5905	-145	3.84E-03	1128	-150	3.99E-04
5906	209	1.75E-10	1129	-154	2.66E-04
5908	145	1.34E-03	1130	-215	1.58E-03
5913	-195	9.18E-03	1140	177	4.96E-08
5914	351	2.29E-23	1142	-105	4.84E-03
5916	149	2.20E-04	1145	138	4.31E-05
5917	148	1.72E-04	1147	117	7.23E-04
5918	-192	6.64E-05	1148	167	2.29E-07
5921	-210	2.24E-06	1152	192	2.62E-05
5922	-197	3.92E-05	1154	-167	3.18E-04
5923	150	6.62E-06	1158	91	8.73E-03
5924	-201	1.41E-08	1160	109	1.24E-03

5927	105	2.11E-03	1161	181	2.81E-08
5929	-179	1.35E-05	1162	103	4.10E-04
5930	-309	7.95E-17	1163	186	6.84E-04
5931	175	7.98E-06	1164	152	2.12E-04
5942	196	1.49E-05	1167	182	4.61E-08
5946	-103	4.61E-03	1170	-158	5.35E-09
5948	-120	3.22E-05	1171	169	2.87E-07
5952	-200	5.57E-09	1172	-200	1.91E-09
5953	-195	1.93E-08	1178	92	7.46E-04
5955	238	7.32E-09	1179	-128	2.13E-03
5956	-244	4.30E-04	1183	159	1.24E-06
5957	-194	2.74E-05	1185	119	7.70E-04
5966	244	1.53E-15	1186	94	3.25E-03
5968	-253	1.16E-16	1188	85	7.93E-03
5970	242	2.71E-13	1189	-109	6.86E-03
5971	349	1.77E-26	1195	252	7.97E-15
5972	91	5.05E-03	1202	171	1.30E-03
5975	125	7.94E-05	1213	146	1.83E-05
5979	273	1.13E-09	1214	103	4.09E-03
5982	91	6.21E-03	1222	-129	3.65E-05
5986	160	6.97E-06	1226	-166	2.45E-05
5989	80	5.12E-04	1229	-233	2.41E-12
5990	-98	6.45E-03	1230	191	1.27E-03
5992	-213	5.04E-17	1231	144	1.03E-03
5993	-180	1.34E-04	1237	-187	2.42E-06
5994	160	1.89E-06	1238	84	4.76E-03
5995	161	1.58E-06	1239	-223	1.46E-09
5996	156	3.62E-06	1241	213	3.36E-04
5997	156	3.91E-06	1244	342	6.59E-29
5998	-240	2.16E-13	1251	170	1.23E-05
6006	-127	1.63E-03	1252	-234	1.20E-08
6013	-197	2.18E-03	1255	85	2.70E-03
6015	-175	2.04E-07	1256	121	8.32E-04
6016	-168	5.19E-07	1260	102	1.18E-03
6025	-339	3.55E-04	1263	-157	1.27E-03
6029	-128	3.44E-03	1265	345	2.97E-16
6031	222	1.31E-11	1266	-183	1.41E-07
6033	-161	4.56E-04	1267	104	1.15E-03
6036	-361	1.28E-17	1268	-213	5.12E-04
6041	-75	5.15E-03	1270	-168	1.71E-05
6045	-186	8.19E-05	1272	-252	2.34E-05
6046	165	5.63E-04	1276	-137	1.40E-03

6050	-86	4.80E-04	1278	-169	3.02E-07
6052	-139	2.53E-04	1279	125	8.06E-04
6057	-128	9.85E-03	1281	216	5.81E-09
6061	-198	5.31E-04	1283	112	4.14E-03
6068	183	3.97E-09	1287	-401	6.48E-30
6069	-109	7.68E-06	1291	149	9.10E-06
6071	132	2.13E-05	1294	176	2.69E-09
6074	-102	4.65E-04	1295	153	1.21E-04
6075	-100	1.83E-05	1297	-237	1.63E-04
6081	123	5.28E-04	1299	-199	7.58E-05
6086	-351	3.30E-19	1305	140	1.15E-05
6087	-179	1.25E-07	1306	-278	2.30E-11
6088	-178	1.51E-07	1307	-284	1.03E-07
6089	-161	1.85E-06	1308	-165	4.72E-04
6092	-198	2.72E-05	1310	-212	3.59E-03
6093	-197	1.68E-05	1311	156	1.95E-03
6095	249	6.50E-03	1320	-104	3.98E-03
6096	224	2.68E-03	1327	-128	7.23E-05
6100	204	1.10E-04	1332	196	2.60E-05
6101	204	1.05E-04	1339	-193	8.80E-08
6102	-198	2.07E-09	1340	199	3.68E-04
6103	-252	1.79E-11	1346	-280	5.63E-16
6104	-115	3.49E-04	1350	-189	1.05E-05
6105	176	6.85E-08	1354	-240	5.40E-07
6111	-210	4.30E-08	1356	106	3.00E-03
6112	-113	1.43E-03	1364	266	4.13E-18
6117	-267	6.14E-15	1366	160	1.35E-06
6118	121	2.08E-04	1370	-416	1.33E-08
6124	113	1.60E-03	1373	130	4.83E-03
6130	-111	1.17E-03	1375	-121	4.13E-04
6134	-177	2.27E-07	1379	-119	6.46E-04
6135	-192	4.60E-03	1380	-443	3.89E-14
6136	-141	7.75E-05	1385	-261	5.02E-14
6137	-139	9.77E-05	1389	188	8.57E-04
6141	152	7.28E-06	1390	-429	3.92E-12
6142	-193	5.19E-08	1391	-145	4.46E-06
6143	-186	1.08E-07	1392	-142	6.99E-04
6145	-132	1.78E-04	1393	-210	8.59E-12
6152	199	5.25E-10	1395	131	2.66E-05
6154	-114	7.32E-07	1396	-227	2.79E-11
6158	-163	3.67E-07	1397	153	5.44E-06
6169	-202	5.42E-04	1400	-180	6.91E-04

6170	129	5.10E-03	1401	-222	5.54E-12
6172	117	5.89E-04	1402	-156	1.95E-05
6177	146	5.18E-06	1404	112	1.24E-03
6181	141	2.66E-05	1406	-285	7.99E-15
6186	189	1.32E-06	1409	185	2.41E-13
6187	142	2.73E-04	1410	-141	2.61E-05
6193	231	1.10E-03	1411	194	1.59E-06
6195	-106	2.68E-03	1415	-192	4.82E-09
6197	192	1.31E-06	1424	194	5.40E-08
6198	190	1.52E-06	1429	-234	2.17E-13
6200	150	5.35E-04	1430	-105	1.35E-03
6201	-109	1.08E-03	1431	139	2.43E-05
6204	-420	9.04E-18	1433	165	1.49E-07
6206	176	4.83E-03	1434	173	7.45E-09
6214	206	2.66E-09	1436	-210	1.54E-06
6219	260	2.61E-12	1438	110	3.64E-03
6221	205	9.76E-08	1439	223	1.20E-11
6225	134	4.46E-05	1443	129	4.92E-05
6229	-131	1.09E-06	1444	129	4.81E-05
6230	239	2.79E-13	1445	-185	7.99E-03
6232	-127	2.15E-05	1451	299	7.42E-09
6235	-274	3.65E-04	1455	228	1.57E-04
6240	-164	1.04E-05	1464	210	8.77E-12
6241	80	6.04E-03	1465	-115	1.92E-03
6242	-159	9.37E-04	1466	-124	3.59E-03
6245	332	2.69E-26	1467	111	1.75E-03
6246	-169	1.14E-04	1468	195	8.14E-10
6249	284	3.21E-18	1472	-199	2.40E-09
6250	-261	3.36E-15	1475	-106	1.08E-03
6252	-109	9.01E-03	1484	193	4.78E-03
6253	-248	7.28E-14	1491	227	3.46E-10
6257	-185	4.14E-03	1498	-295	1.78E-20
6258	-334	4.25E-16	1503	-101	1.99E-03
6261	147	1.14E-08	1505	235	5.49E-08
6263	-146	1.72E-04	1506	-201	4.39E-07
6266	-239	4.31E-04	1507	286	7.03E-08
6267	-424	1.02E-14	1512	-293	7.93E-04
6271	-277	6.26E-04	1522	-126	2.15E-03
6279	219	6.56E-03	1524	118	6.80E-04
6284	99	4.12E-03	1527	-170	2.87E-07
6285	182	4.86E-10	1530	-255	1.33E-13
6292	-224	3.42E-03	1533	112	5.17E-04
6294	-151	8.19E-06	1541	175	1.54E-06

6297	222	3.36E-09	1547	-119	3.11E-04
6303	362	7.87E-30	1548	-237	1.22E-14
6304	365	2.23E-30	1552	164	5.32E-07
6305	143	1.70E-03	1554	169	1.86E-03
6310	331	1.45E-26	1555	264	3.13E-04
6315	105	2.34E-03	1558	178	2.17E-07
6321	167	4.25E-05	1571	-247	4.43E-12
6323	137	3.05E-03	1572	-219	1.41E-04
6325	121	5.84E-04	1573	133	5.67E-05
6328	-222	1.77E-10	1575	-222	2.91E-11
6329	-113	1.28E-03	1580	153	1.36E-06
6330	-168	2.90E-05	1581	150	7.96E-04
6332	243	4.03E-04	1583	-176	8.75E-04
6333	180	2.05E-07	1587	-333	1.81E-05
6337	-314	1.34E-18	1588	-166	3.48E-06
6340	-276	9.48E-10	1596	-160	7.26E-07
6345	86	9.10E-03	1599	303	1.13E-17
6346	-156	7.20E-03	1601	-120	2.62E-03
6348	100	2.36E-03	1604	-123	4.06E-03
6351	-157	9.93E-07	1607	-130	5.38E-03
6352	-333	3.17E-08	1612	107	7.95E-04
6356	109	1.33E-03	1614	188	1.93E-07
6358	152	1.15E-05	1615	-183	2.19E-03
6359	-200	2.46E-06	1616	225	3.99E-12
6360	-267	6.80E-05	1618	111	1.37E-03
6361	144	8.22E-06	1623	190	3.55E-10
6365	-184	6.30E-09	1625	284	1.06E-20
6369	90	8.07E-03	1628	-115	3.18E-03
6371	163	2.32E-03	1629	-114	3.47E-03
6373	281	1.35E-18	1630	-196	4.09E-08
6374	145	1.36E-03	1635	-170	3.18E-08
6375	161	1.85E-05	1636	-338	6.74E-08
6376	185	6.64E-08	1637	172	8.64E-07
6377	241	2.44E-06	1640	-227	8.66E-08
6381	-332	2.05E-26	1642	262	8.94E-13
6382	-144	1.78E-05	1643	187	2.61E-06
6385	-112	1.23E-04	1644	-356	1.27E-11
6388	-127	7.26E-03	1650	-127	1.18E-03
6394	130	6.59E-05	1652	185	6.36E-07
6397	-195	2.88E-05	1653	335	2.01E-27
6398	-325	1.59E-14	1656	99	6.18E-03
6402	-205	9.27E-05	1662	-188	2.55E-03

6405	-100	5.08E-03	1663	-232	1.11E-05
6408	196	1.23E-08	1664	-101	4.04E-04
6411	-191	8.56E-09	1677	240	9.13E-13
6415	-294	5.36E-16	1681	262	4.40E-13
6416	283	3.27E-16	1684	147	3.84E-04
6417	211	2.50E-08	1686	270	4.74E-18
6420	-170	1.88E-07	1696	-379	5.69E-07
6423	80	8.59E-04	1699	382	5.17E-08
6431	-297	1.48E-04	1702	144	5.32E-03
6434	238	1.26E-12	1705	-190	1.98E-03
6436	250	7.15E-14	1710	-258	1.33E-15
6437	149	4.99E-04	1718	88	7.15E-03
6438	180	2.09E-09	1722	113	4.31E-04
6439	-129	1.51E-04	1724	-112	7.29E-04
6440	122	1.63E-04	1727	97	2.95E-03
6447	119	7.22E-03	1730	246	2.00E-13
6451	-141	6.60E-05	1731	-223	4.52E-11
6452	-234	5.93E-10	1737	185	3.16E-05
6455	156	1.67E-05	1740	-141	1.58E-04
6459	159	1.41E-06	1741	159	5.59E-06
6461	-306	4.26E-14	1743	-375	9.04E-09
6463	-170	1.07E-07	1744	295	2.33E-10
6464	-174	7.47E-07	1745	298	5.90E-11
6468	-179	1.29E-03	1751	293	1.52E-18
6469	109	5.02E-03	1752	270	8.26E-15
6473	-222	1.10E-06	1764	-99	4.07E-03
6476	-194	6.25E-03	1772	-188	3.01E-03
6477	203	6.76E-05	1773	-197	2.36E-03
6485	-336	5.76E-14	1778	-164	1.01E-03
6487	115	4.35E-04	1779	170	2.25E-06
6498	-153	1.30E-06	1780	271	4.06E-17
6499	-229	1.63E-03	1784	271	1.23E-05
6505	-232	6.15E-11	1788	-273	3.98E-14
6509	-93	6.32E-03	1790	-166	1.12E-11
6515	176	3.47E-03	1794	91	8.91E-03
6523	-239	2.16E-19	1798	135	2.20E-03
6530	-190	2.46E-09	1799	155	1.56E-06
6531	160	5.39E-04	1803	-202	1.23E-04
6534	-168	1.25E-03	1804	-372	1.18E-08
6535	-212	6.75E-12	1805	-204	9.42E-07
6539	-114	1.69E-03	1806	192	7.93E-04
6540	-227	1.92E-10	1808	94	4.60E-03

6544	216	3.82E-12	1813	148	9.87E-06
6545	119	4.03E-03	1815	-231	1.70E-04
6549	-125	1.27E-03	1820	-281	2.38E-11
6551	-336	3.24E-07	1825	-127	9.83E-05
6555	99	3.47E-03	1827	-281	2.20E-20
6557	77	7.84E-04	1836	-153	9.42E-05
6561	-210	3.55E-03	1843	-158	2.17E-04
6565	122	4.19E-04	1846	-280	8.65E-07
6566	-209	5.60E-05	1847	-225	1.97E-08
6568	-180	3.47E-09	1850	166	7.01E-03
6571	-453	3.64E-12	1851	-130	3.64E-05
6576	276	4.05E-04	1853	146	9.25E-03
6580	-189	1.13E-05	1857	111	1.30E-03
6582	200	3.54E-09	1858	-152	3.02E-06
6583	-97	5.03E-03	1859	-114	2.01E-03
6591	188	4.43E-06	1862	-275	4.58E-15
6600	110	4.94E-03	1864	-187	2.25E-06
6601	-192	1.05E-05	1867	-179	5.16E-04
6606	222	2.62E-04	1869	205	3.39E-08
6607	-136	7.49E-05	1870	-308	5.22E-04
6614	-182	8.63E-04	1871	-158	4.25E-06
6615	121	1.69E-04	1875	-223	3.14E-05
6617	204	8.01E-03	1876	177	1.27E-07
6619	-222	3.51E-11	1879	-205	2.05E-06
6626	-247	2.34E-11	1884	-296	1.70E-16
6633	-205	3.03E-08	1889	-208	9.61E-11
6635	-176	6.72E-04	1890	238	1.76E-07
6639	311	1.54E-21	1893	189	2.04E-05
6640	-226	6.06E-07	1896	107	9.07E-04
6643	178	2.75E-08	1904	152	1.70E-06
6644	117	2.22E-04	1907	-106	5.63E-03
6648	-331	1.58E-06	1914	122	2.12E-04
6651	-130	3.63E-03	1919	-178	3.50E-03
6658	-129	5.44E-05	1920	124	2.77E-03
6659	159	5.13E-07	1922	-276	2.09E-18
6660	-242	1.48E-10	1924	-145	1.79E-04
6668	114	1.44E-03	1925	-126	1.31E-03
6669	154	4.32E-05	1926	186	8.19E-08
6671	-210	1.44E-09	1927	-268	2.52E-07
6672	-132	7.83E-06	1928	-431	3.46E-37
6675	-148	1.35E-03	1929	135	2.06E-05
6676	-356	1.33E-18	1930	133	2.57E-05
6678	241	2.60E-06	1931	223	1.90E-05

6681	198	6.29E-10	1932	-245	2.23E-05
6683	-186	7.46E-08	1934	210	2.62E-03
6684	130	1.53E-03	1938	-318	3.71E-17
6690	-363	4.98E-11	1939	289	1.47E-20
6697	114	5.01E-04	1941	326	9.60E-22
6701	-144	3.42E-03	1942	-127	4.31E-03
6706	-202	5.02E-09	1944	150	2.86E-07
6709	153	2.36E-05	1947	176	4.46E-04
6711	-358	4.63E-08	1950	-221	7.17E-04
6714	-296	1.46E-20	1954	-187	9.19E-04
6718	-216	2.87E-05	1962	-104	1.57E-03
6722	-186	9.83E-07	1963	-282	3.49E-04
6724	260	8.78E-10	1965	130	1.13E-03
6725	-166	1.01E-04	1968	-95	4.89E-03
6726	-249	1.80E-08	1969	177	7.90E-06
6727	209	1.09E-05	1971	168	2.20E-07
6735	193	3.27E-05	1974	-217	8.49E-11
6749	-254	2.33E-08	1978	-271	1.57E-07
6751	-236	1.83E-08	1980	158	3.03E-05
6755	161	1.85E-06	1981	116	7.60E-04
6757	-290	9.13E-12	1988	-208	3.40E-08
6760	-101	3.44E-03	1989	112	1.15E-03
6762	-108	9.07E-04	1990	-339	4.00E-10
6763	176	4.83E-06	1993	110	3.27E-03
6765	196	5.83E-12	1996	223	3.06E-06
6766	-186	8.77E-11	1997	178	2.14E-03
6770	-124	2.00E-04	1999	99	1.42E-03
6774	-319	2.25E-13	2002	-536	1.94E-09
6776	98	4.60E-03	2004	198	2.13E-05
6780	-210	3.23E-09	2007	-140	8.65E-04
6783	-105	1.98E-03	2009	-170	2.23E-07
6788	221	7.14E-04	2010	95	3.64E-03
6798	141	7.72E-03	2011	-116	2.17E-03
6799	219	1.83E-11	2015	-211	3.35E-04
6817	-212	2.09E-03	2018	200	1.20E-09
6818	-184	6.93E-08	2019	206	8.85E-10
6819	-319	1.10E-07	2020	-155	2.23E-04
6820	-440	4.43E-10	2035	-117	8.85E-05
6821	-129	8.46E-03	2043	-112	2.10E-03
6822	-131	7.83E-03	2044	-243	1.00E-11
6823	-129	8.41E-03	2045	92	5.95E-03
6824	-117	2.14E-03	2046	-171	8.98E-07

6833	-87	9.50E-03	2048	160	2.49E-06
6834	-115	2.79E-06	2049	194	6.82E-09
6835	91	4.56E-03	2052	-134	2.62E-03
6839	261	1.58E-18	2056	-251	2.73E-14
6843	-211	1.60E-08	2059	216	2.83E-09
6845	208	4.53E-04	2071	159	2.23E-03
6849	-539	2.95E-12	2072	-153	3.30E-03
6854	-196	1.80E-05	2074	-107	4.62E-03
6856	-251	2.04E-13	2075	-177	3.30E-07
6857	-96	3.39E-03	2077	305	2.03E-29
6862	-299	2.71E-06	2090	-161	1.83E-06
6864	-193	4.16E-09	2092	-165	5.79E-04
6865	105	5.78E-03	2093	-199	1.03E-16
6866	141	5.49E-03	2094	-251	2.24E-13
6869	-235	1.02E-11	2096	-192	4.50E-09
6870	-261	5.86E-05	2098	138	7.02E-03
6879	-123	2.70E-04	2099	-169	1.85E-03
6886	-186	1.37E-07	2107	270	6.37E-09
6889	-162	1.03E-06	2110	201	2.48E-11
6891	-185	8.99E-07	2114	-253	1.01E-05
6894	163	1.71E-04	2115	-216	5.35E-04
6895	188	7.46E-08	2116	-275	1.50E-04
6904	83	2.90E-04	2118	160	1.75E-05
6909	-201	1.08E-03	2121	134	2.40E-03
6910	179	3.93E-05	2123	174	1.12E-05
6916	122	9.20E-04	2125	-228	1.55E-03
6919	-120	1.02E-03	2126	211	6.03E-09
6926	117	2.84E-03	2131	-177	1.55E-03
6928	206	5.64E-08	2133	116	9.82E-04
6936	-140	1.78E-04	2134	100	3.82E-03
6937	184	5.75E-04	2137	144	3.09E-09
6938	-115	1.04E-04	2140	170	7.72E-05
6939	169	4.81E-05	2141	64	7.44E-03
6942	-117	1.58E-05	2145	-153	3.70E-06
6945	153	2.35E-06	2163	-153	1.65E-03
6953	324	1.95E-21	2172	235	7.30E-10
6960	-100	4.36E-03	2176	97	2.15E-03
6962	224	2.43E-11	2177	162	3.54E-06
6967	-136	3.61E-06	2178	142	2.25E-04
6980	-132	4.33E-05	2183	88	4.80E-03
6991	-161	1.58E-05	2187	-247	5.67E-08
6993	-174	4.64E-03	2195	-164	2.57E-06

6996	332	1.38E-25	2200	-193	1.37E-03
6998	-266	1.35E-08	2203	-174	4.35E-04
6999	-267	4.79E-16	2210	-166	8.26E-06
7004	135	2.92E-05	2215	149	4.79E-05
7011	-204	6.40E-09	2217	112	5.05E-03
7012	-202	9.42E-09	2218	190	4.09E-09
7013	-201	2.66E-09	2224	114	4.18E-04
7023	-116	2.97E-03	2227	-214	6.67E-08
7025	-98	2.31E-03	2228	-250	1.83E-05
7027	-175	9.46E-05	2229	-189	6.23E-06
7028	227	6.82E-05	2231	251	1.57E-08
7044	-242	3.64E-10	2232	-132	3.69E-03
7047	-101	8.87E-03	2237	-242	9.04E-05
7049	169	9.92E-08	2239	66	9.21E-03
7052	-327	4.67E-05	2249	-104	6.74E-03
7053	-137	1.25E-07	2250	-275	1.48E-16
7055	-109	3.01E-03	2251	-244	2.29E-10
7063	159	2.66E-12	2257	-107	2.78E-03
7064	191	1.99E-08	2261	-162	3.09E-06
7068	250	4.67E-09	2271	99	1.55E-03
7069	-234	1.34E-07	2275	-178	3.47E-08
7072	-150	7.99E-06	2284	-221	3.88E-11
7073	-150	7.99E-06	2285	-218	1.22E-10
7078	-111	7.95E-03	2291	-136	1.43E-03
7079	176	7.26E-08	2293	369	4.24E-31
7082	145	1.14E-03	2294	364	2.25E-30
7085	-133	8.16E-05	2300	346	6.67E-29
7086	-307	2.44E-19	2303	264	1.17E-11
7088	-221	1.66E-06	2315	86	7.84E-03
7097	-118	1.46E-03	2316	197	4.90E-08
7098	184	2.11E-08	2318	-115	1.02E-03
7101	-147	8.81E-07	2323	208	1.09E-12
7106	180	1.47E-07	2324	-113	4.33E-03
7112	-218	5.00E-10	2325	-240	1.76E-11
7116	224	1.67E-12	2329	-185	5.27E-07
7123	135	1.14E-04	2335	-337	1.45E-19
7124	123	4.33E-04	2336	89	8.83E-03
7128	223	1.04E-11	2343	156	1.27E-06
7129	-168	4.31E-07	2344	96	4.46E-03
7130	257	1.79E-07	2345	-134	5.39E-05
7135	408	3.15E-06	2354	-357	1.88E-06
7136	375	1.38E-05	2358	129	2.44E-03
7139	-231	9.67E-10	2364	-174	2.34E-07

7140	-229	3.70E-03	2369	-208	9.11E-11
7145	132	5.31E-05	2371	-117	9.56E-03
7146	146	1.05E-05	2373	-285	1.22E-08
7147	149	6.70E-06	2388	-122	1.79E-06
7149	190	3.22E-06	2389	-241	2.09E-11
7150	132	2.29E-04	2390	-211	2.88E-07
7151	130	2.64E-04	2394	-180	7.10E-08
7160	195	6.66E-08	2396	-195	2.75E-05
7161	-194	7.72E-08	2399	-125	3.77E-04
7165	-144	1.42E-03	2401	-129	6.60E-04
7166	-182	5.23E-08	2406	110	7.33E-04
7172	188	6.07E-09	2407	322	7.17E-05
7180	-236	5.69E-05	2413	221	7.40E-09
7181	-264	4.62E-04	2414	216	1.13E-08
7190	241	5.09E-13	2422	-237	5.76E-12
7195	-158	1.37E-05	2423	93	9.41E-05
7197	-225	3.01E-11	2424	-167	6.58E-04
7198	-157	2.28E-04	2427	-194	1.01E-08
7199	-223	1.44E-08	2428	153	4.72E-03
7204	167	6.10E-07	2429	147	6.36E-03
7208	-169	9.70E-05	2432	152	1.72E-05
7209	303	6.86E-12	2433	193	5.35E-04
7213	86	2.98E-03	2436	136	9.97E-08
7218	-223	3.31E-12	2442	212	4.72E-05
7219	-256	1.59E-11	2443	-177	5.83E-04
9073	155	8.21E-05	9264	99	1.55E-03
9082	-159	1.83E-06	9269	-240	9.60E-13
9084	-274	6.03E-11	9272	141	1.14E-03
9087	-184	5.05E-10	9281	-320	2.55E-19
9089	-205	5.76E-08	9284	-112	1.23E-04
9090	152	8.64E-03	9288	-152	6.11E-06
9093	92	9.93E-03	9289	-243	6.40E-06
9094	139	4.38E-04	9290	-141	2.74E-05
9095	-332	4.16E-05	9293	-148	2.01E-05
9096	-143	1.44E-05	9294	-153	8.89E-06
9097	-192	3.05E-04	9300	145	8.73E-06
9101	131	3.76E-05	9302	123	6.54E-03
9106	-259	8.24E-04	9305	106	1.02E-03
9110	-307	7.65E-07	9306	161	1.58E-04
9113	-220	1.97E-05	9311	-123	2.19E-04
9120	-195	5.79E-03	9314	188	3.51E-05
9122	193	1.55E-07	9315	-146	1.65E-05

9125	-304	1.01E-06	9319	129	5.84E-05
9127	-252	1.22E-13	9326	-185	9.12E-05
9129	340	4.58E-28	9327	-281	2.78E-07
9132	-171	1.72E-08	9329	-122	8.03E-05
9135	110	1.32E-03	9330	-164	6.79E-06
9136	-204	3.31E-03	9342	-204	1.84E-05
9138	110	6.40E-04	9347	-257	2.66E-15
9142	161	2.42E-06	9348	-98	1.75E-05
9150	129	3.22E-05	9349	-223	3.21E-07
9159	87	1.24E-03	9352	124	3.34E-04
9161	-124	1.56E-04	9353	123	3.79E-04
9165	157	3.19E-11	9355	254	1.24E-15
9166	-196	3.71E-09	9360	-158	2.04E-04
9173	246	3.06E-13	9361	-131	9.26E-05
9178	-220	4.55E-05	9367	-204	3.82E-06
9179	-214	6.08E-05	9368	320	9.42E-25
9182	-94	4.71E-03	9369	176	5.44E-08
9183	-247	3.02E-15	9371	-177	1.69E-06
9184	132	4.21E-05	9373	145	2.24E-05
9187	-159	9.08E-10	9375	-222	3.74E-03
9190	157	3.86E-06	9376	266	6.43E-11
9191	-89	9.96E-03	9378	94	4.79E-03
9192	-176	2.32E-07	9381	-102	6.44E-03
9194	118	7.62E-04	9383	-298	5.96E-19
9195	-228	1.55E-03	9386	-141	1.19E-04
9196	-187	8.68E-07	9388	-313	2.27E-09
9200	-122	1.39E-03	9390	-155	2.07E-03
9201	176	7.01E-07	9391	-237	6.22E-05
9204	-186	2.56E-04	9394	-292	1.11E-10
9208	-143	2.81E-03	9397	-275	1.99E-14
9209	130	4.92E-03	9402	-262	3.02E-11
9213	265	8.87E-11	9405	-145	2.89E-03
9219	-133	7.55E-05	9406	-103	9.29E-06
9222	236	2.33E-05	9410	105	1.40E-03
9224	-153	1.41E-03	9421	-182	2.21E-05
9225	158	2.08E-10	9423	-125	9.65E-04
9227	-109	4.15E-03	9424	-199	8.08E-07
9228	136	1.33E-05	9434	-140	3.53E-05
9232	-186	2.05E-05	9437	-330	3.13E-07
9237	-171	2.55E-08	9444	185	6.14E-03
9239	176	2.07E-05	9445	-177	1.93E-05
9241	-150	1.72E-05	9447	-212	3.02E-04

9244	-153	2.23E-06	9448	-139	4.95E-05
9248	201	5.39E-08	9452	-233	4.90E-07
9257	156	1.84E-03	9459	-155	1.21E-05
9259	-191	1.23E-03	9463	140	5.17E-05
9260	-142	2.63E-05	9468	-203	1.70E-07
10104	-87	7.30E-03	10323	-125	2.99E-04
10105	-101	3.31E-03	10324	-125	5.05E-05
10107	-102	3.91E-03	10325	-229	1.64E-03
10110	118	5.19E-04	10333	259	1.31E-15
10114	260	2.22E-08	10337	198	4.11E-04
10115	-194	2.88E-08	10341	-222	8.71E-09
10117	-195	5.29E-09	10343	158	1.64E-06
10119	-115	3.54E-04	10346	-408	1.90E-05
10123	62	7.20E-03	10353	241	2.60E-06
10124	-257	1.39E-14	10355	183	6.11E-07
10127	-181	4.45E-04	10358	-219	9.46E-07
10132	197	7.85E-08	10362	-164	7.60E-06
10138	-176	7.93E-03	10366	-141	1.80E-03
10139	-241	1.58E-14	10368	191	3.83E-05
10148	-236	6.19E-12	10369	-121	3.09E-03
10150	-145	1.73E-06	10370	216	3.16E-12
10151	-239	3.38E-05	10371	-95	5.60E-03
10156	-219	3.71E-03	10372	-112	4.10E-06
10157	-141	8.02E-06	10373	-198	6.32E-09
10160	320	6.74E-25	10374	-126	3.91E-05
10161	-328	5.47E-11	10375	-187	2.80E-06
10162	-274	1.07E-15	10383	-173	1.18E-03
10163	168	1.90E-06	10385	-114	8.03E-04
10176	163	1.31E-06	10386	-115	7.05E-04
10177	248	6.89E-14	10387	-167	4.08E-07
10182	129	9.49E-03	10390	-123	7.00E-03
10183	-244	8.14E-04	10396	-185	1.39E-04
10187	-110	2.40E-04	10397	119	8.14E-04
10194	-155	9.61E-06	10399	123	5.55E-04
10195	219	1.56E-05	10400	-183	5.90E-04
10198	97	4.87E-03	10402	-202	2.15E-10
10199	271	3.07E-17	10404	-161	1.45E-07
10200	379	4.86E-25	10408	-250	3.22E-12
10208	135	8.33E-05	10409	109	6.94E-04
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10222	-226	3.32E-03	10415	-128	5.70E-03
10226	133	4.95E-05	10419	207	5.14E-04
10230	117	5.96E-03	10422	145	2.91E-03

10233	147	5.33E-05	10423	254	1.54E-11
10250	-120	6.19E-03	10426	-116	3.50E-04
10253	120	1.89E-03	10427	-159	1.43E-03
10257	212	7.75E-05	10436	-221	5.66E-04
10258	-206	5.89E-06	10438	387	1.59E-38
10262	154	8.34E-06	10444	-361	6.26E-22
10265	-180	6.93E-04	10448	-212	6.05E-09
10268	-171	4.75E-08	10449	-133	8.31E-05
10269	-210	2.06E-03	10453	-241	3.63E-03
10272	231	5.07E-08	10454	129	2.95E-05
10274	-275	6.64E-10	10456	-136	1.52E-03
10277	-147	2.47E-03	10461	-148	2.55E-03
10282	215	5.38E-04	10462	142	2.11E-05
10283	-215	5.57E-08	10468	-97	9.16E-04
10286	-157	2.09E-05	10474	-189	1.99E-06
10287	-106	1.55E-03	10480	-213	1.03E-06
10290	138	7.88E-05	10481	118	1.86E-03
10291	-126	1.33E-04	10483	183	4.32E-03
10292	-229	1.37E-05	10485	111	2.75E-03
10293	178	7.14E-03	10487	-234	2.88E-08
10300	-188	4.51E-07	10494	150	6.35E-08
10302	142	1.67E-05	10495	-165	2.44E-05
10305	-197	8.01E-09	10498	-428	7.37E-11
10311	-261	2.12E-04	10503	119	9.32E-04
10315	-252	1.02E-07	10505	171	1.29E-07
10317	-235	5.96E-10	10508	-92	8.23E-03
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11362	-205	3.09E-03	11686	205	3.40E-10
11374	-133	6.04E-05	11692	-205	6.15E-05
11382	-213	4.70E-10	11695	-126	5.65E-03
11384	-155	7.31E-06	11696	-228	1.38E-03
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11390	-179	5.60E-06	11702	-101	2.36E-03
11396	110	9.43E-04	11705	104	2.74E-03
11399	-199	4.78E-08	11714	-165	3.74E-06
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11406	-176	2.16E-06	11722	-119	2.40E-04
11408	-219	5.25E-08	11726	108	9.45E-04
11410	-97	3.62E-03	11728	-262	9.69E-08
11412	119	4.43E-04	11732	98	5.85E-03
11413	212	5.36E-04	11733	-208	5.61E-03

11415	-346	6.33E-08	11744	-116	4.19E-03
11417	298	2.71E-17	11749	163	6.03E-03
11421	-225	2.31E-03	11756	104	2.05E-03
11422	-143	1.82E-03	11757	-170	5.16E-06
11425	-96	5.80E-03	11760	-125	4.26E-04
11427	-245	1.20E-05	11772	167	1.17E-04
11440	-191	3.99E-04	11776	-132	1.18E-04
11442	90	6.87E-03	11780	133	1.77E-04
11443	-103	6.01E-03	11788	-398	2.45E-09
11444	119	1.43E-03	11803	-127	2.18E-03
11446	157	5.07E-05	11809	-126	1.74E-03
11450	-208	7.75E-08	11815	170	1.35E-06
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11467	-108	6.24E-04	11825	140	1.55E-05
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11492	-97	3.98E-03	11858	126	3.17E-05
11495	203	5.38E-11	11862	293	1.46E-07
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11497	299	1.47E-14	11864	-119	3.09E-04
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11547	211	1.50E-08	11888	-331	5.21E-09
11549	-277	1.83E-09	11890	-145	1.65E-06
11553	287	1.72E-17	11895	288	4.30E-07
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11556	323	1.69E-14	11897	106	3.22E-03
11569	314	2.79E-20	11898	-241	1.92E-11
11574	-310	9.05E-08	11900	-345	3.31E-14
11593	127	1.64E-03	11901	98	2.05E-03
11594	229	1.24E-12	11902	-277	3.71E-04
11600	-99	3.63E-03	11908	123	2.88E-04
11601	-97	1.85E-03	11915	-279	2.26E-17
11603	186	5.80E-06	11929	109	3.69E-05
11605	-287	3.18E-17	11931	83	9.09E-03
11607	205	1.60E-08	11934	-181	1.50E-07
11618	188	1.02E-07	11935	121	1.63E-03
11619	124	1.20E-04	11936	-125	6.40E-05
11622	129	9.16E-05	11940	-238	3.85E-13
11638	-173	4.94E-03	11945	105	1.72E-03

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11652	-232	1.97E-06	11966	114	9.85E-03
11659	-118	2.67E-04	11967	176	4.13E-04
12415	167	3.34E-03	13565	-138	2.26E-04
12423	-133	1.17E-04	13567	106	1.63E-03
12433	-155	1.40E-06	13575	240	2.05E-03
12443	164	3.59E-06	13578	203	3.24E-10
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12456	148	2.40E-06	13592	-268	2.56E-04
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12465	-402	3.59E-12	13609	231	4.99E-11
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12471	-150	2.32E-04	13632	-122	7.73E-03
12477	-276	2.23E-09	13637	-107	2.88E-03
12482	-272	1.60E-08	13642	183	1.27E-07
12483	184	2.81E-07	13646	174	1.29E-07
12486	204	1.74E-03	13652	88	8.73E-03
12487	-237	4.17E-04	13656	-135	1.25E-06
12489	-142	2.24E-03	13661	-341	2.73E-05
12491	103	2.28E-03	13663	-198	1.62E-08
12493	-211	1.10E-10	13667	-114	5.70E-03
12496	257	1.36E-08	13668	182	3.00E-05
12498	125	5.05E-05	13675	-86	8.22E-03
12506	123	5.46E-03	13676	168	1.71E-03
12509	-246	4.39E-08	13687	-110	1.50E-03
12510	-139	5.75E-04	13700	-163	3.79E-06
12518	119	1.78E-04	13706	297	8.12E-09
12519	-201	9.84E-08	13707	-414	2.38E-08
12521	244	2.93E-14	13710	91	1.72E-03
12524	233	4.28E-12	13712	-99	4.52E-03
12529	178	1.72E-07	13713	-129	1.39E-04
12534	-172	7.98E-05	13716	-95	3.14E-03
12536	-179	2.25E-07	13720	-141	1.71E-03
12540	198	1.13E-03	13734	100	3.82E-03
12542	-96	4.51E-03	13737	139	8.27E-04
12544	160	1.96E-05	13741	-148	1.24E-05
12546	129	8.42E-05	13755	114	9.03E-03
12547	-152	6.94E-06	13760	-139	2.43E-05

12549	181	2.03E-04	13763	-282	3.35E-05
12552	-192	2.52E-04	13766	-127	1.15E-03
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14738	-231	4.19E-04	12834	112	6.71E-03
14739	121	1.05E-04	12837	180	2.00E-07
14755	-126	7.25E-03	12840	-267	5.72E-06
14773	-258	4.50E-12	12846	166	2.10E-06
14777	-158	4.25E-06	12847	-248	1.69E-05
14778	106	7.91E-04	12849	-118	1.77E-04
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14783	98	1.59E-03	12856	198	5.54E-09
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14806	-311	6.47E-08	12882	-204	1.10E-05
14807	-194	1.58E-04	12885	230	1.46E-12
14808	157	1.21E-06	12886	-141	2.04E-03
14817	-287	1.46E-08	12887	299	1.03E-14
14825	-140	3.22E-05	12888	-135	3.86E-04
14828	93	3.34E-03	12889	231	9.81E-14
14836	-153	3.58E-03	12893	-182	1.86E-07
14839	-200	2.18E-09	12894	-167	6.81E-03
14841	-100	8.08E-03	12897	177	3.81E-04
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14860	106	1.03E-03	12905	-259	2.50E-11
14861	183	2.29E-03	12917	104	2.03E-03
14872	-306	7.10E-05	12926	-249	4.75E-06
14873	-148	1.25E-05	12927	-284	4.16E-19
14883	326	5.60E-06	12933	-189	7.35E-05
14884	-98	4.07E-03	12938	-252	6.18E-05
14886	197	9.10E-10	12940	201	2.56E-09
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14904	212	8.69E-11	12948	-210	1.18E-06
14908	94	4.78E-03	12952	255	1.18E-14
14915	135	3.52E-05	12962	174	1.67E-03
14924	200	2.03E-03	12963	-88	8.91E-03
14925	255	5.81E-16	12967	139	7.21E-03
14932	-134	7.72E-03	12969	132	8.24E-08
14937	259	7.50E-17	12977	268	8.02E-10
14940	247	5.61E-08	12981	-114	3.20E-03
14957	103	3.39E-03	12987	109	1.34E-03
14966	-314	1.08E-18	12993	189	3.10E-09

14972	187	4.21E-09	12994	-141	1.48E-05
14973	190	3.08E-05	12995	168	7.79E-07
14974	-332	1.85E-16	12996	99	1.80E-03
14975	206	9.53E-08	12998	202	2.50E-08
14989	-332	1.61E-08	12999	-229	1.65E-03
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14999	-355	1.51E-07	13001	-145	5.98E-05
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15003	-237	5.50E-13	13006	119	2.92E-03
15008	-235	5.93E-07	13009	-303	5.16E-16
15012	-487	2.73E-08	13018	-128	1.06E-03
15026	-101	3.37E-03	13020	130	3.62E-05
15030	-260	4.77E-03	13024	314	1.32E-06
15033	-148	3.89E-03	13025	135	1.67E-03
15042	-210	9.45E-06	13038	193	2.21E-03
15043	93	8.48E-03	13043	255	8.76E-15
15047	-147	9.84E-05	13051	245	2.36E-15
15060	-252	4.88E-13	13063	-309	1.95E-11
15062	-545	1.19E-14	13065	-169	3.61E-06
15078	-89	4.35E-03	13070	-305	4.44E-05
15079	-119	8.37E-03	13072	-324	1.27E-05
15086	-158	2.40E-06	13075	256	8.91E-15
15104	124	8.40E-04	13086	-579	7.38E-10
15110	-167	3.28E-06	13089	-256	6.54E-07
14090	-144	3.47E-03	10748	98	7.46E-03
14093	188	2.82E-07	10752	-161	2.27E-06
14101	130	2.89E-03	10755	160	5.31E-05
14104	-136	2.08E-04	11977	-164	5.55E-07
14106	123	2.60E-05	11983	317	7.25E-06
14111	-220	2.98E-10	11999	180	7.34E-07
14113	256	1.81E-13	12000	-230	4.46E-12
14125	-145	4.15E-04	12005	-192	2.88E-03
14127	-126	5.13E-03	12010	152	7.17E-05
14130	137	1.78E-03	12011	-147	3.61E-04
14131	-169	1.69E-07	12012	-187	1.55E-03
14136	-122	4.56E-04	12013	-140	4.86E-05
14153	-191	9.29E-06	12022	-263	1.41E-07
14154	-102	2.58E-03	12032	322	2.39E-18
14164	-161	4.74E-06	12036	149	1.04E-05
14170	239	5.67E-14	12045	-278	2.84E-05
14178	-161	1.07E-09	12058	151	2.57E-06
14182	100	2.69E-03	12060	156	4.81E-04

14189	125	4.74E-03
14191	-246	8.52E-12
14194	-244	1.25E-06
14195	-272	1.18E-10
14197	-237	1.57E-07
14206	267	5.46E-09
14213	99	3.02E-03
14222	-304	4.55E-06
14237	-254	1.82E-08
14244	-314	8.50E-25
14246	-272	1.07E-15
14253	151	2.09E-03
14259	-353	4.65E-08
14265	-118	5.47E-04
14269	135	1.35E-03

12061	105	1.21E-03
12065	-187	1.48E-03
12066	228	3.52E-11
12073	-238	4.26E-07
14278	121	1.32E-04
14281	123	3.75E-03
14284	-186	1.62E-03
14290	-197	2.21E-05
14295	108	1.25E-03
14296	-269	8.64E-17
14297	-141	1.70E-05
14298	144	2.31E-03
14300	-113	2.01E-03
14301	165	1.68E-08
14307	221	1.36E-11

A	B	C
811	315	3.20E-07
812	231	9.41E-09
827	160	9.05E-07
829	282	5.16E-12
837	-173	1.83E-05
838	-143	6.09E-06
839	-138	1.36E-05
840	-329	8.69E-11
841	-91	8.43E-03
842	-203	2.68E-09
844	205	2.49E-09
846	-334	1.16E-14
847	138	2.14E-04
849	110	1.53E-03
850	87	9.71E-03
854	-145	8.63E-05
855	115	2.50E-03
858	-198	1.88E-09
864	199	2.49E-09
865	178	1.31E-04
867	-155	3.95E-06
868	-173	7.23E-05
870	216	1.81E-10
871	-99	5.83E-03
875	-128	9.43E-03
876	-174	3.68E-08
882	-252	9.06E-12
886	120	2.82E-03
888	-148	4.20E-04
890	-146	3.41E-06
900	182	1.11E-08
901	-184	1.61E-08
905	123	2.07E-04
906	386	1.11E-07
919	293	1.20E-07
928	204	1.11E-10
934	-131	5.76E-05
936	94	7.16E-03
937	-228	1.96E-03
939	206	2.54E-08

944	-163	6.98E-04
945	113	4.86E-04
949	-417	3.44E-35
954	261	5.47E-15
960	-90	5.44E-03
962	170	5.00E-05
963	-324	3.20E-08
964	220	9.63E-09
972	141	7.06E-03
975	120	2.84E-04
979	368	9.84E-31
982	118	2.78E-03
983	-168	1.26E-03
984	217	6.78E-10
989	111	2.76E-03
993	109	6.71E-04
994	-214	1.13E-10
997	-134	7.10E-04
998	92	8.18E-03
1003	257	1.41E-08
1006	-303	1.21E-06
1009	-228	1.48E-11
1010	-225	4.85E-09
1012	146	9.45E-05
7223	-344	4.48E-15
7225	-302	3.19E-04
7227	228	1.77E-08
7228	231	8.41E-09
7229	176	2.85E-07
7230	101	3.26E-03
7231	183	3.65E-08
7232	-204	5.74E-10
7233	178	4.86E-08
7234	157	6.42E-03
7238	-177	2.21E-06
7239	-338	4.84E-09
7245	109	2.11E-06
7248	-140	6.53E-05
7251	215	2.84E-10
7255	156	4.96E-03
7266	95	7.25E-03
7271	-182	1.28E-08

7275	-215	5.29E-03
7279	-225	1.80E-11
7289	262	6.48E-16
7293	-114	2.41E-03
7296	-273	2.48E-05
7304	-237	2.90E-06
7311	-145	2.08E-05
7313	145	2.25E-05
7315	-152	9.42E-04
7316	-132	1.50E-03
7317	-122	3.78E-03
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7335	-164	7.22E-04
7338	-179	4.00E-06
7341	-310	3.52E-04
7345	332	3.12E-15
7351	91	5.17E-03
7352	103	1.42E-03
7355	-164	1.64E-07
7356	110	9.99E-04
7357	301	1.25E-14
7358	143	2.95E-04
7359	-275	4.24E-05
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7373	-97	3.77E-03
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7390	250	1.33E-06
7392	-197	5.85E-03
7396	198	7.16E-10
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7404	-205	4.77E-05
7406	174	9.55E-06
7407	135	3.29E-05
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7414	106	1.00E-04
7416	-152	5.79E-06
7420	-95	2.66E-03

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7426	136	4.88E-05
7427	-127	4.82E-03
7429	155	5.97E-06
7430	-234	1.22E-12
7434	283	6.76E-23
7437	99	1.65E-03
7439	138	2.42E-03
7443	-344	2.04E-05
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7449	-152	5.25E-05
7453	-178	1.26E-07
7460	258	3.05E-14
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7464	-165	5.29E-04
7467	-119	8.17E-04
7468	183	9.20E-09
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7472	195	6.84E-08
7478	-208	1.73E-03
7490	-108	7.18E-04
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7494	-93	6.52E-03
7495	-194	1.06E-05
7496	-99	2.21E-03
7497	98	2.26E-03
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7516	-377	8.33E-20
7517	-129	8.36E-03
7520	85	9.31E-03
7524	-203	3.01E-09
7525	-199	5.48E-09
7532	-230	5.20E-07
7533	227	2.20E-09
7537	66	3.84E-03

7543	-178	3.74E-06
7545	248	2.76E-11
7547	-122	1.61E-04
7548	-249	4.99E-13
7549	-148	9.56E-06
7552	219	1.19E-03
7559	250	3.29E-14
7560	176	7.17E-08
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7568	178	2.24E-04
7569	164	1.21E-06
7570	-249	2.00E-15
7571	156	7.05E-10
7572	145	4.29E-06
7575	-239	2.28E-05
7578	-232	3.14E-08
7579	-164	4.03E-07
7580	108	1.44E-03
7582	-192	1.96E-07
7583	-179	1.01E-03
7584	137	2.34E-04
7588	-173	3.93E-08
7590	-184	2.83E-04
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7609	109	8.54E-03
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7617	224	7.20E-05
7619	245	1.07E-09
7629	184	2.26E-03
7630	-246	1.42E-03
7635	-217	1.02E-06
7638	-126	5.98E-03
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7643	142	8.75E-06
7644	-214	1.00E-11
7645	-276	3.40E-06

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7649	-245	4.30E-09
7652	-157	1.81E-03
7656	126	8.31E-05
7657	148	4.16E-06
7658	-334	2.45E-04
7659	-316	3.87E-12
7660	309	7.56E-12
7664	144	2.16E-03
7665	172	8.23E-08
7666	-85	9.83E-03
7668	-196	9.41E-04
7669	117	4.73E-03
7676	-312	9.22E-14
7684	-160	1.31E-05
7689	334	4.99E-26
7690	-256	1.10E-14
7691	-261	2.70E-15
7693	-227	7.10E-08
7701	-207	3.01E-09
7702	88	6.87E-03
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7727	196	2.57E-09
7730	-108	8.08E-04
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7753	290	6.38E-13
7754	133	2.47E-05
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7781	86	8.08E-03
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7826	143	1.92E-05
7827	-228	1.56E-09
7828	-324	1.18E-14
7830	-120	6.09E-04
7831	-125	5.14E-04
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7844	-150	6.11E-06
7849	-171	1.44E-03
7850	188	4.86E-03
7854	-336	4.48E-08
7856	-133	2.55E-04
7857	-313	1.29E-09
7858	-236	1.38E-11
7860	-321	9.88E-15
7861	-168	1.12E-04
7862	159	1.62E-06
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7869	-258	7.87E-03

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7873	121	3.62E-04
7874	95	4.55E-03
7876	-137	1.09E-04
7879	-142	1.38E-04
7888	108	7.28E-04
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7891	-165	2.72E-07
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7915	146	1.18E-05
7916	188	1.60E-08
7917	187	8.58E-03
7921	-196	1.26E-05
7926	109	2.84E-03
7927	213	4.40E-10
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7939	158	2.77E-06
7940	-101	4.28E-03
7941	156	4.52E-05
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7966	-272	4.87E-12
7974	203	3.28E-05
7981	164	1.32E-04
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7987	-161	5.82E-03
7997	147	2.65E-04
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8013	-229	1.60E-05
8015	156	9.80E-03
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8022	-128	3.27E-03
8024	-294	3.63E-17
8025	-283	7.56E-07
8032	-295	2.07E-20
8034	132	9.43E-05
8035	133	8.13E-05
8037	-303	6.30E-11
8040	265	4.43E-10
8044	116	7.13E-07
8046	250	1.02E-10
8048	-167	3.47E-06
8052	126	6.64E-05
8054	119	4.14E-04
8055	297	8.53E-13
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8064	-134	4.13E-04
8065	-165	5.31E-04
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8073	195	6.06E-07
8074	181	1.20E-03
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8081	137	1.02E-03
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8107	181	1.57E-03
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8163	-248	2.32E-15
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8168	-235	3.54E-13
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8174	171	3.49E-03
8184	-174	2.21E-05
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8190	-214	1.58E-03
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8202	373	1.42E-05
8203	-228	1.45E-04
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8207	194	1.09E-03
8208	114	5.03E-06
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8219	222	8.12E-07
8220	-158	1.22E-03
8230	-135	2.36E-04
8233	-274	1.83E-17

8235	-132	6.20E-05
8237	114	4.27E-03
8238	111	4.74E-03
8239	105	3.63E-03
8240	-228	3.24E-10
8246	-255	1.43E-04
8250	200	2.16E-03
8259	119	4.29E-07
8260	251	2.14E-13
8261	293	2.22E-15
8264	-231	5.41E-05
8267	-264	3.22E-07
8270	-108	1.28E-03
8271	91	6.79E-03
8272	117	3.80E-03
8274	137	1.64E-05
8275	-136	4.15E-03
8276	-259	5.46E-15
8277	-194	6.46E-04
8287	-273	2.97E-19
8289	-126	1.65E-04
8293	-109	8.23E-04
8298	129	3.58E-04
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8301	161	5.49E-04
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8318	-151	7.12E-06
8321	-271	9.14E-08
8323	-186	1.47E-05
8324	110	1.53E-03
8330	115	1.12E-04
8332	-198	2.51E-06
8333	122	1.64E-04
8334	-108	3.35E-03
8336	-152	1.34E-04
8340	-217	6.50E-06
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8343	127	6.62E-04
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8349	-113	5.33E-03

8351	230	2.23E-13
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8366	-194	8.08E-08
8367	-119	3.26E-06
8374	-126	2.19E-04
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8383	109	2.80E-03
8384	-248	5.02E-04
8387	105	6.19E-03
8388	92	4.52E-03
8389	-222	5.32E-03
8391	-207	4.04E-10
8395	-171	1.54E-07
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8398	125	1.62E-04
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8427	109	3.43E-03
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8434	-332	3.11E-05
8436	-235	4.75E-10
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8451	-143	1.34E-04
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8456	106	1.15E-03
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8473	109	6.71E-04
8476	-129	5.56E-05

8477	-131	4.52E-05
8478	-130	4.92E-05
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8488	146	7.55E-08
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8490	-229	6.22E-04
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8508	-144	1.05E-05
8509	200	3.60E-04
8517	162	2.43E-03
8521	93	5.61E-03
8529	-232	8.29E-05
8532	-133	3.93E-04
8537	-121	2.30E-04
8539	186	1.12E-08
8540	95	4.98E-03
8541	193	2.17E-03
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8551	104	5.78E-03
8555	114	2.53E-03
8557	-309	1.89E-06
8559	312	3.77E-23
8560	120	2.20E-04
8562	-86	9.40E-03
8563	207	1.36E-06
8569	-243	6.62E-04
8574	132	1.55E-04
8576	-413	6.43E-30
8577	191	1.50E-08
8579	-220	9.56E-07
8585	157	9.50E-03
8589	-254	1.68E-07
8590	159	7.19E-05
8592	-125	3.92E-03
8593	-180	5.74E-07
8596	-262	4.01E-11

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8617	194	2.86E-05
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8683	-338	1.71E-14
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9494	-290	9.25E-04
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9533	-183	9.41E-05
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9540	-140	2.15E-04
9541	-107	7.96E-04
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9543	-88	9.19E-03
9544	79	2.24E-03
9557	-195	2.41E-08
9558	-198	1.52E-08
9561	-102	2.99E-03
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9581	-165	3.52E-07
9582	90	4.60E-03
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9672	-233	2.06E-12
9673	211	6.38E-06

9676	120	2.15E-04
9680	156	8.99E-07
9682	-120	8.15E-05
9687	-151	2.14E-05
9688	185	2.04E-08
9691	-175	3.23E-07
9693	105	1.82E-03
9694	117	8.16E-04
10510	-79	1.33E-03
10513	-139	5.44E-05
10515	-282	1.60E-06
10516	165	1.95E-05
10520	-472	2.25E-14
10524	-178	1.19E-07
10537	-168	6.52E-07
10538	119	2.59E-03
10539	106	8.66E-04
10543	-142	2.21E-03
10548	170	2.62E-07
10550	-170	8.08E-07
10554	-221	1.80E-06
10555	147	3.95E-03
10558	-114	1.54E-03
10561	-249	1.87E-07
10563	-194	4.66E-05
10565	-139	1.65E-03
10569	152	4.94E-06
10570	-91	8.33E-03
10572	-172	2.22E-06
10576	-208	9.92E-11
10582	121	2.31E-07
10584	-174	1.12E-06
10586	-205	2.27E-03
10588	105	1.44E-03
10590	-115	3.72E-04
10593	147	9.02E-06
10599	-244	3.73E-07
10601	-254	2.69E-12
10603	-106	2.02E-03
10604	-377	6.87E-20
10607	86	4.35E-03
10608	-233	9.32E-11
10612	-155	9.72E-04

10618	153	3.51E-06
10625	92	8.55E-03
10627	-173	2.64E-07
10630	99	9.38E-03
10633	-141	1.55E-04
10634	183	1.92E-05
10642	-128	4.99E-03
10649	310	1.18E-21
10660	-183	1.79E-03
10668	-416	2.69E-13
10674	-115	4.85E-04
10677	190	7.96E-08
10678	-227	1.35E-03
10681	-102	2.31E-03
10685	93	8.97E-03
10688	-271	2.25E-15
10696	-203	2.08E-06
10697	132	2.00E-03
10711	-208	1.37E-10
10722	152	3.11E-04
10724	-503	3.18E-13
10733	157	4.49E-05
10734	316	9.30E-20
10738	-215	6.47E-06
10741	-162	3.38E-04
10744	-289	1.74E-06
12076	125	1.74E-04
12086	-97	4.82E-03
12110	-341	3.01E-07
12118	-229	1.10E-04
12121	155	1.83E-05
12126	143	1.09E-05
12130	-340	5.00E-05
12132	95	3.99E-03
12151	-137	6.79E-03
12154	-148	3.63E-06
12162	-105	1.13E-03
12166	-333	4.41E-11
12170	-249	3.35E-09
12174	-353	2.54E-29
12175	170	2.23E-07
12186	230	1.08E-12

12187	-106	1.38E-03
12190	-166	2.64E-06
12194	-215	1.16E-04
12200	186	1.15E-06
12207	-198	2.23E-04
12208	86	8.06E-03
12210	111	3.77E-03
12214	200	6.70E-06
12215	-264	9.92E-06
12219	-108	9.96E-04
12228	-208	4.81E-05
12230	177	2.01E-03
12232	232	1.31E-12
12235	-220	3.79E-06
12241	-296	3.44E-07
12242	-234	5.58E-13
12245	-114	7.20E-04
12249	96	4.30E-03
12250	-179	1.14E-06
12280	125	1.55E-04
12281	-213	7.01E-03
12284	185	1.35E-08
12286	294	7.71E-09
12288	233	6.11E-12
12291	343	3.15E-29
12292	108	6.99E-04
14484	180	3.40E-08
14491	-225	9.57E-11
14498	-185	1.70E-04
14504	-317	3.47E-06
14519	-334	3.15E-04
14523	107	4.81E-04
14524	-341	4.43E-14
14533	-202	8.08E-08
14535	-172	7.27E-07
14539	-144	4.59E-04
14544	130	1.51E-03
14555	164	2.06E-06
14560	-243	3.22E-09
14568	-213	1.20E-04
14582	234	7.01E-12
14586	-117	8.87E-03

14597	-124	5.89E-03
14602	-117	7.54E-06
14603	97	2.95E-03
14611	150	2.49E-04
14612	-253	4.06E-15
14616	-246	4.27E-06
14629	118	5.91E-03
14630	-141	1.90E-05
14631	-134	1.74E-05
14649	226	6.85E-12
14651	108	1.21E-03
14654	116	2.67E-03
14658	109	2.25E-04
14659	151	3.08E-06
14661	-169	1.17E-06
14663	219	9.20E-07
14665	-427	2.84E-08
14667	-118	6.38E-04
14668	-151	1.25E-03
14672	130	3.05E-05
14674	173	1.07E-06
14694	-183	4.99E-04
14695	-224	1.63E-10
14697	-116	1.68E-03
14698	-117	1.37E-03
14699	232	1.79E-13
14700	-242	1.10E-13
14702	-125	5.62E-03
14705	-225	6.01E-09
13406	-149	1.11E-05
13411	106	3.66E-03
13413	319	1.85E-07
13420	130	2.76E-03
13432	98	3.81E-03
13434	170	3.19E-06
13447	118	7.62E-04
5974	-92	5.00E-02
6042	-45	5.00E-02
6273	-62	5.00E-02
7067	-64	5.00E-02
7558	54	5.00E-02
7662	-101	5.00E-02
7977	206	5.00E-02

8660	-335	5.00E-02
9004	845	5.00E-02
9363	41	5.00E-02
9621	-131	5.00E-02
10159	-48	5.00E-02
10167	-41	5.00E-02
12293	-354	2.33E-11
12294	-216	1.08E-04
12295	-169	7.30E-05
12296	121	2.88E-04
12304	-199	1.61E-09
12308	111	2.53E-03
12310	270	7.55E-05
12322	163	2.24E-08
12327	-245	3.71E-11
12334	-119	7.58E-04
12336	232	4.69E-13
12341	144	8.37E-03
12343	-252	6.04E-05
12344	85	8.25E-03
12356	-197	1.21E-07
12358	-241	2.27E-13
12365	-132	1.06E-04
12368	159	7.67E-08
12371	101	6.10E-03
12376	201	2.74E-08
12381	-188	6.21E-05
12393	162	6.90E-07
12409	175	4.78E-08
12411	281	1.51E-06
12412	-104	1.57E-03
14309	263	3.86E-16
14310	-147	1.45E-05
14311	-164	3.16E-07
14313	141	7.41E-06
14319	-156	3.35E-03
14330	-176	2.85E-08
14333	177	4.82E-08
14334	-162	2.01E-06
14340	-198	4.16E-03
14367	124	3.11E-04
14369	300	1.04E-07

14377	208	3.26E-10
14379	-267	5.55E-06
14381	-345	3.50E-14
14389	-100	2.45E-03
14390	166	1.66E-05
14391	-120	2.33E-04
14406	-318	1.54E-08
14409	72	6.09E-03
14411	-219	9.55E-12
13455	-158	9.62E-08
13457	-183	1.69E-06
13460	188	1.39E-03
13461	124	3.94E-04
13472	-290	5.99E-05
13483	-121	4.61E-04
13485	236	1.54E-08
13491	-313	1.20E-03
13492	338	4.81E-07
13495	109	8.28E-04
13501	-100	2.56E-03
13511	-119	8.13E-03
13512	203	7.84E-09
13517	-204	1.78E-05
13519	210	3.08E-06
13523	172	1.50E-05
13526	121	1.82E-04
13527	-241	6.07E-14
13529	263	3.69E-09
13538	-217	3.32E-08
13540	-335	1.21E-04
13551	135	7.31E-03
13552	86	6.61E-03
13554	-127	3.45E-04
13560	-124	2.91E-03
14430	165	1.45E-06
14436	216	9.43E-10
14441	103	1.61E-03
14451	147	1.23E-04
14454	123	5.16E-03
14458	-119	1.35E-03
14460	130	1.09E-04
14463	113	3.08E-03

14474	-127	3.53E-03
14476	270	5.40E-11
14479	-188	8.69E-07
13328	325	1.28E-14
13332	-195	5.10E-04
13336	-141	3.87E-05
13340	-161	3.04E-04
13349	103	3.56E-03
13352	-131	3.39E-03
13367	128	5.33E-05
13372	-101	5.59E-03
13378	-265	4.88E-06
13383	137	1.32E-03
13384	-96	5.26E-03

TABLE 9 - GENETIC MARKERS FOR COW FERTILITY

A	B	C	A	B	C	A	B	C
2.0	-0.6	4.63E-04	6836	0.4	1.79E-03	3444	0.7	4.70E-03
3.0	-0.7	2.25E-09	6839	-0.7	1.87E-11	3446	-0.6	1.62E-03
4.0	-1.0	6.19E-06	6843	0.8	3.34E-08	3448	-0.7	4.00E-06
15.0	-0.5	3.11E-03	6844	0.6	3.22E-03	3455	0.5	3.50E-04
16.0	-0.4	1.12E-03	6845	-0.7	5.11E-05	3467	-0.8	2.62E-12
21.0	-0.5	3.70E-05	6849	2.1	1.55E-09	3468	-0.6	2.03E-08
22.0	0.9	3.11E-12	6856	0.9	1.50E-13	3482	0.3	8.40E-03
26.0	-0.4	6.80E-04	6862	1.1	1.13E-04	3483	-0.4	7.43E-03
33.0	0.5	9.14E-03	6864	0.3	6.62E-03	3485	1.1	6.41E-19
35.0	0.9	8.94E-15	6865	-0.4	4.75E-03	3489	-0.9	2.21E-12
36.0	1.0	4.01E-07	6869	0.8	1.80E-10	3490	-0.4	4.61E-04
38.0	0.9	1.44E-03	6870	1.0	1.24E-03	3491	-1.1	8.80E-21
39.0	2.1	1.61E-09	6886	0.3	6.49E-03	3493	0.4	2.47E-03
46.0	0.8	4.26E-08	6887	0.5	2.04E-05	3498	-0.4	1.92E-03
50.0	0.8	4.44E-03	6889	0.5	6.42E-05	3506	0.6	1.53E-03
52.0	1.1	1.63E-18	6891	0.6	1.39E-05	3507	-0.5	1.44E-03
54.0	-0.8	2.46E-11	6894	-0.9	1.94E-08	3514	0.8	2.41E-10
55.0	-0.5	4.67E-03	6899	-0.6	1.94E-05	3523	-0.6	3.03E-07
61.0	0.5	3.91E-03	6900	0.7	1.68E-03	3539	-0.5	2.33E-06
63.0	0.9	9.23E-17	6909	0.6	3.95E-03	3540	0.5	1.02E-05
66.0	0.8	1.18E-11	6910	-0.7	3.84E-07	3548	1.4	3.03E-07
67.0	-0.7	3.25E-11	6919	0.4	3.48E-03	3554	-0.3	1.78E-04
71.0	0.8	1.88E-08	6928	-0.6	5.70E-06	3557	1.2	3.14E-05
73.0	-0.6	6.33E-05	6936	0.7	3.97E-08	3558	1.1	7.75E-19
75.0	0.4	9.10E-05	6937	-0.8	1.64E-04	3559	1.0	3.60E-04
77.0	0.8	9.20E-13	6945	-0.7	1.66E-08	3575	1.0	8.41E-05
86.0	-0.7	2.98E-06	6953	-0.7	5.74E-11	3579	-0.3	1.77E-03
97.0	0.4	7.95E-04	6954	0.4	3.07E-03	3587	-0.5	1.51E-05
99.0	-0.8	1.16E-13	6961	-0.8	3.49E-05	3588	0.5	1.29E-04
101.0	1.1	3.52E-23	6962	-0.7	7.43E-09	3591	-0.6	1.05E-03
106.0	-0.6	6.34E-06	6967	0.5	1.02E-05	3593	1.0	1.16E-14
118.0	0.4	1.58E-03	6991	0.5	6.83E-04	3594	-0.6	5.11E-06
123.0	0.3	4.78E-03	6996	-0.9	4.02E-18	3595	0.8	8.74E-04
131.0	-0.7	2.63E-11	6998	1.2	1.08E-12	3599	-0.5	2.05E-04
140.0	0.5	1.37E-04	6999	0.7	1.65E-08	3601	0.6	5.46E-05
145.0	-0.4	2.52E-03	7011	0.5	3.31E-04	3604	-0.4	5.07E-03
152.0	-0.5	4.97E-04	7012	0.5	2.82E-04	3609	1.2	6.62E-04
154.0	1.0	9.02E-08	7023	0.5	5.49E-04	3613	-0.3	1.83E-03
158.0	-0.4	6.35E-03	7027	0.7	1.02E-05	3615	-0.7	1.93E-08
162.0	0.8	8.63E-06	7028	-0.6	1.14E-04	3617	-0.7	1.24E-04

167.0	0.3	3.22E-03	7044	0.4	9.15E-03	3618	-0.8	3.05E-12
168.0	-0.5	5.92E-06	7052	1.2	1.51E-05	3619	0.4	6.39E-04
176.0	1.0	3.79E-17	7053	0.4	6.13E-06	3622	0.7	2.26E-03
177.0	-0.9	1.69E-13	7055	0.6	2.49E-06	3625	-0.4	2.27E-07
185.0	-0.4	5.22E-03	7063	-0.2	5.11E-03	3631	0.8	4.07E-11
191.0	1.0	5.43E-15	7064	-0.7	3.28E-08	3636	0.5	2.54E-03
193.0	0.5	9.89E-03	7066	-0.5	4.15E-03	3642	0.6	1.63E-03
194.0	-0.4	1.32E-04	7068	-0.4	1.63E-03	3655	0.5	2.64E-03
203.0	0.4	2.25E-03	7069	0.7	5.87E-05	3661	1.1	1.13E-19
205.0	0.4	6.56E-04	7071	-0.5	3.81E-04	3667	-0.8	9.17E-10
210.0	0.4	4.84E-03	7072	0.6	2.36E-07	3668	-0.9	2.58E-14
215.0	0.6	8.27E-04	7073	0.6	2.36E-07	3669	-0.4	3.47E-04
217.0	-0.6	1.10E-04	7074	-0.5	2.01E-05	3671	0.8	4.86E-05
219.0	-0.5	7.81E-06	7079	-0.6	4.09E-08	3673	-0.8	5.00E-05
220.0	0.5	2.04E-04	7082	-0.5	1.92E-03	3683	0.7	9.11E-09
222.0	0.4	4.12E-03	7085	0.6	5.08E-07	3693	0.4	7.46E-04
225.0	-0.4	3.20E-04	7086	1.0	2.93E-13	3695	0.9	7.05E-05
231.0	1.0	5.77E-11	7090	0.7	2.67E-04	3698	-0.5	8.63E-04
235.0	0.4	7.54E-03	7092	-0.5	3.99E-05	3700	-0.5	5.14E-04
238.0	0.5	1.30E-03	7093	-0.6	6.02E-03	3706	0.7	1.28E-07
239.0	0.4	7.47E-03	7098	-0.6	2.26E-08	3708	-0.7	1.11E-10
221								
246.0	1.1	2.72E-08	7101	0.4	5.42E-05	3709	0.6	8.63E-05
249.0	0.6	2.37E-06	7106	-0.4	2.51E-03	3710	-0.6	6.82E-05
251.0	-0.3	1.42E-03	7112	0.6	4.34E-06	3713	-0.3	7.17E-03
255.0	-1.0	7.79E-05	7116	-0.7	5.84E-09	3714	0.4	1.75E-05
257.0	-0.7	1.28E-08	7125	-0.3	8.46E-03	3716	-0.4	7.68E-03
265.0	0.4	9.62E-04	7128	-0.7	1.14E-10	3722	-0.4	9.71E-05
272.0	0.4	1.31E-03	7129	0.3	5.39E-03	3723	0.9	2.90E-04
273.0	0.4	6.87E-03	7130	-0.9	3.28E-07	3726	-0.3	4.75E-03
276.0	1.0	1.00E-03	7135	-0.6	1.99E-03	3727	0.6	8.07E-06
277.0	-0.6	4.49E-03	7136	-0.5	2.97E-03	3728	-0.4	3.49E-03
282.0	-0.5	7.92E-06	7139	0.7	3.75E-06	3729	0.9	7.72E-12
298.0	-0.3	3.15E-03	7140	1.2	2.47E-05	3730	-0.4	2.16E-06
303.0	-0.5	1.80E-04	7145	-0.4	3.38E-04	3731	-0.3	9.83E-03
305.0	-0.7	7.78E-09	7149	-0.7	2.28E-07	3732	-0.4	1.60E-04
307.0	-0.7	2.55E-08	7150	-0.5	7.75E-06	3734	-0.3	4.32E-03
312.0	0.5	3.14E-06	7151	-0.6	4.80E-06	3737	1.0	2.87E-03
318.0	0.7	6.43E-10	7160	-0.3	4.84E-03	3738	0.5	3.25E-05
321.0	-0.8	4.28E-05	7162	-0.4	2.14E-03	3740	0.5	4.55E-05
327.0	0.4	4.35E-03	7165	0.5	2.53E-03	3742	0.6	1.02E-04
328.0	0.8	1.51E-07	7166	0.5	3.13E-05	3745	-0.6	3.50E-06
330.0	1.0	3.21E-07	7172	-0.4	1.04E-03	3749	0.6	4.98E-06

331.0	0.5	3.56E-06	7175	0.4	9.79E-03	3750	0.6	6.86E-07
333.0	-0.7	8.12E-11	7180	0.6	1.18E-03	3752	0.5	1.71E-05
334.0	-0.6	1.33E-06	7181	0.9	5.67E-03	3753	0.8	6.83E-10
335.0	0.6	6.53E-04	7182	0.4	1.62E-04	3755	-0.9	5.06E-05
336.0	0.5	1.19E-05	7189	-0.4	9.57E-04	3757	-0.7	1.69E-05
337.0	-0.6	1.11E-07	7190	-0.5	9.13E-07	3759	0.8	2.01E-07
341.0	-0.5	4.63E-03	7195	0.6	1.89E-05	3760	-0.8	1.42E-16
343.0	2.1	2.04E-09	7197	0.7	7.46E-08	3762	1.1	4.97E-07
345.0	0.8	2.33E-07	7198	0.5	3.27E-04	3763	-0.9	2.15E-06
354.0	0.9	5.91E-07	7199	1.0	6.21E-12	3768	0.8	2.86E-03
368.0	-0.4	1.03E-06	7204	-0.6	1.47E-06	3770	-0.4	9.33E-04
369.0	-0.4	1.16E-03	7208	0.9	1.08E-07	3772	1.2	2.25E-10
376.0	1.1	2.83E-07	7209	-0.6	1.14E-04	3776	0.7	3.16E-10
377.0	1.5	1.09E-07	7218	0.6	5.78E-07	3779	-0.4	1.75E-03
381.0	-0.6	1.51E-08	7219	0.8	1.19E-10	3780	-0.6	1.04E-08
393.0	-0.8	1.06E-10	7223	0.9	5.33E-09	3788	0.7	1.20E-07
394.0	0.7	7.23E-07	7225	0.6	4.61E-03	3789	1.0	1.66E-06
395.0	0.8	2.40E-11	7227	-0.4	2.42E-04	3793	0.6	7.65E-07
396.0	0.8	2.41E-06	7228	-0.5	1.53E-04	3796	1.5	1.12E-15
397.0	-0.4	6.39E-04	7229	-0.4	1.94E-03	3797	1.5	1.83E-16
404.0	-0.5	1.81E-04	7231	-0.4	5.62E-05	3798	0.6	2.11E-03
408.0	1.2	7.11E-10	7232	0.8	6.92E-11	3804	-0.3	3.78E-03
409.0	0.5	3.06E-05	7239	0.8	1.77E-03	3808	0.8	1.83E-10
410.0	0.7	3.09E-09	7245	-0.3	2.05E-05	3812	0.8	1.39E-12
411.0	0.7	1.56E-09	7247	0.5	1.43E-03	3817	0.4	1.91E-03
412.0	1.2	3.70E-14	7251	-0.4	4.71E-04	3818	0.5	4.14E-03
413.0	-0.4	4.53E-04	7269	-0.4	5.74E-03	3819	0.6	5.35E-03
415.0	0.7	4.82E-07	7270	0.5	6.65E-05	3823	0.8	2.70E-11
420.0	-0.3	8.97E-04	7271	0.9	9.68E-14	3825	-0.4	9.60E-03
423.0	0.5	2.31E-03	7275	1.8	2.28E-06	3834	0.5	1.49E-03
424.0	0.7	3.88E-05	7277	-0.6	1.00E-04	3841	0.7	1.36E-04
425.0	0.7	3.74E-09	7279	0.5	9.61E-06	3846	0.7	6.82E-04
444.0	0.6	3.52E-06	7285	-0.5	2.06E-03	3851	0.4	7.04E-03
445.0	0.5	1.67E-03	7286	-0.6	2.05E-04	3859	0.9	2.65E-16
447.0	0.7	6.44E-06	7289	-0.5	7.86E-06	3861	0.3	2.90E-03
450.0	-0.4	2.02E-04	7291	0.6	2.81E-05	3862	-0.4	2.91E-04
455.0	-0.3	4.32E-03	7293	0.5	4.58E-04	3864	0.6	1.70E-07
467.0	0.6	4.78E-06	7306	-0.4	1.16E-03	3866	-0.5	5.54E-05
476.0	-1.1	5.93E-16	7307	0.4	3.22E-03	3877	-0.6	6.29E-06
478.0	-0.9	1.38E-13	7308	0.4	3.06E-03	3878	0.6	4.42E-08
479.0	1.8	8.41E-08	7311	0.5	2.20E-05	3879	0.6	2.43E-05
481.0	-0.3	7.35E-03	7313	-0.6	1.36E-07	3884	0.8	3.86E-10
222								

490.0	1.2	5.04E-08	7315	0.9	2.23E-07	3885	-0.5	4.32E-05
497.0	1.2	4.00E-13	7316	0.4	2.24E-03	3886	-0.6	3.09E-06
499.0	-0.6	2.31E-06	7317	0.3	7.97E-03	3900	0.4	1.56E-03
503.0	0.5	1.65E-03	7322	0.3	8.31E-03	3902	1.0	3.76E-10
507.0	0.5	1.95E-04	7323	0.5	6.04E-03	3914	1.0	3.92E-15
508.0	-0.6	1.56E-09	7329	1.5	5.35E-07	3917	-0.5	3.92E-05
509.0	-0.4	1.29E-03	7331	-0.9	4.64E-09	3918	0.8	5.92E-07
515.0	-0.4	8.42E-03	7334	-0.4	2.05E-03	3919	-0.8	2.27E-03
520.0	-0.5	4.13E-03	7335	0.6	2.37E-04	3922	0.6	2.14E-06
522.0	0.6	7.50E-03	7336	-0.4	6.21E-03	3924	-0.4	2.68E-06
523.0	0.5	4.52E-03	7340	0.7	1.44E-06	3926	-0.6	6.46E-07
529.0	0.9	6.10E-09	7345	-0.5	8.21E-06	3927	0.6	2.31E-06
530.0	0.9	6.72E-04	7355	0.5	7.00E-06	3929	-0.6	1.26E-06
531.0	-1.0	9.46E-14	7357	-1.0	2.82E-15	3930	0.6	6.57E-03
532.0	-0.4	4.51E-03	7358	-0.7	3.09E-06	3937	0.4	5.74E-04
534.0	1.1	3.72E-15	7360	0.6	4.92E-04	3938	-0.4	1.14E-03
537.0	-0.4	3.60E-06	7362	0.4	9.18E-03	3940	-0.4	1.69E-03
540.0	0.6	3.40E-07	7367	0.5	1.17E-03	3945	0.9	1.25E-04
545.0	0.6	7.05E-03	7374	-0.9	1.15E-14	3946	-1.1	9.52E-20
548.0	-0.5	6.06E-04	7386	0.4	5.46E-03	3950	-0.3	7.79E-03
550.0	-0.8	2.81E-04	7388	0.5	6.44E-05	3955	-0.3	4.23E-03
552.0	-0.5	4.67E-05	7390	-0.7	1.11E-05	3956	0.5	5.62E-04
553.0	0.5	1.13E-04	7396	-0.7	8.41E-09	3957	0.5	1.97E-04
559.0	-0.4	1.37E-04	7403	1.0	2.15E-07	3959	-0.5	1.47E-03
561.0	1.3	4.84E-12	7404	1.0	1.64E-07	3961	-0.6	1.68E-06
563.0	-0.4	3.63E-03	7406	-0.7	3.47E-06	3969	0.5	1.93E-04
565.0	-0.3	5.63E-03	7410	-0.9	7.68E-09	3972	-0.8	2.14E-09
569.0	0.4	1.52E-03	7416	0.4	1.75E-03	3978	0.4	8.79E-04
570.0	0.4	2.46E-04	7420	0.3	8.46E-03	3979	-0.9	1.20E-03
582.0	-0.3	6.95E-03	7421	0.7	1.86E-09	3983	-0.5	5.81E-05
586.0	0.5	6.47E-06	7424	-0.8	1.30E-09	3985	1.0	1.02E-03
588.0	0.7	5.70E-05	7425	0.4	7.00E-03	3993	0.6	7.87E-05
592.0	-0.9	1.59E-13	7426	-0.6	1.02E-07	3996	0.5	2.52E-04
595.0	0.6	2.58E-06	7427	0.9	4.22E-07	4001	-0.7	7.17E-04
608.0	0.4	1.30E-03	7429	-1.0	1.97E-17	4009	-0.4	1.27E-03
614.0	0.6	5.64E-06	7430	0.6	3.62E-07	4011	-0.4	3.14E-04
615.0	-0.3	3.14E-03	7434	0.7	3.52E-12	4015	-0.4	4.04E-04
617.0	0.5	4.17E-04	7439	-0.6	5.89E-04	4017	0.5	1.19E-03
620.0	-0.4	3.94E-04	7443	1.2	4.01E-05	4021	-0.6	1.06E-03
623.0	-0.5	9.41E-06	7447	0.4	5.19E-04	4022	1.0	1.25E-08
629.0	-0.9	2.16E-15	7448	0.6	1.18E-06	4023	0.9	2.13E-04
633.0	-0.5	2.87E-04	7450	0.6	1.68E-03	4025	-1.1	9.01E-21
637.0	0.3	9.68E-03	7460	-0.6	2.27E-07	4027	-0.3	5.68E-03

640.0	0.3	4.66E-03	7461	-0.9	4.50E-06	4028	0.6	1.96E-03
644.0	-0.7	4.92E-10	7467	0.4	1.12E-03	4030	0.4	5.97E-05
647.0	-0.3	3.50E-03	7468	-0.5	1.01E-05	4031	0.9	7.57E-04
649.0	-0.3	8.91E-03	7469	0.7	3.73E-03	4032	-0.6	6.86E-07
650.0	-0.4	1.94E-03	7476	0.8	1.89E-03	4041	0.5	1.95E-03
652.0	-0.6	1.91E-04	7478	1.2	4.17E-06	4043	-0.4	3.09E-04
653.0	-0.5	8.03E-04	7492	0.6	5.99E-04	4044	0.9	1.25E-08
655.0	-0.3	9.16E-03	7493	-0.8	4.92E-11	4045	-0.9	2.07E-11
657.0	0.4	1.14E-03	7496	0.4	3.16E-04	4049	-0.3	8.54E-03
663.0	0.6	2.89E-03	7497	-0.5	1.13E-06	4050	-0.4	1.83E-03
664.0	0.6	4.10E-06	7502	0.6	3.10E-06	4051	1.0	3.61E-19
667.0	0.5	3.66E-05	7503	0.6	7.34E-06	4052	1.0	2.26E-17
668.0	0.5	1.75E-05	7504	0.7	3.34E-04	4056	0.6	1.89E-08
672.0	-0.7	2.03E-08	7515	1.4	1.08E-18	4058	-0.5	2.78E-06
680.0	-0.5	1.07E-04	7516	1.3	2.67E-18	4060	-0.7	1.02E-08
681.0	-0.6	1.24E-07	7532	1.2	3.35E-13	4061	-0.7	2.72E-08
690.0	1.1	7.25E-13	7533	-0.5	2.30E-05	4070	0.7	7.33E-09
693.0	-0.7	9.42E-04	7537	-0.2	4.47E-03	4075	0.9	3.49E-14
696.0	0.3	2.73E-03	7543	0.4	5.19E-03	4076	1.0	2.81E-05
697.0	-0.7	3.25E-04	7545	-0.6	5.24E-07	4081	-0.3	6.88E-03
223								
703.0	-0.4	4.21E-03	7547	0.6	8.82E-08	4084	-0.7	8.27E-07
707.0	-0.5	7.92E-05	7548	0.9	4.12E-13	4088	0.3	5.87E-03
708.0	-1.0	1.74E-06	7549	0.7	1.09E-07	4091	1.3	8.49E-06
711.0	-0.7	3.74E-04	7559	-0.7	3.48E-09	4096	-0.8	3.80E-09
714.0	-0.6	1.28E-06	7560	-0.7	5.72E-10	4097	0.5	1.14E-04
718.0	0.5	9.70E-04	7564	0.7	9.33E-09	4100	-0.3	6.86E-03
722.0	-0.3	7.97E-03	7565	0.7	5.13E-05	4106	0.6	1.67E-07
724.0	0.4	7.37E-03	7568	-0.4	4.13E-03	4119	-0.8	2.61E-04
730.0	0.9	1.34E-09	7570	0.4	6.61E-05	4120	0.5	1.74E-04
735.0	-0.5	7.29E-05	7571	-0.3	3.39E-04	4121	0.8	2.83E-08
736.0	-0.3	2.86E-03	7573	-0.7	2.53E-07	4126	0.6	2.29E-03
749.0	0.7	1.29E-05	7575	1.0	8.18E-08	4130	0.5	3.61E-05
753.0	0.5	1.99E-04	7578	0.9	9.18E-10	4134	0.8	3.88E-12
757.0	0.3	4.09E-03	7581	0.3	9.22E-05	4135	0.4	9.05E-03
761.0	-0.7	1.29E-05	7582	0.4	7.84E-04	4137	-0.4	6.47E-03
762.0	-0.5	1.33E-03	7584	-0.6	2.62E-06	4141	-1.0	3.83E-06
765.0	1.2	9.36E-05	7588	0.3	6.60E-03	4155	-0.4	9.70E-04
766.0	-0.3	3.09E-03	7594	0.7	7.49E-09	4156	-0.6	7.98E-07
769.0	0.8	3.38E-14	7597	0.4	1.04E-03	4159	-0.6	1.26E-06
776.0	-0.5	2.82E-05	7601	0.5	1.33E-03	4165	0.6	1.34E-06
778.0	-0.5	2.28E-03	7604	-0.6	1.30E-03	4166	0.6	6.75E-07
779.0	1.7	2.27E-21	7605	0.5	9.90E-05	4169	0.6	5.03E-04

781.0	-0.6	3.39E-05	7606	-0.6	6.70E-06	4170	-0.7	9.89E-08
784.0	0.7	8.14E-05	7611	0.3	3.10E-03	4179	-0.4	5.30E-04
793.0	-0.9	5.03E-11	7619	-0.5	4.63E-04	4183	0.4	2.14E-03
794.0	-0.8	1.96E-05	7621	0.4	3.47E-03	4184	0.5	2.84E-04
801.0	1.3	2.39E-07	7635	1.0	2.15E-09	4187	-0.6	1.11E-05
804.0	-0.4	1.65E-03	7638	0.5	3.15E-03	4188	0.3	7.19E-03
806.0	0.5	6.89E-04	7640	0.9	1.26E-03	4194	0.6	4.10E-07
808.0	0.9	4.33E-14	7642	0.4	1.42E-03	4199	0.3	9.73E-03
811.0	-0.6	3.14E-03	7643	-0.3	4.67E-03	4202	-0.5	3.29E-06
812.0	-0.9	6.16E-11	7644	0.5	1.79E-05	4214	1.3	8.61E-08
818.0	-0.3	5.75E-03	7645	0.8	2.15E-05	4215	-0.5	9.05E-06
827.0	-0.5	8.65E-06	7648	1.1	4.41E-03	4217	-0.6	2.31E-08
829.0	-0.8	2.11E-10	7649	1.1	3.75E-12	4219	-0.7	2.10E-05
833.0	1.0	9.44E-03	7651	-0.7	2.90E-04	4231	-0.4	2.68E-03
838.0	0.5	3.41E-05	7656	-0.3	9.93E-03	4232	-0.5	2.48E-04
839.0	0.5	6.84E-05	7657	-0.4	7.88E-04	4234	0.9	8.82E-10
840.0	1.3	8.91E-11	7659	1.0	6.06E-08	4236	-0.9	4.70E-09
844.0	-0.3	7.20E-03	7660	-0.8	5.76E-08	4239	1.0	7.07E-04
846.0	0.5	8.33E-04	7665	-1.0	1.14E-18	4241	-0.6	2.90E-03
849.0	-0.4	3.11E-04	7672	-0.4	8.68E-04	4245	0.6	1.47E-04
854.0	0.5	9.27E-04	7676	0.6	9.40E-05	4246	0.9	6.13E-11
858.0	0.8	9.38E-10	7679	-0.4	8.37E-04	4259	-0.6	1.45E-06
864.0	-0.9	4.80E-14	7684	0.5	9.35E-04	4261	0.5	1.84E-05
865.0	-0.4	2.89E-03	7687	0.6	2.36E-03	4264	0.6	3.88E-04
867.0	0.7	3.49E-10	7689	-0.9	1.70E-18	4265	-0.8	1.29E-09
870.0	-0.8	4.51E-11	7690	0.6	4.33E-08	4266	0.9	9.01E-04
873.0	0.5	6.89E-05	7691	0.6	3.68E-08	4268	0.5	1.17E-05
882.0	0.5	1.11E-03	7693	0.6	3.28E-05	4271	0.9	5.61E-04
883.0	-0.5	1.86E-03	7695	0.4	1.78E-03	4276	0.5	1.01E-03
885.0	0.4	8.86E-03	7708	0.4	1.22E-04	4277	0.5	3.76E-04
888.0	0.8	2.47E-07	7721	1.5	1.12E-16	4278	0.5	5.11E-05
889.0	0.4	3.84E-03	7722	1.5	2.05E-09	4279	0.3	8.65E-03
894.0	0.7	9.71E-03	7725	-0.5	1.23E-06	4282	-0.3	1.27E-03
900.0	-0.6	2.04E-07	7726	-0.5	3.24E-03	4285	-0.4	3.32E-04
901.0	0.5	1.43E-05	7727	-0.4	1.04E-03	4297	-0.6	5.11E-08
905.0	-0.5	9.56E-06	7736	0.8	2.61E-03	4299	0.9	5.96E-11
906.0	-0.5	6.66E-03	7737	1.0	6.30E-18	4301	1.1	4.34E-08
910.0	1.1	1.27E-03	7738	-0.6	4.62E-09	4313	-0.6	3.01E-07
913.0	0.6	2.35E-05	7742	0.4	2.29E-03	4319	0.4	6.15E-03
915.0	-0.6	5.28E-05	7745	-0.6	5.98E-08	4327	-0.4	2.50E-03
919.0	-0.7	3.20E-04	7747	-0.5	6.22E-05	4328	-0.5	3.62E-04
224								
928.0	-1.0	3.16E-18	7750	-0.6	1.22E-04	4331	0.4	1.27E-03

934.0	0.5	1.92E-05	7751	-0.5	1.83E-03	4332	0.4	1.41E-04
935.0	0.6	2.84E-05	7753	-0.8	1.31E-08	4334	-0.8	2.68E-14
937.0	0.8	2.11E-03	7754	0.4	1.29E-04	4335	-0.7	1.48E-06
939.0	-0.9	9.78E-14	7755	-0.4	3.92E-08	4336	-0.4	1.62E-03
940.0	0.3	7.07E-03	7759	0.3	5.96E-03	4339	0.5	5.89E-05
944.0	0.5	4.55E-04	7763	0.4	6.67E-03	4341	-0.7	1.17E-07
945.0	-0.7	1.27E-10	7773	-0.7	7.43E-05	4343	-0.5	1.57E-04
949.0	1.3	5.10E-21	7774	-0.4	1.80E-03	4350	-0.4	1.22E-04
951.0	0.5	1.19E-03	7777	0.9	9.93E-13	4352	-0.5	4.07E-06
954.0	-0.8	1.91E-12	7781	-0.8	9.52E-12	4354	-0.6	1.11E-07
963.0	1.2	8.03E-07	7785	0.6	7.71E-04	4357	0.4	8.32E-03
964.0	-0.6	2.04E-05	7788	-0.4	8.97E-04	4358	-0.6	1.53E-03
974.0	0.5	1.38E-06	7789	-0.4	8.30E-03	4362	0.4	9.09E-03
975.0	-0.4	3.28E-04	7791	-0.3	8.15E-03	4371	-0.6	1.37E-05
977.0	-0.4	8.79E-03	7808	1.3	7.57E-05	4377	-0.7	2.74E-09
979.0	-0.5	1.46E-06	7810	0.6	7.66E-07	4379	0.9	2.58E-03
984.0	-0.5	4.55E-05	7814	0.5	4.30E-05	4380	-0.4	9.15E-03
989.0	-0.4	4.78E-03	7815	0.7	2.58E-06	4386	0.7	2.21E-09
993.0	-0.5	7.77E-06	7816	0.4	5.41E-04	4390	-0.4	1.51E-03
994.0	0.4	6.36E-04	7822	1.1	1.23E-18	4391	-0.4	2.23E-03
1003.0	-0.5	2.74E-03	7823	-0.5	3.70E-06	4395	-0.4	2.35E-04
1004.0	0.5	1.16E-03	7824	-0.3	4.19E-03	4396	-0.6	4.92E-07
1005.0	-0.7	2.80E-03	7827	0.6	1.06E-05	4398	0.7	5.94E-08
1006.0	0.8	3.88E-03	7828	1.2	2.90E-11	4400	1.1	4.24E-10
1009.0	0.5	4.12E-05	7841	-0.6	5.02E-04	4401	1.2	2.32E-14
1010.0	0.6	9.61E-05	7854	1.4	6.45E-08	4405	0.9	6.54E-06
1012.0	-0.6	2.33E-07	7856	0.4	5.84E-04	4415	0.3	9.99E-03
1016.0	0.6	7.56E-07	7857	0.7	1.72E-04	4417	-0.6	1.06E-04
1021.0	-0.6	1.89E-05	7858	0.6	5.49E-06	4419	0.5	4.80E-03
1031.0	0.7	2.79E-04	7860	0.8	1.30E-06	4425	-0.7	1.48E-08
1037.0	0.8	8.13E-08	7861	0.9	8.63E-07	4426	0.9	2.55E-10
1049.0	0.4	7.73E-04	7871	-0.9	2.32E-15	4440	0.8	4.94E-03
1050.0	0.6	1.85E-05	7874	-0.4	2.56E-04	4443	-0.5	7.68E-03
1052.0	0.6	7.97E-06	7876	0.4	2.96E-04	4444	-0.5	7.78E-03
1056.0	-0.5	6.79E-06	7879	0.5	2.03E-04	4446	1.3	2.26E-16
1063.0	-0.4	1.46E-03	7883	-0.4	5.60E-03	4447	0.4	6.85E-04
1065.0	0.5	3.05E-05	7888	-0.5	1.45E-05	4470	-0.4	1.93E-03
1072.0	-0.4	1.38E-03	7889	0.7	1.84E-10	4472	0.5	2.94E-04
1074.0	-0.5	2.74E-03	7891	0.5	1.21E-04	4473	0.9	1.88E-03
1075.0	0.7	1.03E-04	7892	0.7	1.24E-04	4476	0.5	5.59E-05
1084.0	-0.6	5.62E-07	7895	-1.0	2.22E-04	4478	1.4	5.26E-18
1089.0	0.6	2.46E-07	7899	0.5	3.51E-05	4485	0.9	4.46E-13
1094.0	-0.5	1.35E-05	7900	1.3	2.89E-14	4487	-0.8	2.44E-14

1097.0	0.6	1.50E-07	7908	0.3	4.06E-03	4493	0.6	5.08E-05
1098.0	0.5	8.97E-05	7911	1.8	2.36E-06	4502	-0.5	1.56E-05
1100.0	0.4	3.19E-03	7915	-0.4	1.42E-03	4505	-0.8	2.67E-11
1110.0	1.1	8.82E-21	7916	-0.5	7.66E-05	4507	0.6	9.75E-07
1113.0	0.5	1.93E-05	7927	-0.6	1.14E-07	4510	-0.6	6.03E-04
1121.0	0.7	1.31E-06	7930	0.4	3.83E-03	4512	0.3	8.95E-03
1128.0	0.9	8.73E-10	7937	-0.3	4.61E-04	4517	-0.4	3.06E-04
1129.0	0.9	6.32E-10	7939	-0.7	3.65E-08	4523	-0.5	5.68E-08
1140.0	-0.6	3.35E-06	7950	0.5	1.02E-05	4528	1.0	1.76E-07
1142.0	0.4	7.47E-04	7956	0.6	1.78E-05	4529	1.2	2.05E-05
1144.0	-0.5	4.92E-05	7959	0.4	4.61E-04	4531	-0.4	5.42E-03
1149.0	0.4	2.33E-04	7964	-0.8	1.08E-12	4534	0.4	6.12E-04
1152.0	-0.6	4.08E-04	7965	-0.8	6.74E-14	4541	0.4	9.96E-04
1154.0	0.6	1.11E-03	7966	0.6	3.33E-05	4542	-0.9	5.17E-17
1158.0	-0.4	1.72E-04	7974	-1.1	1.89E-09	4543	-0.5	2.38E-03
1161.0	-0.3	8.11E-03	7981	-0.5	5.84E-04	4544	0.4	1.86E-04
1165.0	-0.3	4.36E-03	7982	-1.0	2.25E-15	4549	-0.9	7.62E-07
1170.0	0.5	1.52E-06	7983	-0.4	2.84E-04	4560	0.4	5.79E-04
1171.0	-0.5	1.30E-06	7997	-0.8	2.20E-06	4565	-0.6	1.16E-04
225								
1174.0	0.5	4.17E-03	8002	0.5	6.77E-04	4567	0.9	8.39E-06
1183.0	-0.4	8.70E-04	8003	0.6	1.48E-05	4572	0.7	8.56E-05
1185.0	-0.5	3.61E-06	8006	0.4	7.24E-04	4576	-0.4	1.67E-04
1186.0	-0.3	2.30E-03	8009	0.6	3.56E-06	4578	-0.4	1.13E-04
1187.0	-0.7	4.08E-08	8012	1.2	1.08E-08	4580	0.7	1.58E-04
1188.0	-0.7	3.20E-08	8013	1.1	1.61E-08	4581	-0.9	1.92E-18
1191.0	0.6	2.60E-05	8018	-0.7	2.75E-05	4583	-0.9	1.22E-14
1195.0	-0.6	8.32E-08	8022	0.9	4.36E-08	4586	0.4	2.06E-03
1198.0	-0.4	9.04E-03	8024	0.9	7.65E-11	4602	-1.2	3.12E-26
1213.0	-0.6	1.99E-07	8028	0.6	3.83E-05	4608	0.8	1.38E-09
1229.0	0.5	5.02E-06	8032	0.5	5.74E-06	4611	-0.4	1.50E-03
1231.0	-0.7	2.22E-04	8034	-0.6	1.18E-07	4615	1.1	1.55E-05
1237.0	0.7	1.09E-05	8035	-0.6	1.15E-07	4616	0.6	3.13E-07
1239.0	0.9	2.34E-10	8037	1.2	1.22E-10	4619	0.9	9.43E-14
1241.0	-0.4	1.49E-03	8039	0.5	1.09E-05	4620	-0.5	6.24E-05
1242.0	-0.4	6.45E-03	8040	-0.8	1.16E-09	4622	0.6	7.41E-06
1244.0	-0.7	8.70E-11	8044	-0.4	5.92E-07	4629	-0.4	8.21E-04
1246.0	0.3	2.85E-04	8048	0.4	2.62E-03	4634	1.5	1.17E-16
1247.0	0.3	2.03E-03	8052	-0.6	2.62E-08	4651	-1.0	8.42E-16
1251.0	-0.5	3.22E-05	8055	-0.7	3.60E-09	4654	0.9	1.14E-07
1252.0	0.9	8.65E-10	8059	-0.5	1.40E-03	4662	0.6	9.99E-06
1254.0	0.7	4.12E-05	8062	0.6	2.97E-05	4664	-0.5	8.01E-06
1255.0	-0.5	1.16E-06	8063	0.6	1.19E-05	4669	0.6	3.43E-06

1256.0	-0.5	1.74E-04	8075	0.4	1.73E-04	4670	0.5	2.50E-03
1260.0	-0.6	2.32E-07	8081	-0.4	2.43E-03	4671	0.4	4.40E-03
1263.0	0.6	2.99E-04	8085	0.5	2.13E-04	4675	-0.8	1.47E-13
1264.0	-0.4	3.31E-03	8087	0.6	2.72E-06	4677	0.3	5.71E-03
1265.0	-0.6	1.67E-06	8089	-0.8	4.06E-09	4678	-0.7	1.50E-06
1266.0	0.4	1.78E-03	8090	-0.6	6.04E-06	4679	0.8	9.84E-11
1267.0	-0.4	4.38E-04	8093	0.4	2.89E-04	4687	-0.4	2.71E-03
1268.0	0.6	4.60E-04	8094	-0.6	1.84E-07	4690	0.8	4.14E-05
1274.0	-0.6	9.31E-06	8105	-1.2	5.75E-20	4691	0.9	1.29E-11
1276.0	0.5	1.07E-03	8111	1.0	4.87E-18	4694	0.5	1.86E-04
1278.0	0.4	8.69E-04	8117	-0.6	1.21E-06	4696	0.7	1.03E-08
1281.0	-0.7	2.43E-07	8119	0.6	2.64E-08	4699	-0.5	3.41E-04
1283.0	-0.8	3.22E-06	8127	-1.0	1.75E-17	4728	-0.6	8.24E-07
1286.0	-0.6	1.56E-05	8129	0.7	1.20E-03	4731	0.8	2.71E-05
1287.0	1.2	2.35E-17	8133	0.6	2.37E-07	4746	-0.6	3.70E-07
1291.0	-0.4	2.37E-03	8134	-0.5	2.17E-04	4752	0.6	6.66E-07
1294.0	-0.3	5.41E-04	8142	0.7	3.77E-08	4753	0.5	6.64E-06
1297.0	0.9	1.66E-05	8143	0.7	7.95E-08	4756	-0.3	3.52E-03
1298.0	-0.5	8.43E-03	8146	-0.5	9.58E-07	4757	0.6	4.89E-06
1299.0	1.0	2.75E-07	8147	-0.7	1.16E-08	4758	0.6	2.06E-05
1305.0	-0.6	2.75E-08	8149	0.7	3.29E-09	4760	1.0	9.57E-11
1306.0	0.5	1.86E-04	8150	-0.7	1.76E-08	4761	1.0	9.55E-11
1309.0	-0.6	2.78E-03	8152	0.4	9.80E-04	4762	-0.3	6.27E-03
1320.0	0.4	1.74E-03	8161	-0.6	1.63E-07	4763	0.3	8.55E-03
1329.0	0.3	4.71E-03	8163	0.4	9.83E-05	4764	-0.7	4.38E-06
1332.0	-0.8	3.12E-07	8166	-0.8	9.82E-10	4765	0.7	2.89E-08
1339.0	0.9	1.11E-12	8168	0.7	2.61E-10	4766	0.5	1.78E-05
1340.0	-0.9	4.57E-06	8169	0.3	3.02E-03	4771	1.4	2.10E-11
1346.0	0.6	1.24E-05	8172	-0.8	1.07E-05	4774	-0.4	1.41E-03
1348.0	0.5	2.59E-03	8174	-1.1	1.34E-05	4780	-0.5	3.52E-05
1351.0	0.4	3.29E-03	8188	-0.6	2.08E-08	4786	0.8	4.33E-07
1354.0	0.6	6.85E-04	8189	0.5	5.61E-05	4789	0.5	3.10E-05
1356.0	-0.4	8.66E-04	8190	0.6	5.74E-03	4800	1.3	3.10E-08
1357.0	-0.6	2.90E-03	8192	-0.9	4.39E-13	4801	0.4	3.59E-04
1359.0	-0.5	3.09E-03	8193	-0.8	2.15E-08	4807	-0.7	1.27E-08
1363.0	0.8	1.13E-04	8194	1.2	7.49E-13	4808	0.4	1.29E-03
1364.0	-0.9	7.92E-20	8196	0.5	3.34E-04	4811	-0.5	8.93E-06
1366.0	-0.5	1.05E-05	8203	0.5	7.82E-03	4821	0.7	1.62E-04
1370.0	2.2	3.66E-14	8206	0.3	1.86E-03	4827	-0.8	4.56E-10
1373.0	-0.5	1.25E-03	8208	-0.3	1.27E-04	4831	0.3	8.68E-03
226								
1375.0	0.4	4.19E-03	8212	0.8	1.46E-06	4834	1.6	1.54E-05
1380.0	1.7	2.01E-12	8213	-0.6	4.29E-06	4837	0.7	7.41E-03

1385.0	0.9	1.46E-12	8219	-0.5	1.07E-03	4839	0.3	4.46E-04
1387.0	-0.4	5.87E-03	8220	0.9	2.14E-06	4841	0.4	7.07E-03
1390.0	1.6	5.41E-09	8230	0.5	5.10E-05	4843	-0.4	1.94E-03
1391.0	0.5	2.71E-05	8233	0.6	2.87E-07	4846	0.4	1.10E-03
1392.0	0.5	5.58E-03	8235	0.4	1.11E-03	4854	0.5	3.74E-05
1393.0	0.7	3.62E-09	8238	-0.3	8.93E-03	4858	0.5	1.32E-04
1395.0	-0.4	5.22E-04	8240	0.7	3.05E-07	4859	0.7	9.27E-07
1396.0	0.4	4.75E-04	8241	0.6	3.30E-06	4863	1.0	1.33E-20
1397.0	-0.7	6.18E-09	8243	0.5	4.20E-04	4864	0.7	5.37E-08
1401.0	0.8	2.40E-11	8244	0.3	7.33E-03	4868	0.4	1.71E-03
1404.0	-0.4	3.44E-04	8246	1.0	1.12E-03	4869	0.5	8.69E-04
1406.0	1.0	3.10E-14	8255	0.4	5.81E-04	4870	0.6	1.18E-04
1409.0	-0.4	3.83E-06	8259	-0.2	4.34E-03	4873	-0.4	6.13E-04
1410.0	0.7	1.62E-07	8260	-0.6	4.08E-07	4879	0.4	2.07E-03
1411.0	-0.5	1.35E-04	8261	-0.4	7.76E-05	4885	-0.3	5.42E-03
1415.0	0.3	5.24E-03	8264	0.8	4.73E-05	4887	0.8	1.23E-04
1429.0	1.0	2.25E-17	8267	1.0	9.33E-06	4890	1.2	2.28E-06
1430.0	0.6	1.49E-07	8271	-0.5	2.93E-04	4893	-0.8	8.70E-11
1431.0	-0.6	5.69E-08	8272	-0.7	6.25E-06	4894	0.4	3.77E-03
1434.0	-0.4	1.89E-05	8275	0.7	3.59E-04	4898	-0.6	3.74E-12
1436.0	0.8	1.10E-08	8276	0.6	6.48E-08	4905	1.0	3.33E-06
1439.0	-0.6	1.79E-07	8277	0.7	1.76E-03	4909	0.4	2.11E-04
1455.0	-0.7	2.10E-04	8281	0.4	6.96E-03	4911	-0.8	1.45E-07
1460.0	0.7	7.75E-05	8287	0.7	5.33E-10	4914	0.4	1.57E-03
1464.0	-0.9	3.73E-15	8289	0.5	1.69E-05	4917	-0.5	1.19E-05
1467.0	-0.5	8.24E-06	8300	0.4	6.94E-03	4919	-0.8	9.48E-04
1472.0	0.7	3.58E-09	8304	0.5	7.74E-05	4920	-0.3	7.41E-03
1475.0	0.7	1.56E-08	8315	0.4	1.42E-03	4936	0.7	2.47E-05
1478.0	-0.8	1.25E-07	8318	0.6	1.79E-07	4937	-0.6	2.03E-06
1479.0	-0.6	4.10E-05	8321	1.1	1.24E-08	4938	-0.7	1.33E-08
1491.0	-0.9	3.14E-15	8324	-0.4	1.35E-03	4948	0.4	4.21E-04
1498.0	1.1	4.88E-21	8330	-0.6	1.83E-07	4951	-0.8	7.59E-11
1500.0	-0.4	8.78E-03	8332	0.7	1.78E-06	4962	1.2	2.18E-07
1503.0	0.4	1.39E-03	8333	-0.6	7.45E-07	4966	-0.4	3.03E-03
1504.0	0.4	2.90E-04	8334	0.4	2.09E-03	4970	0.6	2.00E-04
1505.0	-0.7	4.99E-06	8336	0.6	9.33E-05	4973	-0.4	7.13E-04
1506.0	0.7	6.84E-05	8337	0.4	4.65E-04	4976	0.8	3.30E-04
1507.0	-0.6	2.94E-05	8340	1.0	1.73E-07	4978	1.3	1.09E-05
1512.0	0.9	8.56E-03	8341	-0.3	8.64E-03	4979	-0.4	6.88E-04
1525.0	-0.9	2.47E-04	8343	-0.4	1.19E-03	4980	-0.6	4.31E-05
1529.0	0.6	1.79E-05	8351	-0.8	1.90E-12	4981	-0.4	1.86E-03
1530.0	0.7	8.00E-09	8353	0.5	1.38E-06	4982	0.4	2.20E-03
1532.0	0.5	6.71E-04	8358	0.6	1.41E-05	4985	0.4	2.35E-03

1533.0	-0.7	1.71E-09	8360	-0.5	1.23E-03	4986	0.7	3.64E-05
1541.0	-0.5	4.50E-05	8361	-0.3	8.44E-03	4987	1.7	1.67E-06
1548.0	0.5	1.49E-05	8363	0.6	3.99E-05	4991	0.6	1.19E-07
1559.0	-0.5	5.41E-03	8368	0.3	4.91E-03	4995	0.6	1.78E-03
1560.0	-0.5	1.41E-04	8377	-0.4	3.14E-04	4996	1.0	2.15E-07
1571.0	0.5	1.44E-05	8383	-0.5	3.00E-04	4999	-0.4	3.19E-03
1572.0	0.9	1.19E-07	8384	1.3	2.13E-06	5004	0.9	1.33E-03
1573.0	-0.4	1.22E-03	8386	0.4	1.25E-03	5005	0.9	1.33E-03
1575.0	0.5	5.79E-05	8387	-0.6	3.54E-05	5010	1.1	2.10E-11
1577.0	-0.8	1.63E-08	8391	0.8	9.25E-13	5013	-0.4	5.94E-05
1579.0	0.4	3.98E-03	8392	-0.3	9.55E-03	5016	0.5	3.25E-08
1580.0	-0.5	2.64E-06	8395	0.6	1.05E-07	5025	-0.7	1.00E-10
1581.0	-0.5	1.71E-03	8397	-0.7	5.23E-09	5028	0.5	2.15E-05
1587.0	1.2	1.94E-04	8398	-0.5	6.24E-05	5034	-0.4	2.61E-03
1588.0	0.6	1.10E-06	8402	0.6	6.66E-04	5037	0.7	5.79E-09
1596.0	0.5	1.30E-05	8403	-0.5	2.11E-04	5041	-0.6	5.08E-05
1599.0	-0.8	1.18E-14	8413	-0.3	3.59E-03	5042	-0.4	2.41E-03
1604.0	0.4	8.16E-03	8415	-0.3	2.58E-03	5043	-0.4	2.58E-03
227								
1612.0	-0.7	1.08E-09	8420	-0.4	1.10E-04	5044	0.5	2.21E-03
1613.0	-0.6	6.62E-06	8421	1.4	9.81E-26	5046	0.5	3.45E-06
1614.0	-0.5	3.00E-05	8423	0.6	8.54E-07	5057	0.8	8.88E-08
1615.0	1.2	8.08E-07	8425	0.6	2.92E-06	5060	-0.6	3.39E-06
1616.0	-0.7	4.40E-09	8427	-0.5	9.59E-05	5061	1.0	1.61E-03
1617.0	0.7	3.06E-09	8433	0.5	2.20E-04	5063	1.0	1.39E-06
1620.0	0.7	3.35E-08	8434	1.6	9.62E-08	5069	-0.4	1.56E-03
1622.0	-0.5	3.78E-05	8436	0.7	1.32E-06	5070	-0.6	9.93E-07
1623.0	0.4	3.50E-04	8446	0.4	1.06E-03	5073	-0.6	5.92E-03
1625.0	-0.6	5.58E-09	8447	-0.7	1.42E-03	5074	0.9	1.33E-04
1628.0	0.5	1.29E-04	8451	0.5	1.49E-04	5076	-0.4	7.57E-03
1629.0	0.5	1.17E-04	8454	1.0	5.08E-14	5078	0.4	1.55E-05
1630.0	0.4	1.03E-03	8457	-0.4	8.77E-03	5079	-0.5	3.45E-06
1634.0	-0.5	2.99E-03	8460	0.5	5.54E-05	5083	-0.5	3.71E-05
1636.0	0.9	7.49E-04	8463	1.0	1.84E-04	5086	0.8	8.53E-14
1637.0	-0.7	2.09E-09	8464	-0.8	4.93E-12	5093	0.6	1.75E-06
1640.0	0.9	1.00E-09	8466	-0.6	1.03E-06	5094	-0.7	1.09E-05
1642.0	-0.4	4.59E-03	8467	-0.5	1.73E-05	5095	0.8	1.15E-06
1643.0	-0.6	1.69E-05	8480	-0.6	1.18E-04	5098	-0.4	1.68E-03
1644.0	1.0	1.18E-08	8484	0.8	3.16E-06	5102	1.2	9.67E-05
1648.0	-0.4	1.52E-04	8485	-0.6	4.21E-08	5109	-0.5	1.64E-04
1650.0	0.5	4.18E-05	8486	-0.5	3.89E-05	5111	1.0	5.21E-03
1653.0	-0.9	5.36E-17	8488	-0.4	1.93E-04	5114	-0.5	2.41E-03
1661.0	0.3	7.95E-03	8489	0.6	3.41E-04	5117	-0.7	4.61E-04

1663.0	0.7	2.34E-05	8490	1.6	1.74E-06	5122	0.5	6.96E-03
1664.0	0.4	1.74E-05	8508	0.5	6.67E-06	5124	0.8	2.63E-08
1677.0	-0.4	4.68E-04	8515	-0.3	5.98E-03	5125	-0.5	1.27E-06
1681.0	-0.9	3.38E-17	8522	-0.4	1.76E-03	5133	0.9	1.11E-03
1684.0	-0.7	4.25E-07	8523	-0.4	3.22E-03	5134	1.0	4.81E-18
1686.0	-0.6	6.77E-08	8524	-0.4	2.00E-03	5138	0.7	1.43E-09
1696.0	1.2	2.97E-04	8529	0.8	9.73E-05	5148	0.4	1.42E-03
1699.0	-0.9	1.00E-06	8532	0.6	3.00E-05	5149	0.5	2.41E-04
1702.0	-0.8	2.89E-05	8539	-0.5	2.08E-05	5162	0.3	8.69E-03
1710.0	0.4	1.16E-03	8540	-0.4	2.24E-04	5163	-0.4	4.51E-03
1717.0	0.8	4.08E-05	8541	-0.7	3.92E-06	5164	0.4	8.57E-04
1718.0	-0.6	5.25E-07	8544	0.4	7.54E-04	5165	-0.6	4.17E-07
1722.0	-0.8	4.83E-12	8547	1.0	5.31E-07	5172	0.7	1.29E-08
1727.0	-0.6	2.73E-07	8548	1.3	2.47E-06	5176	1.7	1.06E-05
1730.0	-0.6	3.57E-07	8550	0.7	5.19E-09	5179	0.9	5.95E-04
1731.0	0.7	2.74E-08	8555	-0.4	9.16E-03	5186	-0.5	3.07E-04
1740.0	0.4	3.81E-03	8557	0.9	5.01E-03	5201	0.4	2.55E-03
1741.0	-0.5	5.33E-06	8559	-0.7	1.47E-11	5204	0.6	1.54E-05
1743.0	1.0	1.38E-04	8560	0.7	2.88E-08	5207	-0.8	3.96E-09
1744.0	-0.6	5.22E-06	8563	-0.6	7.59E-06	5209	-0.5	9.42E-06
1745.0	-0.6	8.31E-06	8569	0.8	7.71E-04	5223	-0.3	8.64E-03
1751.0	-0.6	2.62E-07	8576	1.1	3.72E-15	5230	-0.7	1.28E-10
1752.0	-0.5	4.57E-05	8578	-0.7	2.32E-03	5231	-0.4	8.40E-04
1768.0	0.7	1.73E-04	8580	0.6	1.23E-04	5235	0.8	6.24E-08
1776.0	0.7	1.85E-07	8589	1.0	2.95E-10	5239	0.4	1.62E-03
1779.0	-0.5	3.09E-05	8592	0.9	4.63E-08	5242	-0.5	3.59E-07
1780.0	-0.7	3.02E-10	8593	0.8	1.69E-09	5253	-0.4	5.16E-04
1784.0	-0.7	4.40E-05	8596	0.8	2.27E-07	5255	-0.4	3.08E-04
1788.0	0.6	1.34E-05	8598	0.6	3.79E-06	5258	-0.8	4.20E-04
1790.0	0.5	3.99E-08	8600	-0.7	1.09E-07	5261	0.7	4.28E-08
1794.0	-0.3	8.70E-03	8601	0.5	9.58E-04	5267	0.9	2.21E-03
1795.0	0.5	2.74E-04	8603	-0.8	1.06E-03	5272	-0.4	1.65E-04
1799.0	-0.3	5.31E-03	8604	0.4	9.06E-04	5273	0.9	1.55E-13
1803.0	0.8	6.16E-05	8609	0.5	6.98E-03	5274	0.9	1.49E-13
1804.0	1.3	2.04E-06	8610	0.3	4.88E-03	5275	0.7	1.04E-07
1805.0	0.8	3.59E-07	8611	0.8	6.82E-12	5279	0.3	7.03E-03
1809.0	0.4	7.61E-04	8613	0.4	1.05E-03	5283	-0.5	4.79E-04
1813.0	-0.4	1.08E-03	8614	0.6	1.78E-04	5285	0.6	2.73E-05
1815.0	0.8	9.02E-04	8617	-0.7	3.61E-07	5291	-0.7	6.18E-05
228								
1816.0	-0.5	2.62E-03	8627	0.6	1.13E-04	5293	0.9	1.29E-05
1820.0	0.9	1.00E-08	8629	-0.5	2.13E-03	5294	-0.4	4.87E-03
1825.0	0.3	4.79E-03	8641	0.5	4.93E-05	5295	0.9	1.25E-07

1827.0	0.7	5.30E-10	8645	-0.4	2.19E-03	5302	0.4	8.58E-05
1829.0	0.7	2.92E-04	8647	0.6	1.62E-05	5306	0.5	1.60E-03
1830.0	0.4	4.90E-03	8649	0.6	5.41E-04	5308	0.7	3.09E-10
1836.0	0.9	1.33E-10	8650	0.6	6.72E-03	5317	-0.5	7.03E-05
1837.0	-0.3	4.95E-03	8651	0.7	1.06E-04	5320	-0.6	2.55E-05
1843.0	0.6	1.84E-04	8654	-0.5	2.64E-04	5329	1.1	2.56E-06
1846.0	1.1	2.54E-08	8662	1.1	2.13E-04	5330	-0.5	1.16E-04
1847.0	0.6	1.53E-04	8663	-0.4	1.75E-03	5331	0.4	3.54E-03
1857.0	-0.6	1.24E-06	8664	-0.5	1.63E-04	5343	-0.8	5.83E-09
1858.0	0.9	2.29E-14	8666	1.2	2.08E-04	5344	-0.8	4.89E-14
1859.0	0.4	1.15E-03	8667	0.9	3.44E-03	5345	-1.2	1.73E-28
1862.0	0.9	1.53E-12	8673	-0.3	5.63E-03	5350	-0.8	2.30E-08
1864.0	0.7	1.18E-05	8676	1.0	3.83E-14	5353	-0.5	2.27E-06
1867.0	1.2	1.43E-10	8679	-0.5	9.90E-07	5360	-0.5	1.92E-03
1869.0	-0.7	1.43E-08	8680	0.4	5.43E-03	5361	0.6	1.24E-04
1875.0	0.8	1.19E-04	8683	1.2	3.50E-12	5366	-0.5	3.53E-05
1876.0	-0.4	3.99E-04	8686	-0.4	6.35E-04	5367	0.4	1.86E-03
1879.0	0.8	1.76E-07	8688	0.5	4.47E-05	5368	-0.4	1.51E-03
1884.0	0.7	1.27E-06	8692	0.8	2.25E-05	5369	0.7	1.62E-05
1887.0	-0.4	2.73E-03	8693	1.4	5.18E-19	5372	0.6	9.37E-03
1889.0	0.9	6.57E-13	8694	-0.5	1.63E-04	5379	0.9	2.16E-13
1890.0	-0.9	1.79E-09	8699	0.7	1.73E-09	5381	-0.3	6.75E-03
1893.0	-0.5	3.42E-04	8700	-0.7	1.50E-08	5384	-0.4	6.91E-04
1894.0	0.7	5.81E-08	8702	-0.4	4.86E-03	5387	0.4	5.14E-03
1896.0	-0.4	2.08E-04	8704	0.8	1.74E-06	5396	-0.7	8.59E-03
1904.0	-0.4	7.24E-04	8706	0.8	4.78E-03	5399	0.9	4.36E-12
1905.0	0.9	1.91E-03	8707	1.0	2.90E-04	5402	0.6	2.89E-12
1906.0	0.8	1.73E-05	8708	0.9	4.63E-04	5405	0.5	1.59E-04
1910.0	-0.9	1.06E-06	8710	1.2	1.51E-11	5406	0.3	7.19E-03
1914.0	-0.6	1.36E-06	8715	0.8	3.24E-11	5412	0.4	2.16E-03
1919.0	0.7	7.61E-03	8720	0.3	2.20E-03	5414	1.0	3.64E-17
1920.0	-0.6	1.77E-05	8724	-0.8	2.06E-07	5419	-0.7	1.28E-08
1922.0	0.9	9.40E-16	8728	1.1	1.46E-11	5426	0.5	4.89E-04
1924.0	0.4	6.29E-03	8729	0.6	5.65E-03	5427	0.5	4.85E-04
1925.0	0.5	4.28E-04	8731	-0.7	3.19E-09	5429	-0.7	4.90E-07
1926.0	-0.8	9.63E-11	8732	-0.5	8.47E-06	5432	-0.8	2.43E-16
1927.0	1.0	2.78E-08	8733	0.5	9.53E-05	5434	0.9	1.66E-04
1928.0	1.1	1.48E-18	8740	-0.4	6.16E-06	5435	-0.4	4.88E-04
1929.0	-0.5	2.48E-05	8744	0.7	3.76E-08	5437	0.3	4.26E-03
1930.0	-0.5	2.14E-05	8747	-0.4	4.27E-04	5446	-0.5	3.40E-06
1938.0	0.8	4.53E-07	8756	-0.5	7.69E-05	5448	-0.6	3.27E-04
1939.0	-0.6	4.53E-08	8757	0.7	1.87E-07	5460	0.6	1.61E-03
1941.0	-0.9	3.10E-15	8759	1.2	5.30E-05	5463	0.4	1.45E-03

1942.0	0.7	1.15E-06	8764	0.7	3.52E-03	5465	-0.5	1.14E-04
1962.0	0.4	7.18E-04	8767	0.5	5.63E-04	5470	0.7	1.85E-07
1963.0	1.0	5.29E-04	8773	0.9	5.62E-12	5473	0.6	9.15E-07
1965.0	-0.4	2.53E-03	8777	0.3	8.72E-03	5477	-0.9	2.98E-04
1969.0	-0.6	3.26E-05	8780	-0.4	5.18E-03	5480	-0.5	2.77E-05
1971.0	0.5	1.55E-05	8782	-0.5	2.18E-04	5485	0.8	2.56E-03
1974.0	0.6	1.10E-07	8786	0.4	2.20E-03	5486	0.8	2.59E-03
1978.0	0.7	5.12E-05	8792	1.4	9.80E-10	5491	-0.7	6.08E-10
1980.0	-0.5	4.64E-04	8795	0.3	2.52E-03	5492	0.4	4.83E-03
1981.0	-0.6	2.99E-06	8796	-0.9	5.22E-05	5493	0.4	1.43E-03
1989.0	-0.4	1.49E-03	8800	-0.7	5.51E-06	5495	-0.6	3.18E-04
1990.0	1.4	2.78E-11	8801	0.6	1.38E-03	5499	-0.5	1.04E-04
1996.0	-0.7	8.98E-05	8805	0.8	9.55E-11	5501	-0.6	8.95E-07
2004.0	-0.7	4.92E-07	8810	0.3	3.68E-03	5502	-0.5	1.87E-06
2009.0	0.5	6.22E-05	8814	0.4	4.18E-03	5505	1.5	5.90E-08
2011.0	0.4	2.34E-03	8815	-0.6	1.12E-06	5509	-0.4	7.33E-03
2014.0	-0.6	6.67E-04	8820	0.3	8.35E-03	5511	0.4	3.25E-04
229								
2015.0	0.8	2.22E-04	8822	0.8	9.97E-11	5512	0.7	1.11E-05
2018.0	-0.4	7.30E-04	8824	1.0	5.06E-06	5513	0.6	7.58E-07
2019.0	-0.4	5.89E-04	8832	0.9	2.16E-06	5514	-0.8	7.11E-04
2024.0	-0.6	6.48E-05	8834	-0.7	1.38E-08	5520	-0.6	4.15E-06
2030.0	-0.4	8.96E-04	8839	1.7	5.82E-14	5522	0.8	1.27E-10
2035.0	0.6	9.40E-08	8841	0.5	1.82E-03	5526	-0.6	8.09E-04
2037.0	0.3	8.27E-03	8848	0.8	3.28E-11	5527	-0.8	1.89E-11
2038.0	-0.8	1.97E-03	8849	1.3	1.41E-09	5536	0.4	6.14E-04
3168.0	-0.5	4.27E-05	9956	-0.6	4.43E-04	2946	-0.5	4.69E-05
3170.0	-0.6	1.84E-04	9957	0.7	1.57E-06	2954	0.3	1.27E-04
3172.0	0.7	2.37E-03	9959	-0.8	6.69E-14	2955	1.5	7.50E-12
3176.0	-0.5	2.77E-05	9961	-0.7	7.63E-09	2959	0.9	2.48E-13
3177.0	0.8	5.59E-05	9964	-0.6	4.69E-06	2965	-0.4	4.69E-04
3183.0	0.6	3.61E-07	9968	-0.3	7.73E-03	2968	0.5	8.81E-05
3184.0	-0.6	2.50E-07	9971	-0.6	1.18E-04	2970	0.6	2.40E-04
3188.0	0.3	4.86E-03	9975	0.3	1.51E-03	2971	0.7	3.40E-08
3189.0	0.8	9.97E-11	9982	0.7	6.52E-09	2974	1.1	4.45E-10
3190.0	-0.6	3.94E-05	9989	-0.5	6.96E-04	2995	-0.3	9.98E-03
3196.0	0.4	7.45E-03	9992	0.5	3.75E-03	2997	-0.3	1.41E-03
3199.0	0.5	2.85E-04	9993	0.4	5.48E-06	2998	0.8	3.60E-07
3205.0	1.2	1.69E-06	9995	-0.9	2.01E-15	3004	-0.3	2.48E-03
3206.0	-0.9	2.29E-06	10001	-0.4	5.93E-04	3010	0.5	6.94E-04
3210.0	-0.4	7.71E-04	10003	0.7	6.35E-09	3011	-0.9	1.41E-03
3213.0	0.9	1.03E-04	10006	0.7	2.92E-08	3018	0.5	1.42E-03
3218.0	0.9	5.65E-10	10011	0.9	2.33E-14	3026	0.6	2.82E-06

3220.0	-0.5	2.82E-05	10021	0.4	1.04E-03	3027	0.9	8.87E-05
3227.0	0.9	1.03E-08	10024	0.4	4.02E-03	3029	0.8	2.21E-03
3230.0	-0.5	8.02E-03	10026	0.6	4.04E-06	3033	1.6	9.09E-08
3235.0	0.4	5.90E-04	10031	0.7	1.78E-03	3037	0.4	8.32E-04
3239.0	0.5	7.22E-03	10035	-0.5	1.06E-05	3040	0.3	2.66E-03
3240.0	0.5	6.79E-03	10036	0.6	4.24E-07	3042	-0.5	1.39E-04
3241.0	0.7	2.29E-05	10039	0.6	1.21E-04	3044	1.2	1.91E-10
3245.0	-0.8	3.16E-10	10044	-0.5	1.25E-05	3048	-1.0	8.89E-16
3248.0	0.7	1.09E-03	10046	0.6	2.91E-07	3050	1.0	2.47E-08
3254.0	0.4	9.92E-03	10047	-0.4	2.94E-03	3053	-0.6	7.69E-05
3266.0	-0.4	1.54E-04	10053	0.8	1.31E-04	3062	0.4	1.48E-03
3270.0	-0.6	4.75E-05	10056	-0.9	2.85E-07	3069	-0.8	1.06E-13
3276.0	0.4	2.23E-04	10059	0.6	1.23E-06	3072	-0.5	2.34E-03
3277.0	0.4	2.47E-04	10062	0.9	7.15E-14	3074	0.6	4.46E-04
3281.0	0.7	4.52E-04	10064	1.1	6.31E-05	3077	-0.3	3.85E-03
3286.0	-0.7	2.62E-08	10066	0.6	5.71E-08	3079	0.6	4.16E-05
3289.0	0.6	1.25E-03	10067	-0.3	4.80E-04	3084	0.5	1.60E-04
3310.0	-0.7	4.16E-09	10074	0.5	5.04E-03	3085	0.4	2.77E-03
3312.0	0.8	5.62E-10	10077	0.5	5.92E-08	3092	-0.8	1.23E-03
3313.0	0.8	7.18E-10	10078	-0.9	7.94E-03	3097	0.6	5.21E-05
3317.0	-0.9	3.13E-12	10079	-0.9	9.87E-07	3100	0.6	4.10E-04
3321.0	-0.6	7.57E-08	10080	0.4	1.99E-03	3102	-0.8	1.84E-04
3322.0	0.7	2.04E-06	10084	-0.9	3.23E-10	3104	0.8	2.55E-11
3327.0	0.8	1.04E-04	10092	1.0	3.47E-18	3107	0.5	9.12E-03
3334.0	0.7	2.66E-05	10095	-0.5	2.80E-08	3108	0.6	5.57E-07
3340.0	-0.3	8.54E-03	10102	-0.4	3.35E-03	3116	-0.5	3.32E-03
3341.0	0.6	4.39E-04	10107	0.5	5.00E-05	3117	-1.0	2.18E-04
3343.0	0.3	9.41E-04	10110	-0.4	1.96E-04	3118	0.4	2.18E-03
3344.0	0.3	5.56E-03	10114	-0.8	1.55E-06	3120	0.3	6.15E-03
3353.0	-0.5	4.34E-05	10115	0.4	2.07E-03	3124	0.5	1.29E-06
3359.0	0.6	4.16E-06	10117	0.7	1.67E-09	3125	0.4	8.59E-04
3367.0	-0.5	2.76E-03	10119	0.4	1.96E-03	3129	-0.4	1.33E-04
3368.0	0.5	7.78E-03	10122	0.4	6.03E-03	3131	-0.3	4.59E-03
3369.0	-1.0	2.61E-06	10124	0.8	1.65E-11	3133	-0.4	2.69E-03
3371.0	-0.7	4.77E-11	10132	-0.4	1.13E-03	3142	-0.4	2.49E-05
3372.0	0.6	3.26E-08	10138	0.8	4.49E-03	3143	0.7	1.35E-06
3374.0	0.6	3.74E-04	10139	1.1	5.98E-22	3144	0.6	2.28E-06
3376.0	-0.4	2.76E-03	10143	0.5	1.23E-03	3145	0.6	1.61E-06
230								
3379.0	1.1	4.88E-07	10148	0.9	2.83E-13	3146	-0.3	9.58E-03
3390.0	-0.9	3.15E-07	10153	0.4	2.78E-04	3149	-0.4	2.95E-03
3391.0	-0.6	2.63E-08	10156	0.9	3.30E-03	3150	0.5	5.22E-05
3392.0	-0.9	4.98E-09	10157	1.0	4.06E-20	3152	-0.5	5.60E-06

3395.0	-0.8	5.63E-07	10160	-0.8	3.33E-12	3153	0.4	2.01E-04
3396.0	0.5	2.40E-04	10161	0.7	3.44E-05	3158	0.7	4.63E-10
3407.0	-0.6	2.90E-07	10162	0.7	1.49E-08	3165	1.2	7.20E-14
3417.0	-0.3	9.44E-03	10173	0.4	6.15E-03	3166	0.4	3.31E-04
3420.0	-0.6	1.96E-06	10176	-0.4	5.21E-04	3167	0.6	5.62E-06
3423.0	-0.8	7.61E-11	14113	-0.70	1.34E-08	14989	1.14	1.00E-05
3435.0	0.6	6.88E-03	14125	0.35	6.60E-03	14990	0.64	1.68E-03
3438.0	0.4	1.34E-07	14131	0.41	5.75E-04	14999	1.50	1.04E-05
3439.0	0.5	8.22E-03	14144	-0.33	4.70E-03	15003	0.66	1.14E-07
3440.0	1.0	5.20E-03	14153	0.51	4.37E-04	15008	1.25	5.47E-13
3441.0	-0.6	2.74E-03	14166	0.57	6.93E-03	15026	0.61	1.31E-07
10177	-0.4	2.18E-04	14170	-0.65	5.95E-09	15042	0.71	1.11E-04
13312	0.37	3.27E-03	14176	0.66	5.07E-04	15047	0.57	4.74E-05
13323	0.96	2.63E-03	14182	-0.45	1.27E-04	15050	0.57	7.42E-05
13326	-0.53	8.08E-03	14189	-0.55	5.96E-04	15060	1.01	6.64E-16
13328	-0.88	1.89E-13	14191	0.41	5.54E-03	15062	0.99	8.04E-04
13332	0.59	5.77E-04	14194	0.90	7.55E-07	15077	-0.30	8.61E-03
13336	0.89	3.28E-12	14195	0.76	1.34E-06	15084	0.71	9.10E-03
13340	0.51	2.35E-03	14197	0.86	5.42E-06	15086	0.62	2.02E-06
13352	0.50	1.33E-03	14206	-0.56	2.29E-04	15103	0.55	6.60E-04
13355	0.38	1.53E-03	14213	-0.47	6.91E-05	15104	-0.48	5.43E-05
13367	-0.58	1.54E-07	14222	1.00	9.95E-06	15110	0.35	5.37E-03
13368	0.61	5.97E-03	14237	0.99	3.13E-10	15113	0.63	4.03E-03
13378	1.05	1.90E-04	14242	0.30	9.04E-03	15114	0.38	6.14E-03
13381	0.77	9.05E-05	14244	1.21	9.70E-29	15128	-0.49	7.14E-05
13382	-0.38	7.99E-03	14246	0.62	2.77E-07	15131	0.40	7.51E-04
13383	-0.50	5.52E-04	14253	-0.57	3.58E-03	15133	1.40	9.00E-05
13384	0.47	2.33E-04	14259	0.63	3.45E-03	15150	-0.69	2.57E-08
13406	0.37	3.53E-03	14262	-0.32	6.30E-03	15164	-0.52	2.93E-06
13434	-0.53	1.24E-05	14265	0.37	2.82E-03	15172	-0.40	3.98E-04
13455	0.38	5.51E-04	14273	0.66	6.40E-07	15184	1.03	3.59E-16
13457	0.64	9.72E-06	14278	-0.37	1.79E-03	15187	1.01	4.36E-04
13480	-0.81	6.51E-03	14284	0.77	7.21E-04	15188	0.57	5.96E-05
13484	-0.48	5.99E-04	14290	0.63	1.22E-03	15192	0.68	4.91E-04
13486	-0.43	3.72E-03	14295	-0.54	3.03E-05	15204	0.56	6.66E-05
13497	0.38	8.31E-04	14296	0.74	6.82E-10	15209	0.56	1.84E-06
13517	0.82	2.22E-06	14297	0.37	4.27E-03	15211	1.06	5.74E-13
13519	-1.20	8.80E-10	14301	-0.58	6.69E-09	15215	0.40	9.27E-04
13521	-0.40	1.92E-03	14306	-0.40	8.63E-04	15237	0.80	1.83E-04
13523	-0.68	2.14E-06	14307	-0.74	5.19E-11	15238	0.39	1.56E-03
13526	-0.42	2.16E-04	14309	-0.40	4.06E-04	15239	-0.66	4.66E-07
13527	1.03	2.77E-18	14310	0.36	4.61E-03	15243	0.72	5.24E-05
13538	0.52	4.84E-05	14311	0.41	6.39E-04	15244	1.49	2.04E-12

13552	-0.32	6.50E-03	14313	-0.70	9.53E-10	15252	-0.64	5.29E-07
13561	0.73	7.77E-05	14330	0.83	1.47E-13	15260	1.13	5.31E-14
13565	0.55	1.24E-05	14333	-0.40	3.43E-04	15291	-1.02	1.31E-14
13578	-0.58	4.87E-07	14334	0.56	1.30E-06	15295	-0.73	3.94E-03
13608	-0.77	4.14E-11	14346	0.77	4.70E-03	15302	-0.58	1.71E-05
13609	-0.37	1.78E-03	14369	-0.47	6.25E-03	15309	-0.85	1.49E-13
13626	0.97	6.66E-03	14377	-0.53	1.55E-06	15320	0.75	1.57E-03
13629	-0.75	4.76E-11	14379	1.02	3.16E-04	15327	0.57	2.75E-03
13635	0.34	2.64E-03	14381	1.19	3.00E-11	15331	0.45	2.96E-03
13637	0.52	1.21E-04	14390	-0.69	2.39E-08	15333	-0.77	1.04E-10
13642	-0.33	5.95E-03	14391	0.71	1.40E-09	15351	-0.52	1.88E-05
13652	-0.49	1.05E-04	14405	-0.47	1.60E-03	15354	0.66	5.62E-04
13656	0.40	1.48E-05	14406	0.75	1.15E-04	15368	0.65	1.27E-06
13663	0.78	1.56E-10	14411	0.74	6.41E-11	15375	0.45	1.78E-04
13668	-0.71	9.76E-08	14414	-0.46	6.66E-09	30	-0.15	5.00E-02
13675	0.35	2.75E-03	14424	0.61	3.58E-04	72	0.33	5.00E-02
231								
13687	0.45	1.47E-03	14430	-0.79	2.08E-10	921	-0.30	5.00E-02
13706	-0.69	1.64E-05	14436	-0.32	7.57E-03	1017	0.16	5.00E-02
13707	1.88	2.69E-11	14441	-0.47	5.21E-05	1775	0.16	5.00E-02
13710	-0.34	1.04E-03	14448	0.47	1.49E-03	2139	0.12	5.00E-02
13711	-0.70	6.80E-05	14451	-0.62	6.90E-06	2273	0.18	5.00E-02
13712	0.47	2.00E-04	14454	-0.54	6.59E-04	2678	-0.28	5.00E-02
13716	0.42	2.53E-04	14474	0.50	2.03E-03	2912	0.22	5.00E-02
13737	-0.35	7.08E-03	14476	-0.56	5.23E-05	2993	0.17	5.00E-02
13741	0.37	3.50E-03	14479	0.60	4.20E-05	3319	-0.23	5.00E-02
13754	-0.68	3.32E-03	14484	-0.59	3.53E-08	3525	0.28	5.00E-02
13767	0.35	4.72E-03	14498	0.75	3.44E-06	4208	0.21	5.00E-02
13772	-0.53	3.23E-06	14502	0.88	7.21E-03	4220	-0.50	5.00E-02
13777	-0.50	7.61E-04	14504	1.12	2.37E-05	4323	0.34	5.00E-02
13783	0.55	2.32E-06	14507	-0.55	1.04E-06	4684	0.23	5.00E-02
13786	-0.80	7.02E-04	14523	-0.67	1.56E-08	5271	0.60	5.00E-02
13788	0.41	8.79E-03	14524	1.16	1.25E-10	5311	0.33	5.00E-02
13791	-0.46	2.20E-05	14544	-0.50	7.66E-04	5312	1.24	5.00E-02
13793	0.87	1.14E-09	14555	-0.73	2.29E-09	5516	1.68	5.00E-02
13795	-0.59	1.22E-06	14560	0.57	9.21E-04	5615	-0.21	5.00E-02
13798	0.38	6.43E-03	14582	-1.06	3.46E-17	5920	-0.32	5.00E-02
13812	0.45	2.18E-04	14588	0.45	9.20E-03	6044	-0.23	5.00E-02
13813	0.58	2.19E-06	14603	-0.67	3.15E-09	6425	-0.17	5.00E-02
13814	0.78	1.55E-04	14612	0.76	2.44E-11	6514	0.31	5.00E-02
13819	-0.52	7.27E-06	14616	0.69	2.11E-04	6853	-0.88	5.00E-02
13831	0.44	3.23E-04	14623	-0.48	1.13E-03	6893	2.22	5.00E-02
13832	-0.56	4.74E-06	14628	0.56	1.11E-07	7067	0.15	5.00E-02

13836	-0.79	2.53E-03	14631	0.38	1.16E-03	7163	0.19	5.00E-02
13839	0.65	4.28E-06	14635	-0.76	1.73E-03	7215	-0.16	5.00E-02
13847	0.40	3.85E-03	14649	-0.70	2.99E-08	7346	0.88	5.00E-02
13852	-0.40	3.37E-04	14651	-0.49	2.88E-05	7347	0.16	5.00E-02
13857	-0.30	7.80E-03	14658	-0.34	6.95E-04	7440	-0.48	5.00E-02
13860	0.57	4.41E-04	14661	0.70	8.75E-09	7887	-0.24	5.00E-02
13869	0.39	7.14E-03	14663	-0.68	2.14E-05	7977	-1.01	5.00E-02
13871	-0.29	6.76E-04	14668	0.93	1.09E-07	8050	0.16	5.00E-02
13878	0.63	1.56E-05	14688	-0.61	1.18E-05	8494	-0.43	5.00E-02
13879	0.47	1.75E-04	14695	0.69	1.46E-07	8932	0.21	5.00E-02
13882	-0.55	6.30E-03	14699	-0.77	4.79E-12	8998	0.65	5.00E-02
13884	0.40	4.37E-03	14700	0.56	9.54E-07	9116	1.46	5.00E-02
13885	-0.46	2.24E-03	14705	0.77	1.73E-07	9354	-0.14	5.00E-02
13898	-0.73	1.07E-09	14734	1.27	3.93E-22	9966	0.18	5.00E-02
13900	-0.47	7.93E-05	14738	1.22	8.03E-06	10416	-0.63	5.00E-02
13901	-0.45	1.64E-03	14739	-0.40	4.21E-04	10566	0.30	5.00E-02
13906	0.70	6.52E-07	14762	0.60	4.21E-03	10705	-1.41	5.00E-02
13913	-0.32	9.02E-03	14773	0.59	7.30E-05	11005	-1.03	5.00E-02
13916	0.98	3.30E-05	14778	-0.62	2.63E-08	11118	0.27	5.00E-02
13917	0.70	2.64E-08	14781	1.01	4.15E-04	11129	0.87	5.00E-02
13927	-0.82	4.42E-07	14783	-0.65	6.23E-08	11263	0.64	5.00E-02
13934	0.45	2.01E-04	14791	-0.37	1.59E-03	11300	-1.75	5.00E-02
13939	0.38	2.65E-03	14801	0.51	4.16E-05	11319	0.84	5.00E-02
13949	0.69	6.54E-05	14806	1.04	2.65E-05	11505	0.14	5.00E-02
13955	-0.39	3.19E-03	14817	1.18	5.29E-11	11904	0.34	5.00E-02
13971	-0.41	9.66E-04	14818	0.40	8.16E-04	11926	-0.50	5.00E-02
13981	0.43	6.29E-03	14828	-0.51	1.27E-05	11970	-0.16	5.00E-02
13984	1.02	2.01E-17	14839	0.74	3.03E-09	12001	-0.43	5.00E-02
13985	0.44	9.11E-05	14844	-0.70	1.21E-04	12055	-0.16	5.00E-02
13998	-0.71	4.64E-08	14872	1.27	3.33E-04	12467	-0.18	5.00E-02
14009	0.45	5.70E-04	14873	0.38	3.04E-03	12468	-0.79	5.00E-02
14010	0.56	1.38E-06	14886	-0.68	1.05E-09	12472	-0.96	5.00E-02
14019	-0.41	1.34E-04	14891	0.47	8.28E-03	12966	-0.79	5.00E-02
14031	0.43	3.94E-04	14893	0.50	8.89E-03	13150	-0.11	5.00E-02
14033	0.43	3.31E-03	14904	-0.73	3.73E-10	13301	-0.28	5.00E-02
14038	0.62	1.12E-07	14906	-0.84	1.22E-03	13364	-0.63	5.00E-02
14049	-0.45	1.34E-04	14915	-0.65	1.69E-08	13488	1.04	5.00E-02
232								
14050	-0.47	8.20E-05	14925	-0.39	5.63E-04	13613	-1.39	5.00E-02
14052	0.69	5.29E-08	14937	-0.78	2.72E-15	13768	-1.07	5.00E-02
14057	0.40	8.77E-04	14938	-0.85	4.72E-05	14121	-0.81	5.00E-02
14071	0.62	4.93E-08	14940	-0.48	3.67E-04	14129	1.10	5.00E-02
14079	-0.85	1.32E-13	14944	0.95	1.48E-03	14215	-1.00	5.00E-02

14081	0.73	3.56E-05	14966	0.70	7.92E-09	14548	2.35	5.00E-02
14083	0.57	2.70E-03	14972	-0.67	2.72E-09	14574	-0.76	5.00E-02
14086	0.55	1.17E-06	14973	-0.65	4.56E-07	14644	0.67	5.00E-02
14088	-0.40	4.60E-04	14974	0.73	4.97E-07	14779	-0.32	5.00E-02
14106	-0.44	1.09E-05	14975	-0.59	1.67E-05	14814	0.62	5.00E-02
14111	0.59	3.47E-06	14979	-0.48	2.29E-03	14827	0.27	5.00E-02

A	B	C	A	B	C
10199	-0.68	3.94E-10	5539	0.4	3.99E-03
10200	-0.81	2.62E-13	5541	0.6	3.98E-03
10206	-0.70	5.27E-09	5546	0.4	3.49E-03
10212	0.99	1.07E-08	5565	-0.3	7.25E-03
10226	-0.58	1.05E-06	5570	-0.9	1.51E-21
10233	-0.53	1.88E-05	5574	0.6	1.29E-06
10248	-0.43	4.67E-04	5576	-0.5	2.76E-03
10253	0.33	5.32E-03	5577	-0.5	6.37E-03
10254	0.52	9.12E-03	5578	-0.7	3.66E-07
10258	0.53	1.24E-03	5579	0.4	2.03E-04
10266	-0.42	2.24E-03	5580	0.7	1.57E-09
10268	0.31	6.54E-03	5583	1.1	7.70E-05
10269	0.60	5.58E-03	5588	-0.5	1.09E-03
10271	0.30	2.91E-04	5590	-0.5	5.10E-06
10274	0.69	1.63E-05	5592	-0.7	1.73E-09
10283	0.77	1.98E-07	5593	0.8	4.35E-07
10286	0.43	1.88E-03	5595	1.0	1.96E-03
10290	-0.49	3.49E-05	5596	0.5	3.12E-05
10291	0.51	2.14E-05	5597	0.5	3.60E-05
10299	-0.56	7.58E-05	5602	0.7	2.27E-08
10300	0.38	8.15E-03	5605	0.6	2.78E-03
10304	0.65	7.29E-07	5606	0.6	5.24E-03
10305	0.68	5.97E-09	5608	1.2	2.92E-20
10315	0.62	2.76E-04	5613	-0.4	3.21E-03
10317	0.68	1.92E-06	5614	1.2	1.64E-07
10324	0.72	3.96E-11	5617	0.3	8.15E-03
10327	0.46	1.47E-03	5619	-0.5	1.41E-05
10333	-0.50	5.30E-06	5624	0.6	1.40E-04
10341	1.10	6.65E-13	5625	0.7	2.31E-05
10346	0.91	6.97E-03	5626	-0.5	8.14E-05
10350	-0.31	1.69E-03	5627	-0.5	7.40E-06
10353	-0.71	1.15E-05	5630	-0.6	2.41E-05
10355	-0.67	1.99E-07	5637	-0.6	4.69E-06
10358	0.46	5.22E-03	5638	-0.7	9.82E-06
10362	0.45	1.99E-03	5639	0.4	1.03E-04
10366	0.59	7.59E-04	5647	0.6	1.05E-05
10367	-0.36	2.04E-03	5660	-0.3	8.11E-03
10368	-0.48	4.57E-03	5662	-0.3	3.29E-03
10370	-0.63	1.84E-08	5665	-0.6	2.50E-05
10374	0.61	4.85E-08	5668	0.8	1.21E-10

10375	0.84	3.36E-09	5670	-0.5	2.32E-04
10386	0.58	9.38E-07	5674	1.6	3.65E-17
10387	0.47	1.20E-04	5677	-0.8	9.80E-11
10393	0.43	7.97E-03	5678	-0.6	2.93E-06
10396	0.67	4.15E-04	5680	0.4	1.02E-03
10397	-0.36	6.50E-03	5682	-0.4	1.00E-04
10400	0.52	5.97E-03	5684	-0.6	1.91E-03
10402	0.65	1.24E-08	5688	1.1	8.32E-08
10408	0.53	1.57E-05	5691	-0.4	1.43E-03
10409	-0.50	1.09E-05	5693	0.7	6.81E-10
10421	-0.51	1.24E-03	5695	-1.3	4.44E-06
10422	-0.55	6.66E-04	5703	-0.7	3.96E-10
10423	-0.51	2.45E-05	5704	-0.7	9.36E-10
10427	0.81	2.45E-04	5705	-0.5	4.61E-06
10436	0.85	1.78E-04	5707	0.6	6.06E-06
10438	-0.79	1.59E-13	5708	1.0	4.41E-06
10439	-0.72	2.56E-09	5711	0.6	5.86E-06
10440	-0.50	6.27E-03	5712	0.5	4.78E-03
10444	1.34	1.53E-21	5713	-0.7	3.05E-10
10448	0.61	1.06E-06	5714	-0.4	7.55E-05
10453	0.87	1.49E-03	5715	0.7	1.18E-03
10454	-0.70	6.02E-11	5723	0.7	8.42E-04
10456	0.52	1.10E-03	5741	0.4	1.10E-04
10457	-0.29	6.62E-04	5742	0.4	8.90E-05
10462	-0.68	1.47E-08	5753	0.6	6.57E-03
10464	-0.52	2.20E-03	5754	0.9	9.62E-18
10474	0.84	3.89E-09	5756	-0.6	4.19E-06
10480	0.80	8.68E-09	5761	-0.7	5.25E-09
10481	-0.51	1.34E-04	5762	-0.7	6.36E-09
10487	0.77	1.19E-07	5763	-0.8	1.19E-04
10490	0.53	4.37E-05	5764	-0.4	5.47E-03
10492	-0.48	7.17E-05	5772	-0.8	5.94E-04
10494	-0.53	2.44E-08	5777	-0.4	7.33E-03
10498	0.90	2.17E-06	5781	-0.3	7.64E-03
10506	0.40	4.24E-03	5784	1.0	9.46E-11
10507	0.49	7.89E-05	5785	1.6	1.16E-17
10509	0.47	1.44E-03	5788	0.9	5.77E-09
10513	0.35	2.24E-03	5790	0.5	6.80E-03
10515	1.03	4.19E-07	5791	0.6	1.65E-07
10520	1.77	5.28E-11	5792	-0.7	3.37E-04
10524	0.47	1.05E-04	5798	0.4	1.17E-03
10555	-0.51	1.12E-03	5800	0.6	4.24E-07

10558	0.37	5.78E-03	5804	0.6	2.68E-03
10561	0.59	5.42E-04	5806	1.4	4.67E-14
10563	0.47	7.20E-03	5807	-0.3	6.20E-03
10569	-0.44	2.75E-04	5809	1.0	8.46E-04
10570	0.65	2.46E-07	5812	-0.4	3.00E-03
10576	0.63	5.33E-08	5814	-0.4	8.85E-04
10584	0.37	2.20E-03	5815	0.6	2.41E-04
10586	0.59	5.50E-03	5819	0.7	1.93E-05
10588	-0.51	2.34E-05	5821	0.5	1.04E-05
10590	0.35	2.28E-03	5823	0.9	1.36E-03
10593	-0.35	2.38E-03	5824	0.9	1.33E-03
10599	0.62	3.34E-04	5825	1.1	2.54E-10
10601	0.52	7.92E-05	5828	0.6	1.09E-03
10604	1.32	5.02E-18	5831	0.5	7.91E-05
10605	0.42	1.99E-03	5835	-0.3	7.15E-03
10608	0.74	1.03E-07	5838	0.8	2.66E-10
10612	0.75	3.57E-06	5841	-0.4	2.88E-04
10622	0.90	2.55E-04	5846	-0.6	2.65E-05
10624	0.41	2.53E-03	5850	-0.4	2.76E-03
10625	-0.39	1.03E-03	5856	-0.4	7.42E-05
10631	-0.59	4.70E-06	5859	0.6	6.32E-07
10633	0.72	2.31E-07	5861	-0.8	6.85E-06
10634	-0.37	4.60E-03	5866	0.7	6.79E-04
10636	0.75	1.79E-04	5868	-0.9	8.66E-15
10649	-0.65	1.65E-08	5870	-0.4	1.24E-04
10666	0.46	9.74E-03	5871	-0.8	5.63E-06
10668	1.59	2.95E-08	5872	-0.9	3.36E-07
10674	0.64	4.16E-07	5873	0.5	2.38E-04
10677	-0.73	1.06E-09	5875	0.4	1.68E-03
10678	0.93	3.89E-04	5880	-0.6	1.79E-06
10681	0.34	4.24E-03	5883	0.5	2.24E-04
10688	0.58	1.56E-06	5884	0.8	7.76E-11
10696	0.45	2.36E-03	5887	1.3	5.57E-08
10717	0.66	1.01E-06	5897	1.1	1.62E-18
10722	-0.56	5.66E-05	5898	0.9	3.64E-06
10724	0.88	5.94E-04	5900	0.9	3.83E-04
10730	-0.33	7.02E-03	5901	0.5	7.84E-05
10731	0.69	1.27E-03	5904	-0.6	1.85E-07
10734	-0.67	6.29E-09	5906	-0.7	5.45E-08
10738	0.71	5.19E-05	5914	-0.9	5.88E-16
10744	0.47	7.36E-03	5916	-0.5	2.17E-04
10748	-0.64	3.48E-07	5918	0.7	8.22E-05

10752	0.32	8.05E-03	5923	-0.6	1.69E-06
10755	-0.38	1.11E-03	5924	0.5	3.14E-04
10758	1.54	3.12E-08	5929	0.8	2.04E-07
10759	0.54	9.57E-03	5930	1.3	5.16E-23
10763	1.43	1.25E-08	5931	-0.7	1.85E-06
10767	0.56	2.39E-03	5933	0.9	9.80E-06
10775	0.58	6.82E-07	5942	-0.9	8.21E-08
10778	-0.65	8.92E-10	5946	0.5	4.78E-04
10807	0.38	1.82E-03	5948	0.3	6.56E-03
10813	-0.82	5.43E-09	5952	0.7	3.23E-09
10815	-0.48	1.78E-04	5953	0.7	1.35E-08
10818	0.39	1.79E-03	5955	-0.7	2.06E-07
10832	0.55	3.69E-03	5956	0.8	2.10E-03
10837	-0.42	8.68E-05	5958	-0.6	1.37E-04
10838	-0.67	7.76E-09	5966	-0.7	7.24E-10
10840	0.47	1.45E-04	5968	0.8	8.80E-12
10858	-0.38	3.65E-03	5969	0.5	4.48E-05
10865	-0.38	1.37E-03	5970	-1.0	1.79E-16
10872	1.09	1.81E-11	5971	-1.1	8.37E-21
10883	0.46	1.08E-04	5973	-0.3	3.77E-03
10888	0.70	1.35E-06	5975	-0.6	4.98E-08
10889	0.31	7.50E-03	5982	-0.4	6.51E-04
10897	-0.64	8.58E-03	5985	-0.5	1.46E-03
10902	-0.66	1.12E-07	5986	-0.7	1.10E-09
10913	0.56	1.38E-06	5989	-0.3	1.55E-03
10917	0.88	4.81E-08	5992	0.5	2.73E-07
10923	1.17	3.48E-09	5998	0.3	7.63E-03
10924	-0.68	5.93E-09	6013	1.1	1.33E-05
10926	1.30	1.10E-06	6015	0.5	1.54E-05
10940	0.53	2.15E-06	6016	0.9	1.18E-12
10943	0.73	3.44E-04	6025	1.1	1.26E-04
10948	0.36	4.23E-03	6031	-0.6	2.29E-07
10965	-0.71	1.10E-09	6033	0.6	5.32E-04
10977	0.77	1.35E-08	6036	0.9	5.71E-09
10980	-0.65	9.60E-10	6040	-0.5	1.34E-05
10985	1.05	8.26E-20	6041	0.3	9.98E-04
10987	0.97	5.06E-10	6050	0.3	1.97E-03
10992	0.49	2.05E-04	6052	0.5	1.22E-03
10995	0.88	4.90E-10	6064	-0.3	2.90E-03
11000	0.68	1.90E-03	6066	-0.5	6.78E-04
11012	0.44	5.03E-04	6068	-0.8	3.73E-12
11027	0.57	6.39E-03	6071	-0.4	8.78E-04
11029	-0.43	4.34E-04	6075	0.2	6.61E-03

11037	-0.65	2.39E-03	6081	-0.6	1.52E-06
11038	0.51	4.99E-06	6086	0.7	7.66E-08
11047	0.34	2.64E-03	6091	-0.8	1.35E-04
11048	1.18	3.98E-07	6102	0.8	1.01E-09
11058	-0.63	6.78E-04	6103	1.0	3.46E-12
11060	-0.60	5.42E-06	6104	0.3	4.25E-03
11064	0.37	4.95E-03	6105	-0.7	5.18E-10
11078	0.34	3.30E-03	6112	0.9	6.51E-11
11083	0.36	7.43E-03	6117	0.7	1.08E-08
11088	-1.08	3.42E-24	6118	-0.4	2.42E-04
11094	-0.38	9.09E-03	6125	-0.4	2.66E-03
11096	-0.98	2.74E-07	6127	0.6	9.75E-04
11097	0.49	8.01E-05	6134	0.8	1.22E-10
11101	-0.51	1.26E-05	6136	0.5	7.67E-05
11102	-0.77	4.17E-11	6137	0.5	1.12E-04
11103	-0.49	4.36E-05	6141	-0.5	6.01E-06
11107	0.48	1.39E-04	6143	0.5	4.93E-05
11108	0.51	1.62E-05	6148	1.0	6.39E-03
11110	0.69	4.08E-04	6150	0.7	1.65E-03
11116	0.79	1.94E-06	6152	-0.6	5.76E-07
11117	-0.66	6.59E-03	6157	0.6	4.86E-03
11127	0.80	6.76E-11	6158	0.4	6.39E-04
11149	-0.51	2.24E-05	6167	0.7	1.25E-04
11153	0.80	4.29E-11	6168	0.7	1.04E-04
11157	0.69	6.71E-07	6172	-0.3	2.34E-03
11159	-0.57	1.32E-07	6175	-0.4	1.01E-03
11166	0.39	9.22E-04	6177	-0.5	1.12E-05
11172	0.51	2.40E-05	6186	-0.6	1.50E-05
11173	-0.76	6.91E-12	6187	-0.4	1.55E-03
11177	-0.63	8.13E-03	6188	-0.5	3.18E-03
11181	1.39	4.86E-07	6194	-0.5	5.38E-03
11184	-0.47	3.96E-05	6195	0.8	1.34E-09
11186	0.45	1.44E-04	6196	0.4	7.10E-04
11189	-0.30	8.33E-03	6197	-0.7	2.49E-06
11191	0.49	1.56E-05	6198	-0.7	2.58E-06
11192	0.92	1.39E-03	6200	-1.0	3.97E-11
11196	-0.70	9.07E-10	6201	0.6	1.28E-08
11201	0.71	1.13E-04	6204	1.3	2.06E-11
11204	0.63	1.06E-03	6206	-0.6	7.62E-04
11206	0.54	2.41E-05	6214	-0.7	2.38E-08
11210	-0.82	2.06E-05	6219	-0.6	4.50E-07
11213	0.98	6.40E-05	6221	-0.7	2.11E-05

11216	0.49	5.95E-03	6229	0.6	1.90E-09
11224	-0.42	1.42E-03	6230	-0.5	5.18E-06
11233	0.60	6.68E-05	6238	-0.4	1.67E-04
11236	0.75	7.71E-06	6239	0.5	4.35E-05
11239	0.40	8.60E-03	6240	0.5	4.86E-04
11244	-0.45	6.21E-05	6241	-0.4	5.44E-04
11251	-0.66	1.68E-08	6245	-0.8	1.20E-16
11254	0.34	2.44E-04	6246	0.5	1.74E-03
11272	-0.55	2.11E-05	6248	1.0	6.00E-07
11284	0.34	7.72E-03	6249	-1.0	2.48E-20
11290	0.41	1.74E-03	6250	0.6	5.74E-08
11292	-0.76	4.70E-09	6253	1.0	9.58E-20
11294	0.81	2.80E-06	6257	0.8	1.93E-03
11301	-0.35	3.91E-03	6258	0.6	1.80E-04
11302	-0.47	1.94E-04	6261	-0.8	1.14E-18
11306	0.71	2.18E-10	6262	-0.4	1.65E-03
11312	-0.59	9.77E-06	6263	0.6	3.81E-04
11314	0.62	2.43E-07	6266	0.8	1.47E-05
11321	0.83	3.06E-10	6267	1.3	8.98E-11
11323	0.71	4.59E-05	6272	0.4	1.65E-03
11330	0.39	9.75E-04	6284	-0.4	7.49E-04
11337	-0.77	8.24E-12	6285	-0.3	2.96E-03
11340	-0.72	2.00E-11	6292	1.0	1.54E-05
11343	-0.56	1.73E-06	6294	0.6	2.46E-07
11344	-0.56	1.71E-06	6297	-0.4	1.13E-03
11348	1.12	1.66E-07	6303	-0.5	4.45E-06
11355	0.77	3.46E-06	6304	-0.5	1.45E-06
11359	0.47	1.02E-04	6305	-0.5	1.84E-03
11360	-0.54	1.81E-04	6310	-1.1	1.65E-20
11362	1.00	1.81E-04	6315	-0.4	1.61E-03
11363	0.34	3.59E-03	6318	0.4	3.75E-04
11374	0.60	2.39E-07	6321	-0.4	2.18E-03
11382	0.91	1.18E-11	6328	0.4	2.31E-03
11384	0.56	1.61E-06	6330	0.9	8.29E-11
11386	1.50	5.54E-08	6333	-0.4	2.91E-03
11396	-0.74	2.76E-11	6337	0.7	5.83E-09
11408	0.72	2.96E-07	6340	0.7	4.19E-05
11415	1.89	8.66E-11	6343	-0.3	8.09E-03
11425	0.50	5.52E-05	6345	-0.5	4.72E-06
11427	0.45	3.21E-03	6351	0.6	4.80E-07
11440	0.69	8.38E-04	6352	1.4	3.05E-07
11444	-0.57	9.70E-06	6356	-0.5	4.80E-05

11450	0.46	3.79E-04	6359	0.7	3.41E-06
11462	-0.54	5.07E-04	6361	-0.5	5.20E-05
11471	-0.60	1.28E-07	6365	0.8	9.90E-13
11475	-0.55	4.49E-06	6369	-0.3	7.34E-03
11492	0.46	1.73E-04	6373	-0.8	2.21E-11
11495	-0.41	1.38E-04	6376	-0.4	1.96E-04
11497	-0.97	1.27E-15	6381	0.8	5.53E-12
11499	-0.36	3.98E-03	6385	0.3	4.60E-03
11501	-0.40	6.68E-04	6388	0.6	2.02E-04
11520	0.88	1.10E-04	6394	-0.4	3.18E-04
11547	-0.44	4.24E-04	6398	1.2	5.05E-11
11548	-0.56	1.05E-05	6402	0.6	1.06E-03
11549	0.77	3.79E-06	6408	-0.4	2.40E-04
11553	-0.34	1.36E-03	6411	0.6	1.40E-06
11556	-0.87	2.81E-13	6414	-0.4	3.69E-03
11560	0.37	2.07E-03	6415	0.8	4.15E-11
11582	-0.26	8.86E-03	6416	-0.4	1.86E-04
11588	-0.36	5.13E-03	6417	-0.5	1.59E-05
11594	-0.66	2.29E-08	6420	0.6	9.54E-08
11602	-0.45	9.21E-04	6434	-0.5	1.36E-06
11605	0.79	3.12E-10	6436	-0.6	2.43E-07
11613	-0.34	2.34E-03	6438	-0.4	5.04E-04
11618	-0.72	1.23E-09	6440	-0.5	3.53E-06
11619	-0.35	3.17E-03	6442	0.4	6.99E-03
11622	-0.37	2.10E-03	6447	-0.6	1.89E-04
11623	-0.56	3.24E-06	6451	0.4	2.25E-03
11628	0.31	9.87E-03	6452	0.7	1.55E-06
11631	-0.44	5.92E-05	6455	-0.4	1.16E-03
11632	-0.35	8.07E-03	6461	1.1	1.32E-12
11641	-0.43	5.31E-04	6464	0.4	3.96E-03
11647	1.42	4.96E-10	6468	0.7	9.37E-05
11649	0.67	2.04E-08	6473	0.5	8.87E-04
11652	0.73	5.46E-04	6476	0.8	2.69E-04
11680	0.40	8.13E-04	6477	-0.6	7.31E-06
11684	-0.61	8.79E-06	6485	0.6	3.04E-04
11692	0.78	3.14E-05	6486	-0.5	2.42E-05
11701	0.94	6.98E-12	6487	-0.4	3.33E-04
11719	0.97	7.27E-13	6498	0.6	5.35E-07
11726	-0.32	3.80E-03	6505	0.7	2.94E-07
11728	0.61	8.53E-05	6509	0.5	2.68E-05
11732	-0.35	9.17E-03	6523	0.8	1.82E-15
11742	-0.66	1.64E-03	6528	-0.6	1.74E-05
11744	0.63	5.50E-06	6529	0.8	1.88E-04

11756	-0.59	2.24E-07	6530	0.5	1.94E-05
11757	0.80	1.14E-07	6531	-0.9	1.69E-05
11758	0.55	3.32E-03	6532	0.6	1.59E-03
11767	0.76	1.59E-04	6535	0.3	3.02E-03
11771	-0.46	3.57E-05	6540	0.9	2.88E-11
11785	0.32	9.89E-03	6544	-0.6	1.62E-08
11788	1.09	3.24E-05	6548	0.5	1.67E-05
11818	0.63	2.60E-04	6549	0.5	1.68E-04
11825	0.68	2.71E-09	6550	0.6	5.18E-08
11833	0.63	2.69E-04	6551	0.9	1.68E-04
11839	0.43	3.35E-03	6555	-0.3	3.70E-03
11847	-0.44	6.63E-05	6561	0.8	9.95E-03
11848	-0.64	2.90E-03	6565	-0.4	2.24E-04
11856	-0.48	5.59E-05	6566	0.8	1.07E-04
11862	-0.46	6.87E-03	6568	0.5	2.43E-06
11863	0.31	6.19E-03	6571	1.1	1.10E-06
11866	0.61	1.74E-07	6576	-0.8	1.17E-04
11875	0.79	1.42E-04	6580	0.5	5.52E-04
11887	0.38	1.34E-03	6582	-0.5	1.52E-06
11888	1.14	3.66E-07	6583	0.3	5.30E-03
11890	0.72	7.48E-10	6600	-0.5	1.68E-04
11895	-0.54	3.85E-04	6601	0.6	1.06E-04
11896	0.48	2.55E-04	6607	0.4	1.80E-03
11898	0.70	1.58E-08	6615	-0.5	2.65E-05
11900	1.37	1.39E-12	6619	0.4	3.77E-04
11901	-0.40	5.51E-04	6621	0.4	4.65E-03
11902	1.18	1.33E-04	6626	0.5	3.30E-04
11903	-0.49	1.97E-03	6633	0.4	2.98E-03
11908	-0.60	1.02E-07	6634	-0.4	6.69E-04
11931	-0.57	5.90E-07	6635	0.6	7.11E-03
11936	0.30	8.43E-03	6639	-0.7	3.22E-09
11940	0.79	3.75E-10	6640	0.7	7.51E-06
11947	0.55	3.25E-06	6643	-0.6	1.41E-07
11959	-0.59	1.40E-04	6647	-0.3	8.48E-03
11961	0.56	2.66E-06	6648	1.0	4.63E-04
11963	-0.49	1.58E-05	6659	-0.9	1.05E-14
11976	0.48	8.39E-03	6660	1.0	1.54E-12
11977	0.44	1.45E-04	6663	0.8	1.98E-03
11998	-0.59	1.02E-03	6668	-0.6	1.46E-06
12000	1.07	2.01E-18	6669	-0.6	1.61E-06
12009	0.34	2.66E-03	6671	0.7	2.13E-09
12011	0.47	1.69E-03	6675	0.6	1.94E-04

12012	0.96	9.26E-06	6676	0.8	1.51E-07
12013	0.38	9.10E-04	6678	-0.7	1.19E-05
12015	-0.40	3.13E-03	6681	-0.7	8.71E-09
12019	0.43	5.42E-04	6683	0.5	1.32E-04
12022	1.42	3.43E-10	6686	0.4	4.95E-04
12032	-1.07	1.54E-15	6690	1.2	1.85E-09
12039	-0.36	2.68E-03	6693	1.0	5.55E-03
12045	1.07	3.14E-04	6694	1.0	5.20E-03
12059	0.68	3.80E-04	6695	1.0	8.70E-03
12063	-0.54	9.36E-05	6696	-1.1	8.50E-04
12064	-0.54	7.02E-06	6697	-0.6	1.40E-07
12065	0.97	8.55E-06	6703	0.4	5.27E-03
12073	0.84	7.04E-08	6706	0.5	1.68E-04
12076	-0.37	2.10E-03	6708	0.6	3.59E-05
12091	-0.59	1.04E-03	6709	-0.5	5.33E-05
12110	1.14	1.19E-04	6711	0.9	1.07E-04
12118	1.09	3.44E-08	6712	-0.4	5.45E-03
12153	0.39	7.16E-03	6714	0.5	5.85E-06
12154	0.41	4.44E-04	6718	0.9	1.25E-05
12162	0.53	2.85E-06	6721	-0.6	5.26E-03
12166	1.07	3.56E-09	6722	0.9	1.42E-09
12168	-0.44	9.19E-05	6724	-0.8	2.25E-09
12170	0.75	6.92E-06	6727	-0.7	8.71E-05
12174	1.14	2.71E-24	6735	-0.7	4.79E-07
12175	-0.53	5.26E-06	6738	0.5	6.06E-05
12177	-0.75	2.89E-07	6741	-0.5	7.66E-03
12186	-0.66	2.05E-08	6742	-0.7	1.55E-05
12187	0.34	4.28E-03	6748	-0.3	6.81E-03
12190	0.53	3.14E-05	6749	1.1	4.33E-08
12194	0.70	2.48E-04	6751	0.7	2.10E-05
12200	-0.42	1.23E-04	6755	-0.6	1.24E-06
12205	-0.59	9.58E-04	6756	-0.5	1.44E-03
12207	0.64	1.45E-03	6757	1.0	4.70E-09
12208	-0.51	9.84E-06	6760	0.6	3.05E-06
12215	0.97	4.78E-07	6764	-0.5	7.91E-04
12219	0.44	1.39E-04	6766	0.3	4.59E-03
12228	0.78	3.59E-05	6774	0.6	5.27E-04
12230	-0.61	5.14E-05	6775	-0.6	2.88E-03
12232	-0.42	1.87E-04	6776	-0.8	1.86E-11
12233	0.41	3.81E-03	6780	1.0	1.52E-15
12235	0.61	9.18E-04	6783	0.4	4.43E-04
12241	0.85	1.42E-04	6784	-0.4	1.28E-03

12245	0.65	8.74E-08	6789	0.7	8.05E-04
12250	0.44	1.42E-03	6798	-0.6	1.06E-03
12275	-0.79	3.17E-10	6799	-0.5	7.79E-07
12281	0.94	2.63E-03	6808	0.7	2.34E-05
12284	-0.71	3.36E-09	6817	1.2	3.14E-05
12286	-0.68	1.58E-05	6818	1.0	6.45E-18
12287	0.62	1.19E-03	6819	1.4	1.09E-05
12288	-0.56	5.00E-06	6820	1.0	1.62E-06
12291	-0.94	1.81E-18	6833	0.6	2.14E-06
12292	-0.71	9.12E-10	2044	0.8	8.53E-09
12293	1.03	1.96E-08	2046	0.4	1.93E-03
12294	0.70	2.47E-04	2048	-0.6	1.07E-06
12304	0.60	1.77E-06	2049	-0.4	1.74E-03
12305	-0.42	1.70E-04	2056	0.7	1.09E-09
12310	-1.05	4.17E-07	2057	-0.4	7.67E-04
12317	-0.56	6.35E-07	2059	-0.5	5.57E-05
12322	-0.46	3.59E-06	2061	0.4	3.55E-03
12327	0.67	2.55E-06	2068	-0.5	1.70E-03
12336	-0.59	2.08E-07	2072	0.6	3.52E-03
12343	1.06	6.02E-05	2074	0.4	5.27E-03
12344	-0.69	1.47E-09	2075	0.8	6.64E-12
12353	-0.34	4.93E-03	2077	-0.8	1.03E-15
12356	0.95	4.31E-12	2092	0.5	5.90E-03
12358	1.02	2.17E-17	2093	0.7	9.43E-15
12365	0.38	9.33E-04	2094	0.9	1.81E-13
12368	-0.48	6.59E-06	2096	0.3	8.10E-03
12376	-0.63	4.93E-07	2101	0.4	2.68E-03
12381	0.57	7.36E-04	2105	-0.6	6.57E-05
12393	-0.70	1.17E-09	2107	-0.5	6.82E-05
12394	-0.57	2.56E-06	2110	-0.5	1.42E-07
12409	-0.59	2.61E-07	2116	1.0	5.32E-04
12433	0.36	1.25E-03	2118	-0.3	7.64E-03
12438	-0.74	2.11E-06	2123	-0.5	2.98E-04
12454	-0.41	5.29E-04	2126	-0.5	9.27E-06
12457	0.66	1.21E-05	2128	0.6	6.40E-06
12458	-0.58	2.96E-07	2132	0.9	3.02E-03
12462	-0.65	9.86E-09	2137	-0.4	1.65E-05
12463	0.35	2.43E-03	2138	-0.5	5.51E-05
12465	1.56	3.19E-08	2145	0.5	7.18E-06
12466	0.64	2.14E-05	2163	0.9	1.93E-06
12469	0.95	3.72E-08	2164	-0.6	4.31E-04
12471	0.49	9.83E-04	2165	-0.6	7.24E-04
12477	0.77	3.90E-06	2171	-0.4	1.22E-03

12482	0.88	7.93E-07	2172	-0.5	5.49E-04
12486	-0.88	1.02E-05	2177	-0.5	1.95E-05
12489	0.48	5.93E-03	2178	-0.6	2.89E-04
12491	-0.59	1.59E-07	2185	-0.5	2.03E-04
12493	0.31	8.29E-03	2187	0.9	2.00E-05
12496	-0.46	2.70E-03	2195	0.5	2.83E-04
12498	-0.70	3.33E-09	2200	0.8	4.00E-04
12509	0.78	2.81E-05	2203	0.7	1.58E-05
12510	0.55	6.60E-04	2210	0.5	4.37E-04
12516	-0.56	2.75E-03	2215	-0.4	4.64E-03
12518	-0.46	2.55E-05	2217	-0.5	1.87E-03
12519	0.66	1.30E-06	2218	-0.3	9.68E-03
12521	-0.44	9.03E-05	2219	0.3	6.49E-03
12522	0.31	9.14E-03	2224	-0.7	1.05E-09
12524	-0.49	5.27E-06	2227	0.7	4.79E-06
12529	-0.51	1.32E-05	2228	0.8	1.54E-04
12542	0.49	1.00E-04	2229	0.7	7.41E-05
12545	0.87	9.29E-03	2231	-0.7	5.76E-08
12546	0.31	8.29E-03	2232	0.7	4.72E-05
12547	0.40	7.98E-04	2233	0.6	1.62E-03
12549	-0.97	5.56E-10	2245	0.5	1.60E-03
12557	0.69	1.41E-06	2250	0.8	1.03E-09
12563	0.39	8.85E-04	2251	0.4	7.33E-03
12565	-0.75	4.20E-06	2261	0.7	2.10E-08
12577	0.62	7.64E-07	2271	-0.5	7.26E-05
12584	0.61	4.69E-05	2275	0.8	1.72E-12
12590	1.56	3.08E-08	2284	0.5	5.79E-05
12591	0.67	3.53E-07	2285	1.1	1.42E-19
12597	0.81	3.26E-11	2288	0.3	7.58E-03
12598	0.65	5.18E-05	2293	-0.5	1.59E-06
12606	0.38	5.67E-03	2294	-0.5	2.11E-06
12613	0.94	2.05E-11	2300	-1.0	2.07E-22
12614	0.38	9.11E-03	2303	-0.8	2.53E-10
12623	0.45	4.88E-04	2304	-0.7	4.58E-08
12625	-0.49	1.72E-05	2314	-0.4	1.11E-05
12627	0.57	7.70E-03	2315	-0.8	1.37E-11
12630	-0.68	1.31E-06	2316	-0.6	1.42E-06
12636	0.38	9.48E-03	2317	-0.5	1.13E-03
12644	0.94	2.33E-12	2323	-0.7	1.58E-12
12652	0.77	1.42E-04	2324	0.7	2.28E-06
12655	0.38	1.11E-03	2325	0.7	1.10E-08
12656	1.22	8.68E-17	2328	-0.6	4.48E-07

12657	-0.63	1.05E-06	2329	0.6	2.61E-05
12665	-0.40	4.16E-03	2330	0.4	1.36E-03
12668	0.94	1.47E-11	2335	1.0	1.07E-12
12673	0.69	2.23E-08	2338	-0.5	2.79E-03
12674	-0.68	8.39E-09	2354	1.4	3.88E-07
12675	0.70	2.18E-06	2357	-0.4	4.41E-03
12676	0.54	4.60E-05	2364	0.5	4.86E-05
12682	-0.57	2.26E-04	2369	0.7	3.95E-10
12683	0.61	1.14E-06	2371	0.8	1.32E-06
12684	-0.47	2.02E-03	2373	1.2	2.79E-09
12691	-0.33	8.10E-03	2389	0.5	5.65E-05
12692	-0.40	8.29E-03	2390	0.5	9.32E-04
12715	0.55	8.43E-03	2393	0.5	9.34E-05
12725	1.17	4.32E-14	2394	0.5	3.10E-05
12728	0.49	6.16E-03	2400	-0.5	2.22E-04
12732	-0.38	1.65E-03	2401	0.3	9.36E-03
12740	0.48	1.38E-04	2406	-0.7	3.86E-10
12742	0.70	1.76E-06	2407	-1.0	8.08E-05
12754	0.51	2.92E-03	2408	-0.3	3.51E-03
12756	0.44	4.70E-03	2413	-0.5	7.89E-06
12794	0.65	3.15E-08	2414	-0.5	1.78E-05
12795	-0.56	6.07E-07	2422	0.5	4.26E-05
12798	0.56	1.16E-06	2424	0.9	6.84E-05
12799	-0.77	2.70E-10	2427	0.6	1.71E-06
12814	0.76	3.71E-04	2430	0.6	3.69E-03
12816	0.89	8.63E-07	2432	-0.6	1.60E-06
12821	0.55	4.03E-03	2442	-1.1	1.18E-07
12826	-0.63	3.99E-04	2443	0.7	3.41E-04
12828	0.46	8.51E-04	2446	-0.8	3.31E-10
12833	0.61	3.19E-05	2450	0.4	7.46E-03
12840	1.02	3.05E-04	2452	-0.6	4.29E-04
12847	0.87	4.07E-04	2453	0.4	7.17E-04
12850	-0.55	4.30E-07	2461	0.8	4.06E-04
12852	-0.42	4.86E-04	2465	1.0	5.49E-17
12865	-0.99	8.90E-04	2466	0.7	1.92E-09
12867	0.45	4.86E-03	2470	1.2	8.29E-11
12868	0.50	6.60E-05	2471	-0.8	1.87E-13
12871	0.58	5.00E-03	2472	0.5	2.54E-04
12876	0.60	3.05E-06	2476	-0.5	3.76E-05
12881	-0.31	8.83E-03	2482	0.3	4.45E-04
12885	-0.65	2.99E-08	2483	-0.4	2.37E-03
12887	-0.41	2.49E-03	2484	-0.6	5.48E-08

12888	0.51	1.78E-04	2485	-0.6	2.02E-09
12889	-0.84	5.98E-12	2486	-0.5	1.00E-04
12893	0.37	4.31E-03	2489	-0.5	3.90E-04
12902	0.35	9.91E-03	2491	-1.1	1.46E-20
12905	0.82	9.16E-08	2492	0.8	5.38E-04
12917	-0.57	1.60E-06	2495	-0.4	1.64E-04
12927	1.00	4.90E-18	2497	-0.3	3.88E-03
12933	0.65	1.60E-03	2501	0.4	5.27E-07
12938	1.06	5.76E-05	2508	0.4	4.43E-03
12940	-0.53	1.39E-06	2511	-0.6	6.62E-05
12948	0.67	8.04E-04	2514	0.5	4.47E-05
12949	0.60	8.72E-05	2516	0.5	4.55E-03
12950	-0.58	1.54E-06	2518	-0.4	1.79E-03
12952	-0.46	8.13E-05	2521	-0.5	2.68E-04
12969	-0.25	3.13E-03	2522	0.4	1.38E-04
12977	-0.55	2.12E-04	2523	0.5	8.65E-05
12979	0.36	6.75E-03	2527	-0.3	3.01E-03
12989	0.35	2.57E-03	2531	0.9	1.10E-03
12993	-0.68	2.00E-09	2532	0.4	7.25E-04
12994	0.62	5.31E-07	2534	-0.5	1.84E-05
13000	0.53	2.85E-06	2535	-0.7	8.90E-07
13001	0.51	1.36E-04	2540	-0.3	4.89E-03
13003	0.58	3.68E-04	2550	0.9	5.57E-05
13009	0.84	1.10E-09	2553	-0.4	3.90E-04
13010	-0.29	9.31E-03	2566	-0.4	8.38E-03
13018	0.45	1.91E-03	2571	0.7	4.56E-06
13025	-0.52	3.39E-04	2575	-0.8	6.57E-05
13031	0.66	9.52E-03	2577	0.8	3.23E-03
13043	-0.46	6.92E-05	2578	1.1	3.06E-08
13051	-0.87	3.40E-16	2580	-0.5	8.39E-05
13063	0.53	1.35E-03	2587	0.6	1.52E-05
13072	0.82	3.60E-03	2589	-0.4	1.71E-03
13075	-0.47	6.13E-05	2590	-1.2	9.71E-07
13085	0.80	1.19E-03	2591	0.5	3.80E-05
13088	-0.35	1.20E-03	2595	-0.8	1.49E-12
13089	0.68	4.96E-05	2597	-0.7	2.37E-03
13094	0.53	2.62E-05	2599	0.4	3.35E-03
13108	-0.58	2.57E-06	2604	0.9	8.80E-10
13109	-0.61	1.61E-06	2608	-0.7	5.30E-10
13111	-0.65	8.77E-09	2611	0.8	3.19E-05
13124	0.40	6.70E-06	2612	0.6	1.70E-06
13126	0.49	7.26E-05	2613	0.7	1.37E-06
13128	0.90	1.51E-04	2617	0.6	2.26E-03

13131	-0.45	8.45E-05	2620	-0.6	6.25E-09
13132	-0.46	7.27E-05	2630	-0.4	3.01E-03
13136	-0.50	2.94E-03	2633	1.0	1.53E-03
13139	-0.74	6.01E-09	2639	-0.4	1.04E-03
13142	0.85	1.24E-05	2640	-0.5	7.88E-04
13143	-0.94	4.35E-13	2643	0.5	1.39E-03
13149	-0.74	4.76E-10	2645	0.5	7.73E-03
13151	0.91	9.46E-06	2647	-0.5	5.85E-05
13158	0.39	3.97E-03	2649	0.5	6.86E-05
13161	0.84	2.26E-13	2650	-0.6	1.17E-07
13175	-0.35	2.82E-03	2657	-0.5	3.98E-04
13184	0.90	1.45E-08	2668	1.1	1.33E-18
13195	0.35	3.83E-03	2670	1.1	2.14E-08
13200	-0.38	7.89E-03	2673	-0.6	1.94E-04
13210	-0.33	4.57E-03	2686	-0.4	8.33E-04
13211	0.83	5.61E-04	2687	-0.5	1.53E-04
13214	-0.37	1.32E-03	2688	0.9	8.74E-12
13230	0.42	3.00E-04	2693	-0.5	4.59E-05
13238	0.41	6.41E-04	2696	-0.6	8.07E-07
13258	1.06	1.34E-07	2701	-0.4	7.25E-03
13264	0.56	6.60E-07	2705	0.4	1.77E-03
13276	-0.83	1.23E-12	2706	-0.5	3.55E-04
13302	-0.50	1.65E-05	2707	0.7	1.77E-07
13305	1.02	3.71E-11	2712	0.3	6.82E-03
13306	0.83	2.65E-04	2714	1.5	1.07E-07
9714	-0.55	1.86E-06	2721	-0.5	3.40E-03
9715	0.81	1.78E-12	2722	0.5	3.83E-05
9716	-0.44	1.14E-04	2725	0.4	7.36E-03
9719	0.50	2.18E-05	2726	-0.5	7.87E-03
9720	1.17	6.31E-08	2727	-0.5	9.30E-05
9725	0.86	1.73E-12	2730	1.0	9.30E-05
9730	0.65	1.37E-05	2731	0.9	3.77E-04
9732	0.89	2.66E-05	2735	-0.7	2.88E-10
9733	-0.44	1.31E-04	2740	-0.4	1.76E-03
9736	0.58	7.92E-07	2742	0.7	6.90E-04
9738	0.48	4.15E-04	2743	-0.6	5.70E-06
9746	-0.79	2.58E-08	2746	-0.3	7.29E-05
9747	1.33	7.15E-07	2752	0.8	1.12E-04
9763	-0.37	5.95E-03	2754	-0.9	4.42E-17
9766	-1.00	1.32E-05	2756	0.8	1.93E-12
9767	1.62	2.34E-05	2760	0.8	2.07E-11
9770	-0.46	3.92E-04	2761	0.8	6.43E-12

9771	0.38	2.22E-03	2772	0.7	1.77E-08
9774	0.46	2.30E-04	2773	0.9	1.37E-06
9780	0.68	6.55E-05	2774	-0.7	4.49E-05
9781	0.40	2.24E-03	2781	-0.8	2.46E-10
9782	0.93	3.99E-15	2782	-0.5	1.01E-08
9789	-0.60	1.59E-05	2786	-0.5	4.30E-06
9794	0.43	3.93E-04	2789	-0.6	1.20E-04
9809	-0.48	3.68E-04	2790	-0.5	1.78E-04
9810	-0.44	3.04E-04	2791	-0.4	9.32E-04
9815	-0.69	4.36E-09	2795	-0.4	3.85E-04
9817	-0.27	1.67E-03	2799	-0.4	2.77E-03
9818	-0.28	7.80E-04	2815	-0.4	1.81E-03
9819	0.73	1.48E-09	2816	1.3	3.08E-09
9822	0.38	5.69E-03	2817	0.6	2.53E-04
9835	-0.35	9.64E-03	2820	0.6	9.67E-04
9838	0.31	8.75E-03	2824	-0.4	4.95E-04
9844	-0.60	1.61E-03	2828	-0.5	3.34E-05
9847	-0.39	7.06E-04	2829	1.2	1.43E-13
9851	1.28	2.22E-07	2830	1.2	4.07E-14
9858	0.62	3.02E-08	2832	-0.6	7.96E-07
9859	0.79	5.31E-11	2838	0.9	1.00E-09
9860	1.10	1.80E-12	2843	-0.7	2.50E-09
9867	0.70	2.11E-07	2844	1.1	2.99E-04
9868	0.87	1.20E-09	2845	1.0	1.10E-03
9870	-0.61	3.70E-07	2848	0.7	1.16E-09
9874	0.81	1.32E-10	2850	0.9	1.31E-05
9876	-0.63	6.85E-09	2860	-0.8	8.21E-04
9886	-0.37	9.39E-03	2874	0.8	9.36E-09
9891	-0.67	1.39E-08	2877	-0.8	7.96E-04
9894	0.34	3.27E-03	2878	0.6	1.14E-07
9900	0.80	1.05E-03	2880	0.9	2.68E-03
9907	0.53	9.72E-03	2882	-0.4	8.24E-03
9908	-0.35	1.87E-03	2888	0.8	1.88E-10
9910	-0.39	3.03E-03	2889	-0.5	1.16E-04
9913	0.52	5.95E-05	2890	-0.7	3.08E-14
9914	0.79	2.13E-03	2891	-0.4	2.18E-04
9917	0.65	1.11E-04	2896	1.1	5.85E-11
9921	-0.53	3.41E-04	2897	0.7	2.74E-03
9922	0.45	8.32E-04	2898	0.7	1.07E-03
9925	-0.35	2.47E-03	2900	-0.9	6.09E-07
9927	-0.70	1.54E-08	2901	0.7	1.19E-06
9945	0.61	2.46E-07	2907	0.7	6.38E-10

9946	-0.70	1.36E-10	2914	-0.6	5.79E-06
9949	0.62	9.10E-04	2921	0.4	9.00E-04
9951	0.49	2.37E-03	2922	-0.5	2.60E-03
9952	-0.63	1.39E-06	2924	-1.0	2.20E-14
9954	-0.75	3.02E-03	2941	1.1	2.52E-12
14853	0.71	0.05	9259	0.61	7.81E-04
15055	-0.81	0.05	9260	0.62	1.04E-06
15280	0.48	0.05	9265	-0.57	8.99E-03
15341	2.82	0.05	9266	0.52	1.35E-03
15356	-0.58	0.05	9269	0.67	2.32E-07
10187	0.71	6.15E-12	9280	-0.68	9.87E-09
10193	0.35	4.26E-03	9281	1.11	1.79E-18
10194	0.58	7.18E-06	9285	-0.52	9.73E-05
10196	1.14	5.19E-04	9288	0.61	2.29E-07
10198	-0.42	2.29E-04	9289	1.06	4.71E-07
8851	0.59	5.01E-05	9290	0.68	4.45E-08
8854	1.16	3.30E-05	9293	0.38	1.87E-03
8855	0.96	5.72E-14	9294	0.40	1.02E-03
8865	0.59	8.67E-06	9300	-0.42	2.95E-04
8867	-0.60	2.94E-07	9301	-0.42	4.20E-03
8874	0.47	8.84E-05	9302	-0.54	5.19E-04
8888	-0.49	1.81E-05	9306	-0.60	1.42E-05
8893	-0.53	1.81E-06	9311	0.74	2.25E-10
8898	0.83	5.73E-13	9314	-0.64	7.40E-07
8899	0.65	5.87E-08	9315	0.37	3.14E-03
8908	1.08	5.38E-22	9320	0.43	3.21E-04
8909	0.93	2.88E-03	9321	-0.35	3.00E-03
8910	-0.57	4.12E-07	9322	0.40	8.05E-03
8911	-0.56	1.62E-06	9326	0.68	3.22E-05
8914	-0.66	1.02E-06	9327	1.12	3.68E-10
8915	0.69	1.17E-06	9329	0.54	1.58E-06
8916	0.69	1.16E-06	9330	0.57	1.12E-05
8919	0.82	6.53E-10	9341	0.41	4.25E-04
8921	-0.52	5.53E-04	9342	1.06	2.80E-08
8922	1.03	3.20E-20	9347	0.75	8.49E-11
8923	0.43	1.47E-03	9348	0.32	8.00E-05
8924	0.44	1.25E-03	9349	0.53	3.35E-03
8928	0.81	7.52E-11	9352	-0.58	2.95E-06
8938	-0.30	2.07E-03	9353	-0.59	2.65E-06
8946	0.70	8.32E-03	9355	-0.51	4.04E-06
8952	-0.59	3.56E-06	9360	0.54	1.55E-04
8954	-0.58	2.46E-07	9362	-0.37	9.25E-03
8957	-0.57	2.33E-05	9368	-1.20	1.92E-26

8959	0.81	2.29E-06	9371	0.82	1.86E-09
8960	0.67	1.07E-07	9373	-0.83	5.94E-13
8963	0.89	8.69E-06	9376	-0.48	9.96E-04
8966	-0.58	6.67E-05	9378	-0.40	4.91E-04
8970	0.36	1.38E-03	9381	0.49	5.21E-04
8971	-0.27	4.40E-03	9383	0.87	2.71E-14
8981	1.09	1.36E-16	9386	0.35	4.47E-03
8985	1.92	1.22E-07	9388	0.68	1.84E-03
8987	0.34	5.75E-03	9390	0.90	2.05E-05
8988	-0.56	1.79E-03	9394	1.05	2.66E-08
8996	-0.42	1.30E-03	9397	0.62	9.50E-06
8997	-0.66	4.16E-08	9399	0.97	1.84E-04
8999	-0.63	2.42E-05	9402	0.71	5.27E-07
9000	0.50	7.31E-03	9404	0.50	4.54E-05
9003	-0.70	5.53E-09	9406	0.31	1.77E-04
9006	-0.32	8.77E-03	9407	0.72	4.09E-04
9010	0.30	9.79E-03	9408	0.32	6.91E-03
9011	-0.33	4.88E-03	9413	0.88	3.06E-04
9015	0.62	1.48E-03	9421	0.66	4.45E-06
9027	0.67	9.71E-08	9423	0.44	8.04E-04
9030	-0.52	1.22E-05	9424	0.69	1.44E-06
9032	-0.71	4.16E-05	9430	0.35	2.70E-03
9035	-0.42	3.60E-03	9434	0.32	8.78E-03
9040	0.39	1.54E-03	9437	1.57	2.51E-07
9041	0.70	4.22E-08	9443	-0.37	2.68E-03
9043	0.96	1.70E-06	9444	-0.84	1.29E-04
9046	0.94	2.43E-07	9445	0.49	1.93E-03
9049	1.59	2.13E-06	9447	0.75	2.35E-04
9050	0.70	5.17E-06	9448	0.36	1.26E-03
9054	0.51	2.52E-04	9452	0.57	2.83E-03
9055	0.41	6.14E-03	9459	0.68	1.52E-08
9057	0.37	4.27E-04	9463	-0.32	9.69E-03
9063	0.59	1.20E-06	9476	0.42	8.74E-04
9064	0.58	1.23E-06	9478	-0.70	1.22E-05
9065	-0.40	4.87E-03	9483	0.79	1.64E-05
9068	-0.59	5.29E-06	9485	0.54	6.67E-06
9081	0.78	2.85E-12	9486	0.93	5.37E-05
9082	0.40	6.30E-04	9487	0.71	4.39E-03
9084	0.97	5.07E-11	9493	0.39	7.64E-04
9090	-0.53	4.23E-03	9498	0.72	3.14E-09
9093	-0.64	8.69E-07	9502	-0.40	4.58E-04
9094	-0.65	5.93E-06	9506	-0.51	2.52E-03

9095	1.17	5.28E-05	9508	-0.39	7.02E-04
9096	0.55	3.00E-06	9517	0.68	8.44E-07
9101	-0.80	2.88E-12	9529	-0.68	3.41E-09
9103	-0.36	4.57E-03	9530	0.86	1.82E-07
9104	-0.45	5.23E-06	9531	0.81	2.36E-10
9106	0.96	6.28E-05	9538	0.87	1.25E-06
9110	0.83	1.03E-04	9540	0.43	1.76E-03
9122	-0.32	9.07E-03	9541	0.41	3.73E-04
9125	0.96	3.70E-06	9542	1.16	3.18E-05
9127	0.81	2.02E-10	9557	0.70	3.98E-08
9129	1.32	1.14E-32	9558	0.69	7.58E-08
9132	0.50	1.06E-05	9575	-0.50	1.25E-05
9134	1.24	7.46E-05	9582	-0.31	7.47E-03
9136	1.13	6.11E-05	9587	-0.57	1.25E-06
9138	-0.79	5.85E-12	9598	1.06	2.65E-12
9140	-0.56	6.49E-05	9609	-0.59	3.25E-05
9142	-0.52	7.27E-06	9615	0.51	3.25E-05
9146	0.46	8.48E-05	9617	1.11	4.74E-12
9150	-0.38	6.83E-04	9618	-0.75	2.98E-04
9154	0.62	3.13E-03	9627	0.98	1.35E-03
9161	0.62	1.39E-07	9628	1.05	5.34E-07
9165	-0.34	1.93E-05	9633	1.29	1.98E-05
9166	0.81	1.67E-09	9635	-0.47	1.09E-04
9167	-0.34	8.63E-03	9636	1.02	9.85E-09
9173	-0.65	6.96E-09	9645	-0.34	1.59E-03
9178	0.97	9.63E-08	9646	0.61	1.56E-06
9179	0.95	1.03E-07	9647	0.91	4.16E-04
9183	0.43	9.42E-05	9657	-0.45	9.80E-04
9187	0.34	4.09E-04	9660	0.76	2.29E-10
9192	0.80	1.21E-10	9665	0.93	9.10E-08
9194	-0.30	8.60E-03	9670	-0.47	9.23E-05
9196	0.56	1.31E-05	9671	-0.72	7.80E-09
9200	0.54	9.31E-05	9672	0.55	4.07E-06
9201	-0.53	7.38E-05	9676	-0.56	1.33E-06
9208	0.67	6.49E-04	9680	-0.82	6.69E-14
9213	-0.55	8.63E-05	9682	0.56	1.48E-07
9221	-0.54	6.35E-03	9685	0.87	3.01E-06
9222	-0.67	1.01E-03	9688	-0.30	7.59E-03
9224	0.58	3.68E-05	9692	-0.52	5.89E-05
9225	-0.61	1.14E-12	9694	-0.73	4.53E-08
9227	0.38	4.32E-03	9695	0.79	6.37E-04
9228	-0.63	1.14E-08	9697	-0.34	4.25E-03

9232	0.62	9.71E-04
9237	0.55	7.02E-07
9245	-0.56	1.43E-03
9246	-0.35	3.39E-03
9248	-0.90	1.01E-13
9254	-0.45	5.87E-04

9698	-0.43	1.65E-04
9699	0.83	6.06E-10
9700	-0.55	5.88E-06
9701	1.07	9.78E-12
9703	-0.43	1.18E-03
9704	-0.85	5.22E-03
9707	0.44	2.14E-04
9711	0.49	1.39E-07
9712	0.94	9.16E-03
9713	-0.97	3.20E-07

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TABLE 10 - GENETIC MARKERS FOR MILKING SPEED

A	B	C	A	B	C	A	B	C
2	1.90	4.34E-10	2126	1.50	1.41E-09	4238	-0.70	6.23E-03
3	1.00	1.89E-05	2131	-1.40	7.96E-03	4242	0.70	5.53E-03
13	0.90	1.58E-03	2134	1.10	8.34E-07	4244	-1.10	2.46E-04
38	-3.00	1.75E-05	2172	1.40	2.49E-09	4245	-1.40	3.54E-05
46	-1.10	4.39E-04	2176	1.10	1.24E-06	4246	-1.50	1.10E-08
52	-1.20	2.41E-06	2178	1.00	5.19E-05	4248	-2.40	5.04E-03
54	0.90	5.04E-05	2187	-2.10	2.09E-06	4261	-1.00	5.43E-06
63	-1.40	1.32E-08	2197	1.00	3.11E-03	4262	1.00	7.23E-03
66	-1.10	3.09E-06	2200	-1.30	2.36E-03	4265	1.00	2.95E-04
73	1.00	1.18E-04	2203	-1.20	3.98E-03	4272	0.80	3.64E-03
82	1.00	5.82E-04	2215	0.70	8.22E-03	4276	-1.30	1.35E-05
86	1.60	7.57E-07	2222	1.20	1.74E-04	4277	-0.70	6.57E-03
97	-0.90	2.39E-04	2226	-2.50	1.88E-04	4278	-1.50	3.70E-10
99	0.90	8.10E-05	2227	-0.90	4.16E-03	4297	1.20	2.10E-07
101	-0.80	4.71E-04	2228	-1.40	2.38E-04	4298	-0.80	3.06E-03
114	-1.10	1.86E-03	2229	-1.20	2.56E-04	4301	-1.20	1.50E-03
121	-1.10	3.88E-05	2231	1.40	3.29E-08	4313	1.10	5.84E-06
123	0.60	3.58E-03	2232	-1.10	7.95E-04	4314	0.60	6.13E-03
131	0.70	1.66E-03	2239	0.50	5.75E-03	4319	-1.30	2.75E-05
139	1.10	3.22E-06	2248	-0.60	5.90E-04	4333	-1.60	1.67E-04
140	-0.70	3.02E-03	2250	-1.80	2.22E-12	4334	1.50	2.64E-11
148	-1.20	1.74E-03	2257	-0.80	7.97E-03	4335	1.70	1.81E-11
152	1.00	2.23E-04	2260	-0.90	3.22E-03	4336	0.60	8.78E-03
155	0.60	5.46E-03	2261	-1.00	4.39E-04	4337	0.70	3.05E-03
156	-0.70	3.96E-03	2268	-1.40	1.68E-04	4341	-0.80	5.29E-03
168	0.70	1.13E-03	2271	0.60	3.96E-03	4345	1.00	1.32E-05
171	1.10	1.59E-06	2283	-1.10	1.50E-04	4351	-0.90	3.45E-04
174	0.90	1.14E-03	2284	-1.60	5.70E-11	4352	0.70	2.97E-03
176	-1.00	1.28E-05	2288	0.70	1.91E-03	4354	1.00	1.40E-05
180	0.80	8.87E-04	2289	1.20	6.76E-04	4358	1.60	2.37E-04
181	1.60	1.10E-12	2291	-1.40	7.00E-04	4362	-0.90	1.45E-03
186	0.70	4.51E-03	2293	1.10	2.09E-06	4371	0.90	2.38E-03
191	-0.90	4.73E-04	2294	1.10	1.22E-06	4398	-0.80	2.37E-03
192	-1.00	3.94E-03	2295	-1.00	1.36E-03	4399	1.00	7.36E-03
194	0.60	4.83E-03	2300	1.00	1.40E-05	4405	-1.10	6.85E-03
200	-1.10	3.32E-05	2303	0.70	5.42E-03	4420	-0.80	7.50E-03
217	1.70	3.02E-10	2304	1.40	2.34E-09	4422	-0.80	4.34E-03
219	0.80	4.55E-04	2311	0.50	6.75E-03	4425	1.20	7.88E-08
220	-0.80	4.27E-03	2316	0.70	8.64E-03	4430	0.90	3.20E-05
231	-1.90	4.03E-08	2318	-1.00	2.64E-04	4440	-2.00	1.80E-03

238	-0.90	2.24E-03	2323	0.80	6.02E-05	4441	-0.70	1.73E-03
242	0.70	1.04E-03	2325	-1.40	6.15E-08	4445	1.00	1.68E-06
249	-1.00	9.80E-05	2334	-1.00	8.00E-05	4446	-1.20	7.82E-05
256	-1.10	7.54E-04	2335	-1.90	1.48E-09	4453	-0.60	9.46E-03
264	0.90	4.00E-03	2343	1.10	7.64E-07	4464	-1.80	2.93E-03
270	0.70	7.12E-04	2353	1.50	7.13E-10	4471	1.20	6.15E-03
272	-0.70	6.57E-03	2354	-1.90	3.58E-03	4478	-1.20	4.72E-04
273	0.80	1.01E-03	2364	-0.90	6.59E-04	4486	1.60	2.01E-06
274	-0.90	5.44E-03	2373	-1.70	8.27E-05	4487	0.80	2.32E-04
280	0.80	2.93E-03	2383	-1.00	3.08E-04	4489	0.70	1.69E-03
305	0.80	1.98E-04	2389	-0.70	9.70E-03	4491	0.70	3.32E-03
307	1.00	2.14E-05	2393	-0.70	7.84E-03	4492	-2.00	8.64E-06
313	0.70	7.98E-03	2400	1.10	1.38E-07	4499	-1.20	9.31E-05
321	1.20	6.13E-05	2407	1.30	9.24E-03	4501	0.90	1.30E-04
323	-1.20	1.85E-03	2412	0.80	1.97E-03	4503	0.60	6.87E-03
331	-1.00	4.17E-05	2413	0.90	1.14E-04	4505	0.70	5.28E-03
333	0.70	1.22E-03	2414	0.90	9.14E-05	4523	0.70	5.17E-04
336	-0.80	2.07E-03	2423	0.70	7.75E-06	4525	-1.80	1.60E-06
337	1.30	1.41E-10	2424	-1.40	1.63E-03	4528	-1.00	3.76E-03
345	-1.40	1.68E-04	2427	-1.40	4.85E-10	4530	1.20	2.10E-05
347	0.60	7.77E-03	2428	0.90	3.78E-03	4531	0.80	1.20E-03
234								
348	-1.20	1.11E-05	2429	0.90	5.01E-03	4533	-1.10	1.86E-04
354	-1.40	1.18E-04	2432	0.70	6.85E-03	4537	-2.00	4.00E-08
367	-1.00	4.08E-06	2439	0.60	9.23E-03	4542	1.30	2.64E-08
369	1.60	1.43E-11	2442	1.20	3.90E-04	4543	1.70	3.43E-06
373	1.40	5.12E-04	2446	1.00	6.06E-05	4545	0.70	1.23E-03
376	-1.20	5.92E-03	2453	-0.70	6.39E-03	4549	1.30	2.31E-04
377	-2.10	2.48E-03	2456	1.30	3.50E-05	4558	0.80	3.01E-03
378	-0.90	1.55E-04	2465	-1.20	6.03E-08	4559	0.80	3.86E-03
393	1.80	1.74E-14	2466	-0.80	8.56E-04	4562	-1.00	5.18E-05
394	-1.50	8.37E-08	2470	-1.30	3.39E-03	4578	1.10	1.06E-06
395	-0.90	1.24E-04	2471	1.40	1.63E-09	4580	-1.70	1.23E-06
397	0.70	2.64E-03	2472	-1.70	5.02E-08	4581	1.10	9.06E-07
404	1.10	2.33E-05	2473	0.90	7.81E-04	4582	1.40	2.54E-10
408	-1.20	6.48E-04	2476	1.00	1.56E-05	4583	1.70	3.09E-16
410	-1.40	1.20E-08	2484	1.00	2.75E-06	4585	-2.20	3.38E-03
411	-1.40	8.27E-09	2485	1.00	3.69E-06	4586	-0.70	3.74E-03
415	-1.10	1.48E-04	2486	0.70	3.70E-03	4589	0.70	4.24E-03
418	0.90	2.07E-03	2491	1.00	2.80E-06	4596	-1.60	9.71E-06
424	-1.50	4.18E-04	2500	0.80	2.10E-03	4599	0.70	2.26E-03
425	-0.90	3.24E-04	2511	1.00	4.65E-04	4602	1.10	8.15E-07
426	-0.80	2.97E-03	2521	0.80	9.13E-03	4606	-0.70	1.41E-03

437	1.20	4.41E-04	2522	-1.40	2.32E-09	4607	-0.70	1.84E-03
450	0.60	3.47E-03	2523	-1.40	1.64E-09	4608	-0.90	2.07E-03
455	-0.60	6.39E-03	2527	0.60	3.62E-03	4610	0.60	9.00E-03
458	-0.80	1.74E-03	2532	-1.30	2.67E-06	4621	-0.90	1.52E-03
467	-0.80	1.45E-03	2535	1.00	9.71E-04	4622	-0.80	1.17E-03
474	0.80	5.02E-04	2543	1.20	5.78E-06	4629	1.20	3.14E-08
476	0.80	2.83E-03	2550	-1.20	5.39E-03	4634	-1.50	1.95E-05
502	-0.80	4.65E-04	2553	1.00	1.52E-05	4647	0.70	7.56E-03
507	-1.90	2.64E-11	2568	0.90	1.90E-04	4651	0.80	3.59E-03
515	-0.80	7.94E-03	2577	-1.10	5.87E-03	4654	-1.60	1.87E-06
523	-1.30	1.36E-03	2578	-1.20	6.15E-03	4664	1.10	2.06E-06
532	0.90	4.77E-05	2580	0.90	2.24E-03	4670	-1.50	1.48E-05
538	-0.60	6.08E-03	2582	-0.70	1.80E-03	4671	-1.10	9.86E-05
539	-0.70	5.35E-03	2595	1.20	1.32E-08	4679	-1.60	6.13E-10
540	-1.30	2.04E-08	2599	-1.10	5.53E-05	4687	0.90	1.09E-04
541	-0.80	5.46E-03	2604	-2.10	7.50E-09	4690	-2.30	7.73E-09
543	0.90	1.69E-03	2608	1.50	8.82E-11	4694	-1.20	3.00E-05
545	-1.40	6.59E-03	2611	-1.00	3.04E-03	4696	-1.50	3.07E-08
546	-1.30	2.67E-07	2613	-1.10	1.47E-04	4708	-1.20	2.53E-03
559	0.70	2.10E-03	2615	0.70	6.59E-03	4726	1.60	2.93E-07
561	-1.30	3.55E-04	2619	0.90	1.05E-03	4734	-1.30	9.58E-04
569	-0.80	4.67E-04	2620	0.80	8.20E-05	4737	-1.10	5.18E-05
571	0.60	5.82E-03	2622	0.60	7.94E-03	4738	-1.00	1.89E-04
592	0.70	4.32E-03	2624	1.40	1.43E-09	4739	-0.90	3.24E-04
595	-2.10	3.67E-09	2630	1.10	6.04E-03	4740	-0.90	3.28E-04
620	0.60	9.97E-03	2633	-1.70	3.64E-04	4752	0.70	3.30E-03
628	0.80	8.62E-03	2640	1.50	1.52E-05	4756	1.10	4.56E-08
629	1.50	1.76E-10	2642	0.90	1.95E-04	4757	-0.80	2.48E-03
644	0.80	1.84E-04	2647	0.80	4.89E-04	4760	-1.30	5.76E-05
645	-0.70	8.10E-03	2664	0.80	4.90E-04	4761	-1.30	4.73E-05
647	0.70	4.60E-03	2665	0.80	2.24E-04	4762	0.70	1.80E-03
649	1.50	1.80E-10	2667	1.50	1.62E-07	4770	-0.80	3.21E-04
654	0.90	1.43E-04	2668	-1.10	4.00E-06	4771	-1.80	1.14E-04
664	-1.00	8.66E-06	2686	1.60	8.43E-11	4775	-0.80	5.48E-03
667	-0.70	2.17E-03	2688	-0.80	3.89E-04	4780	0.80	4.07E-04
672	0.90	2.51E-05	2693	1.40	8.34E-10	4781	1.60	5.89E-12
681	0.90	1.71E-04	2697	1.70	3.07E-08	4786	-1.10	2.26E-04
688	1.10	1.10E-06	2698	0.80	2.59E-04	4807	1.20	6.28E-06
690	-1.10	2.35E-04	2705	-1.00	4.73E-05	4808	-1.10	1.76E-05
696	-1.00	1.85E-05	2706	-0.90	2.39E-03	4811	-0.70	1.71E-03
718	-1.40	3.85E-07	2714	-2.10	2.46E-03	4814	1.30	9.79E-08
724	-0.80	2.86E-03	2721	0.80	3.37E-03	4817	-0.80	7.02E-03
235								

730	-2.10	9.19E-09	2726	0.90	3.33E-03	4821	-1.20	6.37E-03
736	1.10	1.52E-07	2727	0.70	2.80E-03	4831	0.80	1.47E-03
741	1.40	5.42E-03	2735	1.10	4.05E-06	4839	-0.60	2.42E-03
742	1.40	5.21E-03	2736	1.20	6.68E-07	4848	0.90	9.91E-04
744	0.60	7.93E-03	2738	-0.70	3.86E-03	4853	-0.70	2.36E-03
750	1.30	9.41E-03	2739	-0.70	4.68E-03	4856	0.60	4.07E-03
761	1.00	5.32E-03	2740	1.20	2.96E-08	4858	-1.30	7.32E-07
762	0.90	6.91E-03	2746	0.80	1.39E-06	4862	0.60	7.50E-03
774	-1.30	4.68E-03	2752	-1.40	1.66E-03	4863	-1.40	3.63E-09
776	0.90	4.77E-04	2754	1.60	5.37E-14	4871	-0.90	7.07E-04
778	0.80	7.84E-03	2756	-1.40	5.16E-09	4873	0.70	2.84E-03
779	-1.20	3.26E-04	2758	0.70	2.27E-03	4879	-1.10	1.05E-05
793	0.90	2.46E-03	2760	-1.30	4.88E-08	4893	1.60	4.41E-14
794	0.70	6.85E-03	2761	-1.30	3.29E-08	4894	-1.00	2.55E-04
795	1.20	2.83E-07	2770	-1.10	5.43E-04	4898	0.60	5.39E-04
801	-1.30	2.46E-03	2773	-1.10	1.13E-03	4899	0.80	6.69E-04
812	1.10	2.12E-05	2774	1.00	3.19E-03	4900	-0.70	7.13E-03
818	1.30	2.85E-03	2778	0.90	3.40E-05	4904	-1.70	1.11E-10
829	0.90	1.33E-03	2779	-0.80	5.55E-04	4911	1.20	3.89E-06
834	1.10	2.87E-04	2781	1.70	3.82E-14	4914	-0.80	3.59E-03
837	-1.00	3.49E-03	2782	0.60	1.99E-04	4920	1.50	1.80E-10
840	-1.30	2.10E-04	2788	0.90	8.28E-03	4924	0.80	6.83E-04
846	-1.30	9.17E-04	2792	-0.90	1.74E-04	4934	0.80	6.40E-04
847	0.90	1.09E-04	2799	0.70	1.75E-03	4936	-2.00	3.01E-07
850	-0.60	8.54E-03	2816	-2.20	2.04E-03	4938	0.80	5.25E-04
858	-1.10	3.97E-05	2820	-1.50	1.48E-04	4958	1.00	1.01E-05
860	1.40	1.14E-09	2836	0.80	1.49E-03	4960	1.60	6.48E-05
864	0.60	7.62E-03	2838	-1.00	6.15E-04	4968	0.80	1.94E-03
865	1.00	1.39E-05	2843	1.20	2.83E-08	4970	-1.30	1.43E-03
868	-1.40	3.04E-05	2848	-0.90	1.40E-04	4982	-1.10	1.28E-05
869	0.90	4.69E-05	2850	-1.50	2.09E-03	4991	-0.70	2.54E-03
870	1.40	9.90E-11	2857	-0.90	7.65E-03	5004	-3.10	1.69E-05
875	-1.10	1.22E-03	2862	-1.20	9.97E-03	5005	-3.10	1.71E-05
876	-0.80	2.32E-03	2872	0.90	2.36E-05	5016	-0.80	5.71E-05
888	-1.10	3.02E-04	2874	-1.00	4.08E-04	5025	1.60	1.42E-12
890	-0.70	7.36E-03	2882	1.10	6.63E-07	5036	0.70	3.43E-03
894	-1.60	9.73E-03	2885	1.50	1.85E-06	5046	-1.30	6.57E-08
898	-1.50	8.29E-06	2890	1.30	1.23E-11	5047	1.40	7.73E-03
901	-1.70	1.34E-11	2891	0.60	8.08E-03	5048	-0.70	6.51E-03
919	1.10	8.17E-04	2901	-2.00	4.19E-09	5053	-1.50	7.93E-04
928	1.00	2.23E-05	2909	-1.30	6.15E-07	5061	-1.70	3.76E-04
932	-1.30	2.60E-03	2922	1.00	1.81E-03	5069	0.90	6.94E-05
934	-1.40	6.72E-09	2924	1.60	3.29E-14	5071	0.80	2.96E-04

939	1.60	1.11E-12	2933	0.80	2.75E-04	5079	1.00	7.31E-06
947	-1.60	1.11E-05	2939	-1.10	9.67E-05	5088	0.70	2.88E-05
948	0.70	2.74E-03	2946	1.50	8.42E-12	5094	1.00	3.71E-03
949	-1.40	1.90E-07	2952	0.70	8.07E-03	5117	1.90	4.46E-09
954	1.70	1.67E-14	2959	-1.50	7.73E-09	5118	-0.90	3.53E-05
960	-1.20	1.77E-07	2971	-0.90	1.83E-04	5122	-1.10	1.65E-03
962	1.50	3.46E-11	2978	0.90	1.90E-04	5132	0.60	8.74E-03
964	1.50	2.64E-07	3003	1.10	5.42E-04	5134	-0.80	7.70E-04
972	1.00	1.45E-03	3006	1.10	2.87E-08	5140	1.00	1.98E-04
975	0.70	5.04E-03	3008	1.40	4.79E-07	5147	1.00	5.91E-04
979	1.10	1.78E-06	3026	-0.80	1.65E-03	5148	-1.20	2.62E-05
983	-1.00	4.59E-03	3027	-1.30	2.25E-04	5149	-0.70	7.46E-03
984	1.40	4.96E-09	3029	-1.40	3.94E-03	5152	0.70	1.93E-04
994	-1.40	6.53E-09	3031	1.40	1.02E-05	5162	-0.90	5.62E-03
1010	-0.70	6.72E-03	3033	-1.70	3.90E-03	5163	-0.70	7.47E-03
1014	-1.00	8.87E-03	3034	1.50	1.10E-10	5164	-0.70	3.90E-03
1016	-1.40	1.35E-07	3040	-0.80	3.55E-04	5166	-0.70	3.58E-03
1027	-0.70	3.53E-03	3044	-0.90	6.36E-03	5169	0.70	5.02E-03
1028	1.30	4.63E-04	3048	0.80	3.08E-03	5172	-1.10	1.17E-05
1035	-0.70	7.99E-03	3050	-1.50	2.55E-06	5177	-1.00	4.30E-05
236								
1042	1.00	5.10E-06	3051	-0.80	2.75E-03	5185	0.70	5.46E-03
1050	-1.50	1.28E-05	3053	1.30	1.39E-09	5196	0.70	6.21E-03
1057	0.60	9.25E-03	3056	1.30	2.00E-04	5205	-0.70	9.77E-03
1061	-1.80	2.10E-05	3057	-1.00	4.59E-05	5211	1.00	4.71E-03
1062	-1.20	4.85E-03	3059	-0.90	2.32E-04	5212	-0.90	4.41E-04
1065	-0.80	3.39E-04	3066	1.70	4.11E-18	5226	1.00	6.86E-04
1068	-1.10	4.55E-03	3068	1.20	3.72E-08	5231	1.00	4.29E-06
1069	-1.10	3.54E-03	3077	0.90	7.04E-05	5241	-0.90	1.98E-04
1080	-2.00	8.48E-04	3083	0.90	8.93E-04	5247	1.20	4.82E-07
1084	0.90	2.49E-04	3085	-0.90	5.18E-03	5257	1.30	4.16E-03
1089	-0.70	3.38E-03	3089	-1.10	5.91E-05	5261	-0.80	2.55E-03
1090	1.30	1.94E-03	3097	-1.40	4.34E-06	5262	1.00	3.29E-03
1091	1.30	2.56E-03	3100	-1.50	2.08E-06	5272	0.70	1.14E-03
1094	0.90	1.03E-04	3111	1.10	1.18E-04	5275	-1.00	9.78E-05
1098	-0.70	6.77E-03	3113	-0.90	3.34E-04	5278	0.90	4.72E-03
1100	-1.80	4.03E-07	3117	1.20	2.65E-03	5279	-1.10	3.87E-06
1104	0.60	9.04E-03	3118	-0.70	9.99E-03	5280	0.70	9.74E-03
1108	-0.60	7.07E-03	3120	-0.90	2.98E-04	5285	-1.60	4.37E-09
1110	-1.00	9.37E-05	3124	-0.70	8.38E-04	5291	1.80	5.99E-08
1114	-1.30	4.29E-03	3125	-0.80	2.19E-03	5293	-1.40	2.23E-03
1115	-1.30	3.98E-03	3127	-0.90	4.27E-04	5300	1.20	9.79E-04
1121	-1.10	2.45E-04	3129	0.90	2.54E-04	5302	-1.80	8.06E-15

1138	-1.10	2.23E-03	3131	0.80	4.48E-04	5316	1.20	8.63E-07
1140	1.00	4.27E-06	3132	0.80	4.04E-04	5317	0.90	4.36E-04
1144	-0.80	1.38E-03	3133	0.60	8.03E-03	5321	1.10	1.46E-06
1148	0.80	6.67E-05	3139	-0.80	8.63E-03	5322	1.30	1.83E-04
1152	1.40	6.11E-05	3140	0.90	9.25E-05	5323	-0.80	1.40E-03
1154	-1.40	3.04E-04	3141	1.00	1.49E-05	5331	-0.70	9.51E-03
1156	-0.50	3.15E-03	3143	-1.50	4.15E-08	5336	0.60	3.29E-03
1161	1.50	1.71E-10	3144	-1.00	9.43E-05	5344	0.80	2.36E-04
1162	0.90	9.83E-06	3145	-1.00	9.42E-05	5345	1.30	6.99E-08
1163	1.10	1.64E-03	3151	-1.10	5.35E-03	5347	-2.00	3.48E-03
1165	0.90	2.39E-04	3152	1.10	5.23E-07	5353	1.20	1.37E-08
1167	0.90	5.05E-05	3154	1.00	1.26E-04	5355	0.70	4.19E-03
1170	-0.80	2.81E-05	3165	-1.90	1.02E-07	5360	1.20	9.70E-05
1182	1.00	6.38E-06	3166	-0.90	1.79E-04	5368	0.90	1.61E-04
1183	0.80	1.13E-03	3167	-0.90	3.79E-03	5376	0.90	2.66E-04
1185	1.00	8.64E-06	3170	1.00	1.81E-04	5378	0.90	7.73E-03
1186	1.10	1.37E-06	3177	-1.10	7.26E-03	5379	-1.30	4.19E-08
1187	1.00	1.57E-05	3183	-1.00	1.74E-04	5399	-1.30	2.46E-05
1188	0.90	2.55E-05	3184	1.40	1.04E-09	5404	-0.90	3.66E-05
1195	0.90	1.88E-04	3190	0.80	3.89E-03	5406	-0.70	6.40E-03
1212	1.10	4.49E-03	3200	-0.80	1.50E-03	5413	0.90	1.89E-04
1213	1.20	4.69E-07	3210	0.60	6.43E-03	5428	0.90	1.01E-04
1214	0.90	2.41E-04	3218	-0.90	1.29E-03	5429	1.10	2.26E-07
1229	-0.90	3.69E-04	3220	0.80	1.29E-03	5432	1.00	1.24E-06
1230	1.20	3.15E-03	3239	-1.40	8.82E-04	5439	-2.20	1.12E-03
1237	-0.90	1.37E-03	3240	-1.40	8.99E-04	5443	1.20	3.06E-04
1238	0.70	9.09E-04	3245	0.80	2.22E-03	5446	1.30	4.70E-08
1239	-1.00	6.38E-04	3248	-1.60	3.69E-03	5448	1.50	2.34E-06
1241	1.50	3.15E-04	3258	0.90	5.89E-05	5454	-1.00	4.15E-04
1244	1.60	1.17E-12	3259	0.80	3.75E-04	5461	-1.20	2.42E-04
1245	0.70	7.46E-03	3266	0.70	9.06E-04	5463	-0.60	7.67E-03
1251	1.20	2.72E-06	3272	1.10	8.38E-05	5465	0.80	2.45E-04
1252	-2.20	5.68E-09	3275	-0.90	7.34E-03	5470	-0.70	9.14E-03
1255	0.60	1.50E-03	3276	-0.90	3.62E-05	5478	0.80	1.41E-03
1256	1.30	8.07E-09	3277	-0.80	1.70E-04	5480	1.30	1.97E-08
1262	0.60	9.05E-03	3278	-1.20	4.31E-05	5489	-0.60	9.07E-03
1265	1.40	6.09E-07	3281	-1.40	2.89E-04	5490	-0.80	5.51E-03
1266	-0.90	3.70E-04	3286	0.90	2.53E-05	5491	0.90	4.66E-05
1281	0.90	3.81E-04	3290	1.30	1.55E-03	5492	-1.10	3.76E-05
1283	1.00	1.69E-04	3299	0.90	1.62E-03	5493	-0.90	1.53E-04
1287	-1.90	1.87E-08	3306	0.80	8.21E-03	5501	1.10	1.89E-06
237								
1301	-0.80	3.16E-03	3310	1.10	5.93E-06	5502	1.10	2.48E-06

1305	0.60	5.92E-03	3317	1.20	6.54E-08	5505	-1.50	2.60E-03
1306	-1.00	1.15E-03	3318	0.80	4.18E-03	5509	1.00	8.93E-05
1308	-0.90	6.82E-03	3322	-1.70	8.29E-10	5512	-1.00	2.36E-03
1311	1.20	1.26E-05	3327	-1.10	5.34E-03	5520	1.00	1.21E-05
1317	-1.30	5.96E-04	3341	-1.30	2.77E-04	5522	-1.10	1.07E-05
1320	-1.00	1.29E-04	3343	-0.60	1.92E-03	5529	-1.30	4.93E-08
1327	-1.00	4.27E-05	3353	0.90	4.14E-05	5541	-1.30	7.50E-03
1332	1.30	1.63E-07	3357	-0.90	9.16E-04	5552	-0.70	4.27E-03
1333	1.30	1.78E-04	3358	0.70	6.96E-03	5557	-0.90	4.85E-04
1349	-0.70	1.49E-03	3359	-1.20	3.06E-06	5558	-0.90	4.02E-04
1350	-0.90	2.14E-03	3361	1.00	3.70E-04	5561	1.10	8.69E-03
1354	-1.40	3.50E-04	3366	1.00	5.69E-03	5563	-1.10	4.64E-07
1357	0.90	9.27E-03	3371	1.60	1.36E-12	5570	0.90	7.11E-06
1360	1.30	1.68E-08	3388	-1.60	6.10E-06	5571	1.40	4.97E-04
1364	0.70	2.75E-03	3390	1.20	3.28E-04	5574	-1.00	1.14E-04
1380	-2.10	9.23E-07	3391	0.90	1.20E-05	5580	-0.80	1.91E-03
1385	-1.10	2.03E-05	3392	1.30	4.02E-06	5590	1.30	2.94E-09
1388	-1.00	3.26E-03	3395	1.20	5.55E-05	5592	0.80	6.16E-04
1389	1.40	1.64E-05	3417	0.90	2.68E-05	5593	-1.10	2.04E-04
1390	-1.40	6.33E-03	3418	0.70	3.36E-03	5602	-1.00	8.28E-05
1393	-1.40	7.36E-09	3420	1.50	1.57E-10	5605	-1.50	3.55E-03
1396	-0.80	9.65E-04	3431	1.30	2.18E-03	5606	-1.40	6.31E-03
1397	0.70	4.92E-03	3432	1.30	2.17E-03	5608	-1.70	3.98E-11
1401	-1.30	2.81E-08	3438	-0.40	6.98E-03	5611	0.80	1.18E-03
1406	-1.50	3.09E-08	3445	1.60	1.93E-07	5614	-1.10	7.62E-03
1410	-1.00	9.95E-05	3447	0.90	1.32E-04	5616	1.00	3.83E-04
1415	-1.10	6.06E-06	3448	0.90	6.08E-04	5619	0.90	8.23E-05
1429	-0.70	1.98E-03	3455	1.00	3.82E-05	5623	0.90	1.62E-03
1436	-1.00	3.63E-04	3458	-0.80	1.48E-03	5637	1.30	1.94E-06
1438	0.70	5.75E-03	3466	0.70	2.87E-03	5638	1.20	1.32E-06
1439	1.00	1.18E-05	3467	1.10	9.50E-07	5658	1.40	3.91E-04
1441	-1.80	2.79E-03	3468	0.70	2.00E-03	5660	0.70	2.85E-03
1450	-0.60	8.96E-03	3479	-2.00	3.08E-05	5667	0.80	1.38E-03
1451	1.60	8.47E-08	3485	-1.60	7.84E-09	5668	-1.30	2.17E-05
1455	1.00	7.32E-03	3490	1.10	6.93E-06	5670	0.90	4.38E-05
1464	0.90	2.39E-04	3491	1.70	1.91E-14	5674	-1.60	1.20E-06
1465	-0.70	7.38E-03	3492	1.20	1.97E-06	5677	1.60	2.32E-14
1467	0.60	7.99E-03	3493	-0.90	6.42E-03	5684	1.40	1.04E-03
1468	0.80	1.25E-03	3497	-0.80	2.89E-03	5690	-0.90	9.75E-04
1472	-1.30	1.19E-06	3498	1.20	3.66E-08	5691	0.80	2.42E-04
1475	-1.50	4.44E-10	3511	1.50	3.35E-09	5701	1.20	1.27E-04
1483	-1.20	2.20E-03	3514	-0.80	1.72E-03	5703	0.80	1.84E-04
1491	0.90	2.54E-04	3518	-2.30	2.61E-04	5704	1.00	5.58E-06

1500	0.90	8.16E-04	3523	0.60	5.65E-03	5707	-1.20	3.19E-05
1504	0.90	1.30E-04	3527	0.90	6.25E-03	5708	-2.30	1.60E-05
1505	1.20	4.45E-04	3529	1.30	3.02E-07	5713	0.70	1.74E-03
1507	1.30	5.58E-04	3530	-0.90	6.03E-04	5715	-1.60	3.69E-03
1516	1.50	1.31E-06	3538	-1.60	6.10E-07	5719	0.70	2.50E-03
1518	-1.00	8.23E-04	3539	1.10	9.20E-06	5736	0.60	3.31E-03
1524	0.90	3.26E-05	3540	-0.90	1.52E-04	5737	-1.60	2.34E-05
1529	-1.60	6.77E-06	3550	0.80	1.07E-04	5741	-1.30	2.55E-09
1530	-1.60	1.92E-08	3554	0.70	3.14E-05	5742	-1.30	2.44E-09
1548	-0.80	3.13E-04	3558	-1.00	3.14E-05	5754	0.70	4.44E-04
1552	0.70	4.71E-03	3563	-1.70	1.73E-03	5756	1.70	5.77E-13
1558	1.10	5.86E-06	3568	1.20	5.39E-09	5757	-1.10	7.23E-03
1562	1.00	2.38E-04	3569	1.20	2.31E-07	5758	1.10	2.20E-05
1573	0.90	6.38E-05	3570	1.20	2.04E-04	5761	1.10	6.30E-06
1574	1.40	1.27E-06	3579	0.60	3.00E-03	5762	1.10	5.51E-06
1575	-1.70	2.87E-11	3586	0.80	4.80E-04	5763	1.30	2.29E-03
1577	0.90	2.45E-04	3591	1.70	1.26E-07	5764	0.70	7.89E-03
1580	0.90	1.34E-05	3593	-1.40	7.84E-08	5765	-0.70	2.06E-03
1581	1.30	4.21E-08	3594	0.90	5.74E-04	5768	-1.00	8.43E-04
238								
1583	-1.00	4.90E-03	3602	0.80	6.90E-03	5775	0.60	7.75E-03
1596	-0.90	7.73E-05	3606	0.80	6.48E-04	5777	1.60	1.17E-07
1599	1.80	1.69E-13	3613	1.40	1.05E-11	5781	0.80	2.75E-03
1604	-1.10	4.89E-04	3614	-1.00	8.62E-04	5785	-1.70	7.61E-04
1607	-0.80	7.30E-03	3617	1.80	2.11E-07	5788	-1.00	3.68E-03
1612	0.70	3.57E-03	3618	1.50	7.49E-13	5793	-0.90	3.81E-03
1614	1.30	3.74E-10	3619	-1.30	1.96E-07	5796	-0.80	1.52E-03
1616	0.80	1.14E-03	3625	0.70	3.06E-06	5798	-1.10	1.16E-04
1620	-1.10	2.91E-05	3631	-0.70	6.32E-03	5807	-0.70	7.33E-03
1622	1.80	4.86E-16	3636	-1.20	8.30E-05	5815	-1.00	4.81E-03
1623	-1.00	7.18E-06	3649	1.10	7.66E-06	5816	-2.40	4.80E-04
1625	1.30	2.91E-08	3650	1.10	2.51E-03	5819	-1.00	3.07E-03
1628	-1.10	3.13E-04	3658	1.30	1.37E-06	5821	-0.80	1.82E-03
1629	-1.10	2.97E-04	3669	0.90	1.13E-04	5822	-1.60	1.41E-03
1635	-0.70	2.70E-03	3684	0.60	6.28E-03	5823	-3.00	2.63E-05
1637	0.70	8.37E-03	3697	-1.00	6.61E-05	5824	-3.00	1.73E-05
1639	0.70	1.92E-03	3699	-1.00	1.20E-03	5825	-1.50	3.61E-05
1640	-2.20	5.10E-10	3700	1.40	2.57E-09	5833	1.10	3.48E-03
1642	0.90	2.48E-04	3702	0.80	2.99E-04	5836	-2.50	1.99E-04
1648	-1.00	1.12E-04	3704	0.90	1.52E-04	5838	-1.40	1.75E-08
1650	-0.70	7.95E-03	3705	0.80	3.56E-03	5840	0.80	5.61E-04
1653	0.90	4.91E-05	3706	-0.70	1.78E-03	5846	1.10	1.25E-05
1662	-1.20	3.11E-03	3708	0.70	3.19E-03	5856	1.20	1.66E-08

1663	-1.10	7.79E-03	3713	1.00	5.40E-05	5859	0.90	2.58E-05
1669	0.80	1.80E-04	3714	-0.50	1.30E-03	5862	1.00	2.31E-03
1677	1.30	5.15E-09	3715	1.00	2.44E-04	5868	1.40	3.92E-11
1681	0.70	8.50E-03	3716	0.90	5.75E-04	5874	0.80	7.56E-04
1686	0.70	1.80E-03	3722	1.40	1.82E-09	5875	-1.70	6.65E-11
1692	1.30	1.78E-04	3729	-1.30	2.64E-05	5877	1.10	1.75E-06
1693	0.90	3.59E-03	3731	1.20	3.23E-07	5884	-0.60	6.34E-03
1694	0.90	4.53E-03	3736	1.20	3.46E-06	5887	-2.60	4.73E-08
1704	1.30	2.64E-04	3740	-0.80	1.34E-03	5890	-1.10	3.97E-04
1705	1.10	1.52E-03	3749	-1.40	5.96E-08	5896	0.80	1.18E-03
1710	-0.90	2.80E-04	3750	-0.70	3.71E-03	5897	-1.10	2.51E-06
1730	1.30	1.67E-09	3752	-1.40	2.91E-08	5900	-2.00	2.04E-03
1731	-1.40	7.44E-10	3753	-0.90	1.29E-03	5901	-0.90	2.13E-04
1740	-1.10	3.06E-04	3760	0.90	1.07E-05	5902	0.90	8.87E-05
1741	0.80	1.87E-03	3765	-0.60	9.75E-03	5903	1.10	2.91E-03
1743	-2.20	1.28E-04	3768	-3.10	1.62E-06	5906	1.10	2.68E-06
1744	0.90	3.68E-04	3770	0.90	2.52E-05	5908	1.30	1.45E-06
1745	0.90	1.60E-04	3771	-0.90	2.35E-03	5910	-1.50	3.56E-04
1747	0.60	8.28E-03	3772	-1.30	1.56E-04	5914	1.20	1.55E-07
1751	1.40	2.47E-10	3776	-1.00	5.97E-05	5924	-0.70	5.11E-03
1752	2.00	1.55E-15	3778	-1.30	3.24E-07	5930	-0.90	1.21E-03
1755	1.00	2.69E-05	3780	1.00	4.69E-06	5931	0.80	1.10E-03
1760	0.70	4.73E-03	3788	-0.70	8.11E-03	5945	0.70	2.69E-03
1761	0.70	2.26E-03	3792	-1.10	3.49E-04	5948	-0.60	8.08E-03
1764	-0.80	2.67E-03	3796	-1.60	2.42E-05	5955	0.90	1.22E-03
1766	0.90	7.59E-04	3797	-1.60	1.55E-05	5958	0.80	8.14E-04
1780	0.80	2.76E-04	3798	-1.00	1.24E-03	5966	1.30	3.92E-10
1781	0.70	8.40E-03	3803	0.80	3.13E-03	5971	1.70	1.66E-14
1782	0.70	7.89E-03	3808	-0.80	2.61E-03	5972	1.20	3.14E-07
1784	1.70	6.48E-07	3810	-1.00	1.81E-04	5973	0.60	6.12E-03
1790	-0.80	3.39E-05	3821	1.40	7.99E-05	5986	1.00	6.13E-05
1792	0.80	1.02E-03	3823	0.80	1.43E-03	5992	-0.50	4.96E-03
1794	0.70	1.89E-03	3824	0.70	2.47E-03	6007	-1.00	7.64E-03
1799	0.70	1.23E-03	3859	-0.90	1.08E-04	6008	-0.70	3.00E-03
1803	-1.50	7.67E-04	3862	1.00	4.90E-05	6015	-1.10	5.66E-06
1806	1.20	1.15E-03	3865	-0.70	6.58E-03	6016	-1.10	1.49E-06
1808	-0.70	8.10E-03	3878	-1.90	3.54E-14	6025	-1.90	2.09E-03
1820	-1.00	3.60E-03	3883	0.60	7.58E-03	6030	-0.80	6.95E-04
1825	-0.80	3.80E-04	3884	-1.10	5.39E-06	6031	1.00	1.84E-05
1827	-0.70	1.83E-03	3886	1.60	3.48E-14	6036	-0.80	2.56E-03
239								
1833	-1.00	3.99E-03	3895	-0.90	4.30E-04	6049	1.40	9.12E-05
1837	0.70	1.19E-03	3900	-1.00	3.47E-05	6050	-0.50	4.18E-03

1843	-1.20	1.84E-03	3902	-1.30	3.53E-05	6061	-1.70	1.71E-03
1846	-1.20	6.29E-03	3905	0.80	2.71E-03	6066	0.70	6.44E-03
1847	-1.40	3.11E-05	3910	1.20	6.28E-09	6067	0.90	6.86E-05
1858	-0.70	6.85E-03	3911	-1.50	3.18E-04	6068	1.10	1.08E-06
1862	-0.80	5.15E-04	3914	-0.80	3.09E-04	6073	-0.60	1.97E-04
1864	-0.90	1.51E-03	3917	0.70	3.03E-03	6086	-1.50	5.15E-07
1869	1.70	1.97E-15	3918	-1.10	1.81E-04	6087	-1.20	1.85E-06
1875	-1.30	2.29E-03	3926	1.10	5.27E-07	6088	-1.20	1.17E-06
1876	1.10	2.67E-06	3927	-0.90	2.52E-04	6095	2.10	1.13E-06
1879	-2.10	5.47E-08	3929	0.90	1.37E-04	6100	0.80	7.90E-03
1884	-1.30	1.78E-05	3930	-1.60	5.48E-04	6101	0.80	8.31E-03
1890	1.30	5.84E-06	3940	0.80	1.30E-03	6102	-1.10	4.11E-05
1892	0.90	5.71E-05	3947	-1.50	2.65E-08	6103	-0.80	4.38E-03
1894	1.20	2.62E-07	3959	1.00	4.90E-03	6104	-0.70	1.18E-03
1918	1.10	2.60E-07	3961	1.10	6.08E-07	6105	1.20	4.34E-08
1920	0.90	1.92E-03	3972	1.40	2.43E-07	6112	-1.00	5.95E-04
1924	-0.70	8.54E-03	3978	-0.70	4.45E-03	6117	-0.90	1.29E-04
1928	-1.20	3.80E-06	3983	1.00	5.46E-06	6127	-1.10	6.80E-03
1929	1.20	8.06E-08	4015	1.10	2.57E-07	6134	-0.70	5.59E-03
1930	1.20	5.20E-08	4021	1.80	2.47E-07	6136	-1.40	4.85E-08
1931	1.60	6.58E-08	4022	-1.10	2.06E-03	6137	-1.40	2.71E-08
1933	0.90	6.74E-05	4025	1.10	1.65E-06	6139	-0.80	3.23E-03
1939	1.00	2.94E-06	4027	1.50	1.55E-10	6142	-0.70	8.36E-03
1941	1.10	2.77E-06	4028	-1.60	3.36E-03	6150	-2.30	1.22E-04
1944	0.50	9.92E-03	4045	1.40	5.57E-09	6152	1.50	3.65E-11
1949	-1.10	6.05E-03	4051	-1.10	1.15E-06	6157	-1.40	7.82E-03
1952	-1.40	4.33E-03	4052	-1.40	3.48E-08	6169	1.30	5.84E-07
1953	0.90	8.66E-03	4053	1.10	3.40E-06	6170	0.90	5.79E-03
1971	-1.00	5.79E-06	4060	1.00	1.62E-05	6186	1.00	2.30E-05
1974	-1.10	5.02E-06	4061	0.90	2.23E-05	6187	0.90	1.42E-04
1981	1.40	7.82E-10	4068	1.60	6.56E-05	6192	-1.00	1.25E-03
1982	-0.80	1.92E-04	4070	-1.00	8.52E-05	6204	-1.40	1.42E-04
1985	-1.20	1.48E-06	4079	1.20	5.52E-06	6214	1.20	6.80E-08
1986	-1.50	2.88E-03	4082	0.70	4.30E-03	6219	1.20	2.98E-06
1988	-1.00	1.01E-03	4084	1.40	5.27E-08	6229	-1.10	9.73E-08
1990	-1.20	2.66E-03	4088	-0.70	1.74E-03	6230	0.90	9.81E-05
1996	1.10	9.21E-04	4090	-0.90	1.80E-03	6243	0.80	2.23E-04
1999	1.20	3.81E-08	4096	1.20	1.22E-05	6245	1.10	5.57E-07
2001	1.40	5.10E-08	4097	-1.10	3.65E-06	6249	1.60	4.13E-15
2004	1.30	1.21E-07	4100	1.10	1.21E-05	6250	-1.60	2.00E-09
2010	1.20	1.48E-07	4115	1.10	1.41E-06	6253	-0.80	3.22E-04
2011	-0.90	5.72E-03	4120	-0.80	2.81E-03	6257	-2.10	2.67E-03
2017	-1.00	1.69E-03	4133	0.80	1.23E-06	6258	-1.40	3.15E-04

2018	1.20	1.66E-07	4134	-0.80	8.98E-04	6263	-1.30	6.09E-06
2019	1.20	4.18E-07	4136	0.90	9.59E-03	6266	-2.50	7.16E-04
2037	0.60	8.49E-03	4150	-0.90	6.89E-04	6272	-0.60	8.51E-03
2041	-1.00	4.36E-05	4155	1.20	8.86E-07	6280	-0.80	6.50E-03
2045	0.90	7.45E-05	4156	0.80	4.05E-04	6284	1.00	2.13E-05
2049	1.10	7.89E-06	4164	1.00	1.05E-05	6285	0.70	1.73E-03
2052	0.90	1.50E-03	4165	-1.60	2.97E-07	6294	-0.90	9.34E-05
2059	1.40	3.25E-09	4166	-1.80	4.23E-11	6303	1.10	1.98E-06
2063	1.50	3.83E-03	4167	1.00	7.89E-04	6304	1.10	1.18E-06
2075	-1.30	1.80E-06	4170	1.10	1.21E-06	6305	1.30	4.47E-08
2077	0.90	3.56E-06	4179	-0.70	4.48E-03	6307	-1.00	1.12E-03
2078	-0.70	4.86E-03	4194	-1.10	4.74E-05	6310	1.00	6.40E-06
2088	0.70	9.54E-03	4196	1.30	2.53E-06	6321	1.40	4.60E-10
2093	-0.70	3.87E-05	4202	1.00	7.76E-06	6326	-1.20	8.71E-04
2096	-1.10	6.58E-06	4204	-1.10	3.25E-06	6330	-0.90	2.34E-03
2101	-1.50	4.82E-07	4205	0.70	3.78E-03	6332	1.00	8.64E-04
2102	1.00	2.06E-05	4210	-0.80	2.43E-03	6333	0.90	4.17E-05
2107	1.30	1.83E-07	4212	-1.20	2.28E-05	6337	-1.60	5.20E-10
240								
2108	2.40	8.02E-10	4214	-2.70	3.07E-07	6339	0.70	1.54E-03
2110	1.20	2.38E-08	4219	1.10	1.75E-03	6352	-1.40	2.03E-03
2116	-2.00	3.02E-04	4221	0.90	2.29E-04	6358	1.10	7.66E-07
2118	1.30	3.54E-07	4234	-1.90	5.94E-09	6365	-0.80	5.65E-04
2121	0.80	9.94E-03	4235	1.30	2.13E-03	6366	-1.90	1.91E-07
2123	1.00	3.20E-04	4236	0.90	5.15E-03	6372	0.80	1.60E-04
10141	3.75	5.00E-02	15115	-1.07	1.25E-04	14474	-0.95	9.11E-03
10739	0.41	5.00E-02	15128	1.65	1.73E-12	14476	0.90	5.97E-04
10742	-3.04	5.00E-02	15131	-1.03	3.74E-05	14478	-1.74	6.74E-07
10825	2.48	5.00E-02	15132	-1.86	2.32E-03	14484	0.80	3.87E-04
10831	-0.39	5.00E-02	15137	0.96	4.62E-03	14523	1.07	2.12E-06
10868	-1.15	5.00E-02	15147	-0.65	7.55E-03	14524	-2.19	3.16E-08
10890	-2.30	5.00E-02	15150	1.12	5.77E-06	14535	-1.00	2.09E-04
10914	-1.04	5.00E-02	15164	0.67	2.44E-03	14536	-1.23	3.09E-03
11111	-0.66	5.00E-02	15191	-0.67	8.43E-03	14555	0.78	1.16E-03
11156	2.51	5.00E-02	15211	-0.97	1.14E-03	14560	-1.73	1.43E-05
11498	0.95	5.00E-02	15216	-1.02	6.26E-03	14612	-1.21	5.43E-07
11534	9.60	5.00E-02	15232	0.84	9.30E-03	14616	-1.81	5.60E-06
11545	0.41	5.00E-02	15239	1.10	2.36E-06	14625	-1.81	2.50E-07
11552	2.10	5.00E-02	15243	-1.30	1.95E-03	14628	-0.72	5.09E-04
11611	0.41	5.00E-02	15244	-2.10	6.76E-04	14631	-1.64	7.45E-13
11625	-93.28	5.00E-02	15248	-2.17	3.30E-05	14649	1.05	6.30E-06
11761	1.51	5.00E-02	15252	1.12	4.53E-05	14658	0.62	2.79E-03
11820	3.01	5.00E-02	15260	-2.16	1.30E-11	14695	-1.23	3.56E-06

11841	-2.92	5.00E-02	15277	-0.89	5.65E-04	14697	-1.01	1.87E-04
12182	1.18	5.00E-02	15302	1.10	1.82E-05	14698	-1.05	9.44E-05
12270	-3.45	5.00E-02	15309	0.83	1.11E-04	14699	1.24	4.27E-08
12348	2.10	5.00E-02	15363	1.09	3.27E-03	14700	-0.73	8.35E-04
12373	2.70	5.00E-02	344	2.65	5.00E-02	14716	1.19	2.60E-07
12425	-1.52	5.00E-02	482	-0.60	5.00E-02	14727	1.40	3.88E-10
12426	-2.75	5.00E-02	602	-1.72	5.00E-02	14783	1.06	2.53E-06
12449	2.16	5.00E-02	610	-0.36	5.00E-02	14790	-1.46	9.93E-04
12578	1.07	5.00E-02	685	1.53	5.00E-02	14791	0.91	7.04E-05
12712	1.83	5.00E-02	719	-0.39	5.00E-02	14800	-0.70	4.82E-03
12744	-1.94	5.00E-02	763	-0.32	5.00E-02	14807	-1.14	2.55E-03
13106	-1.46	5.00E-02	807	-3.82	5.00E-02	14817	-1.31	2.90E-03
13152	8.57	5.00E-02	946	-0.39	5.00E-02	14825	0.82	6.04E-04
13350	-5.53	5.00E-02	1190	0.91	5.00E-02	14828	0.65	5.84E-03
13373	-1.09	5.00E-02	2167	-4.53	5.00E-02	14839	-1.05	2.02E-05
13509	-7.38	5.00E-02	2352	-0.20	5.00E-02	14841	-0.75	9.53E-03
13628	2.11	5.00E-02	2669	1.02	5.00E-02	14866	0.87	8.44E-05
13655	6.04	5.00E-02	2948	-0.47	5.00E-02	14872	-2.72	2.35E-03
13719	-3.36	5.00E-02	3556	0.08	5.00E-02	14883	1.86	9.73E-08
13876	-1.36	5.00E-02	3620	-0.36	5.00E-02	14886	0.55	9.09E-03
13970	4.20	5.00E-02	3815	5.29	5.00E-02	14891	-1.14	5.20E-03
14150	-1.04	5.00E-02	4302	-3.39	5.00E-02	14899	0.92	3.77E-04
14158	96.93	5.00E-02	4361	-2.24	5.00E-02	14904	0.95	1.98E-05
10900	-0.80	8.67E-04	11890	-0.70	1.70E-03	12834	1.06	1.81E-04
10911	-0.90	1.64E-04	11896	-1.90	2.16E-11	12847	-1.80	1.38E-05
10917	-1.00	4.64E-03	11898	-1.50	2.54E-08	12849	-0.83	4.86E-04
10923	-2.00	2.28E-05	11900	-1.50	6.89E-05	12850	0.68	3.45E-03
10924	1.20	2.21E-08	11902	-1.90	7.94E-03	12852	0.64	5.64E-03
10926	-2.60	4.43E-06	11907	0.80	1.34E-03	12856	0.90	9.70E-05
10934	-1.20	5.49E-05	11908	0.80	5.40E-04	12859	-0.90	4.85E-04
10948	-0.70	3.61E-03	11929	0.70	6.20E-05	12865	1.15	2.61E-03
10954	1.30	3.46E-03	11931	0.70	1.85E-03	12881	0.93	5.28E-05
10965	1.20	3.86E-08	11932	0.80	8.03E-03	12882	-1.07	6.48E-03
10977	-1.80	1.06E-08	11936	-0.80	3.85E-04	12885	0.88	1.90E-04
10991	1.00	8.09E-05	11940	-0.70	5.41E-03	12889	1.26	1.88E-10
10992	-1.10	1.96E-04	11947	-1.30	1.14E-07	12893	-0.92	1.47E-04
11000	-1.40	3.47E-03	11961	-1.30	1.75E-07	12902	-1.06	1.77E-05
11007	-1.20	1.77E-04	11977	-1.00	7.67E-05	12905	-1.75	4.77E-08
11012	-1.00	1.53E-04	11998	0.90	5.88E-03	12909	-1.11	1.80E-05
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11013	-1.80	4.52E-07	12005	1.30	1.70E-03	12910	0.66	5.74E-03
11029	0.80	2.48E-03	12010	1.20	1.01E-06	12929	-1.88	1.86E-07
11058	-1.20	4.02E-03	12012	-1.30	2.77E-03	12933	-1.88	1.91E-05

11059	-1.60	1.03E-03	12015	1.30	1.02E-05	12938	-1.92	3.94E-03
11063	-1.00	3.08E-03	12019	-1.00	2.34E-05	12940	0.66	6.93E-03
11076	-1.30	1.45E-04	12032	1.20	2.63E-07	12948	-1.25	9.94E-03
11078	0.60	5.72E-03	12042	0.90	1.87E-04	12952	0.59	5.07E-03
11083	-0.80	2.25E-03	12043	-1.20	3.72E-05	12977	1.01	4.74E-04
11085	-0.60	9.94E-03	12063	1.30	1.90E-08	12990	-0.76	7.06E-03
11087	0.70	2.75E-03	12065	-1.30	2.95E-03	12994	-0.80	6.75E-04
11088	1.10	1.42E-06	12066	1.00	7.29E-06	12997	0.97	6.18E-04
11090	0.90	8.77E-04	12072	1.00	3.99E-03	12998	0.87	7.26E-05
11095	1.20	1.73E-04	12073	-1.30	3.00E-04	13000	-0.70	1.10E-03
11096	1.60	1.22E-06	12090	1.10	5.63E-07	13001	-0.99	9.88E-04
11097	-1.90	5.71E-10	12091	0.80	7.46E-03	13003	-1.50	2.49E-06
11101	0.70	2.34E-03	12127	0.80	6.75E-03	13007	1.21	1.37E-05
11102	0.70	2.76E-03	12131	-1.80	1.41E-03	13009	-0.81	1.60E-03
11103	1.20	7.21E-07	12132	1.00	1.81E-06	13010	0.59	9.58E-03
11127	-0.70	7.97E-03	12153	0.90	9.68E-04	13025	0.83	4.45E-04
11130	-0.80	5.16E-03	12154	-0.70	4.42E-03	13038	1.49	5.22E-06
11139	-1.00	4.16E-05	12157	1.20	5.07E-05	13043	0.62	3.20E-03
11151	1.00	1.82E-03	12162	-1.10	2.70E-06	13051	1.11	1.88E-07
11159	0.90	1.15E-04	12168	1.80	1.69E-15	13063	-0.99	2.38E-03
11161	-1.80	1.63E-05	12174	-1.70	1.02E-12	13065	-1.11	1.21E-04
11172	-1.10	5.10E-06	12175	0.80	5.40E-04	13075	0.60	4.21E-03
11173	0.90	9.57E-05	12181	1.00	4.94E-03	13091	0.79	1.06E-03
11180	-1.30	1.53E-05	12186	0.80	1.60E-03	13103	0.91	5.23E-05
11184	0.80	1.39E-03	12187	-1.40	1.30E-08	13109	0.64	5.05E-03
11191	-1.30	7.34E-09	12190	-0.90	2.80E-04	13111	0.85	6.80E-05
11196	0.80	5.33E-04	12194	-1.10	1.71E-03	13116	-1.09	3.49E-03
11206	-1.50	9.70E-09	12200	1.20	1.10E-07	13124	-0.55	1.63E-03
11210	1.20	9.86E-05	12207	-1.30	8.86E-04	13128	-1.38	1.90E-03
11219	-1.20	4.41E-05	12219	-0.90	2.76E-04	13136	-1.18	2.00E-03
11224	0.90	3.40E-04	12226	-0.90	2.27E-03	13139	1.10	1.58E-06
11228	1.50	6.04E-04	12230	2.00	2.79E-12	13140	-0.79	4.88E-04
11244	1.10	7.58E-07	12232	0.70	1.84E-03	13143	1.07	3.54E-05
11249	-0.80	4.03E-04	12241	-2.60	6.14E-08	13153	-1.17	8.47E-06
11251	0.70	2.09E-03	12242	-1.00	1.18E-05	13154	-0.66	8.11E-03
11290	-1.10	4.50E-05	12253	-0.69	6.09E-03	13161	-0.70	3.14E-03
11293	1.00	6.40E-03	12262	-0.72	7.60E-03	13171	0.80	6.31E-03
11294	-0.90	5.96E-03	12283	0.82	4.26E-04	13183	1.11	3.87E-03
11302	0.80	1.70E-03	12284	0.98	4.95E-06	13184	-0.92	5.58E-03
11303	-0.60	8.21E-03	12288	1.48	2.34E-10	13185	0.60	8.03E-03
11306	-0.70	2.67E-03	12291	0.95	8.73E-06	13191	-2.04	1.14E-05
11311	-1.20	1.48E-06	12292	0.67	3.44E-03	13201	1.36	1.78E-03
11340	1.40	1.40E-10	12294	-1.10	1.75E-03	13210	1.10	9.60E-07

11344	0.70	2.01E-03	12304	-1.24	9.78E-07	13211	-1.72	9.91E-05
11352	0.70	9.45E-03	12305	-1.08	6.32E-05	13212	0.89	4.96E-04
11355	-0.90	7.86E-03	12307	1.17	6.64E-06	13214	0.84	2.60E-04
11359	-0.90	2.71E-04	12308	0.78	1.59E-03	13253	1.00	1.46E-05
11382	-1.10	1.68E-05	12310	1.23	3.28E-03	13259	-0.82	6.16E-03
11383	0.70	1.15E-03	12322	0.89	6.68E-06	13276	0.89	3.92E-05
11384	-0.80	1.80E-03	12326	1.01	1.70E-05	13302	0.81	1.67E-04
11386	-1.60	2.85E-04	12327	-0.81	7.52E-03	13310	0.75	1.73E-03
11390	-1.40	2.95E-06	12329	0.93	9.54E-05	13315	1.32	2.75E-03
11400	-1.00	9.45E-04	12330	1.00	2.45E-05	13324	1.17	6.13E-07
11406	-0.90	8.43E-04	12334	-0.96	2.90E-04	13326	1.01	8.58E-04
11408	-0.80	4.30E-03	12336	1.22	3.34E-08	13328	1.28	3.96E-07
11410	-1.20	6.35E-07	12343	-1.93	3.71E-03	13340	-1.38	1.58E-04
11415	-2.10	3.88E-03	12344	0.95	1.26E-04	13344	0.70	3.37E-03
11417	0.70	1.29E-03	12356	-1.24	9.42E-05	13367	1.20	2.78E-07
11433	0.80	6.85E-03	12358	-1.54	8.25E-11	13379	0.91	4.42E-04
11440	1.10	3.61E-04	12365	-0.83	8.96E-04	13383	0.85	3.32E-04
242								
11442	-0.70	4.21E-03	12368	1.56	6.36E-14	13388	0.67	1.85E-03
11444	1.10	6.60E-06	12376	0.68	7.59E-03	13392	-0.87	4.27E-03
11446	0.80	4.71E-04	12393	1.46	1.42E-11	13403	-0.91	4.40E-04
11450	-0.70	7.33E-03	12395	0.72	9.92E-04	13415	1.04	4.80E-03
11462	1.50	4.75E-08	12406	-1.35	2.97E-04	13420	1.05	3.84E-05
11471	0.70	1.09E-03	12411	1.87	7.13E-10	13434	0.67	9.36E-03
11480	-1.10	5.59E-05	12412	-0.77	1.13E-03	13435	-1.50	5.34E-04
11485	-1.90	1.44E-04	12419	-0.97	9.63E-03	13455	-0.75	3.04E-04
11489	1.60	1.79E-06	12423	-1.04	3.51E-04	13466	-1.09	6.07E-06
11490	-2.00	7.74E-06	12443	1.27	1.36E-06	13475	-0.86	2.94E-04
11492	-1.20	1.21E-07	12444	-2.09	2.68E-04	13477	0.68	5.50E-03
11495	0.70	1.71E-03	12454	0.61	9.50E-03	13512	1.07	3.91E-06
11497	0.90	1.53E-04	12462	0.81	1.83E-04	13517	-0.91	5.92E-03
11499	0.90	5.95E-05	12465	-1.69	1.87E-04	13521	-1.06	5.62E-05
11510	0.70	1.50E-03	12466	-0.96	5.86E-03	13523	1.46	2.11E-07
11511	1.30	4.20E-06	12477	-0.88	8.01E-03	13527	-1.34	3.08E-09
11512	1.20	1.35E-05	12481	0.89	1.79E-03	13529	1.32	3.32E-08

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6373	1.60	6.82E-12	8508	-1.10	1.15E-05
6375	1.10	1.15E-05	8514	-1.00	9.21E-03
6376	0.90	4.07E-05	8515	-0.80	1.59E-03
6377	0.70	9.48E-03	8526	0.60	6.37E-03
6398	-2.00	7.18E-08	8529	-2.00	2.05E-03
6400	-0.60	8.99E-03	8550	-0.70	9.96E-03
6408	1.10	3.31E-06	8551	1.10	1.15E-05
6411	-1.20	3.86E-06	8554	-1.20	2.56E-03
6415	-1.30	1.11E-06	8557	-1.70	1.02E-03
6416	0.80	1.43E-03	8559	1.00	1.56E-05
6417	0.90	9.46E-05	8560	0.80	1.02E-03
6420	-1.20	8.69E-08	8562	-0.70	2.75E-03
6429	-0.70	5.44E-03	8576	-1.10	8.91E-05
6434	1.00	4.80E-05	8582	-0.80	5.42E-04
6436	1.30	2.72E-09	8589	-1.50	1.93E-05
6437	0.70	6.02E-03	8591	-0.70	7.10E-03
6441	1.20	6.66E-03	8593	-0.90	7.01E-04
6452	-1.10	2.43E-04	8601	-1.00	1.37E-03
6459	1.40	2.13E-09	8604	-0.90	1.94E-04
6461	-0.80	5.76E-03	8606	-1.30	2.65E-06
6463	-1.00	1.99E-05	8611	-0.80	2.62E-04
6471	1.50	4.07E-05	8613	-1.30	1.46E-05
6480	-1.20	1.78E-03	8617	1.30	1.09E-07
6485	-1.20	4.30E-04	8624	1.00	5.38E-06
6493	-2.40	1.99E-03	8627	-1.40	3.10E-05
6498	-0.70	5.55E-03	8632	-1.20	1.12E-03
6505	-0.90	5.51E-04	8636	0.70	5.93E-03
6515	1.30	2.71E-03	8637	1.40	3.90E-05
6520	0.80	7.50E-04	8645	-1.10	2.43E-06
6521	-0.80	6.46E-03	8647	-1.50	9.59E-06
6523	-0.50	7.98E-03	8654	1.00	8.24E-05
6529	-1.00	9.43E-04	8658	0.90	9.19E-04
6531	1.10	5.46E-05	8664	1.10	1.15E-06
6532	-1.20	6.69E-03	8668	-1.00	2.95E-03
6537	0.80	7.77E-05	8673	0.90	3.27E-04
6540	-1.80	6.61E-10	8676	-1.10	1.27E-06
6545	0.70	5.52E-03	8681	-0.80	2.48E-03
6550	-0.90	2.08E-04	8686	0.80	3.39E-04
6551	-1.30	2.76E-03	8693	-2.10	4.39E-09
6555	1.00	2.01E-05	8699	1.00	6.02E-06

6564	0.90	1.34E-03	8700	0.80	5.48E-03
6565	1.00	3.32E-06	8706	-2.00	1.73E-03
6566	-1.00	7.25E-03	8710	-1.50	9.23E-05
6568	-1.00	2.59E-06	8715	-0.70	5.38E-03
6580	-1.40	9.75E-06	8724	1.80	1.36E-13
6582	1.20	2.71E-07	8725	0.60	7.68E-03
6596	-0.70	8.02E-03	8726	-1.70	1.09E-06
6601	-0.90	4.34E-03	8728	-1.90	3.93E-09
6603	-1.50	2.97E-03	8731	0.90	9.67E-05
6617	1.90	1.54E-06	8732	0.80	7.35E-04
6619	-0.70	8.72E-03	8736	1.10	3.96E-04
6626	-0.90	7.75E-04	8744	-1.30	8.09E-06
6635	-0.90	7.33E-03	8747	1.10	2.09E-06
6638	-0.90	8.20E-04	8751	-0.80	5.32E-04
6639	0.80	1.36E-03	8752	1.50	4.18E-07
6641	1.00	1.33E-05	8757	-0.70	1.98E-03
6643	0.70	8.30E-04	8759	-1.80	2.15E-03
6659	1.40	4.01E-11	8761	0.90	2.94E-04
6660	-1.30	2.15E-05	8762	-1.10	3.67E-06
6669	1.10	2.17E-06	8764	-1.80	1.33E-03
6671	-0.70	6.54E-03	8767	-1.70	1.06E-06
6676	-1.90	5.56E-08	8771	0.80	2.43E-03
6677	1.00	2.98E-06	8777	-0.70	7.58E-03
6678	1.00	3.74E-03	8786	-0.70	4.02E-03
6681	0.90	8.94E-05	8793	0.80	3.09E-03
6683	-0.70	2.15E-03	8795	-0.80	4.57E-04
6684	1.40	1.09E-08	8800	1.20	1.72E-05
6685	-1.40	6.62E-04	8808	0.70	6.82E-04
6697	1.30	1.55E-09	8812	1.20	2.58E-03
6703	-1.10	1.03E-04	8813	-1.60	2.62E-03
6709	1.40	6.89E-10	8815	0.70	2.49E-03
6714	-0.60	2.91E-03	8820	-0.90	1.67E-04
6722	-1.50	6.55E-07	8822	-0.80	2.25E-03
6724	1.00	4.15E-04	8824	-1.00	9.90E-03
6732	-0.70	4.48E-03	8825	-0.60	7.86E-03
6733	1.30	2.27E-03	8833	-0.80	2.41E-06
6735	1.30	9.48E-08	8840	-0.80	6.92E-03
6741	1.40	2.85E-05	8841	-1.50	1.02E-05
6743	-1.30	1.10E-03	8846	-1.10	4.17E-03
6749	-1.20	1.55E-03	8847	-0.60	5.42E-03
6754	0.60	4.91E-03	8848	-1.30	2.11E-06
6755	1.00	1.11E-04	8851	-1.40	4.24E-06

6757	-0.90	4.16E-03	8857	1.30	4.07E-08
6763	0.80	2.68E-03	8863	-0.90	1.81E-04
6766	-0.50	8.52E-03	8865	-1.20	1.63E-05
6774	-1.80	8.27E-07	8870	-0.80	6.69E-03
6775	0.90	9.30E-03	8875	0.70	2.46E-03
6780	-1.20	1.16E-05	8898	-1.40	8.55E-11
6782	1.00	1.32E-04	8899	-1.20	1.13E-07
6784	1.00	1.09E-05	8908	-0.80	6.96E-04
6788	1.00	8.64E-04	8909	-1.90	5.34E-03
6790	-1.30	6.05E-07	8910	1.30	1.47E-09
6799	1.00	5.86E-06	8915	-1.10	2.40E-04
6818	-0.90	8.68E-05	8916	-1.10	3.02E-04
6819	-1.80	2.51E-03	8921	0.90	2.05E-03
6824	-0.90	1.30E-03	8922	-0.70	2.79E-03
6831	-0.60	6.01E-03	8928	-1.30	2.43E-05
6839	1.30	5.53E-11	8938	0.70	2.22E-04
6843	-0.80	2.92E-03	8941	-1.60	3.28E-03
6862	1.40	5.12E-05	8952	0.90	2.22E-04
6864	-1.10	5.94E-06	8953	-1.30	2.62E-03
6867	-1.00	6.86E-03	8957	0.80	5.60E-04
6869	-1.00	2.85E-05	8960	-1.40	9.27E-08
6894	1.70	6.30E-13	8963	-1.30	8.38E-03
6895	0.80	3.51E-03	8973	0.50	9.15E-03
6900	-2.30	1.21E-04	8974	0.50	8.49E-03
6906	0.60	3.96E-03	8979	-1.20	3.01E-04
6907	0.60	5.17E-03	8980	-0.90	4.57E-04
6910	1.00	2.11E-04	8981	-1.10	1.72E-05
6933	-1.60	1.05E-03	8997	1.30	1.82E-08
6934	-1.60	1.06E-03	8999	1.00	7.99E-04
6936	-1.30	9.73E-06	9011	0.70	5.08E-03
6938	-0.60	3.48E-03	9023	-1.10	1.02E-06
6945	0.70	5.17E-03	9027	-1.00	1.12E-04
6953	1.40	3.20E-11	9040	-0.90	3.80E-04
6954	-0.80	3.38E-03	9041	1.20	1.12E-07
6960	0.80	1.51E-03	9046	-1.40	1.13E-04
6961	0.80	8.81E-03	9049	-3.30	8.32E-05
6962	1.00	1.91E-05	9050	-1.80	2.96E-10
6976	0.80	1.96E-04	9052	1.10	1.40E-06
6980	-1.00	4.42E-05	9055	-1.90	2.12E-10
6986	1.00	2.15E-03	9056	-0.70	4.04E-03
6989	-1.60	2.36E-03	9057	-1.30	1.01E-08
6996	1.10	6.87E-07	9063	-1.10	8.94E-06

6999	-1.60	7.45E-10	9064	-1.00	1.91E-05
7004	0.90	1.11E-04	9069	1.10	2.96E-03
7006	1.60	1.27E-05	9082	-0.90	2.65E-04
7011	-0.90	3.77E-03	9087	-1.10	2.46E-07
7012	-0.90	3.16E-03	9089	-1.10	7.11E-04
7018	-1.00	1.16E-03	9092	-0.60	7.68E-03
7020	0.70	2.56E-03	9099	-1.30	9.81E-04
7028	1.10	4.02E-05	9101	0.70	9.30E-04
7053	-0.50	3.44E-03	9103	1.40	1.37E-06
7055	-1.00	1.55E-04	9113	-1.60	1.88E-04
7056	-1.60	5.24E-05	9123	-0.70	2.21E-03
7063	0.50	2.75E-03	9125	-2.50	1.32E-04
7064	1.20	8.10E-08	9127	-1.40	1.57E-09
7068	0.90	2.71E-04	9129	1.60	2.23E-12
7069	-1.10	3.30E-04	9140	1.00	6.17E-05
7071	0.80	1.72E-03	9146	-0.70	2.88E-03
7072	-0.90	1.19E-04	9151	-0.90	7.34E-03
7073	-0.90	1.19E-04	9159	0.70	1.36E-04
7078	-1.30	2.22E-04	9165	0.70	4.07E-05
7079	0.80	3.06E-04	9166	-1.10	2.43E-05
7082	1.30	6.08E-08	9173	1.60	2.11E-13
7084	-1.30	3.49E-03	9174	0.90	2.91E-03
7086	-1.70	2.54E-09	9182	-0.70	4.25E-03
7091	-0.90	3.92E-04	9183	-1.80	1.13E-14
7094	-0.90	5.76E-03	9188	-0.60	7.20E-03
7098	0.90	4.81E-05	9191	-0.80	3.02E-03
7101	-0.80	7.81E-05	9192	-0.70	5.45E-03
7106	0.90	8.25E-05	9194	0.90	1.47E-03
7108	-1.40	6.43E-04	9201	0.60	9.95E-03
7112	-1.60	1.27E-07	9207	0.90	8.97E-05
7116	1.80	5.64E-17	9209	0.90	5.56E-03
7122	-1.50	1.30E-03	9213	1.10	1.76E-04
7123	1.10	2.08E-05	9221	1.50	1.02E-05
7128	0.70	5.53E-03	9222	1.10	1.71E-03
7129	-1.00	6.47E-05	9225	1.00	8.80E-09
7130	1.20	2.47E-05	9228	0.60	9.88E-03
7138	-1.20	6.67E-04	9229	0.90	2.93E-03
7139	-0.90	2.79E-03	9237	-1.30	3.31E-08
7140	-1.10	4.57E-03	9241	-1.20	1.39E-05
7146	0.70	1.52E-03	9248	1.60	1.07E-12
7147	0.80	5.10E-04	9260	-0.90	2.90E-04
7150	1.10	5.53E-07	9265	1.70	2.28E-07
7151	1.10	4.38E-07	9267	-0.90	9.18E-04

7160	0.90	2.58E-04	9268	0.80	3.52E-03
7161	-1.10	7.55E-05	9278	0.60	7.69E-03
7172	0.80	1.68E-03	9281	-1.70	2.74E-09
7180	-1.30	4.93E-03	9288	-0.90	1.13E-04
7182	-0.60	5.26E-03	9290	-1.50	1.57E-09
7190	1.00	6.10E-05	9291	1.50	2.52E-06
7197	-1.40	9.74E-10	9302	0.80	2.56E-03
7199	-1.10	5.48E-05	9307	0.90	3.97E-04
7202	-1.60	1.05E-03	9314	1.10	5.12E-05
7205	-0.70	2.35E-04	9321	-0.60	7.66E-03
7208	-1.10	4.18E-03	9322	1.00	1.21E-04
7212	0.80	2.38E-04	9323	-1.40	3.02E-05
7213	1.00	1.87E-06	9329	-1.40	8.92E-10
7218	-0.90	1.46E-04	9332	0.90	5.70E-04
7219	-1.30	2.05E-05	9347	-1.20	1.59E-06
7223	-2.00	3.83E-08	9348	-0.50	3.06E-03
7225	-1.30	7.59E-03	9349	-1.20	6.16E-03
7226	1.30	3.56E-04	9355	1.30	5.78E-10
7227	0.70	4.10E-03	9367	-1.00	4.17E-04
7228	0.70	5.01E-03	9368	0.70	1.66E-03
7229	1.20	1.61E-06	9369	1.30	1.40E-08
7232	-1.00	3.74E-05	9373	0.70	5.91E-03
7248	-0.90	2.91E-03	9378	-0.80	2.65E-03
7251	1.30	6.88E-08	9383	-1.10	9.49E-07
7264	0.70	1.31E-03	9390	-2.40	1.92E-05
7271	-1.50	1.02E-10	9394	-1.20	4.80E-04
7292	0.90	2.65E-03	9402	-1.50	1.51E-05
7303	1.60	1.41E-07	9405	-1.60	2.19E-05
7306	0.80	1.71E-03	9406	-0.60	2.56E-04
7310	-1.10	7.96E-06	9407	-1.00	1.20E-03
7311	-0.90	5.28E-05	9415	0.50	6.52E-03
7313	1.20	3.72E-07	9417	0.90	2.73E-03
7316	-0.80	4.24E-03	9430	-0.90	5.50E-05
7319	-1.70	2.64E-03	9437	-1.40	4.70E-03
7326	-1.70	5.68E-03	9447	-1.80	4.93E-03
7329	-1.50	4.48E-03	9453	0.70	8.79E-03
7335	-1.00	4.91E-03	9459	-1.00	6.17E-05
7338	-1.00	2.55E-03	9460	1.20	3.34E-07
7345	1.40	4.56E-07	9468	-0.90	2.64E-03
7355	-0.80	5.15E-04	9471	1.10	1.71E-03
7357	1.10	4.91E-06	9477	1.00	5.65E-05
7361	0.60	5.74E-03	9478	1.00	4.44E-03

7367	-0.90	5.54E-04	9493	-0.90	1.39E-04
7374	1.40	3.45E-11	9500	-0.90	1.05E-03
7390	1.10	3.56E-03	9506	0.80	3.15E-03
7396	0.90	1.05E-04	9507	1.10	6.33E-06
7406	0.80	1.00E-03	9508	1.50	1.90E-10
7415	1.20	1.00E-04	9523	-0.80	7.12E-04
7416	-0.80	1.75E-03	9524	-0.80	7.50E-04
7424	1.00	4.83E-04	9530	-1.50	6.16E-05
7430	-0.70	2.64E-03	9531	-1.40	1.09E-09
7434	1.00	3.32E-07	9544	0.50	1.05E-03
7436	-1.90	7.67E-04	9552	0.90	5.54E-05
7437	0.90	3.15E-04	9557	-0.80	2.46E-03
7441	-0.90	6.48E-04	9558	-0.70	3.84E-03
7444	1.20	7.57E-04	9569	0.90	1.42E-04
7448	-1.80	1.66E-14	9575	1.90	1.24E-14
7453	-1.20	8.63E-07	9576	-1.80	9.46E-03
7460	1.50	4.25E-12	9584	-0.80	2.27E-03
7464	-1.60	5.09E-05	9587	1.10	1.13E-07
7468	1.30	2.70E-08	9590	0.80	2.79E-04
7472	1.20	4.44E-07	9598	-1.10	1.36E-03
7486	-0.80	2.59E-03	9607	-0.90	4.37E-03
7489	0.90	2.95E-03	9619	0.90	5.22E-03
7490	-1.10	9.73E-07	9622	1.00	6.04E-03
7493	0.80	8.34E-04	9624	0.80	5.02E-04
7495	-0.70	9.41E-03	9625	1.10	3.82E-04
7497	1.30	3.76E-09	9633	-2.00	5.65E-03
7498	0.90	6.40E-03	9636	-1.70	1.08E-04
7504	0.90	2.11E-03	9646	-0.90	2.90E-04
7506	-0.70	2.38E-03	9657	0.90	5.29E-04
7507	-0.80	1.99E-03	9660	-1.30	1.76E-05
7515	-2.00	6.80E-07	9665	-1.60	1.56E-06
7516	-1.90	1.23E-06	9668	-0.80	7.10E-04
7520	0.90	2.15E-05	9680	1.40	2.63E-11
7532	-1.20	1.86E-03	9681	1.10	6.70E-05
7549	-1.00	1.35E-04	9685	-1.20	1.67E-03
7560	1.20	6.32E-08	9687	-1.00	2.54E-04
7564	-0.60	4.93E-03	9688	1.20	6.21E-08
7568	1.00	3.54E-05	9697	-0.70	3.36E-03
7569	1.30	1.35E-09	9698	0.90	3.55E-05
7570	-1.80	1.19E-14	9699	-0.90	2.56E-03
7571	1.10	1.32E-10	9700	1.10	4.03E-07
7573	1.20	7.09E-07	9701	-1.10	3.90E-03

7578	-1.50	1.40E-05	9705	1.60	9.10E-04
7580	0.70	3.02E-03	9708	0.80	1.87E-03
7585	-0.90	2.54E-04	9711	-0.60	1.43E-03
7588	-0.70	6.81E-03	9714	1.10	3.98E-07
7594	-0.80	9.36E-03	9716	1.00	3.10E-05
7595	0.70	6.57E-04	9722	-0.70	4.19E-03
7601	-1.60	1.71E-05	9725	-1.00	4.77E-04
7606	1.10	2.80E-07	9730	-1.60	6.41E-05
7629	1.60	9.33E-08	9734	0.80	7.14E-03
7639	-0.70	4.30E-03	9747	-1.50	9.71E-04
7642	-0.60	8.21E-03	9751	0.90	1.86E-03
7644	-1.20	3.40E-08	9767	-3.30	1.98E-03
7655	-0.90	1.67E-03	9771	-1.10	2.49E-05
7659	-0.90	5.56E-03	9779	1.00	8.01E-03
7660	1.10	1.95E-05	9781	-0.80	4.24E-03
7665	1.10	2.38E-07	9806	0.70	2.94E-03
7666	-1.00	5.19E-05	9810	-1.10	2.66E-05
7689	1.10	1.14E-06	9815	0.60	4.78E-03
7690	-1.60	1.64E-09	9817	0.40	8.63E-03
7691	-1.60	1.89E-09	9818	0.50	4.94E-03
7694	-2.20	4.91E-03	9825	-1.80	5.78E-07
7701	-0.80	1.38E-03	9844	1.00	4.22E-04
7721	-1.60	1.41E-05	9847	1.10	3.20E-06
7722	-1.70	2.56E-03	9856	-0.60	5.64E-03
7729	1.00	1.66E-04	9860	-1.00	5.58E-03
7737	-0.90	2.29E-04	9866	-1.20	1.35E-06
7739	0.90	1.54E-04	9867	-1.00	9.14E-05
7742	-1.70	9.14E-10	9868	-1.50	1.24E-05
7745	0.90	6.37E-05	9869	-1.20	5.26E-04
7746	1.50	2.70E-06	9874	-0.70	6.13E-03
7750	1.30	3.99E-08	9897	-1.10	1.26E-04
7751	1.30	4.67E-08	9917	-1.30	2.41E-04
7753	0.80	2.73E-03	9921	0.90	3.35E-04
7755	0.60	4.19E-04	9924	0.90	8.44E-05
7767	-1.10	3.26E-04	9925	0.70	6.93E-03
7774	1.00	8.82E-06	9927	1.40	1.14E-07
7777	-1.80	2.90E-12	9932	-1.00	2.38E-03
7785	-1.00	6.11E-03	9945	-0.90	1.43E-04
7790	1.10	3.15E-06	9946	1.60	5.52E-12
7793	-0.60	8.07E-03	9950	-1.20	9.14E-05
7807	-0.90	3.36E-03	9952	1.20	2.35E-04
7808	-1.50	5.02E-03	9956	1.00	1.49E-04
7810	-1.00	1.39E-04	9957	-1.20	4.20E-05

7816	-0.70	8.53E-03	9959	1.40	2.63E-11
7821	-0.80	6.02E-03	9961	0.80	1.50E-04
7822	-1.80	4.23E-13	9962	-1.00	2.08E-04
7823	0.80	1.89E-04	9964	1.30	7.58E-08
7827	-0.90	3.99E-04	9973	-0.80	6.42E-03
7828	-2.00	1.75E-07	9975	-0.70	2.66E-04
7837	1.10	3.04E-05	9993	-0.90	1.01E-06
7843	0.80	3.04E-03	9994	1.40	1.99E-09
7854	-2.20	1.65E-05	9995	1.40	1.79E-10
7856	-1.30	1.00E-07	9996	-0.80	3.63E-03
7861	-1.20	3.17E-03	10001	-0.70	6.21E-03
7862	1.40	3.05E-09	10010	-0.60	9.14E-03
7863	1.30	2.32E-08	10034	0.70	3.51E-03
7866	0.50	6.71E-03	10046	0.60	5.23E-03
7871	1.50	1.57E-10	10059	-1.10	1.53E-05
7874	-0.80	2.45E-03	10062	-1.00	3.01E-06
7877	-0.70	7.28E-03	10066	-0.90	3.54E-05
7879	-1.70	4.27E-08	10067	-0.50	1.97E-03
7885	0.90	1.27E-03	10079	1.40	4.56E-06
7891	-2.00	6.43E-11	10080	-0.90	4.61E-04
7894	0.70	4.83E-03	10081	-0.90	3.91E-04
7900	-1.40	1.31E-03	10082	-0.80	6.60E-04
7914	0.80	1.04E-03	10084	0.80	1.88E-03
7916	0.70	3.75E-03	10087	-1.10	6.99E-05
7921	-1.20	3.35E-03	10092	-0.90	8.73E-05
7927	1.00	5.18E-05	10095	0.80	6.34E-06
7932	0.90	1.96E-04	10098	0.80	7.74E-03
7937	0.80	1.21E-04	10102	1.00	1.98E-05
7940	1.10	2.26E-07	10103	-1.10	2.26E-05
7941	1.20	3.88E-07	10104	-0.80	1.10E-03
7942	-0.80	1.22E-03	10110	0.70	6.51E-03
7946	0.90	9.36E-03	10114	1.50	1.51E-05
7947	1.00	2.58E-05	10117	-1.30	1.56E-06
7948	-0.80	1.95E-03	10124	-1.30	1.18E-07
7950	-0.90	3.88E-04	10127	-1.00	5.03E-03
7953	0.80	3.17E-04	10138	-2.10	4.25E-03
7954	-1.50	2.65E-03	10160	1.20	4.71E-07
7956	-1.10	1.22E-03	10161	-1.40	6.00E-04
7965	1.30	5.33E-09	10162	-1.10	5.03E-06
7966	-1.10	8.21E-05	10173	1.00	4.74E-04
7970	-1.00	7.75E-05	10174	0.60	4.82E-03
7976	-0.90	3.23E-04	10175	0.60	4.40E-03

7981	0.80	3.51E-03	10176	0.70	1.93E-03
7982	1.10	8.32E-06	10177	1.40	3.27E-10
8006	-1.10	5.48E-05	10183	-2.50	6.66E-03
8008	-1.20	4.60E-05	10186	-1.30	8.83E-04
8009	-1.60	1.93E-09	10198	1.10	1.22E-07
8012	-1.70	8.64E-05	10199	0.80	1.61E-04
8018	1.20	2.32E-04	10200	1.50	4.13E-12
8024	-1.60	7.24E-09	10206	-0.60	8.26E-03
8025	-2.50	4.69E-07	10208	0.70	4.46E-03
8032	-0.60	3.54E-03	10228	0.90	7.19E-04
8040	1.00	3.55E-04	10246	0.60	9.91E-03
8054	1.10	6.04E-06	10247	1.30	1.56E-08
8055	1.10	1.17E-06	10253	0.90	5.72E-04
8062	-1.60	5.64E-08	10257	0.80	5.25E-03
8063	-1.60	4.27E-08	10261	0.70	7.80E-03
8073	0.70	7.19E-03	10267	1.10	4.61E-04
8075	-0.60	5.63E-03	10268	-0.70	6.59E-03
8084	0.90	3.03E-05	10283	-0.70	8.13E-03
8085	-0.90	1.18E-03	10289	-0.90	2.16E-03
8086	0.60	9.49E-03	10291	-0.80	2.41E-04
8090	1.00	3.79E-04	10298	1.50	4.24E-06
8094	0.70	2.08E-03	10299	1.30	1.58E-09
8098	0.60	7.83E-03	10302	0.80	8.23E-04
8102	-0.70	1.91E-03	10305	-0.80	5.81E-04
8105	0.70	2.28E-03	10317	-1.10	2.80E-04
8110	-1.80	4.56E-05	10341	-1.20	1.24E-05
8111	-1.00	7.01E-05	10343	0.80	1.41E-04
8118	0.70	6.86E-03	10353	1.00	3.92E-03
8142	-1.50	3.70E-09	10363	0.70	3.07E-03
8143	-1.50	3.04E-09	10368	0.70	5.18E-03
8146	0.90	1.07E-04	10370	1.60	9.69E-14
8147	1.20	8.19E-08	10375	-0.80	4.62E-03
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8152	-1.30	5.27E-07	10420	0.90	2.06E-04
8159	-0.80	1.49E-03	10422	1.50	1.12E-06
8163	-1.80	1.19E-14	10423	1.20	1.74E-06
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8166	1.40	3.23E-10	10438	0.90	4.88E-05
8167	-1.00	1.18E-03	10439	-0.60	7.31E-03
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8185	0.90	2.60E-03	10449	-1.30	3.04E-06

8186	1.00	8.21E-04	10454	0.90	6.01E-05
8188	0.70	3.86E-03	10464	0.80	3.30E-03
8192	1.20	2.98E-07	10468	-0.60	2.92E-03
8194	-1.60	6.07E-05	10474	-0.90	2.42E-03
8197	-1.90	5.55E-03	10475	1.10	8.78E-03
8198	1.10	7.05E-04	10478	1.30	8.26E-05
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8280	-0.90	1.66E-04	10576	-1.00	2.82E-05
8285	0.80	3.18E-04	10593	0.70	8.33E-03
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8375	1.50	7.56E-05	10731	-1.70	4.26E-03
8382	1.20	1.81E-05	10733	1.20	6.39E-07
8386	0.70	3.04E-03	10734	1.50	9.73E-10

8388	0.80	4.74E-04	10738	-2.00	6.58E-06
8391	-0.70	5.27E-03	10744	-0.90	7.37E-03
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8433	-2.00	5.20E-12	10815	-0.90	6.18E-04
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7798	0.55	5.00E-02	14975	0.67	5.65E-03
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9076	-6.53	5.00E-02	15104	0.79	1.51E-03
9346	0.36	5.00E-02	15105	0.67	6.15E-03
9611	0.19	5.00E-02	15110	-0.97	3.97E-04
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14655	-6.64	5.00E-02	4513	-0.41	5.00E-02
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14921	-1.67	6.78E-05	14382	0.86	7.68E-05
14924	1.15	3.72E-04	14389	-0.76	1.25E-03
14932	-1.80	1.55E-04	14399	0.68	4.23E-03
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14948	-1.08	7.46E-05	14407	0.95	1.02E-03
14957	0.87	2.86E-04	14409	-0.52	7.42E-03
14966	-1.63	1.17E-09	14415	-0.64	8.65E-03
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12699	-0.87	2.55E-03	13977	0.74	3.00E-03
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12732	0.61	8.22E-03	13998	1.09	5.99E-05
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12746	0.69	2.55E-03	14019	0.92	2.11E-05
12747	-1.57	2.38E-05	14030	-0.81	3.23E-03
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12766	-1.15	3.29E-03	14052	-0.75	3.49E-03
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12799	1.43	4.32E-12	14086	-0.83	2.83E-04
12827	-2.12	1.75E-05	14090	-1.17	3.25E-03
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12535	1.78	7.07E-10	13676	1.14	8.15E-05

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12571	-0.92	3.46E-03
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13767	-0.83	6.56E-04
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13788	-1.36	7.35E-04
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13795	1.33	4.98E-09
13798	-1.49	4.19E-06
13826	0.92	1.10E-04
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13575	1.82	5.76E-06
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11581	-0.80	9.50E-04
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11600	-0.70	1.41E-03
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11603	0.80	7.67E-03
11605	-0.70	1.97E-03
11628	-0.90	3.75E-04
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-0.20	-0.20
0.11	0.11
-0.26	-0.26
-0.14	-0.14
-0.15	-0.15
-0.09	-0.09
0.10	0.10
-0.19	-0.19
0.10	0.10
0.12	0.12
0.09	0.09
-0.07	-0.07
0.09	0.09
-0.20	-0.20

-0.17	-0.17
-0.09	-0.09
0.07	0.07
-0.10	-0.10
-0.12	-0.12
-0.13	-0.13
-0.13	-0.13
-0.20	-0.20
-0.14	-0.14
-0.11	-0.11
0.24	0.24
0.08	0.08
-0.27	-0.27
-0.24	-0.24
-0.21	-0.21
0.15	0.15
-0.20	-0.20
-0.09	-0.09
-0.11	-0.11
0.08	0.08
-0.08	-0.08
0.14	0.14
0.15	0.15
-0.10	-0.10
-0.18	-0.18
0.09	0.09
-0.16	-0.16
0.16	0.16
0.13	0.13
-0.15	-0.15
-0.09	-0.09
0.07	0.07
-0.24	-0.24
-0.12	-0.12
-0.21	-0.21
0.10	0.10
0.09	0.09
-0.25	-0.25
0.09	0.09
0.16	0.16
-0.10	-0.10
0.10	0.10
-0.15	-0.15

0.08	0.08
-0.18	-0.18
-0.14	-0.14
-0.14	-0.14
0.10	0.10
-0.10	-0.10
0.10	0.10
0.13	0.13
-0.19	-0.19
0.09	0.09
0.15	0.15
0.08	0.08
-0.24	-0.24
-0.19	-0.19
0.09	0.09
-0.21	-0.21
-0.13	-0.13
-0.12	-0.12
-0.08	-0.08
0.13	0.13
0.12	0.12
0.10	0.10
-0.17	-0.17
-0.07	-0.07
-0.16	-0.16
-0.21	-0.21
0.07	0.07
0.11	0.11
0.15	0.15
-0.18	-0.18
0.23	0.23
0.18	0.18
-0.16	-0.16
0.07	0.07
-0.11	-0.11
-0.18	-0.18
-0.11	-0.11
0.10	0.10
0.08	0.08
-0.20	-0.20
0.09	0.09
0.10	0.10
-0.08	-0.08

-0.08	-0.08
0.13	0.13
0.11	0.11
-0.14	-0.14
-0.11	-0.11
0.15	0.15
-0.26	-0.26
0.14	0.14
0.15	0.15
0.10	0.10
-0.24	-0.24
-0.17	-0.17
0.09	0.09
-0.30	-0.30
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0.17	0.17
0.15	0.15
-0.15	-0.15
-0.13	-0.13
-0.19	-0.19
0.09	0.09
-0.16	-0.16
-0.09	-0.09
0.14	0.14
0.19	0.19
-0.09	-0.09
0.09	0.09
0.08	0.08
0.10	0.10
0.07	0.07
0.08	0.08
-0.14	-0.14
-0.09	-0.09
-0.17	-0.17
0.09	0.09
0.10	0.10
0.12	0.12
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0.10	0.10
-0.08	-0.08
-0.08	-0.08
-0.16	-0.16
0.23	0.23

0.15	0.15
0.08	0.08
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-0.17	-0.17
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-0.15	-0.15
0.17	0.17
0.14	0.14
0.11	0.11
-0.23	-0.23
-0.09	-0.09
0.17	0.17
0.10	0.10
0.08	0.08
-0.23	-0.23
0.15	0.15
-0.13	-0.13
-0.12	-0.12
-0.11	-0.11
-0.12	-0.12
-0.10	-0.10
0.17	0.17
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0.21	0.21
-0.19	-0.19
0.07	0.07
0.13	0.13
-0.09	-0.09
-0.08	-0.08
-0.07	-0.07
0.09	0.09
0.12	0.12
0.10	0.10
-0.15	-0.15
-0.07	-0.07
0.12	0.12
0.09	0.09
-0.14	-0.14
-0.11	-0.11
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-0.16	-0.16
0.16	0.16
-0.08	-0.08

-0.15	-0.15
-0.16	-0.16
-0.10	-0.10
-0.12	-0.12
-0.12	-0.12
0.10	0.10
-0.25	-0.25
-0.12	-0.12
-0.12	-0.12
0.11	0.11
-0.14	-0.14
0.18	0.18
-0.14	-0.14
-0.09	-0.09
-0.12	-0.12
-0.21	-0.21
-0.12	-0.12
0.12	0.12
-0.12	-0.12
0.08	0.08
0.18	0.18
-0.19	-0.19
0.09	0.09
0.13	0.13
-0.07	-0.07
-0.16	-0.16
0.25	0.25
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-0.10	-0.10
-0.11	-0.11
-0.07	-0.07
0.08	0.08
0.10	0.10
-0.15	-0.15
-0.08	-0.08
-0.18	-0.18
0.21	0.21
-0.20	-0.20
-0.15	-0.15
-0.07	-0.07
0.12	0.12
0.08	0.08
0.15	0.15

-0.09	-0.09
0.15	0.15
0.07	0.07
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0.15	0.15
-0.13	-0.13
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0.13	0.13
0.10	0.10
-0.14	-0.14
-0.08	-0.08
-0.21	-0.21
-0.19	-0.19
-0.09	-0.09
-0.16	-0.16
0.10	0.10
-0.13	-0.13
0.07	0.07
-0.16	-0.16
-0.16	-0.16
-0.19	-0.19
0.12	0.12
0.11	0.11
-0.08	-0.08
0.08	0.08
0.11	0.11
0.07	0.07
-0.08	-0.08
0.15	0.15
-0.13	-0.13
0.08	0.08
-0.08	-0.08
-0.18	-0.18
-0.07	-0.07
0.08	0.08
0.15	0.15
-0.21	-0.21
0.17	0.17

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0.13	0.13
0.08	0.08
-0.18	-0.18
-0.08	-0.08
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0.09	0.09
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0.14	0.14
0.11	0.11
-0.20	-0.20
0.15	0.15
0.15	0.15
0.09	0.09
0.17	0.17
-0.11	-0.11
-0.11	-0.11
0.12	0.12
-0.17	-0.17
-0.15	-0.15
-0.23	-0.23
0.07	0.07
0.11	0.11
0.08	0.08
0.13	0.13
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-0.26	-0.26
-0.14	-0.14
-0.12	-0.12
0.09	0.09
0.12	0.12
0.08	0.08
-0.15	-0.15
0.14	0.14
0.12	0.12
-0.07	-0.07
-0.16	-0.16
-0.18	-0.18
0.12	0.12
-0.13	-0.13
-0.09	-0.09
-0.10	-0.10
-0.08	-0.08

0.12	0.12
-0.11	-0.11
-0.16	-0.16
-0.19	-0.19
-0.19	-0.19
0.11	0.11
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-0.11	-0.11
-0.23	-0.23
0.13	0.13
-0.11	-0.11
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0.12	0.12
-0.17	-0.17
0.15	0.15
-0.13	-0.13
-0.27	-0.27
0.07	0.07
-0.25	-0.25
-0.07	-0.07
0.09	0.09
-0.16	-0.16
-0.17	-0.17
0.14	0.14
0.12	0.12
0.12	0.12
0.09	0.09
0.10	0.10
0.12	0.12
0.07	0.07
0.11	0.11
0.16	0.16
-0.18	-0.18
-0.16	-0.16
0.10	0.10
0.10	0.10
-0.20	-0.20
-0.15	-0.15
-0.15	-0.15
-0.33	-0.33
-0.09	-0.09
-0.15	-0.15
-0.37	-0.37

-0.07	-0.07
-0.13	-0.13
-0.15	-0.15
-0.09	-0.09
-0.09	-0.09
-0.16	-0.16
-0.24	-0.24
0.07	0.07
-0.18	-0.18
-0.11	-0.11
0.10	0.10
-0.12	-0.12
0.13	0.13
-0.12	-0.12
0.13	0.13
-0.07	-0.07
0.08	0.08
-0.08	-0.08
0.07	0.07
-0.17	-0.17
-0.09	-0.09
0.08	0.08
-0.14	-0.14
-0.14	-0.14
-0.13	-0.13
0.13	0.13
0.09	0.09
-0.18	-0.18
-0.22	-0.22
0.11	0.11
0.10	0.10
-0.21	-0.21
0.17	0.17
0.19	0.19
0.15	0.15
-0.15	-0.15
-0.15	-0.15
-0.16	-0.16
0.14	0.14
0.12	0.12
0.07	0.07
-0.13	-0.13
-0.09	-0.09

0.08

0.08

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TABLE 11 - GENETIC MARKERS FOR TEMPERAMENT

A	B	C	A	B	C	A	B	C
2	0.90	2.40E-04	2473	0.90	4.37E-04	4920	0.60	1.68E-04
3	0.70	4.94E-05	2476	0.70	6.76E-05	4924	0.80	1.26E-06
22	-0.70	6.05E-05	2484	0.90	3.30E-09	4929	-0.60	1.79E-03
26	0.50	5.35E-03	2485	1.00	2.16E-10	4936	-0.70	2.40E-03
35	-0.50	4.59E-03	2489	0.70	6.34E-04	4937	0.80	2.42E-06
38	-1.80	1.13E-04	2491	1.20	9.71E-14	4951	0.40	9.83E-03
39	-1.90	4.56E-05	2497	0.50	4.42E-03	4957	0.60	1.04E-03
52	-0.70	2.64E-04	2522	-0.40	7.48E-03	4958	0.90	4.63E-08
55	0.90	2.39E-03	2523	-0.50	5.83E-03	4961	-0.90	6.13E-03
57	0.60	6.84E-04	2534	1.40	1.29E-06	4973	0.70	2.10E-04
63	-0.70	5.02E-05	2535	0.90	2.79E-06	4982	-0.80	1.72E-05
65	-0.60	8.06E-03	2537	0.40	6.00E-03	4991	-0.50	5.90E-03
67	0.80	6.01E-06	2543	0.70	6.88E-03	4994	-0.60	1.59E-03
77	-0.60	5.14E-04	2553	0.70	1.01E-04	4995	-0.90	6.38E-03
86	1.20	3.58E-05	2568	0.70	9.04E-05	5000	0.50	8.41E-03
97	-0.60	1.18E-03	2580	0.70	7.65E-04	5004	-1.80	1.04E-04
99	0.70	6.74E-05	2591	-0.60	1.43E-03	5005	-1.80	1.06E-04
100	-0.50	9.45E-03	2595	1.10	1.04E-10	5010	-0.80	7.20E-03
114	-0.70	1.74E-03	2604	-0.80	2.56E-04	5013	0.60	2.41E-04
118	-0.70	2.40E-04	2608	1.10	9.62E-11	5016	-0.60	1.19E-05
131	0.80	2.37E-06	2613	-1.00	8.28E-07	5025	1.20	2.33E-12
141	-0.60	1.08E-03	2620	0.70	2.45E-06	5045	0.40	7.18E-04
152	0.60	2.80E-03	2633	-0.80	1.62E-03	5046	-0.80	1.47E-06
154	-0.80	2.16E-03	2640	1.20	8.37E-04	5055	0.60	9.21E-03
159	-1.10	1.69E-05	2642	0.60	7.55E-04	5061	-0.70	1.90E-03
171	1.20	1.61E-12	2668	-0.70	2.89E-04	5069	0.80	1.16E-05
176	-0.90	5.60E-07	2684	0.60	6.79E-03	5071	0.60	6.04E-04
181	0.50	1.17E-03	2686	0.60	3.12E-03	5079	1.00	2.66E-09
183	-0.50	5.88E-03	2688	-0.80	4.96E-05	5088	0.60	8.06E-08
186	0.60	9.14E-04	2696	0.90	4.18E-08	5093	-1.00	1.25E-08
189	-0.70	4.70E-03	2698	0.60	5.45E-04	5117	0.90	9.36E-04
194	0.60	2.70E-04	2703	-1.00	2.07E-04	5124	-0.60	3.50E-03
196	0.80	3.64E-06	2705	-0.50	4.21E-03	5133	-1.10	1.89E-03
200	-0.90	3.20E-06	2706	-0.70	2.62E-03	5134	-0.80	2.05E-05
209	0.60	5.37E-04	2721	0.90	1.09E-03	5148	-0.90	3.82E-05
212	-1.10	3.89E-03	2733	0.90	4.99E-03	5164	-0.60	6.51E-04
217	1.10	3.05E-08	2735	1.00	1.22E-08	5172	-0.70	2.61E-05
219	0.70	2.01E-04	2736	0.70	3.73E-05	5177	-0.60	2.93E-03
221	-0.80	6.90E-05	2740	0.40	7.93E-03	5183	-1.40	2.84E-03
226	-1.00	4.63E-03	2746	0.60	3.30E-06	5206	0.50	7.91E-03

7774	1.03	7.44E-08	10098	0.87	2.77E-04
7777	-1.60	6.92E-17	10102	1.19	9.62E-09
7781	0.50	4.69E-03	10103	-0.66	2.85E-04
7784	0.75	2.59E-04	10104	-0.64	2.58E-04
7785	-0.97	1.33E-03	10110	0.82	4.84E-06
7788	0.72	2.14E-04	10114	1.84	6.24E-16
7789	0.74	3.81E-05	10115	-0.61	1.63E-03
7807	-0.70	1.80E-03	10117	-1.08	1.33E-08
7808	-1.66	1.61E-03	10119	-0.63	3.46E-04
7810	-1.09	8.49E-09	10123	0.34	6.58E-03
7815	-0.81	1.82E-04	10124	-1.58	4.70E-17
7816	-0.89	3.36E-06	10127	-1.13	8.08E-05
7822	-1.84	1.89E-21	10132	1.03	1.07E-07
7823	0.83	3.50E-07	10134	-1.34	1.40E-03
7826	1.01	1.25E-07	10138	-1.44	1.74E-04
7827	-1.04	7.31E-07	10139	-0.78	1.49E-05
7828	-1.74	3.07E-11	10148	-1.04	1.73E-07
7830	-0.55	2.34E-03	10157	-0.57	1.40E-03
7837	0.90	1.11E-05	10160	1.53	4.02E-20
7841	0.74	1.96E-03	10161	-1.55	1.72E-07
7843	0.89	2.49E-06	10162	-1.65	5.74E-19
7849	-0.83	1.36E-03	10163	1.05	2.62E-08
7854	-2.15	2.47E-07	10171	-1.13	5.55E-03
7856	-1.06	7.41E-07	10176	0.92	3.22E-07
7857	-0.87	2.31E-03	10177	1.64	1.49E-22
7858	-1.04	1.93E-08	10183	-2.21	6.32E-04
7860	-1.59	4.99E-10	10187	-0.69	2.18E-05
7861	-1.12	3.87E-05	10194	-0.75	9.63E-05
7862	0.70	8.96E-05	10195	0.96	1.48E-04
7863	1.27	2.75E-12	10198	1.03	7.46E-09
7868	0.72	5.46E-04	10199	1.31	2.22E-15
7871	1.91	3.80E-26	10200	1.84	3.82E-27
7876	-0.95	1.31E-06	10208	0.81	1.19E-05
7877	-0.64	5.73E-04	10210	0.66	8.04E-03
7879	-1.63	6.83E-12	10212	-1.47	5.17E-08
7883	0.76	9.52E-04	10225	0.89	2.96E-03
7885	0.81	1.25E-04	10226	0.70	3.95E-05

7888	0.58	1.61E-03	10233	0.50	9.56E-03
7889	-0.95	8.65E-08	10240	0.69	4.40E-03
7891	-1.22	5.80E-09	10247	0.49	7.13E-03
7900	-1.96	1.24E-10	10248	0.51	2.58E-03
7901	0.71	6.80E-05	10253	0.68	9.01E-04
7902	-0.42	8.59E-03	10254	-1.18	5.26E-03
7910	1.13	2.24E-05	10257	0.88	3.36E-04
7914	0.59	8.12E-04	10258	-0.80	3.87E-04
7916	0.59	1.06E-03	10268	-0.78	2.43E-05
7921	-1.00	5.39E-04	10272	1.11	5.85E-07
7926	0.66	5.80E-04	10274	-1.01	1.88E-05
7927	1.08	2.56E-09	10277	-0.74	6.57E-03
7932	0.64	4.69E-04	10282	1.44	5.91E-06
7937	0.59	8.42E-05	10283	-1.20	5.16E-07
7941	0.98	6.22E-07	10286	-1.03	3.10E-06
7942	-1.03	3.73E-08	10289	-1.14	6.29E-05
7947	0.53	2.87E-03	10291	-0.79	1.13E-05
7949	-0.80	1.60E-04	10293	0.94	3.55E-03
7950	-1.05	3.06E-08	10298	1.39	9.07E-09
7953	0.53	5.71E-03	10299	1.17	3.49E-09
7954	-1.05	1.18E-03	10300	-0.76	2.12E-04
7956	-1.67	2.45E-10	10302	0.67	1.30E-04
7964	0.71	5.50E-05	10304	-0.83	7.33E-05
7965	1.65	2.97E-22	10305	-1.19	5.75E-10
7966	-1.54	7.94E-12	10307	-1.48	2.76E-03
7974	1.14	9.00E-07	10311	-2.33	3.39E-05
7976	-0.56	1.35E-03	10315	-1.25	3.67E-06
7978	-1.14	9.30E-04	10317	-0.85	5.20E-05
7981	0.57	4.35E-03	10333	1.20	1.18E-11
7982	1.53	2.29E-16	10341	-1.49	7.93E-12
8002	-0.89	8.14E-04	10343	0.85	3.87E-06
8006	-0.81	1.48E-05	10346	-1.63	3.64E-03
8007	-1.65	1.39E-03	10353	1.08	3.29E-05
8008	-1.19	6.20E-07	10355	0.60	1.89E-03
8009	-1.38	4.34E-12	10358	-1.02	1.85E-05
8012	-1.94	1.14E-07	10362	-0.60	4.29E-03
8013	-0.95	6.01E-03	10363	1.05	1.39E-09

8018	1.33	5.44E-09	10369	-0.77	1.50E-03
8024	-1.44	2.16E-12	10370	1.31	6.68E-16
8025	-3.01	2.43E-16	10372	-0.50	2.48E-04
8026	0.82	5.03E-03	10373	-0.97	4.42E-07
8032	-1.40	2.99E-16	10374	-0.62	1.92E-04
8037	-1.05	4.73E-05	10375	-0.69	3.04E-03
8039	-0.56	3.65E-03	10386	-0.68	1.72E-04
8040	1.63	1.54E-14	10387	-0.84	4.40E-06
8044	0.55	1.47E-05	10391	0.56	4.03E-03
8046	1.30	5.52E-11	10392	0.51	9.73E-03
8048	-0.67	1.51E-03	10396	-1.59	5.53E-08
8052	0.68	1.85E-04	10400	-0.74	4.38E-03
8054	0.59	8.91E-04	10402	-1.08	2.09E-09
8055	1.10	1.16E-08	10407	-0.75	3.36E-03
8060	-0.67	2.11E-04	10408	-0.59	2.41E-03
8062	-1.02	2.54E-06	10409	0.58	1.45E-03
8063	-1.08	1.07E-06	10418	0.53	8.48E-03
8064	-0.75	7.84E-04	10419	1.16	1.09E-04
8065	-0.71	3.80E-03	10422	1.39	3.26E-08
8066	-0.61	6.83E-03	10423	1.35	2.62E-13
8070	0.57	1.03E-03	10426	-0.68	3.15E-04
8073	0.83	1.77E-04	10427	-1.23	3.77E-05
8075	-0.94	2.46E-07	10436	-1.44	2.76E-04
8083	-0.61	5.48E-04	10438	1.51	9.68E-21
8084	0.84	8.61E-07	10444	-1.49	4.76E-13
8085	-1.02	1.39E-06	10446	-0.92	1.66E-03
8086	0.71	3.10E-05	10448	-1.04	1.23E-07
8087	-0.63	8.07E-04	10449	-0.74	9.72E-05
8088	0.76	5.23E-04	10454	1.26	1.33E-14
8089	1.28	5.57E-08	10456	-0.99	3.24E-04
8090	1.42	4.05E-12	10457	0.45	4.80E-04
8094	0.93	1.02E-06	10461	-1.06	8.44E-06
8097	-0.61	1.01E-03	10464	0.80	2.56E-03
8098	0.59	1.49E-03	10468	-0.54	8.24E-04
8102	-1.21	1.76E-11	10474	-0.73	1.95E-03
8105	1.28	1.13E-11	10478	0.86	2.53E-03
8108	0.63	4.32E-04	10480	-1.24	1.67E-08
8109	0.58	1.14E-03	10483	1.13	2.13E-04

8110	-1.89	2.75E-09	10486	-0.86	6.94E-03
8111	-1.17	7.55E-10	10487	-1.38	3.21E-09
8119	-0.68	4.10E-05	10488	0.51	9.55E-03
8127	1.33	8.66E-16	10492	1.06	6.58E-08
8133	-0.80	1.27E-05	10494	1.10	1.03E-13
8134	0.64	2.01E-03	10498	-1.63	2.22E-05
8142	-1.23	7.57E-10	10505	0.99	3.17E-09
8143	-1.21	8.85E-10	10515	-1.16	3.55E-04
8145	-0.71	8.69E-05	10520	-3.07	9.95E-12
8146	0.93	3.17E-08	10524	-0.57	2.34E-03
8147	1.48	6.19E-17	10537	-0.74	1.08E-04
8149	1.09	3.17E-10	10538	0.67	2.16E-03
8150	1.22	2.89E-09	10539	0.75	1.61E-05
8152	-0.85	4.07E-06	10542	0.35	5.09E-03
8155	-1.13	3.12E-03	10543	-1.08	4.84E-05
8159	-0.81	1.99E-05	10547	-1.16	4.84E-05
8160	-0.81	5.92E-05	10548	0.99	3.23E-08
8161	0.68	8.57E-05	10550	-0.60	1.15E-03
8163	-1.76	2.03E-23	10554	-1.17	8.68E-06
8164	1.53	5.08E-05	10555	0.98	2.19E-05
8166	1.45	1.13E-15	10561	-1.23	6.37E-06
8167	-0.84	1.18E-04	10563	-0.84	7.57E-03
8168	-1.25	6.85E-12	10565	-0.85	1.37E-03
8174	0.85	1.74E-03	10569	0.69	2.96E-04
8183	-0.54	5.62E-03	10570	-0.82	4.09E-05
8184	-1.00	1.80E-06	10576	-1.42	3.63E-16
8188	0.74	4.25E-05	10582	0.39	2.68E-03
8189	-0.75	1.85E-04	10584	-1.03	9.59E-08
8192	1.64	2.66E-18	10590	-0.64	2.52E-04
8193	0.91	8.43E-06	10593	0.99	2.70E-08
8194	-1.48	8.24E-07	10599	-1.24	5.58E-06
8197	-1.08	3.92E-03	10600	0.74	1.46E-03
8198	0.95	1.39E-04	10601	-1.46	9.68E-13
8202	1.82	4.81E-06	10603	-0.56	2.76E-03
8203	-1.42	5.45E-04	10604	-2.17	2.52E-15
8206	-1.05	1.74E-09	10608	-1.08	3.28E-08
8208	0.41	3.19E-03	10612	-0.67	9.41E-03

8212	-0.80	5.65E-04	10613	-1.15	6.00E-05
8219	1.32	2.05E-08	10618	0.71	1.37E-05
8220	-1.55	1.51E-06	10622	-0.88	4.58E-03
8233	-1.48	3.58E-17	10625	1.00	4.35E-08
8235	-1.21	6.81E-11	10627	-0.71	2.02E-04
8237	1.05	9.83E-09	10630	0.77	1.87E-04
8238	1.09	2.37E-09	10633	-1.10	1.52E-07
8239	0.76	1.37E-04	10634	1.21	9.69E-09
8240	-1.03	1.30E-07	10649	1.25	1.17E-12
8243	-1.29	2.09E-07	10655	-0.67	1.17E-04
8244	-1.06	2.56E-08	10660	-1.28	2.05E-03
8259	0.86	5.13E-12	10666	-1.19	1.24E-05
8260	1.40	8.98E-16	10668	-2.27	1.22E-09
8261	1.88	1.21E-29	10674	-0.89	1.58E-06
8264	-1.43	6.24E-06	10677	1.04	1.77E-08
8271	0.49	8.74E-03	10681	-0.58	1.67E-03
8272	0.65	4.01E-03	10688	-1.80	1.97E-21
8274	0.51	2.93E-03	10696	-0.90	1.44E-04
8275	-0.80	2.93E-03	10706	-0.99	9.64E-04
8276	-1.63	1.20E-19	10711	-0.93	1.67E-07
8277	-1.24	2.37E-04	10717	-0.80	1.80E-04
8280	-0.95	1.00E-07	10722	0.63	2.78E-03
8285	0.79	1.02E-05	10724	-2.29	2.39E-08
8287	-1.11	4.32E-11	10730	-0.74	7.10E-05
8289	-0.81	8.52E-06	10731	-1.41	3.76E-05
8293	-0.84	2.62E-06	10733	0.95	1.46E-06
8298	0.70	5.64E-05	10734	1.49	2.82E-16
8300	-1.06	4.05E-07	10738	-1.51	1.00E-07
8308	1.21	4.76E-04	10741	-0.70	9.07E-03
8312	0.56	1.03E-03	10744	-0.77	2.48E-03
8318	-1.17	1.51E-10	10752	-0.73	6.44E-05
8321	-1.64	8.99E-08	10758	-2.18	2.78E-09
8330	0.55	1.11E-03	10760	-0.73	9.99E-05
8332	-1.09	2.36E-06	10763	-2.23	2.20E-06
8333	0.92	5.01E-07	10774	1.12	3.77E-05
8336	-0.89	5.94E-05	10775	-0.94	1.63E-07
8337	-0.48	8.03E-03	10778	1.32	1.37E-14
8340	-1.02	8.90E-05	10791	-0.77	3.84E-05

8341	0.76	2.37E-05	10792	-0.76	1.72E-04
8343	0.69	2.31E-04	10798	0.91	1.19E-07
8348	0.85	7.18E-06	10802	1.25	2.73E-08
8349	-1.01	4.28E-05	10807	-1.00	6.96E-08
8351	1.34	1.30E-15	10811	-1.55	2.08E-04
8353	-1.19	1.04E-11	10818	-1.12	8.28E-09
8358	-0.71	6.33E-04	10828	-0.53	4.56E-03
8359	0.89	4.75E-07	10837	1.08	2.07E-09
8361	0.80	6.73E-06	10838	1.23	5.71E-13
8365	-1.13	9.04E-08	10840	-0.82	6.02E-05
8366	-1.13	9.09E-08	10848	-0.84	9.14E-03
8367	-0.63	1.95E-05	10850	-0.52	2.78E-03
8368	-0.82	4.84E-06	10864	0.71	6.87E-05
8377	0.83	7.04E-06	10865	0.76	1.51E-05
8383	0.62	8.61E-04	10866	0.67	1.38E-03
8387	0.82	2.11E-04	10872	-2.09	3.67E-18
8388	0.92	1.12E-07	10877	0.87	1.09E-03
8391	-1.10	9.76E-10	10883	-0.60	1.46E-03
8395	-0.98	2.01E-08	10888	-1.45	2.41E-11
8398	1.26	5.08E-12	10889	-0.61	3.32E-04
8402	-1.21	6.35E-06	10891	-0.73	4.11E-04
8403	0.57	1.66E-03	10897	1.58	2.51E-07
8411	-0.56	3.87E-03	10900	-0.62	1.69E-03
8412	-0.56	3.71E-03	10907	0.68	3.60E-03
8413	0.73	2.28E-05	10908	1.00	1.14E-07
8419	1.02	8.37E-05	10911	-0.90	6.94E-07
8420	0.94	1.44E-08	10913	-0.93	1.83E-07
8421	-1.77	3.73E-14	10917	-1.49	3.09E-09
8423	-1.15	4.01E-08	10923	-1.96	3.68E-08
8425	-1.31	3.06E-11	10924	1.30	4.15E-13
8426	-0.65	2.08E-03	10926	-2.53	4.58E-07
8433	-1.56	2.02E-11	10929	0.89	3.67E-04
8434	-1.29	8.31E-03	10934	-0.94	1.73E-05
8436	-0.86	4.68E-05	10940	-0.59	8.33E-04
8446	-0.76	7.68E-05	10947	-1.36	9.80E-05
8451	-1.64	6.07E-12	10948	-0.94	1.15E-06
8454	-1.62	2.59E-16	10950	1.16	2.03E-11

8457	1.21	4.17E-06	10965	1.29	4.69E-13
8460	-0.72	4.85E-04	10972	0.96	6.58E-04
8463	-1.02	8.88E-03	10977	-1.52	1.53E-11
8464	0.59	1.36E-03	10980	1.31	1.19E-14
8466	1.61	1.38E-19	10985	-1.43	4.18E-14
8467	1.35	6.62E-17	10987	-0.96	1.50E-03
8476	-0.67	1.44E-04	10991	1.32	2.99E-12
8477	-0.68	1.27E-04	10992	-1.08	2.77E-06
8478	-0.66	1.90E-04	10995	-1.05	3.80E-05
8484	-1.53	2.88E-08	11000	-1.56	2.65E-05
8485	0.86	2.53E-06	11012	-1.28	1.08E-10
8486	0.57	2.40E-03	11013	-1.03	1.26E-05
8488	0.76	6.49E-09	11015	1.10	3.00E-03
8489	-0.84	3.28E-04	11016	-0.64	3.89E-03
8490	-1.29	1.20E-03	11019	0.54	5.87E-03
8501	1.61	1.07E-10	11029	0.74	1.51E-04
8503	-1.19	9.52E-06	11032	0.59	3.33E-03
8508	-0.80	7.17E-06	11040	-0.60	1.98E-03
8512	-1.80	3.73E-03	11060	0.82	7.76E-05
8520	-1.36	8.39E-04	11065	1.04	1.03E-09
8529	-1.65	3.55E-06	11075	0.92	2.83E-03
8533	-1.25	8.10E-03	11076	-0.85	8.86E-04
8539	0.93	6.68E-07	11085	-0.84	2.45E-05
8545	0.51	7.36E-03	11088	1.68	1.77E-23
8546	0.56	1.24E-03	11090	1.03	4.02E-06
8547	-1.23	2.12E-04	11095	0.74	1.44E-03
8550	-0.81	2.91E-05	11096	1.81	1.20E-11
8551	0.56	8.89E-03	11097	-1.44	1.35E-11
8554	-0.98	2.18E-03	11101	0.96	1.89E-08
8557	-1.43	3.84E-06	11102	1.30	8.96E-14
8559	1.24	4.20E-14	11103	0.98	1.06E-07
8560	0.80	2.36E-05	11107	-0.66	2.93E-04
8561	0.87	2.91E-04	11108	-0.90	2.18E-06
8562	-0.65	5.24E-04	11115	-0.82	2.21E-03
8563	1.06	1.04E-06	11127	-0.69	4.20E-04
8566	0.54	1.87E-03	11139	-0.90	1.16E-06
8574	0.59	1.41E-03	11140	0.79	8.99E-05

8576	-1.75	1.32E-14	11149	0.57	2.31E-03
8577	0.58	6.15E-04	11151	1.12	5.68E-06
8578	1.27	9.55E-06	11153	-0.76	7.22E-05
8579	-0.90	1.64E-03	11157	-0.87	2.69E-05
8580	-1.00	5.98E-04	11159	1.49	3.33E-17
8585	0.73	9.93E-03	11166	-1.20	1.91E-11
8589	-0.83	1.21E-03	11172	-1.40	9.96E-14
8591	-0.68	1.23E-03	11173	1.25	2.79E-13
8593	-0.90	1.57E-05	11177	1.27	2.45E-06
8596	-0.79	1.05E-03	11179	-0.49	6.26E-03
8600	0.62	1.11E-03	11180	-0.67	2.55E-03
8601	-1.21	1.63E-07	11181	-1.65	1.43E-05
8604	-0.89	5.98E-07	11184	1.39	5.10E-15
8608	-1.32	2.05E-03	11188	0.50	7.07E-03
8609	-1.20	2.27E-05	11189	0.61	6.91E-04
8611	-1.41	1.39E-16	11191	-1.23	2.71E-12
8613	-1.37	3.28E-10	11196	1.21	3.13E-13
8614	-0.68	1.51E-03	11201	-1.56	2.42E-07
8617	1.25	1.99E-07	11202	-0.52	3.59E-03
8621	-0.92	3.19E-03	11206	-1.34	9.20E-11
8624	0.62	5.66E-04	11210	1.44	1.89E-07
8627	-1.00	7.00E-06	11213	-1.59	5.02E-05
8628	0.88	1.30E-03	11219	-1.25	4.96E-08
8630	1.06	5.08E-06	11224	1.02	1.90E-08
8636	0.84	1.45E-04	11236	-1.06	1.80E-04
8647	-1.13	3.16E-07	11239	-0.82	6.28E-04
8651	-0.86	6.32E-04	11244	1.25	2.58E-13
8654	0.79	6.13E-04	11249	-0.97	3.33E-08
8656	0.64	1.87E-03	11251	1.00	8.67E-08
8662	-1.77	1.52E-03	11254	-0.69	6.66E-07
8664	1.15	1.87E-08	11277	0.53	3.11E-03
8668	-0.94	1.31E-04	11289	0.75	5.99E-04
8673	0.54	3.85E-03	11290	-0.58	2.87E-03
8674	-0.49	2.75E-04	11292	0.70	7.21E-04
8675	-0.97	4.67E-07	11294	-1.14	8.21E-06
8676	-1.40	1.29E-13	11302	1.55	6.11E-16
8679	0.75	3.53E-06	11303	-0.74	5.69E-05
8683	-1.73	3.19E-10	11306	-1.44	3.82E-18

8686	0.57	6.67E-04	11311	-1.13	5.90E-10
8688	-0.60	1.00E-03	11314	-0.58	3.25E-03
8689	0.67	4.67E-04	11315	0.78	8.93E-04
8690	-1.37	1.77E-08	11316	-1.19	1.68E-07
8693	-2.30	1.84E-19	11321	-1.18	1.09E-08
8694	0.87	1.36E-05	11323	-1.13	2.48E-05
8699	1.09	2.84E-10	11337	0.95	3.65E-08
8700	1.26	1.08E-09	11340	1.40	1.26E-17
8703	0.86	4.67E-04	11343	0.89	9.68E-07
8704	-1.06	6.68E-04	11344	1.14	5.69E-11
8706	-1.44	1.32E-03	11348	-0.95	4.69E-04
8707	-1.28	2.15E-04	11352	0.67	9.97E-04
8708	-1.25	3.29E-04	11355	-1.32	1.46E-06
8710	-2.38	9.04E-16	11359	-1.11	2.31E-10
8715	-0.73	3.64E-05	11374	-0.49	6.29E-03
8721	0.46	2.17E-03	11382	-0.97	1.30E-06
8724	1.62	5.55E-15	11384	-1.00	5.87E-08
8728	-2.54	9.82E-22	11386	-2.09	1.30E-08
8731	0.85	2.48E-06	11390	-1.64	8.87E-13
8733	-1.14	3.59E-08	11406	-0.97	2.73E-05
8740	0.63	2.39E-05	11408	-1.49	9.49E-11
8744	-1.21	1.10E-08	11410	-0.79	2.23E-05
8747	0.71	9.53E-05	11412	0.50	6.05E-03
8751	-0.53	1.57E-03	11413	1.01	8.07E-04
8752	1.19	2.03E-06	11415	-2.58	7.47E-08
8756	0.53	2.94E-03	11417	1.10	3.94E-10
8757	-1.04	9.26E-08	11425	-0.67	3.47E-04
8759	-1.81	7.39E-05	11427	-0.89	7.76E-03
8761	0.53	6.92E-03	11436	0.92	1.06E-03
8762	-0.63	8.27E-04	11439	0.88	3.81E-03
8764	-1.22	1.35E-03	11444	1.07	1.54E-09
8767	-1.31	1.15E-07	11446	1.03	4.43E-08
8771	0.76	9.87E-05	11450	-0.92	1.16E-05
8773	-1.18	3.90E-09	11458	0.74	8.87E-04
8774	0.60	8.28E-04	11462	1.83	4.64E-21
8785	-1.39	1.20E-03	11468	-1.66	7.46E-06
8786	-0.61	7.13E-04	11471	1.15	8.11E-11

8792	-1.32	6.27E-05	11480	-0.56	3.95E-03
8793	0.68	7.40E-04	11485	-1.79	7.18E-07
8795	-0.75	4.33E-06	11486	-0.66	1.45E-04
8796	1.01	6.13E-03	11489	1.63	3.94E-08
8800	1.48	8.38E-11	11490	-0.76	9.19E-03
8801	-1.07	1.14E-05	11492	-0.97	1.34E-07
8803	1.18	3.93E-04	11495	1.08	2.99E-11
8805	-1.12	5.23E-11	11497	1.51	4.79E-15
8808	0.73	4.10E-05	11499	1.33	5.23E-14
8810	-0.68	8.59E-05	11500	0.87	4.33E-04
8813	-0.96	6.13E-03	11515	-0.77	8.54E-04
8815	0.57	1.91E-03	11520	-1.81	4.94E-06
8820	-0.96	1.64E-07	11521	0.55	4.99E-03
8822	-0.77	7.52E-05	11536	-0.75	5.14E-04
8824	-1.48	1.60E-05	11547	1.33	1.16E-12
8825	-0.87	2.39E-06	11549	-1.31	1.54E-06
8832	-1.57	3.44E-05	11551	-0.57	2.03E-03
8833	-0.36	3.70E-03	11553	1.67	2.11E-26
8834	0.91	3.95E-06	11555	-1.02	1.49E-06
8836	-0.71	9.51E-03	11556	1.58	2.57E-18
8838	-1.17	8.53E-06	11569	0.55	3.46E-03
8839	-1.92	1.22E-08	11574	-1.55	1.22E-05
8841	-1.28	1.63E-07	11582	0.45	2.08E-03
8846	-1.36	4.50E-05	11589	0.63	8.52E-04
8847	-0.94	9.47E-07	11591	0.73	4.70E-05
8848	-1.78	4.44E-21	11593	0.71	9.31E-04
8849	-1.58	4.70E-07	11594	1.31	3.13E-13
8851	-0.97	1.52E-05	11600	-0.53	3.02E-03
8854	-2.23	3.26E-05	11601	-1.08	1.05E-08
8855	-0.86	4.61E-05	11602	0.64	1.57E-03
8857	0.94	2.87E-07	11603	1.00	1.34E-06
8861	-0.71	7.35E-04	11605	-1.36	4.33E-13
8863	-0.79	4.18E-05	11607	0.67	7.10E-04
8865	-1.34	2.65E-11	11613	0.47	7.18E-03
8867	0.88	1.51E-06	11618	1.03	2.23E-08
8870	-0.69	1.55E-03	11619	0.72	5.33E-05
8875	0.80	7.01E-06	11623	0.46	9.36E-03
8880	-0.59	3.03E-03	11628	-0.57	2.04E-03

8883	-2.08	1.77E-05	11631	0.63	4.46E-04
8888	0.55	1.34E-03	11636	0.56	1.89E-03
8893	0.75	9.27E-06	11639	-0.92	1.43E-05
8898	-1.21	1.13E-12	11641	0.67	2.43E-03
8899	-0.98	2.90E-08	11647	-1.38	9.13E-05
8904	-0.63	6.83E-03	11649	-0.58	2.41E-03
8906	-1.54	7.14E-03	11652	-1.08	5.47E-04
8908	-1.47	7.97E-18	11659	-0.78	8.60E-06
8909	-1.80	6.08E-05	11680	-0.82	1.15E-06
8910	1.33	1.56E-14	11684	1.45	6.95E-16
8911	0.94	6.65E-08	11686	1.14	2.09E-11
8914	0.56	7.68E-03	11692	-1.11	1.23E-03
8915	-0.88	3.10E-05	11701	-1.45	1.79E-10
8916	-0.88	2.80E-05	11702	0.53	3.60E-03
8919	-0.86	1.64E-05	11704	0.93	7.14E-05
8921	0.78	4.81E-04	11705	1.12	3.60E-11
8922	-1.11	4.34E-11	11719	-1.12	6.35E-06
8928	-1.48	1.35E-10	11721	0.58	1.10E-03
8933	-0.56	1.13E-03	11722	-0.78	9.35E-06
8938	0.72	2.09E-06	11726	0.80	4.08E-06
8941	-1.63	1.69E-05	11728	-0.99	7.40E-05
8952	1.35	2.42E-13	11742	0.80	3.66E-03
8954	1.31	3.75E-14	11744	-0.81	6.24E-04
8955	0.88	3.98E-07	11748	-0.65	9.66E-03
8957	1.14	1.48E-09	11754	-0.78	4.72E-03
8959	-1.15	2.02E-04	11756	0.91	4.41E-07
8960	-1.46	1.26E-13	11757	-1.06	2.07E-07
8963	-1.51	8.46E-06	11759	0.43	7.56E-04
8965	-0.68	2.48E-04	11760	-0.74	8.25E-05
8970	-0.84	7.60E-07	11771	0.65	4.17E-04
8971	0.68	2.90E-07	11772	1.12	7.74E-08
8980	-1.02	2.87E-07	11776	-0.93	3.37E-06
8981	-1.77	2.47E-18	11780	0.53	6.20E-03
8985	-2.37	1.41E-05	11788	-2.25	3.21E-06
8987	-0.65	3.07E-04	11803	-0.97	6.38E-05
8997	1.20	2.86E-12	11809	-0.56	4.90E-03
8999	1.15	6.81E-07	11815	0.86	5.74E-06

9011	1.12	2.47E-10	11816	0.81	6.63E-04
9013	-0.72	2.99E-04	11818	-1.12	4.91E-05
9015	-0.89	2.20E-03	11825	-0.99	2.90E-08
9023	-0.65	1.57E-04	11833	-1.35	2.40E-06
9027	-0.99	8.87E-07	11839	-1.00	1.66E-04
9029	0.74	6.83E-03	11844	0.57	1.37E-03
9030	0.92	7.06E-07	11847	1.28	6.66E-14
9037	0.52	6.52E-03	11856	0.79	1.24E-05
9040	-0.96	2.39E-07	11862	1.15	1.16E-04
9043	-1.65	4.00E-08	11863	-0.62	2.79E-04
9046	-1.90	3.25E-10	11864	-0.53	3.79E-03
9049	-1.60	3.09E-04	11866	-0.73	9.29E-05
9050	-1.96	7.78E-14	11873	0.51	4.26E-03
9052	1.15	3.18E-10	11875	-1.54	1.15E-05
9054	-0.97	1.10E-04	11879	-0.65	4.31E-04
9055	-1.78	1.34E-14	11887	-0.76	2.48E-05
9056	-0.78	1.66E-05	11888	-1.88	1.05E-06
9057	-1.10	5.76E-11	11890	-0.84	2.36E-06
9063	-0.87	3.62E-06	11892	-0.56	7.57E-03
9064	-0.88	2.49E-06	11895	1.51	1.57E-06
9065	0.85	3.19E-05	11896	-1.44	5.43E-12
9068	0.82	1.98E-04	11897	0.56	6.26E-03
9069	1.07	3.27E-04	11898	-1.54	1.71E-16
9075	-1.01	5.61E-03	11900	-2.05	5.49E-13
9081	0.62	4.71E-04	11902	-2.02	7.18E-05
9082	-0.91	6.50E-07	11908	0.96	1.25E-08
9084	-1.59	2.08E-12	11915	-0.75	5.22E-05
9086	0.37	5.20E-03	11918	0.53	4.64E-03
9087	-1.17	5.78E-12	11929	0.75	3.04E-08
9089	-0.87	1.19E-04	11931	0.70	9.69E-05
9090	0.91	3.77E-03	11933	-0.61	3.45E-03
9095	-1.78	2.17E-04	11936	-0.61	3.23E-04
9096	-0.66	2.99E-04	11940	-1.06	6.34E-08
9098	0.52	3.48E-03	11943	0.78	8.54E-03
9099	-1.09	2.72E-04	11947	-1.21	6.23E-11
9101	0.79	5.32E-06	11950	-0.42	1.91E-03
9103	1.00	3.88E-06	11961	-1.54	4.85E-16

9110	-1.91	5.47E-06	11966	0.69	2.22E-03
9113	-1.73	8.38E-08	11972	-1.06	3.53E-03
9120	-1.28	4.08E-03	11976	-1.17	1.71E-05
9125	-2.32	5.95E-09	11977	-0.82	6.92E-06
9127	-1.48	4.33E-14	11982	-1.18	6.18E-04
9129	2.13	2.15E-35	11990	0.92	4.24E-03
9132	-0.86	1.92E-07	11998	0.83	2.66E-04
9136	-1.27	1.38E-03	12000	-0.94	4.29E-07
9138	0.71	5.32E-05	12010	0.95	1.33E-06
9140	0.96	5.10E-07	12012	-0.97	7.30E-04
9142	0.95	1.04E-07	12015	0.93	5.93E-05
9150	0.86	1.48E-06	12022	-0.87	6.77E-03
9151	-0.66	8.54E-03	12032	1.60	4.31E-18
9158	0.78	5.37E-05	12036	0.88	1.51E-06
9159	0.62	2.33E-05	12043	-0.61	1.99E-03
9161	-0.83	5.31E-06	12045	-1.73	2.03E-05
9165	0.81	3.74E-11	12059	-0.82	9.08E-03
9166	-1.07	2.71E-07	12060	1.07	2.06E-07
9173	1.13	6.63E-11	12063	0.99	1.50E-07
9178	-1.13	3.70E-04	12064	0.47	7.90E-03
9179	-1.08	5.45E-04	12065	-0.97	7.29E-04
9182	-0.61	6.17E-04	12066	0.96	1.77E-08
9183	-1.76	2.69E-23	12073	-1.26	2.10E-07
9184	0.50	4.64E-03	12076	1.01	1.01E-08
9187	-0.57	1.23E-04	12090	0.73	1.87E-05
9188	-0.49	5.61E-03	12110	-1.61	5.26E-05
9191	-0.78	9.65E-05	12118	-1.14	2.25E-03
9192	-0.72	6.37E-05	12121	1.25	3.44E-11
9194	0.94	4.10E-07	12130	-1.46	1.22E-03
9196	-0.90	7.75E-05	12131	-1.29	3.83E-04
9200	-0.95	3.29E-06	12132	0.49	5.49E-03
9201	0.60	2.64E-03	12137	0.52	8.44E-03
9207	0.60	7.72E-04	12141	-0.36	4.57E-03
9208	-1.29	4.82E-05	12154	-0.74	4.21E-05
9209	0.76	2.40E-04	12162	-0.71	7.48E-05
9213	1.18	8.26E-09	12166	-1.74	5.38E-08
9216	-0.66	1.89E-04	12168	1.24	7.65E-13
9221	0.85	6.81E-03	12170	-1.08	1.41E-05

9222	0.89	2.51E-03	12174	-1.78	6.07E-23
9225	1.19	6.33E-21	12175	0.68	8.72E-05
9228	1.06	1.76E-09	12186	1.31	2.73E-13
9237	-1.20	1.36E-12	12187	-1.09	2.33E-08
9241	-1.11	4.12E-08	12190	-0.80	3.33E-05
9248	1.34	3.48E-13	12194	-0.90	1.93E-03
9251	-0.64	4.27E-03	12200	1.13	2.27E-10
9255	-0.91	8.39E-03	12207	-1.23	3.16E-05
9260	-1.09	6.34E-09	12208	0.48	7.59E-03
9264	0.80	4.45E-06	12214	0.94	1.53E-04
9265	1.37	3.25E-07	12215	-1.13	1.00E-03
9266	-0.75	1.15E-03	12219	-0.48	7.25E-03
9269	-1.25	4.31E-10	12228	-1.10	1.35E-03
9275	-0.56	3.02E-03	12230	1.48	2.28E-09
9281	-1.58	1.10E-14	12232	1.35	5.73E-14
9284	-0.69	7.78E-05	12233	-0.87	6.49E-05
9288	-1.16	1.89E-10	12235	-0.94	3.15E-04
9289	-0.95	3.15E-03	12240	0.66	1.50E-04
9290	-1.28	9.44E-11	12241	-2.11	1.11E-09
9291	1.45	2.06E-09	12242	-1.23	8.30E-13
9293	-0.89	5.40E-06	12250	-0.53	6.00E-03
9294	-0.91	3.24E-06	12275	0.68	1.70E-04
9300	0.98	4.53E-08	12280	0.76	1.12E-05
9302	0.98	1.01E-05	12284	0.92	3.33E-07
9305	0.60	4.70E-04	12288	1.29	1.33E-13
9306	0.82	6.30E-05	12291	1.67	3.88E-23
9307	0.96	2.45E-05	12292	0.82	5.62E-06
9311	-0.63	8.55E-04	12293	-1.12	4.41E-05
9314	1.19	3.43E-08	12294	-0.90	1.94E-03
9315	-0.59	1.10E-03	12295	-1.00	1.92E-04
9319	0.71	5.72E-05	12304	-1.52	4.98E-16
9321	-0.59	1.51E-03	12308	0.72	1.58E-04
9326	-1.05	1.48E-05	12310	1.61	2.27E-08
9327	-1.56	1.83E-06	12322	1.04	4.98E-11
9329	-1.26	1.70E-13	12327	-1.04	1.13E-05
9330	-0.52	6.04E-03	12329	0.76	6.30E-05
9347	-1.54	2.97E-18	12330	0.95	3.27E-08

9348	-0.44	4.07E-04	12334	-0.90	7.45E-06
9349	-1.40	1.87E-07	12336	1.64	7.53E-22
9352	0.92	4.66E-07	12343	-1.68	2.87E-05
9353	0.93	4.93E-07	12344	1.07	4.11E-09
9355	1.63	1.65E-22	12356	-1.33	4.24E-09
9356	-0.54	4.90E-03	12358	-1.66	4.72E-20
9364	0.74	1.56E-03	12365	-0.75	9.40E-05
9367	-1.08	4.20E-06	12368	1.42	1.67E-18
9368	1.37	4.20E-16	12376	0.88	1.84E-06
9369	0.75	1.81E-05	12379	0.45	8.91E-03
9371	-0.79	5.36E-04	12381	-0.81	7.63E-04
9373	0.94	1.35E-07	12391	-0.99	5.40E-03
9376	1.00	9.69E-07	12393	1.45	3.79E-17
9379	0.56	6.62E-03	12394	0.49	6.01E-03
9381	-0.76	1.76E-04	12406	-0.78	1.30E-03
9383	-1.17	1.86E-11	12409	0.91	1.10E-07
9386	-0.93	1.37E-06	12411	1.63	2.35E-11
9388	-1.35	3.02E-05	12412	-0.60	9.46E-04
9390	-1.68	7.48E-06	12415	1.65	5.42E-09
9391	-1.08	7.29E-03	12423	-0.89	1.16E-05
9394	-1.37	1.58E-08	12433	-0.60	4.56E-04
9397	-0.94	6.55E-07	12443	1.00	5.68E-07
9399	-1.02	8.83E-03	12444	-1.16	6.91E-04
9402	-1.82	4.35E-14	12454	0.49	8.37E-03
9405	-1.06	3.16E-06	12457	-0.76	2.05E-03
9406	-0.87	1.25E-11	12458	0.91	3.81E-07
9408	-0.59	2.37E-03	12460	-0.69	2.23E-03
9420	0.60	6.98E-03	12462	1.40	2.83E-16
9423	-0.77	8.11E-05	12463	-0.68	1.75E-04
9424	-0.74	4.31E-04	12465	-2.22	1.92E-09
9430	-0.61	6.84E-04	12466	-0.98	2.04E-04
9437	-2.08	5.00E-07	12469	-1.34	8.42E-06
9444	1.19	2.75E-04	12477	-1.31	1.62E-06
9445	-1.13	1.21E-05	12487	-1.27	3.54E-04
9447	-1.52	1.61E-05	12491	0.91	3.67E-07
9449	0.67	7.32E-03	12493	-0.88	7.34E-07
9452	-1.13	1.44E-05	12496	0.80	2.00E-05
9453	0.54	4.49E-03	12497	1.24	1.96E-03

9458	-1.57	9.25E-03	12498	1.05	8.89E-10
9459	-1.00	1.14E-07	12499	0.57	1.26E-03
9460	0.76	4.02E-05	12506	0.72	3.14E-03
9462	-0.66	3.50E-04	12509	-1.98	8.57E-11
9463	0.74	2.79E-05	12510	-1.07	2.02E-06
9464	-0.65	2.58E-03	12518	0.78	4.59E-06
9468	-1.07	6.47E-07	12519	-0.88	1.11E-05
9476	-0.83	9.24E-06	12521	1.39	6.00E-15
9477	0.66	3.36E-04	12522	-0.70	2.27E-04
9478	1.08	3.30E-05	12524	1.81	1.06E-27
12644	-1.43	1.12E-10	12667	1.10	3.58E-05
12649	-1.28	1.26E-03	12668	-0.92	1.66E-05
12652	-1.52	3.73E-05	12673	-1.54	1.84E-16
12655	-0.77	2.30E-05	12674	1.05	2.83E-09
12656	-2.20	2.95E-19	12675	-1.00	8.82E-07
12657	1.45	1.77E-15	12676	-0.64	4.66E-03
12658	-0.73	2.78E-04	12680	-1.14	4.00E-04
12665	0.75	1.23E-03	12685	-0.90	1.29E-04
12666	-0.85	2.86E-03	12693	1.06	2.15E-10
13635	-0.46	8.79E-03	13927	1.34	5.33E-10
13637	-0.68	1.96E-03	13929	-0.69	6.95E-04
13642	0.57	1.73E-03	13934	-0.85	3.21E-06
13646	0.76	1.74E-05	13939	-0.60	8.81E-04
13652	0.69	4.19E-04	13949	-1.13	2.56E-05
13656	-0.58	1.92E-04	13954	-0.72	7.63E-03
13661	-1.14	3.23E-03	13955	0.87	7.54E-06
13663	-0.54	6.10E-03	13967	-0.94	9.59E-03
13667	-0.65	1.89E-03	13971	1.50	3.58E-15
13668	1.23	1.59E-08	13977	0.64	9.86E-04
13676	1.22	2.00E-06	13984	-1.65	7.15E-20
13687	-1.13	7.32E-07	13998	1.23	1.18E-09
13689	-1.29	3.55E-05	14010	-0.93	1.95E-07
13700	-0.64	6.93E-04	14014	-0.62	2.09E-04
13707	-2.41	3.20E-08	14015	-0.66	1.09E-03
13710	0.66	2.64E-05	14016	0.63	1.10E-03
13711	0.84	1.52E-03	14019	1.04	1.01E-10
13712	-0.70	4.48E-04	14031	-1.10	4.08E-09

13713	-0.72	1.15E-04	14038	-0.73	8.45E-05
13720	-0.86	1.54E-03	14050	0.82	1.77E-06
13727	-0.75	1.97E-03	14052	-1.11	4.63E-08
13734	1.04	2.49E-08	14057	-0.81	1.84E-06
13737	0.54	7.02E-03	14061	-0.62	6.65E-03
13741	-0.61	7.29E-04	14071	-1.15	4.95E-10
13743	-0.95	1.60E-03	14079	0.97	4.12E-08
13755	0.97	3.38E-05	14081	-1.12	3.42E-05
13760	-0.79	6.56E-05	14086	-0.71	2.98E-05
13763	-1.51	2.02E-04	14090	-0.87	9.07E-04
13766	-0.85	1.39E-04	14093	0.55	5.49E-03
13767	-0.98	1.81E-08	14101	1.06	9.81E-07
13772	1.06	3.97E-10	14104	-0.65	1.61E-03
13783	-0.75	2.78E-05	14106	1.07	1.31E-11
13786	0.76	6.80E-03	14111	-1.23	1.28E-08
13788	-0.68	5.57E-03	14113	1.73	1.64E-21
13791	0.79	3.51E-06	14130	0.81	1.92E-04
13793	-1.47	3.18E-10	14131	-0.83	1.10E-06
13795	1.15	6.13E-10	14136	-0.56	4.21E-03
13798	-1.27	6.65E-08	14144	0.54	2.48E-03
13805	0.89	2.87E-06	14151	-0.69	6.33E-04
13809	-0.64	1.38E-03	14153	-1.06	1.77E-05
13812	-0.56	4.08E-03	14164	-0.64	6.70E-04
13814	-1.00	2.04E-04	14170	1.42	1.41E-16
13819	0.49	6.71E-03	14176	-0.85	8.44E-03
13827	0.62	1.05E-03	14178	-1.06	4.64E-13
13832	0.80	5.37E-05	14182	0.85	8.58E-07
13834	-0.56	6.73E-03	14187	-0.99	5.37E-03
13837	0.63	1.78E-03	14189	1.21	4.89E-08
13838	1.14	4.82E-10	14191	-1.34	9.43E-09
13839	-1.28	4.79E-10	14194	-1.41	2.23E-05
13852	0.79	3.12E-06	14195	-1.61	2.75E-10
13860	-1.34	7.65E-06	14197	-1.12	7.36E-05
13871	0.40	1.65E-03	14206	1.19	1.36E-07
13878	-1.04	7.42E-06	14213	0.83	1.78E-06
13879	-0.63	5.27E-04	14219	-0.53	9.93E-03
13882	1.24	1.48E-07	14222	-1.82	3.10E-06

13885	0.68	1.15E-03	14237	-1.68	1.88E-09
13891	-1.67	1.13E-06	14242	-0.64	4.76E-04
13898	1.05	1.16E-08	14244	-1.27	1.02E-12
13903	-0.72	8.24E-04	14246	-1.32	1.06E-11
13906	-0.80	9.50E-05	14253	0.79	3.94E-04
13916	-1.34	1.10E-04	14259	-1.12	8.90E-04
13917	-0.79	4.76E-05	14265	-1.04	3.99E-08
13923	-1.07	9.77E-04	14269	1.01	5.16E-06
13926	-1.00	6.25E-03	14270	0.53	7.62E-03
15333	0.90	5.65E-07	11663	-1.91	5.00E-02
15339	-1.05	4.86E-04	11697	0.31	5.00E-02
15351	0.71	6.45E-04	11810	-1.46	5.00E-02
15368	-0.77	2.53E-04	11829	1.01	5.00E-02
15375	-1.12	5.13E-07	11836	-2.50	5.00E-02
252	-0.16	5.00E-02	11841	-1.60	5.00E-02
375	0.30	5.00E-02	11854	-2.81	5.00E-02
907	-1.74	5.00E-02	11886	-1.45	5.00E-02
920	-0.47	5.00E-02	12018	-2.48	5.00E-02
1022	-0.76	5.00E-02	12047	-1.84	5.00E-02
1120	-0.13	5.00E-02	12342	-2.39	5.00E-02
1216	0.83	5.00E-02	12447	-1.01	5.00E-02
1315	-0.23	5.00E-02	12474	2.50	5.00E-02
1762	-2.86	5.00E-02	12648	1.50	5.00E-02
1812	0.29	5.00E-02	12703	2.89	5.00E-02
2119	1.16	5.00E-02	12783	1.39	5.00E-02
2154	-1.85	5.00E-02	12934	0.76	5.00E-02
2198	0.61	5.00E-02	13101	-1.22	5.00E-02
2710	2.12	5.00E-02	13262	1.97	5.00E-02
2784	-0.33	5.00E-02	13327	1.62	5.00E-02
2846	-0.09	5.00E-02	13360	-2.42	5.00E-02
3147	-0.17	5.00E-02	13416	5.25	5.00E-02
3157	-5.52	5.00E-02	13571	-1.31	5.00E-02
3323	0.17	5.00E-02	13577	-0.88	5.00E-02
3384	2.01	5.00E-02	13655	4.44	5.00E-02
3549	-0.42	5.00E-02	13715	-5.25	5.00E-02
3682	-0.20	5.00E-02	13875	2.93	5.00E-02
3990	-0.68	5.00E-02	13908	-1.28	5.00E-02
4004	-0.98	5.00E-02	14022	1.22	5.00E-02

4008	-0.73	5.00E-02	14051	2.62	5.00E-02
4302	-2.17	5.00E-02	14078	1.48	5.00E-02
4749	0.32	5.00E-02	14108	-1.88	5.00E-02
4785	-1.53	5.00E-02	14129	1.84	5.00E-02
5497	-0.40	5.00E-02	14150	-1.69	5.00E-02
5506	-0.43	5.00E-02	14158	96.14	5.00E-02
5533	-0.99	5.00E-02	14245	1.21	5.00E-02
5650	0.91	5.00E-02	14328	-1.19	5.00E-02
5965	1.66	5.00E-02	14343	-1.54	5.00E-02
5981	-0.54	5.00E-02	14486	-1.43	5.00E-02
6090	0.93	5.00E-02	14570	1.55	5.00E-02
6313	-0.26	5.00E-02	14595	-1.05	5.00E-02
6525	3.99	5.00E-02	14604	-1.24	5.00E-02
6636	-1.67	5.00E-02	14726	-1.71	5.00E-02
6983	-0.41	5.00E-02	14754	-1.86	5.00E-02
7920	-1.50	5.00E-02	14764	-1.75	5.00E-02
8177	-0.76	5.00E-02	14796	1.65	5.00E-02
8381	-0.79	5.00E-02	15044	-1.65	5.00E-02
8594	1.82	5.00E-02	15071	-1.59	5.00E-02
8802	-0.65	5.00E-02	15072	-0.87	5.00E-02
9271	0.23	5.00E-02	15091	2.52	5.00E-02
9312	1.17	5.00E-02	15119	2.21	5.00E-02
9710	-3.67	5.00E-02	15127	-3.99	5.00E-02
10137	-2.14	5.00E-02	15129	1.21	5.00E-02
10795	-1.29	5.00E-02	15224	-1.72	5.00E-02
11067	1.14	5.00E-02	2432	0.70	3.94E-04
11230	1.42	5.00E-02	2433	1.20	2.55E-06
11283	-2.00	5.00E-02	2436	0.40	4.28E-03
11370	-0.93	5.00E-02	2438	-1.10	3.46E-03
11411	0.31	5.00E-02	2442	0.90	2.67E-03
11423	1.76	5.00E-02	2443	-0.90	1.60E-03
11484	2.15	5.00E-02	2446	1.40	2.52E-14
11525	1.05	5.00E-02	2452	0.70	7.70E-03
11526	1.76	5.00E-02	2453	-0.50	5.87E-03
11625	-90.37	5.00E-02	4801	-1.00	8.54E-09

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TABLE 20 - GENETIC MARKERS FOR LIVEWEIGHT

A	B	C	A	B	C	A	B	C
3	-4.60	9.53E-05	2210	-5.20	2.11E-04	4508	3.80	2.22E-03
8	-3.60	2.28E-03	2215	7.50	1.82E-07	4512	3.70	3.44E-03
16	6.30	9.67E-07	2216	5.60	2.09E-03	4533	5.60	1.22E-04
26	4.90	2.55E-04	2217	-5.20	6.22E-05	4536	6.90	4.42E-08
32	6.70	1.27E-07	2218	3.60	3.12E-03	4545	3.50	7.43E-03
36	-5.60	3.62E-03	2224	5.20	8.71E-06	4556	3.30	9.70E-03
39	-13.60	7.17E-06	2231	4.00	4.17E-03	4560	-3.40	5.07E-03
44	-6.00	2.30E-03	2237	-6.00	5.97E-03	4567	-5.60	1.30E-03
46	-6.40	3.85E-05	2245	-5.80	1.87E-05	4577	5.10	3.61E-03
57	4.80	5.79E-05	2246	9.20	4.34E-03	4580	4.50	8.63E-03
59	-9.20	1.04E-03	2248	-2.60	3.05E-03	4582	4.20	3.71E-04
63	-4.20	6.92E-04	2257	-5.20	2.99E-03	4583	5.40	7.34E-06
66	4.70	6.89E-05	2261	-5.00	4.62E-05	4599	-9.50	8.66E-10
71	-5.50	2.59E-04	2266	-7.60	4.50E-03	4602	4.70	6.67E-05
85	-7.20	4.72E-03	2272	5.70	2.19E-05	4608	-5.70	2.66E-05
93	-6.50	1.09E-07	2275	-4.30	2.74E-04	4610	3.70	3.45E-03
99	4.80	3.29E-05	2303	8.60	3.80E-10	4612	-6.50	3.27E-03
110	-6.50	2.20E-03	2307	4.30	7.00E-04	4613	-4.50	5.35E-04
117	3.40	8.36E-03	2311	4.80	5.31E-06	4615	-7.60	1.71E-03
122	-7.90	4.03E-03	2318	3.80	3.21E-03	4619	-6.20	2.06E-07
130	-3.90	1.03E-03	2331	4.70	1.72E-04	4623	-4.70	1.84E-04
131	7.00	7.77E-10	2335	-4.90	5.00E-04	4625	3.90	2.56E-03
150	-7.40	5.56E-09	2336	4.50	1.93E-04	4627	-4.80	9.72E-03
152	11.40	3.55E-11	2337	-8.50	7.88E-04	4634	-4.60	3.31E-03
156	5.50	1.01E-05	2341	-5.60	1.95E-04	4647	6.20	3.67E-05
157	-4.60	1.94E-04	2343	5.10	2.05E-05	4648	-9.60	6.11E-09
163	4.10	4.79E-03	2345	-5.10	3.62E-05	4651	7.20	6.89E-08
167	-4.40	2.90E-04	2355	-4.20	6.23E-04	4654	-6.40	1.92E-05
168	-3.60	2.09E-03	2357	4.80	6.76E-03	4669	-4.80	4.43E-04
177	4.00	2.91E-03	2369	4.00	1.43E-03	4676	-5.10	1.73E-04
191	-3.90	1.92E-03	2389	-5.40	1.73E-05	4694	4.60	2.02E-04
194	4.40	1.26E-04	2393	-5.20	7.85E-06	4708	-9.60	1.40E-07
196	-3.30	9.19E-03	2394	-4.20	1.57E-03	4723	-5.90	7.50E-05
198	-3.70	1.67E-03	2398	6.80	3.49E-09	4728	3.60	2.23E-03
199	3.90	9.48E-03	2401	-4.80	4.26E-04	4734	8.00	5.33E-05

202	-7.40	2.66E-04
205	3.50	3.44E-03
209	3.60	2.61E-03
217	4.60	4.03E-03
223	5.70	9.67E-03
224	9.60	2.10E-03
225	-3.40	4.64E-03
242	-4.20	2.65E-04
246	-5.60	7.94E-04
250	-4.40	7.38E-04
259	12.80	3.71E-05
261	-3.90	1.20E-03
263	5.30	1.80E-03
265	-4.40	4.71E-04
272	-4.50	2.23E-04
277	-11.00	6.20E-08
282	3.90	1.49E-03
290	-4.10	1.21E-03
300	9.80	2.04E-16
301	6.20	8.60E-07
303	8.90	7.34E-09
308	-5.60	3.36E-05
309	3.40	2.20E-03
314	8.30	1.45E-06
328	-6.40	6.68E-05
330	-5.60	3.84E-03
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331	-4.30	6.06E-04
333	6.90	1.57E-09
335	-6.60	2.25E-05
352	-4.70	6.28E-03
367	-5.20	1.88E-05
373	5.90	9.91E-03
382	6.30	1.98E-05
383	11.40	1.80E-05
386	-8.50	2.39E-03
393	3.90	5.86E-03
394	-7.40	9.05E-09

2404	-4.80	1.22E-04
2408	5.60	2.99E-05
2409	-4.90	4.58E-05
2421	-8.70	2.01E-13
2422	-4.10	2.19E-03
2425	5.10	3.39E-05
2426	5.30	1.88E-05
2438	-9.50	2.49E-03
2439	-3.60	4.19E-03
2448	-3.30	5.81E-03
2451	-4.10	5.18E-03
2453	-4.20	7.18E-04
2459	-6.80	7.99E-03
2465	-6.40	2.19E-08
2466	-7.50	1.95E-10
2470	-7.50	8.19E-06
2471	5.80	7.46E-06
2472	-5.10	2.67E-04
2479	2.20	9.78E-03
2499	10.60	2.54E-17
2501	-3.10	2.60E-04
2506	-6.40	1.41E-03
2514	-3.50	5.51E-03
2542	8.90	1.72E-03
2544	-6.30	1.13E-07
2549	-10.10	6.35E-04
2555	-6.80	3.75E-03
2564	4.50	1.24E-04
2571	-6.50	7.37E-06
2583	5.80	1.16E-05
2590	-6.00	7.29E-04
2608	-4.00	5.69E-04
2612	-4.10	7.75E-04
2614	-8.10	1.35E-07
2615	-4.50	1.82E-04
2624	3.50	3.29E-03
2640	10.00	4.15E-06

4757	5.40	4.38E-05
4758	-5.40	5.42E-05
4765	3.70	3.40E-03
4770	-3.30	8.33E-03
4774	3.70	1.65E-03
4775	8.70	9.84E-08
4778	-5.80	9.98E-04
4782	-6.90	3.17E-05
4787	5.70	8.04E-04
4789	-4.20	1.57E-03
4794	4.60	2.29E-04
4797	7.30	8.73E-09
4801	3.60	1.01E-03
4803	4.10	1.04E-03
4808	-4.20	3.22E-04
4811	-3.40	4.26E-03
4813	-7.00	2.50E-06
4817	4.70	2.73E-04
4827	5.10	1.67E-03
4834	-13.40	1.19E-05
4853	7.10	2.16E-09
4856	-3.40	6.91E-03
4857	-4.60	1.17E-03
4878	-6.80	3.37E-05
4882	4.30	1.94E-03
4893	-3.20	7.58E-03
4894	-5.20	2.40E-05
4900	-3.60	3.16E-03
4905	-5.20	8.74E-03
4909	-3.30	5.39E-03
4920	-3.30	7.42E-03
4932	-6.50	5.86E-03
4936	5.00	1.53E-03
4938	4.40	6.12E-04
4942	-6.80	5.41E-08
4943	-6.80	1.10E-07
4946	-5.30	5.92E-06

395	-3.10	9.53E-03
396	-5.60	4.70E-04
420	-3.70	3.27E-04
423	-6.30	2.80E-06
425	4.80	5.76E-05
436	-3.90	3.04E-05
440	3.80	1.72E-03
465	6.40	2.87E-03
472	-3.90	5.75E-03
476	7.20	6.72E-08
479	-14.20	5.39E-05
488	-4.70	1.11E-03
498	-6.60	6.45E-07
499	3.80	7.25E-03
505	5.10	3.84E-05
508	3.30	4.00E-03
511	-6.00	3.21E-04
516	7.90	1.87E-05
517	-3.60	3.21E-03
522	-8.60	1.54E-04
523	5.40	4.96E-04
535	-4.80	4.64E-04
536	-5.40	7.23E-03
537	3.50	3.24E-04
538	5.60	2.58E-07
539	-3.30	9.69E-03
541	4.20	3.45E-03
545	-8.50	2.33E-04
557	-4.00	7.74E-03
559	-4.00	2.97E-04
563	3.80	7.05E-03
565	6.60	1.59E-07
574	-5.70	7.07E-04
580	-5.30	1.17E-05
582	6.60	4.82E-08
588	-7.70	6.46E-05
614	-4.00	1.24E-03
620	3.90	1.27E-03

2648	-3.80	5.11E-03
2649	-6.90	1.22E-09
2664	3.40	4.54E-03
2665	3.30	5.42E-03
2673	-9.00	7.58E-07
2677	-12.70	3.01E-10
2688	-3.70	3.27E-03
2696	6.60	2.61E-08
2705	-5.90	7.46E-07
2706	-3.70	6.62E-03
2707	-5.70	9.35E-06
2712	-8.30	8.64E-11
2713	3.60	2.74E-03
2723	-12.10	1.61E-05
2726	-5.20	3.54E-04
2727	6.50	3.58E-06
2736	-4.80	7.18E-05
2738	-4.50	4.01E-04
2739	-4.20	9.05E-04
2740	-4.30	5.50E-04
2742	-7.50	1.58E-03
2750	-9.90	5.14E-03
2752	-8.10	1.16E-04
2773	-5.70	1.19E-03
2781	3.90	6.39E-03
2782	3.00	3.56E-04
2786	4.70	1.26E-04
2787	3.80	5.58E-03
2790	3.80	1.44E-03
2792	-5.80	1.71E-06
2793	-3.70	9.14E-03
2798	-6.50	7.59E-03
2800	-4.70	9.02E-05
2824	7.10	1.98E-08
2844	-7.90	2.87E-04
2845	-6.70	2.74E-03
2848	-8.20	6.97E-12
2859	4.80	2.89E-05

4957	-6.50	8.01E-08
4973	3.90	2.76E-03
4974	4.40	8.29E-04
4991	-4.70	1.43E-04
4996	-5.40	4.37E-03
5003	-11.40	5.14E-07
5046	-3.10	9.67E-03
5048	3.90	2.42E-03
5051	-4.00	3.55E-03
5057	-4.70	3.35E-03
5063	-7.00	2.83E-04
5066	-5.30	7.68E-06
5069	6.90	2.52E-08
5071	5.70	1.61E-06
5083	7.10	7.52E-08
5086	3.60	1.66E-03
5093	-3.90	2.23E-03
5101	-3.90	8.32E-03
5102	-7.00	4.31E-03
5108	-4.00	3.83E-03
5115	-9.50	2.00E-11
5116	-4.60	1.26E-04
5118	4.30	1.80E-04
5135	-3.00	5.28E-03
5145	-7.40	7.23E-10
5156	-2.70	7.12E-03
5166	-4.10	1.05E-03
5168	3.60	3.63E-03
5187	5.20	7.50E-04
5201	4.20	1.11E-03
5204	-3.90	2.64E-03
5205	-4.90	3.95E-03
5209	4.80	9.98E-05
5212	-3.50	4.28E-03
5219	9.00	5.03E-09
5220	-4.00	9.64E-04
5229	-6.40	1.66E-03
5235	-5.30	5.57E-04

623	7.00	7.11E-08	2860	10.40	6.10E-05	5259	-3.60	6.78E-03
629	4.90	2.75E-04	2864	-5.50	4.42E-03	5262	5.50	2.06E-03
640	-4.40	1.44E-04	2873	5.50	9.41E-03	5272	-3.30	5.17E-03
644	6.00	3.71E-07	2888	-4.80	8.93E-06	5279	3.10	9.98E-03
645	-4.30	3.23E-04	2890	4.00	2.05E-04	5284	7.90	8.68E-06
649	-3.40	6.69E-03	2896	-5.60	1.76E-03	5285	-5.20	7.01E-05
661	6.20	8.72E-07	2905	-6.30	7.40E-05	5303	-6.50	1.63E-03
663	-8.10	6.51E-07	2907	-5.50	3.52E-05	5315	-8.10	2.40E-10
664	-7.50	2.95E-09	2909	4.00	3.07E-03	5317	5.10	1.37E-05
668	-7.60	1.27E-09	2910	6.30	6.93E-06	5319	-6.70	4.09E-04
674	6.50	2.23E-05	2916	4.30	3.54E-04	5320	-4.70	2.36E-03
681	3.10	9.19E-03	2939	5.50	1.47E-04	5322	9.40	4.63E-04
688	5.00	1.59E-05	2944	-4.40	5.08E-04	5323	3.20	9.04E-03
700	-13.30	2.60E-06	2955	-6.70	5.88E-03	5329	-8.30	3.63E-04
348								
703	5.50	2.12E-05	2959	-3.40	5.59E-03	5331	-4.80	4.76E-04
705	-3.30	3.16E-03	2960	-4.80	5.92E-04	5333	-3.90	6.30E-03
711	-8.90	2.00E-06	2974	-5.40	4.53E-03	5334	-3.90	6.24E-03
723	-11.30	6.15E-14	2995	5.80	2.14E-06	5336	5.40	3.71E-06
724	-3.90	4.21E-03	2996	4.60	1.45E-04	5343	4.10	6.60E-03
726	-3.80	2.56E-03	3029	-6.60	4.66E-03	5344	4.90	2.50E-05
736	5.60	2.12E-06	3034	6.50	8.29E-06	5345	3.10	7.70E-03
753	-6.90	1.69E-09	3039	-3.80	3.65E-03	5347	9.90	2.30E-05
754	4.80	1.39E-03	3048	7.00	1.06E-07	5348	4.70	2.90E-03
764	-4.50	1.67E-04	3050	-6.50	1.61E-05	5353	4.40	3.50E-04
765	-7.00	4.34E-03	3053	4.50	5.35E-03	5356	-6.60	5.60E-06
772	-3.60	3.30E-03	3068	-4.80	5.18E-05	5363	-4.60	1.60E-03
773	5.50	6.78E-07	3072	5.30	2.32E-03	5365	-5.30	2.31E-03
776	5.10	2.02E-05	3079	-4.10	2.17E-03	5367	3.80	1.66E-03
779	-5.70	1.24E-03	3082	-4.20	3.31E-04	5373	-6.10	6.15E-05
780	-4.30	5.18E-04	3089	-6.40	3.19E-07	5374	-6.00	7.54E-05
790	6.30	3.64E-05	3112	4.70	8.14E-05	5375	4.00	3.02E-03
793	8.50	9.88E-09	3115	-6.90	3.19E-06	5383	5.90	3.00E-03
801	-5.60	1.04E-03	3133	-4.90	9.24E-05	5390	2.40	5.93E-03
806	-6.60	5.36E-05	3140	-3.40	9.27E-03	5391	-7.60	5.51E-10
808	-4.00	1.95E-03	3142	3.20	6.67E-03	5395	6.80	2.41E-08
827	4.70	1.11E-04	3153	-5.50	9.64E-06	5417	5.90	4.13E-04
841	-4.50	1.93E-04	3166	-4.80	4.70E-05	5418	2.90	6.12E-04

847	-3.50	7.89E-03	3167	6.40	2.18E-05	5426	-5.20	2.08E-04
850	-3.30	6.54E-03	3168	7.10	4.45E-08	5427	-5.20	2.57E-04
853	-6.90	1.22E-03	3171	-10.60	1.66E-05	5429	4.50	4.66E-03
854	-6.20	4.45E-06	3182	5.20	1.95E-05	5437	4.00	1.36E-03
864	3.40	3.26E-03	3183	-3.60	3.62E-03	5438	3.60	4.42E-03
865	7.50	4.80E-06	3189	-4.20	3.49E-04	5446	3.60	2.46E-03
873	-5.90	5.72E-06	3190	6.50	8.53E-05	5451	5.20	1.23E-03
874	-8.50	1.21E-03	3217	-4.20	2.04E-03	5461	-6.90	5.89E-05
875	-7.30	1.64E-06	3239	-6.70	2.89E-04	5462	3.80	1.71E-03
882	-6.10	7.83E-06	3240	-6.70	2.80E-04	5466	-7.40	7.59E-10
885	-5.50	2.12E-03	3250	-3.70	9.13E-03	5472	-6.90	4.71E-09
894	7.30	4.34E-03	3257	3.70	8.62E-03	5485	-6.00	2.49E-03
912	4.70	3.03E-03	3259	-7.50	1.90E-06	5486	-6.00	2.64E-03
915	-4.20	6.29E-03	3272	6.40	1.45E-04	5495	7.60	9.45E-05
932	-3.90	1.00E-02	3275	-5.40	8.54E-04	5511	-3.70	3.30E-03
936	-3.40	6.38E-03	3288	-6.10	3.82E-04	5513	-5.10	1.14E-04
945	5.30	5.60E-06	3309	-11.70	2.85E-04	5522	-4.70	1.18E-04
948	-9.50	1.16E-09	3312	-7.60	1.21E-08	5524	-5.40	2.03E-04
950	3.20	1.35E-04	3313	-7.70	1.37E-08	5525	-4.10	3.14E-03
957	4.50	4.62E-03	3318	-4.50	1.72E-03	5526	-7.20	6.95E-05
958	4.40	4.96E-03	3321	6.10	3.24E-07	5540	-8.40	1.81E-09
959	-4.80	6.69E-05	3328	4.90	5.62E-05	5541	-8.40	1.86E-04
962	6.80	2.50E-06	3333	8.60	2.09E-07	5546	-3.80	3.05E-03
963	-10.70	2.66E-07	3353	4.30	9.63E-04	5548	10.40	3.87E-15
984	3.70	3.25E-03	3357	-4.50	4.99E-04	5551	-3.40	8.73E-03
992	-5.20	1.35E-03	3369	-11.40	3.55E-09	5553	5.40	1.31E-03
996	5.50	3.99E-03	3372	-5.40	8.52E-07	5555	6.70	3.43E-04
999	3.50	7.45E-03	3385	-3.40	3.68E-03	5570	3.90	2.48E-04
1004	-5.70	2.07E-04	3390	-7.20	6.50E-04	5577	7.60	2.76E-04
1008	7.50	1.05E-03	3400	3.70	4.71E-04	5580	-5.00	5.12E-05
1012	6.60	2.21E-06	3406	-5.80	5.16E-07	5588	-4.00	3.21E-03
1015	-3.20	9.70E-03	3407	4.40	2.39E-04	5589	-8.50	7.25E-05
1016	-3.80	1.73E-03	3409	4.70	6.77E-04	5590	5.30	1.25E-05
1023	-3.50	3.20E-03	3411	-4.50	2.32E-04	5594	-3.10	9.53E-03
1027	4.40	1.96E-04	3417	4.20	2.12E-04	5596	-4.20	1.25E-03
1028	-7.60	5.06E-04	3423	4.90	1.18E-04	5597	-4.20	1.42E-03
1029	-4.40	1.70E-03	3428	-3.90	5.42E-04	5609	-7.30	1.64E-04
1031	-6.60	8.74E-04	3433	-12.60	3.21E-11	5613	3.40	8.86E-03

1035	-3.90	6.25E-03	3435	-8.20	4.17E-03	5616	4.20	6.14E-03
1037	-5.30	3.30E-04	3436	-3.90	4.39E-03	5634	5.10	2.98E-05
349								
1038	6.70	1.40E-08	3438	-4.40	2.15E-07	5635	5.20	2.29E-05
1039	-3.70	9.91E-03	3439	-8.90	6.54E-08	5638	6.00	1.83E-03
1043	4.90	2.40E-04	3450	-7.50	8.78E-03	5639	-5.80	8.57E-07
1044	5.70	3.05E-03	3451	6.70	7.87E-04	5646	-3.30	1.77E-03
1050	5.40	1.47E-03	3458	6.60	1.02E-07	5663	-4.60	8.98E-03
1071	3.60	4.60E-03	3463	-3.70	1.27E-03	5666	-8.10	8.00E-04
1075	-8.00	4.06E-05	3466	-3.10	6.75E-03	5667	-5.00	4.51E-04
1078	-4.70	4.32E-03	3482	-4.20	9.09E-04	5668	-4.30	2.79E-03
1087	4.80	5.08E-05	3485	-3.70	5.54E-03	5674	-11.50	1.42E-13
1090	-9.70	1.62E-03	3487	-8.00	1.10E-09	5677	-3.20	6.80E-03
1133	-7.00	8.11E-03	3492	-4.20	1.18E-03	5678	-3.30	8.84E-03
1142	-6.30	6.05E-07	3497	-4.20	9.90E-04	5682	3.40	5.71E-03
1145	-4.20	8.67E-04	3498	-4.30	4.76E-04	5688	-4.30	5.01E-03
1146	4.40	7.17E-03	3500	-6.60	2.25E-04	5703	6.20	1.80E-07
1149	3.40	5.16E-03	3515	-6.10	3.64E-03	5705	5.10	8.43E-06
1152	5.40	2.27E-03	3530	-3.90	3.11E-03	5731	3.60	3.35E-03
1154	-6.40	3.10E-04	3546	-3.80	8.23E-03	5739	3.30	4.11E-04
1156	3.90	8.71E-06	3548	-8.10	7.94E-03	5744	-6.40	1.24E-07
1157	-3.60	4.74E-03	3557	-9.20	8.47E-04	5749	5.50	1.10E-03
1161	-3.40	6.57E-03	3558	-4.80	1.85E-04	5754	-3.30	4.70E-03
1163	6.40	2.17E-04	3559	-11.30	1.80E-04	5760	3.30	7.39E-03
1172	-5.50	1.38E-05	3561	7.40	2.99E-05	5775	4.90	7.10E-05
1195	3.30	6.49E-03	3562	-9.10	2.15E-03	5780	-4.90	8.73E-05
1204	-6.60	1.92E-03	3580	-6.90	2.88E-04	5781	-5.20	2.57E-04
1205	-6.90	1.92E-03	3588	-4.90	7.51E-05	5806	-7.30	2.13E-04
1210	-3.10	5.39E-03	3589	4.00	8.37E-03	5808	9.10	3.72E-04
1213	3.80	3.01E-03	3590	-5.10	2.28E-05	5809	-6.80	3.86E-03
1217	7.50	2.64E-04	3594	6.50	8.56E-06	5822	-6.80	2.90E-04
1219	-6.10	8.52E-03	3597	-6.40	7.67E-04	5825	-4.80	2.67E-03
1224	-4.40	2.57E-04	3599	7.60	2.09E-07	5826	-5.10	1.11E-03
1230	9.10	7.46E-04	3601	-6.00	1.98E-05	5835	5.00	1.11E-03
1241	8.60	1.10E-04	3615	4.20	5.78E-04	5840	-3.00	9.94E-03
1254	-4.50	5.75E-03	3619	6.00	1.42E-06	5856	4.70	7.28E-05
1264	5.30	2.44E-04	3621	-7.20	6.97E-05	5865	-4.70	6.79E-03
1275	-3.50	2.56E-03	3625	3.00	3.79E-04	5868	3.60	2.36E-03

1276	-6.60	6.67E-06	3626	5.20	6.50E-05	5870	-3.50	1.98E-03
1283	-4.10	7.81E-03	3628	-6.00	5.39E-03	5874	4.70	9.94E-05
1289	-4.50	5.13E-03	3629	-4.90	3.26E-04	5892	-3.40	4.38E-03
1293	-12.60	7.71E-06	3653	-5.00	2.65E-05	5895	-3.70	1.77E-03
1295	-3.90	4.80E-03	3655	-4.20	7.28E-03	5898	-7.90	5.96E-05
1298	6.20	4.65E-03	3667	5.70	1.43E-04	5902	-3.70	4.64E-03
1319	7.10	9.83E-07	3674	-5.30	1.12E-03	5909	4.70	8.14E-03
1327	-3.30	5.21E-03	3679	-4.30	1.77E-03	5916	5.20	4.87E-04
1329	-4.30	6.38E-04	3704	5.50	8.93E-04	5917	-3.80	6.36E-03
1340	-8.80	9.19E-06	3706	-6.90	1.53E-07	5921	-8.90	6.89E-08
1351	-4.70	6.44E-05	3711	5.40	8.37E-06	5922	-9.10	2.67E-07
1359	-6.00	7.48E-03	3719	4.50	6.48E-03	5923	-4.60	5.75E-04
1366	5.00	4.69E-05	3725	4.40	5.49E-03	5925	9.40	2.71E-09
1367	3.80	5.14E-03	3728	5.40	2.54E-04	5930	-4.50	5.71E-04
1370	-9.30	5.79E-04	3732	-6.60	1.08E-07	5933	-8.10	1.39E-04
1375	-9.60	1.22E-13	3735	-10.60	5.23E-09	5942	4.50	5.37E-03
1380	-8.40	7.21E-05	3743	6.80	9.72E-04	5969	-5.20	2.84E-05
1392	-5.30	1.34E-03	3750	3.40	6.27E-03	5972	-4.90	4.90E-05
1400	-7.30	2.57E-04	3753	-8.90	4.30E-12	5973	4.90	3.95E-05
1401	-5.00	1.39E-05	3765	-4.30	4.29E-05	5978	-5.30	1.14E-04
1408	-2.80	4.81E-03	3770	3.20	6.72E-03	5979	5.10	3.00E-03
1409	3.10	6.35E-04	3778	8.10	8.75E-12	5982	-6.60	4.22E-08
1411	8.60	2.99E-08	3779	4.10	4.23E-04	5994	3.60	3.42E-03
1415	3.20	8.62E-03	3796	-4.60	5.32E-03	5995	3.60	3.21E-03
1417	-5.10	3.38E-04	3797	-4.40	4.60E-03	5996	3.40	5.43E-03
1428	-3.20	1.99E-04	3800	9.00	1.28E-04	5997	3.50	4.10E-03
1435	5.10	3.87E-05	3803	-4.40	4.83E-03	5999	-5.60	1.08E-05
1438	-3.90	5.03E-03	3804	3.80	1.21E-03	6002	-2.80	9.42E-04
350								
1448	-5.10	3.15E-05	3805	4.60	5.59E-04	6005	-5.60	4.96E-06
1450	-4.60	5.10E-05	3812	-4.40	1.72E-04	6013	-6.90	3.14E-03
1451	6.10	6.85E-05	3831	5.40	9.65E-03	6024	7.30	1.64E-07
1464	5.30	7.50E-06	3834	-5.20	1.89E-04	6030	-3.80	3.66E-03
1466	-4.70	1.71E-03	3840	-5.50	8.85E-04	6033	-7.30	7.43E-06
1467	5.70	1.67E-05	3841	-9.30	3.04E-05	6036	-4.30	3.93E-03
1489	-5.30	9.32E-03	3842	-4.10	5.47E-04	6037	-5.50	6.21E-05
1490	5.20	2.98E-05	3851	-4.20	8.97E-03	6053	-4.60	2.49E-04
1498	-7.70	8.97E-10	3859	-3.50	2.95E-03	6057	7.40	3.13E-05

1502	7.00	1.28E-08	3865	-3.90	2.00E-03	6058	-4.80	1.95E-04
1503	4.30	2.45E-04	3871	8.60	4.71E-11	6075	-2.50	3.55E-03
1504	-5.60	2.76E-05	3876	3.50	9.56E-03	6077	4.80	1.02E-04
1505	4.10	9.99E-03	3879	-4.10	2.48E-03	6078	4.90	8.53E-05
1518	-6.70	6.49E-07	3884	-4.70	7.61E-05	6083	-3.90	4.54E-03
1524	4.40	1.04E-03	3885	3.50	2.78E-03	6095	8.90	2.45E-04
1526	-4.50	4.72E-04	3886	6.70	1.09E-06	6104	-3.30	7.70E-03
1527	-3.20	7.58E-03	3889	-7.50	1.49E-03	6105	3.10	9.31E-03
1529	5.40	1.46E-03	3890	-6.80	1.64E-03	6110	-7.40	5.78E-05
1532	-7.20	5.02E-07	3900	-4.00	7.49E-04	6118	6.10	4.28E-07
1533	5.20	7.09E-06	3907	-4.80	3.56E-03	6124	-4.60	9.31E-04
1538	4.30	5.00E-03	3909	-5.20	4.00E-04	6131	4.30	2.86E-05
1545	6.40	8.19E-05	3911	5.50	7.42E-03	6141	3.80	2.02E-03
1547	-3.80	2.36E-03	3912	-6.00	5.28E-07	6154	2.60	1.74E-03
1554	5.40	1.15E-03	3913	-3.20	9.51E-03	6161	-6.30	1.59E-05
1560	6.90	2.28E-07	3915	-3.10	1.25E-03	6163	4.30	1.98E-03
1566	3.30	9.06E-03	3925	6.10	5.44E-03	6169	-7.00	1.87E-04
1585	-4.40	2.15E-04	3927	-4.30	6.23E-04	6176	-4.60	2.05E-04
1588	-4.90	1.66E-04	3933	7.70	1.81E-10	6177	3.40	2.96E-03
1599	8.60	2.06E-11	3938	5.90	1.08E-03	6184	-6.10	3.13E-05
1600	-7.10	5.83E-03	3940	3.50	3.91E-03	6196	3.80	1.48E-03
1601	-8.50	1.64E-09	3945	-6.40	2.13E-03	6200	-5.30	6.57E-04
1607	-5.50	3.39E-03	3946	4.40	3.48E-04	6203	4.60	8.84E-05
1608	-4.20	5.52E-03	3956	-5.30	5.12E-04	6210	-6.60	6.05E-03
1615	-9.70	4.14E-05	3961	-4.30	6.54E-04	6219	5.70	2.65E-05
1623	3.70	1.66E-03	3965	-6.30	3.42E-06	6232	6.40	1.88E-08
1628	4.80	6.58E-04	3978	-4.60	1.84E-04	6233	5.20	3.09E-04
1629	4.80	7.54E-04	3979	-12.20	1.54E-05	6240	-5.20	2.36E-04
1639	-5.50	5.34E-05	3994	3.10	8.24E-03	6246	4.20	6.61E-03
1643	4.20	4.26E-03	3996	-4.90	4.26E-04	6249	4.30	2.70E-04
1644	-5.80	2.74E-04	4002	-4.90	9.39E-04	6253	-5.10	1.66E-05
1648	4.80	8.23E-05	4015	4.30	1.45E-03	6254	-7.90	3.91E-07
1656	-6.30	2.06E-06	4016	-6.30	2.05E-07	6258	-5.40	9.58E-04
1669	-4.00	4.08E-04	4022	-5.40	2.47E-04	6261	3.10	8.29E-04
1677	4.20	1.41E-03	4027	-3.40	5.76E-03	6264	-6.40	3.26E-04
1678	6.10	9.70E-04	4032	6.10	2.78E-07	6267	-8.50	3.56E-05
1681	5.10	5.63E-05	4039	3.60	3.09E-03	6280	-6.20	2.23E-07
1691	-3.60	1.93E-03	4041	-5.80	1.02E-03	6291	6.80	2.46E-04

1705	-6.70	9.04E-04	4043	3.50	2.51E-03	6318	-3.60	3.95E-03
1722	6.30	1.36E-07	4047	-7.60	2.15E-04	6323	5.20	5.36E-03
1729	5.30	1.53E-05	4054	5.30	2.74E-04	6325	3.80	8.76E-03
1744	8.30	1.78E-08	4055	-3.30	6.13E-03	6338	3.70	7.03E-03
1745	8.40	4.56E-09	4059	6.80	7.67E-08	6339	-3.90	4.84E-03
1747	-3.40	4.88E-03	4065	-6.80	5.77E-03	6340	-6.40	4.28E-04
1751	9.50	2.22E-15	4075	-6.20	1.62E-07	6341	-4.10	3.01E-03
1757	-7.70	1.82E-07	4083	-6.60	2.08E-03	6351	-5.20	6.54E-06
1758	-6.60	9.18E-03	4084	3.80	7.78E-03	6352	-5.20	6.87E-03
1761	-5.20	3.31E-05	4099	3.50	5.13E-03	6367	-7.90	2.67E-03
1764	-4.00	1.28E-03	4103	-4.70	4.92E-03	6369	8.30	1.80E-11
1768	-5.20	5.59E-03	4106	4.00	5.60E-04	6372	-3.80	8.37E-04
1772	-5.80	5.72E-03	4107	7.60	9.82E-05	6373	3.60	1.77E-03
1774	-9.30	4.13E-03	4121	-4.20	2.61E-03	6385	-5.80	6.62E-08
1779	-4.50	2.07E-04	4122	-5.00	2.22E-04	6396	-7.80	4.79E-09
1780	6.10	2.67E-07	4130	5.20	6.46E-06	6400	4.10	1.05E-03
351								
1789	4.00	2.87E-03	4134	-3.90	1.38E-03	6404	3.80	6.43E-03
1790	3.20	2.29E-04	4141	-11.50	5.84E-09	6408	4.10	5.25E-04
1803	-4.80	7.57E-03	4149	-8.50	1.31E-12	6412	5.40	6.25E-05
1816	5.90	4.29E-03	4150	-3.90	2.55E-03	6414	3.30	9.62E-03
1819	-3.10	9.56E-03	4156	6.30	1.04E-07	6429	6.30	9.12E-08
1833	-7.60	1.30E-06	4158	7.60	5.55E-09	6433	-8.70	1.89E-13
1849	5.90	3.53E-05	4170	3.50	8.61E-03	6437	6.30	2.62E-05
1853	8.20	1.58E-03	4179	3.70	1.29E-03	6440	3.20	8.25E-03
1858	-4.60	1.16E-04	4188	3.90	3.66E-03	6444	-6.40	5.73E-03
1862	-3.80	1.75E-03	4197	-6.00	1.55E-06	6450	-4.30	4.85E-04
1863	3.90	4.40E-03	4199	3.30	8.39E-03	6454	-3.50	2.78E-03
1873	4.20	4.26E-03	4204	-4.80	3.64E-05	6455	6.20	1.17E-06
1875	-8.00	1.46E-04	4210	5.00	1.02E-04	6459	-3.10	8.05E-03
1876	3.90	4.69E-03	4211	3.70	6.69E-03	6464	-3.80	4.64E-03
1886	4.30	2.06E-03	4230	-8.40	8.55E-07	6467	-3.60	3.57E-03
1889	-8.00	3.71E-11	4242	-3.50	4.75E-03	6475	4.50	5.20E-03
1892	4.40	6.72E-04	4243	-3.50	3.77E-03	6478	3.20	6.94E-03
1900	7.60	4.63E-04	4250	-7.50	8.99E-03	6486	-4.80	1.21E-04
1904	-3.40	3.90E-03	4252	-3.30	6.21E-03	6487	5.30	1.60E-05
1905	-7.30	7.16E-03	4259	8.90	1.11E-09	6490	-2.80	1.03E-03
1906	-4.90	2.45E-03	4261	-4.30	1.78E-04	6494	-3.30	6.74E-03

1912	7.20	3.81E-04	4274	-5.40	6.43E-06	6504	-5.20	1.73E-05
1924	-7.60	2.69E-08	4279	-4.20	9.13E-04	6505	-4.60	1.77E-04
1926	4.80	1.73E-04	4285	6.20	4.34E-06	6521	-4.40	1.52E-03
1929	3.30	4.46E-03	4294	4.20	5.66E-04	6531	6.40	2.16E-04
1930	3.30	4.81E-03	4298	-4.10	1.08E-03	6537	-6.50	1.09E-07
1931	5.40	6.70E-03	4299	-5.10	1.68E-04	6540	-3.70	6.12E-03
1933	-3.60	5.48E-03	4301	-5.90	1.24E-03	6549	3.50	9.83E-03
1957	-4.60	1.40E-03	4304	5.90	9.05E-03	6556	-6.60	5.22E-04
1971	-4.40	1.42E-04	4309	5.00	3.12E-06	6564	6.20	4.88E-04
1974	3.40	4.18E-03	4327	4.90	9.90E-04	6565	3.30	5.83E-03
1983	3.20	2.78E-03	4344	8.40	1.03E-04	6571	-8.10	3.07E-04
1984	-8.50	2.86E-03	4348	-4.10	1.38E-03	6572	-8.00	4.09E-08
1985	6.20	2.05E-06	4350	3.30	2.51E-03	6582	3.30	4.69E-03
1987	-8.80	2.06E-06	4351	-3.50	3.89E-03	6584	-6.70	1.30E-08
1994	4.30	1.74E-03	4352	6.20	1.05E-07	6600	3.90	6.60E-03
2001	-6.90	6.64E-05	4362	-6.10	4.07E-05	6601	-6.90	6.54E-06
2008	-6.90	3.65E-05	4378	-3.60	3.25E-03	6603	-6.10	1.28E-03
2009	-4.60	5.59E-05	4379	-10.70	2.22E-04	6605	4.70	1.43E-04
2010	-4.80	6.59E-05	4385	3.40	3.39E-03	6621	-6.40	7.72E-07
2015	-8.60	2.37E-04	4399	4.90	6.70E-03	6638	4.20	1.35E-03
2016	3.40	6.78E-03	4408	6.00	3.40E-04	6639	6.10	9.77E-08
2024	5.70	3.00E-04	4410	-8.10	1.35E-08	6643	5.50	4.12E-06
2035	2.80	9.03E-03	4415	-4.70	2.60E-04	6646	-3.90	3.93E-03
2044	-8.80	1.58E-11	4419	-6.70	9.81E-04	6647	5.00	5.34E-04
2046	4.20	1.01E-03	4422	6.60	1.76E-06	6658	-5.30	7.24E-06
2048	5.60	1.00E-05	4427	-4.20	7.67E-03	6659	3.50	2.63E-03
2049	-3.90	2.21E-03	4430	5.90	1.05E-06	6660	-9.00	7.68E-10
2059	4.90	9.60E-04	4443	-5.70	6.63E-03	6672	-2.90	7.69E-03
2075	-3.80	2.75E-03	4444	-5.70	6.71E-03	6676	6.00	9.90E-05
2077	4.80	1.24E-06	4446	-5.50	6.46E-04	6679	-4.40	1.91E-04
2078	-6.70	3.35E-08	4457	-6.30	4.16E-03	6684	4.70	5.53E-03
2088	4.70	3.46E-04	4458	4.50	1.69E-04	6688	-6.30	5.83E-04
2091	7.00	2.47E-03	4459	-8.10	1.59E-10	6689	-8.70	1.20E-10
2107	11.40	1.73E-11	4460	-8.40	7.82E-11	6706	4.40	5.16E-04
2114	-8.20	1.63E-03	4463	-9.30	2.73E-07	6707	-4.30	4.08E-04
2125	8.50	2.74E-03	4467	6.40	7.69E-05	6721	-7.00	4.36E-03
2128	-4.20	9.03E-04	4468	-4.50	3.04E-03	6725	5.70	1.12E-03
2131	-15.40	8.51E-12	4469	-7.10	6.97E-05	6729	4.20	7.60E-04

2136	-5.10	2.37E-03	4471	-14.60	9.91E-07	6732	-3.90	2.26E-03
2140	4.60	6.78E-03	4473	-6.70	6.57E-03	6738	-5.20	2.63E-05
2144	-6.40	1.35E-07	4474	6.60	1.60E-06	6748	4.60	1.26E-04
2145	6.00	1.34E-07	4480	-6.30	7.99E-05	6749	-6.00	1.15E-03
352								
2152	-6.50	6.03E-05	4482	-6.40	1.34E-05	6755	4.10	1.01E-03
2162	4.10	9.06E-04	4487	4.90	1.88E-05	6776	-3.40	8.07E-03
2185	-4.70	1.81E-04	4488	-3.50	5.59E-05	6780	-5.50	3.52E-05
2194	-3.70	9.22E-03	4492	10.30	4.18E-11	6784	-4.40	2.06E-04
2201	5.60	1.22E-05	4501	3.80	2.32E-03	6787	4.20	3.55E-03
14206	6.10	3.94E-04	14677	5.90	1.25E-05	15281	-4.00	1.37E-03
14214	-10.80	1.92E-03	14679	-5.10	8.80E-03	15293	-4.20	1.06E-03
14219	4.70	1.87E-04	14694	-5.50	1.46E-03	15307	3.50	2.56E-03
14226	7.50	1.63E-04	14695	-3.80	4.78E-03	15320	-8.10	1.05E-03
14227	-3.40	9.22E-03	14697	-5.70	1.33E-05	15321	4.00	4.79E-03
14228	3.00	7.99E-03	14698	-5.00	1.21E-04	15328	-10.40	4.15E-03
14237	-6.10	2.11E-05	14699	-4.00	5.46E-04	15331	-10.60	5.87E-15
14249	-4.30	7.41E-03	14707	-6.80	3.91E-03	15333	3.90	1.52E-03
14253	-7.10	7.02E-06	14734	-3.70	6.18E-03	15337	-6.10	4.94E-05
14262	-3.90	9.26E-04	14738	-7.40	9.07E-04	15340	-3.80	1.95E-03
14265	-5.10	4.31E-05	14739	4.50	7.06E-05	15351	4.10	8.68E-04
14294	8.40	5.68E-04	14748	-4.00	5.70E-04	15363	-8.90	4.83E-04
14296	-5.60	3.07E-06	14756	-5.80	4.61E-06	15374	-8.30	3.51E-09
14297	3.40	4.56E-03	14767	6.30	5.83E-04	15379	-4.90	2.43E-04
14298	8.60	1.18E-06	14773	-7.10	4.18E-08	49	-3.31	5.00E-02
14299	-4.00	1.16E-03	14778	3.80	1.36E-03	268	-3.88	5.00E-02
14300	5.20	5.96E-05	14780	-4.90	8.04E-04	325	2.49	5.00E-02
14306	5.40	6.30E-05	14781	-12.60	3.17E-08	430	-2.23	5.00E-02
14309	3.90	1.28E-03	14783	3.40	4.25E-03	439	3.04	5.00E-02
14310	-4.00	1.69E-03	14791	8.20	4.07E-10	786	1.23	5.00E-02
14316	-5.50	4.88E-06	14797	6.60	7.87E-08	995	-2.22	5.00E-02
14333	4.00	4.71E-04	14808	4.20	5.60E-04	1000	-2.20	5.00E-02
14344	-6.50	9.01E-08	14818	4.00	7.66E-04	1493	-1.76	5.00E-02
14359	-6.00	7.29E-03	14820	-6.70	1.84E-06	1508	-1.97	5.00E-02
14360	3.90	7.24E-04	14831	6.30	1.02E-06	1682	-7.32	5.00E-02
14364	3.10	5.03E-03	14836	-5.00	6.90E-03	1695	-7.69	5.00E-02
14365	4.00	1.24E-03	14838	8.00	8.45E-04	1840	1.73	5.00E-02
14379	-12.60	1.97E-08	14841	5.70	4.92E-05	2274	1.21	5.00E-02

14380	7.60	1.25E-10	14873	-3.70	3.63E-03	2609	-2.20	5.00E-02
14381	-5.60	1.51E-03	14884	-4.10	9.57E-04	3219	-2.62	5.00E-02
14389	-7.30	1.75E-09	14891	6.70	3.10E-05	3301	-2.29	5.00E-02
14392	8.20	7.54E-08	14904	5.90	1.31E-06	3421	2.79	5.00E-02
14402	6.50	9.11E-03	14908	5.70	7.35E-06	3790	1.32	5.00E-02
14426	-4.30	8.54E-04	14925	3.60	1.80E-03	3857	3.16	5.00E-02
14436	-3.90	1.68E-03	14932	7.20	3.29E-04	3948	-1.98	5.00E-02
14450	10.50	6.64E-14	14944	-11.80	1.91E-06	4208	-1.70	5.00E-02
14451	-4.80	1.04E-03	14957	-7.00	2.41E-08	4617	-1.42	5.00E-02
14454	6.10	1.50E-03	14963	3.50	6.37E-03	4992	-6.42	5.00E-02
14463	5.10	1.80E-04	14973	4.50	3.24E-03	5090	4.02	5.00E-02
14472	4.70	9.74E-04	14983	-6.20	6.54E-03	5508	-2.26	5.00E-02
14476	6.90	3.65E-06	14996	-4.00	1.05E-03	7158	-15.40	5.00E-02
14479	-4.30	1.35E-03	15012	-19.90	9.76E-10	7191	-2.35	5.00E-02
14484	3.40	4.09E-03	15017	-8.10	5.58E-04	7354	1.75	5.00E-02
14507	3.10	9.34E-03	15042	-5.30	3.51E-03	7459	1.71	5.00E-02
14508	6.00	3.22E-05	15043	-7.00	1.53E-08	8505	-1.66	5.00E-02
14509	3.60	5.75E-03	15048	4.20	5.03E-03	8661	12.02	5.00E-02
14515	-4.00	1.26E-03	15078	4.40	1.58E-04	9972	-2.29	5.00E-02
14523	3.50	3.03E-03	15086	-5.40	1.05E-05	10360	-1.65	5.00E-02
14524	-5.10	4.36E-03	15103	-5.40	6.61E-04	10394	2.16	5.00E-02
14525	-8.60	3.17E-03	15113	-6.70	3.11E-04	10489	-1.98	5.00E-02
14534	-5.50	3.37E-03	15115	-5.00	1.55E-04	10981	1.79	5.00E-02
14535	-3.80	3.38E-03	15131	-3.90	1.43E-03	11043	-1.38	5.00E-02
14551	-9.20	2.10E-04	15132	5.30	6.75E-03	11230	8.04	5.00E-02
14572	5.00	5.34E-03	15162	-3.90	2.35E-03	11262	-9.96	5.00E-02
14575	-10.10	5.35E-06	15166	-6.90	4.91E-03	11358	-13.50	5.00E-02
14603	3.20	6.86E-03	15172	3.90	6.01E-04	11402	-5.34	5.00E-02
14612	-4.00	6.32E-04	15182	5.10	2.13E-04	11418	19.95	5.00E-02
14616	5.40	2.16E-03	15187	-12.70	3.00E-08	11424	-2.49	5.00E-02
353								
14626	-7.40	2.06E-10	15206	3.40	4.27E-03	11526	11.20	5.00E-02
14654	5.10	2.02E-04	15233	-5.30	5.87E-04	11575	4.03	5.00E-02
14658	4.10	1.30E-04	15236	-6.50	2.41E-03	11609	1.67	5.00E-02
14659	3.10	8.57E-03	15245	4.60	1.58E-04	11651	8.33	5.00E-02
14663	-4.20	6.54E-03	15252	4.50	3.30E-03	12016	1.20	5.00E-02
14667	5.20	3.58E-05	15260	-4.00	3.14E-03	12084	2.36	5.00E-02
12482	-9.00	7.92E-07	12897	5.30	4.33E-03	13404	-8.90	3.16E-03

12484	5.20	3.62E-03	12902	-6.50	5.42E-07	13406	-3.90	2.20E-03
12490	-6.70	8.30E-03	12905	-5.20	9.15E-04	13407	3.60	3.73E-03
12491	5.40	2.60E-06	12907	4.20	2.58E-03	13413	-4.60	8.09E-03
12498	3.50	2.87E-03	12917	-3.40	7.06E-03	13415	-5.30	3.94E-03
12503	3.30	7.97E-03	12927	-7.10	1.40E-09	13420	-6.50	2.05E-05
12506	-4.60	2.90E-03	12935	3.80	3.21E-03	13426	5.30	4.20E-03
12515	-4.50	3.77E-03	12941	-8.10	5.36E-04	13441	7.60	6.51E-10
12518	3.50	3.64E-03	12948	-7.80	9.67E-05	13447	-3.40	5.52E-03
12524	3.50	3.46E-03	12952	4.40	1.52E-04	13448	6.60	7.94E-07
12531	3.10	6.14E-03	12961	-4.20	8.90E-03	13466	-6.70	1.61E-08
12532	4.30	7.75E-04	12975	-6.10	4.05E-07	13484	3.70	7.47E-03
12536	-6.70	1.26E-07	12977	11.00	2.57E-10	13496	-5.90	1.57E-05
12556	3.20	2.00E-04	12980	-8.40	1.91E-06	13519	5.30	6.71E-03
12557	6.50	2.33E-05	12994	-4.00	1.81E-03	13527	-5.70	1.21E-06
12563	3.60	2.45E-03	12996	4.70	1.57E-04	13529	8.70	3.43E-08
12566	-6.00	5.56E-06	13001	3.90	3.63E-03	13542	-4.20	1.08E-03
12571	5.30	1.21E-04	13011	3.30	5.14E-03	13552	5.60	1.55E-06
12584	-8.50	3.39E-09	13025	5.80	2.76E-04	13554	4.80	4.22E-04
12588	-7.90	3.17E-04	13029	4.10	1.44E-03	13560	5.70	6.94E-05
12591	-3.60	6.28E-03	13031	-8.10	4.53E-04	13567	-3.90	1.66E-03
12592	3.70	5.92E-03	13038	-7.50	2.37E-03	13578	6.00	2.63E-07
12595	5.00	3.35E-04	13040	-6.20	2.66E-04	13583	4.70	1.06E-04
12598	-5.30	9.79E-05	13043	4.50	9.00E-05	13584	-6.00	2.93E-06
12602	-4.20	8.49E-04	13055	3.40	5.30E-03	13587	5.20	1.81E-03
12605	-5.10	2.18E-05	13059	-6.30	2.33E-07	13607	6.30	2.80E-03
12611	5.10	2.63E-05	13060	-4.50	6.14E-04	13608	7.10	3.16E-09
12613	-9.40	9.88E-12	13075	4.40	1.26E-04	13615	5.40	3.33E-03
12617	-7.70	1.71E-05	13098	5.00	5.89E-05	13635	-6.80	6.30E-09
12625	4.60	8.00E-05	13103	-5.20	2.76E-05	13637	-7.20	6.04E-08
12643	4.60	6.02E-03	13104	-4.10	2.01E-03	13646	-5.80	1.49E-06
12655	-3.60	2.79E-03	13113	-4.10	7.39E-04	13654	-5.10	8.53E-04
12665	4.80	6.78E-03	13131	3.10	8.28E-03	13656	-2.60	7.01E-03
12668	-9.60	3.10E-12	13143	6.60	4.25E-07	13675	-3.60	2.11E-03
12670	-5.90	9.09E-03	13149	4.30	1.90E-03	13687	6.20	3.29E-06
12674	-4.50	1.92E-04	13151	-6.50	9.85E-04	13689	-8.40	5.91E-05
12678	8.60	1.09E-03	13158	5.00	2.61E-03	13700	-4.30	8.74E-04
12679	-4.80	9.35E-03	13185	-3.40	4.21E-03	13706	9.40	7.11E-08
12681	-4.50	3.82E-03	13188	-4.10	1.46E-03	13707	-9.50	7.70E-04

12682	4.30	8.82E-03	13194	5.20	1.60E-04	13712	3.60	4.53E-03
12683	-4.90	2.34E-05	13200	8.00	6.55E-08	13720	8.10	6.73E-06
12685	4.20	3.62E-03	13205	4.00	9.77E-04	13727	-4.10	8.18E-03
12690	5.80	4.82E-04	13207	4.00	6.19E-03	13738	-5.30	4.78E-03
12711	4.10	2.89E-03	13212	-5.30	1.00E-04	13741	-3.80	2.51E-03
12716	-3.60	7.15E-03	13214	3.40	4.84E-03	13775	-7.10	5.67E-04
12720	-3.30	8.58E-03	13216	-4.60	2.21E-03	13791	3.50	3.84E-03
12725	-9.00	6.46E-10	13217	-4.70	2.08E-04	13812	-4.80	1.26E-04
12728	-6.80	2.22E-04	13253	-4.20	2.92E-03	13814	-6.60	9.22E-04
12732	-5.40	1.07E-05	13254	4.70	1.46E-04	13826	3.50	3.54E-03
12754	-6.10	2.14E-04	13255	-4.30	4.53E-04	13827	10.40	3.66E-15
12760	3.30	5.17E-03	13279	-6.30	9.74E-03	13834	5.00	1.58E-04
12766	-9.40	1.44E-07	13297	-10.90	7.41E-04	13836	-7.10	3.13E-05
12773	5.70	2.91E-04	13305	-5.00	2.58E-03	13837	-4.30	2.23E-03
12799	5.80	1.20E-05	13308	-8.10	5.38E-04	13847	4.20	7.84E-03
12807	-3.50	8.89E-03	13310	7.00	2.32E-08	13852	4.30	5.04E-04
12816	-9.00	7.88E-07	13312	-4.00	1.64E-03	13867	-6.00	6.81E-03
12833	-4.00	2.55E-03	13340	7.60	3.11E-05	13869	-5.10	3.51E-04
354								
12837	4.10	1.49E-03	13353	3.80	4.48E-03	13871	-2.70	2.12E-03
12840	-12.70	1.72E-08	13355	-3.60	3.96E-03	13878	-4.00	3.04E-03
12849	-6.90	2.89E-09	13361	4.50	1.65E-03	13889	-7.90	7.74E-04
12853	-4.90	4.12E-03	13378	-12.60	1.33E-08	13898	3.80	7.91E-03
12868	-3.60	1.67E-03	13383	5.80	2.67E-04	13906	-4.30	1.75E-03
12878	-3.90	2.62E-03	13392	-3.70	5.94E-03	13926	-8.20	5.09E-04
12880	-3.70	9.56E-03	13396	-4.70	7.43E-05	13935	3.30	7.66E-03

A	B	C	A	B	C
6806	-8.00	7.60E-08	8903	6.80	3.80E-06
6808	-8.70	7.04E-07	8913	5.10	1.12E-04
6809	7.00	8.09E-05	8921	-6.10	1.43E-04
6813	-9.20	1.21E-07	8927	4.10	2.42E-03
6816	-4.60	2.29E-04	8928	-4.30	2.69E-03
6817	-9.20	8.36E-04	8933	3.90	9.68E-04
6818	-4.80	2.01E-04	8938	-2.90	4.71E-03
6821	7.40	2.80E-05	8948	-6.00	2.75E-08
6822	7.30	3.53E-05	8952	3.90	9.11E-03
6823	7.40	2.87E-05	8954	5.30	6.39E-06
6824	5.00	3.25E-04	8958	7.20	1.88E-09
6835	3.80	1.89E-03	8960	-4.00	1.39E-03
6837	-3.90	3.15E-03	8965	-5.70	4.55E-06
6839	3.00	6.72E-03	8969	-5.60	3.19E-04
6842	-8.70	1.97E-04	8973	-3.30	1.39E-03
6849	-9.00	1.03E-03	8974	-3.20	1.80E-03
6859	-5.30	5.14E-03	8987	-4.20	1.24E-03
6862	-10.10	1.08E-04	8992	7.30	7.08E-06
6868	-7.50	1.76E-08	8993	7.30	7.33E-06
6870	-6.70	2.19E-03	8997	4.10	6.75E-04
6871	4.60	2.92E-04	9002	8.40	2.98E-07
6879	-5.80	2.05E-05	9003	3.50	5.56E-03
6885	-5.40	4.31E-03	9013	-6.00	2.28E-05
6889	-6.40	1.71E-07	9027	-4.40	7.02E-04
6890	-4.50	4.37E-04	9029	-5.90	2.95E-03
6906	5.40	4.60E-06	9043	-6.80	3.63E-04
6907	5.40	4.29E-06	9055	-6.80	6.49E-07
6915	-3.30	7.08E-03	9056	-6.90	6.22E-09
6919	-6.70	1.75E-07	9059	-6.00	1.12E-04
6924	-5.30	1.42E-03	9065	6.70	6.94E-05
6925	-10.40	1.33E-03	9072	5.60	1.12E-05
6936	-6.40	1.05E-06	9073	-4.00	3.89E-03
6941	-9.70	7.50E-05	9081	-3.50	2.50E-03
6945	3.50	3.54E-03	9083	-6.00	2.02E-03
6953	9.50	7.28E-15	9084	-4.40	3.96E-03

6955	-10.20	1.54E-03	9091	3.80	1.83E-03
6963	6.90	9.85E-09	9092	-4.50	7.03E-04
6964	6.90	1.51E-08	9093	4.00	2.21E-03
6965	4.30	2.32E-04	9094	4.40	2.34E-03
6976	3.40	4.06E-03	9096	-4.10	6.11E-04
6981	-2.80	9.16E-03	9097	-6.10	1.72E-03
6991	-5.00	3.79E-04	9101	3.20	6.63E-03
6993	-6.50	9.93E-04	9108	-6.10	1.70E-03
6997	-7.40	3.00E-05	9125	-8.40	5.84E-04
7006	4.50	5.61E-03	9132	-6.00	2.01E-07
7011	-4.10	4.85E-03	9135	-3.30	7.24E-03
7012	-4.10	5.14E-03	9136	-8.40	1.59E-03
7020	-9.50	9.30E-10	9138	6.40	8.21E-08
7021	10.70	2.15E-07	9154	-7.50	1.17E-04
7028	4.80	4.85E-03	9155	-5.00	7.13E-04
7041	-7.90	6.16E-04	9160	-4.70	7.22E-03
7048	-10.30	8.77E-07	9167	-3.30	7.36E-03
7049	3.70	1.25E-03	9168	-3.30	7.83E-03
7053	-3.30	5.26E-04	9173	4.70	1.43E-04
7056	-5.10	1.34E-03	9174	6.30	1.00E-03
7064	-5.50	1.07E-05	9180	5.20	7.57E-05
7066	-5.60	5.15E-04	9187	-3.90	5.19E-05
7068	4.40	1.77E-03	9188	3.90	1.57E-03
7071	-4.30	7.14E-03	9195	8.40	2.84E-03
7074	-2.80	7.84E-03	9200	-8.00	1.59E-09
7077	5.80	3.39E-03	9207	4.40	1.98E-04
7086	-5.20	7.98E-05	9208	-4.20	9.51E-03
7104	-7.50	7.83E-03	9210	-4.50	3.77E-04
7109	-5.10	1.67E-03	9217	5.40	9.40E-04
7113	2.90	9.16E-03	9219	-3.10	6.30E-03
7118	-4.40	6.52E-03	9222	5.00	7.05E-03
7126	-10.50	4.17E-03	9228	3.90	1.09E-03
7129	-3.90	1.35E-03	9230	6.90	1.48E-08
7135	6.20	5.97E-03	9231	-4.70	2.26E-03
7142	-5.10	2.32E-05	9236	4.00	7.15E-04
7143	7.30	1.24E-03	9244	-3.60	4.17E-03
7145	-5.40	5.92E-06	9258	10.80	1.98E-07

7149	8.00	5.29E-08	9259	-9.90	8.98E-06
7166	-4.20	1.53E-03	9260	-4.50	3.25E-04
7172	-3.80	1.44E-03	9261	3.80	1.89E-05
7174	-7.20	8.49E-06	9281	-4.00	1.76E-03
7181	-9.50	2.24E-03	9289	-6.20	1.67E-03
7182	8.60	9.46E-13	9300	5.40	1.14E-05
7184	4.60	9.34E-05	9301	10.70	6.53E-09
7189	5.10	2.83E-04	9305	10.00	1.08E-16
7195	-7.60	3.31E-09	9310	3.80	4.99E-03
7196	5.40	1.81E-05	9314	4.50	3.36E-03
7199	-4.00	3.46E-03	9315	-3.80	2.62E-03
7209	-6.30	1.20E-04	9321	-3.60	2.48E-03
7214	-7.40	5.18E-03	9327	-8.20	3.69E-06
7219	-4.30	2.93E-03	9329	3.90	8.51E-04
7221	-3.30	6.93E-03	9334	4.90	6.52E-03
7227	8.90	2.47E-10	9342	-9.20	9.34E-09
7228	9.30	2.43E-11	9347	-3.80	1.13E-03
7231	3.20	7.95E-03	9349	-5.80	8.61E-04
7232	-3.30	6.93E-03	9355	3.30	5.75E-03
7234	-6.20	8.96E-04	9364	-6.20	4.92E-06
7238	-4.90	5.85E-04	9368	4.50	1.28E-04
7239	-5.40	5.50E-03	9382	-5.40	3.88E-03
7247	4.10	5.62E-03	9388	-6.40	3.08E-04
7255	7.50	5.53E-04	9401	8.90	6.50E-07
7260	-3.70	6.37E-03	9402	-3.80	6.13E-03
7263	3.70	2.58E-03	9404	-3.50	4.82E-03
7266	3.40	7.22E-03	9413	-8.20	1.69E-04
7269	5.30	5.88E-05	9415	-3.30	1.51E-03
7270	-3.50	5.51E-03	9426	7.70	3.94E-04
7279	-7.80	5.96E-10	9432	8.50	2.49E-07
7285	6.20	2.75E-03	9433	-6.20	5.04E-04
7300	4.00	2.28E-03	9445	-5.60	2.24E-04
7302	-6.70	6.54E-03	9453	4.10	5.79E-03
7305	-6.80	1.64E-07	9455	4.10	5.05E-03
7309	7.60	5.67E-04	9459	-3.70	3.28E-03
7313	3.70	3.73E-03	9460	-4.00	8.60E-04
7321	-7.90	8.91E-08	9472	-5.70	1.16E-04
7343	-8.40	1.16E-03	9480	-9.80	2.64E-10

7351	-3.40	3.95E-03	9505	-2.90	6.02E-04
7352	-3.40	3.86E-03	9521	-6.00	3.48E-07
7357	4.00	2.27E-03	9532	-6.10	7.13E-04
7360	-4.70	9.11E-03	9538	-6.90	1.86E-04
7373	3.80	2.99E-03	9542	-9.20	8.57E-04
7374	3.50	2.73E-03	9543	-3.30	6.42E-03
7376	4.90	1.18E-04	9544	2.60	7.22E-03
7377	4.30	7.86E-03	9553	-7.40	5.60E-09
7388	-3.50	5.50E-03	9554	8.60	4.09E-13
7391	4.40	9.34E-03	9561	-9.10	4.75E-13
7398	6.00	1.66E-06	9566	4.60	2.68E-04
7401	5.50	1.27E-05	9582	5.60	1.87E-06
7410	-4.10	3.16E-03	9583	-6.80	2.94E-04
7411	-5.10	1.83E-04	9584	-6.10	1.55E-07
7414	2.60	8.45E-03	9587	3.10	8.84E-03
7417	-4.70	5.36E-03	9589	4.00	2.10E-03
7429	3.60	3.25E-03	9594	-6.70	1.22E-07
7431	7.00	1.35E-06	9595	-6.40	1.52E-05
7448	-5.70	1.04E-06	9608	3.30	8.29E-03
7449	-7.00	1.20E-07	9609	5.60	7.40E-05
7454	-5.40	1.12E-04	9614	-5.70	1.60E-04
7460	6.50	2.18E-06	9620	-8.60	7.51E-03
7461	-8.80	9.90E-06	9624	3.80	2.21E-03
7463	3.40	9.07E-03	9629	2.30	8.96E-03
7467	5.10	3.24E-04	9646	-4.50	3.03E-04
7468	5.00	3.46E-05	9655	-5.10	7.17E-05
7478	-7.00	4.70E-03	9656	-6.50	1.31E-06
7481	-7.10	7.00E-09	9665	-6.50	1.52E-05
7489	-7.10	6.91E-05	9671	4.40	2.48E-03
7493	4.90	6.83E-05	9676	6.40	7.22E-07
7494	4.60	1.49E-04	9677	5.10	2.33E-04
7495	-5.00	3.67E-03	9680	3.40	4.47E-03
7506	-3.70	1.86E-03	9684	4.90	1.37E-04
7507	-6.30	1.80E-05	9685	-4.90	3.76E-03
7508	-6.60	1.11E-03	9686	-4.80	6.41E-03
7509	4.80	1.44E-04	9691	-5.80	1.89E-06
7517	7.30	3.34E-05	9693	-4.10	9.74E-04

7519	-4.70	1.46E-04	9694	4.40	1.98E-03
7520	-4.70	5.90E-05	9697	-3.50	3.10E-03
7523	-6.30	4.97E-05	9699	-3.90	4.04E-03
7526	-3.50	4.85E-03	9707	-5.30	2.18E-05
7531	8.00	1.61E-03	9715	-4.40	2.19E-04
7536	-8.10	6.81E-04	9723	7.00	3.44E-04
7537	2.80	7.35E-04	9724	-6.80	6.25E-03
7539	2.60	4.85E-03	9730	-4.40	4.95E-03
7540	5.10	8.76E-05	9746	4.50	5.67E-03
7545	8.70	1.27E-10	9749	5.10	2.77E-05
7546	-8.50	5.68E-04	9750	4.80	9.40E-05
7549	-3.70	5.65E-03	9760	-6.40	1.37E-03
7556	-5.10	3.29E-04	9761	6.40	5.94E-08
7560	3.20	8.68E-03	9763	5.20	7.61E-05
7563	-7.40	4.79E-05	9771	-4.60	4.64E-04
7568	7.70	7.06E-06	9773	-6.90	1.01E-07
7578	6.40	9.87E-05	9777	-7.20	1.99E-03
7580	3.60	5.02E-03	9794	6.10	5.91E-07
7581	-2.40	6.97E-03	9807	5.20	7.70E-04
7583	-6.80	4.46E-04	9809	5.00	8.32E-04
7585	-6.90	3.29E-08	9828	-5.80	1.21E-06
7595	5.60	3.75E-06	9835	4.80	1.12E-03
7603	-5.00	3.03E-04	9849	-5.80	8.67E-06
7605	-5.20	1.58E-04	9851	-8.50	4.15E-05
7624	-7.20	1.98E-05	9858	-7.00	1.46E-10
7637	-6.80	4.07E-07	9859	-7.90	6.69E-10
7642	-3.40	1.84E-03	9868	6.30	1.25E-04
7643	4.40	3.54E-04	9872	-6.10	4.16E-03
7644	-4.20	3.54E-04	9886	3.70	7.21E-03
7652	-5.40	1.34E-03	9894	4.00	8.13E-04
7655	8.10	1.87E-08	9895	-5.80	1.28E-04
7658	-11.20	7.88E-04	9897	5.50	1.86E-04
7660	6.20	3.65E-04	9915	-4.70	2.15E-03
7668	-11.00	1.63E-07	9919	5.50	1.75E-06
7684	-5.00	4.31E-04	9927	7.60	5.34E-07
7688	-4.40	5.90E-04	9928	8.40	3.07E-06
7695	4.30	3.54E-04	9929	8.40	6.72E-04
7718	7.30	2.82E-03	9935	4.80	1.48E-04

7721	-4.40	4.88E-03	9936	4.80	3.36E-06
7722	-8.00	5.90E-04	9942	-5.10	4.82E-03
7723	-10.30	9.97E-07	9951	-5.60	6.37E-04
7727	5.90	2.03E-06	9959	3.40	4.47E-03
7736	-6.00	2.47E-03	9964	5.00	1.25E-03
7738	6.20	8.85E-08	9976	-3.80	1.78E-03
7745	5.80	3.92E-07	9977	-8.50	7.57E-05
7755	2.90	5.80E-04	9982	-3.10	8.75E-03
7757	-4.00	5.78E-03	9994	-3.10	8.00E-03
7763	-4.20	9.83E-03	9995	8.20	1.00E-11
7770	4.80	2.73E-03	10000	4.10	2.41E-03
7774	-6.90	7.38E-07	10003	-4.00	1.25E-03
7789	3.60	9.36E-03	10005	-6.70	2.73E-08
7796	-6.10	6.27E-06	10025	-4.40	3.57E-04
7810	-4.10	1.24E-03	10035	7.90	3.30E-09
7815	-6.60	2.08E-06	10048	-4.00	4.83E-03
7816	-6.80	5.48E-08	10052	-7.70	2.41E-04
7821	8.80	7.83E-08	10054	4.70	1.15E-04
7824	-4.30	4.85E-04	10066	-5.00	2.03E-05
7826	-3.50	4.89E-03	10069	-5.20	1.00E-05
7827	-7.50	9.42E-08	10076	-6.00	3.33E-07
7843	4.40	8.38E-04	10078	11.30	1.12E-03
7858	-4.00	1.07E-03	10081	-3.60	2.78E-03
7859	-3.40	5.68E-03	10082	-3.90	2.46E-03
7860	-11.60	1.94E-14	10092	-4.90	1.60E-04
7862	-3.10	8.13E-03	10093	-9.00	1.85E-03
7871	5.00	2.61E-04	10100	-7.70	1.16E-08
7872	-9.40	2.70E-07	10101	-7.30	9.95E-06
7873	6.70	8.62E-08	10102	7.40	8.35E-06
7876	-6.20	4.49E-07	10106	-9.10	1.02E-03
7877	-4.80	4.06E-05	10115	-4.40	5.74E-04
7879	-5.20	2.00E-04	10119	-4.40	2.62E-04
7885	5.10	1.24E-03	10120	-7.10	4.61E-04
7888	4.40	2.53E-04	10132	9.10	1.46E-09
7894	4.40	6.78E-04	10139	-4.20	3.94E-04
7914	4.80	3.34E-05	10140	8.00	7.27E-06
7929	-6.80	1.20E-07	10147	-5.10	7.05E-05

7937	4.50	2.14E-05	10157	-6.10	6.37E-07
7939	3.60	4.56E-03	10162	-4.40	1.04E-03
7952	6.30	3.84E-07	10171	-5.30	7.68E-03
7953	-3.50	5.88E-03	10177	4.50	4.19E-04
7954	-6.20	1.05E-03	10181	-6.70	3.69E-03
7963	4.30	3.47E-03	10186	4.70	7.05E-03
7964	4.80	8.43E-05	10187	5.10	4.41E-06
7965	4.80	2.08E-05	10198	4.30	1.27E-03
7976	-3.60	2.44E-03	10199	6.20	1.94E-07
7982	3.80	4.20E-03	10200	3.50	4.52E-03
7983	4.20	2.15E-03	10203	-3.20	8.58E-03
7986	-7.70	2.24E-04	10208	-5.40	1.65E-05
8006	3.90	3.22E-03	10240	-6.10	1.21E-03
8020	4.20	8.55E-04	10245	4.80	2.55E-04
8021	-4.00	3.50E-03	10255	-5.30	5.41E-03
8022	-4.70	3.97E-03	10263	-7.00	3.14E-10
8027	-4.30	5.30E-04	10265	-6.90	2.52E-04
8029	-4.70	5.79E-04	10286	-3.90	5.97E-03
8030	-4.70	4.41E-04	10288	8.10	6.57E-06
8053	3.70	3.27E-03	10291	-3.20	7.51E-03
8060	-6.20	1.73E-07	10299	4.50	5.09E-03
8066	-4.30	4.86E-03	10300	-5.10	3.41E-04
8067	3.90	1.77E-03	10327	4.20	4.07E-03
8074	-5.00	7.17E-03	10329	-3.70	8.28E-03
8075	-6.60	6.11E-09	10332	-5.80	7.46E-04
8077	-8.00	7.40E-06	10341	-3.70	6.35E-03
8081	-4.00	7.77E-03	10345	-3.40	4.30E-03
8083	-4.90	7.93E-05	10358	-4.20	8.78E-03
8087	-3.90	1.63E-03	10363	7.80	9.30E-12
8092	-9.70	7.13E-06	10367	3.50	6.17E-03
8094	6.10	1.52E-06	10371	-3.30	7.29E-03
8101	-4.40	5.64E-03	10374	-7.20	3.32E-11
8102	-3.80	1.55E-03	10383	-7.10	1.91E-04
8111	-4.90	1.66E-04	10387	-4.00	5.69E-04
8117	-4.90	4.52E-05	10393	-4.70	2.84E-03
8118	-5.60	8.32E-04	10395	6.80	1.03E-03
8119	-7.10	6.61E-11	10399	7.70	7.99E-10

8123	-3.10	8.41E-04	10402	5.20	1.41E-05
8134	7.60	2.01E-07	10409	4.60	1.01E-04
8135	-7.90	1.12E-04	10411	11.20	5.42E-04
8148	-7.70	1.26E-08	10438	3.70	8.43E-04
8152	5.80	1.82E-06	10444	-8.60	2.04E-10
8161	7.20	3.74E-09	10448	3.50	7.63E-03
8172	5.60	2.10E-03	10454	4.00	4.37E-04
8173	5.30	7.81E-06	10456	-6.60	7.44E-06
8189	-7.70	3.75E-08	10467	-4.10	1.87E-05
8193	4.40	2.93E-03	10470	-4.30	9.32E-04
8197	9.80	1.58E-03	10482	5.20	2.30E-03
8201	-7.30	1.34E-04	10495	-6.20	1.69E-05
8223	-9.10	1.53E-04	10507	-3.90	2.30E-03
8233	-7.70	2.94E-11	10515	-8.40	6.23E-05
8237	5.00	2.69E-03	10523	-8.70	3.24E-07
8238	5.20	1.68E-03	10531	-6.90	4.28E-05
8239	3.90	1.76E-03	10538	5.00	4.81E-04
8240	-6.80	2.83E-07	10539	6.20	3.47E-07
8244	-3.70	3.41E-03	10543	-8.20	2.30E-06
8245	4.20	8.59E-03	10548	4.20	4.02E-04
8246	-6.10	3.41E-03	10550	-4.70	1.89E-04
8255	-3.50	3.96E-03	10552	-4.60	6.51E-05
8256	-5.60	3.85E-03	10555	6.50	6.74E-04
8261	4.90	5.29E-04	10576	-5.00	2.31E-05
8262	-5.70	1.66E-06	10577	9.30	3.60E-04
8267	-5.40	9.81E-03	10588	4.10	1.55E-03
8274	3.30	5.38E-03	10590	-4.40	2.17E-04
8277	-7.30	2.06E-04	10596	-7.50	4.57E-04
8282	5.10	1.51E-03	10600	-6.50	2.02E-06
8285	4.10	6.37E-04	10605	-4.20	1.79E-03
8289	-3.30	7.29E-03	10608	-6.90	1.54E-07
8304	4.60	1.07E-03	10622	-6.90	1.20E-03
8309	-5.50	3.08E-04	10624	-3.80	4.65E-03
8312	5.80	1.63E-06	10625	4.30	1.41E-03
8327	-9.80	8.47E-05	10629	4.00	7.78E-03
8340	-5.70	1.63E-03	10631	-3.40	9.78E-03
8351	-3.70	1.13E-03	10635	-9.00	2.20E-03
8352	-5.90	3.78E-07	10639	-5.40	3.51E-07

8358	-5.50	4.42E-05	10649	5.50	1.37E-06
8361	3.30	4.88E-03	10655	-5.50	1.02E-05
8369	-8.50	8.18E-05	10677	4.30	1.71E-03
8373	-5.80	1.55E-03	10686	6.10	1.33E-03
8375	-9.60	1.82E-05	10697	-6.40	4.89E-06
8392	4.00	1.55E-03	10718	-6.30	5.95E-05
8415	-3.10	6.40E-03	10737	-9.10	3.54E-05
8421	-6.10	4.44E-06	10740	-5.70	2.52E-05
8423	-3.60	5.14E-03	10741	6.50	1.07E-03
8439	-4.20	5.86E-04	10746	-5.50	4.42E-08
8449	-7.80	2.45E-09	10748	3.80	7.92E-03
8451	-5.30	1.54E-04	10760	-3.20	7.21E-03
8454	-4.70	2.54E-04	10767	6.50	2.05E-03
8455	4.70	1.02E-04	10773	-6.40	5.20E-07
8467	5.10	5.86E-06	10777	9.70	1.85E-03
8473	-8.00	5.34E-12	10778	3.40	2.82E-03
8476	-5.30	6.22E-06	10802	6.50	1.94E-05
8477	-5.40	4.17E-06	10807	-4.80	8.19E-05
8478	-5.40	5.32E-06	10813	4.20	2.80E-03
8484	-4.40	9.10E-03	10818	-6.20	1.15E-07
8487	-5.90	6.51E-04	10819	-4.60	8.63E-04
8489	-6.80	7.94E-06	10821	8.90	2.84E-10
8501	7.70	2.37E-05	10838	5.50	4.05E-06
8503	-4.00	7.49E-03	10839	-7.10	3.21E-04
8506	-4.90	7.71E-05	10842	-4.20	3.82E-03
8508	-3.10	9.82E-03	10850	5.10	8.95E-06
8515	5.00	3.00E-05	10859	3.50	9.03E-03
8517	7.80	4.95E-05	10875	-4.50	3.19E-03
8521	3.70	2.82E-03	10878	3.20	8.87E-03
8530	-5.20	9.81E-04	10888	-8.90	7.66E-10
8541	6.70	9.01E-04	10892	-4.40	1.43E-04
8546	-3.40	4.11E-03	10900	4.60	5.51E-04
8547	-7.80	3.08E-04	10902	5.40	2.52E-05
8548	-8.30	6.50E-03	10944	-4.50	1.52E-03
8550	5.00	8.00E-05	10951	5.40	7.13E-03
8552	-4.30	7.92E-03	10962	7.00	1.07E-06
8560	-4.10	7.74E-04	10974	-6.20	2.66E-04

8562	3.30	5.80E-03	10980	3.30	3.17E-03
8577	6.70	6.83E-08	10992	-3.50	5.67E-03
8590	-4.20	2.87E-03	11003	-11.10	1.23E-06
8592	-4.80	3.03E-03	11009	-4.10	2.99E-03
8602	-8.70	1.28E-03	11014	-10.20	1.36E-05
8603	-8.00	1.14E-03	11032	-6.00	6.28E-06
8645	3.40	2.56E-03	11036	-4.80	1.58E-03
8650	-5.30	2.21E-03	11042	-6.30	7.92E-04
8658	-5.60	6.15E-04	11048	-8.50	1.50E-04
8676	-4.40	1.48E-04	11062	8.10	4.47E-12
8688	-5.10	4.40E-05	11082	3.90	3.49E-03
8689	5.10	1.18E-04	11086	-6.10	4.67E-04
8694	5.30	8.19E-05	11087	-4.30	1.71E-04
8698	-5.30	1.14E-05	11091	-4.20	7.93E-03
8707	-10.00	2.40E-05	11092	4.40	1.89E-03
8708	-10.30	1.58E-05	11093	5.80	4.30E-03
8711	-5.20	3.15E-03	11096	7.70	3.14E-04
8720	-5.70	2.47E-07	11097	3.60	7.80E-03
8728	-6.80	3.45E-06	11101	-4.00	6.55E-04
8731	5.30	7.07E-06	11102	3.20	5.51E-03
8733	-5.10	1.52E-04	11103	-5.30	5.78E-06
8740	4.80	7.35E-07	11112	5.00	2.10E-04
8744	-6.50	8.73E-07	11114	-4.80	1.30E-04
8747	-4.50	1.47E-04	11122	5.70	4.61E-04
8749	5.00	4.39E-04	11136	-5.60	2.44E-05
8754	5.20	9.96E-04	11140	-3.30	7.67E-03
8757	-6.90	1.59E-07	11147	-5.00	7.05E-03
8769	4.30	9.90E-04	11151	4.60	8.24E-03
8770	7.60	7.26E-09	11154	-3.90	3.81E-03
8773	-6.70	4.38E-08	11166	-5.80	1.46E-06
8774	5.20	1.38E-05	11172	-6.70	2.13E-08
8786	4.20	5.80E-04	11181	-9.50	5.72E-07
8792	-6.70	2.32E-03	11188	4.80	1.21E-04
8796	11.80	2.25E-04	11196	4.90	2.44E-05
8797	-5.80	5.93E-08	11212	-4.30	3.41E-04
8799	-4.10	9.15E-03	11217	-5.60	3.62E-03
8800	4.00	7.90E-03	11223	-5.10	5.39E-05
8805	-4.00	9.70E-04	11228	-10.90	3.61E-04

8810	-4.00	4.35E-04	11231	-4.30	2.54E-03
8818	8.50	2.77E-03	11235	-5.10	8.97E-03
8834	4.40	2.93E-03	11236	-7.70	4.57E-05
8840	4.60	2.26E-03	11239	5.10	7.30E-04
8846	-6.50	5.65E-04	11240	-4.60	1.40E-04
8849	-8.10	5.77E-04	11244	7.80	7.02E-11
8875	-3.80	1.08E-03	11277	-6.60	7.37E-08
8893	6.00	9.01E-07	11292	8.50	2.38E-10
8902	6.90	3.54E-06	11302	4.40	1.22E-03
12161	-6.88	5.00E-02	11306	-4.50	4.08E-05
12163	6.43	5.00E-02	11310	7.50	3.15E-10
12502	-15.08	5.00E-02	11311	-6.40	2.81E-07
12648	-13.94	5.00E-02	11322	-9.80	1.01E-05
12739	-10.49	5.00E-02	11323	-6.40	4.72E-04
12942	17.72	5.00E-02	11330	3.90	1.30E-03
12985	2.81	5.00E-02	11343	5.00	1.90E-05
13061	4.49	5.00E-02	11355	-8.20	6.90E-06
13445	2.02	5.00E-02	11363	4.40	2.71E-04
13450	-2.32	5.00E-02	11369	4.80	6.38E-04
13507	-19.83	5.00E-02	11374	3.40	5.26E-03
13617	15.68	5.00E-02	11382	-3.60	7.64E-03
13645	-1.49	5.00E-02	11383	4.70	8.50E-05
13674	8.53	5.00E-02	11384	-4.70	1.17E-04
13757	1.27	5.00E-02	11389	-5.10	8.93E-03
13758	-20.60	5.00E-02	11390	-4.30	1.87E-03
13853	-7.03	5.00E-02	11396	5.10	4.16E-05
14075	-1.46	5.00E-02	11400	6.50	1.63E-05
14091	-20.50	5.00E-02	11403	3.80	8.03E-03
14143	14.20	5.00E-02	11408	-6.00	8.25E-06
14289	6.43	5.00E-02	11412	-4.10	1.06E-03
14404	-16.06	5.00E-02	11417	5.10	1.64E-04
14437	-15.88	5.00E-02	11431	-3.60	2.85E-03
14449	-1.94	5.00E-02	11437	-3.90	9.39E-03
14541	-15.25	5.00E-02	11442	5.60	7.19E-06
14593	7.20	5.00E-02	11443	-3.70	6.82E-03
14604	-6.91	5.00E-02	11467	3.50	2.87E-03
14608	-4.35	5.00E-02	11468	-9.20	5.43E-04

14986	8.85	5.00E-02	11471	6.40	2.49E-08
14991	-33.32	5.00E-02	11472	-3.60	3.04E-03
15000	-2.34	5.00E-02	11475	4.00	7.28E-04
15038	10.84	5.00E-02	11477	-7.20	8.10E-03
15080	-9.66	5.00E-02	11492	-4.00	8.48E-04
15116	9.56	5.00E-02	11495	-4.10	2.29E-04
15125	21.99	5.00E-02	11496	-3.10	9.33E-03
11693	-5.30	1.09E-03	11497	6.70	3.11E-06
11705	-4.20	8.63E-04	11501	-4.40	2.33E-04
11719	-3.60	8.74E-03	11502	-5.50	4.89E-03
11722	-3.10	9.64E-03	11503	-5.60	3.11E-03
11726	3.30	4.29E-03	11510	4.30	2.73E-04
11728	-5.20	2.97E-03	11533	-4.30	2.40E-04
11741	-7.20	9.05E-07	11536	-5.20	1.83E-04
11743	-5.10	6.13E-04	11549	-8.20	6.52E-06
11756	5.50	1.72E-06	11551	-7.30	4.55E-09
11791	6.50	9.74E-05	11555	-5.30	4.28E-05
11803	-5.10	8.38E-04	11574	-10.00	2.33E-05
11809	-5.20	8.79E-05	11593	-5.70	4.01E-05
11812	-4.60	7.74E-03	11597	-4.00	3.20E-03
11843	5.90	5.07E-04	11600	-3.20	8.40E-03
11873	-6.30	2.07E-07	11602	4.40	3.50E-03
11887	-3.70	2.58E-03	11605	-7.10	1.67E-08
11892	5.00	1.82E-04	11618	4.30	1.91E-03
11894	-3.60	3.14E-03	11619	3.30	6.43E-03
11907	-5.40	3.36E-05	11621	3.70	7.15E-03
11909	-4.70	3.29E-04	11628	-7.30	3.29E-09
11912	-7.20	5.01E-04	11636	4.60	1.96E-04
11917	-8.60	5.25E-04	11638	6.40	1.14E-03
11922	-3.80	3.10E-03	11641	3.50	7.87E-03
11929	4.40	2.80E-06	11647	-13.40	5.45E-07
11932	-5.70	1.84E-03	11652	-8.40	3.71E-05
11939	-8.00	2.02E-08	11656	-7.00	4.60E-04
11944	-5.20	1.40E-03	11659	-3.20	8.58E-03
11950	4.70	2.42E-07	11673	5.00	3.30E-04
11959	4.20	9.70E-03	11692	-6.70	2.52E-03
11963	5.70	1.73E-06	13939	-3.80	2.75E-03

11967	5.30	4.55E-03
11977	-3.40	3.54E-03
12000	-6.00	2.60E-06
12039	3.30	7.29E-03
12046	5.90	1.45E-04
12058	4.20	4.87E-04
12062	-10.50	3.18E-05
12066	-7.80	1.40E-10
12067	-6.20	1.46E-04
12071	10.90	1.00E-03
12081	-8.20	2.10E-10
12086	-3.60	3.86E-03
12093	5.00	3.06E-04
12095	-6.40	1.58E-07
12115	-7.20	4.12E-04
12126	5.00	2.03E-05
12132	4.00	9.53E-04
12147	3.80	4.15E-03
12152	-5.30	4.27E-03
12154	6.00	9.29E-07
12162	-7.40	5.79E-10
12173	5.60	3.17E-05
12193	-4.50	8.66E-04
12194	5.40	5.98E-03
12210	-3.50	9.75E-03
12214	7.00	4.71E-06
12228	-6.70	2.85E-03
12235	-5.10	2.72E-03
12241	-6.30	9.97E-04
12250	-3.40	9.53E-03
12253	-7.00	2.42E-08
12257	-3.90	2.62E-03
12262	-6.20	3.05E-06
12274	-4.80	9.20E-05
12283	-6.30	3.41E-06
12286	9.00	4.20E-07
12293	-5.90	2.80E-04
12294	5.50	5.52E-03
13949	-6.40	4.00E-04
13954	-7.00	6.15E-04
13958	-5.80	7.08E-05
13959	5.50	2.86E-03
13980	-7.70	1.77E-06
13984	-3.50	3.64E-03
13994	4.90	3.92E-04
14008	4.30	3.59E-04
14009	4.60	8.71E-04
14036	-5.50	2.98E-04
14049	6.00	4.75E-07
14055	3.80	5.46E-03
14061	5.10	2.68E-04
14066	-7.60	3.53E-04
14079	6.90	3.87E-09
14081	-6.40	4.59E-04
14089	8.10	2.24E-10
14094	-3.90	4.88E-03
14101	-6.50	1.73E-05
14106	5.60	2.31E-07
14116	3.70	6.19E-03
14124	-7.20	1.04E-06
14125	4.30	2.68E-03
14133	-4.70	5.02E-04
14136	-5.50	5.52E-05
14153	-8.90	1.07E-07
14160	-2.80	7.43E-03
14164	-4.20	1.10E-03
14178	3.10	2.33E-03
14189	6.20	1.34E-03
14198	5.40	1.19E-03

12302	6.00	6.92E-05
12303	-7.40	3.65E-03
12305	4.70	1.11E-04
12315	-4.50	4.78E-03
12322	3.00	5.25E-03
12327	6.60	1.88E-06
12330	6.80	1.75E-07
12336	3.40	2.76E-03
12341	-6.20	7.06E-04
12353	3.20	9.42E-03
12356	-4.50	2.23E-03
12358	-3.60	2.44E-03
12364	8.00	4.12E-03
12378	-8.10	5.47E-03
12379	-6.60	3.33E-08
12381	-3.80	7.68E-03
12383	4.00	1.48E-03
12386	6.60	4.35E-06
12404	-4.40	3.50E-04
12407	5.70	7.07E-04
12412	-7.30	1.38E-09
12414	6.30	1.23E-04
12458	5.30	2.93E-06
12466	-8.00	3.00E-06
12477	-8.20	7.02E-06

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TABLE 21 - GENETIC MARKERS FOR ANGULARITY

A	B	C	A	B	C	A	B	C
3	0.08	2.40E-03	276	-0.17	7.29E-03	540	-0.14	2.96E-08
15	0.14	4.23E-05	282	0.08	1.08E-03	546	-0.08	4.06E-03
16	0.13	2.90E-06	285	-0.12	6.50E-05	550	0.14	7.52E-04
22	-0.14	1.01E-06	305	0.12	1.13E-06	552	0.11	1.42E-05
26	0.09	9.29E-04	307	0.13	3.20E-07	553	-0.09	1.08E-03
29	0.07	3.93E-03	312	-0.09	4.44E-04	561	-0.20	2.16E-07
33	-0.15	1.84E-04	315	0.11	1.36E-04	563	0.15	7.43E-06
35	-0.11	7.39E-05	317	-0.07	8.34E-03	565	0.13	1.15E-06
36	-0.22	4.67E-07	318	-0.15	3.93E-09	570	-0.08	2.67E-03
39	-0.31	2.13E-05	321	0.13	7.42E-04	578	0.09	8.78E-04
46	-0.19	5.93E-09	327	-0.08	7.63E-03	580	-0.13	1.03E-06
52	-0.22	2.43E-16	330	-0.22	3.03E-07	582	0.08	1.39E-03
54	0.10	2.64E-04	331	-0.13	2.68E-07	586	-0.10	3.01E-04
63	-0.15	6.25E-09	333	0.20	2.38E-15	588	-0.16	7.03E-04
66	-0.11	2.69E-05	335	-0.14	1.63E-05	592	0.19	1.33E-12
67	0.08	2.32E-03	336	-0.14	2.01E-06	595	-0.19	2.96E-10
71	-0.17	4.32E-07	337	0.15	7.50E-09	597	0.07	9.39E-03
73	0.10	3.37E-03	343	-0.40	1.66E-08	598	-0.07	8.72E-03
75	-0.08	1.72E-03	345	-0.17	7.96E-06	614	-0.12	3.52E-05
77	-0.14	5.29E-08	349	-0.08	4.54E-03	615	0.08	1.43E-03
86	0.12	3.25E-03	354	-0.13	1.98E-04	620	0.13	2.48E-07
99	0.20	7.47E-16	368	0.06	4.13E-03	623	0.14	1.78E-06
101	-0.24	6.37E-20	370	0.15	3.91E-06	629	0.19	4.15E-10
106	0.14	4.37E-08	372	-0.14	2.24E-03	633	0.08	6.16E-03
123	-0.07	9.02E-03	376	-0.20	3.56E-06	636	0.08	4.43E-03
126	0.19	1.76E-03	377	-0.18	5.06E-04	637	-0.13	1.61E-06
131	0.21	1.65E-16	381	0.12	8.85E-06	644	0.22	2.09E-19
135	0.13	2.59E-04	382	0.16	1.57E-08	645	-0.07	6.09E-03
141	-0.06	9.80E-03	393	0.19	1.52E-09	649	0.12	3.94E-07
143	0.12	3.33E-04	394	-0.17	5.66E-09	652	0.10	1.08E-03
145	0.12	4.74E-05	396	-0.16	6.69E-06	657	-0.09	5.78E-04
152	0.17	1.08E-07	397	0.14	1.32E-07	663	-0.14	1.83E-05
154	-0.12	4.05E-03	404	0.17	9.93E-09	664	-0.16	2.65E-09
162	-0.15	1.98E-03	408	-0.26	1.08E-11	665	0.10	1.99E-03
174	0.12	6.50E-04	410	-0.14	9.22E-09	667	-0.07	9.67E-03

176	-0.22	3.77E-16	411	-0.14	8.20E-09	668	-0.13	4.67E-07
177	0.12	4.37E-06	412	-0.22	3.40E-08	672	0.13	3.03E-07
181	0.11	3.45E-05	415	-0.11	2.64E-04	675	-0.07	6.29E-03
182	-0.09	2.94E-03	423	-0.11	1.62E-03	678	0.07	4.16E-03
185	0.10	6.95E-04	425	-0.13	1.00E-07	681	0.14	2.05E-08
191	-0.16	1.54E-09	429	0.13	3.87E-07	688	0.07	6.20E-03
193	-0.12	8.28E-03	433	-0.09	3.35E-03	690	-0.16	2.06E-06
194	0.09	4.11E-04	447	-0.13	1.88E-04	693	0.15	7.37E-04
203	-0.08	3.57E-03	465	-0.12	5.09E-03	696	-0.10	1.19E-04
206	0.11	3.05E-04	467	-0.14	9.43E-07	703	0.17	2.36E-10
215	-0.13	2.07E-03	476	0.20	6.02E-11	707	0.13	4.05E-07
217	0.16	9.29E-07	478	0.14	1.18E-08	708	0.12	3.20E-03
219	0.09	4.39E-04	479	-0.24	4.56E-04	718	-0.16	1.49E-07
220	-0.13	1.01E-05	488	-0.12	8.83E-05	723	-0.12	1.98E-04
222	-0.14	6.31E-07	497	-0.20	8.07E-09	724	-0.13	8.25E-06
225	0.07	6.17E-03	499	0.18	1.62E-07	726	-0.10	3.51E-04
231	-0.17	2.40E-06	505	0.08	9.39E-04	730	-0.10	7.16E-04
235	-0.09	9.82E-03	508	0.11	1.45E-05	735	0.11	2.73E-05
238	-0.10	1.06E-03	518	0.11	1.68E-04	736	0.09	6.29E-04
245	0.11	2.85E-04	522	-0.18	7.79E-04	753	-0.13	1.65E-07
246	-0.12	2.50E-03	525	-0.13	8.79E-04	760	-0.33	3.65E-07
249	-0.13	2.96E-06	526	0.11	5.10E-04	761	0.13	1.65E-03
251	0.07	5.37E-03	529	-0.14	1.33E-04	766	0.13	3.64E-06
257	0.13	3.17E-05	531	0.16	5.99E-07	768	0.07	9.34E-03
265	-0.09	9.67E-04	532	0.08	5.54E-03	769	-0.17	2.54E-11
272	-0.14	2.48E-07	534	-0.15	4.32E-07	770	-0.16	9.65E-03
356								
1560	0.15	1.25E-06	535	0.14	7.57E-06	772	-0.09	2.50E-03
1571	-0.10	9.67E-04	537	0.12	8.74E-08	773	0.06	7.92E-03
1573	0.07	7.53E-03	539	-0.08	4.03E-03	776	0.17	3.84E-11
1575	-0.12	6.81E-06	1813	0.10	2.05E-04	2068	0.11	1.08E-03
1577	0.11	3.12E-04	1815	-0.20	1.24E-05	2075	-0.19	9.75E-13
1580	0.08	3.12E-03	1820	-0.19	4.80E-07	2077	0.17	2.72E-14
1581	0.13	4.54E-05	1825	-0.11	9.87E-06	2088	0.11	7.82E-05
1583	-0.13	3.93E-03	1827	-0.11	1.24E-05	2089	-0.14	2.74E-04
1588	-0.17	4.87E-09	1829	-0.15	1.08E-03	2093	-0.11	2.20E-08
1599	0.22	5.27E-16	1836	-0.15	3.16E-05	2094	-0.08	2.16E-03
1601	-0.08	7.87E-03	1837	0.07	6.41E-03	2099	-0.11	8.95E-03

1612	0.12	8.57E-07	1846	-0.19	3.51E-05	2101	-0.08	9.70E-03
1614	0.15	6.56E-09	1853	0.18	1.50E-04	2102	-0.08	1.51E-03
1615	-0.18	3.81E-04	1858	-0.12	4.73E-06	2105	0.11	2.08E-03
1616	0.18	2.76E-12	1859	-0.09	1.68E-03	2107	0.19	5.36E-10
1617	-0.09	3.97E-04	1862	-0.18	4.84E-11	2108	0.15	9.64E-03
1618	0.07	8.65E-03	1867	-0.15	2.71E-04	2114	-0.15	2.02E-03
1620	-0.19	3.16E-12	1869	0.17	2.31E-10	2115	-0.20	5.81E-04
1622	0.11	1.51E-04	1871	-0.09	2.62E-03	2116	-0.17	8.00E-03
1625	0.07	7.60E-03	1875	-0.21	7.98E-06	2123	0.10	3.64E-03
1628	-0.10	1.03E-03	1876	0.08	1.87E-03	2125	-0.19	3.18E-03
1629	-0.10	9.26E-04	1879	-0.09	5.21E-03	2126	0.13	4.52E-06
1630	-0.11	2.01E-04	1884	-0.18	6.36E-08	2128	-0.12	2.51E-05
1637	0.19	2.12E-11	1889	-0.17	9.37E-10	2131	-0.15	3.66E-03
1640	-0.19	2.84E-08	1890	0.18	1.01E-07	2134	0.13	3.84E-06
1642	0.08	3.36E-03	1893	0.09	4.48E-03	2138	0.08	5.52E-03
1644	-0.25	3.17E-11	1900	0.14	4.15E-04	2141	0.05	6.35E-03
1648	0.07	8.25E-03	1910	0.19	2.55E-05	2145	-0.10	6.48E-05
1652	0.07	6.40E-03	1922	-0.11	1.83E-05	2146	-0.07	7.59E-03
1653	0.22	6.30E-20	1925	-0.08	3.64E-03	2163	-0.11	8.05E-03
1661	-0.08	4.41E-03	1926	0.10	3.22E-04	2172	0.10	4.57E-04
1668	0.10	7.66E-04	1927	-0.14	4.73E-04	2178	0.12	1.17E-03
1671	-0.08	7.96E-03	1928	-0.15	1.24E-07	2187	-0.13	4.30E-04
1677	0.11	2.72E-05	1929	0.08	8.77E-04	2192	-0.14	6.82E-03
1681	0.20	3.88E-11	1930	0.08	9.66E-04	2195	-0.15	9.05E-08
1684	0.17	6.59E-09	1931	0.14	5.51E-04	2200	-0.24	8.98E-06
1686	0.12	4.01E-06	1938	-0.13	4.24E-05	2203	-0.12	3.87E-04
1696	-0.20	4.02E-03	1939	0.12	2.08E-06	2210	-0.11	1.06E-03
1705	-0.23	1.60E-06	1941	0.23	8.96E-19	2211	0.10	3.58E-04
1718	0.10	2.37E-04	1942	-0.11	6.47E-04	2218	0.12	6.59E-06
1722	0.20	3.76E-15	1956	0.15	8.54E-06	2224	0.17	5.99E-11
1727	0.07	3.44E-03	1964	0.09	9.05E-04	2227	-0.15	1.38E-05
1730	0.13	3.29E-07	1965	0.10	1.46E-03	2228	-0.17	1.92E-04
1731	-0.11	9.35E-05	1971	0.08	8.47E-04	2229	-0.09	4.06E-03
1737	0.13	8.49E-05	1974	-0.13	6.14E-08	2231	0.15	3.29E-06
1740	-0.10	8.43E-04	1978	-0.20	1.34E-05	2232	-0.10	8.89E-03
1741	0.09	7.15E-04	1980	0.08	7.60E-03	2249	-0.09	1.91E-03
1743	-0.16	3.79E-03	1981	0.20	2.33E-11	2250	-0.14	8.32E-07
1744	0.11	3.95E-04	1986	-0.16	4.37E-03	2251	-0.09	6.18E-03

1745	0.10	6.77E-04	1988	-0.12	6.31E-05	2260	-0.12	4.35E-04
1751	0.19	3.90E-14	1990	-0.17	2.14E-04	2261	-0.14	9.10E-08
1752	0.14	8.14E-07	1993	0.12	2.14E-05	2262	-0.08	2.92E-03
1764	-0.09	1.99E-03	1996	0.19	5.39E-07	2267	0.07	6.81E-03
1768	-0.17	1.53E-05	2002	-0.36	2.32E-04	2275	-0.17	4.69E-11
1776	-0.20	9.73E-10	2009	-0.11	1.98E-05	2284	-0.12	1.00E-05
1778	-0.11	9.83E-03	2018	0.13	5.00E-07	2285	-0.15	7.85E-08
1780	0.23	1.16E-19	2019	0.14	1.04E-07	2293	0.09	2.44E-04
1789	0.09	2.84E-03	2024	0.14	2.03E-05	2294	0.09	2.25E-04
1790	-0.12	6.93E-10	2026	-0.07	5.33E-03	2295	-0.13	1.24E-04
1795	-0.10	5.20E-03	2030	0.11	5.83E-05	2300	0.21	2.49E-18
1799	0.08	7.34E-04	2035	-0.08	5.73E-04	2303	0.20	3.47E-10
1804	-0.21	1.56E-04	2037	-0.10	7.46E-04	2304	0.07	7.32E-03
1805	-0.19	4.21E-08	2038	0.21	1.70E-05	2314	0.11	2.58E-06
357								
1806	0.21	1.40E-03	2044	-0.15	1.02E-07	2315	0.17	2.04E-10
3100	-0.14	3.61E-05	2049	0.16	1.42E-09	2316	0.17	6.60E-10
3103	-0.09	9.58E-03	2056	-0.14	2.24E-07	2320	-0.08	5.29E-03
3111	0.09	1.93E-03	2059	0.14	5.42E-06	2323	0.14	1.99E-09
3118	-0.13	3.59E-05	3322	-0.22	5.65E-12	3631	-0.14	4.23E-07
3122	0.09	1.37E-03	3327	-0.13	5.22E-03	3636	-0.10	3.33E-03
3124	-0.18	1.68E-12	3333	0.12	3.65E-04	3649	0.07	6.10E-03
3126	0.12	7.77E-05	3334	-0.15	1.42E-05	3655	-0.11	4.90E-03
3129	0.16	9.95E-10	3344	-0.11	3.57E-05	3656	-0.07	9.17E-03
3131	0.08	1.52E-03	3353	0.17	1.29E-09	3658	0.15	7.91E-05
3133	0.07	3.71E-03	3359	-0.13	1.34E-06	3661	-0.11	4.90E-05
3139	-0.10	6.28E-04	3367	0.09	5.97E-03	3667	0.13	1.20E-05
3142	0.11	9.26E-06	3371	0.16	4.03E-10	3668	0.11	1.20E-05
3143	-0.09	1.23E-03	3372	-0.11	1.13E-06	3673	0.26	9.82E-08
3144	-0.13	2.84E-06	3376	0.08	5.22E-03	3683	-0.14	1.24E-06
3145	-0.13	1.56E-06	3379	-0.26	4.60E-07	3690	0.09	5.30E-04
3146	0.08	6.69E-03	3390	0.11	7.99E-03	3695	-0.13	2.51E-03
3149	0.10	1.35E-03	3391	0.12	7.67E-08	3700	0.10	3.81E-04
3153	-0.14	2.27E-07	3392	0.18	1.30E-07	3703	0.08	5.92E-03
3158	-0.08	8.74E-04	3396	-0.17	6.96E-08	3704	0.11	6.65E-04
3165	-0.21	1.59E-09	3406	-0.06	9.82E-03	3706	-0.20	9.71E-12
3166	-0.07	4.88E-03	3407	0.12	1.82E-06	3713	0.11	4.97E-04
3167	-0.13	2.98E-04	3417	0.12	2.77E-06	3714	-0.07	5.89E-05

3168	0.09	8.23E-04	3419	0.10	1.44E-04	3715	0.10	9.01E-04
3169	0.07	9.00E-03	3420	0.11	3.31E-05	3716	0.10	5.59E-04
3170	0.10	2.59E-03	3423	0.10	2.69E-04	3722	0.08	9.09E-04
3176	0.07	5.85E-03	3438	-0.10	6.62E-08	3723	-0.17	3.43E-03
3177	-0.12	3.28E-03	3439	-0.20	8.78E-07	3728	0.14	5.38E-06
3183	-0.14	9.99E-07	3446	0.16	4.37E-05	3729	-0.16	1.88E-07
3184	0.13	2.07E-07	3451	0.10	9.89E-03	3730	0.06	1.73E-03
3189	-0.20	1.22E-14	3455	-0.11	1.98E-04	3731	0.07	6.98E-03
3190	0.18	1.43E-07	3463	-0.08	1.06E-03	3735	-0.14	1.26E-03
3191	-0.13	3.69E-06	3465	0.09	1.61E-03	3738	-0.08	1.26E-03
3192	-0.14	2.03E-06	3466	0.07	9.86E-03	3740	-0.15	4.10E-07
3196	-0.17	3.22E-08	3467	0.11	4.84E-06	3742	-0.11	1.77E-03
3200	0.08	3.92E-03	3468	0.10	8.66E-05	3749	-0.17	7.24E-10
3203	0.09	3.44E-04	3485	-0.22	6.89E-14	3752	-0.11	4.22E-05
3205	-0.15	5.87E-03	3489	0.13	6.32E-07	3753	-0.17	1.03E-08
3206	0.19	2.71E-04	3491	0.21	8.31E-18	3759	-0.16	6.04E-06
3210	0.06	8.57E-03	3503	-0.13	1.38E-04	3760	0.13	1.65E-08
3218	-0.16	1.61E-07	3506	-0.13	2.36E-03	3762	-0.17	5.60E-04
3220	0.15	6.04E-08	3510	-0.11	1.77E-04	3763	0.14	4.09E-05
3222	0.07	7.29E-03	3514	-0.14	1.85E-06	3765	-0.10	6.39E-05
3227	-0.11	1.56E-03	3523	0.10	1.78E-04	3768	-0.15	4.06E-03
3237	-0.06	6.48E-03	3539	0.12	3.11E-06	3770	0.09	3.08E-04
3239	-0.11	4.69E-03	3548	-0.28	1.90E-05	3772	-0.24	1.64E-09
3240	-0.11	4.42E-03	3550	0.12	1.01E-05	3776	-0.20	2.73E-13
3241	-0.10	9.87E-03	3554	0.09	3.11E-07	3779	0.07	7.83E-03
3245	0.13	3.14E-06	3557	-0.18	1.44E-03	3780	0.15	2.35E-09
3248	-0.23	6.62E-07	3558	-0.24	2.01E-18	3788	-0.17	4.14E-09
3250	-0.08	6.82E-03	3559	-0.37	4.93E-08	3792	-0.08	9.43E-03
3254	-0.09	9.30E-03	3568	0.12	3.26E-06	3793	-0.11	6.06E-05
3258	0.12	1.01E-05	3569	0.10	8.48E-05	3796	-0.20	1.05E-06
3266	0.08	2.31E-03	3574	-0.10	6.03E-03	3797	-0.18	2.38E-06
3270	0.09	2.30E-03	3579	0.09	3.43E-05	3804	0.08	1.35E-03
3281	-0.15	4.43E-04	3580	-0.15	1.05E-03	3805	0.10	1.54E-03
3286	0.13	3.52E-07	3582	-0.09	8.29E-04	3808	-0.07	7.62E-03
3302	0.10	1.47E-04	3585	-0.08	4.36E-03	3810	-0.10	2.84E-04
3303	0.10	1.53E-04	3588	-0.08	2.61E-03	3812	-0.17	4.14E-11
3310	0.11	1.31E-05	3593	-0.24	4.18E-16	3823	-0.08	2.85E-03
3312	-0.17	2.52E-10	3594	0.17	3.79E-07	3825	0.12	2.43E-03

3313	-0.17	1.13E-09	3595	-0.21	1.09E-04	3841	-0.14	2.59E-03
3317	0.15	3.23E-09	3599	0.19	3.46E-09	3851	-0.10	2.51E-03
358								
3318	0.11	5.28E-04	3601	-0.11	6.31E-04	3859	-0.17	5.34E-12
3321	0.11	1.21E-05	3613	0.09	2.44E-04	3862	0.08	1.84E-03
4619	-0.19	2.71E-12	3614	-0.15	6.11E-07	3866	0.11	4.50E-06
4620	0.09	6.37E-04	3618	0.13	3.42E-07	3877	0.07	3.79E-03
4622	-0.14	5.95E-07	3625	0.09	1.90E-06	3878	-0.13	1.58E-07
4623	-0.08	7.33E-03	4894	-0.10	3.93E-04	5204	-0.11	1.35E-04
4629	0.13	1.34E-07	4898	0.12	4.40E-09	5205	-0.11	6.65E-04
4634	-0.19	1.88E-06	4905	-0.23	6.71E-07	5207	0.16	9.60E-06
4644	0.07	7.48E-03	4911	0.12	1.95E-04	5219	0.15	4.63E-06
4651	0.20	3.97E-11	4920	0.12	3.50E-07	5221	0.11	5.97E-04
4654	-0.21	1.00E-07	4934	0.09	1.52E-03	5223	0.13	5.06E-07
4662	-0.11	2.57E-04	4936	-0.11	1.92E-03	5229	-0.14	7.02E-04
4664	0.09	3.08E-04	4937	0.07	7.63E-03	5230	0.15	6.10E-09
4669	-0.09	3.55E-03	4938	0.14	2.15E-07	5235	-0.15	2.84E-06
4670	-0.14	1.87E-05	4946	-0.08	1.66E-03	5239	-0.10	1.75E-03
4671	-0.08	8.68E-03	4951	0.16	2.37E-09	5242	0.09	6.55E-05
4675	0.10	2.35E-04	4964	-0.11	2.64E-05	5247	0.10	8.64E-05
4678	0.19	1.02E-07	4967	0.09	6.18E-05	5249	-0.08	3.59E-03
4679	-0.19	1.85E-13	4970	-0.14	2.08E-04	5253	0.08	1.15E-03
4687	0.10	3.43E-04	4976	-0.22	2.90E-06	5261	-0.16	4.26E-08
4688	0.09	1.00E-03	4982	-0.10	2.36E-04	5262	0.11	2.81E-03
4690	-0.18	2.91E-05	4985	-0.08	2.59E-03	5273	-0.08	3.35E-03
4691	-0.17	2.22E-08	4986	-0.14	4.06E-05	5274	-0.08	2.76E-03
4696	-0.14	1.45E-06	4991	-0.12	7.86E-06	5275	-0.11	2.36E-04
4702	0.07	9.10E-05	4996	-0.22	3.74E-07	5285	-0.17	1.60E-08
4703	0.13	9.72E-06	5003	-0.19	2.10E-04	5291	0.11	4.66E-03
4708	-0.13	2.08E-03	5010	-0.16	2.07E-06	5293	-0.14	2.17E-03
4728	0.08	2.76E-03	5016	-0.08	5.18E-04	5302	-0.11	9.30E-06
4746	0.13	9.14E-06	5025	0.16	4.04E-10	5307	0.05	4.36E-03
4753	-0.10	6.30E-06	5030	-0.08	2.73E-03	5308	-0.12	1.07E-05
4757	-0.08	2.88E-03	5034	0.08	3.28E-03	5317	0.16	1.42E-09
4758	-0.16	3.22E-07	5037	-0.14	4.27E-08	5319	-0.15	1.17E-03
4760	-0.16	3.06E-06	5046	-0.08	2.86E-03	5322	0.16	8.97E-03
4761	-0.16	2.36E-06	5057	-0.19	3.72E-07	5329	-0.27	1.06E-07
4763	-0.08	2.99E-03	5060	0.09	1.45E-03	5330	0.09	1.27E-03

2145	-0.70	3.46E-04	4529	-2.50	2.89E-05	6904	0.40	3.89E-03
2146	-0.50	4.53E-03	4531	0.60	2.89E-03	6909	-1.00	7.25E-03
2163	-1.50	1.90E-06	4536	0.80	3.81E-06	6910	1.20	2.95E-08
2172	1.40	2.55E-12	4537	-1.00	4.12E-04	6916	0.70	4.76E-05
2175	-0.90	1.65E-03	4542	1.70	2.88E-22	6919	-0.90	7.08E-06
2176	0.70	2.87E-05	4543	1.40	3.11E-11	6926	0.90	5.91E-05
2177	0.60	2.32E-04	4544	-0.60	1.04E-03	6928	1.00	1.60E-07
2178	1.00	4.52E-05	4545	0.60	5.95E-04	6933	-1.20	1.21E-03
2185	0.70	1.38E-04	4549	0.80	5.70E-04	6934	-1.20	1.27E-03
2187	-2.00	4.62E-11	4558	0.70	2.35E-03	6936	-1.20	1.25E-08
2197	1.00	1.60E-04	4559	0.70	2.30E-03	6938	-0.90	3.09E-08
2200	-1.00	1.47E-03	4562	-0.70	9.68E-05	6939	1.00	3.11E-07
2203	-1.30	3.01E-05	4567	-1.00	1.42E-04	6942	-0.50	1.53E-03
2215	0.90	1.40E-06	4578	1.30	2.51E-15	6945	0.90	2.81E-07
2218	0.80	6.43E-06	4580	-1.70	4.89E-09	6953	1.70	3.62E-26
2219	-0.60	1.00E-03	4581	1.70	2.87E-24	6954	-0.80	1.37E-04
2222	0.70	1.44E-03	4582	1.50	4.36E-18	6962	1.30	3.00E-14
2224	0.60	1.12E-03	4583	1.80	2.68E-25	6976	0.70	6.79E-05
2226	-1.70	9.76E-04	4585	-2.20	2.05E-05	6980	-0.70	7.85E-05
2227	-1.20	1.47E-07	4586	-0.60	9.57E-04	6985	0.60	1.32E-03
342								
2228	-1.70	1.06E-06	4589	0.70	6.48E-04	6986	1.00	1.80E-04
2229	-0.90	1.20E-04	4591	-1.40	8.34E-03	6989	-1.20	3.04E-04
2231	1.50	2.57E-13	4602	1.60	1.97E-22	6996	1.70	4.98E-24
2232	-0.70	5.18E-03	4606	-0.90	7.91E-08	6998	-1.20	8.82E-07
2239	0.50	2.87E-04	4607	-0.90	1.73E-07	6999	-1.70	2.31E-20
2248	-0.50	2.81E-04	4608	-1.10	1.57E-08	7004	0.80	5.81E-06
2250	-1.60	2.47E-18	4610	0.80	2.67E-05	7006	1.10	3.53E-06
2251	-1.10	4.04E-07	4614	-0.80	2.00E-05	7011	-0.60	7.36E-03
2257	-0.70	2.51E-03	4615	-1.50	8.69E-06	7012	-0.60	4.34E-03
2260	-0.70	2.39E-04	4616	-0.60	8.41E-04	7013	-0.90	1.62E-06
2261	-1.00	2.41E-07	4619	-1.30	4.42E-11	7018	-1.20	3.28E-05
2268	-1.20	4.17E-06	4620	0.50	6.65E-03	7023	-0.70	8.09E-04
2271	0.50	3.05E-03	4622	-1.30	4.29E-13	7025	-0.80	1.83E-05
2275	-0.70	8.00E-05	4623	-0.60	1.71E-03	7027	-1.00	4.43E-05
2283	-0.90	3.35E-05	4627	-0.70	2.19E-03	7028	1.50	8.13E-11
2284	-1.00	2.72E-07	4629	1.30	3.48E-16	7044	-1.10	5.51E-07
2285	-0.80	2.82E-05	4634	-1.90	4.35E-10	7048	-1.10	2.44E-04

2291	-1.20	6.06E-05
2293	1.50	1.41E-16
2294	1.50	1.61E-16
2295	-0.80	1.03E-04
2300	1.70	1.52E-23
2303	1.30	8.91E-12
2304	0.80	3.71E-05
2311	0.40	4.06E-03
2315	0.50	5.88E-03
2316	0.90	1.29E-06
2318	-0.90	1.61E-05
2323	1.00	1.95E-11
2324	-1.00	9.51E-07
2325	-1.50	2.73E-16
2328	0.60	1.43E-03
2329	-0.80	1.44E-04
2334	-0.70	8.96E-05
2335	-2.20	4.22E-21
2343	1.20	9.16E-13
2344	0.60	1.05E-03
2345	-0.80	6.76E-06
2353	0.90	1.24E-04
2354	-2.50	1.50E-07
2357	0.70	1.26E-03
2362	-0.80	5.75E-04
2364	-0.70	2.55E-04
2369	-0.90	8.16E-07
2371	-0.80	4.97E-03
2373	-1.50	2.71E-07
2383	-0.60	1.97E-03
2388	-0.60	1.44E-05
2389	-1.00	8.04E-08
2390	-1.00	4.82E-06
2391	-0.60	1.93E-03
2393	-0.60	2.01E-03
2394	-1.10	2.17E-07
2399	-0.50	2.74E-03
2400	1.10	5.34E-09
4647	0.70	2.34E-03
4651	1.40	1.06E-12
4654	-1.90	6.47E-15
4662	-1.00	2.90E-06
4664	1.50	5.17E-16
4670	-1.20	1.70E-07
4671	-1.40	7.91E-11
4675	0.90	4.20E-07
4678	1.00	1.92E-06
4679	-1.30	2.84E-13
4687	0.80	4.60E-06
4688	0.70	6.04E-05
4689	-0.50	7.80E-03
4690	-2.00	8.56E-11
4691	-1.10	7.00E-07
4694	-1.20	3.74E-09
4696	-1.50	2.05E-16
4702	0.40	3.13E-03
4708	-1.20	8.21E-05
4714	-0.70	1.40E-03
4725	-0.60	4.66E-03
4726	1.10	3.62E-06
4728	0.90	1.32E-06
4731	-0.90	2.52E-03
4734	-1.00	7.49E-04
4737	-0.70	7.94E-04
4738	-0.60	1.84E-03
4739	-0.80	7.03E-05
4740	-0.70	1.07E-04
4746	0.90	1.76E-06
4753	-0.50	4.20E-03
4756	1.30	4.61E-15
4757	-0.60	3.33E-03
4758	-0.70	1.04E-03
4760	-1.70	1.08E-13
4761	-1.70	9.00E-14
4762	0.50	2.44E-03
4763	-0.60	8.72E-04
7049	0.50	7.82E-03
7052	-1.50	3.68E-03
7053	-0.80	5.11E-08
7055	-0.80	4.31E-05
7056	-1.00	4.10E-04
7063	0.50	1.19E-04
7064	1.20	8.24E-11
7068	0.90	1.41E-05
7069	-1.00	7.14E-05
7071	0.60	4.66E-03
7072	-1.20	2.27E-10
7073	-1.20	2.27E-10
7078	-0.70	4.34E-03
7079	0.90	1.34E-07
7082	1.10	1.19E-07
7086	-1.80	1.08E-15
7088	-1.20	8.78E-06
7091	-0.50	9.15E-03
7098	1.00	5.39E-08
7101	-0.80	3.14E-07
7104	-1.10	5.55E-03
7106	0.90	1.26E-06
7108	-1.30	7.61E-06
7112	-1.20	1.65E-08
7116	1.70	1.43E-24
7122	-1.50	1.69E-06
7123	0.90	3.60E-07
7128	1.20	3.93E-11
7129	-1.10	5.89E-09
7130	1.30	1.94E-08
7135	1.60	2.87E-05
7136	1.60	7.43E-05
7139	-1.00	8.66E-05
7140	-1.40	3.43E-03
7145	0.50	2.92E-03
7146	0.90	3.37E-07
7147	0.90	1.86E-07
7149	1.20	8.49E-09

2404	-0.70	3.68E-04	4764	1.40	2.39E-08	7150	0.80	2.46E-06
2407	0.80	8.05E-03	4770	-1.00	1.82E-08	7151	0.80	1.90E-06
2413	1.10	1.97E-08	4771	-2.20	9.11E-11	7160	1.10	7.75E-08
2414	1.10	6.53E-08	4780	0.80	5.87E-07	7161	-1.10	8.71E-08
2418	-0.60	4.17E-03	4781	1.10	3.12E-08	7166	-1.10	1.52E-07
2421	-0.50	3.32E-03	4786	-1.30	1.97E-07	7172	1.20	1.68E-11
2422	-1.10	1.18E-08	4788	0.90	4.15E-05	7180	-1.00	4.36E-04
2423	0.40	9.49E-04	4789	-1.10	2.17E-07	7181	-2.10	1.60E-05
343								
2424	-1.30	1.85E-05	4790	-0.60	7.05E-04	7190	1.10	5.46E-09
2427	-1.30	2.42E-11	4800	-1.30	1.03E-04	7195	-0.90	1.04E-05
12549	1.08	1.47E-05	12589	-0.68	9.75E-05	12614	-0.97	2.87E-04
12552	-0.72	4.35E-03	12590	-2.23	1.68E-09	12615	0.49	4.63E-03
12556	-0.34	9.82E-03	12591	-1.28	6.32E-11	12617	-0.72	9.21E-03
12557	-1.21	2.01E-06	12592	0.82	2.29E-05	12620	0.67	2.76E-04
12561	-1.78	1.42E-03	12597	-0.64	8.44E-04	12623	-0.52	5.98E-03
12565	1.18	6.31E-05	12598	-1.52	2.13E-09	12625	0.67	1.63E-04
12577	-0.89	1.52E-06	12605	-0.89	7.77E-07	12627	-1.10	5.15E-04
12583	-0.98	4.38E-04	12610	-1.44	7.62E-04	12630	1.26	1.02E-09
12584	-1.11	1.75E-06	12613	-0.94	1.33E-05	12636	-0.99	2.17E-04
12702	-2.09	2.20E-04	12994	-1.35	5.21E-13	13279	-1.94	2.46E-05
12705	-0.91	1.10E-06	12996	0.87	1.20E-06	13297	0.84	6.47E-03
12706	0.82	5.65E-06	12998	1.24	2.16E-12	13300	-0.65	2.10E-03
12720	0.88	1.48E-05	13000	-1.17	2.74E-11	13302	1.03	1.27E-09
12725	-1.62	1.71E-13	13001	-0.76	1.19E-03	13305	-1.02	2.78E-05
12728	-1.06	6.29E-04	13003	-1.57	1.76E-09	13306	-1.16	2.35E-03
12738	0.71	5.08E-03	13006	0.55	7.11E-03	13308	-1.01	6.07E-03
12740	-0.72	9.18E-05	13009	-1.94	2.25E-18	13310	0.98	1.18E-08
12742	-0.70	2.44E-03	13010	0.50	4.90E-03	13312	-0.62	6.25E-04
12746	0.62	2.92E-04	13018	-0.92	2.68E-05	13323	-1.81	9.71E-05
12747	-0.70	9.55E-03	13020	0.54	1.69E-03	13324	0.58	1.16E-03
12752	-0.69	1.54E-03	13024	1.52	1.10E-10	13326	0.98	9.54E-05
12756	-0.84	3.50E-04	13025	1.16	2.78E-08	13328	1.59	1.66E-18
12757	1.04	1.88E-04	13038	1.68	4.14E-09	13336	-0.57	4.05E-03
12766	-1.20	8.29E-05	13043	1.22	1.02E-13	13340	-0.97	5.07E-04
12773	-0.70	2.94E-03	13051	1.60	6.10E-21	13344	0.60	3.41E-03
12781	-0.95	1.46E-05	13054	-0.62	2.92E-03	13349	0.62	1.24E-03
12786	1.00	1.12E-07	13059	0.51	4.66E-03	13355	-0.53	3.17E-03

12788	-1.43	7.70E-05	13063	-1.52	5.91E-07	13365	-1.08	3.63E-03
12794	-0.66	4.83E-04	13065	-1.26	3.57E-10	13367	0.97	1.44E-08
12795	0.88	4.77E-07	13072	-1.54	5.33E-04	13378	-1.95	1.45E-07
12798	-0.93	1.90E-07	13075	1.22	1.64E-13	13381	-0.90	2.14E-03
12799	1.44	9.59E-17	13086	-2.52	1.33E-05	13382	0.72	2.68E-03
12814	-1.77	1.45E-04	13089	-0.66	7.05E-03	13383	1.14	3.03E-08
12826	0.63	7.26E-03	13094	-0.85	2.96E-05	13384	-0.61	7.29E-04
12827	-1.32	1.48E-04	13103	1.05	2.00E-08	13406	-0.60	9.87E-04
12828	-0.69	4.15E-04	13108	0.59	9.74E-04	13413	1.56	4.08E-07
12833	-1.00	1.53E-05	13109	0.64	4.57E-04	13420	1.06	9.73E-07
12837	0.88	2.07E-06	13111	1.42	1.40E-16	13434	0.82	3.45E-06
12840	-1.95	2.01E-07	13116	-1.17	5.37E-06	13441	1.07	1.21E-10
12847	-1.90	4.75E-08	13123	-1.39	6.17E-06	13447	0.80	7.77E-05
12849	-0.55	1.17E-03	13124	-0.56	2.75E-05	13455	-0.82	3.90E-07
12850	1.12	5.33E-10	13126	-0.95	1.73E-06	13457	-1.02	2.40E-07
12856	0.95	6.20E-08	13128	-1.81	3.35E-06	13466	-0.74	3.46E-05
12865	1.52	7.39E-06	13132	0.78	6.88E-06	13472	-1.55	2.02E-04
12876	-0.77	1.41E-03	13139	1.16	1.19E-09	13477	0.61	2.92E-03
12881	0.82	1.03E-05	13140	-0.64	2.50E-04	13485	1.17	1.80E-07
12885	1.31	2.73E-13	13142	-1.67	1.76E-08	13491	-1.10	6.89E-03
12886	-0.97	1.83E-04	13143	1.65	4.20E-18	13492	1.67	7.86E-13
12887	1.70	2.86E-17	13149	1.05	1.08E-08	13501	-0.60	8.92E-04
12888	-1.15	1.17E-08	13151	-1.65	2.75E-08	13512	1.02	4.15E-08
12889	1.92	3.15E-35	13153	-0.59	1.89E-03	13517	-1.21	2.50E-06
12893	-0.86	3.18E-05	13154	-0.83	2.84E-05	13519	1.14	8.00E-07
12894	-1.34	9.29E-05	13161	-1.16	1.40E-10	13521	-0.58	2.45E-03
12902	-1.09	6.91E-09	13171	1.05	1.18E-04	13523	1.23	5.54E-09
12905	-1.66	9.26E-15	13175	0.63	5.58E-04	13526	0.66	1.76E-04
12909	-0.72	1.12E-04	13178	0.73	3.47E-05	13527	-1.56	1.30E-17
12913	0.65	1.21E-03	13179	0.57	5.53E-03	13529	1.38	1.20E-12
12927	-1.46	5.43E-15	13184	-0.91	8.66E-04	13532	0.94	2.45E-04
12929	-1.05	8.22E-06	13188	0.62	2.00E-03	13533	0.48	8.77E-03
12933	-1.32	5.07E-06	13191	-1.41	1.37E-06	13538	-1.25	9.13E-09
12938	-1.67	2.94E-05	13195	-0.58	1.19E-03	13542	0.62	1.95E-03
344								
12940	1.09	1.49E-09	13200	0.93	1.28E-05	13553	0.57	4.38E-03
12941	-1.00	6.19E-03	13201	1.10	2.17E-04	13565	-0.78	1.47E-04
12945	0.63	1.95E-03	13210	0.89	1.10E-06	13575	1.66	4.55E-08

12948	-0.82	5.21E-03	13211	-1.29	1.20E-05	13578	1.12	1.62E-10
12950	0.48	6.01E-03	13212	0.67	4.50E-04	13608	1.11	2.52E-10
12952	1.22	1.16E-13	13214	0.68	1.33E-04	13609	0.97	2.46E-07
12962	0.90	1.48E-03	13230	-1.15	1.26E-09	13614	-0.48	8.01E-03
12969	0.38	4.45E-03	13238	-0.82	1.24E-06	13618	0.56	2.01E-03
12975	0.52	3.85E-03	13254	0.54	2.63E-03	13626	-1.07	8.86E-03
12977	1.33	1.84E-10	13258	-1.12	3.32E-03	13629	1.41	1.79E-16
12979	-0.79	4.19E-04	13264	-1.00	1.50E-08	13631	-1.08	1.06E-05
12993	0.95	6.35E-08	13276	1.33	5.29E-15	13632	-0.73	4.32E-03
14273	-0.81	1.06E-04	14568	-0.78	4.20E-03	14934	0.60	6.11E-03
14284	-1.13	8.66E-04	14582	0.83	2.21E-06	14937	1.48	5.45E-20
14295	0.69	2.95E-04	14602	-0.60	3.33E-05	14938	1.11	2.58E-04
14296	-1.52	1.29E-16	14603	0.75	3.53E-05	14940	1.25	2.55E-09
14297	-0.67	8.07E-04	14611	0.81	1.16E-04	14948	-0.82	3.82E-05
14298	0.88	2.43E-04	14612	-1.54	2.28E-18	14957	0.84	3.52E-06
14301	0.91	4.74E-09	14616	-1.31	1.14E-05	14966	-1.76	2.01E-20
14306	1.06	1.08E-08	14625	-1.02	9.68E-06	14972	0.94	8.27E-08
14307	1.17	3.61E-11	14628	-0.89	3.59E-08	14973	1.22	1.94E-08
14309	1.20	9.40E-13	14630	-0.81	3.97E-05	14974	-1.44	2.97E-09
14310	-0.62	6.38E-04	14631	-1.34	3.76E-14	14975	1.07	8.60E-07
14311	-0.83	1.01E-06	14635	0.78	6.70E-03	14989	-2.20	7.21E-08
14313	0.63	3.67E-04	14649	1.20	7.79E-12	14990	-1.20	1.29E-04
14329	-0.63	3.75E-03	14651	0.84	1.47E-06	14996	-0.68	3.57E-04
14330	-1.43	7.08E-15	14658	0.70	3.57E-06	14999	-1.88	6.54E-03
14333	0.59	6.44E-04	14659	0.84	1.47E-06	15001	-0.82	2.68E-03
14334	-0.89	2.22E-06	14661	-0.74	5.11E-04	15003	-1.54	1.55E-14
14342	1.10	3.38E-07	14665	-1.52	4.70E-04	15008	-1.22	2.09E-05
14344	0.54	2.69E-03	14668	-1.08	1.11E-04	15012	-3.17	8.77E-05
14364	-0.51	2.46E-03	14672	0.59	2.66E-04	15017	-1.00	6.43E-03
14369	1.11	2.73E-04	14674	0.52	7.54E-03	15026	-0.73	9.12E-05
14371	0.95	1.61E-05	14688	0.80	1.01E-04	15042	-0.76	4.06E-03
14377	1.41	1.75E-16	14694	-0.93	6.38E-04	15043	0.76	4.65E-05
14379	-1.95	2.07E-07	14695	-1.33	1.01E-10	15047	-1.25	1.99E-09
14381	-2.25	8.21E-13	14697	-1.04	1.08E-06	15060	-1.34	1.62E-11
14382	0.69	1.11E-04	14698	-1.03	1.15E-06	15062	-2.91	2.69E-12
14389	-0.57	1.76E-03	14699	1.33	3.57E-15	15084	-0.99	8.04E-03
14390	1.00	3.54E-07	14700	-1.22	2.96E-12	15092	0.61	9.36E-04
14391	-0.66	2.68E-04	14705	-0.64	2.04E-03	15104	0.65	4.25E-04

14396	0.98	3.85E-03	14716	0.93	2.28E-07	15113	-1.37	1.99E-05
14399	0.49	9.43E-03	14717	0.56	3.97E-03	15114	-0.83	8.56E-05
14405	1.25	3.36E-09	14722	0.58	1.11E-03	15115	-1.05	1.86E-06
14406	-1.72	1.01E-07	14727	1.52	5.09E-17	15128	1.55	9.34E-19
14411	-0.92	3.48E-07	14734	-1.29	9.31E-10	15131	-1.12	1.32E-09
14414	0.54	9.15E-06	14736	-1.06	8.52E-03	15132	-1.57	1.97E-04
14415	-0.61	8.20E-04	14739	0.92	2.21E-07	15133	-1.67	3.47E-03
14422	-0.71	4.69E-04	14773	-0.99	9.21E-06	15147	-0.65	6.93E-04
14424	-1.16	1.94E-05	14777	-0.80	1.75E-05	15150	1.49	9.64E-15
14426	-0.63	7.30E-04	14778	0.51	4.02E-03	15164	0.97	1.47E-08
14430	0.75	2.68E-05	14780	-0.65	8.50E-03	15168	-0.93	5.59E-06
14436	0.60	1.47E-03	14781	-1.91	3.98E-07	15172	0.58	7.73E-04
14441	0.78	6.75E-06	14783	0.96	3.05E-08	15184	-1.33	1.91E-11
14448	-1.19	6.74E-07	14790	-1.52	9.75E-07	15187	-1.91	3.98E-07
14451	0.54	4.93E-03	14791	0.67	3.87E-04	15191	-0.49	8.89E-03
14454	1.20	5.83E-08	14800	-0.65	1.09E-03	15192	-0.85	2.90E-03
14458	-1.15	2.65E-08	14801	-0.67	5.94E-04	15204	-0.95	1.41E-05
14460	1.09	6.84E-10	14806	-1.68	3.10E-06	15209	-0.76	2.24E-05
14469	-0.75	1.75E-04	14807	-1.29	1.04E-05	15211	-1.88	4.46E-16
14474	-0.82	1.87E-03	14808	1.04	2.20E-09	15215	-0.66	4.33E-04
14476	1.50	3.93E-13	14817	-1.69	2.16E-07	15236	-0.87	7.67E-03
14478	-0.86	2.42E-04	14828	0.81	5.81E-06	15238	-0.56	8.56E-03
345								
14479	-1.03	1.07E-05	14839	-1.27	5.25E-11	15239	1.07	1.15E-07
14484	0.93	4.14E-08	14841	-0.67	1.28E-03	15243	-1.65	1.18E-07
14491	-0.66	9.79E-04	14866	0.53	8.38E-03	15244	-2.00	1.58E-07
14494	-0.65	4.60E-03	14872	-2.85	1.69E-05	15248	-1.61	4.76E-05
14498	-0.79	1.33E-03	14873	-0.62	6.03E-04	15250	0.88	1.01E-04
14502	-1.31	6.20E-03	14883	1.58	4.41E-07	15252	1.22	1.66E-08
14504	-1.13	2.39E-04	14886	1.15	6.84E-12	15260	-2.11	1.71E-18
14523	0.97	1.72E-08	14891	-1.13	4.80E-05	15289	-0.90	7.55E-05
14524	-2.26	8.15E-13	14899	0.93	4.21E-05	15291	0.63	7.93E-04
14533	-1.18	1.30E-07	14904	1.07	1.28E-09	15293	-0.65	6.03E-04
14535	-0.96	2.51E-06	14915	1.36	1.93E-16	15302	0.76	4.84E-05
14555	0.90	1.02E-06	14925	1.16	2.70E-12	15309	1.30	2.14E-14
14560	-1.47	3.19E-07	14932	-1.06	4.58E-04	15329	0.91	1.64E-04
4802	0.50	3.40E-03	9493	-0.91	3.20E-07			
4803	0.90	1.96E-08	9498	-0.77	4.35E-05			

4807	1.60	3.43E-15	9500	-0.98	1.20E-06
4808	-0.90	1.62E-06	9506	0.85	1.48E-03
4814	0.80	6.13E-05	9507	1.06	1.68E-10
4821	-1.30	1.71E-05	9508	1.34	2.80E-15
4826	0.70	8.21E-03	12529	0.76	2.21E-05
4827	1.30	4.65E-11	12531	-0.52	1.97E-03
7197	-1.30	6.26E-12	12535	1.22	2.16E-05
7199	-1.40	6.11E-11	12536	-1.12	1.37E-09
7202	-1.20	1.27E-03	12540	1.07	4.12E-05
7204	1.00	4.15E-08	12542	-0.63	4.79E-04
7208	-1.10	7.13E-05	12544	1.39	6.76E-12
7209	1.10	7.67E-06	12546	1.03	5.10E-09
7212	0.60	1.46E-03	12547	-0.70	1.16E-04
7213	0.80	9.33E-07			
7218	-1.40	4.85E-15			
9483	-1.13	2.80E-05			
9486	-1.50	4.42E-04			
9491	-1.22	5.61E-04			

A	B	C	A	B	C
7219	-1.50	1.17E-10	9517	-1.08	7.99E-07
7223	-2.20	4.83E-16	9519	-0.94	2.54E-03
7224	-0.70	8.90E-03	9521	-0.67	1.94E-04
7225	-1.10	6.35E-03	9523	-0.47	8.52E-03
7226	0.70	7.09E-03	9524	-0.46	9.82E-03
7227	0.90	2.87E-06	9529	0.64	3.82E-04
7228	0.90	3.11E-06	9530	-1.25	2.82E-06
7229	1.00	1.19E-08	9531	-1.48	2.43E-14
7231	0.70	1.40E-04	9540	-1.01	1.35E-06
7232	-1.30	7.46E-15	9542	-1.24	1.53E-03
7233	0.50	6.51E-03	9544	0.62	9.64E-07
7238	-0.60	2.22E-03	9548	0.63	6.35E-05
7239	-1.20	5.77E-04	9549	1.05	5.71E-04
7245	0.40	3.65E-04	9552	0.87	1.03E-06
7248	-0.80	5.97E-05	9553	-0.82	1.01E-05
7251	1.30	7.97E-13	9557	-1.13	2.71E-08
7255	1.10	2.15E-05	9558	-1.12	4.66E-08
7263	0.50	4.04E-03	9575	1.88	5.10E-25
7271	-1.00	3.76E-09	9580	-0.98	8.38E-07
7279	-1.00	2.36E-07	9581	-0.99	7.68E-07
7285	0.90	1.08E-03	9587	1.24	1.51E-13
7289	1.20	1.02E-11	9592	0.53	7.08E-03
7293	-1.10	3.14E-07	9598	-1.61	7.42E-09
7296	-1.30	1.08E-03	9609	1.06	3.07E-07
7303	0.90	4.84E-04	9615	-1.16	1.80E-09
7304	-1.30	6.94E-06	9617	-0.80	1.95E-04
7310	-0.80	6.06E-06	9619	0.62	6.65E-03
7311	-0.80	3.58E-05	9625	1.46	8.54E-07
7313	1.40	7.75E-15	9628	-1.21	1.72E-05
7315	-1.30	4.09E-06	9633	-1.94	5.70E-04
7316	-0.90	1.78E-05	9636	-2.30	2.73E-13
7317	-0.90	6.14E-05	9640	-0.60	6.84E-04
7329	-2.10	9.11E-07	9645	0.53	1.30E-03
7331	1.00	1.18E-05	9646	-1.08	8.32E-09
7335	-1.20	8.70E-06	9647	-1.37	3.78E-05

7336	0.90	5.01E-04	9657	0.65	1.64E-03
7338	-1.00	2.84E-05	9660	-0.97	2.29E-06
7341	-1.20	1.61E-03	9665	-1.88	3.68E-15
7345	1.50	8.79E-15	9668	-0.75	7.91E-05
7348	-1.10	1.68E-03	9669	1.38	3.73E-05
7349	-1.10	1.06E-03	9670	1.00	1.09E-07
7351	0.50	4.72E-03	9671	0.91	4.28E-06
7352	0.60	1.41E-03	9672	-1.53	3.49E-15
7355	-1.00	5.94E-09	9673	1.04	5.66E-07
7357	1.60	1.51E-17	9676	0.78	1.19E-05
7362	-0.80	1.45E-03	9680	1.50	1.74E-20
7367	-0.90	5.93E-06	9685	-1.34	3.85E-06
7370	-1.60	7.61E-06	9687	-0.88	4.82E-06
7373	-0.50	5.59E-03	9688	0.95	1.53E-07
7374	1.50	6.44E-21	9689	-0.94	9.51E-03
7380	0.50	8.00E-03	9690	-0.71	6.98E-03
7386	-1.10	1.87E-08	9691	-0.59	1.19E-03
7388	-0.90	4.21E-06	9694	0.74	1.06E-04
7390	1.10	4.31E-05	9695	-0.90	9.54E-03
7396	0.90	5.10E-07	9697	-0.64	6.85E-04
7403	-1.40	2.31E-05	9698	1.15	7.11E-10
7404	-1.40	1.70E-05	9699	-1.28	1.20E-08
7406	1.10	4.93E-07	9700	0.84	1.45E-06
7407	0.50	2.60E-03	9701	-1.11	7.55E-06
7410	0.50	3.81E-03	9703	0.82	1.11E-05
7412	-1.40	1.08E-06	9707	-0.74	1.47E-04
7415	0.80	2.61E-03	9708	0.64	2.59E-03
7416	-0.80	7.26E-05	9711	-0.87	4.07E-09
7421	-0.80	5.65E-05	9712	-1.50	1.05E-03
7424	1.60	2.89E-14	9713	0.80	5.40E-03
7427	-0.80	1.36E-03	9714	0.88	1.81E-07
7429	0.70	7.47E-05	9715	-0.70	5.60E-05
7430	-1.20	1.73E-09	9716	1.15	1.18E-11
7431	0.60	5.62E-04	9718	-0.54	5.09E-03
7434	1.30	7.63E-18	9719	-0.78	1.29E-05
7437	1.00	9.79E-10	9722	-0.80	1.32E-04
7443	-1.80	1.95E-04	9723	0.92	2.16E-04

7444	0.70	6.08E-03	9725	-1.37	6.63E-11
7448	-1.60	1.39E-19	9730	-1.75	3.78E-12
7450	-0.80	5.29E-03	9732	-1.54	2.53E-05
7453	-1.00	4.25E-08	9736	-0.82	1.41E-05
7454	-0.60	4.58E-03	9746	1.36	4.66E-11
7460	1.70	3.72E-23	9747	-2.34	7.07E-09
7462	0.60	2.75E-03	9751	0.71	4.07E-03
7464	-1.10	1.46E-05	9761	0.52	3.97E-03
7468	1.30	6.29E-15	9766	1.39	5.47E-06
7471	-0.60	3.29E-03	9767	-2.67	2.83E-05
7472	1.20	1.74E-09	9769	0.94	4.52E-04
7476	-1.20	1.95E-03	9771	-0.77	5.47E-05
7490	-0.80	5.78E-07	9774	-0.80	2.37E-05
7491	0.60	9.51E-03	9777	1.10	4.55E-04
7493	1.00	1.95E-08	9779	1.17	5.57E-05
7495	-1.00	4.86E-05	9780	-1.09	9.08E-05
7496	-0.50	7.44E-03	9781	-0.94	1.78E-05
7497	0.90	2.38E-08	9782	-0.92	2.51E-07
7500	1.20	7.29E-05	9788	0.66	9.00E-03
7502	-1.10	9.14E-08	9796	-1.57	9.17E-03
7506	-1.20	1.92E-11	9809	0.69	2.11E-03
7507	-1.10	1.99E-06	9810	-0.59	1.32E-03
7508	-0.70	9.26E-03	9813	0.53	1.05E-03
7515	-2.30	5.04E-16	9815	0.66	1.43E-04
7516	-2.20	1.00E-15	9817	0.51	2.01E-04
7520	0.90	4.66E-07	9818	0.55	4.43E-05
7524	-1.00	4.06E-07	9819	-0.78	3.22E-05
7525	-1.00	6.37E-07	9825	-1.41	1.10E-08
7530	0.60	3.51E-03	9833	-1.61	8.47E-05
7532	-1.20	3.65E-05	9838	-0.72	4.62E-05
7533	0.80	1.04E-05	9844	1.06	2.14E-04
7537	0.40	2.28E-03	9847	1.06	4.58E-08
7539	0.40	3.43E-03	9848	0.97	2.21E-03
7540	0.70	3.77E-04	9851	-1.39	3.01E-04
7543	-0.80	3.59E-04	9858	-0.67	5.36E-05
7545	1.00	1.82E-06	9859	-1.21	2.58E-09
7547	-0.80	1.03E-05	9860	-1.05	1.38E-04
7548	-1.50	6.66E-16	9863	-1.37	1.70E-08

7549	-1.30	2.82E-11	9866	-1.10	1.71E-08
7559	1.30	1.94E-12	9867	-1.26	7.74E-11
7560	1.50	3.10E-18	9868	-1.38	1.36E-08
7563	-0.90	9.79E-04	9869	-1.48	1.37E-07
7564	-0.80	2.13E-06	9874	-0.72	6.46E-05
7568	1.20	1.63E-08	9876	0.67	1.30E-04
7569	1.30	9.67E-14	9879	0.55	2.00E-03
7570	-1.80	1.28E-23	9882	0.49	7.15E-03
7571	1.10	1.70E-18	9889	0.93	8.17E-06
7572	0.70	1.32E-04	9891	0.57	2.43E-03
7573	1.10	9.00E-09	9892	-0.70	2.62E-03
7575	-1.10	2.67E-04	9894	-0.85	2.26E-06
7578	-1.40	1.79E-08	9897	-0.54	5.75E-03
7579	-1.00	7.46E-07	9899	0.57	7.75E-04
7580	0.50	6.27E-03	9900	-1.05	1.44E-03
7582	-1.10	3.82E-08	9904	-0.57	7.30E-03
7585	-0.60	1.57E-03	9914	-1.46	4.83E-03
7588	-0.80	2.18E-05	9917	-1.47	5.07E-09
7591	-0.90	3.26E-03	9919	0.59	5.99E-04
7593	-0.90	9.10E-03	9921	1.02	3.16E-06
7594	-0.60	4.17E-03	9924	0.85	1.98E-06
7597	-0.80	1.22E-06	9925	1.01	1.13E-08
7601	-1.20	4.23E-07	9927	0.96	1.60E-06
7603	-0.60	4.80E-03	9933	1.23	3.23E-04
7605	-1.10	6.12E-08	9941	-0.77	4.49E-03
7606	0.85	1.07E-06	9945	-1.14	5.92E-10
7611	-1.04	2.05E-09	9946	2.24	7.45E-41
7619	1.09	1.05E-08	9950	-0.95	9.61E-06
7629	1.15	2.33E-06	9952	1.03	2.29E-06
7632	-0.86	6.79E-03	9953	0.61	1.20E-03
7639	-0.94	3.88E-07	9956	0.89	1.34E-04
7642	-0.98	1.36E-09	9957	-1.76	5.40E-14
7643	0.99	1.29E-08	9959	1.50	1.74E-20
7644	-1.18	7.84E-12	9961	1.41	2.41E-16
7648	-2.49	9.55E-08	9964	1.28	5.44E-09
7649	-0.77	3.61E-04	9967	-0.54	8.16E-03
7656	0.55	1.25E-03	9973	-0.89	8.06E-05

7657	0.65	1.71E-04	9975	-0.45	2.65E-03
7658	-2.64	2.02E-05	9976	0.50	6.73E-03
7659	-1.86	1.77E-11	9981	-0.61	6.65E-04
7660	1.71	5.96E-19	9982	-0.90	1.39E-06
7665	1.19	2.11E-11	9987	-0.54	4.96E-03
7666	-0.89	7.42E-07	9989	0.56	3.23E-03
7672	0.54	1.77E-03	9992	-0.98	4.91E-05
7676	-0.99	8.28E-06	9993	-0.77	5.87E-09
7689	1.68	7.77E-24	9994	0.69	1.03E-04
7690	-1.62	2.36E-19	9995	1.76	5.66E-29
7691	-1.63	9.48E-20	10006	-0.49	6.13E-03
7693	-1.12	4.11E-07	10010	-1.04	9.99E-08
7694	-2.06	6.98E-04	10011	-1.37	1.56E-12
7701	-1.19	5.09E-10	10015	-0.46	4.47E-03
7708	-0.88	1.67E-06	10021	-0.68	5.75E-04
7721	-1.88	4.21E-10	10023	-0.74	2.07E-05
7722	-3.33	6.79E-12	10026	-1.00	1.04E-06
7723	-1.08	2.39E-04	10035	0.88	2.59E-06
7725	0.58	1.34E-04	10036	-0.79	7.63E-05
7726	0.94	2.48E-04	10039	-0.82	2.68E-05
7727	0.64	1.42E-04	10041	0.65	9.43E-03
7729	1.02	6.54E-08	10043	-1.58	9.14E-03
7737	-1.10	1.13E-09	10044	0.96	2.74E-07
7738	0.89	1.95E-08	10045	-1.10	8.93E-03
7739	0.48	5.86E-03	10053	-1.03	2.66E-03
7742	-0.91	3.61E-06	10059	-0.88	2.06E-06
7745	1.26	1.12E-13	10061	0.73	9.69E-03
7746	1.45	2.08E-09	10062	-1.35	9.57E-16
7747	1.03	5.89E-08	10066	-1.40	7.73E-16
7750	1.21	2.81E-09	10076	-0.67	2.04E-04
7751	1.06	8.23E-08	10077	-0.94	2.76E-11
7753	1.27	3.98E-11	10079	1.48	1.78E-08
7754	0.54	1.62E-03	10080	-0.99	8.08E-06
7755	0.76	1.21E-09	10081	-0.57	2.21E-03
7759	-0.56	2.19E-03	10084	1.44	4.72E-12
7761	0.60	1.48E-03	10087	-0.64	1.53E-03
7763	-0.80	2.38E-03	10092	-1.17	7.94E-10
7770	1.08	1.47E-06	10095	1.02	5.66E-14

4771	-0.23	1.62E-05	5061	-0.15	8.27E-03	5331	-0.13	6.98E-05
4780	0.12	1.48E-06	5063	-0.22	1.37E-05	5338	0.07	2.96E-03
4781	0.12	7.60E-05	5066	-0.08	2.11E-03	5339	0.09	7.97E-03
4786	-0.13	1.02E-04	5069	0.17	1.12E-09	5343	0.09	3.23E-03
4787	-0.11	3.77E-03	5070	0.15	3.40E-06	5344	0.20	6.13E-16
4789	-0.09	1.98E-03	5078	-0.08	1.08E-04	5345	0.17	1.83E-11
4796	-0.08	1.06E-03	5079	0.10	8.78E-05	5348	0.10	4.35E-03
4800	-0.20	7.72E-05	5083	0.14	6.74E-06	5350	0.09	2.30E-03
4801	-0.10	2.76E-05	5086	0.17	7.65E-12	5353	0.13	1.50E-06
4807	0.18	1.35E-09	5088	0.06	1.69E-03	5356	-0.09	6.22E-03
4808	-0.11	2.90E-05	5093	-0.11	2.09E-05	5360	0.13	4.06E-04
4811	0.07	6.24E-03	5094	0.13	1.12E-03	5366	0.08	2.95E-03
4816	-0.15	2.88E-03	5095	-0.11	3.17E-03	5367	-0.07	7.58E-03
4820	0.08	4.70E-03	5097	0.18	1.40E-03	5368	0.07	9.65E-03
4821	-0.14	5.10E-04	5098	0.08	1.36E-03	5379	-0.14	3.60E-08
4827	0.20	1.75E-08	5109	0.16	1.36E-07	5381	0.13	4.44E-07
4831	-0.12	6.46E-06	5116	-0.08	1.57E-03	5390	0.05	6.21E-03
4834	-0.26	4.05E-04	5121	0.15	1.23E-05	5399	-0.16	1.22E-07
4839	-0.05	6.80E-03	5122	-0.11	3.91E-03	5401	0.12	2.73E-04
4849	-0.13	4.82E-06	5124	-0.09	3.41E-03	5402	-0.10	1.50E-08
4858	-0.10	1.11E-03	5132	0.09	7.48E-04	5405	-0.12	3.92E-05
4859	-0.08	7.22E-03	5133	-0.19	7.41E-05	5407	-0.15	5.41E-03
4860	0.09	7.09E-04	5134	-0.23	5.88E-18	5413	-0.07	9.09E-03
4863	-0.13	1.58E-07	5138	-0.13	1.33E-06	5414	-0.16	2.54E-09
4864	-0.20	1.17E-11	5148	-0.11	3.58E-04	5418	0.06	8.38E-04
4873	0.07	5.39E-03	5149	-0.09	6.54E-04	5419	0.11	4.35E-05
4876	0.07	1.86E-03	5152	0.07	8.79E-04	5426	-0.11	1.11E-03
4878	-0.10	9.40E-03	5155	-0.25	1.27E-03	5427	-0.11	1.10E-03
359								
4885	0.10	8.73E-05	5163	0.08	3.36E-03	5429	0.18	3.00E-09
4890	-0.18	2.08E-04	5165	0.10	3.53E-03	5432	0.15	2.01E-10
4893	0.12	4.88E-06	5172	-0.11	1.64E-05	5435	0.10	1.31E-04
6198	0.16	3.40E-07	5176	-0.33	6.53E-06	5440	-0.22	5.26E-04
6200	0.17	2.38E-07	5179	-0.22	1.85E-05	5453	-0.15	3.39E-03
6201	-0.12	1.95E-06	5186	0.15	3.20E-04	5454	-0.08	4.27E-03
6204	-0.24	5.25E-08	6412	0.10	1.30E-04	6639	0.15	9.13E-09
6206	0.13	1.69E-03	6415	-0.13	1.25E-05	6640	-0.14	1.77E-05
6212	0.12	2.60E-04	6416	0.11	8.77E-05	6643	0.13	2.27E-07

6214	0.09	3.04E-04	6417	0.10	2.19E-04	6647	0.10	2.60E-04
6219	0.13	1.46E-07	6420	-0.11	4.51E-05	6651	-0.14	2.52E-04
6221	0.10	2.23E-03	6431	-0.26	1.78E-03	6658	-0.08	1.86E-03
6223	-0.15	5.41E-03	6434	0.08	2.34E-03	6659	0.17	9.26E-12
6224	-0.14	5.68E-03	6436	0.13	3.17E-07	6660	-0.18	1.17E-07
6229	-0.06	2.08E-03	6438	0.07	2.31E-03	6669	0.10	9.46E-04
6238	0.09	3.17E-04	6441	0.19	2.43E-04	6671	-0.14	2.94E-07
6239	-0.17	2.80E-09	6452	-0.10	2.98E-03	6676	-0.20	1.46E-09
6240	-0.10	1.46E-03	6454	-0.13	7.75E-07	6678	0.13	1.13E-03
6245	0.15	2.32E-10	6455	0.13	2.32E-06	6681	0.15	6.37E-09
6246	-0.13	6.02E-05	6456	0.09	3.90E-04	6685	-0.13	1.11E-03
6248	-0.17	6.44E-04	6461	-0.11	2.33E-03	6690	-0.26	4.74E-09
6249	0.20	9.04E-16	6463	-0.10	2.83E-04	6692	0.06	1.84E-03
6250	-0.15	5.27E-08	6468	-0.19	1.52E-06	6696	0.18	1.54E-03
6253	-0.23	1.08E-19	6473	-0.10	4.39E-03	6697	0.13	2.62E-07
6257	-0.23	2.35E-04	6474	0.08	5.98E-04	6703	-0.10	2.10E-03
6258	-0.19	4.74E-07	6477	0.13	4.39E-04	6706	-0.09	2.19E-03
6261	0.14	1.52E-12	6478	0.10	1.33E-04	6708	-0.10	4.56E-03
6267	-0.22	1.73E-06	6485	-0.18	2.24E-07	6709	0.17	9.19E-10
6272	-0.08	2.00E-03	6487	0.08	9.61E-04	6711	-0.21	1.45E-05
6275	-0.16	5.80E-03	6493	-0.22	1.83E-04	6714	-0.15	1.11E-08
6276	-0.18	8.54E-03	6498	-0.09	4.74E-04	6716	0.09	4.75E-04
6284	0.08	3.27E-03	6502	-0.17	2.72E-04	6717	0.09	9.19E-04
6286	-0.18	2.77E-04	6505	-0.13	1.71E-06	6718	-0.16	4.13E-05
6289	-0.08	6.57E-03	6509	-0.08	3.09E-03	6722	-0.13	9.28E-05
6297	0.10	5.16E-04	6520	0.09	2.15E-03	6724	0.09	5.29E-03
6303	0.09	2.84E-04	6521	-0.09	5.75E-03	6727	0.18	1.21E-06
6304	0.09	2.34E-04	6523	-0.19	9.36E-18	6738	-0.07	3.73E-03
6305	0.13	3.18E-05	6528	0.08	5.10E-03	6742	0.10	5.15E-03
6307	-0.13	1.76E-04	6531	0.21	1.12E-06	6748	0.11	1.80E-05
6310	0.17	1.38E-11	6535	-0.10	1.03E-04	6749	-0.18	2.26E-05
6318	-0.13	9.13E-07	6540	-0.15	1.94E-07	6755	0.17	4.07E-10
6321	0.10	8.52E-04	6544	0.09	4.42E-04	6757	-0.23	3.28E-12
6328	-0.09	1.28E-03	6548	-0.09	1.03E-03	6762	-0.08	1.60E-03
6330	-0.14	4.35E-05	6549	-0.08	6.65E-03	6764	0.15	3.51E-04
6333	0.09	1.02E-03	6550	-0.11	5.13E-06	6774	-0.19	2.06E-07
6337	-0.18	9.36E-12	6551	-0.22	1.27E-05	6775	0.12	7.69E-03
6340	-0.20	9.90E-08	6555	0.07	9.39E-03	6776	0.12	5.11E-05

6343	0.09	5.20E-04	6557	0.06	4.89E-04	6780	-0.20	8.79E-13
6346	-0.21	1.36E-05	6565	0.07	8.02E-03	6783	-0.07	6.95E-03
6351	-0.19	5.00E-13	6566	-0.12	7.99E-03	6790	-0.12	2.27E-06
6352	-0.23	4.94E-06	6568	-0.09	4.54E-04	6793	0.12	5.79E-03
6356	0.12	2.86E-06	6571	-0.21	1.47E-06	6795	0.09	9.86E-04
6359	-0.12	1.84E-04	6576	0.15	1.51E-03	6799	0.10	1.66E-04
6360	-0.26	2.05E-04	6578	-0.20	7.11E-03	6813	-0.15	6.25E-04
6361	0.09	3.73E-04	6580	-0.15	5.66E-06	6817	-0.18	1.44E-03
6365	-0.17	9.09E-13	6582	0.14	3.40E-08	6818	-0.24	5.79E-18
6366	-0.12	6.13E-05	6583	-0.10	1.21E-04	6819	-0.19	2.15E-03
6373	0.19	7.07E-13	6584	-0.09	4.36E-04	6820	-0.21	4.76E-04
6375	0.10	2.46E-03	6587	0.08	4.87E-04	6836	-0.09	1.06E-03
6376	0.10	5.85E-05	6591	0.13	1.30E-04	6839	0.15	4.06E-10
6381	0.14	2.50E-08	6599	0.07	9.69E-03	6843	-0.18	6.88E-09
6382	-0.09	1.14E-03	6600	0.16	1.67E-07	6844	-0.14	6.58E-03
6385	-0.10	1.10E-04	6609	0.10	9.66E-03	6849	-0.35	2.87E-08
360								
6388	-0.11	1.40E-03	6615	0.12	1.25E-05	6856	-0.08	2.67E-03
6398	-0.19	2.38E-07	6617	0.14	8.08E-04	6862	-0.25	2.75E-05
6408	0.12	1.17E-06	6619	-0.08	1.78E-03	6869	-0.17	4.48E-10
6411	-0.10	7.89E-05	6621	-0.11	5.39E-05	6870	-0.17	5.26E-03
7703	0.08	6.40E-03	6626	-0.13	2.65E-05	6887	-0.13	2.73E-06
7721	-0.19	1.28E-06	6633	-0.10	1.76E-03	6894	0.20	5.48E-10
7722	-0.35	3.58E-09	6635	-0.24	2.24E-07	6895	0.08	2.72E-03
7724	0.08	2.22E-03	7941	0.09	5.06E-03	8168	-0.12	1.09E-05
7725	0.10	1.05E-05	7942	-0.09	5.12E-04	8169	-0.06	5.59E-03
7727	0.20	8.78E-15	7950	-0.10	1.62E-04	8172	0.10	7.80E-03
7729	0.10	1.26E-03	7951	0.09	1.34E-03	8174	0.12	4.51E-03
7732	-0.11	1.91E-04	7952	0.12	9.57E-06	8188	0.09	8.24E-04
7736	-0.24	7.05E-05	7956	-0.11	1.14E-04	8192	0.15	3.62E-09
7737	-0.15	2.92E-09	7959	-0.14	7.31E-07	8193	0.10	1.14E-03
7738	0.14	5.70E-09	7964	0.14	3.95E-08	8194	-0.18	2.29E-06
7742	-0.11	6.83E-05	7965	0.15	2.04E-09	8203	-0.13	8.24E-04
7745	0.16	6.61E-10	7966	-0.17	6.77E-07	8212	-0.13	5.34E-04
7747	0.10	1.56E-04	7974	0.16	8.71E-05	8213	0.09	3.20E-04
7748	-0.20	9.26E-03	7982	0.19	5.70E-12	8219	0.11	2.18E-03
7750	0.12	1.40E-04	7983	0.10	5.19E-04	8220	-0.11	7.10E-03
7751	0.13	4.32E-05	7997	0.14	1.31E-04	8233	-0.17	6.75E-11

7753	0.15	9.01E-07	8006	-0.15	1.02E-07	8235	-0.15	6.65E-08
7755	0.06	2.20E-03	8007	-0.30	1.31E-03	8237	0.12	4.48E-04
7761	0.08	4.70E-03	8009	-0.08	7.89E-03	8238	0.12	3.38E-04
7763	-0.10	2.31E-03	8012	-0.24	2.90E-08	8239	0.10	7.87E-05
7769	-0.10	4.94E-03	8013	-0.15	5.89E-04	8240	-0.19	2.08E-11
7770	0.10	6.53E-03	8015	0.16	7.26E-04	8241	-0.11	4.71E-05
7773	0.11	3.99E-03	8016	-0.09	5.92E-03	8243	-0.14	2.41E-05
7777	-0.21	5.11E-14	8018	0.10	2.13E-03	8244	-0.10	4.16E-04
7781	0.17	6.74E-11	8022	-0.16	2.50E-05	8246	-0.21	5.57E-03
7785	-0.18	8.12E-06	8024	-0.10	6.63E-04	8248	0.11	1.32E-03
7788	0.10	2.22E-04	8028	-0.11	3.08E-03	8255	-0.12	2.93E-06
7797	0.07	8.13E-03	8032	-0.15	5.33E-09	8261	0.15	1.09E-07
7807	-0.11	2.11E-04	8034	0.13	6.89E-07	8267	-0.16	3.20E-03
7815	-0.14	5.46E-06	8035	0.13	6.15E-07	8276	-0.15	6.01E-08
7816	-0.11	1.33E-04	8037	-0.17	5.65E-05	8281	-0.11	4.68E-03
7822	-0.20	1.74E-13	8039	-0.07	6.96E-03	8286	0.21	5.22E-05
7823	0.10	3.58E-05	8040	0.09	4.30E-03	8287	-0.12	1.00E-06
7827	-0.14	4.74E-06	8044	0.06	5.45E-04	8289	-0.18	2.22E-10
7828	-0.19	2.09E-07	8052	0.12	4.86E-06	8290	-0.14	2.42E-03
7832	0.09	1.34E-03	8054	0.08	3.74E-03	8300	-0.09	5.98E-03
7841	0.28	9.38E-10	8055	0.14	5.86E-07	8301	0.13	2.21E-04
7843	0.09	1.12E-03	8060	-0.08	1.89E-03	8306	-0.08	2.00E-03
7849	-0.13	5.34E-03	8062	-0.11	3.39E-04	8312	0.11	2.12E-05
7854	-0.23	2.36E-04	8063	-0.12	9.57E-05	8319	0.11	6.81E-06
7857	-0.12	3.71E-03	8066	-0.09	9.93E-03	8321	-0.20	9.32E-06
7858	-0.12	2.73E-05	8070	0.07	5.63E-03	8325	-0.12	8.05E-03
7860	-0.20	5.23E-08	8085	-0.10	1.91E-03	8332	-0.13	2.60E-04
7861	-0.12	1.40E-03	8087	-0.11	1.64E-04	8333	0.11	2.31E-05
7869	-0.21	1.97E-03	8089	0.16	1.02E-05	8336	-0.18	5.86E-09
7871	0.19	4.94E-10	8094	0.16	1.46E-09	8338	-0.09	6.53E-04
7873	0.12	3.90E-06	8100	0.12	1.33E-05	8339	0.08	3.20E-03
7875	-0.10	1.40E-03	8103	-0.09	2.68E-03	8340	-0.16	2.23E-04
7876	-0.16	2.72E-08	8105	0.22	3.62E-13	8343	0.11	1.69E-04
7879	-0.13	2.77E-05	8111	-0.24	6.25E-18	8345	0.08	1.06E-03
7889	-0.14	8.34E-08	8117	0.07	4.99E-03	8348	0.10	1.57E-03
7899	-0.08	3.94E-03	8119	-0.13	1.88E-07	8349	-0.11	1.74E-04
7900	-0.20	6.76E-07	8127	0.16	4.67E-11	8353	-0.18	6.97E-13
7901	0.09	2.20E-03	8132	-0.14	3.73E-06	8354	-0.15	3.11E-04

7908	-0.07	9.04E-03	8133	0.10	1.38E-04	8358	-0.16	3.97E-07
7914	0.10	4.84E-05	8134	0.19	3.78E-09	8360	0.09	4.56E-03
7915	0.10	1.79E-04	8142	-0.12	4.07E-05	8365	-0.08	8.32E-03
7916	0.11	4.38E-05	8143	-0.12	3.58E-05	8366	-0.08	8.54E-03
361								
7924	0.09	1.64E-04	8146	0.11	8.17E-06	8367	-0.12	1.63E-08
7927	0.09	9.36E-04	8147	0.11	1.38E-05	8368	-0.10	1.80E-04
7929	-0.09	2.15E-03	8149	0.10	6.42E-05	8383	0.16	2.03E-07
7939	0.13	3.81E-07	8150	0.21	1.02E-11	8384	-0.24	4.83E-05
7940	0.07	6.91E-03	8159	-0.09	1.35E-03	8391	-0.12	8.29E-06
9101	0.18	3.99E-12	8160	-0.08	4.38E-03	8395	-0.10	4.84E-05
9103	0.11	1.43E-03	8161	0.11	1.88E-05	8397	0.16	4.70E-09
9106	-0.21	9.18E-05	8163	-0.10	1.51E-05	8398	0.13	1.90E-07
9110	-0.23	4.49E-05	9348	-0.05	7.60E-03	9633	-0.25	7.60E-05
9111	0.07	5.70E-03	9349	-0.20	1.26E-06	9636	-0.19	2.35E-08
9122	0.08	7.41E-03	9352	0.09	2.28E-03	9645	0.08	6.95E-04
9123	0.08	1.52E-03	9353	0.09	2.56E-03	9646	-0.16	3.39E-08
9127	-0.12	4.17E-05	9355	0.14	1.86E-08	9647	-0.21	5.35E-05
9129	0.24	5.23E-22	9362	0.09	4.30E-03	9657	0.14	5.37E-05
9132	-0.10	1.23E-04	9368	0.25	1.10E-22	9660	-0.18	3.92E-10
9134	-0.21	4.65E-03	9371	-0.12	2.41E-04	9664	-0.12	6.14E-04
9136	-0.17	2.51E-03	9373	0.18	4.47E-11	9665	-0.21	7.58E-08
9138	0.20	5.13E-15	9376	0.10	1.12E-03	9670	0.10	1.07E-04
9140	0.11	2.26E-03	9383	-0.21	2.66E-15	9671	0.11	4.20E-04
9142	0.13	3.31E-07	9388	-0.17	3.20E-04	9672	-0.12	5.34E-06
9150	0.08	1.23E-03	9390	-0.13	5.96E-03	9676	0.10	1.66E-04
9154	-0.10	9.57E-03	9394	-0.16	1.42E-04	9680	0.17	1.45E-11
9158	0.09	1.59E-03	9397	-0.08	7.85E-03	9681	0.18	1.29E-04
9161	0.11	4.49E-05	9402	-0.12	1.08E-04	9682	-0.14	1.06E-08
9165	0.07	2.19E-04	9404	-0.09	1.65E-03	9685	-0.20	9.74E-08
9166	-0.11	6.80E-05	9406	-0.11	1.19E-09	9687	-0.14	1.77E-06
9173	0.11	1.46E-05	9410	0.09	7.35E-04	9688	0.09	4.87E-04
9182	-0.07	8.77E-03	9413	-0.17	2.03E-04	9694	0.16	7.06E-08
9183	-0.10	1.60E-05	9421	-0.15	9.46E-05	9695	-0.23	2.04E-05
9184	0.08	2.03E-03	9424	-0.15	1.79E-06	9698	0.10	5.73E-05
9187	-0.11	1.08E-07	9430	-0.10	1.86E-04	9699	-0.16	1.14E-07
9191	-0.12	5.23E-06	9432	0.12	3.60E-04	9701	-0.12	1.30E-04
9192	-0.15	3.42E-07	9437	-0.26	1.21E-04	9707	-0.14	3.20E-07

9195	-0.19	3.33E-03	9445	-0.13	5.61E-05	9711	-0.06	1.72E-03
9200	-0.08	8.59E-03	9447	-0.21	1.32E-04	9714	0.13	3.15E-07
9207	0.10	4.79E-05	9449	0.22	4.13E-07	9715	-0.17	5.50E-11
9208	-0.17	3.82E-05	9452	-0.13	3.87E-03	9716	0.08	2.84E-03
9213	0.16	2.28E-08	9459	-0.12	1.23E-05	9719	-0.12	1.46E-06
9225	0.10	3.54E-07	9463	0.08	5.73E-03	9720	-0.12	5.12E-03
9227	-0.12	5.79E-05	9468	-0.09	5.97E-03	9723	0.13	7.09E-03
9228	0.13	8.66E-08	9472	-0.09	2.08E-03	9730	-0.17	2.44E-06
9231	-0.10	1.48E-03	9476	-0.07	9.38E-03	9732	-0.25	8.78E-09
9237	-0.08	9.70E-04	9478	0.13	1.24E-03	9733	0.11	4.08E-05
9248	0.17	1.93E-09	9483	-0.11	2.81E-03	9738	-0.10	6.83E-04
9250	-0.22	4.97E-04	9485	-0.08	6.98E-03	9746	0.20	1.89E-08
9255	-0.14	9.04E-03	9486	-0.21	1.01E-05	9747	-0.17	9.40E-05
9260	-0.16	2.78E-08	9498	-0.12	2.84E-06	9750	0.11	4.68E-04
9265	0.21	2.28E-06	9502	0.09	6.76E-04	9757	-0.34	7.42E-06
9266	-0.10	1.90E-03	9505	-0.05	3.64E-03	9758	-0.24	4.17E-03
9269	-0.11	3.99E-05	9506	0.08	5.86E-03	9763	0.12	1.77E-04
9274	-0.08	3.04E-03	9508	0.08	1.73E-03	9766	0.22	2.68E-05
9280	0.10	9.05E-05	9516	0.12	1.85E-04	9767	-0.26	5.86E-04
9281	-0.19	1.48E-12	9521	-0.08	1.39E-03	9771	-0.12	6.03E-06
9285	0.08	9.87E-03	9530	-0.12	1.19E-03	9774	-0.15	3.31E-07
9289	-0.16	1.37E-03	9531	-0.12	3.81E-05	9780	-0.14	3.80E-05
9290	-0.12	2.36E-05	9538	-0.17	8.10E-07	9781	-0.09	2.49E-03
9293	-0.08	4.34E-03	9540	-0.10	2.21E-03	9782	-0.10	9.58E-05
9294	-0.08	2.18E-03	9541	-0.07	8.61E-03	9788	0.22	3.44E-07
9300	0.08	2.04E-03	9542	-0.18	1.49E-03	9789	0.22	7.85E-10
9305	0.10	9.78E-05	9557	-0.16	4.35E-08	9806	0.07	4.61E-03
9311	-0.10	8.27E-05	9558	-0.16	3.14E-08	9810	0.11	1.50E-05
9314	0.10	2.33E-04	9575	0.10	5.33E-05	9815	0.10	1.72E-04
9319	0.07	6.95E-03	9583	-0.15	1.12E-03	9817	0.06	2.07E-03
362								
9322	-0.11	3.39E-03	9587	0.10	9.49E-05	9818	0.07	4.73E-04
9327	-0.17	6.54E-05	9589	0.08	4.15E-03	9819	-0.13	1.30E-06
9329	-0.09	3.36E-04	9594	-0.11	1.88E-04	9822	-0.12	9.29E-05
9341	-0.08	1.39E-03	9598	-0.22	1.72E-10	9833	-0.16	4.98E-03
9342	-0.26	9.79E-11	9609	0.22	2.62E-12	9835	0.10	1.41E-03
9347	-0.16	1.22E-09	9617	-0.23	1.77E-09	9837	-0.12	5.99E-03
10644	0.18	1.24E-04	9618	0.21	1.10E-03	9838	-0.10	1.63E-04

10647	0.10	8.66E-03	9626	0.12	4.10E-04	9844	0.13	1.76E-04
10649	0.12	1.97E-06	9628	-0.21	7.79E-06	9851	-0.32	5.75E-08
10655	-0.09	5.05E-04	11038	-0.08	1.23E-03	11348	-0.12	4.70E-03
10666	-0.11	5.68E-03	11048	-0.17	2.31E-04	11350	0.11	5.77E-05
10668	-0.15	3.08E-03	11053	0.14	8.04E-05	11352	0.09	9.20E-04
10674	-0.16	7.18E-09	11058	0.10	5.79E-03	11355	-0.15	4.05E-04
10677	0.17	9.25E-09	11060	0.09	3.00E-03	11359	-0.07	8.85E-03
10688	-0.13	1.92E-06	11088	0.20	5.27E-16	11360	0.14	1.50E-06
10696	-0.09	2.83E-03	11090	0.12	4.02E-04	11362	-0.26	1.18E-04
10717	-0.13	7.06E-06	11094	0.15	2.14E-06	11374	-0.08	2.58E-03
10722	0.19	9.42E-09	11096	0.24	3.22E-08	11382	-0.11	9.20E-05
10724	-0.20	7.90E-05	11102	0.12	2.77E-06	11384	-0.11	7.63E-05
10728	0.14	6.86E-04	11103	0.14	1.29E-07	11386	-0.15	3.24E-03
10733	0.09	3.61E-03	11108	-0.09	4.95E-04	11390	-0.11	1.90E-04
10734	0.08	1.41E-03	11110	-0.15	3.80E-05	11396	0.07	5.50E-03
10738	-0.11	4.44E-03	11116	-0.14	2.72E-04	11408	-0.11	6.79E-04
10740	0.10	8.86E-04	11117	0.17	3.97E-04	11410	-0.08	2.88E-03
10744	-0.19	1.60E-05	11127	-0.16	3.58E-08	11415	-0.22	6.75E-04
10746	-0.07	5.78E-04	11132	0.09	4.98E-03	11417	0.07	9.71E-03
10748	0.10	7.47E-04	11139	-0.09	2.14E-04	11425	-0.09	6.80E-04
10758	-0.15	3.38E-03	11142	0.09	1.28E-03	11427	-0.10	4.27E-03
10763	-0.25	6.13E-06	11149	0.13	4.01E-07	11440	-0.13	3.72E-03
10775	-0.11	3.55E-05	11151	0.12	1.48E-03	11444	0.20	3.61E-10
10778	0.12	3.74E-06	11153	-0.14	1.80E-07	11446	0.13	3.07E-05
10791	-0.12	2.94E-06	11157	-0.15	1.27E-06	11456	0.09	1.60E-03
10798	0.10	1.13E-04	11159	0.09	5.00E-04	11462	0.16	4.53E-07
10805	-0.17	2.43E-03	11166	-0.08	1.71E-03	11471	0.12	3.84E-07
10811	-0.17	2.42E-03	11172	-0.18	2.71E-12	11475	0.14	9.04E-08
10813	0.18	2.05E-09	11173	0.15	7.98E-10	11485	-0.15	1.80E-04
10828	-0.09	1.28E-03	11174	0.11	6.70E-05	11489	0.14	5.47E-04
10837	0.15	6.03E-09	11177	0.20	1.80E-04	11497	0.20	1.65E-11
10838	0.16	1.85E-09	11181	-0.22	3.21E-06	11499	0.08	6.50E-03
10854	-0.15	1.52E-03	11184	0.14	1.26E-07	11501	0.08	1.42E-03
10865	0.09	8.05E-04	11188	0.10	1.48E-04	11512	0.10	7.45E-03
10872	-0.17	2.17E-07	11196	0.15	3.43E-09	11521	0.14	4.45E-05
10888	-0.17	1.20E-06	11201	-0.11	8.42E-03	11541	0.11	5.07E-03
10889	-0.08	7.16E-04	11202	-0.12	5.42E-06	11547	0.08	6.84E-03
10897	0.20	2.21E-03	11206	-0.08	7.38E-03	11549	-0.15	3.94E-04

10898	0.15	2.76E-03	11210	0.15	2.06E-03	11551	-0.10	1.55E-04
10906	-0.10	1.42E-03	11224	0.10	6.18E-04	11553	0.07	6.11E-03
10913	-0.11	2.80E-05	11236	-0.13	2.11E-03	11556	0.15	5.25E-07
10917	-0.09	9.98E-03	11237	0.12	2.43E-03	11560	-0.08	3.80E-03
10923	-0.17	6.83E-06	11239	-0.10	6.44E-03	11569	0.08	3.98E-03
10924	0.10	1.49E-04	11241	0.09	5.11E-03	11574	-0.19	1.67E-04
10926	-0.17	7.92E-04	11244	0.13	3.08E-07	11577	0.09	5.41E-04
10934	-0.13	1.92E-04	11249	-0.07	3.22E-03	11582	0.07	1.65E-03
10943	-0.13	3.07E-03	11251	0.12	5.99E-06	11593	0.12	2.10E-04
10948	-0.12	2.06E-05	11254	-0.08	3.23E-05	11594	0.16	4.68E-11
10952	0.12	5.11E-05	11282	0.15	2.99E-03	11602	0.11	6.29E-04
10965	0.11	3.41E-05	11284	-0.16	1.31E-08	11603	0.10	6.06E-04
10967	0.07	8.11E-03	11288	-0.10	5.91E-03	11605	-0.16	4.40E-09
10974	-0.09	9.95E-03	11290	-0.12	2.94E-05	11613	0.08	2.75E-03
10977	-0.10	9.42E-04	11292	0.24	3.19E-13	11618	0.17	9.69E-09
10980	0.11	9.31E-06	11294	-0.16	8.96E-05	11619	0.07	4.30E-03
10984	-0.11	1.07E-03	11303	-0.07	2.92E-03	11621	-0.11	2.22E-04
10985	-0.14	3.45E-08	11305	0.08	8.26E-03	11622	0.09	1.08E-03
363								
10987	-0.18	4.15E-07	11306	-0.16	1.53E-10	11628	-0.11	9.34E-05
10992	-0.11	1.01E-04	11311	-0.15	3.78E-07	11631	0.11	5.80E-06
10995	-0.16	1.22E-06	11312	0.09	3.37E-03	11636	0.11	1.47E-05
11012	-0.08	3.32E-03	11314	-0.15	9.23E-09	11639	-0.12	5.29E-04
11013	-0.12	8.81E-05	11316	-0.09	3.50E-03	11641	0.10	1.18E-03
11027	-0.12	7.01E-03	11321	-0.18	1.64E-10	11647	-0.27	2.15E-07
11029	0.18	1.08E-09	11323	-0.20	1.14E-07	11649	-0.17	2.03E-10
12693	0.09	2.88E-04	11337	0.12	1.68E-06	11659	-0.14	2.50E-08
12705	-0.07	4.46E-03	11340	0.14	7.88E-08	11666	-0.18	6.25E-05
12711	0.09	5.05E-03	11344	0.10	4.01E-04	11680	-0.08	1.11E-03
12725	-0.20	1.68E-09	13099	-0.12	2.70E-04	13495	0.10	2.61E-04
12728	-0.17	1.52E-05	13107	-0.08	5.81E-03	13496	-0.08	6.19E-03
12740	-0.09	1.57E-03	13108	0.13	1.02E-06	13501	-0.08	2.90E-03
12743	0.07	2.79E-03	13109	0.12	1.09E-05	13517	-0.16	4.61E-05
12752	-0.10	7.27E-04	13111	0.10	1.28E-04	13519	0.23	4.80E-10
12754	-0.12	3.39E-03	13123	-0.17	5.95E-05	13523	0.15	6.04E-06
12766	-0.13	2.76E-03	13124	-0.07	5.58E-04	13526	0.08	2.01E-03
12781	-0.13	2.12E-04	13126	-0.16	1.34E-08	13527	-0.25	3.83E-21
12788	-0.20	5.42E-04	13128	-0.21	9.18E-06	13538	-0.17	1.76E-08

12794	-0.14	2.76E-07	13131	0.07	8.70E-03	13540	-0.28	2.46E-04
12798	-0.11	1.74E-05	13132	0.11	7.92E-06	13565	-0.15	2.99E-08
12799	0.24	1.18E-16	13139	0.15	2.17E-07	13575	0.17	3.74E-04
12802	0.08	5.83E-03	13142	-0.18	6.87E-05	13578	0.14	4.78E-08
12804	-0.27	1.96E-04	13143	0.23	1.10E-16	13583	0.11	1.01E-04
12814	-0.24	6.72E-05	13149	0.18	3.83E-09	13592	-0.23	1.79E-03
12816	-0.21	1.60E-07	13161	-0.16	9.45E-10	13603	-0.09	8.23E-04
12820	0.15	1.61E-03	13178	0.07	7.03E-03	13608	0.17	2.16E-11
12827	-0.20	6.67E-05	13184	-0.11	1.94E-03	13609	0.10	1.79E-04
12828	-0.09	1.88E-03	13191	-0.18	4.07E-06	13614	0.08	1.65E-03
12833	-0.11	9.26E-05	13199	-0.11	1.90E-03	13626	-0.23	2.05E-03
12837	0.08	3.15E-03	13200	0.10	3.79E-03	13629	0.15	1.73E-09
12849	-0.08	1.09E-03	13205	0.08	3.09E-03	13632	-0.13	3.64E-04
12850	0.14	2.39E-08	13211	-0.20	5.31E-04	13635	-0.12	7.63E-06
12865	0.15	4.37E-03	13212	0.09	9.69E-04	13637	-0.11	2.40E-04
12868	-0.10	1.89E-04	13214	0.10	2.78E-04	13656	-0.12	1.13E-08
12876	-0.18	2.95E-08	13230	-0.08	3.15E-03	13663	-0.10	3.21E-04
12880	0.09	7.02E-03	13238	-0.08	1.08E-03	13668	0.17	5.28E-06
12882	-0.16	7.32E-05	13243	0.13	1.70E-03	13702	-0.16	2.38E-07
12885	0.16	5.25E-11	13254	0.11	1.72E-05	13706	0.21	3.23E-08
12889	0.13	2.19E-06	13258	-0.14	3.26E-03	13707	-0.19	1.41E-03
12902	-0.15	1.93E-07	13264	-0.11	8.61E-06	13710	0.07	4.68E-03
12905	-0.09	7.37E-03	13276	0.15	7.99E-09	13711	0.13	5.95E-03
12917	0.07	4.97E-03	13279	-0.26	2.07E-04	13712	-0.09	1.10E-03
12927	-0.24	4.49E-19	13292	0.14	7.89E-04	13713	-0.08	2.17E-03
12929	-0.12	7.76E-05	13296	0.15	6.55E-06	13724	-0.07	6.21E-03
12938	-0.21	7.37E-05	13302	0.10	1.71E-04	13737	0.09	1.33E-03
12940	0.10	2.14E-04	13305	-0.24	1.08E-09	13740	0.12	7.83E-06
12945	0.09	1.03E-03	13306	-0.17	2.89E-03	13755	0.10	6.87E-03
12948	-0.25	7.50E-08	13310	0.09	4.33E-04	13763	-0.15	3.11E-03
12952	0.09	2.99E-04	13315	-0.30	2.81E-04	13767	-0.07	6.43E-03
12977	0.16	8.64E-07	13318	-0.15	2.28E-04	13772	0.12	2.62E-06
12979	-0.10	1.95E-03	13326	0.17	3.71E-06	13777	0.09	3.68E-03
12993	0.10	1.01E-04	13328	0.15	5.75E-07	13783	-0.14	2.20E-07
12994	-0.15	4.52E-08	13332	-0.15	1.34E-03	13788	-0.11	2.07E-03
12995	0.08	4.04E-03	13355	-0.13	4.59E-06	13791	0.14	3.44E-08
13000	-0.18	3.35E-12	13365	-0.19	4.46E-03	13793	-0.16	1.40E-06
13002	-0.14	3.10E-06	13367	0.09	1.46E-04	13795	0.16	1.25E-08

13003	-0.14	3.30E-05	13368	-0.16	8.38E-03	13812	-0.08	3.48E-03
13007	0.10	8.07E-03	13372	-0.09	1.26E-03	13813	-0.15	2.07E-08
13009	-0.10	6.27E-04	13382	0.14	2.05E-04	13814	-0.16	1.79E-04
13010	0.10	5.54E-05	13393	0.19	8.14E-04	13831	-0.10	8.92E-04
13020	0.13	5.91E-07	13394	-0.09	7.57E-03	13839	-0.12	2.31E-04
13031	-0.19	2.01E-04	13407	0.09	3.50E-04	13843	-0.12	7.82E-03
364								
13043	0.09	2.01E-04	13411	0.08	5.87E-03	13852	0.10	1.56E-04
13051	0.15	3.54E-10	13434	0.10	3.22E-04	13865	-0.25	2.51E-03
13055	0.08	2.96E-03	13441	0.07	8.49E-03	13869	-0.12	1.03E-03
13070	-0.24	1.58E-03	13448	0.08	6.78E-03	13878	-0.12	5.64E-05
13072	-0.19	1.96E-03	13457	-0.14	3.10E-06	13885	0.11	9.31E-04
13075	0.09	2.48E-04	13466	-0.09	1.77E-03	13891	-0.14	2.49E-04
13086	-0.21	6.53E-03	13472	-0.17	2.34E-03	13898	0.18	7.20E-09
13089	-0.13	9.77E-04	13484	0.09	4.76E-03	13899	-0.14	1.66E-05
15327	-0.15	1.12E-03	13485	0.10	1.97E-03	8886	0.04	5.00E-02
15331	-0.16	4.96E-07	13486	0.12	3.88E-04	8895	-0.04	5.00E-02
15333	0.14	2.31E-08	13491	-0.31	1.42E-04	9176	-0.11	5.00E-02
15351	0.12	7.19E-05	11105	-0.08	5.00E-02	9579	0.03	5.00E-02
15359	0.07	6.01E-03	11319	-0.25	5.00E-02	9611	-0.04	5.00E-02
15368	-0.13	2.10E-05	11320	-0.05	5.00E-02	9762	0.54	5.00E-02
15375	-0.09	4.69E-03	11332	-0.06	5.00E-02	9821	0.07	5.00E-02
15379	0.08	6.83E-03	11377	0.21	5.00E-02			
104	0.06	5.00E-02	11670	0.28	5.00E-02			
903	-0.09	5.00E-02	12548	-0.22	5.00E-02			
1022	0.16	5.00E-02	12758	0.28	5.00E-02			
1258	0.05	5.00E-02	12845	0.36	5.00E-02			
1515	0.03	5.00E-02	13285	0.41	5.00E-02			
1742	0.42	5.00E-02	13334	-0.58	5.00E-02			
1812	-0.06	5.00E-02	13451	-0.17	5.00E-02			
1972	-0.04	5.00E-02	13650	-0.36	5.00E-02			
2021	0.08	5.00E-02	14250	-0.24	5.00E-02			
2498	0.04	5.00E-02	14345	0.21	5.00E-02			
2808	-0.29	5.00E-02	14527	0.10	5.00E-02			
2993	-0.05	5.00E-02	14731	0.25	5.00E-02			
3090	-0.16	5.00E-02	14764	-0.44	5.00E-02			
3211	0.03	5.00E-02	14880	1.02	5.00E-02			
3605	0.29	5.00E-02	14930	0.37	5.00E-02			

3774	-0.08	5.00E-02	14981	-0.04	5.00E-02
3920	-0.04	5.00E-02	15287	-0.89	5.00E-02
4423	0.04	5.00E-02	15290	0.13	5.00E-02
4573	-0.04	5.00E-02	15364	0.03	5.00E-02
4823	0.08	5.00E-02	13900	-0.09	5.46E-04
4931	0.03	5.00E-02	13906	-0.12	1.32E-04
5362	0.20	5.00E-02	13916	-0.21	4.22E-05
5533	-0.21	5.00E-02	14330	-0.13	1.01E-06
5598	-0.10	5.00E-02	14333	0.08	4.85E-03
5612	0.05	5.00E-02	14334	-0.08	4.22E-03
5773	-0.33	5.00E-02	14783	0.12	5.62E-07
6153	-0.35	5.00E-02	14790	-0.17	4.67E-04
6814	0.05	5.00E-02	14791	0.15	1.38E-07
6901	-0.03	5.00E-02	15302	0.19	8.26E-09
6905	-0.05	5.00E-02	15309	0.15	6.27E-09
7171	0.04	5.00E-02	15320	-0.15	8.87E-03
7254	0.04	5.00E-02	9839	-0.08	5.00E-02
7257	-0.04	5.00E-02	9930	0.04	5.00E-02
7342	-0.29	5.00E-02	10394	-0.10	5.00E-02
7381	0.04	5.00E-02	10430	-0.04	5.00E-02
7589	0.05	5.00E-02	10529	-0.05	5.00E-02
7762	0.06	5.00E-02	10652	0.39	5.00E-02
7780	0.28	5.00E-02	10673	-0.26	5.00E-02
7904	0.05	5.00E-02	10804	-0.12	5.00E-02
8268	0.30	5.00E-02	10835	0.03	5.00E-02

A	B	C	A	B	C	A	B	C
777	-0.13	1.53E-03	1035	-0.12	1.37E-04	1305	0.15	1.21E-08
779	-0.31	5.10E-14	1037	-0.13	8.12E-05	1309	0.16	1.48E-04
784	-0.21	7.11E-06	1045	-0.11	8.03E-04	1311	0.12	2.08E-03
788	-0.17	6.49E-03	1049	-0.11	3.48E-05	1319	0.10	1.95E-03
790	0.10	1.46E-03	1050	-0.11	1.08E-03	1320	-0.09	9.30E-04
793	0.12	1.37E-04	1056	0.15	2.41E-08	1333	0.12	5.21E-03
794	0.20	5.08E-08	1065	-0.10	1.82E-04	1339	-0.17	1.92E-09
801	-0.27	7.68E-08	1068	-0.11	7.87E-04	1348	-0.10	4.94E-03
808	-0.13	1.49E-05	1069	-0.11	5.41E-04	1355	0.08	2.07E-03
812	0.17	6.48E-09	1075	-0.15	9.33E-04	1357	0.12	8.00E-03
818	0.15	8.44E-04	1084	0.11	5.19E-05	1364	0.18	6.10E-13
829	0.16	2.11E-07	1089	-0.11	1.76E-05	1370	-0.35	1.17E-08
833	-0.26	3.10E-05	1094	0.10	2.36E-04	1373	0.10	8.59E-03
837	-0.10	1.27E-03	1097	-0.16	9.63E-10	1375	-0.11	4.16E-04
840	-0.22	7.88E-08	1098	-0.10	1.48E-04	1378	-0.13	3.25E-04
844	0.08	1.93E-03	1099	-0.10	6.92E-04	1380	-0.30	9.21E-11
846	-0.21	4.90E-08	1100	-0.10	1.55E-03	1385	-0.21	1.27E-13
850	-0.07	2.96E-03	1108	-0.09	3.44E-04	1389	0.17	5.41E-05
854	-0.10	1.78E-03	1110	-0.19	8.80E-14	1390	-0.27	4.28E-07
858	-0.11	2.90E-05	1113	-0.06	7.24E-03	1393	-0.14	1.03E-08
864	0.14	1.23E-07	1121	-0.10	2.75E-03	1395	0.08	1.24E-03
865	0.14	9.94E-06	1122	0.09	5.22E-04	1396	-0.11	4.28E-05
867	-0.18	8.02E-12	1139	0.10	2.40E-04	1397	0.11	6.41E-05
870	0.09	5.40E-04	1140	0.17	4.99E-11	1400	-0.16	1.67E-03
871	-0.12	4.18E-05	1142	-0.10	3.69E-04	1401	-0.09	1.21E-03
873	-0.13	1.25E-05	1152	0.17	5.98E-06	1406	-0.23	1.26E-15
875	-0.10	2.95E-03	1154	-0.13	8.20E-04	1409	0.08	4.62E-05
882	-0.10	1.98E-03	1161	0.12	2.52E-07	1410	-0.11	2.11E-04
885	-0.20	1.01E-07	1162	0.08	2.44E-04	1411	0.21	1.88E-10
888	-0.09	8.67E-03	1164	0.09	9.25E-04	1421	0.05	8.00E-03
900	0.11	2.05E-05	1170	-0.11	8.47E-08	1429	-0.13	1.10E-06
901	-0.10	1.31E-04	1171	0.11	2.48E-05	1430	-0.08	1.34E-03
916	0.10	1.08E-03	1174	-0.12	4.23E-03	1431	0.12	3.05E-06
919	0.11	1.46E-03	1183	0.08	2.81E-03	1434	0.09	5.45E-05
925	-0.14	5.55E-03	1185	0.11	1.51E-04	1436	-0.21	8.24E-12

928	0.16	1.56E-10	1186	0.08	1.50E-03	1439	0.13	9.34E-07
934	-0.11	5.40E-05	1187	0.13	3.69E-07	1448	-0.13	6.66E-07
936	-0.10	2.93E-04	1188	0.13	3.33E-07	1451	0.10	3.35E-03
937	-0.16	7.98E-03	1193	0.07	4.84E-03	1455	0.12	6.93E-03
939	0.16	3.59E-09	1194	0.10	1.50E-04	1456	-0.10	3.44E-04
940	-0.07	9.24E-03	1195	0.14	3.15E-08	1459	0.09	2.93E-03
942	-0.22	5.71E-04	1213	0.10	1.60E-04	1464	0.21	9.52E-17
944	-0.16	4.81E-06	1217	0.25	1.46E-06	1467	0.11	3.37E-05
945	0.17	9.69E-11	1229	-0.11	8.89E-05	1472	-0.14	1.01E-07
949	-0.16	8.75E-08	1230	0.18	6.27E-04	1475	-0.13	6.53E-07
951	-0.14	7.47E-05	1231	0.08	8.91E-03	1478	0.17	1.09E-07
954	0.19	1.53E-13	1238	0.11	1.64E-06	1480	0.17	9.99E-03
962	0.16	3.29E-07	1239	-0.14	4.45E-06	1491	0.20	1.72E-12
963	-0.26	6.06E-07	1241	0.15	8.38E-03	1498	-0.26	3.49E-21
964	0.12	5.44E-04	1244	0.16	2.76E-10	1500	0.10	7.39E-04
975	0.10	9.19E-05	1252	-0.11	4.48E-04	1507	0.19	3.92E-07
979	0.10	1.85E-04	1254	-0.16	1.67E-05	1512	-0.18	4.16E-03
983	-0.12	8.18E-03	1256	0.10	8.95E-05	1516	0.13	5.02E-04
984	0.15	7.51E-09	1264	0.10	2.84E-04	1524	0.10	1.87E-04
993	0.07	6.15E-03	1265	0.12	3.90E-05	1526	-0.11	1.75E-05
998	0.11	6.79E-05	1266	-0.11	3.47E-05	1529	-0.11	1.19E-03
1005	0.17	3.22E-03	1272	-0.13	9.38E-03	1530	-0.14	3.88E-07
1006	-0.14	7.30E-03	1276	-0.13	3.52E-04	1533	0.17	6.75E-11
1009	-0.11	1.04E-04	1278	-0.07	8.38E-03	1535	-0.14	6.90E-03
1012	0.12	2.33E-05	1281	0.08	5.11E-03	1541	0.14	2.10E-06
1016	-0.11	2.76E-05	1283	0.09	6.52E-03	1545	0.16	1.57E-06
1021	0.09	3.06E-03	1287	-0.21	3.49E-11	1550	-0.07	4.13E-04
1028	-0.17	2.88E-03	1291	0.13	4.42E-06	1551	0.08	8.12E-03
1029	-0.11	2.55E-04	1303	0.05	6.98E-03	1552	0.07	5.22E-03
2324	-0.15	2.89E-07	2580	0.08	4.02E-03	2844	-0.15	8.18E-03
2325	-0.14	2.30E-06	2582	-0.09	6.55E-04	2845	-0.17	7.06E-03
2328	0.07	6.61E-03	2583	0.13	3.32E-06	2848	-0.18	2.20E-11
2335	-0.21	1.04E-13	2587	-0.11	5.50E-04	2850	-0.14	2.08E-03
2343	0.10	9.93E-05	2591	-0.09	1.39E-03	2859	0.07	2.98E-03
2344	0.09	2.38E-03	2595	0.11	5.40E-06	2860	0.18	2.53E-03
2345	-0.07	5.34E-03	2599	-0.11	2.16E-04	2866	-0.08	7.51E-03
2354	-0.19	6.14E-03	2604	-0.10	6.94E-04	2873	0.18	8.69E-04

2364	-0.08	5.58E-03	2608	0.15	4.69E-09	2874	-0.21	1.13E-11
2369	-0.14	4.37E-07	2611	-0.15	5.19E-05	2878	-0.09	5.48E-04
2371	-0.10	9.71E-03	2612	-0.14	3.94E-07	2880	-0.19	3.69E-03
2373	-0.24	7.95E-07	2613	-0.16	1.00E-07	2882	0.14	1.04E-06
2388	-0.11	2.52E-08	2615	0.10	9.74E-05	2887	-0.30	7.56E-04
2389	-0.22	3.40E-15	2617	-0.11	5.22E-03	2888	-0.10	2.03E-04
2391	-0.08	7.32E-03	2620	0.07	6.85E-04	2889	0.09	1.27E-03
2393	-0.10	6.04E-05	2633	-0.15	8.12E-03	2890	0.16	1.03E-12
2394	-0.09	1.98E-03	2638	-0.17	6.72E-03	2896	-0.18	1.70E-06
2400	0.17	2.58E-10	2640	0.25	8.16E-06	2900	0.12	1.39E-04
2401	-0.09	4.04E-03	2646	0.10	3.51E-04	2901	-0.12	1.72E-04
2406	0.16	1.14E-09	2647	0.12	3.58E-05	2907	-0.11	2.05E-04
2408	0.11	4.98E-05	2649	-0.14	6.26E-08	2914	0.15	1.10E-06
2412	0.13	2.01E-04	2650	0.09	1.58E-04	2921	-0.07	5.32E-03
2413	0.10	2.21E-04	2664	0.09	2.21E-04	2922	0.11	2.07E-03
2414	0.10	2.70E-04	2665	0.10	2.07E-04	2924	0.14	1.68E-07
2415	-0.15	2.94E-03	2667	0.14	7.34E-04	2932	0.15	2.57E-03
2422	-0.13	1.56E-05	2668	-0.22	2.02E-16	2941	-0.22	4.86E-09
2423	0.05	7.30E-03	2670	-0.14	6.69E-04	2946	0.09	8.61E-04
2424	-0.15	7.54E-04	2684	0.15	3.84E-05	2954	-0.06	1.49E-03
2427	-0.08	5.32E-03	2688	-0.13	4.11E-06	2955	-0.21	1.58E-05
2432	0.13	7.81E-06	2692	0.15	3.69E-06	2959	-0.24	4.47E-18
2437	-0.14	1.41E-06	2693	0.17	8.89E-10	2961	-0.17	4.09E-03
2446	0.19	1.06E-12	2696	0.16	3.51E-10	2965	0.10	1.11E-04
2452	0.17	9.53E-06	2705	-0.10	8.79E-05	2967	-0.11	2.13E-04
2453	-0.14	1.04E-07	2707	-0.20	1.73E-11	2968	-0.13	6.14E-06
2465	-0.19	5.70E-14	2714	-0.18	5.24E-04	2971	-0.17	2.37E-10
2466	-0.20	1.17E-14	2715	0.08	4.30E-03	2974	-0.22	5.24E-09
2470	-0.19	2.21E-05	2721	0.08	8.49E-03	2978	-0.07	9.94E-03
2471	0.15	1.26E-09	2722	-0.15	5.30E-09	2995	0.16	3.61E-09
2472	-0.13	2.67E-05	2727	0.08	4.26E-03	2998	-0.12	6.42E-04
2479	0.08	2.41E-05	2730	-0.21	2.13E-04	3003	0.20	5.85E-07
2480	0.07	8.38E-05	2731	-0.21	2.26E-04	3008	0.11	1.41E-03
2486	0.10	2.83E-04	2735	0.09	1.94E-04	3010	-0.10	5.42E-03
2489	0.12	6.26E-04	2743	0.15	3.41E-06	3015	0.09	4.83E-03
2491	0.20	1.98E-15	2746	0.06	1.82E-03	3026	-0.09	4.26E-04
2497	0.07	8.94E-03	2750	-0.24	2.90E-03	3027	-0.13	4.31E-04
2499	0.09	3.12E-03	2752	-0.25	4.61E-08	3031	0.13	1.81E-03

2501	-0.11	7.81E-10	2754	0.14	8.53E-09	3033	-0.27	1.37E-05
2505	-0.08	2.81E-03	2756	-0.20	3.86E-15	3034	0.16	4.88E-07
2508	-0.07	4.09E-03	2760	-0.15	1.41E-08	3037	-0.10	1.64E-04
2514	-0.09	1.59E-03	2761	-0.15	7.69E-09	3040	-0.07	4.29E-03
2518	0.10	2.13E-04	2772	-0.15	1.66E-07	3044	-0.26	4.42E-11
2522	-0.11	1.89E-05	2773	-0.14	8.95E-04	3048	0.20	6.25E-11
2523	-0.12	5.02E-06	2781	0.19	3.16E-09	3050	-0.21	3.86E-08
2531	-0.17	9.12E-03	2782	0.10	5.12E-08	3053	0.18	1.91E-08
2532	-0.14	7.67E-07	2790	0.11	2.69E-05	3057	-0.11	1.43E-04
2535	0.17	3.30E-06	2796	0.13	2.98E-07	3069	0.10	1.59E-04
2540	0.10	3.22E-05	2801	0.08	4.24E-03	3072	0.13	2.57E-04
2545	-0.13	3.22E-04	2816	-0.21	2.17E-05	3074	-0.10	9.64E-03
2547	-0.08	1.08E-03	2824	0.11	3.39E-05	3077	0.09	9.50E-04
2550	-0.21	1.32E-05	2829	-0.21	5.11E-08	3079	-0.11	6.55E-05
2571	-0.11	3.53E-04	2830	-0.22	3.11E-08	3085	-0.13	3.07E-05
2575	0.15	9.56E-04	2832	0.09	1.29E-03	3089	-0.12	1.08E-05
2577	-0.18	3.03E-04	2838	-0.12	1.53E-04	3092	0.15	4.70E-03
2578	-0.18	3.75E-05	2843	0.11	3.52E-06	3094	-0.05	8.29E-03
3879	-0.11	7.94E-05	4121	-0.21	2.74E-11	4396	0.16	4.45E-10
3884	-0.12	3.95E-06	4122	-0.08	3.05E-03	4398	-0.16	6.20E-08
3885	0.11	2.27E-05	4130	0.09	2.76E-04	4399	0.12	2.34E-03
3886	0.12	1.26E-05	4131	-0.17	4.47E-03	4400	-0.21	2.47E-06
3889	-0.21	1.64E-04	4134	-0.18	4.05E-11	4401	-0.22	3.80E-08
3900	-0.08	1.24E-03	4135	-0.10	3.50E-03	4405	-0.21	8.09E-06
3902	-0.15	1.02E-05	4149	-0.08	5.75E-03	4415	-0.11	6.46E-05
3904	-0.08	6.27E-03	4150	0.08	2.63E-03	4417	0.08	9.85E-03
3914	-0.23	3.85E-18	4155	0.14	1.40E-07	4418	-0.11	8.92E-03
3918	-0.12	1.87E-04	4156	0.14	1.09E-07	4425	0.10	1.84E-05
3922	-0.13	9.79E-08	4164	0.07	8.44E-03	4426	-0.19	1.39E-09
3925	0.13	3.70E-03	4165	-0.10	2.40E-04	4430	0.11	1.55E-05
3926	0.13	2.07E-07	4166	-0.10	3.04E-04	4435	-0.20	5.84E-05
3927	-0.16	4.63E-08	4170	0.17	3.77E-09	4440	-0.21	3.33E-04
3929	0.07	3.57E-03	4184	-0.10	4.50E-03	4445	0.10	2.17E-03
3931	0.09	4.52E-03	4187	0.09	7.45E-03	4446	-0.25	1.99E-14
3937	-0.09	9.51E-04	4194	-0.17	6.31E-08	4447	-0.10	1.06E-05
3938	0.15	2.84E-06	4197	-0.08	1.67E-03	4451	-0.08	6.16E-03
3940	0.08	1.23E-03	4202	0.10	7.98E-05	4452	-0.07	8.67E-03

3945	-0.19	1.56E-04	4204	-0.07	2.93E-03	4458	-0.08	1.24E-03
3946	0.21	9.23E-16	4214	-0.28	2.56E-09	4470	0.10	4.34E-05
3947	-0.07	7.51E-03	4215	0.08	1.05E-03	4478	-0.20	6.69E-10
3956	-0.12	1.27E-03	4219	0.14	7.93E-04	4485	-0.11	1.88E-05
3971	0.15	1.31E-04	4231	0.13	3.24E-06	4487	0.20	4.74E-16
3972	0.16	1.58E-07	4234	-0.16	2.17E-06	4491	-0.09	7.38E-03
3974	0.09	3.45E-04	4236	0.19	4.88E-06	4493	-0.15	6.85E-06
3978	-0.14	1.19E-07	4239	-0.17	7.95E-03	4501	0.12	7.61E-05
3983	0.14	3.39E-08	4244	-0.15	8.46E-07	4502	0.07	5.17E-03
3985	-0.17	7.20E-03	4245	-0.13	9.10E-04	4505	0.10	3.27E-05
3994	0.09	7.04E-04	4246	-0.09	1.57E-03	4515	0.07	7.26E-03
3996	-0.10	2.75E-03	4248	-0.23	2.54E-04	4523	0.13	6.07E-07
3998	-0.18	4.62E-03	4252	-0.14	3.29E-08	4525	-0.12	6.86E-04
4002	-0.09	3.50E-03	4258	0.11	1.63E-03	4528	-0.22	6.37E-08
4015	0.09	1.27E-03	4259	0.22	5.16E-13	4529	-0.25	6.12E-05
4022	-0.12	4.47E-04	4261	0.08	8.17E-04	4536	0.12	4.85E-06
4023	-0.15	2.28E-03	4265	0.09	6.39E-03	4542	0.22	2.02E-18
4025	0.20	4.68E-15	4266	-0.18	2.06E-03	4543	0.15	5.07E-04
4027	0.12	2.87E-07	4268	-0.06	9.08E-03	4545	0.08	2.53E-03
4028	-0.24	9.10E-08	4274	-0.09	5.88E-04	4551	-0.15	7.96E-05
4030	-0.08	3.84E-03	4276	-0.11	2.83E-04	4554	0.12	2.61E-04
4031	-0.15	4.84E-03	4277	-0.09	7.89E-04	4558	0.11	1.10E-03
4032	0.16	5.61E-09	4278	-0.11	1.72E-05	4559	0.11	1.39E-03
4035	-0.09	4.23E-03	4282	0.07	1.37E-03	4560	-0.13	7.88E-07
4039	0.09	7.28E-04	4284	-0.09	8.77E-03	4561	0.08	5.27E-03
4041	-0.16	2.50E-06	4297	0.10	9.15E-05	4562	-0.07	7.39E-03
4043	0.07	2.41E-03	4299	-0.15	1.98E-06	4565	0.10	4.38E-03
4044	-0.21	6.88E-10	4301	-0.18	2.27E-05	4567	-0.15	2.08E-04
4045	0.15	7.68E-08	4313	0.12	2.12E-06	4568	-0.06	4.00E-03
4050	0.09	5.44E-04	4314	0.06	6.99E-03	4572	-0.14	3.79E-03
4051	-0.17	6.62E-13	4315	-0.10	3.16E-04	4576	0.09	2.84E-04
4052	-0.20	2.62E-14	4321	-0.12	5.50E-03	4577	-0.10	8.49E-03
4057	0.09	4.33E-04	4327	0.11	1.49E-03	4578	0.09	2.29E-04
4058	0.07	2.83E-03	4328	0.16	1.65E-04	4581	0.15	1.97E-09
4059	0.09	9.03E-04	4331	-0.07	9.92E-03	4582	0.10	1.03E-04
4060	0.13	3.05E-07	4334	0.18	1.67E-13	4583	0.18	3.20E-12
4061	0.13	3.24E-07	4341	0.12	1.44E-04	4584	0.10	4.45E-04
4070	-0.09	1.52E-03	4343	0.11	3.99E-04	4589	0.09	1.37E-03

4075	-0.18	3.16E-12	4352	0.14	8.77E-08	4602	0.24	3.25E-22
4076	-0.23	1.46E-05	4354	0.10	6.18E-05	4606	-0.12	1.72E-06
4084	0.13	3.17E-06	4358	0.25	1.67E-05	4607	-0.12	1.50E-06
4088	-0.11	3.39E-05	4362	-0.16	9.65E-06	4608	-0.14	3.15E-06
4096	0.18	5.36E-07	4371	0.11	4.95E-03	4611	0.08	4.27E-03
4106	-0.13	1.41E-07	4379	-0.33	2.03E-07	4612	-0.12	6.95E-03
4120	-0.16	5.91E-08	4386	-0.11	3.88E-05	4616	-0.13	9.34E-06
5463	-0.07	4.14E-03	5703	0.23	7.98E-20	5929	-0.13	8.49E-05
5465	0.08	4.31E-03	5704	0.07	8.68E-03	5930	-0.21	3.48E-13
5466	-0.09	8.45E-04	5707	-0.14	1.10E-05	5933	-0.15	9.59E-04
5470	-0.16	5.71E-09	5708	-0.26	2.45E-06	5937	0.15	3.69E-06
5473	-0.11	8.00E-05	5711	-0.08	8.09E-03	5942	0.12	5.01E-04
5480	0.15	1.63E-06	5713	0.11	4.07E-06	5946	-0.10	2.36E-03
5483	0.07	6.99E-03	5714	0.06	5.57E-03	5952	-0.12	2.67E-06
5485	-0.24	6.93E-05	5715	-0.23	7.16E-07	5953	-0.11	4.28E-05
5486	-0.24	6.93E-05	5719	0.07	5.60E-03	5956	-0.19	8.41E-03
5491	0.07	4.40E-03	5723	-0.16	5.70E-04	5966	0.13	3.87E-07
5495	0.17	2.82E-05	5731	0.09	7.15E-04	5968	-0.13	1.60E-07
5499	0.10	1.15E-04	5739	0.05	9.54E-03	5969	-0.08	2.80E-03
5501	0.10	1.37E-04	5741	-0.14	1.84E-08	5970	0.13	1.74E-07
5502	0.09	3.08E-04	5742	-0.13	2.47E-08	5971	0.21	9.46E-18
5505	-0.25	2.30E-06	5746	0.07	6.07E-03	5973	0.08	9.59E-04
5509	0.12	1.27E-05	5752	0.11	6.05E-05	5975	0.11	7.93E-06
5511	-0.14	5.97E-07	5754	0.19	8.33E-14	5979	0.11	1.74E-04
5512	-0.12	5.23E-03	5760	0.08	3.05E-03	5989	0.06	5.29E-04
5513	-0.18	3.46E-09	5761	0.11	1.47E-05	5990	-0.11	1.63E-04
5518	-0.12	4.54E-03	5762	0.11	1.75E-05	5992	-0.10	3.50E-06
5522	-0.17	5.99E-10	5763	0.23	1.08E-04	5993	-0.10	6.79E-03
5527	0.13	8.75E-07	5764	0.13	1.70E-04	5998	-0.11	2.69E-05
5537	-0.06	7.05E-03	5768	-0.09	3.37E-03	6006	-0.15	7.61E-06
5552	-0.10	4.56E-04	5775	0.08	3.90E-03	6013	-0.20	5.97E-04
5554	-0.15	3.50E-04	5777	0.11	3.83E-03	6015	-0.12	1.33E-05
5567	-0.08	1.73E-03	5784	-0.14	3.91E-05	6016	-0.11	7.85E-05
5570	0.17	4.47E-13	5785	-0.26	6.52E-08	6025	-0.21	1.98E-04
5571	0.14	5.43E-03	5791	-0.14	1.21E-07	6031	0.10	8.01E-05
5574	-0.12	4.70E-06	5796	-0.07	4.55E-03	6033	-0.18	1.71E-07
5577	0.11	7.67E-03	5798	-0.12	6.94E-05	6036	-0.21	1.79E-10

5578	0.17	6.86E-09	5806	-0.23	1.92E-07	6037	-0.10	1.35E-03
5579	-0.07	9.83E-03	5807	0.12	1.57E-05	6052	-0.10	2.26E-03
5580	-0.18	1.16E-11	5808	0.19	7.67E-05	6056	0.10	4.90E-03
5583	-0.22	1.30E-03	5815	-0.12	1.83E-03	6066	0.13	4.23E-05
5590	0.15	2.90E-08	5816	-0.21	1.47E-03	6068	0.12	5.55E-06
5593	-0.13	1.31E-04	5819	-0.12	1.18E-04	6071	0.08	1.44E-03
5596	-0.09	1.62E-03	5821	-0.13	2.16E-06	6075	-0.06	7.19E-04
5597	-0.09	1.79E-03	5825	-0.16	8.36E-06	6083	-0.08	9.67E-03
5599	-0.15	5.00E-04	5831	-0.10	1.72E-03	6086	-0.08	8.14E-03
5602	-0.13	4.74E-07	5835	0.16	1.40E-06	6087	-0.09	8.98E-04
5605	-0.19	1.29E-05	5838	-0.20	2.79E-15	6088	-0.09	1.01E-03
5606	-0.17	1.00E-04	5839	-0.12	8.85E-03	6091	0.14	1.51E-03
5608	-0.19	3.35E-13	5841	0.10	2.90E-04	6102	-0.11	3.30E-05
5619	0.10	2.41E-04	5846	0.08	2.62E-03	6103	-0.15	1.80E-07
5623	0.18	1.61E-09	5854	0.15	1.33E-03	6105	0.11	4.57E-06
5624	-0.09	1.59E-03	5856	0.11	1.48E-05	6112	-0.20	1.30E-11
5625	-0.17	1.76E-05	5868	0.17	7.39E-12	6117	-0.16	2.34E-09
5626	0.10	6.63E-04	5871	0.12	8.17E-04	6118	0.12	6.09E-06
5627	0.09	1.20E-03	5872	0.13	1.28E-04	6134	-0.15	3.53E-07
5638	0.15	3.33E-05	5873	-0.08	4.52E-03	6141	0.14	3.34E-07
5639	-0.12	5.46E-06	5875	-0.13	6.62E-05	6143	-0.12	1.05E-05
5646	-0.07	2.73E-03	5884	-0.13	3.89E-07	6148	-0.23	2.14E-03
5647	-0.10	5.10E-04	5887	-0.30	1.24E-10	6150	-0.10	9.99E-03
5648	-0.13	2.94E-04	5896	0.09	5.11E-04	6152	0.09	4.28E-04
5670	0.12	6.53E-06	5897	-0.22	2.73E-16	6158	-0.08	1.12E-03
5674	-0.24	3.43E-10	5901	-0.07	5.30E-03	6175	0.08	2.10E-03
5677	0.12	5.08E-06	5906	0.13	8.46E-07	6177	0.10	1.65E-04
5680	-0.08	7.62E-03	5910	-0.15	5.16E-04	6183	0.17	9.74E-03
5682	0.07	4.73E-03	5914	0.22	4.66E-16	6186	0.08	2.05E-03
5684	0.19	4.46E-04	5918	-0.16	7.42E-06	6187	0.07	9.77E-03
5691	0.09	1.97E-03	5921	-0.20	2.22E-06	6188	0.14	1.02E-03
5693	-0.09	1.18E-04	5922	-0.20	1.20E-05	6195	-0.09	2.05E-03
5695	0.15	2.10E-04	5923	0.08	3.96E-03	6196	-0.07	6.34E-03
5701	0.12	3.05E-03	5924	-0.08	4.03E-03	6197	0.16	4.54E-07
6899	0.14	5.97E-06	7229	0.09	8.00E-04	7472	0.08	6.43E-03
6900	-0.10	9.68E-03	7231	0.07	3.41E-03	7477	-0.08	1.15E-03
6910	0.16	1.01E-05	7232	-0.17	1.30E-10	7478	-0.24	2.76E-04

6925	-0.28	9.56E-05	7233	0.12	2.77E-06	7486	-0.07	8.39E-03
6928	0.15	1.14E-06	7234	-0.11	3.84E-03	7493	0.13	2.01E-06
6933	-0.19	2.71E-04	7238	-0.12	9.11E-05	7495	-0.11	5.94E-04
6934	-0.19	2.71E-04	7239	-0.21	1.86E-04	7496	-0.08	3.81E-03
6936	-0.21	1.54E-11	7247	-0.13	2.12E-04	7502	-0.08	3.13E-03
6945	0.18	1.51E-12	7251	0.15	2.51E-09	7504	-0.13	2.86E-03
6953	0.23	3.83E-19	7255	0.21	1.17E-05	7507	-0.15	2.28E-05
6961	0.18	7.66E-05	7263	0.09	6.70E-04	7508	-0.14	6.60E-04
6962	0.13	1.18E-06	7269	0.12	2.00E-04	7509	0.12	3.67E-06
6976	0.12	1.31E-05	7270	-0.09	1.23E-03	7510	0.28	2.38E-04
6980	-0.07	5.78E-03	7271	-0.12	3.22E-06	7515	-0.23	1.75E-11
6991	-0.10	1.48E-03	7277	0.09	2.63E-03	7516	-0.21	3.80E-11
6996	0.15	2.70E-09	7279	-0.13	4.89E-07	7523	-0.12	7.53E-04
6998	-0.20	5.42E-09	7280	-0.08	6.87E-03	7527	0.17	1.24E-06
6999	-0.15	1.92E-08	7300	0.08	8.33E-03	7530	0.08	3.13E-03
7006	0.10	7.56E-03	7305	-0.09	1.39E-03	7532	-0.12	1.07E-03
7011	-0.15	5.61E-06	7311	-0.10	3.19E-04	7537	0.08	1.26E-05
7012	-0.15	6.79E-06	7313	0.10	1.58E-04	7540	0.10	1.92E-04
7027	-0.23	2.67E-08	7315	-0.19	5.90E-08	7545	0.18	6.15E-10
7028	0.18	2.30E-06	7316	-0.09	2.49E-03	7547	-0.10	7.93E-05
7044	-0.08	9.27E-03	7317	-0.09	4.96E-03	7548	-0.08	3.01E-03
7049	0.08	9.55E-04	7319	-0.20	3.27E-04	7549	-0.11	1.21E-04
7053	-0.13	6.35E-10	7322	-0.08	7.22E-04	7559	0.13	4.54E-06
7056	-0.11	3.73E-03	7323	-0.21	2.14E-05	7560	0.11	3.52E-06
7063	0.06	4.07E-04	7329	-0.26	1.94E-04	7561	0.08	1.84E-03
7064	0.08	1.84E-03	7331	0.22	3.28E-07	7564	-0.12	2.17E-06
7079	0.14	2.20E-08	7335	-0.12	1.50E-03	7568	0.15	1.31E-06
7082	0.12	7.11E-05	7338	-0.11	9.22E-04	7570	-0.11	8.17E-06
7084	-0.15	1.72E-03	7340	-0.12	8.63E-04	7571	0.07	8.76E-04
7086	-0.23	1.55E-12	7345	0.11	1.71E-04	7573	0.14	2.31E-06
7092	0.07	4.31E-03	7355	-0.09	1.51E-04	7575	-0.18	7.63E-05
7101	-0.12	3.56E-07	7357	0.20	1.06E-12	7578	-0.22	2.57E-12
7106	0.09	9.43E-04	7358	0.16	1.31E-06	7581	-0.06	9.95E-04
7107	-0.08	3.55E-03	7360	-0.10	9.29E-03	7582	-0.15	3.16E-08
7116	0.11	2.53E-05	7362	-0.11	1.40E-03	7583	-0.16	1.10E-03
7122	-0.17	8.73E-04	7367	-0.11	3.52E-04	7584	0.09	9.70E-04
7128	0.11	2.97E-05	7374	0.17	1.21E-11	7594	-0.08	9.78E-03
7129	-0.12	5.94E-06	7386	-0.08	1.48E-03	7597	-0.08	1.63E-03

7130	0.16	7.79E-06	7388	-0.08	1.51E-03	7601	-0.16	3.54E-06
7139	-0.17	1.63E-06	7390	0.13	1.66E-03	7605	-0.16	2.19E-07
7140	-0.15	4.07E-03	7396	0.15	7.35E-09	7606	0.12	1.09E-05
7143	0.17	6.91E-04	7401	0.07	7.92E-03	7611	-0.06	9.55E-03
7145	0.07	6.60E-03	7410	0.11	4.73E-05	7621	-0.09	1.73E-03
7149	0.15	1.89E-06	7421	-0.13	1.19E-06	7635	-0.17	4.16E-05
7161	-0.08	7.98E-03	7424	0.09	7.19E-03	7649	-0.23	2.31E-09
7165	-0.15	1.28E-04	7425	-0.10	1.80E-03	7651	0.21	1.08E-03
7166	-0.09	1.89E-03	7426	0.15	7.84E-08	7652	-0.16	2.38E-05
7181	-0.21	2.84E-03	7427	-0.11	5.30E-03	7658	-0.21	6.68E-03
7189	0.13	1.14E-05	7429	0.16	6.21E-10	7659	-0.19	2.76E-06
7190	0.09	9.39E-04	7430	-0.10	4.52E-04	7660	0.21	1.23E-10
7195	-0.18	3.08E-10	7431	0.10	2.17E-03	7663	-0.15	8.53E-03
7197	-0.11	1.23E-04	7434	0.08	7.47E-04	7665	0.16	5.41E-11
7199	-0.12	1.79E-04	7443	-0.18	4.63E-03	7676	-0.10	3.18E-03
7200	-0.11	7.38E-03	7448	-0.20	1.28E-15	7679	0.09	5.74E-04
7202	-0.19	2.67E-04	7449	-0.10	4.12E-04	7684	-0.09	3.56E-03
7204	0.14	3.74E-07	7450	-0.10	5.42E-03	7688	-0.11	2.81E-05
7206	0.08	4.88E-03	7453	-0.09	7.79E-04	7689	0.15	1.97E-09
7208	-0.11	1.35E-03	7460	0.12	4.92E-06	7690	-0.15	4.82E-08
7218	-0.10	3.65E-05	7463	0.09	4.29E-03	7691	-0.15	8.32E-08
7223	-0.15	4.35E-06	7464	-0.12	8.48E-04	7693	-0.14	6.27E-05
7225	-0.29	2.10E-06	7471	-0.11	1.87E-04	7699	0.08	8.21E-03
8402	-0.19	1.42E-06	8666	-0.17	8.37E-03	8867	0.13	4.25E-06
8403	0.09	2.47E-03	8667	-0.21	3.07E-03	8870	-0.10	5.08E-04
8405	0.07	8.10E-03	8668	-0.10	1.14E-03	8880	-0.08	6.76E-03
8413	0.10	5.74E-05	8670	-0.09	1.24E-03	8888	0.08	1.09E-03
8420	0.12	1.33E-06	8676	-0.21	1.58E-13	8893	0.10	4.71E-05
8421	-0.25	1.09E-15	8679	0.09	1.30E-03	8898	-0.14	1.38E-08
8423	-0.14	7.20E-06	8683	-0.15	4.00E-05	8899	-0.10	4.69E-05
8425	-0.08	5.43E-03	8686	0.08	1.47E-03	8902	0.12	1.13E-03
8433	-0.17	1.67E-08	8688	-0.09	1.72E-03	8903	0.13	6.76E-04
8434	-0.30	5.28E-06	8689	0.10	3.20E-04	8908	-0.18	1.91E-13
8436	-0.10	2.43E-03	8692	-0.15	1.80E-03	8909	-0.19	5.10E-04
8446	-0.14	1.07E-07	8693	-0.26	2.61E-15	8910	0.13	4.23E-07
8451	-0.13	3.32E-05	8694	0.09	1.06E-03	8911	0.09	4.60E-04
8454	-0.24	1.03E-16	8699	0.10	7.59E-05	8914	0.13	3.15E-04

8460	-0.10	2.05E-03	8700	0.21	2.51E-12	8915	-0.10	2.32E-03
8464	0.08	1.75E-03	8706	-0.21	2.88E-04	8916	-0.10	3.24E-03
8466	0.15	9.36E-08	8707	-0.26	7.69E-07	8919	-0.15	1.41E-06
8467	0.15	7.19E-10	8708	-0.26	9.92E-07	8922	-0.12	2.21E-06
8476	-0.08	1.87E-03	8710	-0.24	5.99E-11	8925	0.08	9.88E-04
8477	-0.08	2.12E-03	8715	-0.14	3.31E-07	8934	-0.10	1.69E-03
8478	-0.08	2.53E-03	8724	0.18	1.01E-08	8941	-0.18	4.93E-04
8480	0.08	4.59E-03	8728	-0.27	7.75E-15	8944	0.09	6.03E-04
8484	-0.11	2.61E-03	8732	0.11	2.99E-05	8946	-0.12	9.85E-03
8485	0.11	1.06E-04	8733	-0.16	1.62E-07	8952	0.10	1.81E-03
8488	0.09	5.47E-05	8735	0.12	3.68E-06	8954	0.18	4.12E-12
8489	-0.16	3.97E-06	8740	0.11	2.28E-07	8959	-0.20	7.46E-08
8508	-0.11	1.87E-05	8744	-0.21	2.38E-11	8960	-0.13	2.32E-06
8512	-0.15	5.28E-03	8745	-0.14	2.60E-06	8963	-0.12	4.69E-03
8515	0.08	2.78E-03	8747	0.10	1.31E-04	8965	-0.09	9.19E-04
8520	-0.13	7.74E-03	8749	0.10	9.91E-04	8966	0.09	2.44E-03
8529	-0.23	7.12E-05	8756	0.14	1.89E-08	8969	-0.09	4.02E-03
8532	-0.14	1.64E-05	8757	-0.19	1.06E-11	8970	-0.10	8.36E-05
8537	-0.07	5.22E-03	8761	0.10	9.19E-04	8971	0.07	1.25E-03
8540	0.10	2.93E-04	8764	-0.27	1.23E-05	8977	0.12	3.23E-05
8541	0.13	1.13E-03	8767	-0.14	2.26E-05	8980	-0.09	1.37E-03
8547	-0.20	6.16E-04	8773	-0.18	7.44E-11	8981	-0.16	2.93E-08
8550	-0.14	5.19E-07	8784	-0.18	6.91E-03	8985	-0.27	3.44E-04
8559	0.19	7.29E-15	8785	-0.24	2.90E-04	8987	-0.11	4.07E-05
8560	0.12	2.56E-06	8789	-0.20	9.41E-04	8996	0.09	2.28E-03
8563	0.09	7.04E-03	8792	-0.27	2.47E-07	8997	0.10	3.64E-04
8576	-0.15	1.09E-06	8793	0.09	2.24E-03	9002	0.11	6.31E-04
8577	0.08	1.56E-03	8796	0.24	6.93E-04	9003	0.12	2.90E-06
8578	0.16	2.93E-04	8800	0.14	2.05E-04	9005	0.08	8.48E-03
8580	-0.15	4.42E-05	8801	-0.13	1.43E-03	9010	-0.10	1.05E-04
8585	0.16	7.06E-04	8805	-0.17	5.79E-10	9011	0.15	3.68E-09
8589	-0.22	1.70E-09	8810	-0.11	8.76E-06	9013	-0.09	2.04E-03
8592	-0.16	1.90E-05	8818	-0.19	3.32E-03	9027	-0.13	5.22E-06
8593	-0.13	9.69E-06	8820	-0.08	3.83E-03	9040	-0.11	2.88E-05
8596	-0.16	4.98E-06	8822	-0.07	9.45E-03	9043	-0.22	1.25E-05
8598	-0.08	6.99E-03	8824	-0.23	1.45E-07	9046	-0.14	8.73E-05
8600	0.07	8.70E-03	8832	-0.11	5.81E-03	9050	-0.17	3.29E-06
8601	-0.08	3.54E-03	8834	0.11	7.97E-04	9055	-0.12	1.05E-04

8607	-0.09	3.57E-04	8839	-0.34	6.35E-13	9070	0.16	6.55E-04
8613	-0.11	2.87E-04	8841	-0.14	2.32E-05	9072	0.08	3.36E-03
8616	-0.14	6.22E-07	8846	-0.12	1.74E-03	9074	0.14	6.58E-06
8627	-0.11	4.26E-04	8848	-0.20	7.50E-12	9077	0.15	3.62E-06
8642	-0.16	2.79E-03	8849	-0.31	2.60E-09	9081	0.10	2.57E-04
8645	0.09	7.10E-04	8854	-0.20	6.55E-05	9084	-0.12	4.81E-04
8647	-0.15	1.13E-06	8855	-0.13	2.26E-06	9087	-0.10	3.62E-05
8648	-0.12	9.03E-04	8857	0.08	2.47E-03	9089	-0.12	6.17E-05
8650	-0.19	6.25E-06	8859	-0.08	8.13E-03	9093	0.14	6.51E-06
8654	0.12	4.89E-05	8860	-0.23	1.67E-03	9094	0.16	2.65E-06
8659	-0.13	4.03E-04	8861	-0.13	2.68E-06	9095	-0.17	8.22E-03
8662	-0.22	4.96E-03	8864	-0.17	2.50E-03	9096	-0.07	8.69E-03
9858	-0.13	1.87E-07	10107	-0.13	2.94E-06	10363	0.10	2.75E-04
9859	-0.17	5.35E-10	10114	0.12	1.14E-03	10368	0.11	1.02E-03
9860	-0.11	2.64E-03	10117	-0.14	1.44E-07	10370	0.12	2.14E-06
9866	-0.09	7.06E-04	10119	-0.10	2.94E-04	10374	-0.13	3.38E-07
9867	-0.11	2.33E-04	10120	0.17	5.58E-04	10375	-0.13	7.71E-05
9868	-0.23	2.00E-12	10124	-0.13	8.07E-07	10383	-0.16	9.99E-04
9869	-0.14	1.61E-04	10127	-0.10	5.98E-03	10386	-0.12	4.31E-06
9870	0.10	1.82E-04	10132	0.09	2.55E-03	10393	-0.09	8.95E-03
9874	-0.14	4.81E-07	10134	-0.22	7.32E-04	10402	-0.10	5.78E-05
9876	0.12	2.28E-06	10138	-0.24	2.60E-04	10404	-0.07	7.48E-03
9879	0.11	1.57E-05	10139	-0.20	3.66E-14	10408	-0.10	6.81E-04
9889	0.09	7.83E-03	10140	0.15	3.19E-05	10421	0.13	8.67E-04
9891	0.10	2.11E-04	10148	-0.11	2.38E-05	10422	0.10	5.80E-03
9904	-0.10	1.61E-03	10157	-0.18	4.76E-12	10425	0.08	9.22E-04
9908	0.14	3.31E-08	10158	0.09	7.43E-03	10427	-0.14	1.98E-03
9913	-0.17	2.16E-09	10160	0.18	3.13E-13	10438	0.19	6.28E-15
9914	-0.16	7.71E-03	10161	-0.17	4.13E-05	10441	0.10	1.10E-04
9917	-0.11	1.04E-03	10162	-0.13	4.03E-06	10444	-0.32	1.19E-23
9919	0.16	4.42E-09	10173	-0.11	1.80E-03	10454	0.13	3.23E-08
9921	0.10	4.23E-03	10174	0.10	2.90E-05	10456	-0.13	3.62E-04
9922	-0.17	4.22E-08	10175	0.10	2.72E-05	10457	0.05	7.19E-03
9927	0.21	1.35E-10	10176	0.11	1.83E-05	10462	0.13	3.05E-06
9928	0.15	3.41E-05	10177	0.12	6.55E-06	10464	0.08	9.18E-03
9936	0.07	2.13E-03	10182	0.12	2.37E-04	10474	-0.13	6.86E-05
9946	0.17	1.05E-09	10183	-0.18	4.29E-03	10480	-0.21	9.55E-12

9952	0.13	3.54E-05	10187	-0.09	9.08E-05	10481	0.09	9.45E-04
9953	0.08	6.34E-03	10193	-0.08	5.40E-03	10483	0.16	2.11E-03
9957	-0.17	7.82E-08	10194	-0.10	3.78E-04	10487	-0.13	1.13E-04
9959	0.17	1.45E-11	10198	0.09	1.80E-03	10488	0.09	1.35E-03
9960	-0.13	6.33E-03	10199	0.23	1.10E-19	10490	-0.17	2.27E-09
9961	0.10	1.08E-04	10200	0.15	9.66E-09	10492	0.13	1.83E-05
9964	0.10	2.45E-04	10203	-0.08	5.51E-03	10493	-0.16	3.61E-03
9982	-0.16	4.56E-10	10229	0.08	4.80E-03	10494	0.15	1.11E-11
9993	-0.09	1.48E-06	10231	0.15	2.99E-06	10498	-0.11	6.97E-03
9995	0.20	4.67E-15	10248	0.12	5.00E-05	10507	-0.08	2.51E-03
9998	0.08	1.06E-03	10258	-0.16	4.97E-06	10515	-0.22	1.18E-04
10002	-0.10	1.61E-03	10265	-0.15	1.19E-03	10516	-0.08	9.72E-03
10003	-0.13	9.32E-07	10272	0.09	3.53E-03	10520	-0.27	6.99E-07
10006	-0.14	9.21E-08	10274	-0.22	5.73E-09	10537	-0.09	3.02E-03
10011	-0.18	1.95E-11	10280	0.14	6.46E-07	10539	0.09	4.40E-04
10021	-0.08	8.23E-03	10283	-0.16	4.91E-06	10543	-0.15	6.09E-05
10026	-0.12	1.07E-05	10286	-0.13	9.56E-06	10548	0.10	1.94E-04
10031	-0.13	2.01E-03	10288	0.15	3.05E-05	10550	-0.08	6.04E-03
10035	0.09	6.05E-04	10290	0.11	6.79E-05	10561	-0.14	2.28E-04
10036	-0.12	1.25E-05	10291	-0.17	3.02E-10	10569	0.11	2.77E-05
10041	0.22	3.15E-07	10292	-0.13	1.91E-03	10570	-0.13	8.35E-06
10053	-0.21	3.71E-05	10296	0.07	7.68E-03	10572	-0.09	4.95E-03
10056	0.13	1.81E-04	10299	0.18	1.83E-08	10576	-0.09	6.89E-04
10061	0.16	7.10E-04	10300	-0.11	2.02E-04	10577	-0.17	8.12E-05
10062	-0.16	1.66E-10	10302	0.14	2.08E-08	10578	-0.14	7.56E-07
10066	-0.08	1.04E-03	10304	-0.13	7.62E-06	10582	0.06	1.29E-03
10067	0.06	5.91E-04	10305	-0.11	2.17E-05	10584	-0.19	1.96E-11
10074	-0.15	1.39E-04	10313	-0.07	4.34E-03	10588	0.11	5.58E-05
10076	-0.08	1.34E-03	10314	0.19	1.05E-05	10590	-0.09	4.57E-04
10077	-0.11	7.64E-08	10315	-0.14	1.63E-04	10599	-0.15	5.59E-05
10079	0.16	5.23E-06	10317	-0.09	4.27E-03	10601	-0.10	9.08E-04
10080	-0.09	5.25E-03	10324	-0.11	7.65E-06	10604	-0.22	2.46E-11
10084	0.16	2.18E-07	10327	-0.13	3.65E-04	10605	-0.09	5.23E-03
10092	-0.24	4.64E-18	10329	-0.08	6.81E-03	10608	-0.20	4.97E-12
10095	0.06	1.97E-03	10341	-0.11	2.67E-04	10612	-0.18	2.91E-05
10102	0.14	8.28E-06	10353	0.13	1.10E-03	10622	-0.22	9.56E-05
10103	-0.11	7.92E-05	10355	0.07	6.94E-03	10624	-0.08	7.26E-03

10104	-0.07	5.88E-03	10358	-0.14	1.33E-04	10625	0.09	2.21E-03
10105	-0.07	6.16E-03	10362	-0.10	5.42E-04	10633	-0.10	1.48E-03
11684	0.11	4.31E-04	12130	-0.18	6.37E-03	12411	0.11	3.86E-03
11685	-0.14	5.05E-06	12132	0.16	1.98E-09	12415	0.19	1.04E-03
11692	-0.29	8.33E-08	12141	-0.05	8.74E-03	12433	0.08	1.54E-03
11701	-0.18	2.53E-08	12153	-0.13	3.19E-05	12443	0.14	1.90E-06
11714	-0.13	4.51E-05	12154	-0.12	6.05E-06	12444	-0.19	2.17E-04
11717	-0.08	1.87E-03	12156	-0.08	3.11E-03	12458	0.07	4.21E-03
11719	-0.16	3.61E-07	12162	-0.14	7.76E-08	12462	0.10	9.17E-05
11722	-0.14	2.24E-08	12166	-0.22	7.73E-10	12463	-0.06	9.83E-03
11728	-0.14	5.10E-04	12168	0.10	4.46E-04	12465	-0.15	3.29E-03
11733	-0.18	1.95E-03	12170	-0.12	2.71E-04	12466	-0.13	2.35E-04
11742	0.17	1.50E-04	12174	-0.18	7.49E-12	12469	-0.19	1.70E-07
11754	-0.12	5.30E-04	12175	0.12	2.57E-06	12477	-0.15	4.12E-04
11756	0.07	4.52E-03	12177	0.10	3.24E-03	12482	-0.21	1.63E-07
11758	-0.13	1.41E-03	12186	0.16	4.92E-11	12491	0.07	3.83E-03
11765	0.13	5.54E-04	12187	-0.08	3.32E-03	12498	0.13	1.89E-07
11771	0.12	2.94E-06	12190	-0.11	2.63E-04	12509	-0.18	2.65E-05
11788	-0.18	7.46E-05	12193	-0.08	4.93E-03	12518	0.14	2.87E-08
11818	-0.14	1.28E-03	12194	-0.15	4.91E-04	12519	-0.09	5.53E-03
11825	0.14	3.84E-08	12200	0.14	2.10E-07	12521	0.12	1.15E-06
11839	-0.08	7.26E-03	12207	-0.12	2.79E-03	12522	-0.12	2.35E-06
11847	0.11	1.09E-04	12208	0.09	4.34E-04	12524	0.10	9.62E-05
11848	0.12	6.52E-03	12214	0.16	4.75E-07	12528	-0.12	1.03E-03
11863	-0.08	8.51E-04	12215	-0.22	4.01E-07	12529	0.14	5.51E-08
11866	-0.07	7.64E-03	12224	-0.11	3.85E-03	12531	-0.07	6.89E-03
11875	-0.21	2.77E-06	12228	-0.29	1.11E-07	12536	-0.15	1.41E-07
11887	-0.14	3.81E-07	12230	0.15	3.37E-04	12544	0.11	3.39E-04
11888	-0.19	3.30E-06	12232	0.11	1.10E-05	12545	-0.24	1.26E-03
11890	-0.15	6.95E-09	12235	-0.17	2.61E-04	12546	0.09	8.23E-04
11897	0.12	1.97E-05	12240	0.11	1.06E-04	12547	-0.11	5.10E-05
11898	-0.14	2.86E-06	12241	-0.22	9.64E-06	12549	0.10	4.97E-03
11900	-0.21	8.15E-08	12242	-0.08	8.51E-04	12561	-0.19	4.26E-03
11901	0.10	4.48E-05	12253	-0.09	1.04E-03	12565	0.12	4.42E-03
11902	-0.14	4.74E-03	12261	-0.08	3.41E-03	12577	-0.15	1.45E-08
11903	0.10	3.10E-03	12275	0.10	8.32E-04	12583	-0.15	1.53E-04
11909	0.09	2.03E-03	12281	-0.17	6.02E-03	12584	-0.12	5.00E-04
11918	0.07	7.81E-03	12284	0.16	1.64E-09	12590	-0.15	3.28E-03

11929	0.08	5.58E-05	12286	0.21	4.76E-08	12591	-0.14	7.62E-07
11936	-0.08	9.77E-04	12288	0.11	4.25E-05	12592	0.10	1.57E-03
11940	-0.10	1.04E-03	12291	0.23	2.35E-21	12597	-0.15	3.61E-08
11947	-0.09	9.00E-04	12292	0.12	8.43E-07	12598	-0.22	2.09E-10
11959	0.10	3.39E-03	12293	-0.25	4.91E-11	12599	0.07	4.91E-03
11961	-0.14	5.60E-08	12294	-0.15	5.36E-04	12604	-0.14	6.51E-03
11963	0.09	8.25E-04	12295	-0.08	9.90E-03	12605	-0.07	6.80E-03
11972	-0.19	4.00E-03	12305	0.07	8.28E-03	12606	-0.14	1.79E-05
11976	-0.16	1.64E-05	12310	0.18	4.05E-05	12610	-0.21	3.65E-04
11977	-0.09	4.04E-04	12317	0.12	2.17E-06	12613	-0.27	1.22E-17
12000	-0.15	2.31E-08	12322	0.13	1.73E-08	12620	0.08	8.37E-03
12010	0.09	3.24E-03	12326	-0.10	2.90E-04	12625	0.15	4.88E-09
12012	-0.13	2.04E-03	12329	0.08	8.49E-03	12627	-0.15	6.34E-03
12022	-0.30	1.60E-10	12336	0.11	2.23E-05	12630	0.13	1.16E-04
12030	-0.08	1.07E-03	12343	-0.21	7.04E-05	12636	-0.08	9.81E-03
12032	0.16	4.31E-08	12344	0.15	1.27E-08	12642	0.07	7.79E-03
12039	0.10	2.42E-04	12353	0.09	5.25E-04	12644	-0.17	1.12E-07
12045	-0.16	1.09E-03	12356	-0.17	8.59E-07	12655	-0.14	3.63E-07
12060	0.10	6.39E-03	12358	-0.16	1.60E-09	12656	-0.20	1.56E-10
12063	0.09	2.10E-03	12365	-0.13	6.13E-07	12657	0.11	1.39E-04
12065	-0.13	1.94E-03	12368	0.09	1.97E-04	12668	-0.26	5.61E-17
12067	-0.17	3.62E-05	12376	0.18	2.86E-10	12673	-0.14	3.60E-06
12073	-0.16	9.21E-05	12381	-0.16	1.27E-06	12675	-0.15	2.89E-07
12076	0.10	7.29E-05	12393	0.10	9.32E-05	12676	-0.09	8.79E-03
12090	0.12	3.70E-06	12400	-0.07	6.79E-03	12682	0.10	3.81E-03
12091	0.13	1.42E-03	12401	-0.07	6.62E-03	12683	-0.19	7.79E-13
12095	-0.10	4.76E-04	12408	-0.16	7.29E-03	12689	0.10	6.47E-03
12118	-0.16	1.26E-03	12409	0.16	4.22E-10	12692	0.12	2.01E-04
13917	-0.12	5.04E-05	14340	-0.18	7.36E-03	14800	-0.13	6.55E-06
13927	0.12	9.24E-05	14364	-0.07	5.12E-03	14806	-0.27	2.24E-07
13934	-0.12	5.84E-06	14377	0.08	3.76E-03	14808	0.07	9.45E-03
13935	0.08	2.64E-03	14380	0.15	4.03E-08	14817	-0.25	1.03E-10
13937	0.18	3.38E-03	14381	-0.21	1.67E-07	14818	-0.07	7.73E-03
13949	-0.19	1.81E-07	14390	0.17	2.78E-07	14828	0.09	6.81E-04
13955	0.09	4.20E-03	14391	-0.16	8.61E-10	14838	-0.16	9.30E-03
13971	0.13	3.68E-05	14397	0.13	1.50E-05	14839	-0.17	2.45E-09
13982	-0.07	6.94E-03	14399	0.08	1.35E-03	14844	0.14	3.35E-03

13984	-0.16	2.29E-09	14406	-0.18	2.24E-05	14861	0.12	2.23E-03
13998	0.25	5.07E-15	14407	-0.08	9.70E-03	14886	0.12	1.96E-06
14007	-0.05	7.80E-03	14411	-0.10	7.07E-05	14899	0.09	7.09E-03
14009	-0.10	4.29E-04	14414	0.09	1.30E-06	14904	0.10	1.12E-04
14010	-0.11	2.42E-05	14424	-0.13	2.07E-03	14915	0.12	3.55E-07
14038	-0.07	7.61E-03	14430	0.14	3.99E-08	14925	0.07	3.57E-03
14049	0.08	1.52E-03	14441	0.11	4.57E-06	14937	0.11	6.46E-06
14050	0.10	6.91E-04	14448	-0.20	4.46E-09	14938	0.16	1.94E-03
14052	-0.15	8.45E-08	14451	0.15	2.28E-06	14966	-0.18	1.10E-11
14057	-0.08	1.67E-03	14454	0.15	8.36E-05	14971	-0.16	4.92E-04
14071	-0.18	1.78E-11	14460	0.09	4.64E-04	14972	0.10	9.36E-05
14079	0.21	3.26E-16	14476	0.17	1.88E-07	14973	0.10	1.53E-04
14081	-0.20	9.14E-08	14478	-0.11	3.35E-04	14974	-0.20	5.14E-10
14083	-0.15	1.14E-03	14479	-0.11	1.08E-04	14983	-0.15	5.64E-03
14086	-0.07	3.36E-03	14484	0.12	2.03E-06	14989	-0.15	4.35E-03
14088	0.12	4.70E-06	14498	-0.17	2.35E-06	14999	-0.33	1.52E-05
14106	0.08	1.61E-04	14502	-0.15	1.43E-03	15003	-0.09	1.11E-03
14113	0.15	3.09E-07	14504	-0.23	1.54E-05	15008	-0.15	2.54E-05
14131	-0.09	6.60E-04	14506	0.07	8.14E-03	15012	-0.37	1.47E-04
14135	0.15	1.64E-03	14507	0.11	3.19E-05	15026	-0.07	7.61E-03
14144	0.07	6.43E-03	14509	0.08	3.72E-03	15033	-0.13	3.15E-03
14153	-0.09	9.18E-03	14523	0.13	1.81E-07	15042	-0.15	1.24E-04
14170	0.10	9.21E-05	14524	-0.21	5.10E-07	15047	-0.09	4.03E-03
14182	0.10	7.32E-04	14525	-0.26	1.07E-04	15050	-0.09	4.44E-03
14187	-0.17	8.13E-03	14533	-0.14	3.87E-06	15060	-0.16	3.50E-09
14189	0.15	7.34E-05	14539	-0.12	1.48E-03	15062	-0.24	4.14E-04
14191	-0.13	5.84E-05	14544	0.09	3.89E-03	15077	0.07	8.36E-03
14194	-0.24	2.16E-07	14547	0.12	8.94E-03	15086	-0.18	2.19E-11
14195	-0.18	8.75E-08	14555	0.08	1.62E-03	15103	-0.11	2.53E-03
14197	-0.25	2.20E-07	14560	-0.15	9.81E-05	15104	0.10	3.01E-04
14206	0.13	1.51E-04	14582	0.14	2.45E-08	15110	-0.12	3.18E-05
14213	0.10	6.42E-04	14583	0.12	8.17E-03	15128	0.13	2.43E-07
14222	-0.14	2.43E-03	14602	-0.07	1.32E-03	15131	-0.12	7.38E-06
14227	-0.08	2.43E-03	14612	-0.16	8.17E-10	15150	0.13	1.53E-04
14237	-0.21	7.39E-09	14616	-0.18	1.17E-04	15162	-0.07	6.26E-03
14244	-0.19	3.99E-15	14623	0.12	1.37E-05	15164	0.08	1.23E-03
14246	-0.09	8.02E-04	14625	-0.13	3.96E-05	15168	-0.08	6.67E-03
14259	-0.16	3.17E-03	14626	-0.09	3.05E-04	15172	0.07	5.16E-03

14269	0.10	6.43E-03	14628	-0.10	4.65E-06	15184	-0.17	2.77E-09
14273	-0.13	6.59E-06	14631	-0.08	8.06E-04	15188	-0.09	4.33E-03
14279	0.07	8.98E-03	14651	0.12	3.32E-06	15206	0.08	3.49E-03
14284	-0.16	8.57E-04	14661	-0.11	8.58E-05	15209	-0.14	2.43E-07
14294	-0.16	9.42E-03	14668	-0.16	9.88E-05	15211	-0.14	6.75E-06
14296	-0.19	1.41E-12	14695	-0.19	5.70E-12	15238	-0.13	2.22E-05
14298	0.12	5.56E-04	14700	-0.19	1.89E-13	15239	0.13	5.19E-06
14301	0.11	9.19E-07	14704	0.11	8.33E-03	15241	0.09	7.26E-04
14304	-0.08	4.15E-03	14705	-0.15	1.03E-05	15243	-0.18	2.87E-05
14306	0.08	7.44E-03	14734	-0.11	2.06E-04	15244	-0.22	1.58E-05
14307	0.11	1.04E-05	14738	-0.23	2.23E-05	15245	0.11	5.84E-05
14309	0.07	4.81E-03	14739	0.13	5.13E-07	15252	0.10	1.90E-04
14311	-0.08	1.04E-03	14773	-0.11	3.64E-04	15260	-0.21	4.22E-11
14313	0.15	1.23E-08	14777	-0.09	2.62E-03	15291	0.17	1.68E-08

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TABLE 22 - GENETIC MARKERS FOR BODY DEPTH

A	B	C	A	B	C	A	B	C
1	-0.10	5.81E-04	356	-0.20	1.75E-03	781	-0.10	8.95E-03
3	-0.10	1.63E-06	361	-0.20	3.06E-05	806	-0.10	1.90E-04
8	-0.10	5.99E-04	367	-0.20	1.51E-09	812	-0.10	1.05E-05
13	-0.10	8.76E-04	369	-0.10	8.36E-03	821	-0.10	2.29E-03
16	0.10	2.42E-04	370	-0.10	1.29E-03	837	0.10	6.46E-03
43	-0.20	9.89E-09	380	-0.10	6.34E-04	840	0.10	4.24E-04
51	0.10	1.32E-04	382	0.10	4.60E-06	843	-0.20	7.64E-05
54	-0.10	7.13E-03	383	0.20	5.39E-03	844	-0.10	6.00E-03
57	0.10	7.40E-08	386	-0.20	2.15E-03	847	-0.10	8.73E-05
66	0.10	2.21E-08	394	-0.10	1.66E-03	850	-0.10	7.52E-05
82	0.20	7.78E-05	410	-0.10	9.02E-05	856	-0.10	6.80E-04
93	-0.10	7.37E-08	411	-0.10	7.16E-05	867	-0.10	3.70E-03
97	0.10	3.96E-05	420	-0.10	3.68E-04	869	-0.10	2.87E-05
101	0.10	2.13E-05	423	-0.10	5.61E-04	874	-0.20	7.13E-03
106	-0.10	7.73E-03	425	0.20	1.03E-08	875	-0.10	1.07E-04
111	-0.10	3.84E-03	428	-0.10	3.44E-04	882	-0.10	6.88E-05
130	-0.10	1.70E-03	436	-0.10	2.25E-03	883	-0.10	3.11E-03
131	0.10	1.60E-03	440	0.10	3.40E-05	889	0.10	4.84E-03
135	0.10	3.17E-03	457	-0.10	8.61E-03	893	0.10	4.87E-03
138	0.10	8.90E-06	463	-0.10	5.26E-03	915	-0.10	4.56E-05
145	-0.10	4.23E-04	465	0.20	1.21E-04	932	-0.10	1.52E-04
150	-0.20	4.97E-13	479	-0.20	5.13E-03	936	-0.10	6.00E-03
152	0.20	3.66E-06	497	0.10	2.78E-04	940	-0.10	8.69E-03
157	-0.10	1.98E-06	498	-0.10	7.95E-04	944	0.10	4.67E-03
162	0.20	4.29E-05	505	0.10	3.55E-05	948	-0.20	1.68E-11
168	-0.10	1.04E-03	509	0.10	7.32E-04	949	0.10	1.11E-03
176	0.10	1.18E-04	516	0.20	5.56E-04	954	-0.10	1.22E-06
177	0.10	5.89E-04	523	0.10	2.29E-03	961	-0.30	1.56E-05
179	-0.10	8.16E-03	528	-0.10	3.72E-03	977	-0.10	1.25E-04
191	-0.10	9.82E-03	535	-0.10	4.81E-04	979	-0.10	6.63E-03
192	0.10	8.04E-03	536	-0.10	6.52E-04	982	-0.10	3.41E-04
193	-0.10	7.66E-03	545	-0.20	2.32E-05	992	-0.10	1.91E-03
198	-0.10	8.18E-04	548	0.10	1.58E-03	999	0.10	3.44E-03
205	0.10	2.72E-03	557	-0.10	3.38E-03	1008	0.20	6.41E-03
217	0.10	1.87E-04	570	0.10	9.00E-03	1033	0.10	1.94E-03

222	0.10	1.66E-05	591	0.10	3.12E-05	1035	-0.10	6.91E-04
242	-0.10	9.45E-06	592	-0.10	5.42E-06	1038	0.10	6.53E-03
250	-0.10	1.51E-04	599	0.10	5.20E-04	1044	0.20	1.53E-04
261	-0.10	7.53E-03	617	0.20	1.22E-09	1049	0.10	2.37E-05
264	-0.10	1.42E-03	623	0.10	1.32E-05	1050	0.10	5.76E-03
265	-0.10	8.74E-06	629	0.10	8.75E-03	1056	-0.10	1.12E-03
277	-0.20	5.02E-04	637	-0.10	2.97E-03	1071	0.10	2.06E-04
285	-0.10	3.99E-04	638	0.10	3.02E-05	1078	-0.10	2.70E-03
290	-0.10	4.21E-04	640	-0.10	8.44E-04	1084	-0.10	1.02E-03
298	-0.10	2.52E-03	645	-0.20	3.18E-08	1085	0.10	4.35E-03
300	0.10	7.58E-03	647	-0.10	1.44E-03	1087	0.10	5.07E-06
301	0.10	2.94E-04	653	0.10	1.24E-03	1089	0.10	2.01E-03
303	0.20	5.37E-12	660	-0.20	2.94E-03	1097	0.10	2.73E-04
308	-0.10	5.65E-04	661	0.10	1.54E-04	1107	0.20	6.61E-04
309	0.10	6.74E-06	663	-0.20	6.18E-06	1110	0.10	4.04E-03
314	0.10	1.64E-04	664	-0.10	2.43E-05	1140	-0.10	8.61E-03
315	-0.20	3.80E-07	668	-0.10	8.06E-05	1142	-0.10	9.85E-06
316	-0.10	1.71E-03	674	0.20	2.64E-06	1145	-0.10	5.19E-04
317	0.10	5.57E-06	693	-0.20	1.43E-03	1147	-0.10	1.06E-05
321	-0.10	9.34E-04	700	-0.20	8.19E-03	1149	0.10	1.42E-06
331	-0.10	4.05E-05	705	-0.10	6.75E-05	1152	0.10	1.65E-03
333	0.10	1.71E-03	718	0.20	1.17E-09	1156	0.10	5.69E-03
335	-0.10	9.66E-03	723	-0.10	1.11E-05	1165	0.10	1.99E-04
347	-0.10	7.90E-05	726	-0.10	1.09E-06	1167	0.10	2.90E-06
349	-0.10	1.05E-04	730	0.10	1.12E-03	1173	0.10	6.29E-03
354	0.10	8.77E-03	735	-0.10	1.36E-03	1176	-0.20	1.08E-09
366								
2307	0.10	4.41E-04	736	0.10	1.49E-06	1178	0.10	3.04E-03
2312	-0.20	3.41E-04	764	-0.10	3.09E-05	1185	0.10	2.21E-05
2318	0.10	4.39E-03	766	-0.10	4.07E-03	1193	-0.20	3.00E-08
2322	-0.10	8.15E-05	2692	-0.10	1.53E-03	3166	-0.10	6.33E-04
2323	-0.10	2.00E-03	2696	0.10	8.63E-04	3167	0.10	2.12E-06
2331	0.10	6.18E-05	2701	-0.10	8.89E-04	3176	-0.10	3.26E-03
2337	-0.20	5.49E-03	2705	-0.10	1.57E-03	3182	0.20	4.53E-10
2338	-0.10	3.59E-03	2706	-0.10	1.28E-04	3217	-0.10	1.32E-03
2341	-0.20	9.12E-08	2712	-0.10	3.97E-05	3234	0.10	2.71E-07
2343	0.10	3.52E-06	2713	0.10	3.23E-04	3248	0.10	7.65E-04
2344	0.10	2.56E-03	2722	0.10	3.12E-03	3275	-0.20	7.66E-06

2346	-0.10	6.52E-03	2726	-0.10	1.59E-04	3283	-0.10	2.61E-03
2355	-0.10	3.53E-04	2727	0.10	6.18E-04	3288	-0.10	2.52E-04
2357	0.20	4.74E-06	2738	-0.10	1.68E-03	3302	-0.20	3.70E-07
2371	0.10	2.17E-03	2739	-0.10	3.31E-03	3303	-0.20	3.44E-07
2380	-0.20	2.36E-05	2740	-0.10	8.95E-04	3309	-0.30	6.50E-05
2390	0.10	2.88E-03	2769	0.10	3.22E-03	3313	-0.10	8.05E-03
2398	0.10	6.53E-04	2772	0.10	2.34E-03	3317	-0.10	9.06E-05
2401	-0.10	9.96E-05	2787	0.10	3.02E-03	3318	-0.20	5.08E-09
2404	-0.10	1.10E-05	2790	0.10	3.63E-03	3321	0.20	2.65E-10
2409	-0.10	5.06E-04	2791	-0.10	4.44E-03	3328	0.10	1.33E-03
2419	-0.10	8.25E-04	2792	-0.10	1.09E-05	3333	0.20	3.49E-11
2421	-0.10	2.41E-05	2795	-0.10	3.67E-06	3338	-0.10	2.59E-03
2425	0.20	1.47E-09	2817	0.20	1.24E-06	3353	0.10	2.63E-05
2426	0.20	5.46E-10	2824	0.10	2.34E-03	3357	-0.10	4.99E-06
2428	-0.10	1.26E-03	2836	0.10	2.59E-03	3360	-0.10	6.01E-04
2429	-0.10	7.59E-04	2838	-0.10	3.92E-05	3369	-0.20	3.98E-06
2438	-0.20	3.16E-03	2843	0.10	8.80E-06	3382	0.10	2.50E-03
2439	-0.10	1.67E-06	2857	-0.10	3.51E-03	3392	-0.10	3.73E-04
2446	-0.10	1.14E-06	2860	0.10	4.06E-03	3394	-0.10	5.71E-03
2447	-0.10	6.97E-05	2866	0.10	4.38E-03	3395	-0.10	1.50E-03
2456	-0.10	3.89E-03	2872	0.20	1.16E-09	3406	-0.10	5.09E-03
2463	-0.20	1.33E-03	2874	-0.10	3.16E-03	3407	0.10	3.68E-03
2465	-0.20	7.02E-11	2890	0.10	3.99E-03	3409	0.10	1.57E-03
2471	0.10	1.06E-03	2907	-0.10	9.19E-03	3411	-0.10	9.90E-06
2473	0.10	2.31E-04	2910	0.10	2.53E-04	3433	-0.20	3.46E-08
2476	-0.10	4.28E-04	2929	-0.10	4.70E-05	3438	-0.10	3.90E-06
2489	-0.10	2.68E-04	2944	-0.20	6.42E-12	3439	-0.10	3.38E-03
2499	0.10	2.43E-03	2950	-0.10	3.75E-05	3451	0.10	3.03E-03
2505	0.10	7.52E-04	2960	-0.20	4.73E-07	3463	-0.10	1.51E-04
2506	-0.10	5.99E-03	2970	0.10	1.42E-05	3466	-0.10	1.09E-03
2511	-0.10	6.25E-03	2973	0.10	5.93E-05	3467	-0.10	3.88E-03
2537	0.10	4.90E-03	2980	-0.20	1.61E-03	3487	-0.20	2.61E-09
2542	0.20	8.36E-04	2996	0.10	6.73E-04	3489	-0.10	2.88E-03
2544	-0.10	1.59E-04	3000	0.10	5.39E-03	3491	-0.10	1.25E-04
2550	0.20	1.07E-05	3004	-0.10	7.54E-03	3493	0.10	2.41E-05
2559	0.30	3.07E-04	3006	-0.10	9.91E-03	3497	-0.10	3.12E-03
2564	0.10	4.46E-03	3018	0.10	9.26E-03	3498	-0.10	7.83E-04
2583	0.10	1.16E-03	3028	-0.10	5.59E-04	3500	-0.10	8.53E-04

2587	0.10	6.79E-04	3037	0.10	1.16E-04	3506	0.10	5.34E-04
2594	0.10	4.13E-04	3068	-0.10	1.30E-05	3510	0.10	3.81E-06
2596	-0.20	3.61E-07	3082	-0.10	4.24E-03	3521	0.10	6.56E-04
2604	0.10	1.96E-03	3084	-0.10	6.31E-04	3523	-0.10	5.01E-03
2607	0.10	1.93E-03	3089	-0.10	2.31E-05	3529	0.10	8.08E-03
2614	-0.20	4.88E-06	3113	-0.20	8.09E-07	3539	0.10	7.75E-03
2615	-0.20	1.50E-09	3115	-0.20	2.68E-09	3541	-0.10	1.22E-07
2624	0.10	1.14E-03	3117	0.10	9.28E-03	3550	-0.10	6.17E-04
2640	0.10	2.13E-04	3120	-0.10	6.87E-03	3557	-0.10	7.62E-03
2642	-0.10	1.52E-03	3125	0.10	4.02E-04	3558	0.10	3.67E-03
2646	-0.10	7.12E-03	3127	0.10	2.92E-03	3570	0.20	1.22E-03
2648	-0.10	8.81E-04	3130	-0.20	3.54E-03	3583	-0.10	3.26E-03
2654	-0.20	5.41E-04	3131	-0.10	1.52E-07	3590	-0.20	1.87E-09
2673	-0.20	4.35E-08	3133	-0.10	1.08E-04	3597	-0.20	7.47E-03
367								
2677	-0.20	3.31E-06	3143	-0.10	8.53E-03	3604	-0.10	3.78E-03
4831	0.10	1.54E-03	3149	-0.10	5.72E-03	3608	-0.10	1.55E-03
4832	-0.10	2.00E-03	3150	0.10	6.06E-03	3619	0.10	4.50E-03
4834	-0.20	6.23E-05	3158	0.10	2.51E-05	3621	-0.10	8.76E-03
4854	0.20	4.88E-08	5220	-0.10	6.54E-05	5584	-0.10	9.30E-03
4856	-0.10	7.19E-07	5230	-0.10	5.82E-03	5589	-0.20	2.99E-03
4857	-0.10	2.34E-03	5258	0.20	8.27E-03	5593	0.10	7.44E-05
4858	-0.10	5.99E-03	5272	-0.10	1.66E-03	5609	-0.10	2.46E-03
4864	0.10	6.81E-04	5275	-0.10	1.23E-03	5610	-0.10	7.75E-03
4871	-0.10	3.07E-04	5279	0.10	8.17E-08	5613	0.10	9.90E-03
4878	-0.10	1.01E-04	5283	-0.10	9.97E-05	5616	0.10	3.16E-03
4880	0.20	3.75E-03	5294	0.10	9.55E-03	5617	-0.10	4.40E-03
4882	0.20	1.55E-08	5295	0.10	8.25E-04	5632	-0.10	1.72E-03
4886	-0.20	2.04E-03	5306	-0.10	1.50E-04	5634	0.20	9.43E-10
4890	0.20	1.31E-03	5308	0.10	6.17E-05	5635	0.20	8.06E-10
4893	-0.10	1.45E-05	5315	-0.20	1.70E-08	5638	0.20	1.39E-04
4901	0.10	1.54E-07	5320	-0.20	4.28E-08	5646	-0.10	3.95E-03
4909	-0.10	5.76E-05	5322	0.30	6.24E-06	5663	-0.10	1.83E-03
4911	0.10	6.61E-03	5323	0.20	2.18E-15	5674	-0.10	8.25E-05
4917	-0.10	4.87E-04	5326	0.10	8.29E-03	5677	-0.10	1.71E-05
4927	0.10	8.56E-05	5333	-0.10	1.22E-05	5678	-0.10	6.00E-06
4932	-0.20	3.99E-03	5334	-0.10	1.32E-05	5687	-0.10	3.60E-04
4936	0.20	1.09E-07	5336	0.10	9.57E-04	5691	-0.10	3.49E-04

4938	0.10	7.51E-05
4942	-0.10	1.71E-03
4943	-0.10	4.31E-03
4946	-0.10	2.28E-03
4952	-0.10	3.16E-06
4961	-0.20	3.06E-04
4964	0.10	8.35E-04
4966	-0.10	8.57E-04
4973	0.10	2.42E-03
4978	0.30	2.25E-04
4982	-0.20	3.88E-08
5000	0.10	1.90E-05
5003	-0.10	1.41E-03
5015	0.10	3.19E-03
5028	-0.10	2.09E-03
5037	0.10	6.47E-05
5044	0.20	5.81E-06
5046	-0.10	1.72E-05
5053	0.10	7.33E-03
5066	-0.10	2.63E-03
5069	0.10	5.05E-03
5076	-0.10	1.25E-04
5098	-0.10	1.72E-04
5101	-0.10	7.98E-06
5115	-0.20	3.47E-12
5121	-0.10	2.65E-03
5135	-0.10	1.26E-08
5141	0.20	1.47E-06
5145	-0.10	3.68E-05
5149	0.10	2.32E-03
5151	0.20	1.22E-03
5161	0.10	2.61E-03
5162	0.10	3.83E-05
5166	-0.10	3.93E-03
5168	0.10	1.60E-03
5169	-0.10	5.61E-03
5178	-0.20	1.66E-06
5197	0.10	4.47E-03

5343	0.10	2.11E-03
5347	0.20	1.82E-04
5352	0.10	1.08E-03
5356	-0.10	6.36E-04
5363	-0.10	6.52E-04
5365	-0.20	8.28E-04
5367	0.20	3.53E-09
5379	0.10	3.46E-03
5381	-0.10	1.38E-03
5391	-0.10	9.67E-03
5399	0.10	1.58E-05
5401	-0.10	4.80E-03
5411	-0.10	2.18E-03
5417	0.20	7.87E-07
5426	-0.10	1.73E-03
5427	-0.10	2.22E-03
5429	0.10	1.90E-04
5434	0.10	7.53E-03
5436	0.10	3.66E-03
5437	0.10	4.09E-03
5443	-0.10	5.36E-03
5460	0.10	6.80E-03
5461	-0.20	3.02E-05
5462	0.10	1.77E-06
5465	-0.10	2.06E-05
5466	-0.10	6.98E-05
5472	-0.10	9.39E-07
5476	-0.10	1.59E-03
5492	-0.10	4.24E-03
5495	0.20	5.75E-05
5501	-0.10	5.85E-03
5502	-0.10	3.04E-03
5512	-0.10	7.67E-03
5513	-0.10	3.00E-05
5539	-0.10	2.05E-04
5540	-0.10	4.03E-04
5541	-0.20	1.06E-05
5545	-0.20	1.61E-05

5701	0.10	9.04E-03
5705	0.10	7.05E-05
5715	0.10	7.56E-04
5729	-0.10	4.12E-03
5731	0.10	5.65E-03
5739	0.10	6.07E-03
5752	-0.20	5.50E-07
5765	0.10	9.58E-03
5774	0.30	3.07E-04
5775	0.10	1.14E-03
5780	-0.10	9.83E-06
5785	0.20	7.96E-04
5791	0.10	5.09E-05
5808	0.20	2.91E-04
5813	0.10	2.53E-05
5817	0.10	3.74E-03
5821	0.10	7.32E-03
5826	-0.10	9.64E-04
5841	-0.20	2.37E-07
5876	-0.10	8.30E-06
5877	-0.10	5.59E-04
5883	0.10	9.66E-04
5892	-0.10	1.27E-03
5895	-0.20	1.49E-11
5900	0.20	4.37E-03
5908	0.10	4.73E-04
5911	-0.20	5.29E-04
5921	-0.10	3.20E-03
5923	-0.10	2.47E-03
5925	0.10	4.33E-04
5937	-0.10	9.68E-04
5942	0.10	8.15E-03
5951	0.20	2.01E-08
5953	0.10	3.01E-03
5957	-0.10	3.80E-04
5969	-0.10	1.33E-06
5970	-0.10	3.70E-05
5971	-0.10	1.11E-04

5198	0.10	6.41E-04	5548	0.30	1.09E-18	5972	-0.10	9.73E-03
5205	-0.10	4.28E-04	5555	0.20	3.37E-07	5978	-0.10	4.00E-03
368								
5206	0.10	1.93E-03	5557	0.10	3.48E-03	5982	-0.10	7.94E-05
5212	-0.10	2.45E-05	5558	0.10	2.97E-03	5986	-0.10	2.12E-04
8683	0.10	6.50E-04	5567	-0.10	1.04E-04	5990	0.10	6.59E-06
8692	0.20	5.56E-05	5575	-0.10	2.79E-03	5994	0.10	3.70E-03
8693	0.10	1.11E-03	5578	-0.10	6.61E-04	5995	0.10	3.59E-03
8694	0.10	5.22E-04	10160	-0.10	9.21E-03	5996	0.10	3.01E-03
8699	-0.10	7.78E-03	10161	0.20	3.77E-05	5997	0.10	2.42E-03
8703	0.10	5.83E-03	10164	0.10	5.23E-04	5999	-0.10	2.57E-03
8704	0.10	1.12E-04	10174	-0.10	7.76E-05	6008	0.10	3.07E-04
8707	-0.20	3.58E-04	10175	-0.10	1.46E-04	6024	0.20	7.49E-11
8708	-0.20	6.26E-04	10181	-0.30	1.24E-05	6025	0.20	3.44E-04
8720	-0.20	9.25E-12	10187	0.10	2.24E-05	6040	-0.10	7.42E-07
8724	0.10	5.05E-04	10208	-0.10	2.01E-07	6058	-0.20	1.02E-07
8729	0.10	2.92E-03	10227	0.10	1.93E-04	6066	-0.10	8.89E-05
8731	0.10	3.71E-05	10231	-0.10	1.21E-03	6067	0.10	4.54E-03
8735	-0.20	5.45E-12	10240	-0.30	6.66E-07	6068	-0.10	4.11E-04
8736	-0.20	2.26E-03	10246	-0.10	4.18E-03	6070	0.10	3.87E-03
8740	0.10	2.05E-03	10252	0.10	3.93E-04	6077	0.10	4.26E-03
8757	-0.10	1.73E-03	10255	-0.10	7.29E-03	6078	0.10	4.48E-03
8761	-0.10	2.59E-03	10269	0.10	2.70E-03	6087	-0.10	1.05E-03
8763	0.10	3.08E-04	10274	0.10	1.66E-03	6088	-0.10	7.82E-04
8765	0.10	1.66E-04	10275	-0.20	5.99E-04	6104	-0.10	5.57E-04
8771	0.10	6.27E-03	10280	-0.10	1.87E-05	6105	0.10	3.65E-06
8774	0.10	1.98E-03	10287	-0.10	8.72E-03	6110	-0.10	8.20E-03
8776	0.10	1.84E-03	10312	0.10	8.25E-04	6111	0.20	5.44E-09
8781	0.10	3.71E-03	10327	0.20	2.40E-06	6117	0.10	5.29E-04
8794	0.10	5.56E-04	10328	-0.10	2.64E-04	6120	-0.10	3.71E-03
8796	0.20	1.34E-03	10332	-0.10	5.28E-04	6124	-0.10	1.96E-05
8797	-0.10	1.02E-03	10345	-0.10	1.28E-06	6131	0.10	4.28E-03
8799	-0.20	6.22E-06	10347	-0.10	8.14E-03	6143	0.10	8.99E-03
8801	0.20	2.94E-04	10366	0.10	2.17E-03	6144	-0.10	2.87E-03
8804	0.10	8.02E-04	10374	-0.10	1.45E-03	6145	0.10	5.68E-04
8814	0.10	3.18E-05	10375	0.20	3.73E-10	6154	0.10	4.79E-03
8818	0.20	1.42E-03	10391	0.10	6.33E-03	6158	-0.10	1.88E-04
8820	0.10	4.49E-03	10393	-0.10	4.38E-04	6160	0.10	4.38E-03

8821	0.10	1.85E-03	10395	0.10	8.69E-03	6161	-0.10	1.10E-03
8847	0.10	7.01E-05	10397	0.10	5.45E-04	6172	0.10	2.28E-04
8848	0.10	1.80E-03	10399	0.20	1.51E-10	6176	-0.10	7.83E-04
8857	-0.10	2.79E-04	10402	0.10	1.66E-06	6177	0.10	7.88E-03
8859	0.10	1.59E-03	10408	0.10	2.62E-03	6184	-0.20	9.59E-06
8863	0.10	4.93E-03	10410	0.10	8.62E-03	6195	0.10	5.18E-04
8864	-0.20	2.45E-03	10411	0.30	9.41E-06	6197	-0.10	6.03E-04
8867	0.10	8.53E-03	10415	0.10	1.26E-04	6198	-0.10	6.34E-04
8874	0.10	4.54E-03	10422	0.10	2.23E-03	6200	-0.20	5.35E-06
8876	0.10	7.16E-03	10441	-0.20	7.11E-07	6203	0.10	3.62E-05
8877	0.10	2.69E-05	10454	0.10	9.55E-03	6212	-0.10	4.41E-03
8890	-0.10	2.42E-05	10474	0.20	4.58E-10	6219	0.10	8.49E-04
8898	0.10	3.37E-03	10480	-0.10	3.25E-03	6226	-0.10	5.46E-05
8901	-0.10	1.62E-05	10488	-0.10	1.97E-03	6232	0.10	9.88E-06
8902	0.10	4.13E-04	10492	0.10	2.55E-05	6233	0.10	3.06E-05
8903	0.10	4.79E-04	10512	0.10	5.28E-05	6240	-0.10	1.72E-03
8908	0.10	5.14E-03	10513	0.10	8.59E-03	6242	-0.10	1.42E-03
8913	0.10	4.40E-04	10515	-0.20	2.32E-03	6246	0.20	1.39E-07
8921	-0.10	2.21E-04	10537	0.10	4.91E-06	6248	0.10	8.22E-03
8922	0.10	2.24E-04	10538	0.20	2.38E-05	6254	-0.20	5.10E-07
8927	0.20	2.52E-08	10539	0.10	1.92E-05	6280	-0.20	3.88E-09
8931	-0.20	4.42E-03	10543	-0.10	5.67E-05	6281	-0.10	8.96E-03
8948	-0.10	1.65E-06	10552	-0.20	2.89E-10	6291	0.20	5.98E-07
8950	0.10	3.78E-03	10558	0.10	1.65E-04	6296	0.20	5.19E-03
8952	0.20	3.01E-05	10563	0.10	5.90E-03	6303	-0.10	4.03E-03
8958	0.10	1.03E-05	10567	0.10	2.55E-03	6304	-0.10	3.86E-03
8959	0.20	8.39E-05	10576	-0.10	8.52E-03	6319	-0.30	4.40E-04
8963	0.10	4.13E-04	10577	0.30	3.78E-05	6330	0.10	3.67E-04
369								
8965	-0.10	2.54E-03	10586	0.10	2.57E-03	6338	0.10	5.93E-03
8977	-0.20	2.74E-06	10588	0.10	3.60E-03	6340	-0.20	6.39E-04
8981	0.10	3.28E-07	10601	-0.10	5.07E-03	6342	-0.10	2.57E-03
8987	-0.10	1.70E-03	10605	-0.10	5.23E-04	12115	-0.20	9.42E-06
9002	0.20	5.24E-11	10608	-0.10	2.04E-03	12137	0.10	5.02E-04
9005	-0.10	2.57E-03	10609	0.20	2.19E-03	12147	0.10	8.50E-04
9011	-0.10	2.40E-04	10612	0.10	5.93E-04	12154	0.20	5.64E-10
9013	-0.20	1.23E-09	10624	-0.10	9.56E-04	12173	0.10	1.90E-04
9019	0.10	2.22E-05	10627	0.20	7.08E-15	12184	-0.10	2.81E-03

9020	0.10	1.20E-05	10631	-0.10	5.96E-06	12194	0.20	1.47E-05
9029	-0.10	4.61E-03	10649	0.10	3.00E-06	12210	-0.10	2.97E-06
9030	0.10	1.19E-03	10655	-0.10	1.08E-03	12219	0.10	1.10E-03
9040	-0.10	6.98E-04	10664	-0.10	1.23E-03	12250	-0.10	1.73E-04
9046	0.10	8.63E-03	10677	0.10	5.35E-03	12257	-0.10	1.02E-03
9052	-0.10	4.80E-04	10685	-0.20	4.72E-09	12273	0.10	4.69E-03
9054	0.10	2.22E-03	10686	0.10	1.70E-04	12274	-0.10	1.94E-04
9055	-0.10	5.07E-04	10724	0.10	5.46E-03	12275	-0.10	4.29E-04
9056	-0.20	1.09E-09	10740	-0.20	3.33E-10	12280	0.10	2.17E-04
9072	0.10	3.31E-05	10741	0.10	8.29E-03	12283	-0.10	2.91E-04
9077	-0.10	1.18E-03	10744	0.20	3.38E-05	12284	0.10	2.00E-03
9081	-0.10	1.11E-06	10746	-0.10	6.81E-05	12292	0.10	4.41E-03
9084	-0.10	2.21E-05	10767	0.20	3.34E-04	12294	0.20	1.21E-05
9093	0.10	3.23E-05	10773	-0.20	5.60E-07	12302	0.10	3.71E-05
9094	0.20	7.73E-07	10780	0.10	3.10E-03	12315	-0.10	5.64E-05
9096	-0.10	5.18E-05	10785	0.10	2.61E-03	12316	0.10	3.71E-03
9097	-0.10	5.60E-03	10807	-0.10	9.73E-04	12322	0.10	9.58E-03
9108	-0.20	5.94E-06	10810	-0.10	1.47E-03	12327	0.20	2.01E-09
9123	-0.10	4.80E-04	10818	-0.10	3.80E-04	12330	0.10	7.19E-07
9126	0.10	9.07E-04	10819	-0.20	2.68E-06	12359	-0.10	3.65E-03
9130	0.10	5.97E-06	10821	0.10	4.42E-04	12362	0.10	1.12E-04
9132	-0.10	1.69E-06	10828	-0.10	3.94E-06	12364	0.20	4.72E-04
9167	-0.10	1.40E-03	10839	-0.10	3.39E-04	12365	0.10	8.98E-04
9168	-0.10	1.52E-03	10840	-0.10	5.47E-04	12371	-0.20	2.19E-08
9178	0.10	1.71E-03	10850	0.10	2.61E-06	12379	-0.10	8.91E-03
9179	0.10	1.16E-03	10858	0.10	3.07E-04	12383	0.10	1.21E-05
9180	0.10	9.57E-04	10865	-0.10	8.03E-04	12409	-0.10	1.52E-04
9195	0.20	1.40E-03	10866	0.10	7.01E-03	12412	-0.10	1.25E-03
9200	-0.10	9.14E-07	10878	0.10	7.09E-04	12414	0.20	2.31E-05
9202	0.10	4.56E-03	10888	-0.10	8.82E-03	12458	0.10	2.28E-03
9207	0.10	4.94E-05	10891	0.10	7.74E-03	12466	-0.10	5.06E-05
9210	-0.10	2.53E-06	10892	-0.10	3.69E-06	12491	0.10	2.58E-03
9213	-0.20	9.99E-07	10900	0.10	4.39E-07	12516	-0.10	8.12E-03
9216	-0.10	4.53E-05	10911	0.10	7.95E-05	12531	0.10	4.49E-07
9229	0.30	9.68E-08	10924	-0.10	6.51E-03	12532	0.10	2.36E-03
9231	-0.10	1.41E-04	10929	0.20	2.57E-03	12539	-0.10	8.19E-03
9239	-0.10	1.22E-03	10936	0.10	9.46E-03	12540	-0.10	9.89E-04
9251	-0.10	1.18E-04	10944	-0.10	6.59E-04	12557	0.20	4.71E-07

9257	-0.20	2.62E-04	10962	0.10	1.71E-05	12563	0.10	2.65E-03
9258	0.30	1.56E-08	10965	-0.10	3.88E-03	12581	0.10	1.91E-06
9259	-0.10	3.00E-03	10974	-0.10	3.67E-04	12584	-0.20	4.17E-07
9260	-0.10	6.27E-03	10994	-0.10	5.24E-05	12588	-0.20	9.53E-06
9261	0.10	3.17E-03	11000	-0.20	1.12E-03	12595	0.20	6.37E-10
9272	-0.10	4.06E-03	11003	-0.10	5.13E-03	12597	0.10	5.57E-04
9275	-0.10	2.88E-05	11007	0.10	7.49E-06	12602	-0.10	1.14E-03
9300	0.10	1.77E-04	11009	-0.10	3.62E-03	12605	-0.10	9.55E-05
9301	0.20	1.88E-05	11032	-0.10	1.72E-03	12615	0.10	6.09E-06
9302	-0.10	5.01E-03	11042	-0.20	3.54E-04	12617	-0.20	3.09E-06
9305	0.20	1.13E-07	11053	0.10	6.33E-03	12625	0.10	1.20E-03
9310	0.10	6.83E-03	11060	0.10	5.95E-04	12635	-0.10	1.25E-03
9313	-0.20	8.46E-04	11062	0.10	2.48E-07	12639	0.10	1.73E-03
9321	-0.10	2.24E-04	11065	0.10	2.89E-03	12652	0.20	9.52E-06
9329	0.10	5.39E-05	11074	0.10	5.67E-04	12655	-0.10	1.47E-03
9332	0.10	7.43E-03	11076	0.20	1.08E-05	12664	-0.10	5.68E-03
370								
9335	-0.10	4.53E-03	11082	0.20	9.96E-10	12665	0.20	4.62E-06
9361	-0.10	2.08E-05	11087	-0.10	2.14E-06	12667	-0.10	1.24E-03
9367	0.10	1.88E-03	11088	-0.10	3.21E-03	12674	-0.10	5.07E-06
9373	-0.10	2.67E-05	11094	-0.10	1.45E-03	12678	0.30	8.18E-05
9376	-0.10	3.52E-04	11097	0.10	6.72E-04	12679	-0.20	2.70E-05
9378	-0.10	1.19E-03	11101	-0.10	5.88E-04	12682	0.10	5.14E-03
9386	-0.20	3.68E-08	11103	-0.10	8.80E-08	12684	-0.10	5.36E-03
9389	0.10	8.07E-08	11108	0.10	5.75E-03	12691	-0.10	9.44E-05
9401	0.20	8.44E-06	11114	-0.10	3.07E-04	12692	-0.10	4.01E-03
9413	-0.20	2.92E-04	11116	0.10	1.47E-03	12701	-0.10	8.51E-03
9420	0.10	6.05E-04	11127	0.10	1.37E-03	12720	-0.10	3.31E-03
9432	0.20	5.92E-11	11136	-0.10	6.61E-04	12728	-0.10	6.08E-03
9433	-0.20	4.11E-07	11139	0.10	8.40E-05	12732	-0.10	3.76E-05
9444	0.30	1.14E-04	11140	-0.10	6.67E-03	12743	-0.10	1.03E-04
9445	-0.10	6.62E-03	11152	-0.10	4.54E-06	12766	-0.20	1.49E-06
9459	-0.10	7.82E-03	11154	-0.10	8.13E-03	12773	0.10	3.22E-03
9460	-0.10	6.39E-03	11166	-0.10	5.76E-03	12814	0.10	6.02E-03
9462	-0.10	4.63E-05	11172	-0.10	5.57E-03	12828	0.20	3.12E-08
9464	-0.20	2.69E-07	11179	0.10	4.26E-03	12840	-0.20	3.63E-04
9479	0.10	9.37E-03	11181	-0.10	8.56E-03	12849	-0.10	2.96E-05
9480	-0.20	5.93E-08	11201	-0.20	3.21E-04	12867	-0.10	1.86E-03

9486	0.20	3.70E-04	11210	0.10	3.94E-03	12882	0.10	7.67E-03
9497	-0.10	1.54E-04	11217	-0.10	4.05E-04	12897	0.10	1.18E-03
9521	-0.10	1.94E-03	11239	0.20	2.06E-06	12898	0.10	1.02E-06
9525	0.20	7.42E-03	11244	0.10	2.70E-05	12926	0.10	6.87E-03
9542	-0.10	7.74E-03	11277	-0.10	6.86E-03	12940	-0.10	1.02E-03
9543	-0.10	6.68E-03	11282	-0.20	2.98E-03	12975	-0.10	8.65E-03
9552	0.10	5.94E-03	11287	0.10	1.09E-04	12977	0.20	7.21E-06
9553	-0.20	6.67E-14	11290	0.10	1.62E-04	12980	-0.20	2.61E-06
9554	0.10	2.92E-07	11294	0.10	8.68E-03	12987	0.10	2.60E-03
9561	-0.10	3.05E-03	11298	0.20	1.23E-03	12990	-0.10	9.00E-03
9566	0.10	1.73E-06	11302	0.10	8.05E-03	12993	0.10	8.96E-05
9569	-0.10	1.67E-03	11303	0.10	5.95E-05	12994	-0.10	3.43E-07
9582	0.20	1.55E-10	11310	0.10	3.73E-08	12995	-0.10	6.72E-03
9584	-0.10	7.13E-04	11322	-0.20	1.80E-04	12996	0.10	8.70E-08
9587	0.10	1.43E-04	11323	-0.20	6.70E-04	13001	0.10	1.46E-04
9595	-0.10	4.03E-04	11330	0.10	5.36E-06	13011	0.10	5.17E-03
9605	-0.10	5.40E-04	11338	-0.10	2.69E-03	13014	-0.10	3.05E-03
9608	0.10	4.71E-04	11340	-0.20	6.77E-08	13018	-0.10	1.30E-04
9619	-0.10	3.49E-03	11356	0.10	4.56E-03	13025	0.20	5.49E-09
9622	-0.20	1.63E-05	11360	-0.10	3.30E-03	13027	0.10	5.65E-03
9626	-0.10	3.86E-03	11363	0.10	6.74E-06	13038	-0.20	1.18E-03
9646	-0.10	5.05E-03	11369	0.20	1.80E-09	13051	0.10	5.11E-03
9655	-0.10	6.87E-07	11374	0.10	2.04E-03	13059	-0.10	6.66E-03
9656	-0.10	5.10E-03	11383	0.20	2.60E-09	13080	0.10	1.56E-04
9657	-0.10	5.19E-04	11400	0.20	7.14E-06	13088	-0.10	9.44E-04
9658	0.10	6.86E-04	11406	-0.10	4.67E-05	13091	-0.10	1.13E-04
9663	-0.20	1.49E-03	11417	0.10	2.66E-04	13094	-0.10	5.73E-03
9673	-0.10	1.50E-03	11442	0.10	1.50E-03	13107	0.10	6.31E-04
9676	0.10	9.76E-07	11444	0.10	9.57E-03	13108	-0.10	2.26E-03
9682	0.10	1.51E-06	11456	-0.10	1.44E-05	13113	-0.10	4.19E-03
9688	-0.10	1.67E-04	11462	-0.10	3.22E-04	13123	-0.10	1.50E-03
9696	-0.10	3.36E-04	11467	0.10	9.18E-05	13126	0.10	7.58E-03
9697	-0.10	1.99E-04	11468	-0.20	5.71E-04	13139	-0.10	7.81E-03
9703	0.10	4.22E-04	11471	0.10	2.58E-03	13149	0.10	3.90E-03
9738	0.10	3.22E-03	11472	-0.10	1.36E-03	13151	-0.20	5.58E-05
9748	0.20	9.69E-06	11488	-0.20	6.96E-04	13161	0.20	5.80E-09
9749	0.20	6.07E-09	11497	0.10	3.18E-03	13185	-0.20	1.16E-09
9760	-0.10	5.86E-03	11501	-0.10	9.75E-05	13199	0.20	7.00E-08

9761	0.20	4.60E-12	11502	-0.10	5.31E-04	13200	0.10	7.19E-03
9763	0.10	5.60E-04	11503	-0.10	2.38E-04	13212	-0.20	1.16E-07
9766	0.20	4.49E-03	11510	0.20	5.28E-09	13216	-0.10	2.22E-05
9770	-0.10	2.56E-03	11533	-0.10	6.46E-05	13217	-0.10	1.31E-06
371								
9773	-0.10	1.25E-04	11541	0.10	6.20E-03	13218	-0.10	4.51E-04
9777	-0.10	8.76E-03	11551	-0.10	9.15E-04	13238	-0.10	2.02E-04
9794	0.10	1.78E-05	11560	0.20	9.53E-07	13239	-0.20	1.60E-03
9806	0.10	7.76E-03	11569	0.10	5.62E-03	13296	-0.10	8.13E-04
9807	0.20	4.29E-06	11577	-0.10	1.53E-07	13297	-0.30	1.31E-04
9815	-0.10	5.35E-04	10062	0.10	1.57E-04	9977	-0.20	2.92E-03
9828	-0.10	1.62E-04	10069	-0.10	1.24E-04	9990	-0.30	8.33E-04
9835	0.10	6.97E-04	10076	-0.10	2.42E-03	9995	0.10	1.20E-04
9837	0.10	4.85E-03	10078	0.20	8.44E-03	10000	0.20	2.60E-08
9849	-0.10	3.99E-05	10081	-0.10	4.71E-05	10001	-0.10	9.96E-04
9858	-0.10	1.82E-03	10092	0.10	3.97E-03	10023	0.10	4.68E-03
9859	-0.10	2.28E-06	10094	0.20	1.15E-03	10033	0.10	7.16E-04
9866	-0.10	1.04E-03	10096	-0.10	4.12E-05	10035	0.20	2.47E-13
9867	-0.10	1.18E-03	10100	-0.10	2.68E-04	10044	0.10	1.09E-03
9868	0.20	1.52E-06	10156	0.20	7.41E-03	10052	-0.20	1.94E-04
9876	-0.10	3.04E-04	10157	-0.10	3.04E-04	10053	0.10	3.09E-03

A	B	C	A	B	C	A	B	C
1194	-0.20	3.42E-07	1604	0.10	2.78E-03	2003	-0.10	1.40E-04
1202	0.10	9.35E-03	1608	-0.20	1.31E-05	2004	-0.10	5.10E-03
1204	-0.20	2.60E-04	1612	0.10	4.36E-03	2008	-0.20	3.42E-06
1205	-0.20	5.25E-04	1614	-0.10	5.42E-04	2011	0.10	2.39E-05
1214	0.10	5.17E-03	1623	-0.10	8.28E-06	2013	-0.10	6.61E-06
1230	0.20	2.23E-03	1637	0.10	1.17E-04	2015	-0.20	2.97E-03
1242	-0.10	5.46E-03	1656	-0.10	1.06E-03	2016	0.10	3.60E-03
1252	0.10	1.52E-03	1662	0.10	1.11E-03	2018	0.10	4.91E-03
1266	-0.10	7.04E-04	1669	-0.10	7.14E-04	2020	0.20	7.49E-08
1283	-0.10	2.00E-04	1670	-0.20	2.71E-03	2024	0.10	8.81E-03
1287	0.10	5.80E-07	1678	0.10	1.72E-04	2035	0.10	1.53E-04
1291	-0.10	4.78E-03	1684	-0.10	6.33E-04	2040	-0.10	1.51E-04
1293	-0.30	4.62E-06	1691	-0.10	1.95E-03	2043	0.10	1.42E-03
1301	0.10	2.50E-04	1710	0.10	1.37E-03	2044	-0.10	6.85E-03
1306	0.10	2.31E-03	1714	-0.20	1.80E-03	2049	-0.10	6.57E-04
1309	-0.10	1.69E-03	1717	0.20	2.49E-04	2057	-0.10	5.13E-06
1317	-0.10	6.77E-04	1718	-0.10	4.30E-03	2059	0.10	4.28E-03
1332	-0.10	7.68E-03	1729	0.20	9.03E-10	2077	0.10	1.34E-04
1334	0.10	1.60E-03	1737	0.10	7.20E-03	2078	-0.20	7.30E-13
1336	0.10	9.60E-03	1744	0.20	8.84E-09	2091	0.10	5.17E-03
1340	-0.20	1.84E-03	1745	0.20	2.06E-09	2096	0.10	5.37E-08
1346	-0.10	1.00E-06	1747	-0.10	1.48E-06	2107	0.20	5.10E-05
1347	-0.10	3.89E-03	1751	0.10	1.50E-04	2108	0.20	2.38E-04
1348	0.10	2.90E-03	1757	-0.20	6.57E-07	2110	-0.10	6.56E-04
1349	0.10	7.75E-07	1758	-0.20	2.45E-03	2118	0.10	1.23E-04
1362	-0.10	6.29E-03	1760	0.20	2.95E-10	2125	0.20	1.39E-03
1367	0.10	5.23E-03	1766	0.10	1.24E-03	2128	-0.10	1.25E-03
1375	-0.20	1.01E-08	1777	0.10	8.57E-03	2131	-0.10	3.81E-03
1378	-0.10	3.49E-03	1778	0.10	3.59E-03	2133	0.10	2.13E-04
1393	-0.10	7.02E-05	1779	-0.10	3.81E-04	2137	0.10	7.00E-04
1408	-0.10	5.96E-03	1781	-0.10	3.52E-03	2140	0.20	4.70E-08
1410	-0.10	1.22E-03	1782	-0.10	3.37E-03	2144	-0.10	6.05E-08
1412	0.10	2.89E-03	1789	0.10	7.97E-05	2145	0.20	2.39E-18
1415	0.10	3.96E-08	1790	0.10	6.12E-05	2146	0.10	3.08E-03
1434	-0.10	2.94E-03	1814	-0.10	8.46E-03	2152	-0.10	7.98E-03

1435	0.20	1.53E-12	1819	-0.10	3.30E-04	2162	0.10	5.20E-05
1436	-0.10	3.05E-03	1820	0.10	3.47E-03	2166	-0.10	9.50E-05
1442	-0.10	1.30E-03	1827	0.10	2.08E-09	2171	-0.10	4.56E-04
1459	-0.10	3.74E-03	1853	0.20	3.43E-04	2175	-0.20	1.86E-03
1464	0.10	7.48E-03	1859	0.10	1.52E-03	2183	-0.10	1.52E-04
1465	-0.10	1.94E-03	1863	0.10	2.37E-06	2185	-0.10	1.48E-03
1466	-0.20	1.01E-06	1871	0.10	1.59E-05	2194	-0.10	8.94E-03
1467	0.10	1.39E-03	1875	-0.10	2.57E-04	2210	-0.10	1.74E-03
1468	-0.10	1.69E-03	1876	0.10	1.89E-03	2215	0.20	5.24E-12
1478	-0.10	7.29E-03	1879	0.10	2.69E-03	2216	0.10	3.33E-03
1489	-0.20	2.14E-05	1886	0.10	1.15E-06	2219	-0.10	7.45E-03
1490	0.20	6.63E-08	1889	-0.10	7.33E-03	2222	-0.10	9.08E-03
1500	-0.10	4.10E-03	1890	-0.10	5.09E-04	2228	0.10	7.05E-03
1504	-0.10	9.29E-05	1892	0.10	1.66E-04	2229	0.10	3.62E-05
1507	0.10	4.85E-03	1900	0.20	7.97E-04	2233	0.10	6.09E-03
1510	-0.20	4.12E-04	1907	-0.10	1.03E-05	2238	-0.10	9.21E-03
1524	0.20	1.14E-08	1912	0.10	3.81E-03	2243	-0.10	8.90E-03
1525	-0.20	7.73E-04	1920	-0.20	5.50E-06	2245	-0.10	5.08E-04
1529	0.10	7.27E-03	1924	-0.10	6.32E-07	2247	-0.10	1.07E-03
1532	-0.10	7.35E-03	1928	0.10	9.19E-03	2251	0.10	1.08E-03
1560	0.10	1.26E-04	1956	-0.10	1.24E-03	2257	-0.10	7.48E-03
1569	0.10	9.41E-04	1957	-0.10	7.18E-03	2266	-0.20	5.91E-03
1570	0.10	1.79E-03	1965	0.10	1.76E-03	2272	0.10	4.23E-06
1571	0.10	2.02E-03	1974	0.10	5.64E-08	2276	0.10	7.55E-03
1577	-0.10	2.95E-03	1981	-0.10	5.05E-03	2285	0.10	3.53E-06
1588	-0.10	3.39E-05	1982	-0.10	7.58E-03	2288	-0.10	1.14E-03
1593	0.20	1.04E-05	1985	0.20	5.63E-12	2293	-0.10	3.66E-03
1599	0.20	3.23E-07	1993	-0.10	1.88E-05	2294	-0.10	4.03E-03
1601	-0.10	6.54E-06	1994	0.10	9.28E-04	2298	-0.10	2.99E-06
3626	0.10	8.12E-04	4043	0.10	4.51E-06	4460	-0.20	1.69E-08
3629	-0.10	1.29E-04	4047	-0.20	3.14E-03	4470	-0.20	1.40E-08
3630	0.10	2.33E-06	4054	0.20	1.77E-08	4474	0.10	3.83E-04
3642	-0.10	7.33E-04	4056	0.10	6.92E-03	4476	0.10	1.85E-06
3653	-0.10	4.23E-04	4058	-0.10	8.53E-04	4477	0.10	4.53E-03
3667	0.10	3.73E-04	4059	0.10	3.59E-06	4482	-0.10	3.36E-04
3698	-0.10	1.81E-03	4064	0.10	7.76E-03	4492	0.20	6.44E-06
3704	0.10	6.47E-03	4065	-0.20	5.70E-03	4493	-0.10	1.38E-03

3706	-0.10	1.66E-03	4083	-0.20	4.19E-04	4506	-0.10	1.40E-05
3708	-0.10	3.89E-05	4090	-0.10	3.08E-04	4508	0.10	5.88E-05
3715	-0.10	3.79E-03	4091	0.30	2.48E-04	4509	-0.10	1.58E-03
3716	-0.10	3.88E-03	4098	0.10	1.65E-04	4512	0.20	2.27E-10
3720	-0.20	4.72E-04	4099	0.10	2.38E-04	4528	0.20	3.73E-05
3725	0.10	7.54E-03	4103	-0.10	2.03E-03	4530	0.20	9.37E-04
3726	-0.10	3.14E-05	4106	0.10	2.68E-04	4537	0.10	6.72E-04
3728	0.10	6.89E-03	4107	0.20	2.00E-09	4542	-0.10	1.25E-04
3729	0.10	1.64E-05	4122	-0.10	8.55E-06	4544	0.10	3.08E-03
3732	-0.10	1.60E-05	4128	-0.10	6.12E-03	4545	0.10	1.73E-03
3743	0.10	8.58E-03	4135	-0.10	8.46E-04	4554	-0.10	5.20E-03
3745	-0.10	1.22E-03	4141	-0.20	9.20E-06	4558	0.10	1.73E-03
3750	0.10	3.66E-04	4149	-0.10	8.71E-07	4559	0.10	2.00E-03
3762	0.10	4.96E-03	4150	-0.20	2.10E-10	4577	0.20	9.73E-06
3764	0.10	3.97E-03	4156	0.10	1.90E-03	4580	0.10	2.31E-03
3765	-0.10	5.38E-05	4158	0.10	7.11E-06	4582	0.10	1.36E-03
3776	0.10	1.20E-03	4162	0.10	2.24E-04	4599	-0.20	1.15E-11
3805	0.10	7.60E-03	4176	-0.10	2.51E-03	4605	-0.10	3.37E-06
3810	0.10	2.60E-03	4178	-0.20	1.12E-03	4608	-0.10	9.48E-03
3818	0.10	8.40E-03	4194	0.10	1.22E-06	4610	0.10	4.43E-04
3839	-0.10	3.99E-06	4196	0.10	1.52E-05	4613	-0.10	9.56E-04
3840	-0.20	1.69E-05	4199	0.10	1.23E-03	4622	0.10	9.81E-03
3847	0.10	7.78E-06	4230	-0.20	1.38E-06	4648	-0.20	1.14E-06
3851	-0.10	5.78E-04	4231	-0.10	3.35E-03	4664	-0.10	2.44E-03
3864	0.10	8.36E-05	4242	-0.10	1.41E-05	4679	0.10	8.97E-04
3871	0.10	4.58E-05	4270	-0.10	4.03E-05	4692	0.10	1.07E-05
3873	-0.10	1.25E-04	4277	0.10	3.51E-03	4694	0.10	2.69E-05
3878	0.10	7.84E-04	4285	0.10	3.00E-04	4703	-0.10	6.13E-04
3880	-0.10	9.63E-04	4298	-0.10	4.03E-03	4705	-0.10	5.02E-05
3886	0.10	1.36E-03	4307	-0.10	1.69E-05	4708	-0.20	1.35E-06
3895	0.10	2.89E-03	4313	-0.10	6.46E-04	4723	-0.20	9.64E-09
3904	0.10	8.33E-04	4315	0.10	3.52E-06	4724	-0.10	4.90E-04
3907	-0.10	9.94E-03	4321	0.10	3.17E-03	4734	0.10	6.11E-04
3910	0.10	2.78E-05	4327	0.20	2.52E-05	4737	0.10	9.51E-04
3912	-0.10	7.17E-03	4332	0.10	2.48E-03	4738	0.10	1.86E-04
3915	-0.10	3.06E-03	4344	0.20	2.08E-03	4739	0.10	4.14E-03
3918	0.10	5.71E-05	4351	-0.10	6.00E-05	4740	0.10	2.55E-03
3927	-0.10	6.75E-03	4352	0.10	1.69E-03	4744	-0.10	2.32E-03

3933	0.20	1.69E-11	4372	0.10	7.65E-03	4746	0.10	6.58E-03
3937	-0.10	2.19E-04	4396	-0.10	1.33E-04	4757	0.10	5.87E-07
3951	-0.10	2.02E-03	4405	0.20	2.13E-04	4758	-0.10	1.74E-05
3953	-0.20	7.49E-06	4408	0.20	1.30E-06	4763	0.10	5.76E-03
3961	-0.10	1.55E-05	4411	0.10	6.75E-03	4765	0.20	9.40E-16
3969	0.20	1.92E-06	4412	0.10	5.50E-03	4770	-0.10	1.09E-05
3979	-0.20	5.55E-04	4415	-0.10	7.12E-05	4774	0.10	1.01E-03
3983	-0.10	7.28E-04	4419	-0.10	6.98E-03	4775	0.20	1.37E-13
4005	0.20	1.21E-04	4422	0.20	9.98E-07	4780	-0.10	8.20E-04
4006	0.10	7.29E-03	4425	0.10	6.15E-06	4786	0.10	8.11E-05
4007	0.10	7.23E-03	4427	-0.20	1.44E-05	4787	0.20	8.67E-09
4014	0.20	1.03E-08	4430	0.10	4.80E-03	4788	0.10	1.25E-04
4016	-0.20	6.39E-09	4447	0.10	9.83E-03	4794	0.10	4.11E-04
4028	0.10	9.41E-04	4451	0.10	3.99E-03	4795	0.10	4.35E-03
4030	0.10	1.21E-04	4452	0.10	2.64E-03	4797	0.10	2.81E-07
4035	-0.10	3.10E-03	4453	0.10	9.43E-04	4808	-0.10	5.25E-05
4039	0.10	4.93E-03	4458	0.10	9.82E-07	4813	-0.10	1.33E-03
4042	0.10	9.28E-05	4459	-0.20	2.18E-08	4817	0.10	5.43E-04
6367	-0.10	6.33E-03	7172	-0.10	8.89E-03	7970	-0.10	9.67E-03
6369	0.10	1.51E-05	7180	0.20	6.03E-04	7981	-0.20	5.00E-05
6372	-0.10	1.17E-03	7182	0.20	1.45E-12	7986	-0.20	1.89E-04
6374	-0.10	2.31E-03	7184	0.10	1.21E-04	8002	0.10	1.48E-04
6385	-0.10	4.61E-03	7195	-0.10	1.49E-04	8006	0.20	2.23E-07
6387	-0.20	2.31E-08	7196	0.20	2.03E-10	8018	-0.20	1.28E-04
6396	-0.10	6.31E-04	7205	0.10	2.89E-03	8020	0.10	8.61E-05
6400	0.10	8.04E-04	7209	-0.10	3.45E-03	8027	-0.10	3.10E-03
6411	0.10	6.34E-04	7223	0.10	7.70E-03	8034	-0.10	2.34E-06
6419	0.10	5.17E-03	7227	0.20	3.63E-07	8035	-0.10	2.77E-06
6429	0.10	2.14E-04	7228	0.20	2.61E-07	8037	0.10	3.32E-03
6433	-0.10	2.52E-05	7229	-0.10	7.98E-06	8048	-0.10	5.13E-03
6439	-0.10	5.41E-05	7230	-0.20	1.75E-07	8053	0.10	1.63E-03
6451	0.10	5.65E-03	7232	-0.10	4.36E-05	8055	-0.10	6.82E-03
6455	0.10	2.58E-04	7233	0.10	9.20E-04	8060	-0.10	1.39E-03
6464	-0.10	1.51E-03	7234	-0.10	6.15E-03	8070	-0.10	3.39E-04
6475	0.10	7.07E-04	7238	-0.10	5.50E-04	8074	-0.10	1.40E-03
6480	-0.10	8.88E-04	7241	0.10	1.72E-07	8075	-0.10	9.46E-06
6486	-0.20	7.03E-09	7247	0.20	4.82E-06	8077	-0.10	2.94E-04

6490	-0.10	3.33E-03	7263	0.10	3.70E-03	8078	0.10	6.71E-04
6504	-0.10	2.09E-03	7266	0.10	6.73E-03	8081	-0.10	8.26E-05
6509	0.10	1.99E-04	7269	0.10	3.98E-04	8092	-0.20	4.71E-04
6531	0.10	3.16E-03	7278	0.10	1.39E-03	8100	-0.10	2.46E-03
6537	-0.10	3.61E-04	7279	-0.10	6.81E-05	8111	0.10	3.83E-03
6540	-0.10	6.40E-03	7282	-0.10	9.47E-06	8117	-0.10	6.39E-05
6551	0.20	1.97E-05	7286	-0.10	1.14E-03	8118	-0.20	7.55E-05
6572	-0.10	9.59E-05	7294	-0.20	6.94E-04	8119	-0.10	1.18E-03
6599	-0.10	4.18E-06	7300	0.10	6.69E-03	8129	0.20	2.19E-03
6601	-0.10	1.79E-03	7321	-0.10	7.34E-06	8135	-0.20	2.88E-05
6606	0.20	7.03E-03	7326	0.20	1.46E-03	8146	-0.10	6.38E-07
6615	-0.10	5.94E-04	7361	-0.10	4.76E-04	8147	0.10	4.00E-06
6619	0.10	2.78E-06	7391	0.10	1.41E-04	8148	-0.10	3.01E-04
6621	-0.10	1.04E-06	7396	-0.10	2.88E-03	8149	-0.10	6.83E-03
6627	0.20	1.18E-03	7398	0.10	3.89E-03	8152	0.10	5.52E-03
6629	-0.10	3.39E-03	7401	0.10	2.39E-05	8161	0.20	1.42E-10
6638	0.10	4.29E-04	7410	-0.20	2.71E-07	8168	0.10	5.17E-05
6643	0.10	1.07E-03	7420	0.10	7.17E-03	8172	0.10	6.71E-03
6650	0.10	6.82E-03	7427	0.10	4.19E-03	8173	0.20	3.75E-09
6658	-0.10	2.60E-03	7428	-0.10	6.84E-03	8176	-0.10	2.53E-03
6660	-0.20	1.82E-06	7436	-0.10	3.41E-03	8183	-0.10	4.49E-03
6669	-0.10	1.67E-03	7441	0.10	7.87E-04	8190	0.10	2.73E-03
6676	0.20	1.14E-07	7447	0.10	1.78E-06	8192	0.10	8.87E-03
6679	-0.10	4.84E-05	7448	-0.10	3.45E-03	8197	0.20	6.05E-03
6681	-0.10	4.07E-03	7449	-0.10	4.86E-03	8201	-0.20	1.77E-03
6684	0.10	5.07E-05	7451	-0.10	3.46E-03	8224	-0.10	9.14E-03
6689	-0.10	7.22E-05	7453	-0.10	8.26E-04	8240	-0.10	2.29E-03
6690	0.10	9.63E-03	7454	-0.10	4.18E-03	8244	-0.10	4.07E-03
6697	-0.10	2.09E-03	7460	0.10	1.16E-03	8248	-0.10	5.53E-03
6698	-0.10	9.08E-03	7461	-0.20	1.80E-03	8261	0.10	3.36E-03
6706	0.10	5.81E-06	7462	-0.10	1.52E-05	8285	0.10	9.36E-05
6707	-0.10	3.52E-03	7468	0.10	2.12E-08	8290	0.10	1.14E-03
6711	0.20	3.65E-04	7471	0.10	7.58E-06	8300	0.10	9.37E-04
6712	-0.10	1.10E-03	7481	-0.10	2.16E-04	8309	-0.10	3.24E-03
6715	0.10	5.77E-03	7489	-0.10	1.31E-03	8312	0.10	7.58E-03
6720	-0.10	7.56E-03	7493	0.10	5.55E-03	8319	-0.10	1.64E-04
6722	-0.10	9.87E-03	7494	0.10	1.78E-07	8333	0.10	3.31E-03
6725	0.10	3.91E-04	7495	-0.10	3.61E-04	8340	-0.10	7.19E-03

6735	-0.10	6.04E-03	7496	0.10	6.53E-03	8345	0.10	4.14E-05
6738	-0.10	8.67E-07	7503	0.10	2.79E-03	8347	0.10	4.49E-03
6739	-0.10	7.26E-03	7519	-0.20	6.29E-08	8349	-0.10	9.81E-04
6742	-0.20	7.63E-05	7546	-0.20	3.08E-03	8351	-0.10	1.75E-06
6748	0.10	1.23E-07	7549	-0.10	5.94E-04	8352	-0.10	1.62E-03
6752	-0.10	1.68E-05	7560	0.10	3.16E-06	8354	-0.10	8.61E-03
6762	-0.10	4.68E-03	7563	-0.10	5.65E-03	8358	-0.10	1.36E-05
6776	-0.10	9.31E-04	7565	0.10	7.66E-04	8360	-0.10	1.18E-03
6785	0.10	6.70E-04	7569	0.10	2.91E-05	8362	-0.20	1.23E-05
6786	0.10	1.19E-03	7578	0.20	1.36E-06	8369	-0.20	3.02E-03
6806	-0.10	7.40E-05	7592	-0.20	8.49E-03	8373	-0.10	9.48E-04
6813	-0.10	3.10E-04	7595	0.10	1.90E-03	8375	-0.20	1.86E-04
6817	-0.10	7.63E-03	7596	0.10	6.12E-03	8388	0.10	7.15E-04
6818	0.10	3.25E-03	7597	-0.10	1.22E-04	8391	0.10	1.25E-03
6848	-0.20	2.23E-03	7602	-0.20	3.00E-03	8403	0.10	4.08E-03
6859	-0.10	7.18E-03	7604	-0.10	3.77E-03	8406	-0.10	3.76E-05
6864	0.10	6.18E-08	7619	-0.10	3.30E-03	8415	-0.10	4.94E-05
6867	0.10	1.89E-04	7624	-0.10	2.61E-03	8417	-0.10	4.48E-03
6868	-0.10	4.39E-04	7642	-0.10	6.21E-05	8418	-0.20	1.16E-04
6871	0.10	4.55E-06	7643	0.10	7.36E-04	8419	0.10	7.16E-03
6879	-0.10	2.33E-04	7644	-0.10	3.98E-04	8431	0.10	4.47E-04
6886	-0.10	1.40E-05	7655	0.10	5.20E-05	8439	-0.10	1.91E-03
6887	-0.10	5.57E-03	7668	-0.10	2.76E-03	8446	0.10	5.66E-04
6889	-0.20	4.75E-11	7669	-0.10	4.68E-03	8449	-0.20	3.07E-10
6894	0.10	1.18E-03	7681	0.20	2.31E-05	8450	-0.10	1.56E-04
6898	0.10	1.86E-04	7684	-0.10	5.49E-03	8456	0.10	1.63E-03
6906	0.10	1.08E-03	7702	-0.10	6.38E-03	8460	0.10	3.36E-04
6907	0.10	8.37E-04	7703	-0.10	2.88E-03	8465	-0.10	4.23E-03
6915	-0.10	7.71E-03	7718	0.20	9.12E-04	8468	0.10	4.04E-03
6919	-0.10	4.09E-04	7723	-0.20	1.23E-03	8473	-0.20	1.83E-14
6921	-0.10	3.92E-03	7738	0.10	7.27E-06	8476	-0.10	3.14E-03
6937	-0.10	2.90E-03	7743	-0.10	6.95E-04	8477	-0.10	2.02E-03
6953	0.10	7.94E-04	7745	0.10	2.14E-08	8478	-0.10	4.14E-03
6969	-0.20	1.21E-05	7748	0.20	2.74E-03	8481	0.10	5.36E-03
6981	-0.10	3.08E-03	7754	-0.10	4.26E-03	8487	-0.10	8.04E-04
6985	0.10	1.69E-03	7761	0.10	1.16E-03	8489	-0.10	1.53E-06
6988	0.10	2.80E-03	7763	-0.10	6.81E-04	8506	-0.10	1.16E-05

6991	-0.10	1.79E-03	7767	0.10	1.44E-03	8517	0.20	5.38E-05
6993	-0.20	8.90E-05	7770	0.10	9.59E-04	8520	-0.20	3.29E-03
7001	0.20	5.76E-03	7771	0.10	8.96E-03	8525	0.10	1.25E-05
7006	0.10	3.10E-03	7793	0.10	9.04E-04	8530	-0.10	2.20E-03
7013	0.10	1.80E-03	7796	-0.10	4.55E-03	8539	0.10	9.68E-04
7020	-0.20	1.28E-11	7814	0.10	9.53E-03	8540	-0.10	4.21E-07
7021	0.30	9.87E-09	7815	-0.10	5.14E-04	8544	-0.10	1.79E-05
7040	-0.10	4.58E-03	7821	0.20	1.58E-14	8547	-0.10	5.48E-03
7041	-0.20	5.04E-05	7822	0.10	3.78E-04	8550	0.20	5.10E-10
7044	0.10	7.36E-04	7823	-0.10	2.81E-04	8560	0.10	6.95E-04
7045	0.10	3.21E-03	7824	-0.10	3.58E-03	8562	0.10	5.70E-03
7048	-0.20	1.17E-03	7827	-0.10	3.83E-04	8566	0.10	1.25E-03
7054	-0.10	1.21E-03	7831	-0.10	4.44E-03	8576	0.10	6.59E-03
7056	-0.20	6.49E-05	7854	0.20	1.42E-03	8579	0.10	3.06E-05
7059	-0.20	6.66E-09	7859	-0.10	1.38E-05	8582	-0.10	3.37E-03
7064	-0.10	4.12E-04	7860	-0.20	3.18E-08	8591	0.10	6.43E-04
7074	-0.10	1.66E-04	7866	-0.10	1.29E-03	8596	0.10	1.15E-04
7085	0.10	1.42E-03	7869	0.20	7.56E-03	8603	-0.20	1.91E-03
7086	-0.10	2.49E-03	7871	0.10	8.44E-03	8617	-0.10	6.12E-03
7087	-0.10	4.61E-06	7872	-0.20	2.74E-04	8623	-0.10	4.61E-03
7092	-0.10	1.78E-03	7874	-0.10	1.23E-03	8628	-0.20	8.49E-03
7095	-0.10	1.53E-04	7876	-0.10	2.21E-04	8644	0.10	1.32E-03
7104	-0.30	5.72E-04	7883	0.10	6.44E-03	8647	-0.10	6.59E-03
7123	-0.10	1.71E-06	7886	0.10	3.01E-07	8648	-0.10	7.82E-03
7124	-0.10	4.60E-03	7899	0.10	3.03E-04	8651	-0.10	4.26E-03
7129	-0.10	1.57E-07	7902	-0.10	3.24E-04	8656	0.10	3.29E-06
7139	0.10	6.63E-03	7916	-0.10	1.01E-05	8658	-0.10	7.21E-03
7142	-0.10	2.18E-04	7937	0.20	5.97E-20	8659	-0.10	4.51E-03
7145	-0.10	7.86E-08	7946	-0.10	5.19E-04	8663	-0.10	1.48E-06
7149	0.10	1.57E-04	7948	-0.10	4.52E-03	8665	0.10	7.41E-03
7170	-0.10	1.73E-03	7952	0.20	2.59E-08	8677	-0.10	6.31E-03
13885	-0.10	4.96E-04	6652	-0.05	5.00E-02	15060	0.10	2.04E-03
13889	-0.20	3.97E-03	6745	0.09	5.00E-02	15078	0.10	1.93E-06
13898	0.10	7.83E-03	6946	0.05	5.00E-02	15088	-0.20	2.89E-07
13906	-0.10	4.38E-04	7246	-0.08	5.00E-02	15092	0.10	8.89E-03
13913	-0.10	9.83E-05	7534	-0.07	5.00E-02	15110	0.20	4.34E-11
13917	0.10	3.95E-03	7867	0.09	5.00E-02	15113	-0.10	7.01E-04

13937	0.20	2.56E-03	8017	0.06	5.00E-02	15131	-0.20	6.68E-08
13940	-0.10	5.78E-03	8041	-0.23	5.00E-02	15164	-0.10	1.72E-06
13949	-0.20	7.05E-04	8640	0.04	5.00E-02	15168	-0.10	7.59E-04
13951	-0.10	3.02E-05	8661	0.18	5.00E-02	15184	0.10	2.06E-03
13959	0.10	6.97E-04	8678	-0.04	5.00E-02	15187	-0.20	6.71E-04
13971	0.10	6.64E-04	8962	-0.05	5.00E-02	15188	-0.10	4.48E-04
13980	-0.10	6.21E-03	9004	0.58	5.00E-02	15206	-0.10	3.25E-03
13989	-0.10	1.06E-06	9454	0.03	5.00E-02	15209	0.10	3.19E-06
13998	-0.10	7.11E-03	9511	0.05	5.00E-02	15232	0.10	2.47E-03
14007	0.10	2.60E-03	9514	0.05	5.00E-02	15233	-0.10	1.32E-03
14009	0.10	5.21E-05	9535	0.06	5.00E-02	15236	-0.20	3.75E-04
14030	-0.10	5.09E-03	10220	-0.31	5.00E-02	15237	0.10	1.15E-03
14036	-0.10	6.22E-04	10471	0.04	5.00E-02	15243	0.10	2.62E-04
14045	0.20	1.14E-03	10598	-0.03	5.00E-02	15281	-0.10	1.15E-03
14049	0.10	8.52E-07	10904	-0.12	5.00E-02	15331	-0.10	3.54E-04
14053	-0.10	1.01E-03	11158	-0.04	5.00E-02	15337	-0.20	2.71E-05
14055	0.10	5.01E-03	11750	0.03	5.00E-02	15340	-0.10	1.53E-03
14057	-0.10	1.87E-04	11836	0.34	5.00E-02	15359	-0.10	1.58E-03
14061	0.10	3.99E-03	11951	0.28	5.00E-02	15363	-0.20	8.32E-03
14071	0.10	3.02E-04	12255	-0.09	5.00E-02	15374	-0.10	5.79E-04
14081	-0.10	1.02E-03	12425	-0.46	5.00E-02	15375	0.10	2.54E-03
14089	0.10	1.54E-05	12474	-0.33	5.00E-02	15379	-0.10	3.04E-04
14104	-0.10	4.71E-03	12616	0.19	5.00E-02	275	0.11	5.00E-02
14114	0.10	8.13E-03	12631	-0.23	5.00E-02	371	0.03	5.00E-02
14116	0.10	5.85E-03	12924	0.04	5.00E-02	461	-0.04	5.00E-02
14124	-0.10	3.39E-03	13232	0.41	5.00E-02	482	-0.07	5.00E-02
14125	0.10	1.85E-03	13234	-0.03	5.00E-02	514	0.03	5.00E-02
14128	0.10	2.65E-03	13369	0.21	5.00E-02	575	-0.05	5.00E-02
14130	-0.10	1.40E-03	13749	-0.35	5.00E-02	634	-0.03	5.00E-02
14131	-0.10	1.03E-04	13781	0.05	5.00E-02	1155	0.10	5.00E-02
14136	-0.10	5.66E-03	13918	0.22	5.00E-02	1365	-0.04	5.00E-02
14144	0.10	2.31E-03	14395	-0.04	5.00E-02	1426	0.05	5.00E-02
14153	-0.10	9.20E-05	14425	0.18	5.00E-02	1683	0.15	5.00E-02
14154	0.20	3.81E-07	14480	-0.08	5.00E-02	2170	-0.08	5.00E-02
14160	-0.10	3.70E-03	14660	-0.18	5.00E-02	2308	-0.15	5.00E-02
14189	0.10	2.11E-03	14816	0.30	5.00E-02	2729	-0.06	5.00E-02
14191	0.10	4.70E-05	14822	0.14	5.00E-02	2759	0.03	5.00E-02
14198	0.10	1.28E-04	14848	-0.16	5.00E-02	2963	-0.10	5.00E-02

14206	0.10	3.49E-05	14897	-0.08	5.00E-02	3319	0.04	5.00E-02
14219	0.10	4.05E-05	14987	-0.28	5.00E-02	3462	0.07	5.00E-02
14237	-0.10	1.47E-03	15052	-0.03	5.00E-02	3678	-0.04	5.00E-02
14242	-0.10	8.71E-03	15153	0.08	5.00E-02	3921	0.06	5.00E-02
14244	0.20	1.34E-10	15196	-0.53	5.00E-02	4114	0.43	5.00E-02
14246	0.10	4.41E-04	15229	0.38	5.00E-02	4804	0.04	5.00E-02
14253	-0.10	2.20E-04	15240	0.03	5.00E-02	4992	-0.51	5.00E-02
14256	-0.20	5.66E-03	15287	-0.68	5.00E-02	5056	-0.06	5.00E-02
14262	-0.10	6.36E-06	15323	-0.32	5.00E-02	5683	-0.03	5.00E-02
14265	-0.10	1.62E-03	15371	0.03	5.00E-02	6334	-0.03	5.00E-02
14294	0.20	4.72E-03	14344	-0.10	8.11E-03	11593	-0.10	7.28E-04
14296	-0.10	1.33E-05	14359	-0.20	1.40E-03	11601	-0.10	7.18E-03
14297	0.10	9.21E-05	14364	0.10	3.84E-07	11608	0.10	8.35E-04
14298	0.20	4.84E-07	14373	0.10	7.94E-03	11610	0.10	9.55E-07
14299	-0.10	2.12E-03	14379	-0.20	3.85E-04	11612	0.10	8.68E-08
14300	0.10	2.09E-05	14380	0.10	9.21E-05	11613	0.10	4.93E-03
14306	0.10	5.50E-04	14389	-0.10	8.08E-04	11618	0.10	5.48E-03
14309	0.10	5.73E-05	14392	0.10	3.18E-05	11628	-0.10	1.01E-03
14311	-0.10	1.91E-04	14399	0.10	3.71E-05	11656	-0.20	1.51E-04
14316	-0.10	6.60E-04	14405	0.10	6.64E-03	11665	0.10	1.05E-03
13310	0.10	2.62E-05	14410	-0.10	6.18E-03	11666	0.20	1.74E-04
13313	-0.10	3.32E-05	14413	-0.10	3.88E-03	11673	0.20	8.56E-10
13326	0.10	7.59E-03	14422	0.10	3.20E-03	11680	-0.10	1.93E-04
13340	0.10	1.45E-04	14429	-0.10	7.24E-03	11686	0.10	4.93E-03
13344	0.10	5.80E-04	14436	-0.10	1.03E-03	11693	-0.10	8.65E-03
13353	0.10	5.34E-04	14450	0.20	9.68E-08	11702	0.10	9.21E-03
13361	0.10	3.72E-05	14451	-0.20	1.41E-06	11704	0.10	1.35E-04
13363	-0.10	4.87E-03	14454	0.10	2.21E-03	11705	-0.10	6.82E-03
13378	-0.20	3.68E-04	14469	-0.10	8.03E-04	11735	0.10	2.66E-03
13379	-0.10	5.95E-03	14472	0.10	7.34E-03	11742	0.20	1.12E-04
13383	0.20	5.60E-09	14476	0.10	6.98E-03	11743	-0.20	3.47E-07
13389	-0.10	3.28E-03	14489	-0.10	2.26E-03	11756	0.10	3.06E-03
13392	-0.10	1.79E-05	14508	0.20	1.83E-07	11757	0.10	1.63E-03
13396	-0.10	8.35E-06	14534	-0.10	1.63E-04	11767	0.20	7.57E-04
13407	0.10	4.16E-04	14549	0.10	3.89E-03	11769	-0.10	8.41E-04
13435	0.20	2.20E-05	14571	-0.10	1.27E-04	11780	-0.10	2.11E-03
13441	0.20	2.22E-17	14575	-0.20	9.50E-04	11791	0.20	4.57E-06

13447	-0.10	5.83E-03	14582	-0.20	4.80E-09	11799	-0.20	2.22E-04
13461	-0.10	4.56E-03	14583	0.10	5.60E-03	11815	0.10	2.29E-03
13466	-0.10	7.16E-08	14586	0.10	2.33E-04	11825	0.10	4.76E-03
13470	-0.10	2.71E-03	14603	0.10	4.30E-03	11833	-0.10	7.92E-04
13473	0.20	9.95E-03	14615	0.10	8.65E-07	11843	0.10	1.06E-03
13475	-0.10	1.81E-06	14616	0.20	3.61E-05	11844	0.10	9.66E-05
13477	0.10	5.06E-04	14636	-0.20	2.98E-05	11873	-0.10	7.19E-03
13483	0.10	1.98E-04	14659	0.10	7.09E-03	11875	0.30	7.92E-07
13495	-0.10	3.08E-05	14667	0.10	7.62E-03	11887	-0.10	1.42E-03
13496	-0.20	1.46E-07	14668	0.10	1.24E-03	11894	-0.10	3.17E-03
13527	-0.10	5.95E-03	14677	0.10	1.01E-04	11902	0.20	1.51E-03
13532	0.10	1.80E-03	14694	-0.10	7.16E-03	11907	-0.10	1.45E-04
13551	-0.20	4.34E-05	14699	-0.10	8.12E-07	11912	-0.20	8.61E-06
13552	0.20	1.97E-10	14705	0.10	2.10E-04	11917	-0.20	8.08E-04
13554	0.10	4.27E-04	14707	-0.20	3.92E-03	11929	0.10	4.25E-03
13560	0.10	7.49E-03	14708	0.10	5.63E-03	11935	-0.10	2.25E-05
13565	0.10	5.68E-04	14748	-0.10	4.33E-03	11939	-0.10	8.58E-05
13605	-0.10	1.42E-03	14767	0.10	5.74E-03	11944	-0.10	9.10E-03
13607	0.20	3.37E-08	14777	0.10	1.59E-05	11950	0.10	4.47E-06
13611	0.10	1.13E-07	14780	-0.10	4.28E-04	11959	0.10	5.14E-03
13627	0.20	4.02E-06	14781	-0.20	6.52E-04	11960	-0.10	6.69E-03
13635	-0.10	3.80E-03	14791	0.10	1.38E-05	11963	0.10	9.98E-03
13637	-0.10	6.48E-03	14797	0.10	7.00E-07	11966	-0.10	7.09E-05
13646	-0.10	2.95E-03	14801	0.20	4.16E-08	11967	0.10	1.35E-03
13654	-0.10	7.00E-03	14808	0.10	3.59E-06	11982	0.10	5.34E-03
13684	0.10	6.14E-03	14817	0.10	5.43E-03	11998	-0.10	7.08E-03
13687	0.10	1.40E-04	14818	0.10	3.75E-04	12009	0.10	4.06E-03
13712	0.10	2.60E-03	14820	-0.20	4.84E-07	12030	0.10	2.56E-04
13720	0.10	6.70E-05	14838	0.20	4.72E-03	12046	0.20	5.21E-06
13734	0.10	4.37E-04	14841	0.20	1.94E-11	12052	-0.20	7.41E-04
13747	0.10	5.78E-07	14844	-0.20	3.23E-03	12060	-0.10	4.84E-03
13754	-0.20	1.17E-04	14860	-0.10	1.17E-06	12062	-0.20	9.83E-07
13767	0.10	5.41E-05	14866	0.10	2.68E-05	12066	-0.10	2.21E-07
13769	0.10	3.10E-03	14876	-0.20	9.78E-05	12081	-0.10	2.15E-06
13772	-0.10	2.84E-03	14884	-0.10	1.15E-03	12086	-0.10	2.47E-03
13775	-0.20	1.86E-05	14908	0.10	1.11E-03	12093	0.20	6.16E-10
13783	0.10	5.03E-06	14925	0.10	1.81E-05	12095	-0.10	5.74E-04
13795	0.10	1.55E-03	14932	0.10	2.47E-03	10101	-0.10	7.37E-04

13806	0.10	4.29E-06
13826	0.10	2.53E-03
13827	0.30	9.30E-19
13837	-0.10	3.36E-05
13838	-0.10	5.81E-04
13847	0.20	2.43E-12
13860	0.10	4.57E-03
13867	-0.20	3.56E-05
13871	-0.10	7.38E-03
10054	0.10	4.28E-06
9928	0.10	2.71E-03
9929	0.30	1.92E-06
9935	0.20	1.61E-10
9936	0.10	1.50E-05
9952	0.10	5.71E-05
9953	0.10	2.16E-03
9956	-0.10	3.77E-03
9968	-0.10	3.60E-03
9969	-0.10	4.42E-05
9975	0.10	2.02E-03

14944	-0.30	3.51E-04
14948	-0.10	3.20E-04
14972	0.10	6.05E-05
14996	-0.10	2.42E-04
15001	0.10	1.34E-04
15022	0.10	1.93E-04
15023	-0.10	6.20E-04
15033	0.10	6.14E-04
15050	-0.10	4.89E-04
9976	-0.10	5.14E-03
9877	0.10	9.84E-03
9879	-0.10	5.58E-03
9886	0.10	1.66E-04
9894	0.20	4.54E-09
9899	-0.10	3.74E-03
9908	-0.10	2.03E-03
9910	0.10	1.03E-04
9919	0.10	2.15E-03
9923	0.10	9.05E-03

10105	0.10	1.01E-04
10106	-0.20	8.31E-03
10115	-0.10	5.37E-04
10120	-0.10	5.44E-03
10124	0.10	3.18E-03
10132	0.20	3.56E-12
10143	0.10	8.81E-03
10147	-0.10	3.30E-07
10150	0.10	5.72E-06

TABLE 23 - GENETIC MARKERS FOR BONE QUALITY

A	B	C	A	B	C	A	B	C	A	B	C
1	0.10	1.04E-04	7166	-0.10	7.89E-03	3788	-0.20	1.03E-07	10838	0.14	8.52E-07
3	0.10	1.16E-06	7170	0.10	5.77E-04	3793	-0.10	1.01E-06	10842	0.20	1.37E-07
8	0.10	1.82E-04	7181	-0.20	8.24E-03	3796	-0.20	1.91E-05	10853	0.10	7.98E-04
13	0.10	1.46E-04	7182	-0.10	1.56E-05	3797	-0.20	8.36E-05	10859	-0.10	3.81E-03
15	0.20	1.49E-04	7184	-0.10	6.40E-03	3801	0.10	4.16E-03	10865	0.18	1.19E-08
17	0.10	4.31E-05	7188	-0.10	4.19E-03	3804	0.10	8.53E-04	10872	-0.16	5.39E-07
22	-0.10	7.83E-06	7189	0.10	2.69E-03	3810	-0.20	5.54E-10	10877	0.13	4.56E-03
24	-0.10	9.10E-03	7195	-0.20	7.96E-08	3812	-0.10	3.48E-07	10888	-0.13	9.60E-05
26	0.10	8.89E-05	7196	-0.10	2.55E-05	3825	0.20	8.92E-05	10891	-0.12	1.47E-04
32	-0.10	6.10E-06	7197	-0.10	4.52E-05	3839	0.10	2.01E-04	10898	0.21	3.02E-05
35	-0.10	2.24E-04	7198	-0.10	6.80E-03	3840	0.10	6.48E-04	10913	-0.15	4.26E-08
36	-0.20	1.77E-07	7199	-0.10	9.40E-05	3841	-0.10	4.28E-03	10923	-0.20	4.02E-06
39	-0.30	6.94E-07	7200	-0.10	2.21E-04	3846	-0.20	1.59E-03	10924	0.15	6.79E-08
46	-0.20	2.33E-08	7202	-0.20	4.32E-03	3856	0.10	8.85E-04	10926	-0.16	8.90E-04
52	-0.20	1.82E-15	7204	0.20	2.90E-11	3859	-0.10	4.95E-04	10934	-0.12	1.04E-03
54	0.10	5.05E-03	7205	-0.10	4.65E-04	3861	-0.10	1.95E-04	10940	-0.07	8.95E-03
63	-0.10	1.35E-04	7208	-0.10	3.91E-04	3862	0.10	2.41E-04	10942	0.11	1.27E-03
66	-0.20	7.83E-11	7218	-0.10	2.30E-04	3866	0.20	2.03E-08	10943	-0.13	3.20E-03
67	0.10	1.59E-03	7223	-0.20	5.50E-08	3877	0.10	1.43E-04	10944	0.10	1.31E-03
71	-0.20	2.09E-06	7225	-0.30	2.91E-06	3878	-0.20	1.17E-09	10948	-0.17	1.14E-08
73	0.10	1.86E-04	7229	0.10	6.14E-04	3879	-0.10	5.24E-06	10952	0.20	3.50E-10
77	-0.10	1.71E-07	7230	0.10	3.48E-03	3884	-0.10	2.30E-05	10965	0.16	1.72E-08
82	-0.10	1.31E-04	7231	0.10	1.20E-03	3885	0.20	1.82E-14	10980	0.11	8.77E-05
93	0.10	1.56E-03	7232	-0.10	1.79E-05	3889	-0.20	6.93E-05	10985	-0.14	8.77E-08
99	0.20	2.94E-13	7233	0.10	3.72E-03	3894	0.10	3.36E-03	10987	-0.24	6.50E-10
101	-0.30	2.57E-37	7239	-0.20	3.01E-03	3895	-0.10	2.79E-03	10992	-0.08	7.31E-03
106	0.20	4.69E-11	7240	0.10	6.19E-04	3900	-0.10	1.82E-04	10994	0.10	6.00E-04
117	0.10	9.17E-04	7245	0.10	1.18E-03	3902	-0.10	9.97E-05	10995	-0.20	2.65E-08
121	0.10	7.42E-03	7247	-0.30	1.19E-14	3904	-0.10	8.10E-07	11013	-0.10	6.69E-04
123	-0.10	1.60E-03	7251	0.10	1.68E-06	3907	0.10	1.34E-04	11029	0.28	2.67E-17
131	0.20	8.53E-17	7255	0.20	1.55E-04	3909	-0.10	8.32E-03	11038	-0.13	1.32E-06
132	-0.10	2.31E-03	7266	-0.20	3.93E-08	3914	-0.20	6.22E-12	11065	-0.07	7.22E-03
142	-0.10	6.65E-03	7270	-0.10	1.70E-03	3915	0.10	1.92E-05	11078	-0.09	1.44E-03
143	0.10	4.61E-05	7271	-0.10	4.83E-05	3917	0.10	3.99E-04	11086	-0.13	5.01E-04
145	0.10	1.50E-04	7275	-0.30	1.99E-04	3918	-0.20	3.94E-07	11088	0.26	2.25E-20

154	-0.10	3.84E-03	7277	0.20	1.71E-06	3922	-0.10	2.61E-07	11090	0.19	1.99E-06
157	0.10	2.74E-04	7286	0.10	1.57E-03	3925	0.10	2.00E-03	11094	0.18	1.12E-07
162	-0.20	1.47E-06	7291	-0.10	2.70E-04	3926	0.20	5.89E-12	11096	0.15	2.28E-03
166	0.10	2.00E-03	7306	0.10	8.76E-03	3927	-0.20	5.71E-12	11102	0.14	2.37E-06
174	0.20	3.86E-06	7307	-0.10	7.92E-03	3929	0.10	5.42E-04	11103	0.21	1.03E-13
176	-0.20	4.44E-15	7311	-0.10	1.32E-05	3933	-0.10	3.90E-05	11108	-0.10	2.41E-04
181	0.10	5.74E-07	7315	-0.30	1.56E-11	3945	-0.20	4.23E-05	11110	-0.16	5.89E-05
183	0.10	7.35E-04	7319	-0.20	2.27E-06	3946	0.20	4.59E-15	11112	-0.13	4.09E-05
184	0.10	7.65E-04	7322	-0.10	2.54E-03	3947	-0.10	3.47E-03	11115	-0.12	6.08E-03
185	0.10	2.77E-04	7323	-0.10	3.19E-03	3950	0.10	6.14E-03	11116	-0.19	8.58E-06
191	-0.10	6.01E-07	7329	-0.30	5.73E-06	3956	-0.10	3.46E-04	11117	0.21	7.38E-05
194	0.10	9.63E-04	7331	0.30	2.08E-08	3957	-0.10	6.69E-03	11127	-0.19	2.06E-10
198	0.10	2.39E-04	7335	-0.10	4.17E-03	3967	-0.20	3.21E-03	11130	-0.10	3.34E-03
203	-0.10	7.09E-03	7340	-0.20	1.21E-07	3969	-0.20	8.44E-08	11132	0.16	1.23E-06
206	0.10	5.88E-04	7345	0.10	6.93E-04	3971	0.10	3.78E-03	11139	-0.15	1.28E-08
209	0.10	8.77E-03	7357	0.10	3.05E-06	3972	0.20	3.30E-06	11142	0.15	1.11E-06
212	0.10	3.92E-03	7358	0.20	4.55E-08	3975	0.10	1.01E-04	11143	-0.13	1.63E-05
219	0.10	2.63E-04	7360	-0.10	8.91E-03	3978	-0.20	1.21E-09	11149	0.12	2.14E-05
220	-0.20	4.07E-07	7361	0.10	2.12E-05	3983	0.10	2.85E-08	11151	0.14	2.49E-03
222	-0.20	2.47E-12	7362	-0.20	2.14E-08	3994	0.10	1.03E-03	11152	0.11	1.18E-04
226	-0.10	6.68E-03	7374	0.20	1.07E-09	3996	-0.10	1.90E-03	11153	-0.22	3.37E-15
231	-0.10	8.02E-04	7390	0.10	1.62E-03	4002	-0.10	9.53E-03	11157	-0.09	5.06E-03
235	-0.10	1.04E-03	7396	0.20	1.26E-12	4015	0.10	2.42E-03	11172	-0.13	2.97E-06
243	-0.10	7.30E-03	7399	0.10	8.80E-03	4023	-0.10	8.01E-03	11173	0.14	1.63E-06
244	-0.10	1.34E-04	7400	0.10	8.70E-03	4025	0.20	4.04E-08	11174	0.18	2.71E-09
245	0.10	2.09E-03	7402	-0.10	6.10E-03	4027	0.10	1.34E-06	11181	-0.21	1.88E-05
373											
249	-0.10	2.25E-05	7403	-0.20	7.76E-05	4028	-0.20	2.03E-09	11184	0.12	5.13E-05
257	0.10	8.95E-05	7404	-0.20	6.50E-05	4030	-0.10	4.56E-04	11188	0.10	2.22E-04
262	-0.10	1.77E-03	7410	0.20	6.79E-10	4031	-0.20	9.65E-03	11196	0.13	5.97E-07
263	0.20	1.18E-04	7412	-0.10	4.71E-03	4032	0.20	1.89E-08	11206	-0.08	6.61E-03
270	0.10	6.67E-05	7421	-0.10	3.64E-05	4040	-0.10	1.92E-05	11208	-0.10	9.76E-03
272	-0.20	2.81E-09	7424	0.10	2.38E-03	4041	-0.10	2.32E-04	11222	-0.10	9.72E-03
282	0.10	5.28E-04	7426	0.20	5.65E-08	4044	-0.20	5.90E-11	11233	-0.09	3.06E-03
283	-0.10	9.66E-03	7427	-0.20	4.02E-07	4045	0.20	3.42E-07	11237	0.12	8.15E-04
284	-0.10	8.70E-03	7429	0.20	1.66E-12	4049	0.10	7.84E-03	11239	-0.16	7.38E-06
285	-0.10	6.28E-05	7430	-0.10	1.33E-03	4050	0.10	1.73E-03	11241	0.10	5.57E-03
298	0.10	8.59E-05	7431	0.10	1.44E-03	4051	-0.20	3.31E-13	11244	0.09	6.56E-04

305	0.10	3.18E-06	7437	0.10	9.43E-04	4052	-0.20	1.09E-14	11249	-0.14	2.75E-07
307	0.10	1.27E-04	7439	0.10	8.87E-03	4057	0.10	4.71E-03	11251	0.11	5.04E-05
309	-0.10	9.27E-03	7441	-0.10	1.55E-05	4058	0.20	2.88E-10	11254	-0.08	6.13E-05
312	-0.10	3.78E-06	7443	-0.20	7.35E-03	4059	0.10	5.57E-03	11270	0.10	9.08E-03
315	0.20	1.68E-08	7447	-0.10	6.17E-04	4060	0.10	2.57E-04	11284	-0.14	4.98E-06
317	-0.10	1.75E-04	7448	-0.20	1.67E-10	4061	0.10	1.50E-04	11287	-0.13	9.10E-06
318	-0.10	1.47E-05	7454	-0.10	7.16E-04	4070	-0.10	8.23E-04	11288	-0.12	1.02E-03
320	-0.10	7.47E-03	7463	0.10	5.02E-04	4075	-0.20	4.47E-18	11290	-0.22	3.26E-14
321	0.20	3.83E-09	7471	-0.20	8.14E-10	4076	-0.20	3.07E-06	11292	0.22	2.65E-11
330	-0.20	1.16E-07	7477	-0.10	1.15E-03	4081	0.10	6.99E-03	11294	-0.16	9.53E-05
333	0.20	4.18E-16	7478	-0.20	7.39E-04	4082	-0.10	1.28E-04	11298	-0.18	1.77E-03
335	-0.10	3.33E-04	7496	-0.10	2.57E-04	4088	-0.10	1.38E-05	11303	-0.11	2.50E-05
336	-0.20	6.85E-11	7499	-0.10	3.38E-03	4090	0.10	9.59E-03	11305	0.14	8.30E-05
337	0.10	6.07E-08	7503	-0.10	8.20E-06	4091	-0.30	2.87E-06	11306	-0.13	4.76E-07
343	-0.40	8.04E-08	7504	-0.10	3.14E-03	4096	0.10	2.59E-04	11311	-0.10	7.64E-04
345	-0.10	5.59E-05	7506	-0.10	8.70E-03	4097	-0.10	1.69E-03	11312	0.09	3.11E-03
347	0.10	3.48E-05	7507	-0.10	8.85E-04	4098	-0.10	2.08E-06	11314	-0.16	7.11E-09
354	-0.10	8.28E-05	7509	0.10	7.65E-05	4099	-0.10	5.77E-03	11316	-0.13	7.34E-05
359	0.10	2.87E-04	7510	0.20	7.99E-03	4106	-0.20	3.17E-16	11321	-0.23	1.11E-15
370	0.20	1.94E-07	7515	-0.20	1.98E-12	4119	0.20	2.14E-03	11323	-0.14	2.03E-04
376	-0.20	3.01E-07	7516	-0.20	1.41E-12	4120	-0.10	5.54E-07	11330	-0.11	3.40E-05
377	-0.20	7.65E-04	7523	-0.10	1.36E-04	4121	-0.20	7.05E-11	11337	0.10	1.97E-04
380	0.10	5.37E-05	7527	0.20	3.35E-07	4128	0.10	2.26E-03	11340	0.18	2.57E-11
381	0.10	2.02E-05	7532	-0.20	7.02E-06	4130	-0.10	1.56E-07	11344	0.15	2.66E-06
382	0.10	7.36E-04	7540	0.10	3.42E-05	4131	-0.10	1.56E-03	11350	0.11	3.60E-04
393	0.20	5.05E-09	7545	0.10	9.34E-06	4132	0.20	5.38E-03	11359	-0.08	6.03E-03
394	-0.20	1.64E-07	7547	0.10	3.60E-03	4134	-0.10	5.50E-07	11360	0.19	1.52E-08
395	-0.10	8.63E-04	7548	-0.10	7.58E-04	4138	0.20	1.78E-03	11362	-0.23	4.07E-04
396	-0.10	1.51E-04	7549	-0.10	2.33E-06	4141	0.10	2.71E-03	11363	-0.11	4.77E-05
397	0.20	3.48E-11	7552	0.10	9.71E-03	4150	0.10	5.20E-07	11374	-0.12	9.25E-06
404	0.20	4.10E-05	7559	0.10	9.98E-04	4155	0.10	4.76E-07	11382	-0.17	4.77E-09
408	-0.20	7.20E-09	7561	0.20	3.99E-08	4156	0.10	3.17E-06	11386	-0.16	7.39E-04
412	-0.20	2.60E-05	7564	-0.10	3.56E-05	4162	-0.10	1.87E-04	11390	-0.13	1.14E-05
415	-0.10	1.52E-05	7565	-0.20	6.26E-04	4163	-0.10	9.61E-03	11391	0.09	2.79E-03
418	0.10	2.53E-03	7570	-0.10	1.42E-05	4165	-0.10	7.12E-03	11403	-0.10	5.33E-03
425	-0.20	1.51E-14	7571	0.10	1.67E-03	4166	-0.10	5.69E-03	11408	-0.12	4.74E-05
429	0.20	7.69E-11	7573	0.20	7.75E-11	4170	0.30	1.42E-15	11410	-0.07	9.80E-03
433	-0.10	5.24E-04	7575	-0.10	1.04E-03	4181	-0.10	6.70E-03	11415	-0.23	2.72E-04

443	0.10	5.70E-03	7577	0.10	2.03E-03	4183	-0.10	4.56E-04	11427	-0.13	5.01E-04
447	-0.20	3.57E-07	7578	-0.30	2.85E-15	4185	0.10	2.20E-03	11437	0.19	2.43E-06
465	-0.20	2.05E-04	7581	-0.10	6.02E-04	4187	0.10	6.28E-04	11440	-0.15	2.09E-03
467	-0.20	3.64E-11	7582	-0.10	4.71E-06	4188	-0.10	5.76E-03	11444	0.15	1.85E-06
476	0.10	1.90E-05	7584	0.10	3.51E-04	4194	-0.20	7.83E-07	11446	0.15	2.98E-06
478	0.20	5.73E-11	7596	-0.10	1.74E-05	4199	-0.10	6.42E-05	11447	-0.14	2.22E-03
479	-0.20	1.89E-03	7599	0.10	6.76E-03	4204	-0.10	1.42E-03	11456	0.09	3.97E-03
488	-0.10	1.33E-06	7601	-0.20	1.30E-06	4205	0.10	1.27E-04	11459	0.08	4.98E-03
497	-0.20	2.93E-09	7605	-0.10	3.77E-06	4212	-0.10	5.51E-04	11462	0.19	3.02E-06
499	0.20	3.08E-07	7606	0.10	1.63E-06	4214	-0.30	6.58E-07	11471	0.10	8.05E-05
507	-0.10	9.79E-03	7621	-0.10	4.96E-04	4217	0.10	8.53E-04	11475	0.14	3.61E-07
508	0.10	1.50E-04	7635	-0.20	4.94E-07	4219	0.10	1.62E-03	11485	-0.18	8.85E-06
511	-0.10	1.53E-03	7649	-0.20	5.84E-06	4231	0.20	6.80E-13	11489	0.20	1.62E-04
522	-0.10	6.22E-03	7651	0.30	1.06E-03	4234	-0.20	2.47E-10	11497	0.20	2.69E-08
374											
525	-0.10	6.46E-03	7652	-0.20	3.37E-06	4236	0.20	1.22E-03	11501	0.12	1.38E-05
528	0.10	2.12E-03	7653	0.10	3.19E-03	4243	-0.10	2.32E-03	11511	0.18	1.31E-04
529	-0.10	2.04E-04	7654	0.10	4.70E-03	4244	-0.20	8.80E-14	11512	0.19	4.12E-05
531	0.10	1.47E-04	7657	0.10	3.85E-03	4245	-0.20	2.25E-08	11541	0.12	1.42E-03
534	-0.20	1.02E-06	7658	-0.20	4.42E-03	4246	-0.10	6.24E-04	11551	-0.08	3.89E-03
535	0.20	7.03E-06	7659	-0.20	1.85E-05	4248	-0.20	1.75E-04	11553	0.11	8.77E-05
537	0.10	2.26E-09	7660	0.10	4.89E-04	4252	-0.20	4.38E-11	11556	0.20	7.77E-08
540	-0.10	1.61E-05	7663	-0.20	1.08E-03	4254	-0.20	9.93E-05	11560	-0.15	2.31E-07
544	-0.10	4.78E-03	7665	0.20	1.70E-14	4258	0.10	1.62E-03	11577	0.17	1.29E-09
550	0.20	2.22E-05	7679	0.10	4.37E-03	4259	0.20	1.26E-09	11589	0.13	7.75E-04
552	0.10	9.34E-04	7688	-0.10	1.59E-06	4261	0.10	4.37E-05	11593	0.14	1.12E-04
561	-0.20	2.51E-09	7689	0.20	3.50E-10	4265	0.10	1.76E-03	11594	0.12	2.94E-06
562	0.10	3.37E-03	7690	-0.10	2.98E-04	4266	-0.20	1.47E-03	11602	0.16	5.72E-06
563	0.10	1.93E-03	7691	-0.10	5.10E-04	4268	-0.10	1.73E-03	11605	-0.14	5.14E-07
565	0.10	2.14E-06	7693	-0.20	4.31E-05	4274	-0.10	1.97E-04	11610	-0.13	3.99E-06
570	-0.10	8.79E-06	7695	-0.10	1.02E-06	4276	-0.10	3.66E-03	11612	-0.07	9.73E-03
578	0.20	3.76E-10	7698	0.10	7.34E-03	4277	-0.20	3.63E-07	11618	0.09	5.41E-03
580	-0.20	7.94E-09	7699	0.10	2.01E-04	4278	-0.10	1.07E-05	11621	-0.14	2.02E-05
582	0.10	6.04E-07	7703	0.10	1.17E-05	4289	0.10	8.98E-04	11622	0.16	6.67E-08
583	-0.10	9.58E-05	7709	0.10	8.59E-03	4290	0.10	4.52E-03	11623	0.09	1.58E-03
586	-0.20	1.09E-12	7721	-0.20	2.23E-05	4297	0.10	5.81E-07	11628	-0.08	3.40E-03
592	0.20	9.74E-12	7722	-0.30	3.90E-11	4299	-0.10	4.70E-04	11631	0.09	9.75E-04
595	-0.20	5.36E-09	7724	0.10	4.73E-04	4301	-0.20	6.59E-06	11636	0.11	7.36E-05

609	-0.20	7.40E-03	7725	0.10	1.54E-07	4306	-0.10	2.32E-03	11647	-0.27	3.77E-07
614	-0.10	1.58E-04	7727	0.20	6.58E-09	4313	0.10	1.24E-06	11649	-0.17	2.21E-10
615	0.10	2.24E-03	7729	0.10	1.06E-03	4314	0.10	3.98E-05	11659	-0.14	7.42E-07
617	-0.20	6.56E-08	7730	0.10	2.15E-03	4315	-0.20	4.32E-10	11666	-0.26	9.48E-07
624	0.10	1.01E-04	7732	-0.20	1.40E-08	4321	-0.20	2.03E-05	11682	0.16	1.96E-06
628	0.10	7.94E-04	7736	-0.20	7.75E-04	4326	-0.10	2.20E-03	11684	0.14	3.14E-04
629	0.10	2.52E-03	7737	-0.10	1.44E-07	4328	0.20	2.31E-04	11685	-0.14	4.28E-05
633	0.20	5.67E-06	7738	0.10	3.17E-05	4332	-0.10	6.72E-05	11692	-0.25	4.32E-06
637	-0.10	3.56E-03	7742	-0.10	2.16E-05	4334	0.10	5.76E-04	11701	-0.16	1.64E-06
638	-0.10	2.59E-03	7743	0.10	8.10E-06	4339	-0.10	4.49E-05	11714	-0.12	3.12E-04
644	0.20	7.73E-12	7745	0.10	1.03E-04	4341	0.20	4.58E-09	11717	-0.11	5.60E-05
647	0.10	1.33E-05	7747	0.10	1.91E-03	4343	0.20	6.87E-08	11719	-0.21	6.69E-10
648	0.10	1.66E-03	7748	-0.20	1.15E-03	4351	0.10	1.05E-03	11722	-0.14	5.72E-07
649	0.10	1.43E-06	7750	0.20	6.03E-07	4352	0.10	1.95E-03	11743	0.12	4.35E-04
652	0.20	1.48E-05	7751	0.20	1.14E-07	4358	0.20	8.55E-05	11744	-0.10	6.45E-03
655	0.10	4.23E-04	7753	0.10	3.80E-05	4362	-0.10	5.56E-04	11745	-0.08	6.05E-03
657	-0.10	8.11E-05	7754	0.10	2.64E-03	4371	0.20	6.47E-04	11754	-0.11	9.68E-04
660	0.20	2.02E-04	7756	0.20	1.96E-04	4377	0.10	4.84E-03	11757	-0.10	2.81E-03
663	-0.10	1.39E-04	7759	-0.10	5.39E-03	4379	-0.30	2.04E-05	11758	-0.13	2.53E-03
664	-0.10	5.78E-04	7767	-0.10	5.16E-03	4386	-0.20	8.43E-11	11765	0.19	1.25E-06
665	0.10	2.47E-03	7774	0.10	1.78E-03	4387	-0.10	5.10E-04	11767	-0.13	2.68E-03
672	0.10	1.38E-04	7777	-0.20	1.03E-11	4395	0.10	4.15E-03	11771	0.10	3.51E-04
675	-0.10	8.35E-04	7781	0.20	4.61E-12	4396	0.20	9.30E-19	11788	-0.15	6.05E-04
681	0.10	7.04E-04	7785	-0.10	7.51E-04	4398	-0.20	1.63E-09	11791	-0.10	9.86E-03
690	-0.20	2.48E-06	7788	0.10	5.28E-03	4399	0.10	9.78E-03	11803	-0.10	3.00E-03
693	0.20	3.94E-04	7792	0.10	1.81E-04	4400	-0.10	2.37E-03	11806	-0.12	2.70E-03
696	0.10	1.19E-03	7796	0.10	5.32E-04	4401	-0.20	2.91E-05	11815	-0.09	2.64E-03
703	0.10	2.91E-04	7797	0.10	1.44E-04	4405	-0.20	2.31E-06	11825	0.17	8.37E-10
707	0.20	1.37E-09	7807	-0.10	9.35E-03	4413	-0.10	6.87E-03	11847	0.14	3.46E-06
718	-0.20	1.05E-12	7812	-0.10	7.27E-03	4415	-0.10	5.45E-03	11848	0.15	3.00E-03
724	-0.20	1.51E-08	7813	-0.10	4.92E-03	4417	0.10	1.48E-04	11858	0.07	8.39E-03
726	-0.10	5.05E-03	7815	-0.10	1.56E-03	4426	-0.10	1.54E-05	11861	-0.14	4.45E-04
730	-0.10	2.37E-03	7821	-0.20	5.15E-07	4430	0.10	2.51E-05	11864	0.11	6.88E-05
735	0.20	5.13E-10	7822	-0.30	1.46E-24	4446	-0.20	3.71E-08	11874	0.17	5.98E-03
736	0.10	9.48E-03	7823	0.10	1.52E-05	4447	-0.10	1.06E-04	11875	-0.24	1.79E-08
741	0.20	7.07E-03	7827	-0.10	7.15E-04	4450	-0.10	4.28E-05	11888	-0.20	1.99E-05
742	0.10	6.81E-03	7828	-0.20	6.50E-09	4451	-0.10	1.27E-03	11890	-0.15	2.80E-08
753	-0.10	8.45E-05	7831	0.10	5.76E-03	4452	-0.10	9.18E-04	11892	-0.14	5.68E-06

754	0.10	5.56E-03	7841	0.30	3.94E-08	4458	-0.10	1.72E-07	11897	0.08	8.53E-03
760	-0.30	2.54E-07	7854	-0.30	9.83E-07	4470	0.10	1.20E-07	11898	-0.14	9.13E-06
375											
761	0.10	1.17E-03	7858	-0.10	1.05E-04	4471	-0.20	3.14E-03	11900	-0.22	2.72E-09
766	0.20	5.83E-13	7860	-0.10	9.76E-05	4472	-0.10	1.74E-05	11901	0.12	5.62E-06
769	-0.20	2.19E-09	7861	-0.10	2.48E-04	4476	-0.10	2.72E-06	11902	-0.14	1.93E-03
770	-0.20	1.23E-03	7863	0.10	2.28E-03	4477	-0.20	1.99E-08	11903	0.16	9.19E-05
776	0.20	2.43E-15	7869	-0.30	1.02E-05	4478	-0.20	1.58E-12	11918	0.12	6.65E-05
777	-0.20	2.26E-06	7871	0.10	2.76E-03	4485	-0.10	4.42E-04	11920	0.09	6.43E-03
779	-0.30	1.66E-15	7872	0.10	5.13E-03	4487	0.20	1.79E-13	11929	0.06	8.21E-03
784	-0.10	3.68E-03	7873	0.10	1.68E-04	4491	-0.10	2.64E-05	11931	0.08	7.10E-03
794	0.30	1.05E-06	7874	0.10	1.45E-04	4493	-0.10	1.56E-03	11932	-0.10	5.51E-03
801	-0.20	3.80E-06	7875	-0.20	6.34E-06	4501	0.20	1.26E-07	11935	0.11	8.20E-04
808	-0.10	7.78E-05	7876	-0.10	4.01E-04	4506	0.10	7.27E-04	11940	-0.10	6.80E-04
812	0.20	6.16E-12	7879	-0.10	1.07E-03	4512	-0.10	2.91E-03	11959	0.15	1.90E-04
829	0.20	2.59E-11	7889	-0.10	2.09E-07	4522	-0.10	5.36E-04	11961	-0.14	1.40E-07
833	-0.20	3.78E-04	7891	-0.10	1.61E-04	4523	0.10	8.38E-05	11963	0.09	1.30E-03
837	-0.10	1.47E-04	7894	0.10	8.46E-03	4524	0.20	7.24E-04	11967	-0.17	4.23E-06
840	-0.20	2.59E-09	7895	0.20	9.17E-03	4528	-0.30	1.55E-09	11972	-0.19	1.82E-03
843	0.10	2.77E-04	7899	-0.10	7.79E-04	4529	-0.20	9.63E-06	11976	-0.16	1.30E-04
844	0.10	4.40E-06	7900	-0.20	4.85E-07	4536	0.10	4.26E-06	11982	-0.17	5.45E-04
846	-0.20	7.33E-06	7906	-0.10	4.09E-05	4537	-0.20	8.40E-05	12000	-0.18	2.03E-10
847	0.10	1.11E-03	7911	-0.30	2.10E-04	4541	-0.20	5.65E-09	12022	-0.27	3.17E-07
854	-0.10	1.16E-03	7914	0.10	8.78E-08	4542	0.20	3.84E-16	12030	-0.11	2.97E-05
856	0.10	5.16E-05	7915	0.10	9.30E-04	4543	0.20	1.56E-04	12032	0.13	2.07E-05
858	-0.10	4.93E-07	7916	0.10	1.51E-05	4544	-0.10	1.52E-03	12039	0.08	2.23E-03
860	-0.10	2.44E-03	7924	0.10	6.91E-04	4550	-0.10	3.00E-03	12045	-0.22	1.79E-04
864	0.20	5.90E-08	7933	0.10	6.59E-03	4551	-0.20	7.64E-06	12062	0.15	8.61E-03
867	-0.10	5.12E-06	7939	0.20	4.03E-10	4554	0.20	1.36E-08	12063	0.10	3.01E-03
873	-0.10	8.58E-04	7940	0.10	3.05E-05	4560	-0.10	3.16E-04	12064	0.09	1.85E-03
883	0.20	1.18E-07	7942	-0.10	1.01E-05	4561	0.10	8.02E-04	12067	-0.14	5.77E-04
885	-0.20	5.96E-06	7950	-0.10	1.72E-03	4565	0.20	8.51E-05	12073	-0.19	4.61E-06
893	-0.10	2.13E-04	7951	0.10	2.15E-03	4567	-0.10	5.44E-04	12076	0.12	1.58E-05
894	-0.20	1.61E-03	7958	-0.20	4.14E-03	4568	-0.10	2.20E-04	12090	0.11	6.31E-05
896	0.10	3.57E-03	7959	-0.20	1.49E-08	4572	-0.20	4.49E-04	12091	0.14	8.62E-04
912	0.20	5.13E-05	7964	0.10	3.20E-05	4575	0.10	1.30E-03	12107	-0.12	5.06E-03
919	0.10	5.04E-03	7965	0.20	3.67E-13	4576	0.10	1.40E-06	12118	-0.14	3.39E-03
928	0.20	9.56E-12	7966	-0.20	4.71E-06	4577	-0.10	1.22E-03	12132	0.15	8.80E-09

934	-0.10	5.08E-06	7981	0.10	5.83E-03	4578	0.10	6.46E-03	12153	-0.13	8.42E-05
935	-0.10	2.89E-04	7982	0.10	3.54E-06	4581	0.20	2.95E-10	12154	-0.19	7.83E-12
936	-0.10	5.72E-04	7983	0.10	1.99E-03	4582	0.10	1.76E-03	12157	-0.13	8.23E-03
937	-0.30	2.98E-05	7987	-0.10	7.09E-03	4583	0.10	6.02E-07	12162	-0.12	2.97E-05
939	0.10	9.03E-06	7997	0.20	9.41E-06	4584	0.20	1.13E-09	12165	0.14	6.69E-03
944	-0.20	5.13E-06	8002	-0.10	3.54E-03	4586	-0.10	1.33E-03	12166	-0.23	5.83E-10
945	0.20	1.97E-13	8006	-0.10	7.71E-06	4589	0.10	1.98E-04	12168	0.13	7.01E-06
948	0.10	3.11E-04	8007	-0.30	2.89E-04	4599	0.10	2.62E-04	12170	-0.12	2.40E-04
949	-0.20	9.43E-13	8009	-0.10	5.82E-03	4602	0.30	1.78E-22	12174	-0.14	7.01E-08
951	-0.10	8.01E-04	8012	-0.20	6.72E-09	4606	-0.10	2.64E-07	12177	0.16	6.26E-06
954	0.20	1.58E-13	8013	-0.20	9.53E-05	4607	-0.10	1.47E-07	12186	0.12	2.90E-06
963	-0.20	9.64E-05	8015	0.10	7.68E-03	4608	-0.10	3.21E-04	12190	-0.12	2.22E-05
964	0.20	7.24E-05	8016	-0.10	4.42E-03	4611	0.10	4.17E-03	12194	-0.14	3.54E-03
975	0.10	1.26E-04	8018	0.10	9.08E-03	4616	-0.10	4.21E-05	12200	0.14	2.84E-07
979	0.10	1.16E-07	8022	-0.10	1.03E-03	4619	-0.20	7.64E-11	12208	0.19	7.16E-13
983	-0.20	1.05E-04	8024	-0.10	2.15E-04	4620	0.10	4.09E-05	12214	0.14	1.08E-04
984	0.10	9.18E-06	8028	-0.10	2.90E-04	4622	-0.20	1.50E-11	12215	-0.21	3.77E-06
1001	0.10	7.47E-04	8031	0.20	1.28E-04	4627	-0.20	1.54E-04	12219	-0.08	8.83E-03
1004	-0.10	1.23E-04	8032	-0.10	4.27E-04	4629	0.10	1.07E-04	12226	-0.10	7.17E-03
1009	-0.10	4.19E-03	8034	0.20	3.09E-15	4634	-0.20	3.69E-05	12228	-0.24	4.87E-06
1010	-0.10	3.95E-03	8035	0.20	3.98E-15	4644	0.10	3.77E-04	12230	0.18	2.59E-04
1012	0.20	6.77E-09	8037	-0.20	3.07E-07	4648	0.10	5.66E-03	12232	0.09	1.58E-03
1015	0.10	8.97E-03	8038	0.20	1.36E-03	4651	0.10	1.21E-05	12235	-0.14	5.13E-04
1016	-0.10	5.57E-05	8040	0.10	1.54E-03	4654	-0.20	6.85E-06	12240	0.14	2.10E-06
1021	0.10	2.64E-03	8045	0.10	2.63E-03	4664	0.10	1.08E-07	12241	-0.21	9.69E-06
1027	0.10	4.42E-03	8052	0.10	5.47E-04	4670	-0.10	6.60E-05	12242	-0.14	1.50E-07
1029	-0.10	1.26E-05	8055	0.20	1.36E-07	4671	-0.20	1.20E-06	12253	-0.09	3.19E-03
1037	-0.20	9.89E-07	8062	-0.20	3.13E-06	4675	0.10	1.07E-03	12273	-0.09	1.69E-03
376											
1043	-0.10	8.05E-06	8063	-0.20	1.02E-06	4678	0.20	7.63E-10	12275	0.18	3.69E-09
1044	-0.20	6.50E-06	8070	0.10	1.03E-07	4679	-0.20	1.02E-12	12284	0.09	2.15E-03
1045	-0.10	1.54E-03	8071	0.10	1.14E-03	4683	-0.10	7.26E-03	12286	0.18	2.12E-05
1049	-0.20	4.96E-11	8072	0.10	9.33E-04	4687	0.10	3.59E-03	12288	0.11	3.58E-04
1050	-0.10	3.66E-04	8085	-0.10	6.48E-05	4688	0.10	6.71E-04	12291	0.23	4.57E-18
1052	-0.10	7.67E-03	8086	0.10	3.98E-03	4689	-0.10	1.02E-03	12293	-0.20	1.76E-08
1056	0.20	1.11E-14	8087	-0.10	1.12E-03	4690	-0.20	4.80E-07	12294	-0.14	3.34E-03
1062	-0.10	5.65E-04	8089	0.20	5.55E-06	4691	-0.20	1.20E-10	12308	0.14	9.02E-06
1065	-0.10	1.46E-05	8093	-0.10	8.92E-04	4692	-0.10	7.97E-04	12316	-0.27	2.06E-05

1069	-0.10	8.19E-03	8094	0.10	1.12E-06	4694	-0.10	2.26E-04	12317	0.11	1.30E-04
1084	0.20	9.70E-08	8097	0.10	2.35E-04	4696	-0.10	5.21E-06	12322	0.09	2.38E-04
1087	-0.10	9.90E-04	8100	0.20	7.06E-07	4697	0.20	4.81E-03	12336	0.09	1.11E-03
1089	-0.10	1.12E-04	8102	-0.10	7.11E-03	4702	0.10	3.77E-04	12343	-0.18	5.67E-04
1090	-0.20	4.82E-03	8103	-0.10	1.03E-05	4703	0.20	3.11E-07	12344	0.15	1.57E-07
1094	0.10	3.10E-06	8105	0.20	1.71E-08	4728	0.10	8.89E-05	12353	0.08	3.92E-03
1097	-0.20	2.49E-11	8111	-0.30	3.98E-28	4732	0.10	1.32E-04	12356	-0.17	3.09E-07
1098	-0.20	2.58E-08	8117	0.10	3.95E-04	4737	-0.10	3.76E-04	12358	-0.15	6.16E-08
1099	-0.10	3.42E-05	8119	-0.10	9.96E-05	4738	-0.10	2.47E-04	12365	-0.15	5.55E-07
1100	-0.20	1.47E-06	8127	0.20	1.12E-09	4739	-0.10	1.49E-03	12368	0.09	1.99E-04
1105	-0.10	1.30E-03	8132	-0.10	6.25E-06	4740	-0.10	2.21E-03	12376	0.14	7.96E-06
1108	-0.10	2.06E-05	8133	0.10	5.10E-03	4748	0.10	7.21E-03	12378	-0.26	2.15E-03
1110	-0.20	2.30E-18	8134	0.20	6.12E-06	4753	-0.20	7.11E-11	12381	-0.09	8.70E-03
1113	-0.10	3.60E-03	8137	-0.10	1.87E-03	4757	-0.20	1.08E-08	12393	0.10	3.17E-04
1121	-0.10	9.10E-03	8142	-0.10	4.39E-04	4758	-0.10	8.18E-04	12394	0.09	6.52E-04
1123	0.10	5.62E-05	8143	-0.10	5.03E-04	4760	-0.10	8.40E-05	12401	-0.08	3.48E-03
1139	0.10	5.29E-07	8146	0.20	1.69E-10	4761	-0.10	7.16E-05	12409	0.23	2.35E-18
1140	0.20	2.38E-09	8149	0.10	6.22E-08	4763	-0.10	1.01E-06	12411	0.24	9.63E-07
1142	-0.10	5.37E-03	8150	0.20	3.43E-06	4765	-0.20	1.88E-11	12438	0.15	4.93E-04
1149	-0.10	2.70E-04	8163	-0.10	2.17E-05	4771	-0.30	2.85E-08	12443	0.15	1.49E-06
1152	0.10	3.06E-03	8168	-0.10	1.10E-05	4775	-0.20	2.79E-07	12462	0.08	3.41E-03
1161	0.10	1.15E-06	8174	0.20	3.04E-04	4780	0.10	6.65E-07	12463	-0.09	1.50E-03
1162	0.10	3.56E-03	8183	-0.10	1.17E-03	4781	0.10	5.14E-04	12465	-0.15	9.96E-04
1167	-0.10	9.89E-03	8188	0.10	1.45E-04	4786	-0.20	2.08E-07	12469	-0.24	6.46E-09
1170	-0.10	9.28E-07	8190	-0.20	5.98E-05	4787	-0.20	8.21E-05	12481	0.11	4.63E-03
1171	0.10	9.27E-04	8191	-0.10	8.76E-04	4789	-0.10	8.26E-03	12482	-0.21	8.63E-07
1176	0.10	5.13E-05	8192	0.10	1.21E-06	4796	-0.10	2.75E-03	12486	0.17	7.24E-03
1183	0.10	8.26E-04	8194	-0.20	5.14E-08	4800	-0.30	1.13E-08	12487	-0.13	6.08E-03
1187	0.10	1.10E-04	8196	-0.10	1.77E-05	4807	0.10	1.34E-04	12498	0.21	1.09E-14
1188	0.10	1.39E-04	8197	-0.20	7.50E-04	4811	0.10	5.91E-03	12499	-0.07	9.59E-03
1191	-0.10	2.07E-04	8199	0.10	4.11E-03	4816	-0.20	4.31E-03	12500	-0.13	2.34E-03
1193	0.10	6.15E-06	8219	0.10	5.94E-03	4821	-0.10	4.32E-04	12503	0.09	3.66E-03
1194	0.20	1.98E-08	8223	0.20	7.37E-03	4827	0.10	3.61E-04	12509	-0.20	3.99E-07
1195	0.10	1.12E-03	8228	0.10	1.03E-06	4831	-0.10	1.86E-05	12516	0.12	6.73E-03
1200	-0.20	1.46E-03	8230	-0.10	4.55E-03	4839	-0.10	8.28E-04	12518	0.11	3.35E-05
1212	0.10	5.33E-03	8233	-0.10	2.08E-07	4848	-0.10	3.66E-03	12519	-0.13	2.13E-05
1217	0.30	8.13E-09	8235	-0.10	1.02E-04	4849	-0.20	1.41E-11	12521	0.10	2.28E-04
1218	-0.10	7.68E-03	8240	-0.20	3.30E-09	4852	0.10	1.42E-04	12522	-0.11	2.94E-05

1229	-0.10	1.56E-03	8241	-0.10	2.82E-03	4854	-0.20	4.14E-09	12524	0.09	1.03E-03
1230	0.20	2.73E-03	8243	-0.10	5.69E-04	4859	-0.10	2.49E-06	12528	-0.12	3.33E-03
1237	-0.10	8.36E-03	8246	-0.20	1.24E-03	4863	-0.10	1.22E-06	12529	0.12	5.16E-05
1238	0.10	1.31E-04	8247	-0.10	4.00E-03	4864	-0.30	9.13E-21	12531	-0.13	2.17E-07
1239	-0.20	7.00E-07	8248	0.20	1.04E-07	4868	-0.10	4.57E-04	12536	-0.11	3.85E-04
1241	0.20	1.67E-03	8255	-0.10	8.13E-04	4869	-0.10	3.97E-04	12545	-0.21	2.95E-03
1244	0.10	1.15E-07	8259	0.10	1.39E-05	4876	0.10	7.26E-06	12546	-0.11	6.85E-05
1252	-0.10	2.28E-03	8270	0.10	5.84E-04	4880	-0.30	1.91E-05	12547	-0.09	1.34E-03
1254	-0.10	1.18E-03	8271	0.10	5.40E-04	4882	-0.10	6.07E-03	12565	0.15	2.48E-04
1256	0.10	2.22E-03	8276	-0.10	2.88E-04	4885	0.20	2.34E-07	12566	-0.09	2.57E-03
1264	0.10	3.53E-04	8286	0.30	3.79E-04	4886	0.20	1.64E-03	12577	-0.13	6.49E-06
1265	0.10	3.93E-04	8287	-0.10	1.29E-07	4887	-0.10	1.26E-03	12581	-0.09	8.36E-03
1267	0.10	2.46E-06	8289	-0.20	2.00E-16	4890	-0.20	8.50E-07	12583	-0.14	1.86E-03
1268	-0.10	6.37E-03	8290	-0.20	1.64E-07	4893	0.10	1.98E-06	12590	-0.15	1.03E-03
1272	-0.10	3.21E-03	8300	-0.10	1.10E-03	4894	-0.10	2.96E-04	12591	-0.10	3.84E-04
1276	-0.10	3.90E-03	8312	0.10	2.93E-03	4898	0.10	5.93E-04	12592	0.09	9.65E-03
377											
1281	0.10	8.63E-03	8318	-0.10	5.26E-03	4905	-0.20	1.30E-04	12597	-0.19	1.64E-10
1283	0.20	2.19E-05	8319	0.20	1.03E-09	4911	0.10	1.23E-03	12598	-0.24	3.13E-11
1287	-0.20	1.05E-10	8321	-0.20	5.23E-06	4916	-0.10	1.15E-03	12599	0.08	1.41E-03
1291	0.20	6.07E-13	8332	-0.10	1.87E-03	4920	0.10	1.54E-06	12604	-0.15	1.40E-03
1299	-0.20	7.63E-05	8336	-0.20	1.78E-09	4927	-0.10	1.80E-03	12606	-0.16	1.16E-06
1305	0.20	2.07E-08	8338	-0.10	3.08E-03	4934	0.10	2.50E-04	12609	-0.12	1.16E-04
1309	0.20	1.24E-07	8339	0.10	1.66E-04	4936	-0.10	1.15E-04	12610	-0.22	6.14E-05
1317	0.10	9.90E-03	8340	-0.10	1.67E-03	4938	0.10	3.62E-04	12611	-0.07	6.26E-03
1319	0.10	1.43E-03	8343	0.10	3.17E-04	4951	0.10	4.02E-07	12613	-0.26	7.45E-17
1320	-0.10	1.36E-05	8346	-0.20	8.75E-03	4952	0.10	2.07E-03	12615	-0.12	6.87E-06
1339	-0.20	1.03E-12	8347	-0.10	5.46E-04	4953	0.10	2.45E-03	12625	0.12	6.12E-06
1341	-0.20	5.62E-06	8351	0.10	3.72E-05	4964	-0.20	5.08E-08	12627	-0.18	2.71E-03
1347	0.10	1.90E-03	8353	-0.20	1.14E-12	4966	0.10	1.54E-05	12630	0.16	9.11E-05
1348	-0.20	4.52E-07	8358	-0.10	9.41E-04	4967	0.10	1.89E-04	12635	0.12	9.84E-03
1349	-0.10	2.22E-03	8360	0.20	1.21E-07	4970	-0.20	1.07E-04	12642	0.10	3.06E-04
1354	-0.10	7.29E-03	8367	-0.10	2.28E-07	4976	-0.20	1.09E-06	12644	-0.15	6.36E-06
1355	0.10	1.19E-06	8368	-0.10	4.19E-03	4978	-0.30	7.53E-06	12656	-0.22	6.24E-14
1364	0.20	1.13E-09	8372	-0.10	4.19E-03	4979	0.10	4.16E-03	12657	0.09	6.26E-03
1370	-0.30	9.40E-07	8383	0.20	2.03E-08	4986	-0.20	7.23E-08	12668	-0.26	1.60E-16
1373	0.10	5.83E-05	8384	-0.30	9.69E-06	4991	-0.10	2.08E-03	12673	-0.14	9.18E-06
1380	-0.30	4.23E-12	8386	0.10	3.94E-04	4996	-0.20	1.10E-07	12674	0.08	2.45E-03

1385	-0.20	1.57E-17	8387	0.10	1.93E-04	5010	-0.20	4.38E-07	12675	-0.23	5.30E-13
1389	0.20	3.26E-05	8388	-0.10	8.59E-04	5025	0.10	1.02E-07	12676	-0.13	1.08E-04
1390	-0.30	4.92E-07	8391	-0.20	2.27E-12	5026	-0.10	2.63E-03	12682	0.14	2.23E-04
1395	0.10	1.75E-04	8392	0.10	8.76E-03	5032	0.20	2.01E-03	12683	-0.18	3.24E-11
1396	-0.10	2.96E-05	8395	-0.10	5.77E-06	5037	-0.20	2.04E-14	12684	0.17	3.80E-08
1399	-0.10	1.89E-05	8397	0.20	3.31E-09	5044	-0.10	4.24E-03	12687	-0.13	2.20E-03
1401	-0.10	5.75E-05	8398	0.10	4.62E-07	5047	0.20	2.05E-03	12689	0.19	3.65E-05
1406	-0.20	5.11E-10	8402	-0.20	4.00E-07	5057	-0.20	2.10E-08	12691	0.10	6.56E-04
1409	0.10	2.46E-03	8405	0.10	9.94E-04	5060	0.10	6.93E-03	12692	0.23	2.47E-09
1410	-0.10	2.15E-06	8406	0.10	2.74E-03	5061	-0.20	6.91E-04	12699	-0.10	4.80E-03
1411	0.20	4.28E-07	8411	-0.10	4.08E-05	5063	-0.20	9.39E-05	12711	0.09	3.30E-03
1415	-0.10	5.34E-04	8412	-0.10	5.10E-05	5069	0.20	9.77E-13	12725	-0.18	1.58E-08
1421	0.10	3.61E-05	8413	0.10	9.15E-05	5070	0.10	8.75E-05	12743	0.15	2.11E-08
1429	-0.10	8.09E-05	8415	0.20	1.68E-10	5076	0.10	9.03E-05	12747	-0.13	5.19E-03
1431	0.20	2.24E-08	8418	0.10	7.47E-03	5078	-0.10	8.42E-04	12752	-0.15	4.89E-07
1434	0.20	6.28E-11	8420	0.10	8.57E-07	5086	0.20	1.55E-12	12757	0.15	1.49E-03
1436	-0.20	1.30E-09	8421	-0.30	2.42E-20	5093	-0.10	2.89E-05	12781	-0.12	1.04E-03
1439	0.20	2.56E-08	8423	-0.10	1.65E-03	5094	0.10	1.12E-03	12788	-0.20	2.81E-04
1448	-0.10	2.38E-03	8425	-0.10	2.66E-03	5095	-0.20	2.58E-06	12794	-0.18	4.75E-10
1451	0.10	9.65E-03	8427	0.10	4.57E-04	5098	0.10	1.51E-05	12798	-0.15	2.69E-08
1456	-0.10	3.84E-05	8429	0.10	5.31E-04	5101	0.10	1.09E-03	12799	0.24	3.12E-14
1459	0.10	3.51E-04	8433	-0.20	6.09E-08	5109	0.20	2.72E-07	12802	0.09	1.91E-03
1460	-0.10	4.56E-04	8434	-0.30	2.91E-07	5116	-0.10	9.25E-05	12804	-0.29	3.07E-05
1464	0.20	6.73E-14	8436	-0.10	8.47E-03	5120	-0.10	1.52E-03	12814	-0.26	4.62E-06
1468	0.10	1.44E-03	8446	-0.20	1.16E-15	5121	0.20	6.43E-07	12816	-0.21	8.02E-07
1472	-0.10	6.34E-07	8451	-0.10	1.22E-03	5124	-0.20	8.44E-08	12828	-0.16	2.41E-08
1475	-0.10	5.66E-04	8454	-0.20	4.16E-07	5128	-0.10	3.19E-03	12833	-0.14	6.46E-06
1478	0.20	1.08E-13	8460	-0.10	1.94E-03	5133	-0.20	2.42E-06	12847	-0.15	8.00E-04
1480	0.30	1.18E-04	8464	0.10	2.10E-05	5134	-0.30	6.57E-25	12850	0.18	2.38E-11
1484	-0.20	9.43E-03	8466	0.20	3.81E-07	5138	-0.10	4.90E-05	12868	-0.12	3.08E-05
1489	0.20	3.69E-04	8467	0.20	1.62E-08	5148	-0.10	4.51E-03	12871	-0.14	3.29E-03
1491	0.20	3.52E-09	8473	0.10	2.53E-05	5149	-0.20	2.74E-07	12876	-0.17	7.49E-07
1494	0.10	6.63E-03	8480	0.10	5.82E-06	5152	0.10	2.61E-03	12880	0.23	9.63E-10
1498	-0.30	4.39E-24	8481	-0.20	1.32E-03	5159	0.10	6.81E-03	12881	0.09	1.63E-03
1500	0.10	9.91E-04	8485	0.10	2.77E-05	5163	0.10	1.37E-03	12882	-0.16	1.07E-05
1501	-0.10	9.70E-03	8488	0.10	7.47E-03	5165	0.10	9.62E-03	12885	0.12	3.39E-06
1507	0.20	4.52E-04	8489	-0.10	1.93E-04	5172	-0.10	5.49E-07	12889	0.14	2.36E-06
1512	-0.20	1.92E-04	8508	-0.10	1.24E-04	5176	-0.40	7.53E-07	12897	-0.17	4.03E-06

1516	0.20	2.43E-06	8515	0.10	1.52E-03	5179	-0.20	7.14E-04	12898	-0.07	4.68E-03
1526	-0.10	1.01E-06	8529	-0.20	4.85E-04	5185	0.10	9.25E-03	12902	-0.10	9.35E-04
1529	-0.10	4.08E-04	8532	-0.10	2.54E-04	5186	0.20	2.56E-04	12905	-0.15	1.46E-05
1530	-0.10	6.52E-04	8540	0.20	1.14E-09	5204	-0.10	6.15E-03	12909	-0.09	4.05E-03
378											
1532	-0.10	1.92E-03	8548	-0.30	4.55E-06	5207	0.20	5.02E-06	12917	0.12	1.65E-05
1533	0.20	1.47E-13	8550	-0.20	1.55E-09	5212	0.10	1.25E-03	12927	-0.22	5.44E-16
1541	0.10	1.50E-04	8557	-0.20	1.03E-03	5219	0.20	3.26E-06	12929	-0.10	1.09E-03
1545	0.10	1.03E-03	8559	0.20	6.13E-17	5221	0.10	3.37E-05	12933	-0.12	2.93E-03
1550	-0.10	5.79E-04	8560	0.20	1.88E-08	5223	0.10	4.27E-05	12938	-0.18	5.70E-04
1552	0.10	4.16E-04	8561	0.10	4.26E-03	2505	-0.10	7.92E-04	9430	0.09	1.29E-03
1560	0.10	1.41E-05	8563	0.10	6.88E-04	2508	-0.10	5.34E-08	9434	-0.07	7.57E-03
1566	0.10	5.47E-04	8576	-0.20	2.53E-10	2514	-0.10	1.71E-03	9437	-0.31	3.28E-06
1571	-0.10	2.62E-04	8578	0.20	7.39E-06	2516	-0.10	1.12E-03	9445	-0.10	3.29E-03
1573	0.10	1.98E-03	8580	-0.20	1.39E-07	2518	0.10	1.04E-03	9447	-0.17	3.24E-04
1575	-0.10	4.81E-06	8585	0.10	7.52E-03	2522	-0.10	1.72E-05	9449	0.24	1.85E-06
1577	0.10	6.94E-04	8589	-0.20	1.59E-06	2523	-0.10	1.08E-05	9478	0.14	1.20E-03
1579	0.10	4.85E-03	8591	-0.10	4.40E-03	2532	-0.10	2.97E-04	9485	-0.09	2.03E-03
1581	0.20	1.30E-07	8592	-0.10	8.24E-04	2535	0.10	3.05E-03	9486	-0.20	2.21E-06
1583	-0.20	4.36E-05	8593	-0.10	6.51E-05	2540	0.10	1.58E-04	9498	-0.11	5.71E-05
1587	-0.20	3.24E-03	8596	-0.20	1.30E-07	2545	-0.10	3.75E-03	9502	0.12	1.19E-05
1588	-0.10	6.78E-07	8598	-0.10	1.78E-03	2550	-0.30	2.49E-07	9507	0.09	1.87E-03
1597	-0.10	1.31E-03	8601	-0.10	3.39E-03	2559	-0.30	6.58E-06	9508	0.16	3.19E-09
1599	0.20	2.95E-07	8603	0.20	1.86E-06	2566	0.20	2.44E-04	9510	0.10	3.41E-03
1614	0.20	7.38E-11	8607	-0.10	6.46E-04	2571	-0.10	4.55E-03	9516	0.12	3.40E-04
1615	-0.10	4.72E-03	8609	-0.10	9.33E-03	2575	0.10	6.91E-03	9529	0.10	1.44E-04
1616	0.10	1.20E-07	8610	-0.10	9.74E-03	2578	-0.20	4.42E-05	9530	-0.17	1.14E-05
1617	-0.10	8.51E-04	8612	0.10	3.03E-03	2580	0.10	2.61E-06	9531	-0.12	1.53E-05
1618	0.10	3.19E-03	8613	-0.10	3.76E-03	2582	-0.10	1.39E-05	9538	-0.11	5.81E-04
1620	-0.30	1.19E-22	8614	-0.10	2.69E-04	2583	0.10	2.45E-05	9540	-0.11	5.06E-04
1622	0.10	7.02E-06	8623	0.10	6.18E-04	2587	-0.20	2.31E-07	9541	-0.08	3.10E-03
1626	-0.10	6.16E-04	8632	-0.10	1.92E-03	2590	0.20	7.82E-04	9542	-0.17	2.65E-03
1628	-0.10	8.37E-06	8636	0.10	8.62E-03	2595	0.10	1.73E-04	9557	-0.18	1.77E-09
1629	-0.10	6.75E-06	8641	-0.10	3.79E-05	2597	0.20	5.95E-03	9558	-0.18	2.13E-09
1630	-0.10	5.29E-03	8642	-0.20	3.58E-06	2599	-0.10	2.42E-03	9566	-0.10	5.27E-04
1636	-0.20	8.92E-03	8644	-0.10	1.44E-04	2604	-0.10	2.88E-03	9575	0.11	5.14E-05
1637	0.10	8.51E-03	8645	0.20	4.34E-11	2607	-0.10	1.70E-03	9589	0.14	3.35E-05
1639	-0.10	4.41E-03	8647	-0.20	3.79E-07	2608	0.10	6.39E-06	9590	0.10	6.70E-04

1640	-0.20	1.50E-05	8648	-0.10	3.10E-03	2611	-0.20	6.72E-06	9594	-0.11	4.26E-04
1644	-0.20	1.09E-08	8650	-0.20	8.71E-08	2612	-0.20	1.31E-08	9598	-0.22	4.94E-10
1652	0.10	2.09E-06	8654	0.20	1.68E-05	2613	-0.20	3.31E-07	9605	0.09	1.19E-03
1653	0.20	1.95E-16	8658	-0.10	4.88E-03	2615	0.20	9.14E-17	9609	0.20	1.35E-08
1668	0.20	5.01E-10	8662	-0.20	8.94E-06	2617	-0.10	3.41E-04	9617	-0.17	4.22E-06
1681	0.20	7.68E-07	8663	0.10	1.08E-03	2630	0.20	1.64E-03	9618	0.26	1.09E-03
1684	0.20	8.69E-06	8666	-0.20	2.47E-03	2633	-0.20	7.04E-04	9619	0.15	4.00E-05
1686	0.10	1.60E-05	8667	-0.30	2.36E-05	2638	-0.20	7.25E-03	9626	0.21	1.63E-08
1696	-0.20	9.29E-03	8668	-0.10	1.76E-04	2640	0.20	4.08E-05	9628	-0.24	5.75E-07
1700	0.10	2.31E-03	8676	-0.20	6.33E-12	2643	-0.10	3.24E-03	9633	-0.27	1.81E-05
1705	-0.20	1.45E-06	8683	-0.20	1.61E-07	2646	0.10	5.03E-04	9635	0.13	3.31E-06
1715	-0.10	7.30E-03	8688	-0.10	1.48E-03	2647	0.20	3.24E-08	9636	-0.15	1.13E-05
1716	-0.10	6.75E-04	8689	0.10	5.84E-05	2649	-0.10	9.71E-05	9638	0.10	6.68E-04
1717	-0.20	5.05E-05	8692	-0.20	9.05E-06	2650	0.10	6.82E-04	9640	-0.09	1.03E-03
1718	0.10	3.16E-06	8693	-0.30	5.91E-18	2657	0.10	4.35E-03	9641	0.11	4.81E-04
1722	0.30	3.20E-20	8699	0.10	6.87E-08	2668	-0.20	2.40E-15	9645	0.11	4.90E-05
1729	-0.10	3.06E-05	8700	0.20	1.51E-06	2670	-0.20	7.49E-05	9646	-0.20	3.00E-12
1730	0.10	3.97E-06	8704	-0.20	7.73E-05	2673	0.10	2.65E-03	9647	-0.14	9.72E-03
1731	-0.10	5.69E-05	8705	-0.10	2.28E-03	2684	0.20	4.23E-08	9655	0.15	1.71E-07
1737	0.10	2.54E-03	8707	-0.20	2.96E-04	2688	-0.20	2.73E-11	9657	0.20	8.17E-09
1741	0.10	1.10E-03	8708	-0.20	5.23E-04	2692	0.20	2.57E-07	9660	-0.18	2.45E-10
1751	0.10	4.74E-05	8710	-0.20	2.23E-07	2693	0.20	1.54E-07	9665	-0.17	3.70E-06
1752	0.10	2.14E-05	8715	-0.20	4.08E-09	2696	0.10	5.74E-07	9670	0.09	1.41E-03
1758	0.20	3.35E-04	8720	0.10	8.66E-03	2701	0.20	7.23E-06	9671	0.10	3.50E-03
1763	0.10	3.60E-04	8724	0.10	8.48E-04	2702	-0.10	4.80E-03	9672	-0.12	4.50E-06
1764	-0.10	2.49E-04	8728	-0.30	3.13E-20	2706	0.10	8.24E-06	9680	0.16	1.25E-09
1766	-0.10	9.53E-04	8729	-0.20	5.80E-05	2707	-0.20	5.41E-15	9681	0.25	5.18E-06
1768	-0.20	2.64E-07	8732	0.20	9.45E-11	2714	-0.20	7.50E-04	9682	-0.17	2.04E-10
1776	-0.20	2.31E-12	8733	-0.10	4.79E-06	2722	-0.20	1.21E-10	9685	-0.27	4.57E-12
1777	-0.10	5.79E-03	8735	0.20	2.63E-16	2726	0.10	1.77E-04	9687	-0.08	9.11E-03
379											
1779	0.10	5.00E-03	8740	0.10	2.54E-03	2730	-0.20	1.20E-04	9688	0.13	9.45E-07
1780	0.20	3.55E-12	8744	-0.20	8.24E-15	2731	-0.20	1.96E-04	9693	-0.07	8.06E-03
1781	0.10	8.19E-04	8745	-0.10	8.88E-06	2735	0.10	3.14E-06	9694	0.18	7.87E-08
1782	0.10	9.16E-04	8747	0.10	1.37E-07	2740	0.10	8.02E-03	9695	-0.23	1.99E-05
1788	-0.10	3.86E-05	8754	0.20	4.16E-05	2743	0.20	9.70E-06	9698	0.09	5.43E-04
1790	-0.10	5.35E-12	8756	0.10	2.71E-03	2746	0.10	5.77E-03	9699	-0.17	1.69E-08
1795	-0.20	3.72E-08	8757	-0.20	1.76E-09	2752	-0.20	3.21E-07	9700	0.08	2.73E-03

1798	0.10	2.69E-03	8761	0.10	1.26E-03	2754	0.20	1.88E-11	9701	-0.11	7.85E-04
1799	0.10	2.42E-05	8764	-0.20	1.84E-04	2756	-0.20	1.95E-16	9707	-0.12	4.66E-05
1804	-0.20	4.96E-04	8767	-0.10	4.94E-04	2760	-0.10	7.76E-08	9708	-0.11	3.11E-04
1805	-0.20	2.50E-09	8769	-0.10	3.14E-03	2761	-0.20	6.14E-08	9711	-0.07	1.18E-03
1806	0.30	2.17E-04	8773	-0.20	2.33E-09	2772	-0.20	5.03E-10	9714	0.19	7.52E-12
1813	0.10	7.33E-04	8776	-0.10	4.19E-04	2773	-0.20	5.58E-04	9715	-0.14	4.18E-07
1815	-0.20	1.63E-07	8781	-0.10	1.37E-04	2781	0.20	8.32E-09	9718	-0.12	4.31E-05
1819	0.10	1.92E-04	8782	0.10	7.39E-06	2782	0.10	3.61E-03	9719	-0.10	1.43E-04
1820	-0.20	1.04E-08	8784	-0.20	4.39E-03	2789	0.10	6.51E-03	9720	-0.13	3.91E-04
1822	-0.20	1.82E-03	8785	-0.20	1.13E-03	2790	0.10	9.41E-04	9723	0.16	1.85E-03
1824	0.10	7.02E-03	8792	-0.20	8.72E-05	2791	0.10	2.77E-03	9730	-0.15	3.38E-06
1825	-0.10	8.37E-04	8793	0.10	2.82E-04	2795	0.10	4.37E-04	9732	-0.21	1.04E-05
1827	-0.10	5.93E-09	8794	-0.10	4.00E-03	2796	0.10	4.51E-05	9733	0.08	6.41E-03
1829	-0.20	4.84E-07	8800	0.10	1.50E-03	2801	0.10	1.00E-04	9734	0.13	1.11E-03
1836	-0.10	1.95E-04	8801	-0.20	2.72E-05	2802	0.10	8.02E-03	9738	-0.12	2.24E-05
1846	-0.20	4.14E-05	8805	-0.10	2.42E-07	2816	-0.30	2.75E-08	9744	-0.07	6.10E-03
1853	0.20	5.46E-04	8810	-0.10	6.60E-07	2829	-0.20	2.79E-05	9746	0.14	6.22E-04
1858	-0.10	1.61E-04	8814	-0.10	1.08E-05	2830	-0.20	2.22E-05	9747	-0.15	1.24E-03
1859	-0.10	4.06E-07	8818	-0.20	2.18E-04	2836	0.10	4.68E-03	9750	0.17	2.98E-08
1862	-0.10	3.38E-07	8820	-0.10	2.52E-05	2838	-0.10	3.43E-03	9753	0.08	7.98E-03
1864	-0.10	9.08E-03	8824	-0.30	1.26E-09	2839	-0.10	2.64E-03	9757	-0.29	2.00E-04
1865	-0.10	8.63E-03	8832	-0.10	5.00E-03	2848	-0.10	1.28E-06	9767	-0.27	4.08E-04
1867	-0.20	1.14E-05	8834	0.10	6.33E-03	2850	-0.20	1.04E-03	9768	0.15	3.14E-03
1869	0.10	1.14E-04	8839	-0.30	3.32E-11	2859	0.10	1.81E-04	9771	-0.16	1.93E-08
1871	-0.10	3.92E-06	8841	-0.10	1.15E-04	2862	-0.20	7.90E-04	9774	-0.11	4.16E-04
1876	0.10	6.11E-03	8843	-0.10	7.66E-03	2866	-0.10	9.23E-04	9779	0.18	3.27E-04
1882	0.20	4.63E-03	8847	-0.10	7.44E-03	2870	-0.20	7.53E-05	9780	-0.20	8.64E-08
1884	-0.20	1.30E-06	8848	-0.20	9.23E-14	2873	0.20	1.95E-03	9782	-0.11	2.21E-04
1889	-0.20	1.54E-08	8849	-0.20	1.79E-07	2874	-0.20	1.36E-09	9788	0.24	1.36E-06
1890	0.30	3.41E-10	8854	-0.20	1.50E-03	2880	-0.20	3.37E-03	9789	0.25	2.66E-12
1893	0.10	1.17E-03	8855	-0.10	5.19E-06	2882	0.10	2.56E-05	9801	-0.08	6.10E-04
1894	-0.10	2.67E-03	8857	0.10	1.57E-05	2885	-0.20	1.61E-03	9810	0.14	2.72E-07
1896	0.10	3.10E-06	8859	-0.10	1.06E-05	2887	-0.30	2.63E-04	9815	0.15	1.65E-07
1900	0.20	1.17E-03	8860	-0.20	2.84E-03	2888	-0.10	4.95E-03	9818	0.06	8.78E-03
1904	0.10	8.80E-03	8861	-0.10	5.04E-06	2889	0.10	4.53E-03	9819	-0.11	4.01E-05
1910	0.20	2.79E-06	8863	-0.10	1.18E-03	2890	0.10	7.17E-06	9820	0.14	1.54E-04
1922	-0.10	2.40E-06	8865	-0.10	6.13E-05	2896	-0.20	4.70E-05	9822	-0.11	1.24E-03
1926	0.10	9.43E-03	8877	-0.10	9.91E-04	2900	0.10	9.75E-05	9828	0.08	8.28E-03

1927	-0.20	1.79E-06	8888	0.10	1.34E-03	2901	-0.10	1.04E-03	9829	0.10	3.14E-03
1928	-0.20	8.05E-12	8898	-0.20	7.65E-09	2907	-0.10	2.38E-06	9837	-0.16	4.20E-05
1933	-0.10	9.65E-05	8899	-0.10	5.61E-06	2921	-0.10	2.17E-06	9838	-0.08	3.99E-03
1938	-0.10	2.10E-05	8902	0.10	3.42E-03	2927	0.10	1.81E-06	9851	-0.36	3.70E-10
1939	0.10	2.30E-05	8903	0.10	2.30E-03	2930	0.10	5.28E-03	9858	-0.10	8.85E-05
1941	0.20	2.04E-09	8904	-0.10	3.43E-03	2932	0.20	5.70E-04	9859	-0.12	4.97E-06
1942	-0.20	5.03E-05	8908	-0.20	2.17E-15	2941	-0.20	7.62E-06	9860	-0.16	1.46E-05
1948	-0.10	1.15E-03	8909	-0.20	1.82E-03	2954	-0.10	2.98E-08	9867	-0.14	3.32E-06
1956	0.20	4.80E-07	8910	0.10	5.57E-06	2955	-0.20	1.29E-04	9868	-0.27	2.89E-15
1968	0.10	1.40E-04	8911	0.10	8.93E-05	2959	-0.20	8.26E-15	9870	0.10	8.17E-04
1971	0.10	4.27E-05	8914	0.20	5.14E-06	2960	0.10	1.04E-04	9874	-0.17	6.83E-09
1974	-0.20	1.41E-09	8915	-0.10	8.32E-03	2961	-0.20	3.42E-04	9876	0.22	1.76E-14
1978	-0.10	4.72E-03	8916	-0.10	9.56E-03	2965	0.10	1.51E-03	9879	0.10	2.80E-04
1980	0.20	2.72E-06	8919	-0.10	5.61E-04	2968	-0.10	5.39E-03	9894	-0.09	1.14E-03
1981	0.30	4.97E-16	8922	-0.10	3.50E-08	2971	-0.20	7.57E-14	9899	0.10	1.66E-04
1985	-0.10	4.41E-07	8923	-0.10	6.45E-04	2974	-0.20	5.13E-07	9902	-0.14	3.00E-03
1986	-0.20	3.04E-03	8924	-0.10	5.71E-04	2995	0.20	8.22E-11	9908	0.16	4.96E-09
1988	-0.10	7.59E-03	8925	0.10	1.40E-06	2998	-0.20	3.06E-06	9913	-0.15	1.78E-06
380											
1990	-0.20	1.19E-08	8927	-0.10	4.42E-03	3003	0.20	2.62E-08	9914	-0.26	3.05E-05
1993	0.20	3.56E-08	8931	0.20	5.81E-03	3010	-0.10	3.45E-04	9917	-0.10	3.21E-03
1994	-0.10	9.20E-03	8933	-0.10	6.31E-03	3011	0.10	1.66E-03	9919	0.11	1.28E-04
1996	0.20	5.07E-07	8934	-0.10	8.23E-06	3015	0.10	2.43E-03	9921	0.12	4.63E-04
1999	0.10	7.96E-06	8938	-0.10	6.88E-03	3026	-0.10	1.51E-03	9922	-0.20	1.43E-10
2002	-0.40	1.59E-05	8944	0.10	2.36E-03	3028	0.10	5.64E-06	9927	0.22	1.25E-08
2004	0.10	9.88E-03	8954	0.10	5.73E-05	3031	0.20	6.29E-06	9928	0.13	7.73E-04
2009	-0.10	7.47E-07	8959	-0.20	3.38E-10	3033	-0.20	1.06E-04	9929	-0.17	8.44E-06
2013	0.20	7.20E-07	8960	-0.10	5.99E-04	3037	-0.20	4.19E-15	9936	0.09	2.71E-04
2018	0.10	3.06E-03	8963	-0.10	4.29E-03	3040	-0.10	6.89E-03	9942	-0.12	6.17E-03
2019	0.10	1.17E-04	8966	0.20	1.52E-06	3042	0.10	4.97E-03	9945	-0.08	4.57E-03
2020	-0.10	2.67E-03	8969	-0.10	3.38E-03	3044	-0.30	1.42E-11	9946	0.09	3.72E-03
2024	0.10	3.73E-04	8970	-0.10	3.16E-04	3048	0.10	1.56E-05	9956	0.12	6.62E-03
2026	-0.10	4.78E-03	8977	0.20	3.26E-08	3050	-0.20	3.08E-06	9957	-0.16	3.91E-07
2030	0.20	3.50E-08	8979	0.10	3.39E-04	3053	0.10	7.01E-06	9959	0.16	1.25E-09
2035	-0.10	1.03E-04	8981	-0.20	3.51E-12	3068	0.10	1.39E-05	9961	0.08	4.69E-03
2037	-0.20	3.40E-08	8985	-0.30	4.01E-05	3069	0.10	9.02E-04	9975	-0.06	8.77E-03
2038	0.30	4.64E-06	8987	-0.10	5.71E-03	3072	0.10	1.37E-03	9982	-0.13	3.46E-06
2049	0.10	1.13E-06	8994	0.10	7.75E-03	3077	0.10	9.42E-03	9987	-0.12	4.43E-05

2053	0.10	1.69E-04
2056	-0.10	2.35E-04
2057	0.10	5.12E-04
2075	-0.20	4.33E-09
2077	0.10	5.19E-06
2084	-0.10	2.58E-04
2088	0.10	1.26E-05
2089	-0.10	7.46E-03
2093	-0.10	9.09E-06
2094	-0.10	5.87E-04
2096	-0.10	7.77E-04
2105	0.10	1.24E-03
2116	-0.20	1.79E-03
2120	0.10	8.43E-04
2125	-0.20	2.12E-04
2126	0.10	1.41E-05
2128	-0.10	9.99E-03
2131	-0.10	8.67E-03
2132	-0.20	3.68E-03
2134	0.10	1.01E-04
2136	-0.10	2.19E-04
2140	-0.10	5.02E-03
2144	0.10	3.37E-03
2145	-0.20	3.60E-12
2146	-0.20	8.89E-09
2171	0.10	2.66E-06
2178	0.10	3.95E-03
2183	0.10	3.40E-04
2187	-0.10	1.99E-03
2195	-0.20	1.22E-09
2197	0.10	7.54E-03
2200	-0.30	1.45E-07
2201	0.10	2.75E-06
2203	-0.10	3.25E-03
2209	0.10	6.35E-03
2211	0.20	1.16E-11
2218	0.20	3.34E-09
2224	0.20	1.83E-13

8996	0.10	3.55E-03
9003	0.20	2.45E-09
9006	0.10	1.10E-04
9010	-0.10	6.25E-04
9011	0.20	1.61E-13
9027	-0.10	9.70E-06
9041	-0.10	1.78E-03
9043	-0.20	7.97E-05
9046	-0.10	3.95E-05
9050	-0.10	6.99E-04
9054	-0.10	2.41E-03
9055	-0.10	1.38E-03
9056	0.10	9.69E-03
9070	0.10	7.26E-03
9074	0.20	2.16E-06
9077	0.20	1.77E-07
9081	0.20	1.69E-08
9089	-0.10	8.26E-03
9098	0.10	9.72E-03
9101	0.20	1.49E-17
9102	-0.10	6.25E-03
9103	0.20	1.21E-05
9106	-0.20	1.32E-03
9108	0.10	3.66E-03
9110	-0.20	1.18E-04
9111	0.10	1.83E-03
9122	0.10	2.21E-03
9123	0.10	3.09E-06
9127	-0.10	1.32E-05
9129	0.20	1.29E-13
9134	-0.20	7.29E-03
9135	-0.10	8.03E-04
9136	-0.20	3.80E-03
9138	0.20	6.51E-20
9140	0.10	8.59E-05
9150	0.10	1.47E-04
9154	-0.10	8.59E-04
9161	0.10	2.62E-03

3079	-0.10	6.58E-06
3085	-0.10	7.81E-04
3092	0.20	3.91E-04
3100	-0.10	1.39E-03
3104	-0.10	6.52E-04
3109	0.10	3.37E-03
3112	0.10	1.15E-03
3118	-0.10	2.87E-05
3120	0.10	2.84E-03
3124	-0.20	3.68E-12
3125	-0.20	3.38E-08
3126	0.10	1.95E-03
3127	-0.10	1.93E-03
3129	0.10	7.46E-07
3131	0.10	5.07E-06
3133	0.10	5.70E-05
3142	0.10	1.37E-05
3144	-0.10	2.17E-05
3145	-0.10	1.31E-05
3149	0.20	6.78E-08
3152	0.10	2.57E-03
3153	-0.10	3.12E-05
3158	-0.10	6.12E-06
3165	-0.20	4.36E-12
3167	-0.10	4.34E-03
3170	0.10	3.48E-04
3176	0.10	4.25E-03
3177	-0.10	6.18E-04
3178	-0.10	1.73E-03
3180	-0.10	2.12E-05
3182	-0.10	1.96E-05
3183	-0.10	3.65E-04
3184	0.10	3.86E-06
3189	-0.20	2.62E-15
3190	0.20	3.65E-06
3191	-0.20	8.45E-12
3192	-0.20	1.19E-11
3196	-0.10	5.08E-04

9993	-0.11	7.67E-08
9995	0.13	1.25E-06
9998	0.13	2.92E-06
10000	-0.09	4.30E-03
10001	0.11	2.87E-04
10002	-0.15	8.06E-06
10003	-0.17	1.51E-09
10006	-0.17	4.22E-10
10011	-0.15	2.41E-08
10021	-0.10	1.10E-03
10026	-0.13	4.43E-06
10031	-0.20	3.01E-05
10033	0.11	3.24E-05
10036	-0.19	3.78E-10
10041	0.24	1.25E-06
10053	-0.21	2.78E-05
10056	0.16	1.33E-05
10061	0.13	7.26E-03
10062	-0.23	1.64E-18
10067	0.08	1.11E-04
10077	-0.09	5.64E-06
10080	-0.12	2.78E-04
10081	0.09	9.81E-04
10084	0.25	4.98E-11
10092	-0.32	3.15E-28
10094	-0.16	1.38E-03
10095	0.06	2.72E-03
10096	0.08	4.17E-03
10098	0.12	4.10E-03
10103	-0.10	9.50E-04
10107	-0.13	1.33E-05
10117	-0.13	7.77E-07
10119	-0.15	4.31E-07
10120	0.19	2.32E-04
10124	-0.11	1.77E-04
10134	-0.20	1.48E-03
10138	-0.22	1.80E-03
10139	-0.22	9.15E-17

2227	-0.20	2.76E-07	9165	0.10	2.84E-06	3199	-0.10	2.40E-03	10140	0.14	5.93E-04
2228	-0.20	7.30E-05	9166	-0.10	3.16E-07	3205	-0.20	2.00E-04	10147	0.15	7.12E-08
2229	-0.20	1.06E-06	9173	0.10	9.64E-03	3206	0.30	1.45E-06	10148	-0.11	1.03E-04
2231	0.20	1.52E-05	9174	0.20	4.70E-04	3210	0.10	6.30E-04	10153	-0.08	7.70E-03
2232	-0.20	2.79E-05	9178	-0.20	2.60E-05	3213	-0.20	5.59E-04	10157	-0.15	4.61E-08
2249	-0.10	1.03E-03	9179	-0.20	2.47E-05	3218	-0.20	6.92E-08	10160	0.18	4.85E-11
381											
2250	-0.10	7.72E-07	9183	-0.10	1.72E-05	3220	0.20	2.82E-07	10161	-0.22	5.06E-08
2251	-0.10	1.22E-03	9184	0.10	1.56E-03	3222	0.10	3.37E-03	10162	-0.17	5.65E-09
2260	-0.10	1.13E-03	9187	-0.10	2.63E-05	3227	-0.10	4.62E-04	10163	0.08	5.00E-03
2261	-0.10	1.27E-07	9191	-0.10	1.43E-05	3241	-0.20	6.58E-06	10164	-0.08	2.64E-03
2267	0.10	3.41E-04	9192	-0.20	4.55E-09	3245	0.10	5.27E-03	10174	0.16	3.37E-09
2275	-0.10	3.11E-07	9194	0.10	1.06E-03	3248	-0.20	1.67E-08	10175	0.16	3.69E-09
2284	-0.10	8.01E-06	9195	-0.20	2.20E-04	3253	0.10	3.24E-03	10176	0.10	3.16E-04
2285	-0.20	3.47E-10	9199	0.10	2.71E-04	3258	0.10	8.88E-05	10182	0.13	9.05E-04
2293	0.10	9.39E-08	9201	0.10	3.40E-03	12940	0.13	1.33E-05	13313	0.10	3.82E-04
2294	0.10	8.72E-08	9207	0.10	1.06E-03	12948	-0.22	4.25E-06	13315	-0.27	5.59E-04
2295	-0.10	2.06E-04	9208	-0.20	6.19E-04	12950	0.09	6.35E-04	13318	-0.17	6.65E-05
2298	0.10	1.94E-04	9213	0.20	1.45E-08	12952	0.09	3.93E-04	13328	0.20	8.52E-08
2300	0.20	4.02E-12	9217	0.13	3.58E-03	12963	0.08	6.47E-03	13332	-0.15	2.29E-03
2303	0.10	1.12E-05	9225	0.08	1.44E-04	12964	-0.15	1.81E-04	13352	-0.10	3.15E-03
2304	0.10	2.30E-04	9227	-0.18	1.84E-10	12989	-0.10	3.38E-04	13355	-0.12	3.73E-05
2314	0.10	6.44E-08	9228	0.11	4.23E-05	12995	0.09	1.27E-03	13363	0.10	3.73E-04
2315	0.20	1.55E-11	9229	-0.19	1.87E-05	13000	-0.19	7.40E-12	13365	-0.19	2.35E-03
2316	0.10	6.44E-06	9235	-0.13	1.11E-04	13001	-0.13	5.38E-05	13367	0.08	2.05E-03
2322	0.10	6.23E-04	9237	0.13	1.36E-06	13002	-0.15	6.28E-06	13368	-0.15	9.94E-03
2323	0.10	1.93E-08	9246	0.10	7.16E-04	13003	-0.11	9.22E-04	13372	-0.10	3.41E-04
2324	-0.20	5.65E-13	9248	0.14	9.52E-06	13007	0.19	4.51E-05	13382	0.17	2.83E-05
2325	-0.10	7.17E-06	9257	0.13	7.78E-03	13010	0.08	3.03E-03	13394	-0.10	8.88E-03
2328	0.10	3.96E-05	9258	-0.14	2.75E-05	13020	0.12	1.16E-05	13407	0.08	3.47E-03
2335	-0.20	2.43E-11	9260	-0.20	2.23E-12	13031	-0.23	1.01E-04	13415	0.12	9.14E-03
2338	0.20	7.01E-08	9265	0.18	3.55E-04	13043	0.09	3.12E-04	13434	0.10	1.08E-03
2345	-0.10	3.46E-03	9269	-0.14	5.08E-07	13051	0.13	8.07E-07	13472	-0.13	2.53E-03
2354	-0.20	1.62E-03	9276	-0.14	7.38E-05	13070	-0.17	8.17E-03	13479	0.09	1.82E-03
2360	-0.20	9.78E-08	9280	0.12	1.62E-05	13075	0.09	4.99E-04	13485	0.18	2.50E-05
2369	-0.10	1.16E-06	9281	-0.23	1.78E-15	13077	-0.15	6.81E-05	13486	0.10	5.00E-03
2371	-0.20	8.09E-07	9288	-0.08	3.82E-03	13083	-0.10	1.75E-03	13491	-0.29	1.88E-04
2373	-0.30	2.06E-09	9289	-0.20	3.71E-05	13086	-0.23	3.39E-03	13495	0.14	7.21E-07

2379	0.10	2.45E-03	9290	-0.16	4.86E-09	13089	-0.12	1.29E-03	13517	-0.16	9.26E-05
2388	-0.10	3.48E-07	9293	-0.10	8.09E-04	13091	0.12	1.16E-04	13519	0.15	6.49E-04
2389	-0.20	1.69E-14	9294	-0.09	8.21E-04	13097	0.09	1.65E-03	13523	0.15	7.55E-06
2393	-0.10	3.44E-05	9304	-0.08	5.62E-03	13107	-0.14	4.25E-06	13527	-0.23	8.35E-17
2394	-0.10	8.26E-03	9307	0.17	1.59E-06	13108	0.15	5.51E-07	13538	-0.16	1.37E-07
2400	0.20	9.00E-14	9311	-0.08	8.09E-03	13109	0.11	1.62E-04	13540	-0.29	6.50E-04
2405	0.10	9.93E-07	9319	0.07	6.44E-03	13111	0.08	5.79E-03	13542	-0.09	9.82E-03
2406	0.30	9.23E-22	9324	-0.22	5.24E-03	13123	-0.14	1.74E-03	13546	-0.09	8.12E-03
2408	0.10	1.07E-05	9325	-0.13	3.98E-03	13126	-0.19	2.77E-11	13565	-0.18	2.23E-10
2413	0.10	3.02E-06	9327	-0.15	5.54E-04	13128	-0.22	4.21E-06	13567	-0.08	4.54E-03
2414	0.10	3.18E-06	9329	-0.12	1.36E-05	13132	0.15	3.50E-08	13578	0.16	6.59E-09
2415	-0.20	4.06E-03	9332	-0.13	1.18E-05	13139	0.24	3.15E-13	13580	-0.14	2.88E-03
2416	-0.10	3.38E-04	9341	-0.14	3.59E-07	13142	-0.15	2.74E-04	13583	0.10	1.03E-03
2418	-0.10	3.45E-05	9342	-0.30	3.56E-15	13143	0.21	3.22E-10	13592	-0.19	3.19E-03
2422	-0.10	5.14E-03	9347	-0.14	3.45E-07	13149	0.09	5.55E-03	13608	0.14	2.56E-07
2423	0.10	4.27E-03	9349	-0.12	2.61E-03	13161	-0.23	8.02E-18	13609	0.18	4.79E-09
2424	-0.20	1.68E-07	9352	0.09	2.50E-03	13174	-0.11	4.26E-03	13611	-0.14	6.47E-07
2425	-0.10	2.83E-05	9353	0.09	3.04E-03	13178	0.07	6.29E-03	13626	-0.22	7.50E-03
2426	-0.10	1.87E-05	9355	0.19	9.72E-12	13184	-0.20	1.07E-08	13629	0.16	1.27E-09
2427	-0.10	3.02E-03	9356	-0.12	4.22E-05	13188	-0.09	9.32E-03	13635	-0.09	9.81E-04
2430	-0.20	2.82E-04	9357	-0.12	5.50E-05	13191	-0.18	5.71E-06	13637	-0.09	4.95E-03
2432	0.10	1.86E-03	9360	-0.11	3.68E-03	13199	-0.22	3.00E-11	13656	-0.10	5.53E-06
2437	-0.20	2.85E-12	9361	0.15	7.01E-08	13211	-0.19	1.31E-03	13663	-0.09	7.88E-04
2442	0.10	8.87E-03	9367	-0.13	8.83E-04	13212	0.15	1.08E-07	13668	0.13	1.36E-03
2446	0.20	1.84E-15	9368	0.26	6.92E-21	13214	0.07	9.84E-03	13702	-0.19	1.76E-09
2448	0.10	4.72E-06	9371	-0.14	2.31E-05	13230	-0.12	1.28E-05	13706	0.18	1.93E-05
2452	0.30	1.50E-07	9373	0.32	1.48E-25	13243	0.18	1.42E-05	13707	-0.23	1.39E-05
2453	-0.20	8.16E-10	9376	0.12	8.98E-04	13254	0.11	8.68E-05	13710	0.07	9.10E-03
2461	-0.20	4.60E-04	9378	0.11	2.62E-04	13255	-0.09	1.28E-03	13712	-0.13	1.31E-05
2463	0.20	1.34E-03	9379	0.15	5.94E-05	13258	-0.12	7.68E-03	13724	-0.09	6.73E-04
2465	-0.10	5.07E-08	9383	-0.19	1.82E-11	13264	-0.15	3.32E-08	13740	0.11	6.30E-05
2466	-0.30	5.44E-22	9390	-0.16	1.10E-03	13276	0.12	2.52E-05	13743	-0.13	3.57E-03
382											
2470	-0.20	1.12E-05	9393	0.08	6.74E-03	13279	-0.22	3.54E-04	13747	-0.07	4.91E-03
2472	-0.10	1.11E-03	9397	-0.14	2.22E-05	13281	-0.14	7.59E-05	13763	-0.11	9.81E-03
2473	-0.20	5.73E-05	9402	-0.13	2.04E-05	13292	0.25	6.26E-09	13769	-0.27	1.26E-05
2476	0.10	9.57E-04	9404	-0.09	1.76E-03	13295	0.11	3.66E-03	13772	0.13	3.59E-06
2486	0.10	2.86E-03	9406	-0.08	1.35E-05	13296	0.18	3.86E-07	13777	0.17	1.20E-05

2489	0.20	4.22E-07	9410	0.09	8.67E-04	13297	0.14	3.93E-03	13783	-0.21	8.91E-14
2491	0.20	3.97E-08	9421	-0.19	2.33E-06	13302	0.08	4.70E-03	13791	0.11	2.59E-05
2494	0.10	2.00E-03	9423	-0.09	3.27E-03	13303	0.10	1.06E-03	13793	-0.12	1.06E-04
2501	-0.10	1.30E-07	9424	-0.21	1.80E-10	13305	-0.22	6.98E-09	13795	0.14	1.10E-06
14307	0.15	4.61E-08	14756	0.12	1.56E-05	15283	0.08	7.87E-03	10416	0.08	5.00E-02
14313	0.11	8.03E-05	14773	-0.14	3.10E-06	15291	0.19	5.51E-09	10652	0.34	5.00E-02
14330	-0.14	2.00E-07	14777	-0.14	3.92E-06	15302	0.12	2.52E-04	10665	0.17	5.00E-02
14342	0.14	5.95E-04	14783	0.20	3.06E-14	15309	0.12	8.75E-06	10922	-0.16	5.00E-02
14364	-0.13	1.41E-07	14790	-0.17	3.44E-04	15321	-0.11	1.25E-03	11319	-0.19	5.00E-02
14380	0.12	3.60E-05	14800	-0.09	1.58E-03	15327	-0.17	2.36E-04	11357	0.12	5.00E-02
14381	-0.21	2.65E-07	14801	-0.17	4.34E-09	15331	-0.17	1.18E-07	11483	0.42	5.00E-02
14390	0.12	1.32E-03	14806	-0.27	1.47E-06	15333	0.14	3.22E-07	11660	-0.03	5.00E-02
14391	0.11	8.43E-05	14817	-0.28	9.02E-13	15337	0.09	4.06E-03	11761	-0.19	5.00E-02
14397	0.13	9.58E-06	14818	-0.09	9.63E-04	15339	-0.13	3.48E-03	12057	0.48	5.00E-02
14406	-0.15	3.69E-04	14838	-0.21	2.22E-03	15348	-0.07	7.28E-03	12217	0.24	5.00E-02
14414	0.06	1.09E-03	14839	-0.18	3.67E-10	15351	0.08	7.22E-03	12507	-0.03	5.00E-02
14424	-0.12	6.32E-03	14841	-0.13	6.69E-06	15359	0.11	1.23E-04	12555	-0.50	5.00E-02
14430	0.13	3.22E-06	14844	0.23	2.57E-05	15368	-0.19	6.31E-10	12672	0.04	5.00E-02
14436	0.09	2.82E-03	14860	0.13	3.42E-06	15375	-0.09	4.86E-03	12841	0.22	5.00E-02
14441	0.15	2.34E-08	14861	0.12	8.35E-03	28	-0.04	5.00E-02	12890	-0.07	5.00E-02
14448	-0.20	6.53E-09	14866	-0.08	9.00E-03	254	0.03	5.00E-02	12955	-0.26	5.00E-02
14451	0.24	8.01E-12	14872	-0.21	3.91E-03	434	0.05	5.00E-02	13237	0.12	5.00E-02
14476	0.10	6.74E-03	14886	0.12	5.75E-06	775	0.04	5.00E-02	13585	0.12	5.00E-02
14478	-0.09	3.64E-03	14899	0.18	5.80E-07	877	0.24	5.00E-02	13650	-0.26	5.00E-02
14479	-0.14	1.25E-05	14904	0.12	1.56E-05	1000	-0.04	5.00E-02	13933	0.19	5.00E-02
14484	0.16	2.77E-09	14915	0.18	1.07E-10	1220	-0.05	5.00E-02	14012	0.21	5.00E-02
14498	-0.19	6.63E-07	14937	0.07	6.33E-03	1271	0.04	5.00E-02	14075	0.04	5.00E-02
14502	-0.18	8.51E-05	14938	0.24	2.32E-04	1769	0.45	5.00E-02	14345	0.15	5.00E-02
14504	-0.24	3.74E-06	14948	0.10	5.64E-04	1783	0.03	5.00E-02	14726	0.23	5.00E-02
14506	0.11	1.73E-04	14953	-0.16	5.89E-08	2258	-0.13	5.00E-02	14847	0.23	5.00E-02
14507	0.16	1.83E-08	14966	-0.15	1.34E-08	2305	0.03	5.00E-02	15144	0.12	5.00E-02
14508	-0.14	8.29E-07	14971	-0.23	1.08E-05	2869	0.31	5.00E-02	15247	0.08	5.00E-02
14514	-0.09	7.83E-04	14974	-0.15	2.22E-06	2906	-0.06	5.00E-02	15273	0.08	5.00E-02
14523	0.21	1.37E-14	14983	-0.25	1.82E-07	3090	-0.15	5.00E-02	15288	0.20	5.00E-02
14524	-0.20	2.40E-06	14989	-0.18	6.06E-04	3273	-0.04	5.00E-02	15317	0.06	5.00E-02
14525	-0.24	2.06E-04	14999	-0.26	5.19E-04	3691	-0.12	5.00E-02	15364	0.04	5.00E-02
14533	-0.12	1.11E-04	15003	-0.10	4.86E-04	3717	0.07	5.00E-02	10454	0.14	1.11E-07
14544	0.17	1.24E-05	15008	-0.23	4.80E-12	3960	-0.04	5.00E-02	10456	-0.11	3.62E-03

14560	-0.10	7.58E-03	15012	-0.31	2.69E-04	4465	-0.03	5.00E-02	10462	0.16	9.81E-08
14582	0.23	3.59E-16	15016	0.14	1.89E-04	4759	0.05	5.00E-02	10474	-0.19	9.87E-08
14592	-0.12	1.05E-03	15018	-0.15	1.10E-07	4806	0.04	5.00E-02	10478	0.22	6.96E-05
14602	-0.10	1.29E-05	15022	-0.09	2.39E-03	5233	-0.06	5.00E-02	10480	-0.20	1.18E-09
14612	-0.14	3.39E-07	15033	-0.16	1.70E-04	5357	0.04	5.00E-02	10481	0.09	1.84E-03
14615	-0.15	7.05E-08	15042	-0.17	1.44E-05	5773	-0.13	5.00E-02	10485	-0.09	3.39E-03
14616	-0.27	8.52E-09	15047	-0.08	7.22E-03	6042	-0.09	5.00E-02	10487	-0.09	3.97E-03
14623	0.12	6.31E-04	15060	-0.27	5.25E-23	6155	0.04	5.00E-02	10488	0.10	1.70E-03
14625	-0.10	4.94E-04	15062	-0.26	1.32E-05	6255	0.04	5.00E-02	10490	-0.15	1.22E-06
14626	-0.14	1.78E-07	15086	-0.19	6.39E-11	6283	0.05	5.00E-02	10494	0.18	1.38E-13
14628	-0.16	4.37E-11	15088	0.16	9.87E-07	6514	-0.10	5.00E-02	10498	-0.14	4.75E-03
14629	0.10	2.69E-03	15104	0.15	1.04E-07	6622	0.11	5.00E-02	10503	0.15	2.69E-07
14631	-0.08	1.81E-03	15110	-0.15	3.03E-07	7385	0.04	5.00E-02	10507	-0.09	1.41E-03
14649	0.08	7.87E-03	15128	0.16	6.40E-08	7480	-0.07	5.00E-02	10509	-0.09	3.71E-03
14651	0.16	7.54E-09	15133	-0.22	3.82E-03	7764	0.07	5.00E-02	10516	-0.16	4.95E-07
14661	-0.09	3.04E-03	15162	-0.11	8.11E-05	7887	0.08	5.00E-02	10520	-0.32	1.36E-08
14663	0.12	1.19E-03	15164	0.09	1.35E-03	7944	-0.06	5.00E-02	10524	-0.11	9.65E-05
14668	-0.20	8.34E-07	15184	-0.27	3.55E-23	8017	-0.04	5.00E-02	10537	-0.09	1.88E-03
14695	-0.18	3.53E-10	15206	0.14	4.12E-07	8019	0.13	5.00E-02	10545	0.12	3.02E-04
14699	0.11	7.84E-05	15209	-0.21	8.83E-14	8583	-0.12	5.00E-02	10548	0.09	2.01E-03
383											
14700	-0.20	2.45E-13	15211	-0.14	1.07E-05	8657	0.10	5.00E-02	10561	-0.13	6.74E-04
14704	0.15	4.94E-04	15215	0.07	8.70E-03	8891	0.04	5.00E-02	10563	-0.16	1.22E-04
14705	-0.19	2.82E-09	15237	-0.13	3.06E-03	9163	-0.05	5.00E-02	10569	0.08	4.70E-03
14708	-0.10	8.90E-04	15238	-0.09	5.54E-03	9340	0.05	5.00E-02	10570	-0.19	2.40E-10
14724	-0.11	1.20E-04	15239	0.23	1.57E-10	9579	0.29	5.00E-02	10577	-0.28	3.44E-09
14725	-0.10	3.07E-04	15243	-0.21	2.84E-07	9600	0.05	5.00E-02	10584	-0.15	7.11E-08
14734	-0.09	1.24E-03	15244	-0.24	3.28E-06	9653	0.07	5.00E-02	10586	-0.19	4.85E-05
14736	-0.12	9.95E-03	15245	0.10	7.12E-04	9745	0.04	5.00E-02	10590	-0.14	5.34E-07
14738	-0.16	3.55E-03	15250	0.09	8.26E-03	10072	0.13	5.00E-02	10597	-0.12	5.49E-06
14739	0.19	1.24E-12	15260	-0.20	4.53E-10	10137	-0.25	5.00E-02	10599	-0.15	1.66E-04
3407	0.10	1.73E-05	3687	-0.20	1.49E-03	3676	-0.20	1.91E-06	3557	-0.20	2.52E-03
3408	-0.10	1.47E-04	3690	0.10	9.16E-03	3683	-0.20	8.03E-16	3558	-0.30	1.02E-28
3417	0.10	7.68E-03	3695	-0.10	1.11E-03	3588	-0.10	2.58E-03	3559	-0.30	5.97E-06
3418	0.10	2.20E-04	3696	-0.10	8.59E-05	3593	-0.20	1.87E-10	3568	0.10	3.64E-06
3419	0.10	6.59E-03	3703	0.10	3.84E-03	3594	0.10	6.70E-03	3569	0.10	2.99E-05
3420	0.10	4.64E-04	3706	-0.20	1.80E-09	3595	-0.20	4.08E-04	3574	-0.10	3.02E-04
3423	0.10	7.50E-03	3713	0.10	2.20E-04	3599	0.20	6.40E-06	3575	-0.20	8.54E-03

3424	0.20	1.11E-04	3714	-0.10	5.20E-03	3602	0.10	3.49E-03	3579	0.10	1.49E-06
3438	-0.10	1.45E-03	3715	0.10	1.30E-03	3613	0.10	3.92E-04	3582	-0.20	2.59E-08
3439	-0.20	4.47E-04	3716	0.10	8.06E-04	3614	-0.10	1.99E-04	3506	-0.20	9.53E-05
3446	0.10	1.93E-03	3726	0.10	1.99E-06	3649	0.10	4.94E-04	3510	-0.20	4.15E-10
3455	-0.10	1.42E-04	3728	0.10	2.78E-03	3656	-0.10	2.21E-04	3511	0.10	1.54E-04
3465	0.20	5.00E-07	3729	-0.20	1.28E-07	3658	0.20	1.65E-08	3514	-0.10	2.59E-05
3466	0.10	1.43E-06	3731	0.10	2.98E-04	3661	-0.10	5.52E-06	3523	0.10	3.71E-05
3467	0.20	6.76E-12	3732	0.10	6.12E-05	3667	0.10	3.91E-03	3531	0.10	1.62E-04
3468	0.20	3.82E-11	3735	-0.10	2.19E-03	3668	0.10	7.85E-04	3539	0.10	3.56E-04
3483	-0.10	5.01E-03	3740	-0.20	2.61E-10	3671	-0.10	8.53E-04	3548	-0.30	3.48E-09
3485	-0.20	5.14E-15	3745	0.10	5.26E-06	3673	0.20	5.87E-05	3550	0.10	1.92E-04
3489	0.10	7.08E-06	3749	-0.10	2.54E-05	3498	0.10	7.09E-03	3554	0.10	1.88E-04
3490	0.10	4.79E-03	3750	-0.10	8.07E-03	3503	-0.10	3.80E-03	3753	-0.20	1.03E-07
3491	0.20	1.44E-17	3751	-0.10	5.60E-03	3752	-0.10	6.19E-06			

A	B	C
5226	0.10	4.29E-03
5229	-0.10	8.42E-03
5230	0.20	9.32E-16
5235	-0.10	1.32E-05
5239	-0.10	3.53E-04
5242	0.10	1.13E-04
5247	0.10	2.77E-05
5249	-0.10	3.40E-05
5253	0.10	1.53E-04
5255	0.10	2.97E-03
5257	0.10	4.08E-03
5261	-0.20	1.71E-09
5273	-0.10	1.10E-03
5274	-0.10	8.55E-04
5275	-0.10	3.61E-06
5279	-0.10	6.30E-04
5285	-0.20	4.68E-07
5288	-0.20	3.80E-03
5293	-0.20	1.07E-03
5295	-0.20	2.25E-05
5298	-0.10	7.32E-03
5302	-0.10	1.95E-05
5307	0.10	4.04E-03
5308	-0.10	9.25E-06
5316	0.10	1.49E-04
5317	0.20	2.77E-11
5320	0.20	3.84E-07
5323	-0.20	4.38E-11
5326	-0.10	1.90E-04
5329	-0.30	1.47E-08
5330	0.10	4.53E-03
5331	-0.20	2.20E-07
5338	0.10	1.37E-03
5339	0.10	3.67E-03
5344	0.20	3.11E-13

5345	0.20	9.37E-09
5348	0.10	2.37E-03
5353	0.20	3.50E-12
5366	0.10	3.30E-05
5367	-0.10	4.24E-04
5379	-0.10	1.44E-05
5381	0.20	5.65E-13
5384	0.10	4.17E-03
5397	0.10	1.60E-04
5398	-0.10	2.95E-03
5399	-0.20	7.18E-08
5401	0.20	1.13E-08
5402	-0.10	2.60E-07
5414	-0.20	2.90E-18
5417	-0.10	1.68E-03
5418	0.10	1.82E-03
5422	0.10	1.11E-03
5429	0.10	7.66E-04
5431	-0.20	2.32E-03
5432	0.20	1.92E-10
5435	0.10	1.53E-03
5453	-0.20	2.23E-05
5454	-0.10	1.74E-03
5463	-0.10	7.62E-05
5465	0.10	8.13E-03
5470	-0.20	8.08E-08
5473	-0.10	1.37E-06
5475	0.10	6.99E-03
5480	0.10	1.53E-04
5483	0.10	3.61E-04
5485	-0.20	7.74E-04
5486	-0.20	7.78E-04
5491	0.10	3.87E-05
5493	-0.10	3.38E-04
5499	0.10	1.27E-03
5501	0.10	8.41E-08
5502	0.20	7.92E-08

5505	-0.20	1.33E-06
5511	-0.10	2.65E-06
5513	-0.20	5.87E-07
5520	0.10	9.51E-05
5522	-0.20	5.04E-09
5527	0.10	2.62E-04
5535	-0.10	3.44E-03
5536	-0.10	5.15E-04
5537	-0.10	9.76E-03
5545	0.10	9.33E-03
5552	-0.10	1.74E-04
5555	-0.10	8.80E-03
5557	-0.10	2.67E-03
5558	-0.10	2.42E-03
5567	-0.10	3.85E-03
5570	0.20	3.91E-10
5572	0.10	9.19E-03
5574	-0.10	1.71E-05
5575	0.10	8.66E-05
5578	0.20	8.38E-06
5579	-0.10	3.33E-05
5580	-0.10	1.55E-04
5583	-0.20	3.87E-04
5590	0.10	2.02E-05
5592	0.10	4.30E-04
5593	-0.20	2.50E-07
5596	-0.10	7.23E-03
5597	-0.10	7.94E-03
5599	-0.10	5.00E-03
5602	-0.20	6.51E-09
5605	-0.20	6.82E-05
5606	-0.20	9.18E-05
5608	-0.20	8.05E-14
5611	-0.10	2.24E-05
5616	-0.10	1.14E-03
5619	0.10	2.82E-06
5623	0.20	6.67E-11
5624	-0.10	1.88E-03

5625	-0.20	3.66E-05
5626	0.10	1.05E-04
5627	0.10	1.18E-03
5634	-0.10	2.41E-05
5635	-0.10	1.90E-05
5639	-0.10	7.42E-04
5643	-0.10	7.38E-03
5647	-0.10	3.22E-04
5648	-0.10	1.92E-03
5663	0.20	2.11E-03
5670	0.20	2.47E-11
5674	-0.20	2.76E-08
5677	0.10	1.91E-06
5678	0.10	1.85E-04
5680	-0.20	2.87E-06
5682	0.10	1.91E-03
5684	0.30	1.30E-05
5691	0.10	1.10E-06
5693	-0.10	1.77E-07
5695	0.20	5.33E-03
5703	0.20	3.42E-12
5707	-0.20	2.06E-06
5708	-0.20	1.22E-05
5711	-0.10	2.55E-05
5713	0.20	1.69E-08
5714	0.10	7.84E-04
5715	-0.20	1.71E-08
5723	-0.20	8.17E-04
5729	0.10	5.74E-03
5741	-0.10	1.95E-05
5742	-0.10	1.23E-05
5752	0.20	1.63E-08
5753	-0.20	1.87E-04
5754	0.20	3.77E-13
5763	0.30	4.59E-06
5768	-0.10	4.10E-04
5774	-0.30	7.03E-06

5781	0.10	5.59E-03
5784	-0.10	1.56E-04
5785	-0.30	3.74E-09
5787	-0.10	9.74E-03
5791	-0.10	1.81E-07
5796	-0.10	5.32E-05
5798	-0.10	4.46E-05
5806	-0.30	4.47E-09
5807	0.20	6.77E-09
5808	0.20	6.25E-04
5815	-0.10	6.11E-03
5816	-0.20	1.32E-03
5817	-0.10	5.58E-03
5819	-0.10	1.46E-03
5821	-0.20	4.69E-11
5825	-0.10	1.77E-04
5835	0.20	6.33E-11
5838	-0.20	3.90E-10
5839	-0.20	4.83E-03
5840	0.10	1.43E-03
5841	0.20	7.23E-10
5845	-0.10	9.54E-03
5846	0.10	8.84E-04
5854	0.20	1.27E-03
5856	0.10	1.08E-03
5857	0.10	7.95E-05
5859	-0.10	3.59E-03
5860	-0.20	6.95E-04
5868	0.20	6.56E-10
5870	0.10	5.62E-03
5871	0.10	6.68E-05
5872	0.20	2.77E-05
5873	-0.10	1.02E-03
5875	-0.10	2.31E-03
5883	-0.10	3.73E-03
5884	-0.10	1.70E-04
5887	-0.30	2.82E-08
5897	-0.20	1.54E-15

5898	-0.10	2.02E-03
5902	-0.10	1.07E-04
5906	0.10	5.55E-03
5914	0.20	4.80E-08
5918	-0.10	3.86E-05
5921	-0.10	9.74E-04
5922	-0.20	9.87E-04
5923	0.10	3.02E-03
5924	-0.10	4.71E-03
5929	-0.10	7.65E-03
5930	-0.20	6.20E-12
5933	-0.20	5.78E-04
5937	0.20	1.71E-07
5942	0.10	1.73E-03
5946	-0.10	2.54E-04
5951	-0.10	6.69E-07
5952	-0.10	6.38E-05
5953	-0.10	3.58E-05
5966	0.10	2.85E-04
5968	-0.10	1.31E-05
5970	0.10	3.12E-07
5971	0.20	1.28E-17
5973	0.10	1.84E-06
5975	0.10	6.32E-04
5978	-0.10	7.29E-04
5989	0.10	9.10E-03
5990	-0.20	4.47E-10
5992	-0.10	4.42E-06
5993	-0.10	9.52E-03
5998	-0.10	8.83E-04
6006	-0.10	1.97E-04
6008	-0.10	2.86E-04
6013	-0.20	2.17E-03
6016	-0.10	5.78E-07
6020	0.10	4.89E-05
6021	0.10	5.16E-05
6025	-0.20	1.69E-03

6033	-0.20	2.75E-05
6035	0.10	3.36E-05
6036	-0.10	6.07E-06
6040	0.10	9.57E-08
6052	-0.10	3.62E-04
6066	0.20	3.68E-10
6068	0.10	8.13E-08
6071	0.10	1.95E-04
6083	-0.10	8.64E-03
6086	-0.10	7.31E-04
6091	0.20	6.08E-05
6096	0.20	7.93E-04
6100	0.10	4.03E-03
6101	0.10	4.04E-03
6102	-0.10	4.33E-07
6103	-0.20	4.62E-10
6111	-0.20	6.53E-07
6112	-0.20	4.88E-13
6117	-0.20	4.68E-10
6118	0.10	4.18E-05
6124	0.10	2.81E-04
6134	-0.20	5.13E-09
6135	-0.20	4.84E-05
6141	0.20	1.05E-13
6143	-0.10	3.05E-05
6147	-0.10	6.56E-03
6148	-0.20	7.75E-03
6167	-0.10	3.86E-03
6168	-0.10	8.66E-04
6175	0.10	1.15E-03
6183	0.30	1.22E-04
6186	0.10	4.59E-04
6192	0.10	9.24E-03
6194	0.20	7.53E-03
6195	-0.10	6.11E-04
6196	-0.10	1.72E-04
6197	0.20	4.69E-10

6198	0.20	3.68E-10
6200	0.20	6.25E-09
6201	-0.10	4.61E-04
6204	-0.20	2.68E-06
6206	0.20	8.15E-04
6212	0.20	1.04E-08
6214	0.10	7.82E-05
6221	0.10	2.29E-03
6229	-0.10	5.54E-03
6233	-0.10	5.73E-03
6235	-0.10	7.86E-03
6238	0.10	1.31E-06
6239	-0.10	1.94E-06
6241	0.10	2.69E-05
6245	0.20	1.39E-09
6246	-0.20	5.79E-14
6248	-0.20	1.03E-04
6249	0.20	2.74E-13
6250	-0.10	3.96E-04
6253	-0.20	5.37E-14
6257	-0.20	9.61E-04
6258	-0.10	3.43E-04
6261	0.10	7.16E-12
6267	-0.20	3.39E-05
6272	-0.10	3.20E-04
6276	-0.20	3.31E-03
6284	0.10	2.27E-03
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6294	-0.10	3.55E-03
6303	0.10	2.10E-07
6304	0.20	7.46E-08
6305	0.20	3.73E-07
6307	-0.10	3.28E-04
6310	0.20	2.65E-10
6318	-0.10	3.03E-06
6319	0.20	3.93E-04
6330	-0.20	1.36E-06
6333	0.10	8.38E-03

6337	-0.20	9.52E-09
6339	-0.10	5.05E-03
6340	-0.10	1.68E-04
6343	0.10	4.44E-03
6346	-0.20	3.42E-04
6351	-0.20	3.22E-11
6352	-0.30	9.10E-07
6356	0.10	2.95E-05
6359	-0.10	2.99E-03
6360	-0.20	3.55E-04
6361	0.10	1.30E-04
6365	-0.20	5.26E-15
6366	-0.10	1.17E-04
6373	0.10	2.70E-06
6375	0.10	2.29E-03
6376	0.10	6.70E-04
6381	0.10	8.40E-08
6382	-0.10	9.12E-03
6388	-0.20	1.21E-05
6398	-0.20	6.10E-09
6402	-0.20	2.81E-04
6404	0.10	8.86E-03
6405	0.10	1.89E-05
6406	0.20	1.97E-07
6411	-0.10	8.95E-05
6412	0.10	1.96E-05
6415	-0.10	3.74E-03
6417	0.10	3.33E-06
6420	-0.10	4.98E-06
6431	-0.40	8.42E-06
6432	-0.10	6.51E-03
6436	0.10	5.47E-06
6438	0.10	2.48E-03
6439	0.20	6.10E-08
6441	0.20	2.12E-03
6454	-0.10	5.68E-05
6460	-0.10	7.22E-03

6461	-0.10	4.20E-03
6467	0.10	3.32E-03
6468	-0.20	6.21E-09
6473	-0.10	3.11E-03
6474	0.10	1.58E-05
6476	-0.20	1.16E-03
6478	0.10	2.91E-04
6483	-0.10	3.94E-03
6485	-0.10	1.22E-04
6486	0.10	6.38E-04
6487	0.10	1.58E-03
6491	-0.10	7.72E-03
6493	-0.20	6.23E-04
6498	-0.10	2.27E-04
6505	-0.10	8.16E-03
6509	-0.10	6.07E-04
6512	-0.10	9.87E-03
6515	0.10	2.17E-03
6520	0.10	3.09E-04
6522	0.10	2.72E-04
6523	-0.20	5.86E-17
6528	0.10	4.88E-06
6531	0.10	3.92E-03
6535	-0.10	2.32E-04
6540	-0.10	6.87E-04
6544	0.10	3.84E-05
6548	-0.10	2.74E-07
6549	-0.10	1.30E-03
6550	-0.10	1.25E-03
6551	-0.30	2.23E-07
6555	0.10	5.27E-04
6566	-0.20	5.77E-04
6568	-0.10	7.63E-05
6571	-0.20	2.53E-05
6576	0.10	9.90E-03
6577	0.10	2.89E-04
6578	-0.30	1.53E-04
6580	-0.10	7.39E-04

6582	0.10	7.36E-04
6583	-0.10	9.26E-04
6584	-0.10	1.08E-03
6587	0.10	2.50E-07
6599	0.10	1.33E-03
6615	0.10	5.26E-06
6617	0.20	3.04E-04
6619	-0.10	3.37E-08
6626	-0.20	3.57E-07
6635	-0.20	1.81E-05
6638	-0.10	6.38E-03
6639	0.10	1.16E-06
6640	-0.20	7.52E-06
6643	0.10	1.74E-05
6644	-0.20	1.83E-09
6647	0.10	4.36E-04
6648	-0.20	1.60E-03
6650	-0.10	1.64E-03
6651	-0.10	4.90E-03
6659	0.20	7.94E-10
6660	-0.20	7.28E-08
6669	0.10	2.06E-03
6671	-0.10	5.64E-05
6675	-0.20	4.81E-06
6676	-0.20	1.59E-08
6678	0.10	1.08E-03
6681	0.20	9.83E-13
6690	-0.20	5.23E-08
6692	0.10	2.89E-04
6697	0.20	4.66E-15
6703	-0.10	3.66E-03
6704	-0.10	2.54E-04
6706	-0.10	1.48E-05
6708	-0.10	9.66E-04
6709	0.20	4.06E-07
6711	-0.20	3.59E-06
6712	0.20	7.92E-06

6714	-0.10	7.51E-04
6718	-0.10	1.27E-03
6720	0.10	8.08E-04
6722	-0.10	9.50E-03
6724	0.10	2.04E-03
6727	0.20	1.38E-06
6736	0.10	1.92E-03
6748	0.10	2.77E-03
6749	-0.20	6.19E-06
6755	0.20	5.38E-11
6757	-0.20	2.56E-12
6764	0.20	1.94E-04
6774	-0.20	9.39E-07
6776	0.20	5.61E-11
6780	-0.20	1.92E-10
6783	-0.10	1.47E-03
6790	-0.10	6.04E-07
6808	-0.10	2.78E-03
6817	-0.20	2.51E-03
6818	-0.30	5.26E-28
6819	-0.20	7.86E-03
6820	-0.30	6.03E-07
6836	-0.10	1.85E-03
6839	0.20	8.34E-12
6840	0.10	3.38E-03
6843	-0.20	8.56E-10
6844	-0.20	1.16E-03
6849	-0.30	2.18E-08
6856	-0.10	7.00E-04
6859	0.10	8.46E-03
6862	-0.30	1.06E-06
6864	-0.10	5.24E-04
6867	-0.10	1.54E-03
6869	-0.20	6.02E-15
6871	-0.10	4.99E-04
6874	0.10	5.47E-03
6876	0.10	5.20E-04

6884	0.10	6.40E-03
6887	-0.10	9.29E-05
6888	-0.10	2.11E-04
6894	0.10	8.73E-05
6895	0.10	4.17E-03
6899	0.20	5.86E-06
6910	0.10	1.66E-03
6925	-0.20	1.48E-03
6933	-0.20	4.39E-03
6934	-0.20	4.46E-03
6936	-0.20	4.47E-15
6941	0.20	8.93E-03
6945	0.20	5.18E-10
6951	0.10	1.35E-06
6953	0.20	6.82E-08
6954	-0.10	5.30E-03
6961	0.30	1.03E-08
6962	0.20	1.68E-07
6986	0.10	9.18E-03
6989	-0.20	4.84E-03
6990	0.10	3.41E-03
6996	0.20	3.41E-10
6998	-0.20	1.10E-10
6999	-0.10	1.76E-04
7008	0.10	2.78E-04
7011	-0.10	1.15E-05
7012	-0.10	8.42E-06
7013	-0.10	5.22E-03
7020	0.10	3.12E-04
7021	-0.10	2.18E-05
7027	-0.20	4.92E-07
7028	0.20	3.01E-06
7031	-0.10	2.28E-05
7035	-0.10	4.90E-03
7036	-0.10	5.70E-03
7041	0.10	9.61E-03
7044	-0.10	1.37E-03
7045	-0.10	2.04E-03

7053	-0.10	2.29E-05
7063	0.10	2.35E-03
7064	0.10	5.75E-04
7072	-0.10	3.72E-03
7073	-0.10	3.72E-03
7079	0.10	6.90E-08
7081	-0.10	1.89E-03
7082	0.20	2.01E-07
7084	-0.20	7.92E-07
7085	-0.10	5.58E-03
7086	-0.10	3.99E-05
7087	0.10	1.19E-04
7092	0.10	1.09E-03
7093	0.20	5.46E-04
7095	0.20	8.52E-09
7101	-0.10	3.41E-07
7106	0.10	6.30E-03
7114	0.10	2.92E-04
7116	0.10	4.06E-05
7122	-0.20	8.05E-04
7123	0.20	2.70E-08
7128	0.10	1.55E-07
7130	0.20	1.58E-08
7134	-0.10	2.53E-03
7139	-0.20	9.69E-05
7140	-0.20	2.41E-03
7142	0.10	3.68E-03
7143	0.30	4.96E-05
7145	0.10	1.08E-05
7150	0.10	3.55E-03
7151	0.10	2.42E-03
10187	-0.13	1.66E-07
10193	-0.08	5.70E-03
10198	0.11	2.22E-03
10199	0.18	4.26E-12
10204	0.15	3.11E-06
10227	-0.13	3.47E-05

10231	0.18	1.61E-07
10245	0.08	9.70E-03
10248	0.09	4.82E-03
10255	0.13	8.30E-03
10257	0.12	6.20E-03
10258	-0.15	2.98E-05
10269	-0.19	2.56E-05
10271	-0.05	4.85E-03
10274	-0.29	3.24E-16
10280	0.22	8.91E-13
10283	-0.14	1.13E-04
10286	-0.11	3.25E-04
10287	0.09	1.14E-03
10288	0.14	5.86E-04
10290	0.14	4.01E-06
10291	-0.23	3.86E-16
10293	0.20	2.02E-03
10296	0.11	3.66E-04
10299	0.15	6.70E-06
10302	0.16	2.80E-09
10304	-0.19	1.22E-10
10305	-0.11	2.24E-05
10307	0.17	2.20E-03
10314	0.20	3.58E-06
10315	-0.14	4.09E-04
10324	-0.14	5.65E-08
10327	-0.26	2.17E-14
10328	0.10	9.38E-04
10341	-0.13	4.97E-05
10342	0.09	6.23E-03
10345	0.10	3.18E-04
10353	0.14	1.08E-03
10362	-0.16	1.38E-08
10366	-0.10	4.85E-03
10368	0.11	2.54E-03
10370	0.10	2.53E-04
10374	-0.09	1.70E-04
10375	-0.19	1.05E-07

10381	-0.09	1.83E-03
10385	0.08	7.15E-03
10386	-0.16	1.74E-09
10400	-0.13	2.13E-03
10402	-0.15	2.92E-08
10408	-0.12	2.32E-04
10412	0.11	4.90E-03
10413	0.11	4.32E-03
10425	0.13	2.88E-06
10427	-0.23	1.08E-06
10436	-0.22	1.24E-04
10438	0.15	7.18E-09
10441	0.16	2.19E-08
10444	-0.29	5.41E-19
13813	-0.16	4.83E-08
13831	-0.14	7.43E-06
13832	0.11	7.44E-04
13834	-0.14	6.39E-06
13837	0.11	5.85E-04
13843	-0.15	8.27E-04
13865	-0.26	1.32E-03
13869	-0.19	4.12E-07
13878	-0.14	5.62E-06
13885	0.17	2.75E-06
13891	-0.16	4.40E-05
13898	0.09	3.58E-03
13899	-0.18	1.38E-06
13900	-0.10	2.93E-04
13913	0.10	7.81E-04
13916	-0.19	9.83E-05
13917	-0.13	2.80E-05
13919	-0.22	7.63E-08
13920	-0.15	6.14E-04
13929	-0.12	8.24E-05
13934	-0.16	1.12E-07
13949	-0.14	1.97E-04
13951	0.08	4.08E-03

13958	0.14	1.22E-05
13959	-0.16	2.24E-05
13984	-0.15	6.03E-08
13998	0.32	4.57E-21
14007	-0.09	4.42E-05
14009	-0.15	3.56E-07
14010	-0.15	3.87E-08
14037	0.11	7.17E-03
14050	0.08	9.28E-03
14052	-0.18	3.42E-09
14071	-0.19	2.68E-11
14079	0.25	2.19E-21
14081	-0.14	1.53E-04
14083	-0.17	2.38E-04
14086	-0.13	1.38E-06
14088	0.15	5.16E-08
14113	0.18	2.18E-08
14125	-0.09	8.67E-03
14135	0.15	3.15E-03
14160	0.08	1.55E-03
14170	0.08	3.87E-03
14186	0.07	9.85E-03
14191	-0.19	2.13E-08
14194	-0.21	1.21E-06
14195	-0.19	1.60E-08
14197	-0.23	1.88E-06
14213	0.08	8.05E-03
14220	0.11	5.26E-04
14222	-0.15	3.22E-04
14237	-0.19	1.95E-08
14244	-0.22	1.60E-16
14246	-0.15	7.25E-08
14253	0.15	2.05E-04
14273	-0.20	9.58E-11
14279	0.10	3.74E-04
14281	0.11	2.10E-03
14284	-0.16	1.75E-03

14294	-0.21	2.65E-03
14296	-0.14	4.23E-07
14300	-0.12	5.67E-05
14301	0.12	1.98E-06
10604	-0.24	7.70E-13
10608	-0.18	6.63E-10
10612	-0.21	1.15E-06
10616	0.09	2.84E-03
10619	0.21	4.57E-04
10622	-0.16	3.28E-03
10625	0.11	1.94E-03
10627	-0.18	4.03E-11
10631	0.12	1.19E-04
10633	-0.16	5.79E-07
10644	0.15	1.63E-03
10647	0.15	1.34E-04
10668	-0.16	8.54E-04
10674	-0.13	3.05E-06
10677	0.09	5.42E-03
10678	-0.16	1.23E-03
10685	0.09	3.75E-03
10688	-0.15	4.49E-08
10717	-0.20	1.17E-10
10722	0.27	7.07E-13
10724	-0.24	7.52E-06
10738	-0.15	1.12E-04
10740	0.17	1.10E-07
10744	-0.19	2.34E-05
10748	0.11	1.04E-03
10752	-0.09	1.92E-03
10758	-0.15	9.01E-04
10763	-0.24	3.18E-05
10769	-0.12	1.42E-04
10775	-0.15	5.59E-08
10778	0.11	9.69E-05
10791	-0.11	5.53E-05
10798	0.09	1.37E-03
10801	-0.10	4.13E-04

10805	-0.14	5.33E-03
10811	-0.13	2.66E-03
10813	0.13	9.30E-05
10837	0.11	8.62E-05
3270	0.10	1.98E-06
3281	-0.10	6.87E-03
3286	0.10	1.47E-04
3302	0.20	2.01E-08
3303	0.20	1.82E-08
3312	-0.20	1.51E-09
3313	-0.20	1.94E-08
3317	0.30	1.29E-16
3318	0.20	9.53E-08
3322	-0.20	1.00E-10
3327	-0.20	4.60E-04
3334	-0.20	3.06E-08
3340	0.10	1.32E-04
3344	-0.10	5.40E-04
3353	0.10	5.60E-04
3359	-0.10	5.76E-06
3367	0.10	9.17E-05
3369	0.10	4.91E-03
3371	0.10	1.45E-07
3372	-0.10	1.17E-05
3379	-0.30	1.02E-06
3391	0.10	7.68E-05
3392	0.30	4.59E-10
3396	-0.20	7.91E-08
3401	0.10	1.98E-05
3402	0.10	1.35E-05
3779	0.10	5.56E-03
3780	0.20	2.88E-12
3784	0.10	5.85E-03
3785	-0.10	4.40E-05
3786	-0.10	3.48E-05
3622	-0.20	6.16E-04
3625	0.10	3.24E-04

3630	-0.10	4.90E-08
3631	-0.20	4.30E-09
3754	-0.10	7.92E-03
3755	0.20	3.97E-04
3759	-0.20	4.12E-06
3760	0.20	3.65E-10
3762	-0.20	1.33E-04
3763	0.30	4.77E-07
3768	-0.20	9.66E-04
3770	0.10	1.31E-06
3772	-0.20	1.82E-07
3776	-0.20	2.17E-12

TABLE 22 - GENETIC MARKERS FOR BODY DEPTH

A	B	C	A	B	C	A	B	C
1	-0.10	5.81E-04	356	-0.20	1.75E-03	781	-0.10	8.95E-03
3	-0.10	1.63E-06	361	-0.20	3.06E-05	806	-0.10	1.90E-04
8	-0.10	5.99E-04	367	-0.20	1.51E-09	812	-0.10	1.05E-05
13	-0.10	8.76E-04	369	-0.10	8.36E-03	821	-0.10	2.29E-03
16	0.10	2.42E-04	370	-0.10	1.29E-03	837	0.10	6.46E-03
43	-0.20	9.89E-09	380	-0.10	6.34E-04	840	0.10	4.24E-04
51	0.10	1.32E-04	382	0.10	4.60E-06	843	-0.20	7.64E-05
54	-0.10	7.13E-03	383	0.20	5.39E-03	844	-0.10	6.00E-03
57	0.10	7.40E-08	386	-0.20	2.15E-03	847	-0.10	8.73E-05
66	0.10	2.21E-08	394	-0.10	1.66E-03	850	-0.10	7.52E-05
82	0.20	7.78E-05	410	-0.10	9.02E-05	856	-0.10	6.80E-04
93	-0.10	7.37E-08	411	-0.10	7.16E-05	867	-0.10	3.70E-03
97	0.10	3.96E-05	420	-0.10	3.68E-04	869	-0.10	2.87E-05
101	0.10	2.13E-05	423	-0.10	5.61E-04	874	-0.20	7.13E-03
106	-0.10	7.73E-03	425	0.20	1.03E-08	875	-0.10	1.07E-04
111	-0.10	3.84E-03	428	-0.10	3.44E-04	882	-0.10	6.88E-05
130	-0.10	1.70E-03	436	-0.10	2.25E-03	883	-0.10	3.11E-03
131	0.10	1.60E-03	440	0.10	3.40E-05	889	0.10	4.84E-03
135	0.10	3.17E-03	457	-0.10	8.61E-03	893	0.10	4.87E-03
138	0.10	8.90E-06	463	-0.10	5.26E-03	915	-0.10	4.56E-05
145	-0.10	4.23E-04	465	0.20	1.21E-04	932	-0.10	1.52E-04
150	-0.20	4.97E-13	479	-0.20	5.13E-03	936	-0.10	6.00E-03
152	0.20	3.66E-06	497	0.10	2.78E-04	940	-0.10	8.69E-03
157	-0.10	1.98E-06	498	-0.10	7.95E-04	944	0.10	4.67E-03
162	0.20	4.29E-05	505	0.10	3.55E-05	948	-0.20	1.68E-11
168	-0.10	1.04E-03	509	0.10	7.32E-04	949	0.10	1.11E-03
176	0.10	1.18E-04	516	0.20	5.56E-04	954	-0.10	1.22E-06
177	0.10	5.89E-04	523	0.10	2.29E-03	961	-0.30	1.56E-05
179	-0.10	8.16E-03	528	-0.10	3.72E-03	977	-0.10	1.25E-04
191	-0.10	9.82E-03	535	-0.10	4.81E-04	979	-0.10	6.63E-03
192	0.10	8.04E-03	536	-0.10	6.52E-04	982	-0.10	3.41E-04
193	-0.10	7.66E-03	545	-0.20	2.32E-05	992	-0.10	1.91E-03
198	-0.10	8.18E-04	548	0.10	1.58E-03	999	0.10	3.44E-03
205	0.10	2.72E-03	557	-0.10	3.38E-03	1008	0.20	6.41E-03
217	0.10	1.87E-04	570	0.10	9.00E-03	1033	0.10	1.94E-03

222	0.10	1.66E-05	591	0.10	3.12E-05	1035	-0.10	6.91E-04
242	-0.10	9.45E-06	592	-0.10	5.42E-06	1038	0.10	6.53E-03
250	-0.10	1.51E-04	599	0.10	5.20E-04	1044	0.20	1.53E-04
261	-0.10	7.53E-03	617	0.20	1.22E-09	1049	0.10	2.37E-05
264	-0.10	1.42E-03	623	0.10	1.32E-05	1050	0.10	5.76E-03
265	-0.10	8.74E-06	629	0.10	8.75E-03	1056	-0.10	1.12E-03
277	-0.20	5.02E-04	637	-0.10	2.97E-03	1071	0.10	2.06E-04
285	-0.10	3.99E-04	638	0.10	3.02E-05	1078	-0.10	2.70E-03
290	-0.10	4.21E-04	640	-0.10	8.44E-04	1084	-0.10	1.02E-03
298	-0.10	2.52E-03	645	-0.20	3.18E-08	1085	0.10	4.35E-03
300	0.10	7.58E-03	647	-0.10	1.44E-03	1087	0.10	5.07E-06
301	0.10	2.94E-04	653	0.10	1.24E-03	1089	0.10	2.01E-03
303	0.20	5.37E-12	660	-0.20	2.94E-03	1097	0.10	2.73E-04
308	-0.10	5.65E-04	661	0.10	1.54E-04	1107	0.20	6.61E-04
309	0.10	6.74E-06	663	-0.20	6.18E-06	1110	0.10	4.04E-03
314	0.10	1.64E-04	664	-0.10	2.43E-05	1140	-0.10	8.61E-03
315	-0.20	3.80E-07	668	-0.10	8.06E-05	1142	-0.10	9.85E-06
316	-0.10	1.71E-03	674	0.20	2.64E-06	1145	-0.10	5.19E-04
317	0.10	5.57E-06	693	-0.20	1.43E-03	1147	-0.10	1.06E-05
321	-0.10	9.34E-04	700	-0.20	8.19E-03	1149	0.10	1.42E-06
331	-0.10	4.05E-05	705	-0.10	6.75E-05	1152	0.10	1.65E-03
333	0.10	1.71E-03	718	0.20	1.17E-09	1156	0.10	5.69E-03
335	-0.10	9.66E-03	723	-0.10	1.11E-05	1165	0.10	1.99E-04
347	-0.10	7.90E-05	726	-0.10	1.09E-06	1167	0.10	2.90E-06
349	-0.10	1.05E-04	730	0.10	1.12E-03	1173	0.10	6.29E-03
354	0.10	8.77E-03	735	-0.10	1.36E-03	1176	-0.20	1.08E-09
366								
2307	0.10	4.41E-04	736	0.10	1.49E-06	1178	0.10	3.04E-03
2312	-0.20	3.41E-04	764	-0.10	3.09E-05	1185	0.10	2.21E-05
2318	0.10	4.39E-03	766	-0.10	4.07E-03	1193	-0.20	3.00E-08
2322	-0.10	8.15E-05	2692	-0.10	1.53E-03	3166	-0.10	6.33E-04
2323	-0.10	2.00E-03	2696	0.10	8.63E-04	3167	0.10	2.12E-06
2331	0.10	6.18E-05	2701	-0.10	8.89E-04	3176	-0.10	3.26E-03
2337	-0.20	5.49E-03	2705	-0.10	1.57E-03	3182	0.20	4.53E-10
2338	-0.10	3.59E-03	2706	-0.10	1.28E-04	3217	-0.10	1.32E-03
2341	-0.20	9.12E-08	2712	-0.10	3.97E-05	3234	0.10	2.71E-07
2343	0.10	3.52E-06	2713	0.10	3.23E-04	3248	0.10	7.65E-04
2344	0.10	2.56E-03	2722	0.10	3.12E-03	3275	-0.20	7.66E-06

2346	-0.10	6.52E-03
2355	-0.10	3.53E-04
2357	0.20	4.74E-06
2371	0.10	2.17E-03
2380	-0.20	2.36E-05
2390	0.10	2.88E-03
2398	0.10	6.53E-04
2401	-0.10	9.96E-05
2404	-0.10	1.10E-05
2409	-0.10	5.06E-04
2419	-0.10	8.25E-04
2421	-0.10	2.41E-05
2425	0.20	1.47E-09
2426	0.20	5.46E-10
2428	-0.10	1.26E-03
2429	-0.10	7.59E-04
2438	-0.20	3.16E-03
2439	-0.10	1.67E-06
2446	-0.10	1.14E-06
2447	-0.10	6.97E-05
2456	-0.10	3.89E-03
2463	-0.20	1.33E-03
2465	-0.20	7.02E-11
2471	0.10	1.06E-03
2473	0.10	2.31E-04
2476	-0.10	4.28E-04
2489	-0.10	2.68E-04
2499	0.10	2.43E-03
2505	0.10	7.52E-04
2506	-0.10	5.99E-03
2511	-0.10	6.25E-03
2537	0.10	4.90E-03
2542	0.20	8.36E-04
2544	-0.10	1.59E-04
2550	0.20	1.07E-05
2559	0.30	3.07E-04
2564	0.10	4.46E-03
2583	0.10	1.16E-03

2726	-0.10	1.59E-04
2727	0.10	6.18E-04
2738	-0.10	1.68E-03
2739	-0.10	3.31E-03
2740	-0.10	8.95E-04
2769	0.10	3.22E-03
2772	0.10	2.34E-03
2787	0.10	3.02E-03
2790	0.10	3.63E-03
2791	-0.10	4.44E-03
2792	-0.10	1.09E-05
2795	-0.10	3.67E-06
2817	0.20	1.24E-06
2824	0.10	2.34E-03
2836	0.10	2.59E-03
2838	-0.10	3.92E-05
2843	0.10	8.80E-06
2857	-0.10	3.51E-03
2860	0.10	4.06E-03
2866	0.10	4.38E-03
2872	0.20	1.16E-09
2874	-0.10	3.16E-03
2890	0.10	3.99E-03
2907	-0.10	9.19E-03
2910	0.10	2.53E-04
2929	-0.10	4.70E-05
2944	-0.20	6.42E-12
2950	-0.10	3.75E-05
2960	-0.20	4.73E-07
2970	0.10	1.42E-05
2973	0.10	5.93E-05
2980	-0.20	1.61E-03
2996	0.10	6.73E-04
3000	0.10	5.39E-03
3004	-0.10	7.54E-03
3006	-0.10	9.91E-03
3018	0.10	9.26E-03
3028	-0.10	5.59E-04

3283	-0.10	2.61E-03
3288	-0.10	2.52E-04
3302	-0.20	3.70E-07
3303	-0.20	3.44E-07
3309	-0.30	6.50E-05
3313	-0.10	8.05E-03
3317	-0.10	9.06E-05
3318	-0.20	5.08E-09
3321	0.20	2.65E-10
3328	0.10	1.33E-03
3333	0.20	3.49E-11
3338	-0.10	2.59E-03
3353	0.10	2.63E-05
3357	-0.10	4.99E-06
3360	-0.10	6.01E-04
3369	-0.20	3.98E-06
3382	0.10	2.50E-03
3392	-0.10	3.73E-04
3394	-0.10	5.71E-03
3395	-0.10	1.50E-03
3406	-0.10	5.09E-03
3407	0.10	3.68E-03
3409	0.10	1.57E-03
3411	-0.10	9.90E-06
3433	-0.20	3.46E-08
3438	-0.10	3.90E-06
3439	-0.10	3.38E-03
3451	0.10	3.03E-03
3463	-0.10	1.51E-04
3466	-0.10	1.09E-03
3467	-0.10	3.88E-03
3487	-0.20	2.61E-09
3489	-0.10	2.88E-03
3491	-0.10	1.25E-04
3493	0.10	2.41E-05
3497	-0.10	3.12E-03
3498	-0.10	7.83E-04
3500	-0.10	8.53E-04

2587	0.10	6.79E-04	3037	0.10	1.16E-04	3506	0.10	5.34E-04
2594	0.10	4.13E-04	3068	-0.10	1.30E-05	3510	0.10	3.81E-06
2596	-0.20	3.61E-07	3082	-0.10	4.24E-03	3521	0.10	6.56E-04
2604	0.10	1.96E-03	3084	-0.10	6.31E-04	3523	-0.10	5.01E-03
2607	0.10	1.93E-03	3089	-0.10	2.31E-05	3529	0.10	8.08E-03
2614	-0.20	4.88E-06	3113	-0.20	8.09E-07	3539	0.10	7.75E-03
2615	-0.20	1.50E-09	3115	-0.20	2.68E-09	3541	-0.10	1.22E-07
2624	0.10	1.14E-03	3117	0.10	9.28E-03	3550	-0.10	6.17E-04
2640	0.10	2.13E-04	3120	-0.10	6.87E-03	3557	-0.10	7.62E-03
2642	-0.10	1.52E-03	3125	0.10	4.02E-04	3558	0.10	3.67E-03
2646	-0.10	7.12E-03	3127	0.10	2.92E-03	3570	0.20	1.22E-03
2648	-0.10	8.81E-04	3130	-0.20	3.54E-03	3583	-0.10	3.26E-03
2654	-0.20	5.41E-04	3131	-0.10	1.52E-07	3590	-0.20	1.87E-09
2673	-0.20	4.35E-08	3133	-0.10	1.08E-04	3597	-0.20	7.47E-03
367								
2677	-0.20	3.31E-06	3143	-0.10	8.53E-03	3604	-0.10	3.78E-03
4831	0.10	1.54E-03	3149	-0.10	5.72E-03	3608	-0.10	1.55E-03
4832	-0.10	2.00E-03	3150	0.10	6.06E-03	3619	0.10	4.50E-03
4834	-0.20	6.23E-05	3158	0.10	2.51E-05	3621	-0.10	8.76E-03
4854	0.20	4.88E-08	5220	-0.10	6.54E-05	5584	-0.10	9.30E-03
4856	-0.10	7.19E-07	5230	-0.10	5.82E-03	5589	-0.20	2.99E-03
4857	-0.10	2.34E-03	5258	0.20	8.27E-03	5593	0.10	7.44E-05
4858	-0.10	5.99E-03	5272	-0.10	1.66E-03	5609	-0.10	2.46E-03
4864	0.10	6.81E-04	5275	-0.10	1.23E-03	5610	-0.10	7.75E-03
4871	-0.10	3.07E-04	5279	0.10	8.17E-08	5613	0.10	9.90E-03
4878	-0.10	1.01E-04	5283	-0.10	9.97E-05	5616	0.10	3.16E-03
4880	0.20	3.75E-03	5294	0.10	9.55E-03	5617	-0.10	4.40E-03
4882	0.20	1.55E-08	5295	0.10	8.25E-04	5632	-0.10	1.72E-03
4886	-0.20	2.04E-03	5306	-0.10	1.50E-04	5634	0.20	9.43E-10
4890	0.20	1.31E-03	5308	0.10	6.17E-05	5635	0.20	8.06E-10
4893	-0.10	1.45E-05	5315	-0.20	1.70E-08	5638	0.20	1.39E-04
4901	0.10	1.54E-07	5320	-0.20	4.28E-08	5646	-0.10	3.95E-03
4909	-0.10	5.76E-05	5322	0.30	6.24E-06	5663	-0.10	1.83E-03
4911	0.10	6.61E-03	5323	0.20	2.18E-15	5674	-0.10	8.25E-05
4917	-0.10	4.87E-04	5326	0.10	8.29E-03	5677	-0.10	1.71E-05
4927	0.10	8.56E-05	5333	-0.10	1.22E-05	5678	-0.10	6.00E-06
4932	-0.20	3.99E-03	5334	-0.10	1.32E-05	5687	-0.10	3.60E-04
4936	0.20	1.09E-07	5336	0.10	9.57E-04	5691	-0.10	3.49E-04

4938	0.10	7.51E-05	5343	0.10	2.11E-03	5701	0.10	9.04E-03
4942	-0.10	1.71E-03	5347	0.20	1.82E-04	5705	0.10	7.05E-05
4943	-0.10	4.31E-03	5352	0.10	1.08E-03	5715	0.10	7.56E-04
4946	-0.10	2.28E-03	5356	-0.10	6.36E-04	5729	-0.10	4.12E-03
4952	-0.10	3.16E-06	5363	-0.10	6.52E-04	5731	0.10	5.65E-03
4961	-0.20	3.06E-04	5365	-0.20	8.28E-04	5739	0.10	6.07E-03
4964	0.10	8.35E-04	5367	0.20	3.53E-09	5752	-0.20	5.50E-07
4966	-0.10	8.57E-04	5379	0.10	3.46E-03	5765	0.10	9.58E-03
4973	0.10	2.42E-03	5381	-0.10	1.38E-03	5774	0.30	3.07E-04
4978	0.30	2.25E-04	5391	-0.10	9.67E-03	5775	0.10	1.14E-03
4982	-0.20	3.88E-08	5399	0.10	1.58E-05	5780	-0.10	9.83E-06
5000	0.10	1.90E-05	5401	-0.10	4.80E-03	5785	0.20	7.96E-04
5003	-0.10	1.41E-03	5411	-0.10	2.18E-03	5791	0.10	5.09E-05
5015	0.10	3.19E-03	5417	0.20	7.87E-07	5808	0.20	2.91E-04
5028	-0.10	2.09E-03	5426	-0.10	1.73E-03	5813	0.10	2.53E-05
5037	0.10	6.47E-05	5427	-0.10	2.22E-03	5817	0.10	3.74E-03
5044	0.20	5.81E-06	5429	0.10	1.90E-04	5821	0.10	7.32E-03
5046	-0.10	1.72E-05	5434	0.10	7.53E-03	5826	-0.10	9.64E-04
5053	0.10	7.33E-03	5436	0.10	3.66E-03	5841	-0.20	2.37E-07
5066	-0.10	2.63E-03	5437	0.10	4.09E-03	5876	-0.10	8.30E-06
5069	0.10	5.05E-03	5443	-0.10	5.36E-03	5877	-0.10	5.59E-04
5076	-0.10	1.25E-04	5460	0.10	6.80E-03	5883	0.10	9.66E-04
5098	-0.10	1.72E-04	5461	-0.20	3.02E-05	5892	-0.10	1.27E-03
5101	-0.10	7.98E-06	5462	0.10	1.77E-06	5895	-0.20	1.49E-11
5115	-0.20	3.47E-12	5465	-0.10	2.06E-05	5900	0.20	4.37E-03
5121	-0.10	2.65E-03	5466	-0.10	6.98E-05	5908	0.10	4.73E-04
5135	-0.10	1.26E-08	5472	-0.10	9.39E-07	5911	-0.20	5.29E-04
5141	0.20	1.47E-06	5476	-0.10	1.59E-03	5921	-0.10	3.20E-03
5145	-0.10	3.68E-05	5492	-0.10	4.24E-03	5923	-0.10	2.47E-03
5149	0.10	2.32E-03	5495	0.20	5.75E-05	5925	0.10	4.33E-04
5151	0.20	1.22E-03	5501	-0.10	5.85E-03	5937	-0.10	9.68E-04
5161	0.10	2.61E-03	5502	-0.10	3.04E-03	5942	0.10	8.15E-03
5162	0.10	3.83E-05	5512	-0.10	7.67E-03	5951	0.20	2.01E-08
5166	-0.10	3.93E-03	5513	-0.10	3.00E-05	5953	0.10	3.01E-03
5168	0.10	1.60E-03	5539	-0.10	2.05E-04	5957	-0.10	3.80E-04
5169	-0.10	5.61E-03	5540	-0.10	4.03E-04	5969	-0.10	1.33E-06
5178	-0.20	1.66E-06	5541	-0.20	1.06E-05	5970	-0.10	3.70E-05
5197	0.10	4.47E-03	5545	-0.20	1.61E-05	5971	-0.10	1.11E-04

5198	0.10	6.41E-04	5548	0.30	1.09E-18	5972	-0.10	9.73E-03
5205	-0.10	4.28E-04	5555	0.20	3.37E-07	5978	-0.10	4.00E-03
368								
5206	0.10	1.93E-03	5557	0.10	3.48E-03	5982	-0.10	7.94E-05
5212	-0.10	2.45E-05	5558	0.10	2.97E-03	5986	-0.10	2.12E-04
8683	0.10	6.50E-04	5567	-0.10	1.04E-04	5990	0.10	6.59E-06
8692	0.20	5.56E-05	5575	-0.10	2.79E-03	5994	0.10	3.70E-03
8693	0.10	1.11E-03	5578	-0.10	6.61E-04	5995	0.10	3.59E-03
8694	0.10	5.22E-04	10160	-0.10	9.21E-03	5996	0.10	3.01E-03
8699	-0.10	7.78E-03	10161	0.20	3.77E-05	5997	0.10	2.42E-03
8703	0.10	5.83E-03	10164	0.10	5.23E-04	5999	-0.10	2.57E-03
8704	0.10	1.12E-04	10174	-0.10	7.76E-05	6008	0.10	3.07E-04
8707	-0.20	3.58E-04	10175	-0.10	1.46E-04	6024	0.20	7.49E-11
8708	-0.20	6.26E-04	10181	-0.30	1.24E-05	6025	0.20	3.44E-04
8720	-0.20	9.25E-12	10187	0.10	2.24E-05	6040	-0.10	7.42E-07
8724	0.10	5.05E-04	10208	-0.10	2.01E-07	6058	-0.20	1.02E-07
8729	0.10	2.92E-03	10227	0.10	1.93E-04	6066	-0.10	8.89E-05
8731	0.10	3.71E-05	10231	-0.10	1.21E-03	6067	0.10	4.54E-03
8735	-0.20	5.45E-12	10240	-0.30	6.66E-07	6068	-0.10	4.11E-04
8736	-0.20	2.26E-03	10246	-0.10	4.18E-03	6070	0.10	3.87E-03
8740	0.10	2.05E-03	10252	0.10	3.93E-04	6077	0.10	4.26E-03
8757	-0.10	1.73E-03	10255	-0.10	7.29E-03	6078	0.10	4.48E-03
8761	-0.10	2.59E-03	10269	0.10	2.70E-03	6087	-0.10	1.05E-03
8763	0.10	3.08E-04	10274	0.10	1.66E-03	6088	-0.10	7.82E-04
8765	0.10	1.66E-04	10275	-0.20	5.99E-04	6104	-0.10	5.57E-04
8771	0.10	6.27E-03	10280	-0.10	1.87E-05	6105	0.10	3.65E-06
8774	0.10	1.98E-03	10287	-0.10	8.72E-03	6110	-0.10	8.20E-03
8776	0.10	1.84E-03	10312	0.10	8.25E-04	6111	0.20	5.44E-09
8781	0.10	3.71E-03	10327	0.20	2.40E-06	6117	0.10	5.29E-04
8794	0.10	5.56E-04	10328	-0.10	2.64E-04	6120	-0.10	3.71E-03
8796	0.20	1.34E-03	10332	-0.10	5.28E-04	6124	-0.10	1.96E-05
8797	-0.10	1.02E-03	10345	-0.10	1.28E-06	6131	0.10	4.28E-03
8799	-0.20	6.22E-06	10347	-0.10	8.14E-03	6143	0.10	8.99E-03
8801	0.20	2.94E-04	10366	0.10	2.17E-03	6144	-0.10	2.87E-03
8804	0.10	8.02E-04	10374	-0.10	1.45E-03	6145	0.10	5.68E-04
8814	0.10	3.18E-05	10375	0.20	3.73E-10	6154	0.10	4.79E-03
8818	0.20	1.42E-03	10391	0.10	6.33E-03	6158	-0.10	1.88E-04
8820	0.10	4.49E-03	10393	-0.10	4.38E-04	6160	0.10	4.38E-03

8821	0.10	1.85E-03	10395	0.10	8.69E-03	6161	-0.10	1.10E-03
8847	0.10	7.01E-05	10397	0.10	5.45E-04	6172	0.10	2.28E-04
8848	0.10	1.80E-03	10399	0.20	1.51E-10	6176	-0.10	7.83E-04
8857	-0.10	2.79E-04	10402	0.10	1.66E-06	6177	0.10	7.88E-03
8859	0.10	1.59E-03	10408	0.10	2.62E-03	6184	-0.20	9.59E-06
8863	0.10	4.93E-03	10410	0.10	8.62E-03	6195	0.10	5.18E-04
8864	-0.20	2.45E-03	10411	0.30	9.41E-06	6197	-0.10	6.03E-04
8867	0.10	8.53E-03	10415	0.10	1.26E-04	6198	-0.10	6.34E-04
8874	0.10	4.54E-03	10422	0.10	2.23E-03	6200	-0.20	5.35E-06
8876	0.10	7.16E-03	10441	-0.20	7.11E-07	6203	0.10	3.62E-05
8877	0.10	2.69E-05	10454	0.10	9.55E-03	6212	-0.10	4.41E-03
8890	-0.10	2.42E-05	10474	0.20	4.58E-10	6219	0.10	8.49E-04
8898	0.10	3.37E-03	10480	-0.10	3.25E-03	6226	-0.10	5.46E-05
8901	-0.10	1.62E-05	10488	-0.10	1.97E-03	6232	0.10	9.88E-06
8902	0.10	4.13E-04	10492	0.10	2.55E-05	6233	0.10	3.06E-05
8903	0.10	4.79E-04	10512	0.10	5.28E-05	6240	-0.10	1.72E-03
8908	0.10	5.14E-03	10513	0.10	8.59E-03	6242	-0.10	1.42E-03
8913	0.10	4.40E-04	10515	-0.20	2.32E-03	6246	0.20	1.39E-07
8921	-0.10	2.21E-04	10537	0.10	4.91E-06	6248	0.10	8.22E-03
8922	0.10	2.24E-04	10538	0.20	2.38E-05	6254	-0.20	5.10E-07
8927	0.20	2.52E-08	10539	0.10	1.92E-05	6280	-0.20	3.88E-09
8931	-0.20	4.42E-03	10543	-0.10	5.67E-05	6281	-0.10	8.96E-03
8948	-0.10	1.65E-06	10552	-0.20	2.89E-10	6291	0.20	5.98E-07
8950	0.10	3.78E-03	10558	0.10	1.65E-04	6296	0.20	5.19E-03
8952	0.20	3.01E-05	10563	0.10	5.90E-03	6303	-0.10	4.03E-03
8958	0.10	1.03E-05	10567	0.10	2.55E-03	6304	-0.10	3.86E-03
8959	0.20	8.39E-05	10576	-0.10	8.52E-03	6319	-0.30	4.40E-04
8963	0.10	4.13E-04	10577	0.30	3.78E-05	6330	0.10	3.67E-04
369								
8965	-0.10	2.54E-03	10586	0.10	2.57E-03	6338	0.10	5.93E-03
8977	-0.20	2.74E-06	10588	0.10	3.60E-03	6340	-0.20	6.39E-04
8981	0.10	3.28E-07	10601	-0.10	5.07E-03	6342	-0.10	2.57E-03
8987	-0.10	1.70E-03	10605	-0.10	5.23E-04	12115	-0.20	9.42E-06
9002	0.20	5.24E-11	10608	-0.10	2.04E-03	12137	0.10	5.02E-04
9005	-0.10	2.57E-03	10609	0.20	2.19E-03	12147	0.10	8.50E-04
9011	-0.10	2.40E-04	10612	0.10	5.93E-04	12154	0.20	5.64E-10
9013	-0.20	1.23E-09	10624	-0.10	9.56E-04	12173	0.10	1.90E-04
9019	0.10	2.22E-05	10627	0.20	7.08E-15	12184	-0.10	2.81E-03

9020	0.10	1.20E-05	10631	-0.10	5.96E-06	12194	0.20	1.47E-05
9029	-0.10	4.61E-03	10649	0.10	3.00E-06	12210	-0.10	2.97E-06
9030	0.10	1.19E-03	10655	-0.10	1.08E-03	12219	0.10	1.10E-03
9040	-0.10	6.98E-04	10664	-0.10	1.23E-03	12250	-0.10	1.73E-04
9046	0.10	8.63E-03	10677	0.10	5.35E-03	12257	-0.10	1.02E-03
9052	-0.10	4.80E-04	10685	-0.20	4.72E-09	12273	0.10	4.69E-03
9054	0.10	2.22E-03	10686	0.10	1.70E-04	12274	-0.10	1.94E-04
9055	-0.10	5.07E-04	10724	0.10	5.46E-03	12275	-0.10	4.29E-04
9056	-0.20	1.09E-09	10740	-0.20	3.33E-10	12280	0.10	2.17E-04
9072	0.10	3.31E-05	10741	0.10	8.29E-03	12283	-0.10	2.91E-04
9077	-0.10	1.18E-03	10744	0.20	3.38E-05	12284	0.10	2.00E-03
9081	-0.10	1.11E-06	10746	-0.10	6.81E-05	12292	0.10	4.41E-03
9084	-0.10	2.21E-05	10767	0.20	3.34E-04	12294	0.20	1.21E-05
9093	0.10	3.23E-05	10773	-0.20	5.60E-07	12302	0.10	3.71E-05
9094	0.20	7.73E-07	10780	0.10	3.10E-03	12315	-0.10	5.64E-05
9096	-0.10	5.18E-05	10785	0.10	2.61E-03	12316	0.10	3.71E-03
9097	-0.10	5.60E-03	10807	-0.10	9.73E-04	12322	0.10	9.58E-03
9108	-0.20	5.94E-06	10810	-0.10	1.47E-03	12327	0.20	2.01E-09
9123	-0.10	4.80E-04	10818	-0.10	3.80E-04	12330	0.10	7.19E-07
9126	0.10	9.07E-04	10819	-0.20	2.68E-06	12359	-0.10	3.65E-03
9130	0.10	5.97E-06	10821	0.10	4.42E-04	12362	0.10	1.12E-04
9132	-0.10	1.69E-06	10828	-0.10	3.94E-06	12364	0.20	4.72E-04
9167	-0.10	1.40E-03	10839	-0.10	3.39E-04	12365	0.10	8.98E-04
9168	-0.10	1.52E-03	10840	-0.10	5.47E-04	12371	-0.20	2.19E-08
9178	0.10	1.71E-03	10850	0.10	2.61E-06	12379	-0.10	8.91E-03
9179	0.10	1.16E-03	10858	0.10	3.07E-04	12383	0.10	1.21E-05
9180	0.10	9.57E-04	10865	-0.10	8.03E-04	12409	-0.10	1.52E-04
9195	0.20	1.40E-03	10866	0.10	7.01E-03	12412	-0.10	1.25E-03
9200	-0.10	9.14E-07	10878	0.10	7.09E-04	12414	0.20	2.31E-05
9202	0.10	4.56E-03	10888	-0.10	8.82E-03	12458	0.10	2.28E-03
9207	0.10	4.94E-05	10891	0.10	7.74E-03	12466	-0.10	5.06E-05
9210	-0.10	2.53E-06	10892	-0.10	3.69E-06	12491	0.10	2.58E-03
9213	-0.20	9.99E-07	10900	0.10	4.39E-07	12516	-0.10	8.12E-03
9216	-0.10	4.53E-05	10911	0.10	7.95E-05	12531	0.10	4.49E-07
9229	0.30	9.68E-08	10924	-0.10	6.51E-03	12532	0.10	2.36E-03
9231	-0.10	1.41E-04	10929	0.20	2.57E-03	12539	-0.10	8.19E-03
9239	-0.10	1.22E-03	10936	0.10	9.46E-03	12540	-0.10	9.89E-04
9251	-0.10	1.18E-04	10944	-0.10	6.59E-04	12557	0.20	4.71E-07

9257	-0.20	2.62E-04	10962	0.10	1.71E-05	12563	0.10	2.65E-03
9258	0.30	1.56E-08	10965	-0.10	3.88E-03	12581	0.10	1.91E-06
9259	-0.10	3.00E-03	10974	-0.10	3.67E-04	12584	-0.20	4.17E-07
9260	-0.10	6.27E-03	10994	-0.10	5.24E-05	12588	-0.20	9.53E-06
9261	0.10	3.17E-03	11000	-0.20	1.12E-03	12595	0.20	6.37E-10
9272	-0.10	4.06E-03	11003	-0.10	5.13E-03	12597	0.10	5.57E-04
9275	-0.10	2.88E-05	11007	0.10	7.49E-06	12602	-0.10	1.14E-03
9300	0.10	1.77E-04	11009	-0.10	3.62E-03	12605	-0.10	9.55E-05
9301	0.20	1.88E-05	11032	-0.10	1.72E-03	12615	0.10	6.09E-06
9302	-0.10	5.01E-03	11042	-0.20	3.54E-04	12617	-0.20	3.09E-06
9305	0.20	1.13E-07	11053	0.10	6.33E-03	12625	0.10	1.20E-03
9310	0.10	6.83E-03	11060	0.10	5.95E-04	12635	-0.10	1.25E-03
9313	-0.20	8.46E-04	11062	0.10	2.48E-07	12639	0.10	1.73E-03
9321	-0.10	2.24E-04	11065	0.10	2.89E-03	12652	0.20	9.52E-06
9329	0.10	5.39E-05	11074	0.10	5.67E-04	12655	-0.10	1.47E-03
9332	0.10	7.43E-03	11076	0.20	1.08E-05	12664	-0.10	5.68E-03
370								
9335	-0.10	4.53E-03	11082	0.20	9.96E-10	12665	0.20	4.62E-06
9361	-0.10	2.08E-05	11087	-0.10	2.14E-06	12667	-0.10	1.24E-03
9367	0.10	1.88E-03	11088	-0.10	3.21E-03	12674	-0.10	5.07E-06
9373	-0.10	2.67E-05	11094	-0.10	1.45E-03	12678	0.30	8.18E-05
9376	-0.10	3.52E-04	11097	0.10	6.72E-04	12679	-0.20	2.70E-05
9378	-0.10	1.19E-03	11101	-0.10	5.88E-04	12682	0.10	5.14E-03
9386	-0.20	3.68E-08	11103	-0.10	8.80E-08	12684	-0.10	5.36E-03
9389	0.10	8.07E-08	11108	0.10	5.75E-03	12691	-0.10	9.44E-05
9401	0.20	8.44E-06	11114	-0.10	3.07E-04	12692	-0.10	4.01E-03
9413	-0.20	2.92E-04	11116	0.10	1.47E-03	12701	-0.10	8.51E-03
9420	0.10	6.05E-04	11127	0.10	1.37E-03	12720	-0.10	3.31E-03
9432	0.20	5.92E-11	11136	-0.10	6.61E-04	12728	-0.10	6.08E-03
9433	-0.20	4.11E-07	11139	0.10	8.40E-05	12732	-0.10	3.76E-05
9444	0.30	1.14E-04	11140	-0.10	6.67E-03	12743	-0.10	1.03E-04
9445	-0.10	6.62E-03	11152	-0.10	4.54E-06	12766	-0.20	1.49E-06
9459	-0.10	7.82E-03	11154	-0.10	8.13E-03	12773	0.10	3.22E-03
9460	-0.10	6.39E-03	11166	-0.10	5.76E-03	12814	0.10	6.02E-03
9462	-0.10	4.63E-05	11172	-0.10	5.57E-03	12828	0.20	3.12E-08
9464	-0.20	2.69E-07	11179	0.10	4.26E-03	12840	-0.20	3.63E-04
9479	0.10	9.37E-03	11181	-0.10	8.56E-03	12849	-0.10	2.96E-05
9480	-0.20	5.93E-08	11201	-0.20	3.21E-04	12867	-0.10	1.86E-03

9486	0.20	3.70E-04	11210	0.10	3.94E-03	12882	0.10	7.67E-03
9497	-0.10	1.54E-04	11217	-0.10	4.05E-04	12897	0.10	1.18E-03
9521	-0.10	1.94E-03	11239	0.20	2.06E-06	12898	0.10	1.02E-06
9525	0.20	7.42E-03	11244	0.10	2.70E-05	12926	0.10	6.87E-03
9542	-0.10	7.74E-03	11277	-0.10	6.86E-03	12940	-0.10	1.02E-03
9543	-0.10	6.68E-03	11282	-0.20	2.98E-03	12975	-0.10	8.65E-03
9552	0.10	5.94E-03	11287	0.10	1.09E-04	12977	0.20	7.21E-06
9553	-0.20	6.67E-14	11290	0.10	1.62E-04	12980	-0.20	2.61E-06
9554	0.10	2.92E-07	11294	0.10	8.68E-03	12987	0.10	2.60E-03
9561	-0.10	3.05E-03	11298	0.20	1.23E-03	12990	-0.10	9.00E-03
9566	0.10	1.73E-06	11302	0.10	8.05E-03	12993	0.10	8.96E-05
9569	-0.10	1.67E-03	11303	0.10	5.95E-05	12994	-0.10	3.43E-07
9582	0.20	1.55E-10	11310	0.10	3.73E-08	12995	-0.10	6.72E-03
9584	-0.10	7.13E-04	11322	-0.20	1.80E-04	12996	0.10	8.70E-08
9587	0.10	1.43E-04	11323	-0.20	6.70E-04	13001	0.10	1.46E-04
9595	-0.10	4.03E-04	11330	0.10	5.36E-06	13011	0.10	5.17E-03
9605	-0.10	5.40E-04	11338	-0.10	2.69E-03	13014	-0.10	3.05E-03
9608	0.10	4.71E-04	11340	-0.20	6.77E-08	13018	-0.10	1.30E-04
9619	-0.10	3.49E-03	11356	0.10	4.56E-03	13025	0.20	5.49E-09
9622	-0.20	1.63E-05	11360	-0.10	3.30E-03	13027	0.10	5.65E-03
9626	-0.10	3.86E-03	11363	0.10	6.74E-06	13038	-0.20	1.18E-03
9646	-0.10	5.05E-03	11369	0.20	1.80E-09	13051	0.10	5.11E-03
9655	-0.10	6.87E-07	11374	0.10	2.04E-03	13059	-0.10	6.66E-03
9656	-0.10	5.10E-03	11383	0.20	2.60E-09	13080	0.10	1.56E-04
9657	-0.10	5.19E-04	11400	0.20	7.14E-06	13088	-0.10	9.44E-04
9658	0.10	6.86E-04	11406	-0.10	4.67E-05	13091	-0.10	1.13E-04
9663	-0.20	1.49E-03	11417	0.10	2.66E-04	13094	-0.10	5.73E-03
9673	-0.10	1.50E-03	11442	0.10	1.50E-03	13107	0.10	6.31E-04
9676	0.10	9.76E-07	11444	0.10	9.57E-03	13108	-0.10	2.26E-03
9682	0.10	1.51E-06	11456	-0.10	1.44E-05	13113	-0.10	4.19E-03
9688	-0.10	1.67E-04	11462	-0.10	3.22E-04	13123	-0.10	1.50E-03
9696	-0.10	3.36E-04	11467	0.10	9.18E-05	13126	0.10	7.58E-03
9697	-0.10	1.99E-04	11468	-0.20	5.71E-04	13139	-0.10	7.81E-03
9703	0.10	4.22E-04	11471	0.10	2.58E-03	13149	0.10	3.90E-03
9738	0.10	3.22E-03	11472	-0.10	1.36E-03	13151	-0.20	5.58E-05
9748	0.20	9.69E-06	11488	-0.20	6.96E-04	13161	0.20	5.80E-09
9749	0.20	6.07E-09	11497	0.10	3.18E-03	13185	-0.20	1.16E-09
9760	-0.10	5.86E-03	11501	-0.10	9.75E-05	13199	0.20	7.00E-08

9761	0.20	4.60E-12	11502	-0.10	5.31E-04	13200	0.10	7.19E-03
9763	0.10	5.60E-04	11503	-0.10	2.38E-04	13212	-0.20	1.16E-07
9766	0.20	4.49E-03	11510	0.20	5.28E-09	13216	-0.10	2.22E-05
9770	-0.10	2.56E-03	11533	-0.10	6.46E-05	13217	-0.10	1.31E-06
371								
9773	-0.10	1.25E-04	11541	0.10	6.20E-03	13218	-0.10	4.51E-04
9777	-0.10	8.76E-03	11551	-0.10	9.15E-04	13238	-0.10	2.02E-04
9794	0.10	1.78E-05	11560	0.20	9.53E-07	13239	-0.20	1.60E-03
9806	0.10	7.76E-03	11569	0.10	5.62E-03	13296	-0.10	8.13E-04
9807	0.20	4.29E-06	11577	-0.10	1.53E-07	13297	-0.30	1.31E-04
9815	-0.10	5.35E-04	10062	0.10	1.57E-04	9977	-0.20	2.92E-03
9828	-0.10	1.62E-04	10069	-0.10	1.24E-04	9990	-0.30	8.33E-04
9835	0.10	6.97E-04	10076	-0.10	2.42E-03	9995	0.10	1.20E-04
9837	0.10	4.85E-03	10078	0.20	8.44E-03	10000	0.20	2.60E-08
9849	-0.10	3.99E-05	10081	-0.10	4.71E-05	10001	-0.10	9.96E-04
9858	-0.10	1.82E-03	10092	0.10	3.97E-03	10023	0.10	4.68E-03
9859	-0.10	2.28E-06	10094	0.20	1.15E-03	10033	0.10	7.16E-04
9866	-0.10	1.04E-03	10096	-0.10	4.12E-05	10035	0.20	2.47E-13
9867	-0.10	1.18E-03	10100	-0.10	2.68E-04	10044	0.10	1.09E-03
9868	0.20	1.52E-06	10156	0.20	7.41E-03	10052	-0.20	1.94E-04
9876	-0.10	3.04E-04	10157	-0.10	3.04E-04	10053	0.10	3.09E-03

A	B	C	A	B	C	A	B	C
1194	-0.20	3.42E-07	1604	0.10	2.78E-03	2003	-0.10	1.40E-04
1202	0.10	9.35E-03	1608	-0.20	1.31E-05	2004	-0.10	5.10E-03
1204	-0.20	2.60E-04	1612	0.10	4.36E-03	2008	-0.20	3.42E-06
1205	-0.20	5.25E-04	1614	-0.10	5.42E-04	2011	0.10	2.39E-05
1214	0.10	5.17E-03	1623	-0.10	8.28E-06	2013	-0.10	6.61E-06
1230	0.20	2.23E-03	1637	0.10	1.17E-04	2015	-0.20	2.97E-03
1242	-0.10	5.46E-03	1656	-0.10	1.06E-03	2016	0.10	3.60E-03
1252	0.10	1.52E-03	1662	0.10	1.11E-03	2018	0.10	4.91E-03
1266	-0.10	7.04E-04	1669	-0.10	7.14E-04	2020	0.20	7.49E-08
1283	-0.10	2.00E-04	1670	-0.20	2.71E-03	2024	0.10	8.81E-03
1287	0.10	5.80E-07	1678	0.10	1.72E-04	2035	0.10	1.53E-04
1291	-0.10	4.78E-03	1684	-0.10	6.33E-04	2040	-0.10	1.51E-04
1293	-0.30	4.62E-06	1691	-0.10	1.95E-03	2043	0.10	1.42E-03
1301	0.10	2.50E-04	1710	0.10	1.37E-03	2044	-0.10	6.85E-03
1306	0.10	2.31E-03	1714	-0.20	1.80E-03	2049	-0.10	6.57E-04
1309	-0.10	1.69E-03	1717	0.20	2.49E-04	2057	-0.10	5.13E-06
1317	-0.10	6.77E-04	1718	-0.10	4.30E-03	2059	0.10	4.28E-03
1332	-0.10	7.68E-03	1729	0.20	9.03E-10	2077	0.10	1.34E-04
1334	0.10	1.60E-03	1737	0.10	7.20E-03	2078	-0.20	7.30E-13
1336	0.10	9.60E-03	1744	0.20	8.84E-09	2091	0.10	5.17E-03
1340	-0.20	1.84E-03	1745	0.20	2.06E-09	2096	0.10	5.37E-08
1346	-0.10	1.00E-06	1747	-0.10	1.48E-06	2107	0.20	5.10E-05
1347	-0.10	3.89E-03	1751	0.10	1.50E-04	2108	0.20	2.38E-04
1348	0.10	2.90E-03	1757	-0.20	6.57E-07	2110	-0.10	6.56E-04
1349	0.10	7.75E-07	1758	-0.20	2.45E-03	2118	0.10	1.23E-04
1362	-0.10	6.29E-03	1760	0.20	2.95E-10	2125	0.20	1.39E-03
1367	0.10	5.23E-03	1766	0.10	1.24E-03	2128	-0.10	1.25E-03
1375	-0.20	1.01E-08	1777	0.10	8.57E-03	2131	-0.10	3.81E-03
1378	-0.10	3.49E-03	1778	0.10	3.59E-03	2133	0.10	2.13E-04
1393	-0.10	7.02E-05	1779	-0.10	3.81E-04	2137	0.10	7.00E-04
1408	-0.10	5.96E-03	1781	-0.10	3.52E-03	2140	0.20	4.70E-08
1410	-0.10	1.22E-03	1782	-0.10	3.37E-03	2144	-0.10	6.05E-08
1412	0.10	2.89E-03	1789	0.10	7.97E-05	2145	0.20	2.39E-18
1415	0.10	3.96E-08	1790	0.10	6.12E-05	2146	0.10	3.08E-03
1434	-0.10	2.94E-03	1814	-0.10	8.46E-03	2152	-0.10	7.98E-03

1435	0.20	1.53E-12	1819	-0.10	3.30E-04	2162	0.10	5.20E-05
1436	-0.10	3.05E-03	1820	0.10	3.47E-03	2166	-0.10	9.50E-05
1442	-0.10	1.30E-03	1827	0.10	2.08E-09	2171	-0.10	4.56E-04
1459	-0.10	3.74E-03	1853	0.20	3.43E-04	2175	-0.20	1.86E-03
1464	0.10	7.48E-03	1859	0.10	1.52E-03	2183	-0.10	1.52E-04
1465	-0.10	1.94E-03	1863	0.10	2.37E-06	2185	-0.10	1.48E-03
1466	-0.20	1.01E-06	1871	0.10	1.59E-05	2194	-0.10	8.94E-03
1467	0.10	1.39E-03	1875	-0.10	2.57E-04	2210	-0.10	1.74E-03
1468	-0.10	1.69E-03	1876	0.10	1.89E-03	2215	0.20	5.24E-12
1478	-0.10	7.29E-03	1879	0.10	2.69E-03	2216	0.10	3.33E-03
1489	-0.20	2.14E-05	1886	0.10	1.15E-06	2219	-0.10	7.45E-03
1490	0.20	6.63E-08	1889	-0.10	7.33E-03	2222	-0.10	9.08E-03
1500	-0.10	4.10E-03	1890	-0.10	5.09E-04	2228	0.10	7.05E-03
1504	-0.10	9.29E-05	1892	0.10	1.66E-04	2229	0.10	3.62E-05
1507	0.10	4.85E-03	1900	0.20	7.97E-04	2233	0.10	6.09E-03
1510	-0.20	4.12E-04	1907	-0.10	1.03E-05	2238	-0.10	9.21E-03
1524	0.20	1.14E-08	1912	0.10	3.81E-03	2243	-0.10	8.90E-03
1525	-0.20	7.73E-04	1920	-0.20	5.50E-06	2245	-0.10	5.08E-04
1529	0.10	7.27E-03	1924	-0.10	6.32E-07	2247	-0.10	1.07E-03
1532	-0.10	7.35E-03	1928	0.10	9.19E-03	2251	0.10	1.08E-03
1560	0.10	1.26E-04	1956	-0.10	1.24E-03	2257	-0.10	7.48E-03
1569	0.10	9.41E-04	1957	-0.10	7.18E-03	2266	-0.20	5.91E-03
1570	0.10	1.79E-03	1965	0.10	1.76E-03	2272	0.10	4.23E-06
1571	0.10	2.02E-03	1974	0.10	5.64E-08	2276	0.10	7.55E-03
1577	-0.10	2.95E-03	1981	-0.10	5.05E-03	2285	0.10	3.53E-06
1588	-0.10	3.39E-05	1982	-0.10	7.58E-03	2288	-0.10	1.14E-03
1593	0.20	1.04E-05	1985	0.20	5.63E-12	2293	-0.10	3.66E-03
1599	0.20	3.23E-07	1993	-0.10	1.88E-05	2294	-0.10	4.03E-03
1601	-0.10	6.54E-06	1994	0.10	9.28E-04	2298	-0.10	2.99E-06
3626	0.10	8.12E-04	4043	0.10	4.51E-06	4460	-0.20	1.69E-08
3629	-0.10	1.29E-04	4047	-0.20	3.14E-03	4470	-0.20	1.40E-08
3630	0.10	2.33E-06	4054	0.20	1.77E-08	4474	0.10	3.83E-04
3642	-0.10	7.33E-04	4056	0.10	6.92E-03	4476	0.10	1.85E-06
3653	-0.10	4.23E-04	4058	-0.10	8.53E-04	4477	0.10	4.53E-03
3667	0.10	3.73E-04	4059	0.10	3.59E-06	4482	-0.10	3.36E-04
3698	-0.10	1.81E-03	4064	0.10	7.76E-03	4492	0.20	6.44E-06
3704	0.10	6.47E-03	4065	-0.20	5.70E-03	4493	-0.10	1.38E-03

3706	-0.10	1.66E-03	4083	-0.20	4.19E-04	4506	-0.10	1.40E-05
3708	-0.10	3.89E-05	4090	-0.10	3.08E-04	4508	0.10	5.88E-05
3715	-0.10	3.79E-03	4091	0.30	2.48E-04	4509	-0.10	1.58E-03
3716	-0.10	3.88E-03	4098	0.10	1.65E-04	4512	0.20	2.27E-10
3720	-0.20	4.72E-04	4099	0.10	2.38E-04	4528	0.20	3.73E-05
3725	0.10	7.54E-03	4103	-0.10	2.03E-03	4530	0.20	9.37E-04
3726	-0.10	3.14E-05	4106	0.10	2.68E-04	4537	0.10	6.72E-04
3728	0.10	6.89E-03	4107	0.20	2.00E-09	4542	-0.10	1.25E-04
3729	0.10	1.64E-05	4122	-0.10	8.55E-06	4544	0.10	3.08E-03
3732	-0.10	1.60E-05	4128	-0.10	6.12E-03	4545	0.10	1.73E-03
3743	0.10	8.58E-03	4135	-0.10	8.46E-04	4554	-0.10	5.20E-03
3745	-0.10	1.22E-03	4141	-0.20	9.20E-06	4558	0.10	1.73E-03
3750	0.10	3.66E-04	4149	-0.10	8.71E-07	4559	0.10	2.00E-03
3762	0.10	4.96E-03	4150	-0.20	2.10E-10	4577	0.20	9.73E-06
3764	0.10	3.97E-03	4156	0.10	1.90E-03	4580	0.10	2.31E-03
3765	-0.10	5.38E-05	4158	0.10	7.11E-06	4582	0.10	1.36E-03
3776	0.10	1.20E-03	4162	0.10	2.24E-04	4599	-0.20	1.15E-11
3805	0.10	7.60E-03	4176	-0.10	2.51E-03	4605	-0.10	3.37E-06
3810	0.10	2.60E-03	4178	-0.20	1.12E-03	4608	-0.10	9.48E-03
3818	0.10	8.40E-03	4194	0.10	1.22E-06	4610	0.10	4.43E-04
3839	-0.10	3.99E-06	4196	0.10	1.52E-05	4613	-0.10	9.56E-04
3840	-0.20	1.69E-05	4199	0.10	1.23E-03	4622	0.10	9.81E-03
3847	0.10	7.78E-06	4230	-0.20	1.38E-06	4648	-0.20	1.14E-06
3851	-0.10	5.78E-04	4231	-0.10	3.35E-03	4664	-0.10	2.44E-03
3864	0.10	8.36E-05	4242	-0.10	1.41E-05	4679	0.10	8.97E-04
3871	0.10	4.58E-05	4270	-0.10	4.03E-05	4692	0.10	1.07E-05
3873	-0.10	1.25E-04	4277	0.10	3.51E-03	4694	0.10	2.69E-05
3878	0.10	7.84E-04	4285	0.10	3.00E-04	4703	-0.10	6.13E-04
3880	-0.10	9.63E-04	4298	-0.10	4.03E-03	4705	-0.10	5.02E-05
3886	0.10	1.36E-03	4307	-0.10	1.69E-05	4708	-0.20	1.35E-06
3895	0.10	2.89E-03	4313	-0.10	6.46E-04	4723	-0.20	9.64E-09
3904	0.10	8.33E-04	4315	0.10	3.52E-06	4724	-0.10	4.90E-04
3907	-0.10	9.94E-03	4321	0.10	3.17E-03	4734	0.10	6.11E-04
3910	0.10	2.78E-05	4327	0.20	2.52E-05	4737	0.10	9.51E-04
3912	-0.10	7.17E-03	4332	0.10	2.48E-03	4738	0.10	1.86E-04
3915	-0.10	3.06E-03	4344	0.20	2.08E-03	4739	0.10	4.14E-03
3918	0.10	5.71E-05	4351	-0.10	6.00E-05	4740	0.10	2.55E-03
3927	-0.10	6.75E-03	4352	0.10	1.69E-03	4744	-0.10	2.32E-03

3933	0.20	1.69E-11	4372	0.10	7.65E-03	4746	0.10	6.58E-03
3937	-0.10	2.19E-04	4396	-0.10	1.33E-04	4757	0.10	5.87E-07
3951	-0.10	2.02E-03	4405	0.20	2.13E-04	4758	-0.10	1.74E-05
3953	-0.20	7.49E-06	4408	0.20	1.30E-06	4763	0.10	5.76E-03
3961	-0.10	1.55E-05	4411	0.10	6.75E-03	4765	0.20	9.40E-16
3969	0.20	1.92E-06	4412	0.10	5.50E-03	4770	-0.10	1.09E-05
3979	-0.20	5.55E-04	4415	-0.10	7.12E-05	4774	0.10	1.01E-03
3983	-0.10	7.28E-04	4419	-0.10	6.98E-03	4775	0.20	1.37E-13
4005	0.20	1.21E-04	4422	0.20	9.98E-07	4780	-0.10	8.20E-04
4006	0.10	7.29E-03	4425	0.10	6.15E-06	4786	0.10	8.11E-05
4007	0.10	7.23E-03	4427	-0.20	1.44E-05	4787	0.20	8.67E-09
4014	0.20	1.03E-08	4430	0.10	4.80E-03	4788	0.10	1.25E-04
4016	-0.20	6.39E-09	4447	0.10	9.83E-03	4794	0.10	4.11E-04
4028	0.10	9.41E-04	4451	0.10	3.99E-03	4795	0.10	4.35E-03
4030	0.10	1.21E-04	4452	0.10	2.64E-03	4797	0.10	2.81E-07
4035	-0.10	3.10E-03	4453	0.10	9.43E-04	4808	-0.10	5.25E-05
4039	0.10	4.93E-03	4458	0.10	9.82E-07	4813	-0.10	1.33E-03
4042	0.10	9.28E-05	4459	-0.20	2.18E-08	4817	0.10	5.43E-04
6367	-0.10	6.33E-03	7172	-0.10	8.89E-03	7970	-0.10	9.67E-03
6369	0.10	1.51E-05	7180	0.20	6.03E-04	7981	-0.20	5.00E-05
6372	-0.10	1.17E-03	7182	0.20	1.45E-12	7986	-0.20	1.89E-04
6374	-0.10	2.31E-03	7184	0.10	1.21E-04	8002	0.10	1.48E-04
6385	-0.10	4.61E-03	7195	-0.10	1.49E-04	8006	0.20	2.23E-07
6387	-0.20	2.31E-08	7196	0.20	2.03E-10	8018	-0.20	1.28E-04
6396	-0.10	6.31E-04	7205	0.10	2.89E-03	8020	0.10	8.61E-05
6400	0.10	8.04E-04	7209	-0.10	3.45E-03	8027	-0.10	3.10E-03
6411	0.10	6.34E-04	7223	0.10	7.70E-03	8034	-0.10	2.34E-06
6419	0.10	5.17E-03	7227	0.20	3.63E-07	8035	-0.10	2.77E-06
6429	0.10	2.14E-04	7228	0.20	2.61E-07	8037	0.10	3.32E-03
6433	-0.10	2.52E-05	7229	-0.10	7.98E-06	8048	-0.10	5.13E-03
6439	-0.10	5.41E-05	7230	-0.20	1.75E-07	8053	0.10	1.63E-03
6451	0.10	5.65E-03	7232	-0.10	4.36E-05	8055	-0.10	6.82E-03
6455	0.10	2.58E-04	7233	0.10	9.20E-04	8060	-0.10	1.39E-03
6464	-0.10	1.51E-03	7234	-0.10	6.15E-03	8070	-0.10	3.39E-04
6475	0.10	7.07E-04	7238	-0.10	5.50E-04	8074	-0.10	1.40E-03
6480	-0.10	8.88E-04	7241	0.10	1.72E-07	8075	-0.10	9.46E-06
6486	-0.20	7.03E-09	7247	0.20	4.82E-06	8077	-0.10	2.94E-04

6490	-0.10	3.33E-03
6504	-0.10	2.09E-03
6509	0.10	1.99E-04
6531	0.10	3.16E-03
6537	-0.10	3.61E-04
6540	-0.10	6.40E-03
6551	0.20	1.97E-05
6572	-0.10	9.59E-05
6599	-0.10	4.18E-06
6601	-0.10	1.79E-03
6606	0.20	7.03E-03
6615	-0.10	5.94E-04
6619	0.10	2.78E-06
6621	-0.10	1.04E-06
6627	0.20	1.18E-03
6629	-0.10	3.39E-03
6638	0.10	4.29E-04
6643	0.10	1.07E-03
6650	0.10	6.82E-03
6658	-0.10	2.60E-03
6660	-0.20	1.82E-06
6669	-0.10	1.67E-03
6676	0.20	1.14E-07
6679	-0.10	4.84E-05
6681	-0.10	4.07E-03
6684	0.10	5.07E-05
6689	-0.10	7.22E-05
6690	0.10	9.63E-03
6697	-0.10	2.09E-03
6698	-0.10	9.08E-03
6706	0.10	5.81E-06
6707	-0.10	3.52E-03
6711	0.20	3.65E-04
6712	-0.10	1.10E-03
6715	0.10	5.77E-03
6720	-0.10	7.56E-03
6722	-0.10	9.87E-03
6725	0.10	3.91E-04
7263	0.10	3.70E-03
7266	0.10	6.73E-03
7269	0.10	3.98E-04
7278	0.10	1.39E-03
7279	-0.10	6.81E-05
7282	-0.10	9.47E-06
7286	-0.10	1.14E-03
7294	-0.20	6.94E-04
7300	0.10	6.69E-03
7321	-0.10	7.34E-06
7326	0.20	1.46E-03
7361	-0.10	4.76E-04
7391	0.10	1.41E-04
7396	-0.10	2.88E-03
7398	0.10	3.89E-03
7401	0.10	2.39E-05
7410	-0.20	2.71E-07
7420	0.10	7.17E-03
7427	0.10	4.19E-03
7428	-0.10	6.84E-03
7436	-0.10	3.41E-03
7441	0.10	7.87E-04
7447	0.10	1.78E-06
7448	-0.10	3.45E-03
7449	-0.10	4.86E-03
7451	-0.10	3.46E-03
7453	-0.10	8.26E-04
7454	-0.10	4.18E-03
7460	0.10	1.16E-03
7461	-0.20	1.80E-03
7462	-0.10	1.52E-05
7468	0.10	2.12E-08
7471	0.10	7.58E-06
7481	-0.10	2.16E-04
7489	-0.10	1.31E-03
7493	0.10	5.55E-03
7494	0.10	1.78E-07
7495	-0.10	3.61E-04
8078	0.10	6.71E-04
8081	-0.10	8.26E-05
8092	-0.20	4.71E-04
8100	-0.10	2.46E-03
8111	0.10	3.83E-03
8117	-0.10	6.39E-05
8118	-0.20	7.55E-05
8119	-0.10	1.18E-03
8129	0.20	2.19E-03
8135	-0.20	2.88E-05
8146	-0.10	6.38E-07
8147	0.10	4.00E-06
8148	-0.10	3.01E-04
8149	-0.10	6.83E-03
8152	0.10	5.52E-03
8161	0.20	1.42E-10
8168	0.10	5.17E-05
8172	0.10	6.71E-03
8173	0.20	3.75E-09
8176	-0.10	2.53E-03
8183	-0.10	4.49E-03
8190	0.10	2.73E-03
8192	0.10	8.87E-03
8197	0.20	6.05E-03
8201	-0.20	1.77E-03
8224	-0.10	9.14E-03
8240	-0.10	2.29E-03
8244	-0.10	4.07E-03
8248	-0.10	5.53E-03
8261	0.10	3.36E-03
8285	0.10	9.36E-05
8290	0.10	1.14E-03
8300	0.10	9.37E-04
8309	-0.10	3.24E-03
8312	0.10	7.58E-03
8319	-0.10	1.64E-04
8333	0.10	3.31E-03
8340	-0.10	7.19E-03

6735	-0.10	6.04E-03	7496	0.10	6.53E-03	8345	0.10	4.14E-05
6738	-0.10	8.67E-07	7503	0.10	2.79E-03	8347	0.10	4.49E-03
6739	-0.10	7.26E-03	7519	-0.20	6.29E-08	8349	-0.10	9.81E-04
6742	-0.20	7.63E-05	7546	-0.20	3.08E-03	8351	-0.10	1.75E-06
6748	0.10	1.23E-07	7549	-0.10	5.94E-04	8352	-0.10	1.62E-03
6752	-0.10	1.68E-05	7560	0.10	3.16E-06	8354	-0.10	8.61E-03
6762	-0.10	4.68E-03	7563	-0.10	5.65E-03	8358	-0.10	1.36E-05
6776	-0.10	9.31E-04	7565	0.10	7.66E-04	8360	-0.10	1.18E-03
6785	0.10	6.70E-04	7569	0.10	2.91E-05	8362	-0.20	1.23E-05
6786	0.10	1.19E-03	7578	0.20	1.36E-06	8369	-0.20	3.02E-03
6806	-0.10	7.40E-05	7592	-0.20	8.49E-03	8373	-0.10	9.48E-04
6813	-0.10	3.10E-04	7595	0.10	1.90E-03	8375	-0.20	1.86E-04
6817	-0.10	7.63E-03	7596	0.10	6.12E-03	8388	0.10	7.15E-04
6818	0.10	3.25E-03	7597	-0.10	1.22E-04	8391	0.10	1.25E-03
6848	-0.20	2.23E-03	7602	-0.20	3.00E-03	8403	0.10	4.08E-03
6859	-0.10	7.18E-03	7604	-0.10	3.77E-03	8406	-0.10	3.76E-05
6864	0.10	6.18E-08	7619	-0.10	3.30E-03	8415	-0.10	4.94E-05
6867	0.10	1.89E-04	7624	-0.10	2.61E-03	8417	-0.10	4.48E-03
6868	-0.10	4.39E-04	7642	-0.10	6.21E-05	8418	-0.20	1.16E-04
6871	0.10	4.55E-06	7643	0.10	7.36E-04	8419	0.10	7.16E-03
6879	-0.10	2.33E-04	7644	-0.10	3.98E-04	8431	0.10	4.47E-04
6886	-0.10	1.40E-05	7655	0.10	5.20E-05	8439	-0.10	1.91E-03
6887	-0.10	5.57E-03	7668	-0.10	2.76E-03	8446	0.10	5.66E-04
6889	-0.20	4.75E-11	7669	-0.10	4.68E-03	8449	-0.20	3.07E-10
6894	0.10	1.18E-03	7681	0.20	2.31E-05	8450	-0.10	1.56E-04
6898	0.10	1.86E-04	7684	-0.10	5.49E-03	8456	0.10	1.63E-03
6906	0.10	1.08E-03	7702	-0.10	6.38E-03	8460	0.10	3.36E-04
6907	0.10	8.37E-04	7703	-0.10	2.88E-03	8465	-0.10	4.23E-03
6915	-0.10	7.71E-03	7718	0.20	9.12E-04	8468	0.10	4.04E-03
6919	-0.10	4.09E-04	7723	-0.20	1.23E-03	8473	-0.20	1.83E-14
6921	-0.10	3.92E-03	7738	0.10	7.27E-06	8476	-0.10	3.14E-03
6937	-0.10	2.90E-03	7743	-0.10	6.95E-04	8477	-0.10	2.02E-03
6953	0.10	7.94E-04	7745	0.10	2.14E-08	8478	-0.10	4.14E-03
6969	-0.20	1.21E-05	7748	0.20	2.74E-03	8481	0.10	5.36E-03
6981	-0.10	3.08E-03	7754	-0.10	4.26E-03	8487	-0.10	8.04E-04
6985	0.10	1.69E-03	7761	0.10	1.16E-03	8489	-0.10	1.53E-06
6988	0.10	2.80E-03	7763	-0.10	6.81E-04	8506	-0.10	1.16E-05

6991	-0.10	1.79E-03	7767	0.10	1.44E-03	8517	0.20	5.38E-05
6993	-0.20	8.90E-05	7770	0.10	9.59E-04	8520	-0.20	3.29E-03
7001	0.20	5.76E-03	7771	0.10	8.96E-03	8525	0.10	1.25E-05
7006	0.10	3.10E-03	7793	0.10	9.04E-04	8530	-0.10	2.20E-03
7013	0.10	1.80E-03	7796	-0.10	4.55E-03	8539	0.10	9.68E-04
7020	-0.20	1.28E-11	7814	0.10	9.53E-03	8540	-0.10	4.21E-07
7021	0.30	9.87E-09	7815	-0.10	5.14E-04	8544	-0.10	1.79E-05
7040	-0.10	4.58E-03	7821	0.20	1.58E-14	8547	-0.10	5.48E-03
7041	-0.20	5.04E-05	7822	0.10	3.78E-04	8550	0.20	5.10E-10
7044	0.10	7.36E-04	7823	-0.10	2.81E-04	8560	0.10	6.95E-04
7045	0.10	3.21E-03	7824	-0.10	3.58E-03	8562	0.10	5.70E-03
7048	-0.20	1.17E-03	7827	-0.10	3.83E-04	8566	0.10	1.25E-03
7054	-0.10	1.21E-03	7831	-0.10	4.44E-03	8576	0.10	6.59E-03
7056	-0.20	6.49E-05	7854	0.20	1.42E-03	8579	0.10	3.06E-05
7059	-0.20	6.66E-09	7859	-0.10	1.38E-05	8582	-0.10	3.37E-03
7064	-0.10	4.12E-04	7860	-0.20	3.18E-08	8591	0.10	6.43E-04
7074	-0.10	1.66E-04	7866	-0.10	1.29E-03	8596	0.10	1.15E-04
7085	0.10	1.42E-03	7869	0.20	7.56E-03	8603	-0.20	1.91E-03
7086	-0.10	2.49E-03	7871	0.10	8.44E-03	8617	-0.10	6.12E-03
7087	-0.10	4.61E-06	7872	-0.20	2.74E-04	8623	-0.10	4.61E-03
7092	-0.10	1.78E-03	7874	-0.10	1.23E-03	8628	-0.20	8.49E-03
7095	-0.10	1.53E-04	7876	-0.10	2.21E-04	8644	0.10	1.32E-03
7104	-0.30	5.72E-04	7883	0.10	6.44E-03	8647	-0.10	6.59E-03
7123	-0.10	1.71E-06	7886	0.10	3.01E-07	8648	-0.10	7.82E-03
7124	-0.10	4.60E-03	7899	0.10	3.03E-04	8651	-0.10	4.26E-03
7129	-0.10	1.57E-07	7902	-0.10	3.24E-04	8656	0.10	3.29E-06
7139	0.10	6.63E-03	7916	-0.10	1.01E-05	8658	-0.10	7.21E-03
7142	-0.10	2.18E-04	7937	0.20	5.97E-20	8659	-0.10	4.51E-03
7145	-0.10	7.86E-08	7946	-0.10	5.19E-04	8663	-0.10	1.48E-06
7149	0.10	1.57E-04	7948	-0.10	4.52E-03	8665	0.10	7.41E-03
7170	-0.10	1.73E-03	7952	0.20	2.59E-08	8677	-0.10	6.31E-03
13885	-0.10	4.96E-04	6652	-0.05	5.00E-02	15060	0.10	2.04E-03
13889	-0.20	3.97E-03	6745	0.09	5.00E-02	15078	0.10	1.93E-06
13898	0.10	7.83E-03	6946	0.05	5.00E-02	15088	-0.20	2.89E-07
13906	-0.10	4.38E-04	7246	-0.08	5.00E-02	15092	0.10	8.89E-03
13913	-0.10	9.83E-05	7534	-0.07	5.00E-02	15110	0.20	4.34E-11
13917	0.10	3.95E-03	7867	0.09	5.00E-02	15113	-0.10	7.01E-04

13937	0.20	2.56E-03	8017	0.06	5.00E-02	15131	-0.20	6.68E-08
13940	-0.10	5.78E-03	8041	-0.23	5.00E-02	15164	-0.10	1.72E-06
13949	-0.20	7.05E-04	8640	0.04	5.00E-02	15168	-0.10	7.59E-04
13951	-0.10	3.02E-05	8661	0.18	5.00E-02	15184	0.10	2.06E-03
13959	0.10	6.97E-04	8678	-0.04	5.00E-02	15187	-0.20	6.71E-04
13971	0.10	6.64E-04	8962	-0.05	5.00E-02	15188	-0.10	4.48E-04
13980	-0.10	6.21E-03	9004	0.58	5.00E-02	15206	-0.10	3.25E-03
13989	-0.10	1.06E-06	9454	0.03	5.00E-02	15209	0.10	3.19E-06
13998	-0.10	7.11E-03	9511	0.05	5.00E-02	15232	0.10	2.47E-03
14007	0.10	2.60E-03	9514	0.05	5.00E-02	15233	-0.10	1.32E-03
14009	0.10	5.21E-05	9535	0.06	5.00E-02	15236	-0.20	3.75E-04
14030	-0.10	5.09E-03	10220	-0.31	5.00E-02	15237	0.10	1.15E-03
14036	-0.10	6.22E-04	10471	0.04	5.00E-02	15243	0.10	2.62E-04
14045	0.20	1.14E-03	10598	-0.03	5.00E-02	15281	-0.10	1.15E-03
14049	0.10	8.52E-07	10904	-0.12	5.00E-02	15331	-0.10	3.54E-04
14053	-0.10	1.01E-03	11158	-0.04	5.00E-02	15337	-0.20	2.71E-05
14055	0.10	5.01E-03	11750	0.03	5.00E-02	15340	-0.10	1.53E-03
14057	-0.10	1.87E-04	11836	0.34	5.00E-02	15359	-0.10	1.58E-03
14061	0.10	3.99E-03	11951	0.28	5.00E-02	15363	-0.20	8.32E-03
14071	0.10	3.02E-04	12255	-0.09	5.00E-02	15374	-0.10	5.79E-04
14081	-0.10	1.02E-03	12425	-0.46	5.00E-02	15375	0.10	2.54E-03
14089	0.10	1.54E-05	12474	-0.33	5.00E-02	15379	-0.10	3.04E-04
14104	-0.10	4.71E-03	12616	0.19	5.00E-02	275	0.11	5.00E-02
14114	0.10	8.13E-03	12631	-0.23	5.00E-02	371	0.03	5.00E-02
14116	0.10	5.85E-03	12924	0.04	5.00E-02	461	-0.04	5.00E-02
14124	-0.10	3.39E-03	13232	0.41	5.00E-02	482	-0.07	5.00E-02
14125	0.10	1.85E-03	13234	-0.03	5.00E-02	514	0.03	5.00E-02
14128	0.10	2.65E-03	13369	0.21	5.00E-02	575	-0.05	5.00E-02
14130	-0.10	1.40E-03	13749	-0.35	5.00E-02	634	-0.03	5.00E-02
14131	-0.10	1.03E-04	13781	0.05	5.00E-02	1155	0.10	5.00E-02
14136	-0.10	5.66E-03	13918	0.22	5.00E-02	1365	-0.04	5.00E-02
14144	0.10	2.31E-03	14395	-0.04	5.00E-02	1426	0.05	5.00E-02
14153	-0.10	9.20E-05	14425	0.18	5.00E-02	1683	0.15	5.00E-02
14154	0.20	3.81E-07	14480	-0.08	5.00E-02	2170	-0.08	5.00E-02
14160	-0.10	3.70E-03	14660	-0.18	5.00E-02	2308	-0.15	5.00E-02
14189	0.10	2.11E-03	14816	0.30	5.00E-02	2729	-0.06	5.00E-02
14191	0.10	4.70E-05	14822	0.14	5.00E-02	2759	0.03	5.00E-02
14198	0.10	1.28E-04	14848	-0.16	5.00E-02	2963	-0.10	5.00E-02

14206	0.10	3.49E-05	14897	-0.08	5.00E-02	3319	0.04	5.00E-02
14219	0.10	4.05E-05	14987	-0.28	5.00E-02	3462	0.07	5.00E-02
14237	-0.10	1.47E-03	15052	-0.03	5.00E-02	3678	-0.04	5.00E-02
14242	-0.10	8.71E-03	15153	0.08	5.00E-02	3921	0.06	5.00E-02
14244	0.20	1.34E-10	15196	-0.53	5.00E-02	4114	0.43	5.00E-02
14246	0.10	4.41E-04	15229	0.38	5.00E-02	4804	0.04	5.00E-02
14253	-0.10	2.20E-04	15240	0.03	5.00E-02	4992	-0.51	5.00E-02
14256	-0.20	5.66E-03	15287	-0.68	5.00E-02	5056	-0.06	5.00E-02
14262	-0.10	6.36E-06	15323	-0.32	5.00E-02	5683	-0.03	5.00E-02
14265	-0.10	1.62E-03	15371	0.03	5.00E-02	6334	-0.03	5.00E-02
14294	0.20	4.72E-03	14344	-0.10	8.11E-03	11593	-0.10	7.28E-04
14296	-0.10	1.33E-05	14359	-0.20	1.40E-03	11601	-0.10	7.18E-03
14297	0.10	9.21E-05	14364	0.10	3.84E-07	11608	0.10	8.35E-04
14298	0.20	4.84E-07	14373	0.10	7.94E-03	11610	0.10	9.55E-07
14299	-0.10	2.12E-03	14379	-0.20	3.85E-04	11612	0.10	8.68E-08
14300	0.10	2.09E-05	14380	0.10	9.21E-05	11613	0.10	4.93E-03
14306	0.10	5.50E-04	14389	-0.10	8.08E-04	11618	0.10	5.48E-03
14309	0.10	5.73E-05	14392	0.10	3.18E-05	11628	-0.10	1.01E-03
14311	-0.10	1.91E-04	14399	0.10	3.71E-05	11656	-0.20	1.51E-04
14316	-0.10	6.60E-04	14405	0.10	6.64E-03	11665	0.10	1.05E-03
13310	0.10	2.62E-05	14410	-0.10	6.18E-03	11666	0.20	1.74E-04
13313	-0.10	3.32E-05	14413	-0.10	3.88E-03	11673	0.20	8.56E-10
13326	0.10	7.59E-03	14422	0.10	3.20E-03	11680	-0.10	1.93E-04
13340	0.10	1.45E-04	14429	-0.10	7.24E-03	11686	0.10	4.93E-03
13344	0.10	5.80E-04	14436	-0.10	1.03E-03	11693	-0.10	8.65E-03
13353	0.10	5.34E-04	14450	0.20	9.68E-08	11702	0.10	9.21E-03
13361	0.10	3.72E-05	14451	-0.20	1.41E-06	11704	0.10	1.35E-04
13363	-0.10	4.87E-03	14454	0.10	2.21E-03	11705	-0.10	6.82E-03
13378	-0.20	3.68E-04	14469	-0.10	8.03E-04	11735	0.10	2.66E-03
13379	-0.10	5.95E-03	14472	0.10	7.34E-03	11742	0.20	1.12E-04
13383	0.20	5.60E-09	14476	0.10	6.98E-03	11743	-0.20	3.47E-07
13389	-0.10	3.28E-03	14489	-0.10	2.26E-03	11756	0.10	3.06E-03
13392	-0.10	1.79E-05	14508	0.20	1.83E-07	11757	0.10	1.63E-03
13396	-0.10	8.35E-06	14534	-0.10	1.63E-04	11767	0.20	7.57E-04
13407	0.10	4.16E-04	14549	0.10	3.89E-03	11769	-0.10	8.41E-04
13435	0.20	2.20E-05	14571	-0.10	1.27E-04	11780	-0.10	2.11E-03
13441	0.20	2.22E-17	14575	-0.20	9.50E-04	11791	0.20	4.57E-06

13447	-0.10	5.83E-03	14582	-0.20	4.80E-09	11799	-0.20	2.22E-04
13461	-0.10	4.56E-03	14583	0.10	5.60E-03	11815	0.10	2.29E-03
13466	-0.10	7.16E-08	14586	0.10	2.33E-04	11825	0.10	4.76E-03
13470	-0.10	2.71E-03	14603	0.10	4.30E-03	11833	-0.10	7.92E-04
13473	0.20	9.95E-03	14615	0.10	8.65E-07	11843	0.10	1.06E-03
13475	-0.10	1.81E-06	14616	0.20	3.61E-05	11844	0.10	9.66E-05
13477	0.10	5.06E-04	14636	-0.20	2.98E-05	11873	-0.10	7.19E-03
13483	0.10	1.98E-04	14659	0.10	7.09E-03	11875	0.30	7.92E-07
13495	-0.10	3.08E-05	14667	0.10	7.62E-03	11887	-0.10	1.42E-03
13496	-0.20	1.46E-07	14668	0.10	1.24E-03	11894	-0.10	3.17E-03
13527	-0.10	5.95E-03	14677	0.10	1.01E-04	11902	0.20	1.51E-03
13532	0.10	1.80E-03	14694	-0.10	7.16E-03	11907	-0.10	1.45E-04
13551	-0.20	4.34E-05	14699	-0.10	8.12E-07	11912	-0.20	8.61E-06
13552	0.20	1.97E-10	14705	0.10	2.10E-04	11917	-0.20	8.08E-04
13554	0.10	4.27E-04	14707	-0.20	3.92E-03	11929	0.10	4.25E-03
13560	0.10	7.49E-03	14708	0.10	5.63E-03	11935	-0.10	2.25E-05
13565	0.10	5.68E-04	14748	-0.10	4.33E-03	11939	-0.10	8.58E-05
13605	-0.10	1.42E-03	14767	0.10	5.74E-03	11944	-0.10	9.10E-03
13607	0.20	3.37E-08	14777	0.10	1.59E-05	11950	0.10	4.47E-06
13611	0.10	1.13E-07	14780	-0.10	4.28E-04	11959	0.10	5.14E-03
13627	0.20	4.02E-06	14781	-0.20	6.52E-04	11960	-0.10	6.69E-03
13635	-0.10	3.80E-03	14791	0.10	1.38E-05	11963	0.10	9.98E-03
13637	-0.10	6.48E-03	14797	0.10	7.00E-07	11966	-0.10	7.09E-05
13646	-0.10	2.95E-03	14801	0.20	4.16E-08	11967	0.10	1.35E-03
13654	-0.10	7.00E-03	14808	0.10	3.59E-06	11982	0.10	5.34E-03
13684	0.10	6.14E-03	14817	0.10	5.43E-03	11998	-0.10	7.08E-03
13687	0.10	1.40E-04	14818	0.10	3.75E-04	12009	0.10	4.06E-03
13712	0.10	2.60E-03	14820	-0.20	4.84E-07	12030	0.10	2.56E-04
13720	0.10	6.70E-05	14838	0.20	4.72E-03	12046	0.20	5.21E-06
13734	0.10	4.37E-04	14841	0.20	1.94E-11	12052	-0.20	7.41E-04
13747	0.10	5.78E-07	14844	-0.20	3.23E-03	12060	-0.10	4.84E-03
13754	-0.20	1.17E-04	14860	-0.10	1.17E-06	12062	-0.20	9.83E-07
13767	0.10	5.41E-05	14866	0.10	2.68E-05	12066	-0.10	2.21E-07
13769	0.10	3.10E-03	14876	-0.20	9.78E-05	12081	-0.10	2.15E-06
13772	-0.10	2.84E-03	14884	-0.10	1.15E-03	12086	-0.10	2.47E-03
13775	-0.20	1.86E-05	14908	0.10	1.11E-03	12093	0.20	6.16E-10
13783	0.10	5.03E-06	14925	0.10	1.81E-05	12095	-0.10	5.74E-04
13795	0.10	1.55E-03	14932	0.10	2.47E-03	10101	-0.10	7.37E-04

13806	0.10	4.29E-06
13826	0.10	2.53E-03
13827	0.30	9.30E-19
13837	-0.10	3.36E-05
13838	-0.10	5.81E-04
13847	0.20	2.43E-12
13860	0.10	4.57E-03
13867	-0.20	3.56E-05
13871	-0.10	7.38E-03
10054	0.10	4.28E-06
9928	0.10	2.71E-03
9929	0.30	1.92E-06
9935	0.20	1.61E-10
9936	0.10	1.50E-05
9952	0.10	5.71E-05
9953	0.10	2.16E-03
9956	-0.10	3.77E-03
9968	-0.10	3.60E-03
9969	-0.10	4.42E-05
9975	0.10	2.02E-03

14944	-0.30	3.51E-04
14948	-0.10	3.20E-04
14972	0.10	6.05E-05
14996	-0.10	2.42E-04
15001	0.10	1.34E-04
15022	0.10	1.93E-04
15023	-0.10	6.20E-04
15033	0.10	6.14E-04
15050	-0.10	4.89E-04
9976	-0.10	5.14E-03
9877	0.10	9.84E-03
9879	-0.10	5.58E-03
9886	0.10	1.66E-04
9894	0.20	4.54E-09
9899	-0.10	3.74E-03
9908	-0.10	2.03E-03
9910	0.10	1.03E-04
9919	0.10	2.15E-03
9923	0.10	9.05E-03

10105	0.10	1.01E-04
10106	-0.20	8.31E-03
10115	-0.10	5.37E-04
10120	-0.10	5.44E-03
10124	0.10	3.18E-03
10132	0.20	3.56E-12
10143	0.10	8.81E-03
10147	-0.10	3.30E-07
10150	0.10	5.72E-06

TABLE 23 - GENETIC MARKERS FOR BONE QUALITY

A	B	C	A	B	C	A	B	C	A	B	C
1	0.10	1.04E-04	7166	-0.10	7.89E-03	3788	-0.20	1.03E-07	10838	0.14	8.52E-07
3	0.10	1.16E-06	7170	0.10	5.77E-04	3793	-0.10	1.01E-06	10842	0.20	1.37E-07
8	0.10	1.82E-04	7181	-0.20	8.24E-03	3796	-0.20	1.91E-05	10853	0.10	7.98E-04
13	0.10	1.46E-04	7182	-0.10	1.56E-05	3797	-0.20	8.36E-05	10859	-0.10	3.81E-03
15	0.20	1.49E-04	7184	-0.10	6.40E-03	3801	0.10	4.16E-03	10865	0.18	1.19E-08
17	0.10	4.31E-05	7188	-0.10	4.19E-03	3804	0.10	8.53E-04	10872	-0.16	5.39E-07
22	-0.10	7.83E-06	7189	0.10	2.69E-03	3810	-0.20	5.54E-10	10877	0.13	4.56E-03
24	-0.10	9.10E-03	7195	-0.20	7.96E-08	3812	-0.10	3.48E-07	10888	-0.13	9.60E-05
26	0.10	8.89E-05	7196	-0.10	2.55E-05	3825	0.20	8.92E-05	10891	-0.12	1.47E-04
32	-0.10	6.10E-06	7197	-0.10	4.52E-05	3839	0.10	2.01E-04	10898	0.21	3.02E-05
35	-0.10	2.24E-04	7198	-0.10	6.80E-03	3840	0.10	6.48E-04	10913	-0.15	4.26E-08
36	-0.20	1.77E-07	7199	-0.10	9.40E-05	3841	-0.10	4.28E-03	10923	-0.20	4.02E-06
39	-0.30	6.94E-07	7200	-0.10	2.21E-04	3846	-0.20	1.59E-03	10924	0.15	6.79E-08
46	-0.20	2.33E-08	7202	-0.20	4.32E-03	3856	0.10	8.85E-04	10926	-0.16	8.90E-04
52	-0.20	1.82E-15	7204	0.20	2.90E-11	3859	-0.10	4.95E-04	10934	-0.12	1.04E-03
54	0.10	5.05E-03	7205	-0.10	4.65E-04	3861	-0.10	1.95E-04	10940	-0.07	8.95E-03
63	-0.10	1.35E-04	7208	-0.10	3.91E-04	3862	0.10	2.41E-04	10942	0.11	1.27E-03
66	-0.20	7.83E-11	7218	-0.10	2.30E-04	3866	0.20	2.03E-08	10943	-0.13	3.20E-03
67	0.10	1.59E-03	7223	-0.20	5.50E-08	3877	0.10	1.43E-04	10944	0.10	1.31E-03
71	-0.20	2.09E-06	7225	-0.30	2.91E-06	3878	-0.20	1.17E-09	10948	-0.17	1.14E-08
73	0.10	1.86E-04	7229	0.10	6.14E-04	3879	-0.10	5.24E-06	10952	0.20	3.50E-10
77	-0.10	1.71E-07	7230	0.10	3.48E-03	3884	-0.10	2.30E-05	10965	0.16	1.72E-08
82	-0.10	1.31E-04	7231	0.10	1.20E-03	3885	0.20	1.82E-14	10980	0.11	8.77E-05
93	0.10	1.56E-03	7232	-0.10	1.79E-05	3889	-0.20	6.93E-05	10985	-0.14	8.77E-08
99	0.20	2.94E-13	7233	0.10	3.72E-03	3894	0.10	3.36E-03	10987	-0.24	6.50E-10
101	-0.30	2.57E-37	7239	-0.20	3.01E-03	3895	-0.10	2.79E-03	10992	-0.08	7.31E-03
106	0.20	4.69E-11	7240	0.10	6.19E-04	3900	-0.10	1.82E-04	10994	0.10	6.00E-04
117	0.10	9.17E-04	7245	0.10	1.18E-03	3902	-0.10	9.97E-05	10995	-0.20	2.65E-08
121	0.10	7.42E-03	7247	-0.30	1.19E-14	3904	-0.10	8.10E-07	11013	-0.10	6.69E-04
123	-0.10	1.60E-03	7251	0.10	1.68E-06	3907	0.10	1.34E-04	11029	0.28	2.67E-17
131	0.20	8.53E-17	7255	0.20	1.55E-04	3909	-0.10	8.32E-03	11038	-0.13	1.32E-06
132	-0.10	2.31E-03	7266	-0.20	3.93E-08	3914	-0.20	6.22E-12	11065	-0.07	7.22E-03
142	-0.10	6.65E-03	7270	-0.10	1.70E-03	3915	0.10	1.92E-05	11078	-0.09	1.44E-03
143	0.10	4.61E-05	7271	-0.10	4.83E-05	3917	0.10	3.99E-04	11086	-0.13	5.01E-04
145	0.10	1.50E-04	7275	-0.30	1.99E-04	3918	-0.20	3.94E-07	11088	0.26	2.25E-20

154	-0.10	3.84E-03	7277	0.20	1.71E-06	3922	-0.10	2.61E-07	11090	0.19	1.99E-06
157	0.10	2.74E-04	7286	0.10	1.57E-03	3925	0.10	2.00E-03	11094	0.18	1.12E-07
162	-0.20	1.47E-06	7291	-0.10	2.70E-04	3926	0.20	5.89E-12	11096	0.15	2.28E-03
166	0.10	2.00E-03	7306	0.10	8.76E-03	3927	-0.20	5.71E-12	11102	0.14	2.37E-06
174	0.20	3.86E-06	7307	-0.10	7.92E-03	3929	0.10	5.42E-04	11103	0.21	1.03E-13
176	-0.20	4.44E-15	7311	-0.10	1.32E-05	3933	-0.10	3.90E-05	11108	-0.10	2.41E-04
181	0.10	5.74E-07	7315	-0.30	1.56E-11	3945	-0.20	4.23E-05	11110	-0.16	5.89E-05
183	0.10	7.35E-04	7319	-0.20	2.27E-06	3946	0.20	4.59E-15	11112	-0.13	4.09E-05
184	0.10	7.65E-04	7322	-0.10	2.54E-03	3947	-0.10	3.47E-03	11115	-0.12	6.08E-03
185	0.10	2.77E-04	7323	-0.10	3.19E-03	3950	0.10	6.14E-03	11116	-0.19	8.58E-06
191	-0.10	6.01E-07	7329	-0.30	5.73E-06	3956	-0.10	3.46E-04	11117	0.21	7.38E-05
194	0.10	9.63E-04	7331	0.30	2.08E-08	3957	-0.10	6.69E-03	11127	-0.19	2.06E-10
198	0.10	2.39E-04	7335	-0.10	4.17E-03	3967	-0.20	3.21E-03	11130	-0.10	3.34E-03
203	-0.10	7.09E-03	7340	-0.20	1.21E-07	3969	-0.20	8.44E-08	11132	0.16	1.23E-06
206	0.10	5.88E-04	7345	0.10	6.93E-04	3971	0.10	3.78E-03	11139	-0.15	1.28E-08
209	0.10	8.77E-03	7357	0.10	3.05E-06	3972	0.20	3.30E-06	11142	0.15	1.11E-06
212	0.10	3.92E-03	7358	0.20	4.55E-08	3975	0.10	1.01E-04	11143	-0.13	1.63E-05
219	0.10	2.63E-04	7360	-0.10	8.91E-03	3978	-0.20	1.21E-09	11149	0.12	2.14E-05
220	-0.20	4.07E-07	7361	0.10	2.12E-05	3983	0.10	2.85E-08	11151	0.14	2.49E-03
222	-0.20	2.47E-12	7362	-0.20	2.14E-08	3994	0.10	1.03E-03	11152	0.11	1.18E-04
226	-0.10	6.68E-03	7374	0.20	1.07E-09	3996	-0.10	1.90E-03	11153	-0.22	3.37E-15
231	-0.10	8.02E-04	7390	0.10	1.62E-03	4002	-0.10	9.53E-03	11157	-0.09	5.06E-03
235	-0.10	1.04E-03	7396	0.20	1.26E-12	4015	0.10	2.42E-03	11172	-0.13	2.97E-06
243	-0.10	7.30E-03	7399	0.10	8.80E-03	4023	-0.10	8.01E-03	11173	0.14	1.63E-06
244	-0.10	1.34E-04	7400	0.10	8.70E-03	4025	0.20	4.04E-08	11174	0.18	2.71E-09
245	0.10	2.09E-03	7402	-0.10	6.10E-03	4027	0.10	1.34E-06	11181	-0.21	1.88E-05
373											
249	-0.10	2.25E-05	7403	-0.20	7.76E-05	4028	-0.20	2.03E-09	11184	0.12	5.13E-05
257	0.10	8.95E-05	7404	-0.20	6.50E-05	4030	-0.10	4.56E-04	11188	0.10	2.22E-04
262	-0.10	1.77E-03	7410	0.20	6.79E-10	4031	-0.20	9.65E-03	11196	0.13	5.97E-07
263	0.20	1.18E-04	7412	-0.10	4.71E-03	4032	0.20	1.89E-08	11206	-0.08	6.61E-03
270	0.10	6.67E-05	7421	-0.10	3.64E-05	4040	-0.10	1.92E-05	11208	-0.10	9.76E-03
272	-0.20	2.81E-09	7424	0.10	2.38E-03	4041	-0.10	2.32E-04	11222	-0.10	9.72E-03
282	0.10	5.28E-04	7426	0.20	5.65E-08	4044	-0.20	5.90E-11	11233	-0.09	3.06E-03
283	-0.10	9.66E-03	7427	-0.20	4.02E-07	4045	0.20	3.42E-07	11237	0.12	8.15E-04
284	-0.10	8.70E-03	7429	0.20	1.66E-12	4049	0.10	7.84E-03	11239	-0.16	7.38E-06
285	-0.10	6.28E-05	7430	-0.10	1.33E-03	4050	0.10	1.73E-03	11241	0.10	5.57E-03
298	0.10	8.59E-05	7431	0.10	1.44E-03	4051	-0.20	3.31E-13	11244	0.09	6.56E-04

305	0.10	3.18E-06	7437	0.10	9.43E-04	4052	-0.20	1.09E-14	11249	-0.14	2.75E-07
307	0.10	1.27E-04	7439	0.10	8.87E-03	4057	0.10	4.71E-03	11251	0.11	5.04E-05
309	-0.10	9.27E-03	7441	-0.10	1.55E-05	4058	0.20	2.88E-10	11254	-0.08	6.13E-05
312	-0.10	3.78E-06	7443	-0.20	7.35E-03	4059	0.10	5.57E-03	11270	0.10	9.08E-03
315	0.20	1.68E-08	7447	-0.10	6.17E-04	4060	0.10	2.57E-04	11284	-0.14	4.98E-06
317	-0.10	1.75E-04	7448	-0.20	1.67E-10	4061	0.10	1.50E-04	11287	-0.13	9.10E-06
318	-0.10	1.47E-05	7454	-0.10	7.16E-04	4070	-0.10	8.23E-04	11288	-0.12	1.02E-03
320	-0.10	7.47E-03	7463	0.10	5.02E-04	4075	-0.20	4.47E-18	11290	-0.22	3.26E-14
321	0.20	3.83E-09	7471	-0.20	8.14E-10	4076	-0.20	3.07E-06	11292	0.22	2.65E-11
330	-0.20	1.16E-07	7477	-0.10	1.15E-03	4081	0.10	6.99E-03	11294	-0.16	9.53E-05
333	0.20	4.18E-16	7478	-0.20	7.39E-04	4082	-0.10	1.28E-04	11298	-0.18	1.77E-03
335	-0.10	3.33E-04	7496	-0.10	2.57E-04	4088	-0.10	1.38E-05	11303	-0.11	2.50E-05
336	-0.20	6.85E-11	7499	-0.10	3.38E-03	4090	0.10	9.59E-03	11305	0.14	8.30E-05
337	0.10	6.07E-08	7503	-0.10	8.20E-06	4091	-0.30	2.87E-06	11306	-0.13	4.76E-07
343	-0.40	8.04E-08	7504	-0.10	3.14E-03	4096	0.10	2.59E-04	11311	-0.10	7.64E-04
345	-0.10	5.59E-05	7506	-0.10	8.70E-03	4097	-0.10	1.69E-03	11312	0.09	3.11E-03
347	0.10	3.48E-05	7507	-0.10	8.85E-04	4098	-0.10	2.08E-06	11314	-0.16	7.11E-09
354	-0.10	8.28E-05	7509	0.10	7.65E-05	4099	-0.10	5.77E-03	11316	-0.13	7.34E-05
359	0.10	2.87E-04	7510	0.20	7.99E-03	4106	-0.20	3.17E-16	11321	-0.23	1.11E-15
370	0.20	1.94E-07	7515	-0.20	1.98E-12	4119	0.20	2.14E-03	11323	-0.14	2.03E-04
376	-0.20	3.01E-07	7516	-0.20	1.41E-12	4120	-0.10	5.54E-07	11330	-0.11	3.40E-05
377	-0.20	7.65E-04	7523	-0.10	1.36E-04	4121	-0.20	7.05E-11	11337	0.10	1.97E-04
380	0.10	5.37E-05	7527	0.20	3.35E-07	4128	0.10	2.26E-03	11340	0.18	2.57E-11
381	0.10	2.02E-05	7532	-0.20	7.02E-06	4130	-0.10	1.56E-07	11344	0.15	2.66E-06
382	0.10	7.36E-04	7540	0.10	3.42E-05	4131	-0.10	1.56E-03	11350	0.11	3.60E-04
393	0.20	5.05E-09	7545	0.10	9.34E-06	4132	0.20	5.38E-03	11359	-0.08	6.03E-03
394	-0.20	1.64E-07	7547	0.10	3.60E-03	4134	-0.10	5.50E-07	11360	0.19	1.52E-08
395	-0.10	8.63E-04	7548	-0.10	7.58E-04	4138	0.20	1.78E-03	11362	-0.23	4.07E-04
396	-0.10	1.51E-04	7549	-0.10	2.33E-06	4141	0.10	2.71E-03	11363	-0.11	4.77E-05
397	0.20	3.48E-11	7552	0.10	9.71E-03	4150	0.10	5.20E-07	11374	-0.12	9.25E-06
404	0.20	4.10E-05	7559	0.10	9.98E-04	4155	0.10	4.76E-07	11382	-0.17	4.77E-09
408	-0.20	7.20E-09	7561	0.20	3.99E-08	4156	0.10	3.17E-06	11386	-0.16	7.39E-04
412	-0.20	2.60E-05	7564	-0.10	3.56E-05	4162	-0.10	1.87E-04	11390	-0.13	1.14E-05
415	-0.10	1.52E-05	7565	-0.20	6.26E-04	4163	-0.10	9.61E-03	11391	0.09	2.79E-03
418	0.10	2.53E-03	7570	-0.10	1.42E-05	4165	-0.10	7.12E-03	11403	-0.10	5.33E-03
425	-0.20	1.51E-14	7571	0.10	1.67E-03	4166	-0.10	5.69E-03	11408	-0.12	4.74E-05
429	0.20	7.69E-11	7573	0.20	7.75E-11	4170	0.30	1.42E-15	11410	-0.07	9.80E-03
433	-0.10	5.24E-04	7575	-0.10	1.04E-03	4181	-0.10	6.70E-03	11415	-0.23	2.72E-04

443	0.10	5.70E-03	7577	0.10	2.03E-03	4183	-0.10	4.56E-04	11427	-0.13	5.01E-04
447	-0.20	3.57E-07	7578	-0.30	2.85E-15	4185	0.10	2.20E-03	11437	0.19	2.43E-06
465	-0.20	2.05E-04	7581	-0.10	6.02E-04	4187	0.10	6.28E-04	11440	-0.15	2.09E-03
467	-0.20	3.64E-11	7582	-0.10	4.71E-06	4188	-0.10	5.76E-03	11444	0.15	1.85E-06
476	0.10	1.90E-05	7584	0.10	3.51E-04	4194	-0.20	7.83E-07	11446	0.15	2.98E-06
478	0.20	5.73E-11	7596	-0.10	1.74E-05	4199	-0.10	6.42E-05	11447	-0.14	2.22E-03
479	-0.20	1.89E-03	7599	0.10	6.76E-03	4204	-0.10	1.42E-03	11456	0.09	3.97E-03
488	-0.10	1.33E-06	7601	-0.20	1.30E-06	4205	0.10	1.27E-04	11459	0.08	4.98E-03
497	-0.20	2.93E-09	7605	-0.10	3.77E-06	4212	-0.10	5.51E-04	11462	0.19	3.02E-06
499	0.20	3.08E-07	7606	0.10	1.63E-06	4214	-0.30	6.58E-07	11471	0.10	8.05E-05
507	-0.10	9.79E-03	7621	-0.10	4.96E-04	4217	0.10	8.53E-04	11475	0.14	3.61E-07
508	0.10	1.50E-04	7635	-0.20	4.94E-07	4219	0.10	1.62E-03	11485	-0.18	8.85E-06
511	-0.10	1.53E-03	7649	-0.20	5.84E-06	4231	0.20	6.80E-13	11489	0.20	1.62E-04
522	-0.10	6.22E-03	7651	0.30	1.06E-03	4234	-0.20	2.47E-10	11497	0.20	2.69E-08
374											
525	-0.10	6.46E-03	7652	-0.20	3.37E-06	4236	0.20	1.22E-03	11501	0.12	1.38E-05
528	0.10	2.12E-03	7653	0.10	3.19E-03	4243	-0.10	2.32E-03	11511	0.18	1.31E-04
529	-0.10	2.04E-04	7654	0.10	4.70E-03	4244	-0.20	8.80E-14	11512	0.19	4.12E-05
531	0.10	1.47E-04	7657	0.10	3.85E-03	4245	-0.20	2.25E-08	11541	0.12	1.42E-03
534	-0.20	1.02E-06	7658	-0.20	4.42E-03	4246	-0.10	6.24E-04	11551	-0.08	3.89E-03
535	0.20	7.03E-06	7659	-0.20	1.85E-05	4248	-0.20	1.75E-04	11553	0.11	8.77E-05
537	0.10	2.26E-09	7660	0.10	4.89E-04	4252	-0.20	4.38E-11	11556	0.20	7.77E-08
540	-0.10	1.61E-05	7663	-0.20	1.08E-03	4254	-0.20	9.93E-05	11560	-0.15	2.31E-07
544	-0.10	4.78E-03	7665	0.20	1.70E-14	4258	0.10	1.62E-03	11577	0.17	1.29E-09
550	0.20	2.22E-05	7679	0.10	4.37E-03	4259	0.20	1.26E-09	11589	0.13	7.75E-04
552	0.10	9.34E-04	7688	-0.10	1.59E-06	4261	0.10	4.37E-05	11593	0.14	1.12E-04
561	-0.20	2.51E-09	7689	0.20	3.50E-10	4265	0.10	1.76E-03	11594	0.12	2.94E-06
562	0.10	3.37E-03	7690	-0.10	2.98E-04	4266	-0.20	1.47E-03	11602	0.16	5.72E-06
563	0.10	1.93E-03	7691	-0.10	5.10E-04	4268	-0.10	1.73E-03	11605	-0.14	5.14E-07
565	0.10	2.14E-06	7693	-0.20	4.31E-05	4274	-0.10	1.97E-04	11610	-0.13	3.99E-06
570	-0.10	8.79E-06	7695	-0.10	1.02E-06	4276	-0.10	3.66E-03	11612	-0.07	9.73E-03
578	0.20	3.76E-10	7698	0.10	7.34E-03	4277	-0.20	3.63E-07	11618	0.09	5.41E-03
580	-0.20	7.94E-09	7699	0.10	2.01E-04	4278	-0.10	1.07E-05	11621	-0.14	2.02E-05
582	0.10	6.04E-07	7703	0.10	1.17E-05	4289	0.10	8.98E-04	11622	0.16	6.67E-08
583	-0.10	9.58E-05	7709	0.10	8.59E-03	4290	0.10	4.52E-03	11623	0.09	1.58E-03
586	-0.20	1.09E-12	7721	-0.20	2.23E-05	4297	0.10	5.81E-07	11628	-0.08	3.40E-03
592	0.20	9.74E-12	7722	-0.30	3.90E-11	4299	-0.10	4.70E-04	11631	0.09	9.75E-04
595	-0.20	5.36E-09	7724	0.10	4.73E-04	4301	-0.20	6.59E-06	11636	0.11	7.36E-05

609	-0.20	7.40E-03	7725	0.10	1.54E-07	4306	-0.10	2.32E-03	11647	-0.27	3.77E-07
614	-0.10	1.58E-04	7727	0.20	6.58E-09	4313	0.10	1.24E-06	11649	-0.17	2.21E-10
615	0.10	2.24E-03	7729	0.10	1.06E-03	4314	0.10	3.98E-05	11659	-0.14	7.42E-07
617	-0.20	6.56E-08	7730	0.10	2.15E-03	4315	-0.20	4.32E-10	11666	-0.26	9.48E-07
624	0.10	1.01E-04	7732	-0.20	1.40E-08	4321	-0.20	2.03E-05	11682	0.16	1.96E-06
628	0.10	7.94E-04	7736	-0.20	7.75E-04	4326	-0.10	2.20E-03	11684	0.14	3.14E-04
629	0.10	2.52E-03	7737	-0.10	1.44E-07	4328	0.20	2.31E-04	11685	-0.14	4.28E-05
633	0.20	5.67E-06	7738	0.10	3.17E-05	4332	-0.10	6.72E-05	11692	-0.25	4.32E-06
637	-0.10	3.56E-03	7742	-0.10	2.16E-05	4334	0.10	5.76E-04	11701	-0.16	1.64E-06
638	-0.10	2.59E-03	7743	0.10	8.10E-06	4339	-0.10	4.49E-05	11714	-0.12	3.12E-04
644	0.20	7.73E-12	7745	0.10	1.03E-04	4341	0.20	4.58E-09	11717	-0.11	5.60E-05
647	0.10	1.33E-05	7747	0.10	1.91E-03	4343	0.20	6.87E-08	11719	-0.21	6.69E-10
648	0.10	1.66E-03	7748	-0.20	1.15E-03	4351	0.10	1.05E-03	11722	-0.14	5.72E-07
649	0.10	1.43E-06	7750	0.20	6.03E-07	4352	0.10	1.95E-03	11743	0.12	4.35E-04
652	0.20	1.48E-05	7751	0.20	1.14E-07	4358	0.20	8.55E-05	11744	-0.10	6.45E-03
655	0.10	4.23E-04	7753	0.10	3.80E-05	4362	-0.10	5.56E-04	11745	-0.08	6.05E-03
657	-0.10	8.11E-05	7754	0.10	2.64E-03	4371	0.20	6.47E-04	11754	-0.11	9.68E-04
660	0.20	2.02E-04	7756	0.20	1.96E-04	4377	0.10	4.84E-03	11757	-0.10	2.81E-03
663	-0.10	1.39E-04	7759	-0.10	5.39E-03	4379	-0.30	2.04E-05	11758	-0.13	2.53E-03
664	-0.10	5.78E-04	7767	-0.10	5.16E-03	4386	-0.20	8.43E-11	11765	0.19	1.25E-06
665	0.10	2.47E-03	7774	0.10	1.78E-03	4387	-0.10	5.10E-04	11767	-0.13	2.68E-03
672	0.10	1.38E-04	7777	-0.20	1.03E-11	4395	0.10	4.15E-03	11771	0.10	3.51E-04
675	-0.10	8.35E-04	7781	0.20	4.61E-12	4396	0.20	9.30E-19	11788	-0.15	6.05E-04
681	0.10	7.04E-04	7785	-0.10	7.51E-04	4398	-0.20	1.63E-09	11791	-0.10	9.86E-03
690	-0.20	2.48E-06	7788	0.10	5.28E-03	4399	0.10	9.78E-03	11803	-0.10	3.00E-03
693	0.20	3.94E-04	7792	0.10	1.81E-04	4400	-0.10	2.37E-03	11806	-0.12	2.70E-03
696	0.10	1.19E-03	7796	0.10	5.32E-04	4401	-0.20	2.91E-05	11815	-0.09	2.64E-03
703	0.10	2.91E-04	7797	0.10	1.44E-04	4405	-0.20	2.31E-06	11825	0.17	8.37E-10
707	0.20	1.37E-09	7807	-0.10	9.35E-03	4413	-0.10	6.87E-03	11847	0.14	3.46E-06
718	-0.20	1.05E-12	7812	-0.10	7.27E-03	4415	-0.10	5.45E-03	11848	0.15	3.00E-03
724	-0.20	1.51E-08	7813	-0.10	4.92E-03	4417	0.10	1.48E-04	11858	0.07	8.39E-03
726	-0.10	5.05E-03	7815	-0.10	1.56E-03	4426	-0.10	1.54E-05	11861	-0.14	4.45E-04
730	-0.10	2.37E-03	7821	-0.20	5.15E-07	4430	0.10	2.51E-05	11864	0.11	6.88E-05
735	0.20	5.13E-10	7822	-0.30	1.46E-24	4446	-0.20	3.71E-08	11874	0.17	5.98E-03
736	0.10	9.48E-03	7823	0.10	1.52E-05	4447	-0.10	1.06E-04	11875	-0.24	1.79E-08
741	0.20	7.07E-03	7827	-0.10	7.15E-04	4450	-0.10	4.28E-05	11888	-0.20	1.99E-05
742	0.10	6.81E-03	7828	-0.20	6.50E-09	4451	-0.10	1.27E-03	11890	-0.15	2.80E-08
753	-0.10	8.45E-05	7831	0.10	5.76E-03	4452	-0.10	9.18E-04	11892	-0.14	5.68E-06

754	0.10	5.56E-03	7841	0.30	3.94E-08	4458	-0.10	1.72E-07	11897	0.08	8.53E-03
760	-0.30	2.54E-07	7854	-0.30	9.83E-07	4470	0.10	1.20E-07	11898	-0.14	9.13E-06
375											
761	0.10	1.17E-03	7858	-0.10	1.05E-04	4471	-0.20	3.14E-03	11900	-0.22	2.72E-09
766	0.20	5.83E-13	7860	-0.10	9.76E-05	4472	-0.10	1.74E-05	11901	0.12	5.62E-06
769	-0.20	2.19E-09	7861	-0.10	2.48E-04	4476	-0.10	2.72E-06	11902	-0.14	1.93E-03
770	-0.20	1.23E-03	7863	0.10	2.28E-03	4477	-0.20	1.99E-08	11903	0.16	9.19E-05
776	0.20	2.43E-15	7869	-0.30	1.02E-05	4478	-0.20	1.58E-12	11918	0.12	6.65E-05
777	-0.20	2.26E-06	7871	0.10	2.76E-03	4485	-0.10	4.42E-04	11920	0.09	6.43E-03
779	-0.30	1.66E-15	7872	0.10	5.13E-03	4487	0.20	1.79E-13	11929	0.06	8.21E-03
784	-0.10	3.68E-03	7873	0.10	1.68E-04	4491	-0.10	2.64E-05	11931	0.08	7.10E-03
794	0.30	1.05E-06	7874	0.10	1.45E-04	4493	-0.10	1.56E-03	11932	-0.10	5.51E-03
801	-0.20	3.80E-06	7875	-0.20	6.34E-06	4501	0.20	1.26E-07	11935	0.11	8.20E-04
808	-0.10	7.78E-05	7876	-0.10	4.01E-04	4506	0.10	7.27E-04	11940	-0.10	6.80E-04
812	0.20	6.16E-12	7879	-0.10	1.07E-03	4512	-0.10	2.91E-03	11959	0.15	1.90E-04
829	0.20	2.59E-11	7889	-0.10	2.09E-07	4522	-0.10	5.36E-04	11961	-0.14	1.40E-07
833	-0.20	3.78E-04	7891	-0.10	1.61E-04	4523	0.10	8.38E-05	11963	0.09	1.30E-03
837	-0.10	1.47E-04	7894	0.10	8.46E-03	4524	0.20	7.24E-04	11967	-0.17	4.23E-06
840	-0.20	2.59E-09	7895	0.20	9.17E-03	4528	-0.30	1.55E-09	11972	-0.19	1.82E-03
843	0.10	2.77E-04	7899	-0.10	7.79E-04	4529	-0.20	9.63E-06	11976	-0.16	1.30E-04
844	0.10	4.40E-06	7900	-0.20	4.85E-07	4536	0.10	4.26E-06	11982	-0.17	5.45E-04
846	-0.20	7.33E-06	7906	-0.10	4.09E-05	4537	-0.20	8.40E-05	12000	-0.18	2.03E-10
847	0.10	1.11E-03	7911	-0.30	2.10E-04	4541	-0.20	5.65E-09	12022	-0.27	3.17E-07
854	-0.10	1.16E-03	7914	0.10	8.78E-08	4542	0.20	3.84E-16	12030	-0.11	2.97E-05
856	0.10	5.16E-05	7915	0.10	9.30E-04	4543	0.20	1.56E-04	12032	0.13	2.07E-05
858	-0.10	4.93E-07	7916	0.10	1.51E-05	4544	-0.10	1.52E-03	12039	0.08	2.23E-03
860	-0.10	2.44E-03	7924	0.10	6.91E-04	4550	-0.10	3.00E-03	12045	-0.22	1.79E-04
864	0.20	5.90E-08	7933	0.10	6.59E-03	4551	-0.20	7.64E-06	12062	0.15	8.61E-03
867	-0.10	5.12E-06	7939	0.20	4.03E-10	4554	0.20	1.36E-08	12063	0.10	3.01E-03
873	-0.10	8.58E-04	7940	0.10	3.05E-05	4560	-0.10	3.16E-04	12064	0.09	1.85E-03
883	0.20	1.18E-07	7942	-0.10	1.01E-05	4561	0.10	8.02E-04	12067	-0.14	5.77E-04
885	-0.20	5.96E-06	7950	-0.10	1.72E-03	4565	0.20	8.51E-05	12073	-0.19	4.61E-06
893	-0.10	2.13E-04	7951	0.10	2.15E-03	4567	-0.10	5.44E-04	12076	0.12	1.58E-05
894	-0.20	1.61E-03	7958	-0.20	4.14E-03	4568	-0.10	2.20E-04	12090	0.11	6.31E-05
896	0.10	3.57E-03	7959	-0.20	1.49E-08	4572	-0.20	4.49E-04	12091	0.14	8.62E-04
912	0.20	5.13E-05	7964	0.10	3.20E-05	4575	0.10	1.30E-03	12107	-0.12	5.06E-03
919	0.10	5.04E-03	7965	0.20	3.67E-13	4576	0.10	1.40E-06	12118	-0.14	3.39E-03
928	0.20	9.56E-12	7966	-0.20	4.71E-06	4577	-0.10	1.22E-03	12132	0.15	8.80E-09

934	-0.10	5.08E-06	7981	0.10	5.83E-03	4578	0.10	6.46E-03	12153	-0.13	8.42E-05
935	-0.10	2.89E-04	7982	0.10	3.54E-06	4581	0.20	2.95E-10	12154	-0.19	7.83E-12
936	-0.10	5.72E-04	7983	0.10	1.99E-03	4582	0.10	1.76E-03	12157	-0.13	8.23E-03
937	-0.30	2.98E-05	7987	-0.10	7.09E-03	4583	0.10	6.02E-07	12162	-0.12	2.97E-05
939	0.10	9.03E-06	7997	0.20	9.41E-06	4584	0.20	1.13E-09	12165	0.14	6.69E-03
944	-0.20	5.13E-06	8002	-0.10	3.54E-03	4586	-0.10	1.33E-03	12166	-0.23	5.83E-10
945	0.20	1.97E-13	8006	-0.10	7.71E-06	4589	0.10	1.98E-04	12168	0.13	7.01E-06
948	0.10	3.11E-04	8007	-0.30	2.89E-04	4599	0.10	2.62E-04	12170	-0.12	2.40E-04
949	-0.20	9.43E-13	8009	-0.10	5.82E-03	4602	0.30	1.78E-22	12174	-0.14	7.01E-08
951	-0.10	8.01E-04	8012	-0.20	6.72E-09	4606	-0.10	2.64E-07	12177	0.16	6.26E-06
954	0.20	1.58E-13	8013	-0.20	9.53E-05	4607	-0.10	1.47E-07	12186	0.12	2.90E-06
963	-0.20	9.64E-05	8015	0.10	7.68E-03	4608	-0.10	3.21E-04	12190	-0.12	2.22E-05
964	0.20	7.24E-05	8016	-0.10	4.42E-03	4611	0.10	4.17E-03	12194	-0.14	3.54E-03
975	0.10	1.26E-04	8018	0.10	9.08E-03	4616	-0.10	4.21E-05	12200	0.14	2.84E-07
979	0.10	1.16E-07	8022	-0.10	1.03E-03	4619	-0.20	7.64E-11	12208	0.19	7.16E-13
983	-0.20	1.05E-04	8024	-0.10	2.15E-04	4620	0.10	4.09E-05	12214	0.14	1.08E-04
984	0.10	9.18E-06	8028	-0.10	2.90E-04	4622	-0.20	1.50E-11	12215	-0.21	3.77E-06
1001	0.10	7.47E-04	8031	0.20	1.28E-04	4627	-0.20	1.54E-04	12219	-0.08	8.83E-03
1004	-0.10	1.23E-04	8032	-0.10	4.27E-04	4629	0.10	1.07E-04	12226	-0.10	7.17E-03
1009	-0.10	4.19E-03	8034	0.20	3.09E-15	4634	-0.20	3.69E-05	12228	-0.24	4.87E-06
1010	-0.10	3.95E-03	8035	0.20	3.98E-15	4644	0.10	3.77E-04	12230	0.18	2.59E-04
1012	0.20	6.77E-09	8037	-0.20	3.07E-07	4648	0.10	5.66E-03	12232	0.09	1.58E-03
1015	0.10	8.97E-03	8038	0.20	1.36E-03	4651	0.10	1.21E-05	12235	-0.14	5.13E-04
1016	-0.10	5.57E-05	8040	0.10	1.54E-03	4654	-0.20	6.85E-06	12240	0.14	2.10E-06
1021	0.10	2.64E-03	8045	0.10	2.63E-03	4664	0.10	1.08E-07	12241	-0.21	9.69E-06
1027	0.10	4.42E-03	8052	0.10	5.47E-04	4670	-0.10	6.60E-05	12242	-0.14	1.50E-07
1029	-0.10	1.26E-05	8055	0.20	1.36E-07	4671	-0.20	1.20E-06	12253	-0.09	3.19E-03
1037	-0.20	9.89E-07	8062	-0.20	3.13E-06	4675	0.10	1.07E-03	12273	-0.09	1.69E-03
376											
1043	-0.10	8.05E-06	8063	-0.20	1.02E-06	4678	0.20	7.63E-10	12275	0.18	3.69E-09
1044	-0.20	6.50E-06	8070	0.10	1.03E-07	4679	-0.20	1.02E-12	12284	0.09	2.15E-03
1045	-0.10	1.54E-03	8071	0.10	1.14E-03	4683	-0.10	7.26E-03	12286	0.18	2.12E-05
1049	-0.20	4.96E-11	8072	0.10	9.33E-04	4687	0.10	3.59E-03	12288	0.11	3.58E-04
1050	-0.10	3.66E-04	8085	-0.10	6.48E-05	4688	0.10	6.71E-04	12291	0.23	4.57E-18
1052	-0.10	7.67E-03	8086	0.10	3.98E-03	4689	-0.10	1.02E-03	12293	-0.20	1.76E-08
1056	0.20	1.11E-14	8087	-0.10	1.12E-03	4690	-0.20	4.80E-07	12294	-0.14	3.34E-03
1062	-0.10	5.65E-04	8089	0.20	5.55E-06	4691	-0.20	1.20E-10	12308	0.14	9.02E-06
1065	-0.10	1.46E-05	8093	-0.10	8.92E-04	4692	-0.10	7.97E-04	12316	-0.27	2.06E-05

1069	-0.10	8.19E-03	8094	0.10	1.12E-06	4694	-0.10	2.26E-04	12317	0.11	1.30E-04
1084	0.20	9.70E-08	8097	0.10	2.35E-04	4696	-0.10	5.21E-06	12322	0.09	2.38E-04
1087	-0.10	9.90E-04	8100	0.20	7.06E-07	4697	0.20	4.81E-03	12336	0.09	1.11E-03
1089	-0.10	1.12E-04	8102	-0.10	7.11E-03	4702	0.10	3.77E-04	12343	-0.18	5.67E-04
1090	-0.20	4.82E-03	8103	-0.10	1.03E-05	4703	0.20	3.11E-07	12344	0.15	1.57E-07
1094	0.10	3.10E-06	8105	0.20	1.71E-08	4728	0.10	8.89E-05	12353	0.08	3.92E-03
1097	-0.20	2.49E-11	8111	-0.30	3.98E-28	4732	0.10	1.32E-04	12356	-0.17	3.09E-07
1098	-0.20	2.58E-08	8117	0.10	3.95E-04	4737	-0.10	3.76E-04	12358	-0.15	6.16E-08
1099	-0.10	3.42E-05	8119	-0.10	9.96E-05	4738	-0.10	2.47E-04	12365	-0.15	5.55E-07
1100	-0.20	1.47E-06	8127	0.20	1.12E-09	4739	-0.10	1.49E-03	12368	0.09	1.99E-04
1105	-0.10	1.30E-03	8132	-0.10	6.25E-06	4740	-0.10	2.21E-03	12376	0.14	7.96E-06
1108	-0.10	2.06E-05	8133	0.10	5.10E-03	4748	0.10	7.21E-03	12378	-0.26	2.15E-03
1110	-0.20	2.30E-18	8134	0.20	6.12E-06	4753	-0.20	7.11E-11	12381	-0.09	8.70E-03
1113	-0.10	3.60E-03	8137	-0.10	1.87E-03	4757	-0.20	1.08E-08	12393	0.10	3.17E-04
1121	-0.10	9.10E-03	8142	-0.10	4.39E-04	4758	-0.10	8.18E-04	12394	0.09	6.52E-04
1123	0.10	5.62E-05	8143	-0.10	5.03E-04	4760	-0.10	8.40E-05	12401	-0.08	3.48E-03
1139	0.10	5.29E-07	8146	0.20	1.69E-10	4761	-0.10	7.16E-05	12409	0.23	2.35E-18
1140	0.20	2.38E-09	8149	0.10	6.22E-08	4763	-0.10	1.01E-06	12411	0.24	9.63E-07
1142	-0.10	5.37E-03	8150	0.20	3.43E-06	4765	-0.20	1.88E-11	12438	0.15	4.93E-04
1149	-0.10	2.70E-04	8163	-0.10	2.17E-05	4771	-0.30	2.85E-08	12443	0.15	1.49E-06
1152	0.10	3.06E-03	8168	-0.10	1.10E-05	4775	-0.20	2.79E-07	12462	0.08	3.41E-03
1161	0.10	1.15E-06	8174	0.20	3.04E-04	4780	0.10	6.65E-07	12463	-0.09	1.50E-03
1162	0.10	3.56E-03	8183	-0.10	1.17E-03	4781	0.10	5.14E-04	12465	-0.15	9.96E-04
1167	-0.10	9.89E-03	8188	0.10	1.45E-04	4786	-0.20	2.08E-07	12469	-0.24	6.46E-09
1170	-0.10	9.28E-07	8190	-0.20	5.98E-05	4787	-0.20	8.21E-05	12481	0.11	4.63E-03
1171	0.10	9.27E-04	8191	-0.10	8.76E-04	4789	-0.10	8.26E-03	12482	-0.21	8.63E-07
1176	0.10	5.13E-05	8192	0.10	1.21E-06	4796	-0.10	2.75E-03	12486	0.17	7.24E-03
1183	0.10	8.26E-04	8194	-0.20	5.14E-08	4800	-0.30	1.13E-08	12487	-0.13	6.08E-03
1187	0.10	1.10E-04	8196	-0.10	1.77E-05	4807	0.10	1.34E-04	12498	0.21	1.09E-14
1188	0.10	1.39E-04	8197	-0.20	7.50E-04	4811	0.10	5.91E-03	12499	-0.07	9.59E-03
1191	-0.10	2.07E-04	8199	0.10	4.11E-03	4816	-0.20	4.31E-03	12500	-0.13	2.34E-03
1193	0.10	6.15E-06	8219	0.10	5.94E-03	4821	-0.10	4.32E-04	12503	0.09	3.66E-03
1194	0.20	1.98E-08	8223	0.20	7.37E-03	4827	0.10	3.61E-04	12509	-0.20	3.99E-07
1195	0.10	1.12E-03	8228	0.10	1.03E-06	4831	-0.10	1.86E-05	12516	0.12	6.73E-03
1200	-0.20	1.46E-03	8230	-0.10	4.55E-03	4839	-0.10	8.28E-04	12518	0.11	3.35E-05
1212	0.10	5.33E-03	8233	-0.10	2.08E-07	4848	-0.10	3.66E-03	12519	-0.13	2.13E-05
1217	0.30	8.13E-09	8235	-0.10	1.02E-04	4849	-0.20	1.41E-11	12521	0.10	2.28E-04
1218	-0.10	7.68E-03	8240	-0.20	3.30E-09	4852	0.10	1.42E-04	12522	-0.11	2.94E-05

1229	-0.10	1.56E-03	8241	-0.10	2.82E-03	4854	-0.20	4.14E-09	12524	0.09	1.03E-03
1230	0.20	2.73E-03	8243	-0.10	5.69E-04	4859	-0.10	2.49E-06	12528	-0.12	3.33E-03
1237	-0.10	8.36E-03	8246	-0.20	1.24E-03	4863	-0.10	1.22E-06	12529	0.12	5.16E-05
1238	0.10	1.31E-04	8247	-0.10	4.00E-03	4864	-0.30	9.13E-21	12531	-0.13	2.17E-07
1239	-0.20	7.00E-07	8248	0.20	1.04E-07	4868	-0.10	4.57E-04	12536	-0.11	3.85E-04
1241	0.20	1.67E-03	8255	-0.10	8.13E-04	4869	-0.10	3.97E-04	12545	-0.21	2.95E-03
1244	0.10	1.15E-07	8259	0.10	1.39E-05	4876	0.10	7.26E-06	12546	-0.11	6.85E-05
1252	-0.10	2.28E-03	8270	0.10	5.84E-04	4880	-0.30	1.91E-05	12547	-0.09	1.34E-03
1254	-0.10	1.18E-03	8271	0.10	5.40E-04	4882	-0.10	6.07E-03	12565	0.15	2.48E-04
1256	0.10	2.22E-03	8276	-0.10	2.88E-04	4885	0.20	2.34E-07	12566	-0.09	2.57E-03
1264	0.10	3.53E-04	8286	0.30	3.79E-04	4886	0.20	1.64E-03	12577	-0.13	6.49E-06
1265	0.10	3.93E-04	8287	-0.10	1.29E-07	4887	-0.10	1.26E-03	12581	-0.09	8.36E-03
1267	0.10	2.46E-06	8289	-0.20	2.00E-16	4890	-0.20	8.50E-07	12583	-0.14	1.86E-03
1268	-0.10	6.37E-03	8290	-0.20	1.64E-07	4893	0.10	1.98E-06	12590	-0.15	1.03E-03
1272	-0.10	3.21E-03	8300	-0.10	1.10E-03	4894	-0.10	2.96E-04	12591	-0.10	3.84E-04
1276	-0.10	3.90E-03	8312	0.10	2.93E-03	4898	0.10	5.93E-04	12592	0.09	9.65E-03
377											
1281	0.10	8.63E-03	8318	-0.10	5.26E-03	4905	-0.20	1.30E-04	12597	-0.19	1.64E-10
1283	0.20	2.19E-05	8319	0.20	1.03E-09	4911	0.10	1.23E-03	12598	-0.24	3.13E-11
1287	-0.20	1.05E-10	8321	-0.20	5.23E-06	4916	-0.10	1.15E-03	12599	0.08	1.41E-03
1291	0.20	6.07E-13	8332	-0.10	1.87E-03	4920	0.10	1.54E-06	12604	-0.15	1.40E-03
1299	-0.20	7.63E-05	8336	-0.20	1.78E-09	4927	-0.10	1.80E-03	12606	-0.16	1.16E-06
1305	0.20	2.07E-08	8338	-0.10	3.08E-03	4934	0.10	2.50E-04	12609	-0.12	1.16E-04
1309	0.20	1.24E-07	8339	0.10	1.66E-04	4936	-0.10	1.15E-04	12610	-0.22	6.14E-05
1317	0.10	9.90E-03	8340	-0.10	1.67E-03	4938	0.10	3.62E-04	12611	-0.07	6.26E-03
1319	0.10	1.43E-03	8343	0.10	3.17E-04	4951	0.10	4.02E-07	12613	-0.26	7.45E-17
1320	-0.10	1.36E-05	8346	-0.20	8.75E-03	4952	0.10	2.07E-03	12615	-0.12	6.87E-06
1339	-0.20	1.03E-12	8347	-0.10	5.46E-04	4953	0.10	2.45E-03	12625	0.12	6.12E-06
1341	-0.20	5.62E-06	8351	0.10	3.72E-05	4964	-0.20	5.08E-08	12627	-0.18	2.71E-03
1347	0.10	1.90E-03	8353	-0.20	1.14E-12	4966	0.10	1.54E-05	12630	0.16	9.11E-05
1348	-0.20	4.52E-07	8358	-0.10	9.41E-04	4967	0.10	1.89E-04	12635	0.12	9.84E-03
1349	-0.10	2.22E-03	8360	0.20	1.21E-07	4970	-0.20	1.07E-04	12642	0.10	3.06E-04
1354	-0.10	7.29E-03	8367	-0.10	2.28E-07	4976	-0.20	1.09E-06	12644	-0.15	6.36E-06
1355	0.10	1.19E-06	8368	-0.10	4.19E-03	4978	-0.30	7.53E-06	12656	-0.22	6.24E-14
1364	0.20	1.13E-09	8372	-0.10	4.19E-03	4979	0.10	4.16E-03	12657	0.09	6.26E-03
1370	-0.30	9.40E-07	8383	0.20	2.03E-08	4986	-0.20	7.23E-08	12668	-0.26	1.60E-16
1373	0.10	5.83E-05	8384	-0.30	9.69E-06	4991	-0.10	2.08E-03	12673	-0.14	9.18E-06
1380	-0.30	4.23E-12	8386	0.10	3.94E-04	4996	-0.20	1.10E-07	12674	0.08	2.45E-03

1385	-0.20	1.57E-17	8387	0.10	1.93E-04	5010	-0.20	4.38E-07	12675	-0.23	5.30E-13
1389	0.20	3.26E-05	8388	-0.10	8.59E-04	5025	0.10	1.02E-07	12676	-0.13	1.08E-04
1390	-0.30	4.92E-07	8391	-0.20	2.27E-12	5026	-0.10	2.63E-03	12682	0.14	2.23E-04
1395	0.10	1.75E-04	8392	0.10	8.76E-03	5032	0.20	2.01E-03	12683	-0.18	3.24E-11
1396	-0.10	2.96E-05	8395	-0.10	5.77E-06	5037	-0.20	2.04E-14	12684	0.17	3.80E-08
1399	-0.10	1.89E-05	8397	0.20	3.31E-09	5044	-0.10	4.24E-03	12687	-0.13	2.20E-03
1401	-0.10	5.75E-05	8398	0.10	4.62E-07	5047	0.20	2.05E-03	12689	0.19	3.65E-05
1406	-0.20	5.11E-10	8402	-0.20	4.00E-07	5057	-0.20	2.10E-08	12691	0.10	6.56E-04
1409	0.10	2.46E-03	8405	0.10	9.94E-04	5060	0.10	6.93E-03	12692	0.23	2.47E-09
1410	-0.10	2.15E-06	8406	0.10	2.74E-03	5061	-0.20	6.91E-04	12699	-0.10	4.80E-03
1411	0.20	4.28E-07	8411	-0.10	4.08E-05	5063	-0.20	9.39E-05	12711	0.09	3.30E-03
1415	-0.10	5.34E-04	8412	-0.10	5.10E-05	5069	0.20	9.77E-13	12725	-0.18	1.58E-08
1421	0.10	3.61E-05	8413	0.10	9.15E-05	5070	0.10	8.75E-05	12743	0.15	2.11E-08
1429	-0.10	8.09E-05	8415	0.20	1.68E-10	5076	0.10	9.03E-05	12747	-0.13	5.19E-03
1431	0.20	2.24E-08	8418	0.10	7.47E-03	5078	-0.10	8.42E-04	12752	-0.15	4.89E-07
1434	0.20	6.28E-11	8420	0.10	8.57E-07	5086	0.20	1.55E-12	12757	0.15	1.49E-03
1436	-0.20	1.30E-09	8421	-0.30	2.42E-20	5093	-0.10	2.89E-05	12781	-0.12	1.04E-03
1439	0.20	2.56E-08	8423	-0.10	1.65E-03	5094	0.10	1.12E-03	12788	-0.20	2.81E-04
1448	-0.10	2.38E-03	8425	-0.10	2.66E-03	5095	-0.20	2.58E-06	12794	-0.18	4.75E-10
1451	0.10	9.65E-03	8427	0.10	4.57E-04	5098	0.10	1.51E-05	12798	-0.15	2.69E-08
1456	-0.10	3.84E-05	8429	0.10	5.31E-04	5101	0.10	1.09E-03	12799	0.24	3.12E-14
1459	0.10	3.51E-04	8433	-0.20	6.09E-08	5109	0.20	2.72E-07	12802	0.09	1.91E-03
1460	-0.10	4.56E-04	8434	-0.30	2.91E-07	5116	-0.10	9.25E-05	12804	-0.29	3.07E-05
1464	0.20	6.73E-14	8436	-0.10	8.47E-03	5120	-0.10	1.52E-03	12814	-0.26	4.62E-06
1468	0.10	1.44E-03	8446	-0.20	1.16E-15	5121	0.20	6.43E-07	12816	-0.21	8.02E-07
1472	-0.10	6.34E-07	8451	-0.10	1.22E-03	5124	-0.20	8.44E-08	12828	-0.16	2.41E-08
1475	-0.10	5.66E-04	8454	-0.20	4.16E-07	5128	-0.10	3.19E-03	12833	-0.14	6.46E-06
1478	0.20	1.08E-13	8460	-0.10	1.94E-03	5133	-0.20	2.42E-06	12847	-0.15	8.00E-04
1480	0.30	1.18E-04	8464	0.10	2.10E-05	5134	-0.30	6.57E-25	12850	0.18	2.38E-11
1484	-0.20	9.43E-03	8466	0.20	3.81E-07	5138	-0.10	4.90E-05	12868	-0.12	3.08E-05
1489	0.20	3.69E-04	8467	0.20	1.62E-08	5148	-0.10	4.51E-03	12871	-0.14	3.29E-03
1491	0.20	3.52E-09	8473	0.10	2.53E-05	5149	-0.20	2.74E-07	12876	-0.17	7.49E-07
1494	0.10	6.63E-03	8480	0.10	5.82E-06	5152	0.10	2.61E-03	12880	0.23	9.63E-10
1498	-0.30	4.39E-24	8481	-0.20	1.32E-03	5159	0.10	6.81E-03	12881	0.09	1.63E-03
1500	0.10	9.91E-04	8485	0.10	2.77E-05	5163	0.10	1.37E-03	12882	-0.16	1.07E-05
1501	-0.10	9.70E-03	8488	0.10	7.47E-03	5165	0.10	9.62E-03	12885	0.12	3.39E-06
1507	0.20	4.52E-04	8489	-0.10	1.93E-04	5172	-0.10	5.49E-07	12889	0.14	2.36E-06
1512	-0.20	1.92E-04	8508	-0.10	1.24E-04	5176	-0.40	7.53E-07	12897	-0.17	4.03E-06

1516	0.20	2.43E-06	8515	0.10	1.52E-03	5179	-0.20	7.14E-04	12898	-0.07	4.68E-03
1526	-0.10	1.01E-06	8529	-0.20	4.85E-04	5185	0.10	9.25E-03	12902	-0.10	9.35E-04
1529	-0.10	4.08E-04	8532	-0.10	2.54E-04	5186	0.20	2.56E-04	12905	-0.15	1.46E-05
1530	-0.10	6.52E-04	8540	0.20	1.14E-09	5204	-0.10	6.15E-03	12909	-0.09	4.05E-03
378											
1532	-0.10	1.92E-03	8548	-0.30	4.55E-06	5207	0.20	5.02E-06	12917	0.12	1.65E-05
1533	0.20	1.47E-13	8550	-0.20	1.55E-09	5212	0.10	1.25E-03	12927	-0.22	5.44E-16
1541	0.10	1.50E-04	8557	-0.20	1.03E-03	5219	0.20	3.26E-06	12929	-0.10	1.09E-03
1545	0.10	1.03E-03	8559	0.20	6.13E-17	5221	0.10	3.37E-05	12933	-0.12	2.93E-03
1550	-0.10	5.79E-04	8560	0.20	1.88E-08	5223	0.10	4.27E-05	12938	-0.18	5.70E-04
1552	0.10	4.16E-04	8561	0.10	4.26E-03	2505	-0.10	7.92E-04	9430	0.09	1.29E-03
1560	0.10	1.41E-05	8563	0.10	6.88E-04	2508	-0.10	5.34E-08	9434	-0.07	7.57E-03
1566	0.10	5.47E-04	8576	-0.20	2.53E-10	2514	-0.10	1.71E-03	9437	-0.31	3.28E-06
1571	-0.10	2.62E-04	8578	0.20	7.39E-06	2516	-0.10	1.12E-03	9445	-0.10	3.29E-03
1573	0.10	1.98E-03	8580	-0.20	1.39E-07	2518	0.10	1.04E-03	9447	-0.17	3.24E-04
1575	-0.10	4.81E-06	8585	0.10	7.52E-03	2522	-0.10	1.72E-05	9449	0.24	1.85E-06
1577	0.10	6.94E-04	8589	-0.20	1.59E-06	2523	-0.10	1.08E-05	9478	0.14	1.20E-03
1579	0.10	4.85E-03	8591	-0.10	4.40E-03	2532	-0.10	2.97E-04	9485	-0.09	2.03E-03
1581	0.20	1.30E-07	8592	-0.10	8.24E-04	2535	0.10	3.05E-03	9486	-0.20	2.21E-06
1583	-0.20	4.36E-05	8593	-0.10	6.51E-05	2540	0.10	1.58E-04	9498	-0.11	5.71E-05
1587	-0.20	3.24E-03	8596	-0.20	1.30E-07	2545	-0.10	3.75E-03	9502	0.12	1.19E-05
1588	-0.10	6.78E-07	8598	-0.10	1.78E-03	2550	-0.30	2.49E-07	9507	0.09	1.87E-03
1597	-0.10	1.31E-03	8601	-0.10	3.39E-03	2559	-0.30	6.58E-06	9508	0.16	3.19E-09
1599	0.20	2.95E-07	8603	0.20	1.86E-06	2566	0.20	2.44E-04	9510	0.10	3.41E-03
1614	0.20	7.38E-11	8607	-0.10	6.46E-04	2571	-0.10	4.55E-03	9516	0.12	3.40E-04
1615	-0.10	4.72E-03	8609	-0.10	9.33E-03	2575	0.10	6.91E-03	9529	0.10	1.44E-04
1616	0.10	1.20E-07	8610	-0.10	9.74E-03	2578	-0.20	4.42E-05	9530	-0.17	1.14E-05
1617	-0.10	8.51E-04	8612	0.10	3.03E-03	2580	0.10	2.61E-06	9531	-0.12	1.53E-05
1618	0.10	3.19E-03	8613	-0.10	3.76E-03	2582	-0.10	1.39E-05	9538	-0.11	5.81E-04
1620	-0.30	1.19E-22	8614	-0.10	2.69E-04	2583	0.10	2.45E-05	9540	-0.11	5.06E-04
1622	0.10	7.02E-06	8623	0.10	6.18E-04	2587	-0.20	2.31E-07	9541	-0.08	3.10E-03
1626	-0.10	6.16E-04	8632	-0.10	1.92E-03	2590	0.20	7.82E-04	9542	-0.17	2.65E-03
1628	-0.10	8.37E-06	8636	0.10	8.62E-03	2595	0.10	1.73E-04	9557	-0.18	1.77E-09
1629	-0.10	6.75E-06	8641	-0.10	3.79E-05	2597	0.20	5.95E-03	9558	-0.18	2.13E-09
1630	-0.10	5.29E-03	8642	-0.20	3.58E-06	2599	-0.10	2.42E-03	9566	-0.10	5.27E-04
1636	-0.20	8.92E-03	8644	-0.10	1.44E-04	2604	-0.10	2.88E-03	9575	0.11	5.14E-05
1637	0.10	8.51E-03	8645	0.20	4.34E-11	2607	-0.10	1.70E-03	9589	0.14	3.35E-05
1639	-0.10	4.41E-03	8647	-0.20	3.79E-07	2608	0.10	6.39E-06	9590	0.10	6.70E-04

1640	-0.20	1.50E-05	8648	-0.10	3.10E-03	2611	-0.20	6.72E-06	9594	-0.11	4.26E-04
1644	-0.20	1.09E-08	8650	-0.20	8.71E-08	2612	-0.20	1.31E-08	9598	-0.22	4.94E-10
1652	0.10	2.09E-06	8654	0.20	1.68E-05	2613	-0.20	3.31E-07	9605	0.09	1.19E-03
1653	0.20	1.95E-16	8658	-0.10	4.88E-03	2615	0.20	9.14E-17	9609	0.20	1.35E-08
1668	0.20	5.01E-10	8662	-0.20	8.94E-06	2617	-0.10	3.41E-04	9617	-0.17	4.22E-06
1681	0.20	7.68E-07	8663	0.10	1.08E-03	2630	0.20	1.64E-03	9618	0.26	1.09E-03
1684	0.20	8.69E-06	8666	-0.20	2.47E-03	2633	-0.20	7.04E-04	9619	0.15	4.00E-05
1686	0.10	1.60E-05	8667	-0.30	2.36E-05	2638	-0.20	7.25E-03	9626	0.21	1.63E-08
1696	-0.20	9.29E-03	8668	-0.10	1.76E-04	2640	0.20	4.08E-05	9628	-0.24	5.75E-07
1700	0.10	2.31E-03	8676	-0.20	6.33E-12	2643	-0.10	3.24E-03	9633	-0.27	1.81E-05
1705	-0.20	1.45E-06	8683	-0.20	1.61E-07	2646	0.10	5.03E-04	9635	0.13	3.31E-06
1715	-0.10	7.30E-03	8688	-0.10	1.48E-03	2647	0.20	3.24E-08	9636	-0.15	1.13E-05
1716	-0.10	6.75E-04	8689	0.10	5.84E-05	2649	-0.10	9.71E-05	9638	0.10	6.68E-04
1717	-0.20	5.05E-05	8692	-0.20	9.05E-06	2650	0.10	6.82E-04	9640	-0.09	1.03E-03
1718	0.10	3.16E-06	8693	-0.30	5.91E-18	2657	0.10	4.35E-03	9641	0.11	4.81E-04
1722	0.30	3.20E-20	8699	0.10	6.87E-08	2668	-0.20	2.40E-15	9645	0.11	4.90E-05
1729	-0.10	3.06E-05	8700	0.20	1.51E-06	2670	-0.20	7.49E-05	9646	-0.20	3.00E-12
1730	0.10	3.97E-06	8704	-0.20	7.73E-05	2673	0.10	2.65E-03	9647	-0.14	9.72E-03
1731	-0.10	5.69E-05	8705	-0.10	2.28E-03	2684	0.20	4.23E-08	9655	0.15	1.71E-07
1737	0.10	2.54E-03	8707	-0.20	2.96E-04	2688	-0.20	2.73E-11	9657	0.20	8.17E-09
1741	0.10	1.10E-03	8708	-0.20	5.23E-04	2692	0.20	2.57E-07	9660	-0.18	2.45E-10
1751	0.10	4.74E-05	8710	-0.20	2.23E-07	2693	0.20	1.54E-07	9665	-0.17	3.70E-06
1752	0.10	2.14E-05	8715	-0.20	4.08E-09	2696	0.10	5.74E-07	9670	0.09	1.41E-03
1758	0.20	3.35E-04	8720	0.10	8.66E-03	2701	0.20	7.23E-06	9671	0.10	3.50E-03
1763	0.10	3.60E-04	8724	0.10	8.48E-04	2702	-0.10	4.80E-03	9672	-0.12	4.50E-06
1764	-0.10	2.49E-04	8728	-0.30	3.13E-20	2706	0.10	8.24E-06	9680	0.16	1.25E-09
1766	-0.10	9.53E-04	8729	-0.20	5.80E-05	2707	-0.20	5.41E-15	9681	0.25	5.18E-06
1768	-0.20	2.64E-07	8732	0.20	9.45E-11	2714	-0.20	7.50E-04	9682	-0.17	2.04E-10
1776	-0.20	2.31E-12	8733	-0.10	4.79E-06	2722	-0.20	1.21E-10	9685	-0.27	4.57E-12
1777	-0.10	5.79E-03	8735	0.20	2.63E-16	2726	0.10	1.77E-04	9687	-0.08	9.11E-03
379											
1779	0.10	5.00E-03	8740	0.10	2.54E-03	2730	-0.20	1.20E-04	9688	0.13	9.45E-07
1780	0.20	3.55E-12	8744	-0.20	8.24E-15	2731	-0.20	1.96E-04	9693	-0.07	8.06E-03
1781	0.10	8.19E-04	8745	-0.10	8.88E-06	2735	0.10	3.14E-06	9694	0.18	7.87E-08
1782	0.10	9.16E-04	8747	0.10	1.37E-07	2740	0.10	8.02E-03	9695	-0.23	1.99E-05
1788	-0.10	3.86E-05	8754	0.20	4.16E-05	2743	0.20	9.70E-06	9698	0.09	5.43E-04
1790	-0.10	5.35E-12	8756	0.10	2.71E-03	2746	0.10	5.77E-03	9699	-0.17	1.69E-08
1795	-0.20	3.72E-08	8757	-0.20	1.76E-09	2752	-0.20	3.21E-07	9700	0.08	2.73E-03

1798	0.10	2.69E-03	8761	0.10	1.26E-03	2754	0.20	1.88E-11	9701	-0.11	7.85E-04
1799	0.10	2.42E-05	8764	-0.20	1.84E-04	2756	-0.20	1.95E-16	9707	-0.12	4.66E-05
1804	-0.20	4.96E-04	8767	-0.10	4.94E-04	2760	-0.10	7.76E-08	9708	-0.11	3.11E-04
1805	-0.20	2.50E-09	8769	-0.10	3.14E-03	2761	-0.20	6.14E-08	9711	-0.07	1.18E-03
1806	0.30	2.17E-04	8773	-0.20	2.33E-09	2772	-0.20	5.03E-10	9714	0.19	7.52E-12
1813	0.10	7.33E-04	8776	-0.10	4.19E-04	2773	-0.20	5.58E-04	9715	-0.14	4.18E-07
1815	-0.20	1.63E-07	8781	-0.10	1.37E-04	2781	0.20	8.32E-09	9718	-0.12	4.31E-05
1819	0.10	1.92E-04	8782	0.10	7.39E-06	2782	0.10	3.61E-03	9719	-0.10	1.43E-04
1820	-0.20	1.04E-08	8784	-0.20	4.39E-03	2789	0.10	6.51E-03	9720	-0.13	3.91E-04
1822	-0.20	1.82E-03	8785	-0.20	1.13E-03	2790	0.10	9.41E-04	9723	0.16	1.85E-03
1824	0.10	7.02E-03	8792	-0.20	8.72E-05	2791	0.10	2.77E-03	9730	-0.15	3.38E-06
1825	-0.10	8.37E-04	8793	0.10	2.82E-04	2795	0.10	4.37E-04	9732	-0.21	1.04E-05
1827	-0.10	5.93E-09	8794	-0.10	4.00E-03	2796	0.10	4.51E-05	9733	0.08	6.41E-03
1829	-0.20	4.84E-07	8800	0.10	1.50E-03	2801	0.10	1.00E-04	9734	0.13	1.11E-03
1836	-0.10	1.95E-04	8801	-0.20	2.72E-05	2802	0.10	8.02E-03	9738	-0.12	2.24E-05
1846	-0.20	4.14E-05	8805	-0.10	2.42E-07	2816	-0.30	2.75E-08	9744	-0.07	6.10E-03
1853	0.20	5.46E-04	8810	-0.10	6.60E-07	2829	-0.20	2.79E-05	9746	0.14	6.22E-04
1858	-0.10	1.61E-04	8814	-0.10	1.08E-05	2830	-0.20	2.22E-05	9747	-0.15	1.24E-03
1859	-0.10	4.06E-07	8818	-0.20	2.18E-04	2836	0.10	4.68E-03	9750	0.17	2.98E-08
1862	-0.10	3.38E-07	8820	-0.10	2.52E-05	2838	-0.10	3.43E-03	9753	0.08	7.98E-03
1864	-0.10	9.08E-03	8824	-0.30	1.26E-09	2839	-0.10	2.64E-03	9757	-0.29	2.00E-04
1865	-0.10	8.63E-03	8832	-0.10	5.00E-03	2848	-0.10	1.28E-06	9767	-0.27	4.08E-04
1867	-0.20	1.14E-05	8834	0.10	6.33E-03	2850	-0.20	1.04E-03	9768	0.15	3.14E-03
1869	0.10	1.14E-04	8839	-0.30	3.32E-11	2859	0.10	1.81E-04	9771	-0.16	1.93E-08
1871	-0.10	3.92E-06	8841	-0.10	1.15E-04	2862	-0.20	7.90E-04	9774	-0.11	4.16E-04
1876	0.10	6.11E-03	8843	-0.10	7.66E-03	2866	-0.10	9.23E-04	9779	0.18	3.27E-04
1882	0.20	4.63E-03	8847	-0.10	7.44E-03	2870	-0.20	7.53E-05	9780	-0.20	8.64E-08
1884	-0.20	1.30E-06	8848	-0.20	9.23E-14	2873	0.20	1.95E-03	9782	-0.11	2.21E-04
1889	-0.20	1.54E-08	8849	-0.20	1.79E-07	2874	-0.20	1.36E-09	9788	0.24	1.36E-06
1890	0.30	3.41E-10	8854	-0.20	1.50E-03	2880	-0.20	3.37E-03	9789	0.25	2.66E-12
1893	0.10	1.17E-03	8855	-0.10	5.19E-06	2882	0.10	2.56E-05	9801	-0.08	6.10E-04
1894	-0.10	2.67E-03	8857	0.10	1.57E-05	2885	-0.20	1.61E-03	9810	0.14	2.72E-07
1896	0.10	3.10E-06	8859	-0.10	1.06E-05	2887	-0.30	2.63E-04	9815	0.15	1.65E-07
1900	0.20	1.17E-03	8860	-0.20	2.84E-03	2888	-0.10	4.95E-03	9818	0.06	8.78E-03
1904	0.10	8.80E-03	8861	-0.10	5.04E-06	2889	0.10	4.53E-03	9819	-0.11	4.01E-05
1910	0.20	2.79E-06	8863	-0.10	1.18E-03	2890	0.10	7.17E-06	9820	0.14	1.54E-04
1922	-0.10	2.40E-06	8865	-0.10	6.13E-05	2896	-0.20	4.70E-05	9822	-0.11	1.24E-03
1926	0.10	9.43E-03	8877	-0.10	9.91E-04	2900	0.10	9.75E-05	9828	0.08	8.28E-03

1927	-0.20	1.79E-06	8888	0.10	1.34E-03	2901	-0.10	1.04E-03	9829	0.10	3.14E-03
1928	-0.20	8.05E-12	8898	-0.20	7.65E-09	2907	-0.10	2.38E-06	9837	-0.16	4.20E-05
1933	-0.10	9.65E-05	8899	-0.10	5.61E-06	2921	-0.10	2.17E-06	9838	-0.08	3.99E-03
1938	-0.10	2.10E-05	8902	0.10	3.42E-03	2927	0.10	1.81E-06	9851	-0.36	3.70E-10
1939	0.10	2.30E-05	8903	0.10	2.30E-03	2930	0.10	5.28E-03	9858	-0.10	8.85E-05
1941	0.20	2.04E-09	8904	-0.10	3.43E-03	2932	0.20	5.70E-04	9859	-0.12	4.97E-06
1942	-0.20	5.03E-05	8908	-0.20	2.17E-15	2941	-0.20	7.62E-06	9860	-0.16	1.46E-05
1948	-0.10	1.15E-03	8909	-0.20	1.82E-03	2954	-0.10	2.98E-08	9867	-0.14	3.32E-06
1956	0.20	4.80E-07	8910	0.10	5.57E-06	2955	-0.20	1.29E-04	9868	-0.27	2.89E-15
1968	0.10	1.40E-04	8911	0.10	8.93E-05	2959	-0.20	8.26E-15	9870	0.10	8.17E-04
1971	0.10	4.27E-05	8914	0.20	5.14E-06	2960	0.10	1.04E-04	9874	-0.17	6.83E-09
1974	-0.20	1.41E-09	8915	-0.10	8.32E-03	2961	-0.20	3.42E-04	9876	0.22	1.76E-14
1978	-0.10	4.72E-03	8916	-0.10	9.56E-03	2965	0.10	1.51E-03	9879	0.10	2.80E-04
1980	0.20	2.72E-06	8919	-0.10	5.61E-04	2968	-0.10	5.39E-03	9894	-0.09	1.14E-03
1981	0.30	4.97E-16	8922	-0.10	3.50E-08	2971	-0.20	7.57E-14	9899	0.10	1.66E-04
1985	-0.10	4.41E-07	8923	-0.10	6.45E-04	2974	-0.20	5.13E-07	9902	-0.14	3.00E-03
1986	-0.20	3.04E-03	8924	-0.10	5.71E-04	2995	0.20	8.22E-11	9908	0.16	4.96E-09
1988	-0.10	7.59E-03	8925	0.10	1.40E-06	2998	-0.20	3.06E-06	9913	-0.15	1.78E-06
380											
1990	-0.20	1.19E-08	8927	-0.10	4.42E-03	3003	0.20	2.62E-08	9914	-0.26	3.05E-05
1993	0.20	3.56E-08	8931	0.20	5.81E-03	3010	-0.10	3.45E-04	9917	-0.10	3.21E-03
1994	-0.10	9.20E-03	8933	-0.10	6.31E-03	3011	0.10	1.66E-03	9919	0.11	1.28E-04
1996	0.20	5.07E-07	8934	-0.10	8.23E-06	3015	0.10	2.43E-03	9921	0.12	4.63E-04
1999	0.10	7.96E-06	8938	-0.10	6.88E-03	3026	-0.10	1.51E-03	9922	-0.20	1.43E-10
2002	-0.40	1.59E-05	8944	0.10	2.36E-03	3028	0.10	5.64E-06	9927	0.22	1.25E-08
2004	0.10	9.88E-03	8954	0.10	5.73E-05	3031	0.20	6.29E-06	9928	0.13	7.73E-04
2009	-0.10	7.47E-07	8959	-0.20	3.38E-10	3033	-0.20	1.06E-04	9929	-0.17	8.44E-06
2013	0.20	7.20E-07	8960	-0.10	5.99E-04	3037	-0.20	4.19E-15	9936	0.09	2.71E-04
2018	0.10	3.06E-03	8963	-0.10	4.29E-03	3040	-0.10	6.89E-03	9942	-0.12	6.17E-03
2019	0.10	1.17E-04	8966	0.20	1.52E-06	3042	0.10	4.97E-03	9945	-0.08	4.57E-03
2020	-0.10	2.67E-03	8969	-0.10	3.38E-03	3044	-0.30	1.42E-11	9946	0.09	3.72E-03
2024	0.10	3.73E-04	8970	-0.10	3.16E-04	3048	0.10	1.56E-05	9956	0.12	6.62E-03
2026	-0.10	4.78E-03	8977	0.20	3.26E-08	3050	-0.20	3.08E-06	9957	-0.16	3.91E-07
2030	0.20	3.50E-08	8979	0.10	3.39E-04	3053	0.10	7.01E-06	9959	0.16	1.25E-09
2035	-0.10	1.03E-04	8981	-0.20	3.51E-12	3068	0.10	1.39E-05	9961	0.08	4.69E-03
2037	-0.20	3.40E-08	8985	-0.30	4.01E-05	3069	0.10	9.02E-04	9975	-0.06	8.77E-03
2038	0.30	4.64E-06	8987	-0.10	5.71E-03	3072	0.10	1.37E-03	9982	-0.13	3.46E-06
2049	0.10	1.13E-06	8994	0.10	7.75E-03	3077	0.10	9.42E-03	9987	-0.12	4.43E-05

2053	0.10	1.69E-04	8996	0.10	3.55E-03	3079	-0.10	6.58E-06	9993	-0.11	7.67E-08
2056	-0.10	2.35E-04	9003	0.20	2.45E-09	3085	-0.10	7.81E-04	9995	0.13	1.25E-06
2057	0.10	5.12E-04	9006	0.10	1.10E-04	3092	0.20	3.91E-04	9998	0.13	2.92E-06
2075	-0.20	4.33E-09	9010	-0.10	6.25E-04	3100	-0.10	1.39E-03	10000	-0.09	4.30E-03
2077	0.10	5.19E-06	9011	0.20	1.61E-13	3104	-0.10	6.52E-04	10001	0.11	2.87E-04
2084	-0.10	2.58E-04	9027	-0.10	9.70E-06	3109	0.10	3.37E-03	10002	-0.15	8.06E-06
2088	0.10	1.26E-05	9041	-0.10	1.78E-03	3112	0.10	1.15E-03	10003	-0.17	1.51E-09
2089	-0.10	7.46E-03	9043	-0.20	7.97E-05	3118	-0.10	2.87E-05	10006	-0.17	4.22E-10
2093	-0.10	9.09E-06	9046	-0.10	3.95E-05	3120	0.10	2.84E-03	10011	-0.15	2.41E-08
2094	-0.10	5.87E-04	9050	-0.10	6.99E-04	3124	-0.20	3.68E-12	10021	-0.10	1.10E-03
2096	-0.10	7.77E-04	9054	-0.10	2.41E-03	3125	-0.20	3.38E-08	10026	-0.13	4.43E-06
2105	0.10	1.24E-03	9055	-0.10	1.38E-03	3126	0.10	1.95E-03	10031	-0.20	3.01E-05
2116	-0.20	1.79E-03	9056	0.10	9.69E-03	3127	-0.10	1.93E-03	10033	0.11	3.24E-05
2120	0.10	8.43E-04	9070	0.10	7.26E-03	3129	0.10	7.46E-07	10036	-0.19	3.78E-10
2125	-0.20	2.12E-04	9074	0.20	2.16E-06	3131	0.10	5.07E-06	10041	0.24	1.25E-06
2126	0.10	1.41E-05	9077	0.20	1.77E-07	3133	0.10	5.70E-05	10053	-0.21	2.78E-05
2128	-0.10	9.99E-03	9081	0.20	1.69E-08	3142	0.10	1.37E-05	10056	0.16	1.33E-05
2131	-0.10	8.67E-03	9089	-0.10	8.26E-03	3144	-0.10	2.17E-05	10061	0.13	7.26E-03
2132	-0.20	3.68E-03	9098	0.10	9.72E-03	3145	-0.10	1.31E-05	10062	-0.23	1.64E-18
2134	0.10	1.01E-04	9101	0.20	1.49E-17	3149	0.20	6.78E-08	10067	0.08	1.11E-04
2136	-0.10	2.19E-04	9102	-0.10	6.25E-03	3152	0.10	2.57E-03	10077	-0.09	5.64E-06
2140	-0.10	5.02E-03	9103	0.20	1.21E-05	3153	-0.10	3.12E-05	10080	-0.12	2.78E-04
2144	0.10	3.37E-03	9106	-0.20	1.32E-03	3158	-0.10	6.12E-06	10081	0.09	9.81E-04
2145	-0.20	3.60E-12	9108	0.10	3.66E-03	3165	-0.20	4.36E-12	10084	0.25	4.98E-11
2146	-0.20	8.89E-09	9110	-0.20	1.18E-04	3167	-0.10	4.34E-03	10092	-0.32	3.15E-28
2171	0.10	2.66E-06	9111	0.10	1.83E-03	3170	0.10	3.48E-04	10094	-0.16	1.38E-03
2178	0.10	3.95E-03	9122	0.10	2.21E-03	3176	0.10	4.25E-03	10095	0.06	2.72E-03
2183	0.10	3.40E-04	9123	0.10	3.09E-06	3177	-0.10	6.18E-04	10096	0.08	4.17E-03
2187	-0.10	1.99E-03	9127	-0.10	1.32E-05	3178	-0.10	1.73E-03	10098	0.12	4.10E-03
2195	-0.20	1.22E-09	9129	0.20	1.29E-13	3180	-0.10	2.12E-05	10103	-0.10	9.50E-04
2197	0.10	7.54E-03	9134	-0.20	7.29E-03	3182	-0.10	1.96E-05	10107	-0.13	1.33E-05
2200	-0.30	1.45E-07	9135	-0.10	8.03E-04	3183	-0.10	3.65E-04	10117	-0.13	7.77E-07
2201	0.10	2.75E-06	9136	-0.20	3.80E-03	3184	0.10	3.86E-06	10119	-0.15	4.31E-07
2203	-0.10	3.25E-03	9138	0.20	6.51E-20	3189	-0.20	2.62E-15	10120	0.19	2.32E-04
2209	0.10	6.35E-03	9140	0.10	8.59E-05	3190	0.20	3.65E-06	10124	-0.11	1.77E-04
2211	0.20	1.16E-11	9150	0.10	1.47E-04	3191	-0.20	8.45E-12	10134	-0.20	1.48E-03
2218	0.20	3.34E-09	9154	-0.10	8.59E-04	3192	-0.20	1.19E-11	10138	-0.22	1.80E-03
2224	0.20	1.83E-13	9161	0.10	2.62E-03	3196	-0.10	5.08E-04	10139	-0.22	9.15E-17

2227	-0.20	2.76E-07	9165	0.10	2.84E-06	3199	-0.10	2.40E-03	10140	0.14	5.93E-04
2228	-0.20	7.30E-05	9166	-0.10	3.16E-07	3205	-0.20	2.00E-04	10147	0.15	7.12E-08
2229	-0.20	1.06E-06	9173	0.10	9.64E-03	3206	0.30	1.45E-06	10148	-0.11	1.03E-04
2231	0.20	1.52E-05	9174	0.20	4.70E-04	3210	0.10	6.30E-04	10153	-0.08	7.70E-03
2232	-0.20	2.79E-05	9178	-0.20	2.60E-05	3213	-0.20	5.59E-04	10157	-0.15	4.61E-08
2249	-0.10	1.03E-03	9179	-0.20	2.47E-05	3218	-0.20	6.92E-08	10160	0.18	4.85E-11
381											
2250	-0.10	7.72E-07	9183	-0.10	1.72E-05	3220	0.20	2.82E-07	10161	-0.22	5.06E-08
2251	-0.10	1.22E-03	9184	0.10	1.56E-03	3222	0.10	3.37E-03	10162	-0.17	5.65E-09
2260	-0.10	1.13E-03	9187	-0.10	2.63E-05	3227	-0.10	4.62E-04	10163	0.08	5.00E-03
2261	-0.10	1.27E-07	9191	-0.10	1.43E-05	3241	-0.20	6.58E-06	10164	-0.08	2.64E-03
2267	0.10	3.41E-04	9192	-0.20	4.55E-09	3245	0.10	5.27E-03	10174	0.16	3.37E-09
2275	-0.10	3.11E-07	9194	0.10	1.06E-03	3248	-0.20	1.67E-08	10175	0.16	3.69E-09
2284	-0.10	8.01E-06	9195	-0.20	2.20E-04	3253	0.10	3.24E-03	10176	0.10	3.16E-04
2285	-0.20	3.47E-10	9199	0.10	2.71E-04	3258	0.10	8.88E-05	10182	0.13	9.05E-04
2293	0.10	9.39E-08	9201	0.10	3.40E-03	12940	0.13	1.33E-05	13313	0.10	3.82E-04
2294	0.10	8.72E-08	9207	0.10	1.06E-03	12948	-0.22	4.25E-06	13315	-0.27	5.59E-04
2295	-0.10	2.06E-04	9208	-0.20	6.19E-04	12950	0.09	6.35E-04	13318	-0.17	6.65E-05
2298	0.10	1.94E-04	9213	0.20	1.45E-08	12952	0.09	3.93E-04	13328	0.20	8.52E-08
2300	0.20	4.02E-12	9217	0.13	3.58E-03	12963	0.08	6.47E-03	13332	-0.15	2.29E-03
2303	0.10	1.12E-05	9225	0.08	1.44E-04	12964	-0.15	1.81E-04	13352	-0.10	3.15E-03
2304	0.10	2.30E-04	9227	-0.18	1.84E-10	12989	-0.10	3.38E-04	13355	-0.12	3.73E-05
2314	0.10	6.44E-08	9228	0.11	4.23E-05	12995	0.09	1.27E-03	13363	0.10	3.73E-04
2315	0.20	1.55E-11	9229	-0.19	1.87E-05	13000	-0.19	7.40E-12	13365	-0.19	2.35E-03
2316	0.10	6.44E-06	9235	-0.13	1.11E-04	13001	-0.13	5.38E-05	13367	0.08	2.05E-03
2322	0.10	6.23E-04	9237	0.13	1.36E-06	13002	-0.15	6.28E-06	13368	-0.15	9.94E-03
2323	0.10	1.93E-08	9246	0.10	7.16E-04	13003	-0.11	9.22E-04	13372	-0.10	3.41E-04
2324	-0.20	5.65E-13	9248	0.14	9.52E-06	13007	0.19	4.51E-05	13382	0.17	2.83E-05
2325	-0.10	7.17E-06	9257	0.13	7.78E-03	13010	0.08	3.03E-03	13394	-0.10	8.88E-03
2328	0.10	3.96E-05	9258	-0.14	2.75E-05	13020	0.12	1.16E-05	13407	0.08	3.47E-03
2335	-0.20	2.43E-11	9260	-0.20	2.23E-12	13031	-0.23	1.01E-04	13415	0.12	9.14E-03
2338	0.20	7.01E-08	9265	0.18	3.55E-04	13043	0.09	3.12E-04	13434	0.10	1.08E-03
2345	-0.10	3.46E-03	9269	-0.14	5.08E-07	13051	0.13	8.07E-07	13472	-0.13	2.53E-03
2354	-0.20	1.62E-03	9276	-0.14	7.38E-05	13070	-0.17	8.17E-03	13479	0.09	1.82E-03
2360	-0.20	9.78E-08	9280	0.12	1.62E-05	13075	0.09	4.99E-04	13485	0.18	2.50E-05
2369	-0.10	1.16E-06	9281	-0.23	1.78E-15	13077	-0.15	6.81E-05	13486	0.10	5.00E-03
2371	-0.20	8.09E-07	9288	-0.08	3.82E-03	13083	-0.10	1.75E-03	13491	-0.29	1.88E-04
2373	-0.30	2.06E-09	9289	-0.20	3.71E-05	13086	-0.23	3.39E-03	13495	0.14	7.21E-07

2379	0.10	2.45E-03	9290	-0.16	4.86E-09	13089	-0.12	1.29E-03	13517	-0.16	9.26E-05
2388	-0.10	3.48E-07	9293	-0.10	8.09E-04	13091	0.12	1.16E-04	13519	0.15	6.49E-04
2389	-0.20	1.69E-14	9294	-0.09	8.21E-04	13097	0.09	1.65E-03	13523	0.15	7.55E-06
2393	-0.10	3.44E-05	9304	-0.08	5.62E-03	13107	-0.14	4.25E-06	13527	-0.23	8.35E-17
2394	-0.10	8.26E-03	9307	0.17	1.59E-06	13108	0.15	5.51E-07	13538	-0.16	1.37E-07
2400	0.20	9.00E-14	9311	-0.08	8.09E-03	13109	0.11	1.62E-04	13540	-0.29	6.50E-04
2405	0.10	9.93E-07	9319	0.07	6.44E-03	13111	0.08	5.79E-03	13542	-0.09	9.82E-03
2406	0.30	9.23E-22	9324	-0.22	5.24E-03	13123	-0.14	1.74E-03	13546	-0.09	8.12E-03
2408	0.10	1.07E-05	9325	-0.13	3.98E-03	13126	-0.19	2.77E-11	13565	-0.18	2.23E-10
2413	0.10	3.02E-06	9327	-0.15	5.54E-04	13128	-0.22	4.21E-06	13567	-0.08	4.54E-03
2414	0.10	3.18E-06	9329	-0.12	1.36E-05	13132	0.15	3.50E-08	13578	0.16	6.59E-09
2415	-0.20	4.06E-03	9332	-0.13	1.18E-05	13139	0.24	3.15E-13	13580	-0.14	2.88E-03
2416	-0.10	3.38E-04	9341	-0.14	3.59E-07	13142	-0.15	2.74E-04	13583	0.10	1.03E-03
2418	-0.10	3.45E-05	9342	-0.30	3.56E-15	13143	0.21	3.22E-10	13592	-0.19	3.19E-03
2422	-0.10	5.14E-03	9347	-0.14	3.45E-07	13149	0.09	5.55E-03	13608	0.14	2.56E-07
2423	0.10	4.27E-03	9349	-0.12	2.61E-03	13161	-0.23	8.02E-18	13609	0.18	4.79E-09
2424	-0.20	1.68E-07	9352	0.09	2.50E-03	13174	-0.11	4.26E-03	13611	-0.14	6.47E-07
2425	-0.10	2.83E-05	9353	0.09	3.04E-03	13178	0.07	6.29E-03	13626	-0.22	7.50E-03
2426	-0.10	1.87E-05	9355	0.19	9.72E-12	13184	-0.20	1.07E-08	13629	0.16	1.27E-09
2427	-0.10	3.02E-03	9356	-0.12	4.22E-05	13188	-0.09	9.32E-03	13635	-0.09	9.81E-04
2430	-0.20	2.82E-04	9357	-0.12	5.50E-05	13191	-0.18	5.71E-06	13637	-0.09	4.95E-03
2432	0.10	1.86E-03	9360	-0.11	3.68E-03	13199	-0.22	3.00E-11	13656	-0.10	5.53E-06
2437	-0.20	2.85E-12	9361	0.15	7.01E-08	13211	-0.19	1.31E-03	13663	-0.09	7.88E-04
2442	0.10	8.87E-03	9367	-0.13	8.83E-04	13212	0.15	1.08E-07	13668	0.13	1.36E-03
2446	0.20	1.84E-15	9368	0.26	6.92E-21	13214	0.07	9.84E-03	13702	-0.19	1.76E-09
2448	0.10	4.72E-06	9371	-0.14	2.31E-05	13230	-0.12	1.28E-05	13706	0.18	1.93E-05
2452	0.30	1.50E-07	9373	0.32	1.48E-25	13243	0.18	1.42E-05	13707	-0.23	1.39E-05
2453	-0.20	8.16E-10	9376	0.12	8.98E-04	13254	0.11	8.68E-05	13710	0.07	9.10E-03
2461	-0.20	4.60E-04	9378	0.11	2.62E-04	13255	-0.09	1.28E-03	13712	-0.13	1.31E-05
2463	0.20	1.34E-03	9379	0.15	5.94E-05	13258	-0.12	7.68E-03	13724	-0.09	6.73E-04
2465	-0.10	5.07E-08	9383	-0.19	1.82E-11	13264	-0.15	3.32E-08	13740	0.11	6.30E-05
2466	-0.30	5.44E-22	9390	-0.16	1.10E-03	13276	0.12	2.52E-05	13743	-0.13	3.57E-03
382											
2470	-0.20	1.12E-05	9393	0.08	6.74E-03	13279	-0.22	3.54E-04	13747	-0.07	4.91E-03
2472	-0.10	1.11E-03	9397	-0.14	2.22E-05	13281	-0.14	7.59E-05	13763	-0.11	9.81E-03
2473	-0.20	5.73E-05	9402	-0.13	2.04E-05	13292	0.25	6.26E-09	13769	-0.27	1.26E-05
2476	0.10	9.57E-04	9404	-0.09	1.76E-03	13295	0.11	3.66E-03	13772	0.13	3.59E-06
2486	0.10	2.86E-03	9406	-0.08	1.35E-05	13296	0.18	3.86E-07	13777	0.17	1.20E-05

2489	0.20	4.22E-07	9410	0.09	8.67E-04	13297	0.14	3.93E-03	13783	-0.21	8.91E-14
2491	0.20	3.97E-08	9421	-0.19	2.33E-06	13302	0.08	4.70E-03	13791	0.11	2.59E-05
2494	0.10	2.00E-03	9423	-0.09	3.27E-03	13303	0.10	1.06E-03	13793	-0.12	1.06E-04
2501	-0.10	1.30E-07	9424	-0.21	1.80E-10	13305	-0.22	6.98E-09	13795	0.14	1.10E-06
14307	0.15	4.61E-08	14756	0.12	1.56E-05	15283	0.08	7.87E-03	10416	0.08	5.00E-02
14313	0.11	8.03E-05	14773	-0.14	3.10E-06	15291	0.19	5.51E-09	10652	0.34	5.00E-02
14330	-0.14	2.00E-07	14777	-0.14	3.92E-06	15302	0.12	2.52E-04	10665	0.17	5.00E-02
14342	0.14	5.95E-04	14783	0.20	3.06E-14	15309	0.12	8.75E-06	10922	-0.16	5.00E-02
14364	-0.13	1.41E-07	14790	-0.17	3.44E-04	15321	-0.11	1.25E-03	11319	-0.19	5.00E-02
14380	0.12	3.60E-05	14800	-0.09	1.58E-03	15327	-0.17	2.36E-04	11357	0.12	5.00E-02
14381	-0.21	2.65E-07	14801	-0.17	4.34E-09	15331	-0.17	1.18E-07	11483	0.42	5.00E-02
14390	0.12	1.32E-03	14806	-0.27	1.47E-06	15333	0.14	3.22E-07	11660	-0.03	5.00E-02
14391	0.11	8.43E-05	14817	-0.28	9.02E-13	15337	0.09	4.06E-03	11761	-0.19	5.00E-02
14397	0.13	9.58E-06	14818	-0.09	9.63E-04	15339	-0.13	3.48E-03	12057	0.48	5.00E-02
14406	-0.15	3.69E-04	14838	-0.21	2.22E-03	15348	-0.07	7.28E-03	12217	0.24	5.00E-02
14414	0.06	1.09E-03	14839	-0.18	3.67E-10	15351	0.08	7.22E-03	12507	-0.03	5.00E-02
14424	-0.12	6.32E-03	14841	-0.13	6.69E-06	15359	0.11	1.23E-04	12555	-0.50	5.00E-02
14430	0.13	3.22E-06	14844	0.23	2.57E-05	15368	-0.19	6.31E-10	12672	0.04	5.00E-02
14436	0.09	2.82E-03	14860	0.13	3.42E-06	15375	-0.09	4.86E-03	12841	0.22	5.00E-02
14441	0.15	2.34E-08	14861	0.12	8.35E-03	28	-0.04	5.00E-02	12890	-0.07	5.00E-02
14448	-0.20	6.53E-09	14866	-0.08	9.00E-03	254	0.03	5.00E-02	12955	-0.26	5.00E-02
14451	0.24	8.01E-12	14872	-0.21	3.91E-03	434	0.05	5.00E-02	13237	0.12	5.00E-02
14476	0.10	6.74E-03	14886	0.12	5.75E-06	775	0.04	5.00E-02	13585	0.12	5.00E-02
14478	-0.09	3.64E-03	14899	0.18	5.80E-07	877	0.24	5.00E-02	13650	-0.26	5.00E-02
14479	-0.14	1.25E-05	14904	0.12	1.56E-05	1000	-0.04	5.00E-02	13933	0.19	5.00E-02
14484	0.16	2.77E-09	14915	0.18	1.07E-10	1220	-0.05	5.00E-02	14012	0.21	5.00E-02
14498	-0.19	6.63E-07	14937	0.07	6.33E-03	1271	0.04	5.00E-02	14075	0.04	5.00E-02
14502	-0.18	8.51E-05	14938	0.24	2.32E-04	1769	0.45	5.00E-02	14345	0.15	5.00E-02
14504	-0.24	3.74E-06	14948	0.10	5.64E-04	1783	0.03	5.00E-02	14726	0.23	5.00E-02
14506	0.11	1.73E-04	14953	-0.16	5.89E-08	2258	-0.13	5.00E-02	14847	0.23	5.00E-02
14507	0.16	1.83E-08	14966	-0.15	1.34E-08	2305	0.03	5.00E-02	15144	0.12	5.00E-02
14508	-0.14	8.29E-07	14971	-0.23	1.08E-05	2869	0.31	5.00E-02	15247	0.08	5.00E-02
14514	-0.09	7.83E-04	14974	-0.15	2.22E-06	2906	-0.06	5.00E-02	15273	0.08	5.00E-02
14523	0.21	1.37E-14	14983	-0.25	1.82E-07	3090	-0.15	5.00E-02	15288	0.20	5.00E-02
14524	-0.20	2.40E-06	14989	-0.18	6.06E-04	3273	-0.04	5.00E-02	15317	0.06	5.00E-02
14525	-0.24	2.06E-04	14999	-0.26	5.19E-04	3691	-0.12	5.00E-02	15364	0.04	5.00E-02
14533	-0.12	1.11E-04	15003	-0.10	4.86E-04	3717	0.07	5.00E-02	10454	0.14	1.11E-07
14544	0.17	1.24E-05	15008	-0.23	4.80E-12	3960	-0.04	5.00E-02	10456	-0.11	3.62E-03

14560	-0.10	7.58E-03	15012	-0.31	2.69E-04	4465	-0.03	5.00E-02	10462	0.16	9.81E-08
14582	0.23	3.59E-16	15016	0.14	1.89E-04	4759	0.05	5.00E-02	10474	-0.19	9.87E-08
14592	-0.12	1.05E-03	15018	-0.15	1.10E-07	4806	0.04	5.00E-02	10478	0.22	6.96E-05
14602	-0.10	1.29E-05	15022	-0.09	2.39E-03	5233	-0.06	5.00E-02	10480	-0.20	1.18E-09
14612	-0.14	3.39E-07	15033	-0.16	1.70E-04	5357	0.04	5.00E-02	10481	0.09	1.84E-03
14615	-0.15	7.05E-08	15042	-0.17	1.44E-05	5773	-0.13	5.00E-02	10485	-0.09	3.39E-03
14616	-0.27	8.52E-09	15047	-0.08	7.22E-03	6042	-0.09	5.00E-02	10487	-0.09	3.97E-03
14623	0.12	6.31E-04	15060	-0.27	5.25E-23	6155	0.04	5.00E-02	10488	0.10	1.70E-03
14625	-0.10	4.94E-04	15062	-0.26	1.32E-05	6255	0.04	5.00E-02	10490	-0.15	1.22E-06
14626	-0.14	1.78E-07	15086	-0.19	6.39E-11	6283	0.05	5.00E-02	10494	0.18	1.38E-13
14628	-0.16	4.37E-11	15088	0.16	9.87E-07	6514	-0.10	5.00E-02	10498	-0.14	4.75E-03
14629	0.10	2.69E-03	15104	0.15	1.04E-07	6622	0.11	5.00E-02	10503	0.15	2.69E-07
14631	-0.08	1.81E-03	15110	-0.15	3.03E-07	7385	0.04	5.00E-02	10507	-0.09	1.41E-03
14649	0.08	7.87E-03	15128	0.16	6.40E-08	7480	-0.07	5.00E-02	10509	-0.09	3.71E-03
14651	0.16	7.54E-09	15133	-0.22	3.82E-03	7764	0.07	5.00E-02	10516	-0.16	4.95E-07
14661	-0.09	3.04E-03	15162	-0.11	8.11E-05	7887	0.08	5.00E-02	10520	-0.32	1.36E-08
14663	0.12	1.19E-03	15164	0.09	1.35E-03	7944	-0.06	5.00E-02	10524	-0.11	9.65E-05
14668	-0.20	8.34E-07	15184	-0.27	3.55E-23	8017	-0.04	5.00E-02	10537	-0.09	1.88E-03
14695	-0.18	3.53E-10	15206	0.14	4.12E-07	8019	0.13	5.00E-02	10545	0.12	3.02E-04
14699	0.11	7.84E-05	15209	-0.21	8.83E-14	8583	-0.12	5.00E-02	10548	0.09	2.01E-03
383											
14700	-0.20	2.45E-13	15211	-0.14	1.07E-05	8657	0.10	5.00E-02	10561	-0.13	6.74E-04
14704	0.15	4.94E-04	15215	0.07	8.70E-03	8891	0.04	5.00E-02	10563	-0.16	1.22E-04
14705	-0.19	2.82E-09	15237	-0.13	3.06E-03	9163	-0.05	5.00E-02	10569	0.08	4.70E-03
14708	-0.10	8.90E-04	15238	-0.09	5.54E-03	9340	0.05	5.00E-02	10570	-0.19	2.40E-10
14724	-0.11	1.20E-04	15239	0.23	1.57E-10	9579	0.29	5.00E-02	10577	-0.28	3.44E-09
14725	-0.10	3.07E-04	15243	-0.21	2.84E-07	9600	0.05	5.00E-02	10584	-0.15	7.11E-08
14734	-0.09	1.24E-03	15244	-0.24	3.28E-06	9653	0.07	5.00E-02	10586	-0.19	4.85E-05
14736	-0.12	9.95E-03	15245	0.10	7.12E-04	9745	0.04	5.00E-02	10590	-0.14	5.34E-07
14738	-0.16	3.55E-03	15250	0.09	8.26E-03	10072	0.13	5.00E-02	10597	-0.12	5.49E-06
14739	0.19	1.24E-12	15260	-0.20	4.53E-10	10137	-0.25	5.00E-02	10599	-0.15	1.66E-04
3407	0.10	1.73E-05	3687	-0.20	1.49E-03	3676	-0.20	1.91E-06	3557	-0.20	2.52E-03
3408	-0.10	1.47E-04	3690	0.10	9.16E-03	3683	-0.20	8.03E-16	3558	-0.30	1.02E-28
3417	0.10	7.68E-03	3695	-0.10	1.11E-03	3588	-0.10	2.58E-03	3559	-0.30	5.97E-06
3418	0.10	2.20E-04	3696	-0.10	8.59E-05	3593	-0.20	1.87E-10	3568	0.10	3.64E-06
3419	0.10	6.59E-03	3703	0.10	3.84E-03	3594	0.10	6.70E-03	3569	0.10	2.99E-05
3420	0.10	4.64E-04	3706	-0.20	1.80E-09	3595	-0.20	4.08E-04	3574	-0.10	3.02E-04
3423	0.10	7.50E-03	3713	0.10	2.20E-04	3599	0.20	6.40E-06	3575	-0.20	8.54E-03

3424	0.20	1.11E-04	3714	-0.10	5.20E-03	3602	0.10	3.49E-03	3579	0.10	1.49E-06
3438	-0.10	1.45E-03	3715	0.10	1.30E-03	3613	0.10	3.92E-04	3582	-0.20	2.59E-08
3439	-0.20	4.47E-04	3716	0.10	8.06E-04	3614	-0.10	1.99E-04	3506	-0.20	9.53E-05
3446	0.10	1.93E-03	3726	0.10	1.99E-06	3649	0.10	4.94E-04	3510	-0.20	4.15E-10
3455	-0.10	1.42E-04	3728	0.10	2.78E-03	3656	-0.10	2.21E-04	3511	0.10	1.54E-04
3465	0.20	5.00E-07	3729	-0.20	1.28E-07	3658	0.20	1.65E-08	3514	-0.10	2.59E-05
3466	0.10	1.43E-06	3731	0.10	2.98E-04	3661	-0.10	5.52E-06	3523	0.10	3.71E-05
3467	0.20	6.76E-12	3732	0.10	6.12E-05	3667	0.10	3.91E-03	3531	0.10	1.62E-04
3468	0.20	3.82E-11	3735	-0.10	2.19E-03	3668	0.10	7.85E-04	3539	0.10	3.56E-04
3483	-0.10	5.01E-03	3740	-0.20	2.61E-10	3671	-0.10	8.53E-04	3548	-0.30	3.48E-09
3485	-0.20	5.14E-15	3745	0.10	5.26E-06	3673	0.20	5.87E-05	3550	0.10	1.92E-04
3489	0.10	7.08E-06	3749	-0.10	2.54E-05	3498	0.10	7.09E-03	3554	0.10	1.88E-04
3490	0.10	4.79E-03	3750	-0.10	8.07E-03	3503	-0.10	3.80E-03	3753	-0.20	1.03E-07
3491	0.20	1.44E-17	3751	-0.10	5.60E-03	3752	-0.10	6.19E-06			

A	B	C
5226	0.10	4.29E-03
5229	-0.10	8.42E-03
5230	0.20	9.32E-16
5235	-0.10	1.32E-05
5239	-0.10	3.53E-04
5242	0.10	1.13E-04
5247	0.10	2.77E-05
5249	-0.10	3.40E-05
5253	0.10	1.53E-04
5255	0.10	2.97E-03
5257	0.10	4.08E-03
5261	-0.20	1.71E-09
5273	-0.10	1.10E-03
5274	-0.10	8.55E-04
5275	-0.10	3.61E-06
5279	-0.10	6.30E-04
5285	-0.20	4.68E-07
5288	-0.20	3.80E-03
5293	-0.20	1.07E-03
5295	-0.20	2.25E-05
5298	-0.10	7.32E-03
5302	-0.10	1.95E-05
5307	0.10	4.04E-03
5308	-0.10	9.25E-06
5316	0.10	1.49E-04
5317	0.20	2.77E-11
5320	0.20	3.84E-07
5323	-0.20	4.38E-11
5326	-0.10	1.90E-04
5329	-0.30	1.47E-08
5330	0.10	4.53E-03
5331	-0.20	2.20E-07
5338	0.10	1.37E-03
5339	0.10	3.67E-03
5344	0.20	3.11E-13

5345	0.20	9.37E-09
5348	0.10	2.37E-03
5353	0.20	3.50E-12
5366	0.10	3.30E-05
5367	-0.10	4.24E-04
5379	-0.10	1.44E-05
5381	0.20	5.65E-13
5384	0.10	4.17E-03
5397	0.10	1.60E-04
5398	-0.10	2.95E-03
5399	-0.20	7.18E-08
5401	0.20	1.13E-08
5402	-0.10	2.60E-07
5414	-0.20	2.90E-18
5417	-0.10	1.68E-03
5418	0.10	1.82E-03
5422	0.10	1.11E-03
5429	0.10	7.66E-04
5431	-0.20	2.32E-03
5432	0.20	1.92E-10
5435	0.10	1.53E-03
5453	-0.20	2.23E-05
5454	-0.10	1.74E-03
5463	-0.10	7.62E-05
5465	0.10	8.13E-03
5470	-0.20	8.08E-08
5473	-0.10	1.37E-06
5475	0.10	6.99E-03
5480	0.10	1.53E-04
5483	0.10	3.61E-04
5485	-0.20	7.74E-04
5486	-0.20	7.78E-04
5491	0.10	3.87E-05
5493	-0.10	3.38E-04
5499	0.10	1.27E-03
5501	0.10	8.41E-08
5502	0.20	7.92E-08

5505	-0.20	1.33E-06
5511	-0.10	2.65E-06
5513	-0.20	5.87E-07
5520	0.10	9.51E-05
5522	-0.20	5.04E-09
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5535	-0.10	3.44E-03
5536	-0.10	5.15E-04
5537	-0.10	9.76E-03
5545	0.10	9.33E-03
5552	-0.10	1.74E-04
5555	-0.10	8.80E-03
5557	-0.10	2.67E-03
5558	-0.10	2.42E-03
5567	-0.10	3.85E-03
5570	0.20	3.91E-10
5572	0.10	9.19E-03
5574	-0.10	1.71E-05
5575	0.10	8.66E-05
5578	0.20	8.38E-06
5579	-0.10	3.33E-05
5580	-0.10	1.55E-04
5583	-0.20	3.87E-04
5590	0.10	2.02E-05
5592	0.10	4.30E-04
5593	-0.20	2.50E-07
5596	-0.10	7.23E-03
5597	-0.10	7.94E-03
5599	-0.10	5.00E-03
5602	-0.20	6.51E-09
5605	-0.20	6.82E-05
5606	-0.20	9.18E-05
5608	-0.20	8.05E-14
5611	-0.10	2.24E-05
5616	-0.10	1.14E-03
5619	0.10	2.82E-06
5623	0.20	6.67E-11
5624	-0.10	1.88E-03

5625	-0.20	3.66E-05
5626	0.10	1.05E-04
5627	0.10	1.18E-03
5634	-0.10	2.41E-05
5635	-0.10	1.90E-05
5639	-0.10	7.42E-04
5643	-0.10	7.38E-03
5647	-0.10	3.22E-04
5648	-0.10	1.92E-03
5663	0.20	2.11E-03
5670	0.20	2.47E-11
5674	-0.20	2.76E-08
5677	0.10	1.91E-06
5678	0.10	1.85E-04
5680	-0.20	2.87E-06
5682	0.10	1.91E-03
5684	0.30	1.30E-05
5691	0.10	1.10E-06
5693	-0.10	1.77E-07
5695	0.20	5.33E-03
5703	0.20	3.42E-12
5707	-0.20	2.06E-06
5708	-0.20	1.22E-05
5711	-0.10	2.55E-05
5713	0.20	1.69E-08
5714	0.10	7.84E-04
5715	-0.20	1.71E-08
5723	-0.20	8.17E-04
5729	0.10	5.74E-03
5741	-0.10	1.95E-05
5742	-0.10	1.23E-05
5752	0.20	1.63E-08
5753	-0.20	1.87E-04
5754	0.20	3.77E-13
5763	0.30	4.59E-06
5768	-0.10	4.10E-04
5774	-0.30	7.03E-06

5781	0.10	5.59E-03
5784	-0.10	1.56E-04
5785	-0.30	3.74E-09
5787	-0.10	9.74E-03
5791	-0.10	1.81E-07
5796	-0.10	5.32E-05
5798	-0.10	4.46E-05
5806	-0.30	4.47E-09
5807	0.20	6.77E-09
5808	0.20	6.25E-04
5815	-0.10	6.11E-03
5816	-0.20	1.32E-03
5817	-0.10	5.58E-03
5819	-0.10	1.46E-03
5821	-0.20	4.69E-11
5825	-0.10	1.77E-04
5835	0.20	6.33E-11
5838	-0.20	3.90E-10
5839	-0.20	4.83E-03
5840	0.10	1.43E-03
5841	0.20	7.23E-10
5845	-0.10	9.54E-03
5846	0.10	8.84E-04
5854	0.20	1.27E-03
5856	0.10	1.08E-03
5857	0.10	7.95E-05
5859	-0.10	3.59E-03
5860	-0.20	6.95E-04
5868	0.20	6.56E-10
5870	0.10	5.62E-03
5871	0.10	6.68E-05
5872	0.20	2.77E-05
5873	-0.10	1.02E-03
5875	-0.10	2.31E-03
5883	-0.10	3.73E-03
5884	-0.10	1.70E-04
5887	-0.30	2.82E-08
5897	-0.20	1.54E-15

5898	-0.10	2.02E-03
5902	-0.10	1.07E-04
5906	0.10	5.55E-03
5914	0.20	4.80E-08
5918	-0.10	3.86E-05
5921	-0.10	9.74E-04
5922	-0.20	9.87E-04
5923	0.10	3.02E-03
5924	-0.10	4.71E-03
5929	-0.10	7.65E-03
5930	-0.20	6.20E-12
5933	-0.20	5.78E-04
5937	0.20	1.71E-07
5942	0.10	1.73E-03
5946	-0.10	2.54E-04
5951	-0.10	6.69E-07
5952	-0.10	6.38E-05
5953	-0.10	3.58E-05
5966	0.10	2.85E-04
5968	-0.10	1.31E-05
5970	0.10	3.12E-07
5971	0.20	1.28E-17
5973	0.10	1.84E-06
5975	0.10	6.32E-04
5978	-0.10	7.29E-04
5989	0.10	9.10E-03
5990	-0.20	4.47E-10
5992	-0.10	4.42E-06
5993	-0.10	9.52E-03
5998	-0.10	8.83E-04
6006	-0.10	1.97E-04
6008	-0.10	2.86E-04
6013	-0.20	2.17E-03
6016	-0.10	5.78E-07
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6025	-0.20	1.69E-03

6033	-0.20	2.75E-05
6035	0.10	3.36E-05
6036	-0.10	6.07E-06
6040	0.10	9.57E-08
6052	-0.10	3.62E-04
6066	0.20	3.68E-10
6068	0.10	8.13E-08
6071	0.10	1.95E-04
6083	-0.10	8.64E-03
6086	-0.10	7.31E-04
6091	0.20	6.08E-05
6096	0.20	7.93E-04
6100	0.10	4.03E-03
6101	0.10	4.04E-03
6102	-0.10	4.33E-07
6103	-0.20	4.62E-10
6111	-0.20	6.53E-07
6112	-0.20	4.88E-13
6117	-0.20	4.68E-10
6118	0.10	4.18E-05
6124	0.10	2.81E-04
6134	-0.20	5.13E-09
6135	-0.20	4.84E-05
6141	0.20	1.05E-13
6143	-0.10	3.05E-05
6147	-0.10	6.56E-03
6148	-0.20	7.75E-03
6167	-0.10	3.86E-03
6168	-0.10	8.66E-04
6175	0.10	1.15E-03
6183	0.30	1.22E-04
6186	0.10	4.59E-04
6192	0.10	9.24E-03
6194	0.20	7.53E-03
6195	-0.10	6.11E-04
6196	-0.10	1.72E-04
6197	0.20	4.69E-10

6198	0.20	3.68E-10
6200	0.20	6.25E-09
6201	-0.10	4.61E-04
6204	-0.20	2.68E-06
6206	0.20	8.15E-04
6212	0.20	1.04E-08
6214	0.10	7.82E-05
6221	0.10	2.29E-03
6229	-0.10	5.54E-03
6233	-0.10	5.73E-03
6235	-0.10	7.86E-03
6238	0.10	1.31E-06
6239	-0.10	1.94E-06
6241	0.10	2.69E-05
6245	0.20	1.39E-09
6246	-0.20	5.79E-14
6248	-0.20	1.03E-04
6249	0.20	2.74E-13
6250	-0.10	3.96E-04
6253	-0.20	5.37E-14
6257	-0.20	9.61E-04
6258	-0.10	3.43E-04
6261	0.10	7.16E-12
6267	-0.20	3.39E-05
6272	-0.10	3.20E-04
6276	-0.20	3.31E-03
6284	0.10	2.27E-03
6286	-0.20	1.57E-06
6294	-0.10	3.55E-03
6303	0.10	2.10E-07
6304	0.20	7.46E-08
6305	0.20	3.73E-07
6307	-0.10	3.28E-04
6310	0.20	2.65E-10
6318	-0.10	3.03E-06
6319	0.20	3.93E-04
6330	-0.20	1.36E-06
6333	0.10	8.38E-03

6337	-0.20	9.52E-09
6339	-0.10	5.05E-03
6340	-0.10	1.68E-04
6343	0.10	4.44E-03
6346	-0.20	3.42E-04
6351	-0.20	3.22E-11
6352	-0.30	9.10E-07
6356	0.10	2.95E-05
6359	-0.10	2.99E-03
6360	-0.20	3.55E-04
6361	0.10	1.30E-04
6365	-0.20	5.26E-15
6366	-0.10	1.17E-04
6373	0.10	2.70E-06
6375	0.10	2.29E-03
6376	0.10	6.70E-04
6381	0.10	8.40E-08
6382	-0.10	9.12E-03
6388	-0.20	1.21E-05
6398	-0.20	6.10E-09
6402	-0.20	2.81E-04
6404	0.10	8.86E-03
6405	0.10	1.89E-05
6406	0.20	1.97E-07
6411	-0.10	8.95E-05
6412	0.10	1.96E-05
6415	-0.10	3.74E-03
6417	0.10	3.33E-06
6420	-0.10	4.98E-06
6431	-0.40	8.42E-06
6432	-0.10	6.51E-03
6436	0.10	5.47E-06
6438	0.10	2.48E-03
6439	0.20	6.10E-08
6441	0.20	2.12E-03
6454	-0.10	5.68E-05
6460	-0.10	7.22E-03

6461	-0.10	4.20E-03
6467	0.10	3.32E-03
6468	-0.20	6.21E-09
6473	-0.10	3.11E-03
6474	0.10	1.58E-05
6476	-0.20	1.16E-03
6478	0.10	2.91E-04
6483	-0.10	3.94E-03
6485	-0.10	1.22E-04
6486	0.10	6.38E-04
6487	0.10	1.58E-03
6491	-0.10	7.72E-03
6493	-0.20	6.23E-04
6498	-0.10	2.27E-04
6505	-0.10	8.16E-03
6509	-0.10	6.07E-04
6512	-0.10	9.87E-03
6515	0.10	2.17E-03
6520	0.10	3.09E-04
6522	0.10	2.72E-04
6523	-0.20	5.86E-17
6528	0.10	4.88E-06
6531	0.10	3.92E-03
6535	-0.10	2.32E-04
6540	-0.10	6.87E-04
6544	0.10	3.84E-05
6548	-0.10	2.74E-07
6549	-0.10	1.30E-03
6550	-0.10	1.25E-03
6551	-0.30	2.23E-07
6555	0.10	5.27E-04
6566	-0.20	5.77E-04
6568	-0.10	7.63E-05
6571	-0.20	2.53E-05
6576	0.10	9.90E-03
6577	0.10	2.89E-04
6578	-0.30	1.53E-04
6580	-0.10	7.39E-04

6582	0.10	7.36E-04
6583	-0.10	9.26E-04
6584	-0.10	1.08E-03
6587	0.10	2.50E-07
6599	0.10	1.33E-03
6615	0.10	5.26E-06
6617	0.20	3.04E-04
6619	-0.10	3.37E-08
6626	-0.20	3.57E-07
6635	-0.20	1.81E-05
6638	-0.10	6.38E-03
6639	0.10	1.16E-06
6640	-0.20	7.52E-06
6643	0.10	1.74E-05
6644	-0.20	1.83E-09
6647	0.10	4.36E-04
6648	-0.20	1.60E-03
6650	-0.10	1.64E-03
6651	-0.10	4.90E-03
6659	0.20	7.94E-10
6660	-0.20	7.28E-08
6669	0.10	2.06E-03
6671	-0.10	5.64E-05
6675	-0.20	4.81E-06
6676	-0.20	1.59E-08
6678	0.10	1.08E-03
6681	0.20	9.83E-13
6690	-0.20	5.23E-08
6692	0.10	2.89E-04
6697	0.20	4.66E-15
6703	-0.10	3.66E-03
6704	-0.10	2.54E-04
6706	-0.10	1.48E-05
6708	-0.10	9.66E-04
6709	0.20	4.06E-07
6711	-0.20	3.59E-06
6712	0.20	7.92E-06

6714	-0.10	7.51E-04
6718	-0.10	1.27E-03
6720	0.10	8.08E-04
6722	-0.10	9.50E-03
6724	0.10	2.04E-03
6727	0.20	1.38E-06
6736	0.10	1.92E-03
6748	0.10	2.77E-03
6749	-0.20	6.19E-06
6755	0.20	5.38E-11
6757	-0.20	2.56E-12
6764	0.20	1.94E-04
6774	-0.20	9.39E-07
6776	0.20	5.61E-11
6780	-0.20	1.92E-10
6783	-0.10	1.47E-03
6790	-0.10	6.04E-07
6808	-0.10	2.78E-03
6817	-0.20	2.51E-03
6818	-0.30	5.26E-28
6819	-0.20	7.86E-03
6820	-0.30	6.03E-07
6836	-0.10	1.85E-03
6839	0.20	8.34E-12
6840	0.10	3.38E-03
6843	-0.20	8.56E-10
6844	-0.20	1.16E-03
6849	-0.30	2.18E-08
6856	-0.10	7.00E-04
6859	0.10	8.46E-03
6862	-0.30	1.06E-06
6864	-0.10	5.24E-04
6867	-0.10	1.54E-03
6869	-0.20	6.02E-15
6871	-0.10	4.99E-04
6874	0.10	5.47E-03
6876	0.10	5.20E-04

6884	0.10	6.40E-03
6887	-0.10	9.29E-05
6888	-0.10	2.11E-04
6894	0.10	8.73E-05
6895	0.10	4.17E-03
6899	0.20	5.86E-06
6910	0.10	1.66E-03
6925	-0.20	1.48E-03
6933	-0.20	4.39E-03
6934	-0.20	4.46E-03
6936	-0.20	4.47E-15
6941	0.20	8.93E-03
6945	0.20	5.18E-10
6951	0.10	1.35E-06
6953	0.20	6.82E-08
6954	-0.10	5.30E-03
6961	0.30	1.03E-08
6962	0.20	1.68E-07
6986	0.10	9.18E-03
6989	-0.20	4.84E-03
6990	0.10	3.41E-03
6996	0.20	3.41E-10
6998	-0.20	1.10E-10
6999	-0.10	1.76E-04
7008	0.10	2.78E-04
7011	-0.10	1.15E-05
7012	-0.10	8.42E-06
7013	-0.10	5.22E-03
7020	0.10	3.12E-04
7021	-0.10	2.18E-05
7027	-0.20	4.92E-07
7028	0.20	3.01E-06
7031	-0.10	2.28E-05
7035	-0.10	4.90E-03
7036	-0.10	5.70E-03
7041	0.10	9.61E-03
7044	-0.10	1.37E-03
7045	-0.10	2.04E-03

7053	-0.10	2.29E-05
7063	0.10	2.35E-03
7064	0.10	5.75E-04
7072	-0.10	3.72E-03
7073	-0.10	3.72E-03
7079	0.10	6.90E-08
7081	-0.10	1.89E-03
7082	0.20	2.01E-07
7084	-0.20	7.92E-07
7085	-0.10	5.58E-03
7086	-0.10	3.99E-05
7087	0.10	1.19E-04
7092	0.10	1.09E-03
7093	0.20	5.46E-04
7095	0.20	8.52E-09
7101	-0.10	3.41E-07
7106	0.10	6.30E-03
7114	0.10	2.92E-04
7116	0.10	4.06E-05
7122	-0.20	8.05E-04
7123	0.20	2.70E-08
7128	0.10	1.55E-07
7130	0.20	1.58E-08
7134	-0.10	2.53E-03
7139	-0.20	9.69E-05
7140	-0.20	2.41E-03
7142	0.10	3.68E-03
7143	0.30	4.96E-05
7145	0.10	1.08E-05
7150	0.10	3.55E-03
7151	0.10	2.42E-03
10187	-0.13	1.66E-07
10193	-0.08	5.70E-03
10198	0.11	2.22E-03
10199	0.18	4.26E-12
10204	0.15	3.11E-06
10227	-0.13	3.47E-05

10231	0.18	1.61E-07
10245	0.08	9.70E-03
10248	0.09	4.82E-03
10255	0.13	8.30E-03
10257	0.12	6.20E-03
10258	-0.15	2.98E-05
10269	-0.19	2.56E-05
10271	-0.05	4.85E-03
10274	-0.29	3.24E-16
10280	0.22	8.91E-13
10283	-0.14	1.13E-04
10286	-0.11	3.25E-04
10287	0.09	1.14E-03
10288	0.14	5.86E-04
10290	0.14	4.01E-06
10291	-0.23	3.86E-16
10293	0.20	2.02E-03
10296	0.11	3.66E-04
10299	0.15	6.70E-06
10302	0.16	2.80E-09
10304	-0.19	1.22E-10
10305	-0.11	2.24E-05
10307	0.17	2.20E-03
10314	0.20	3.58E-06
10315	-0.14	4.09E-04
10324	-0.14	5.65E-08
10327	-0.26	2.17E-14
10328	0.10	9.38E-04
10341	-0.13	4.97E-05
10342	0.09	6.23E-03
10345	0.10	3.18E-04
10353	0.14	1.08E-03
10362	-0.16	1.38E-08
10366	-0.10	4.85E-03
10368	0.11	2.54E-03
10370	0.10	2.53E-04
10374	-0.09	1.70E-04
10375	-0.19	1.05E-07

10381	-0.09	1.83E-03
10385	0.08	7.15E-03
10386	-0.16	1.74E-09
10400	-0.13	2.13E-03
10402	-0.15	2.92E-08
10408	-0.12	2.32E-04
10412	0.11	4.90E-03
10413	0.11	4.32E-03
10425	0.13	2.88E-06
10427	-0.23	1.08E-06
10436	-0.22	1.24E-04
10438	0.15	7.18E-09
10441	0.16	2.19E-08
10444	-0.29	5.41E-19
13813	-0.16	4.83E-08
13831	-0.14	7.43E-06
13832	0.11	7.44E-04
13834	-0.14	6.39E-06
13837	0.11	5.85E-04
13843	-0.15	8.27E-04
13865	-0.26	1.32E-03
13869	-0.19	4.12E-07
13878	-0.14	5.62E-06
13885	0.17	2.75E-06
13891	-0.16	4.40E-05
13898	0.09	3.58E-03
13899	-0.18	1.38E-06
13900	-0.10	2.93E-04
13913	0.10	7.81E-04
13916	-0.19	9.83E-05
13917	-0.13	2.80E-05
13919	-0.22	7.63E-08
13920	-0.15	6.14E-04
13929	-0.12	8.24E-05
13934	-0.16	1.12E-07
13949	-0.14	1.97E-04
13951	0.08	4.08E-03

13958	0.14	1.22E-05
13959	-0.16	2.24E-05
13984	-0.15	6.03E-08
13998	0.32	4.57E-21
14007	-0.09	4.42E-05
14009	-0.15	3.56E-07
14010	-0.15	3.87E-08
14037	0.11	7.17E-03
14050	0.08	9.28E-03
14052	-0.18	3.42E-09
14071	-0.19	2.68E-11
14079	0.25	2.19E-21
14081	-0.14	1.53E-04
14083	-0.17	2.38E-04
14086	-0.13	1.38E-06
14088	0.15	5.16E-08
14113	0.18	2.18E-08
14125	-0.09	8.67E-03
14135	0.15	3.15E-03
14160	0.08	1.55E-03
14170	0.08	3.87E-03
14186	0.07	9.85E-03
14191	-0.19	2.13E-08
14194	-0.21	1.21E-06
14195	-0.19	1.60E-08
14197	-0.23	1.88E-06
14213	0.08	8.05E-03
14220	0.11	5.26E-04
14222	-0.15	3.22E-04
14237	-0.19	1.95E-08
14244	-0.22	1.60E-16
14246	-0.15	7.25E-08
14253	0.15	2.05E-04
14273	-0.20	9.58E-11
14279	0.10	3.74E-04
14281	0.11	2.10E-03
14284	-0.16	1.75E-03

14294	-0.21	2.65E-03
14296	-0.14	4.23E-07
14300	-0.12	5.67E-05
14301	0.12	1.98E-06
10604	-0.24	7.70E-13
10608	-0.18	6.63E-10
10612	-0.21	1.15E-06
10616	0.09	2.84E-03
10619	0.21	4.57E-04
10622	-0.16	3.28E-03
10625	0.11	1.94E-03
10627	-0.18	4.03E-11
10631	0.12	1.19E-04
10633	-0.16	5.79E-07
10644	0.15	1.63E-03
10647	0.15	1.34E-04
10668	-0.16	8.54E-04
10674	-0.13	3.05E-06
10677	0.09	5.42E-03
10678	-0.16	1.23E-03
10685	0.09	3.75E-03
10688	-0.15	4.49E-08
10717	-0.20	1.17E-10
10722	0.27	7.07E-13
10724	-0.24	7.52E-06
10738	-0.15	1.12E-04
10740	0.17	1.10E-07
10744	-0.19	2.34E-05
10748	0.11	1.04E-03
10752	-0.09	1.92E-03
10758	-0.15	9.01E-04
10763	-0.24	3.18E-05
10769	-0.12	1.42E-04
10775	-0.15	5.59E-08
10778	0.11	9.69E-05
10791	-0.11	5.53E-05
10798	0.09	1.37E-03
10801	-0.10	4.13E-04

10805	-0.14	5.33E-03
10811	-0.13	2.66E-03
10813	0.13	9.30E-05
10837	0.11	8.62E-05
3270	0.10	1.98E-06
3281	-0.10	6.87E-03
3286	0.10	1.47E-04
3302	0.20	2.01E-08
3303	0.20	1.82E-08
3312	-0.20	1.51E-09
3313	-0.20	1.94E-08
3317	0.30	1.29E-16
3318	0.20	9.53E-08
3322	-0.20	1.00E-10
3327	-0.20	4.60E-04
3334	-0.20	3.06E-08
3340	0.10	1.32E-04
3344	-0.10	5.40E-04
3353	0.10	5.60E-04
3359	-0.10	5.76E-06
3367	0.10	9.17E-05
3369	0.10	4.91E-03
3371	0.10	1.45E-07
3372	-0.10	1.17E-05
3379	-0.30	1.02E-06
3391	0.10	7.68E-05
3392	0.30	4.59E-10
3396	-0.20	7.91E-08
3401	0.10	1.98E-05
3402	0.10	1.35E-05
3779	0.10	5.56E-03
3780	0.20	2.88E-12
3784	0.10	5.85E-03
3785	-0.10	4.40E-05
3786	-0.10	3.48E-05
3622	-0.20	6.16E-04
3625	0.10	3.24E-04

3630	-0.10	4.90E-08
3631	-0.20	4.30E-09
3754	-0.10	7.92E-03
3755	0.20	3.97E-04
3759	-0.20	4.12E-06
3760	0.20	3.65E-10
3762	-0.20	1.33E-04
3763	0.30	4.77E-07
3768	-0.20	9.66E-04
3770	0.10	1.31E-06
3772	-0.20	1.82E-07
3776	-0.20	2.17E-12

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TABLE 24 - GENETIC MARKERS FOR FOOT ANGLE

A	B	C	A	B	C	A	B	C
17	-0.10	5.88E-03	2210	-0.10	8.65E-04	4521	0.10	1.24E-03
21	0.10	5.21E-03	2212	0.10	1.56E-06	4524	0.10	3.39E-04
26	0.10	3.57E-03	2217	-0.10	4.14E-04	4528	-0.10	2.58E-04
46	-0.10	6.51E-05	2218	-0.10	1.05E-03	4530	0.10	1.49E-04
50	-0.10	6.32E-04	2219	-0.10	1.70E-03	4531	-0.10	8.28E-03
54	0.10	6.43E-09	2227	-0.10	3.47E-03	4534	-0.10	6.53E-05
56	-0.10	2.52E-03	2238	-0.10	1.91E-03	4543	-0.10	1.34E-05
57	-0.10	7.00E-03	2248	-0.10	1.87E-04	4548	-0.10	2.53E-03
61	-0.10	4.81E-07	2250	-0.10	1.51E-03	4556	-0.10	1.18E-03
63	-0.10	1.82E-12	2261	-0.10	6.77E-08	4558	0.10	3.77E-05
75	-0.10	2.92E-04	2267	-0.10	9.28E-05	4559	0.10	1.92E-05
93	-0.10	1.51E-04	2276	0.10	5.80E-04	4576	0.10	2.58E-04
111	-0.10	1.36E-03	2278	0.10	3.11E-03	4577	0.10	4.16E-03
117	-0.10	1.91E-04	2283	0.10	2.34E-03	4578	0.10	7.69E-09
133	0.10	3.94E-05	2288	0.10	1.05E-04	4582	0.10	5.50E-03
137	-0.10	8.34E-03	2299	0.10	1.06E-03	4610	-0.10	6.16E-05
141	0.10	1.40E-03	2306	-0.10	4.02E-04	4613	-0.10	1.78E-04
143	-0.10	2.18E-03	2315	0.10	1.42E-04	4614	0.10	3.45E-03
152	0.20	9.75E-14	2317	0.10	2.59E-08	4619	-0.10	5.12E-15
153	0.10	1.60E-03	2324	-0.10	3.28E-03	4634	-0.20	2.93E-11
157	-0.10	8.80E-03	2329	-0.10	7.48E-05	4637	0.10	2.56E-04
161	0.10	6.74E-04	2330	0.10	8.39E-03	4642	0.10	5.44E-04
167	-0.10	5.40E-07	2335	-0.10	6.71E-04	4644	-0.10	5.91E-05
186	0.10	2.37E-03	2353	0.10	1.41E-03	4669	-0.10	8.39E-03
191	-0.10	2.91E-04	2360	-0.10	1.57E-03	4675	0.10	1.97E-07
196	-0.10	1.75E-04	2371	-0.10	9.38E-03	4676	-0.10	9.22E-06
200	-0.10	1.94E-03	2379	-0.10	1.19E-07	4686	-0.10	9.67E-06
210	-0.10	2.70E-04	2388	0.00	2.26E-03	4687	0.10	3.56E-04
219	-0.10	2.02E-05	2394	-0.10	3.62E-06	4710	-0.10	1.87E-05
220	0.10	2.05E-04	2398	0.10	2.08E-05	4714	0.10	6.67E-03
222	0.10	1.53E-03	2400	-0.10	1.18E-03	4720	0.10	2.34E-06
234	-0.10	2.00E-07	2407	0.10	3.82E-03	4725	0.10	1.10E-03
246	-0.10	2.43E-06	2408	0.10	3.13E-05	4739	0.10	2.16E-03
250	-0.10	8.51E-04	2432	0.10	4.40E-03	4740	0.10	1.53E-03
251	0.10	1.31E-03	2443	-0.10	3.52E-04	4746	0.10	2.28E-05

255	0.10	3.73E-03	2447	0.10	5.87E-04	4748	0.10	6.68E-04
261	-0.10	2.59E-04	2470	-0.10	6.18E-03	4752	-0.10	4.17E-08
262	-0.10	5.98E-03	2472	-0.10	1.35E-05	4756	0.10	1.06E-04
263	0.10	1.26E-03	2485	0.00	7.16E-03	4760	-0.10	1.02E-03
273	-0.10	3.77E-03	2486	0.10	1.26E-06	4761	-0.10	9.16E-04
277	-0.10	5.42E-04	2490	-0.20	6.04E-04	4770	0.10	2.66E-04
281	0.10	1.20E-04	2511	0.10	1.92E-03	4782	-0.10	2.48E-03
282	0.10	2.55E-05	2515	-0.10	2.11E-03	4789	-0.10	3.62E-06
283	0.10	5.11E-03	2534	-0.10	5.22E-03	4795	0.10	7.95E-03
284	0.10	3.98E-03	2543	-0.10	3.61E-03	4801	0.00	9.74E-03
287	-0.10	9.54E-05	2545	0.10	7.67E-03	4802	0.10	2.95E-03
288	-0.10	9.13E-05	2555	-0.10	4.57E-03	4807	0.10	2.68E-03
291	0.10	1.33E-03	2560	-0.10	2.85E-03	4814	0.10	1.01E-03
301	0.10	1.60E-04	2566	-0.10	2.28E-03	4819	0.10	9.32E-03
307	0.10	3.45E-03	2568	0.10	2.06E-03	4826	-0.10	4.82E-03
309	0.10	1.45E-04	2578	-0.10	5.35E-04	4831	0.10	8.33E-05
310	-0.10	5.87E-04	2583	-0.10	2.07E-10	4835	-0.10	2.37E-04
313	-0.10	1.52E-05	2584	-0.10	9.93E-04	4843	0.10	5.67E-05
319	-0.10	5.21E-03	2596	0.10	5.41E-03	4862	-0.10	5.15E-03
327	-0.10	3.73E-03	2620	0.10	7.18E-06	4863	-0.10	6.43E-08
366	-0.10	1.20E-07	2626	-0.10	4.22E-04	4868	0.10	9.46E-03
378	-0.10	3.61E-03	2647	-0.10	1.15E-05	4870	-0.10	1.99E-09
381	0.10	1.73E-06	2648	0.10	8.96E-04	4877	0.10	1.56E-07
385	-0.10	8.73E-04	2649	-0.10	2.26E-07	4901	-0.10	5.19E-06
396	-0.10	1.54E-04	2650	0.10	4.28E-08	4904	-0.10	2.62E-04
404	0.10	6.45E-03	2673	-0.10	1.12E-04	4919	0.10	2.27E-03
385								
415	-0.10	2.23E-05	2682	-0.10	7.18E-03	4929	0.10	2.97E-04
416	0.10	4.36E-05	2702	0.10	2.21E-03	4934	0.10	4.36E-03
436	0.00	3.86E-03	2705	-0.10	6.37E-03	4937	0.00	7.73E-03
457	-0.10	6.24E-04	2712	-0.10	3.79E-05	4942	-0.10	1.10E-03
458	0.10	2.97E-05	2713	0.10	2.66E-03	4943	-0.10	1.18E-03
463	-0.10	3.68E-04	2725	-0.10	2.75E-03	4958	-0.10	3.87E-03
465	0.10	1.46E-05	2727	0.10	5.34E-03	4967	-0.10	3.12E-05
470	0.10	2.03E-06	2735	0.10	1.62E-04	4974	0.10	8.53E-05
472	-0.10	1.44E-04	2738	-0.10	3.42E-04	4981	-0.10	6.52E-03
478	0.10	3.53E-05	2739	-0.10	2.16E-04	4982	0.10	9.72E-03
495	0.10	2.61E-08	2754	0.10	2.73E-03	4986	-0.10	9.98E-03

498	-0.10	5.00E-04	2756	-0.10	1.48E-03	5034	0.10	1.12E-03
511	-0.10	4.49E-03	2774	0.10	7.39E-06	5035	-0.10	8.10E-03
513	-0.20	4.32E-08	2782	0.10	3.42E-05	5037	-0.10	2.36E-03
515	0.10	7.53E-04	2786	0.00	7.76E-03	5042	0.10	2.68E-06
517	-0.10	1.79E-09	2796	-0.10	2.80E-03	5043	0.10	2.51E-06
518	0.10	2.82E-03	2800	-0.10	1.65E-04	5071	0.10	3.40E-03
521	0.10	5.68E-04	2801	-0.10	7.95E-05	5077	-0.10	3.70E-04
522	-0.10	2.35E-03	2805	0.20	6.18E-05	5079	0.10	9.90E-03
526	-0.10	2.15E-03	2817	-0.10	1.00E-03	5102	-0.10	6.27E-03
529	-0.10	3.73E-10	2836	-0.10	7.89E-04	5107	-0.10	3.55E-03
534	-0.10	2.99E-03	2841	-0.10	4.96E-05	5109	-0.10	3.13E-03
535	-0.10	4.38E-03	2848	-0.10	3.87E-03	5118	0.10	2.05E-03
536	0.10	2.13E-04	2853	0.10	6.80E-08	5120	0.20	2.53E-05
540	-0.10	2.49E-03	2857	0.10	9.93E-03	5123	0.10	1.65E-04
543	0.10	7.92E-03	2874	0.10	6.82E-03	5125	0.10	1.05E-03
552	0.10	5.65E-04	2878	-0.10	7.03E-05	5137	-0.10	6.53E-03
563	0.10	3.57E-03	2896	-0.10	1.30E-03	5140	-0.10	6.43E-04
578	-0.10	1.18E-04	2907	-0.10	4.84E-03	5151	-0.10	4.24E-04
579	0.10	6.70E-03	2909	0.10	1.12E-06	5166	-0.10	2.44E-04
582	0.10	8.28E-06	2922	-0.10	3.91E-05	5169	-0.10	8.21E-03
591	-0.10	6.76E-05	2927	-0.10	4.41E-03	5177	-0.10	7.41E-05
595	0.10	5.87E-03	2941	-0.10	2.00E-03	5205	0.10	4.32E-03
597	-0.10	1.12E-12	2959	-0.10	5.20E-03	5223	-0.10	2.78E-03
621	-0.10	2.40E-06	2960	-0.10	6.94E-04	5229	0.10	3.33E-04
624	-0.10	7.18E-03	3008	-0.10	5.45E-04	5242	0.00	6.45E-03
636	-0.10	2.11E-03	3029	-0.10	4.11E-04	5247	-0.10	4.77E-03
637	0.10	3.30E-03	3042	0.10	2.35E-03	5255	0.10	5.13E-07
638	0.10	1.54E-03	3059	0.10	3.85E-06	5257	-0.20	2.61E-03
640	-0.10	3.98E-08	3064	-0.10	8.61E-04	5280	0.10	5.21E-07
657	0.10	1.34E-05	3069	0.10	4.92E-08	5283	0.10	1.41E-03
658	-0.10	8.46E-03	3072	0.10	3.93E-04	5285	-0.10	3.38E-06
661	0.10	2.22E-04	3077	0.10	6.65E-04	5295	-0.10	5.57E-04
672	0.10	3.15E-03	3103	0.10	5.65E-03	5305	0.10	5.17E-04
675	0.10	2.46E-06	3112	0.10	1.81E-08	5310	-0.10	3.54E-03
680	0.10	9.69E-03	3124	-0.10	9.39E-07	5316	-0.10	1.91E-05
690	-0.10	1.65E-05	3127	0.10	1.21E-03	5325	-0.10	5.01E-03
707	-0.10	1.61E-03	3142	0.10	1.06E-03	5326	-0.10	1.22E-07
708	0.10	7.96E-04	3152	0.00	9.31E-03	5331	0.10	5.07E-03

724	-0.10	5.01E-03	3165	-0.10	6.79E-05	5335	-0.10	3.95E-03
746	0.10	2.37E-04	3166	0.00	9.37E-03	5343	0.10	7.39E-03
749	-0.10	8.15E-06	3168	0.10	1.88E-05	5345	0.10	2.27E-04
753	-0.10	2.31E-07	3169	-0.10	1.51E-12	5360	-0.10	5.38E-04
762	0.10	9.63E-06	3171	-0.10	2.38E-03	5361	-0.10	2.18E-04
764	0.10	1.28E-03	3172	-0.10	5.91E-05	5366	-0.10	6.01E-04
765	-0.10	6.36E-03	3183	-0.10	2.89E-03	5372	-0.10	1.91E-04
788	-0.10	9.39E-03	3188	-0.10	7.04E-03	5387	0.10	3.32E-04
789	-0.10	5.05E-03	3189	-0.10	2.25E-10	5391	-0.10	5.59E-04
793	0.20	5.53E-12	3193	0.10	1.82E-03	5419	0.10	7.91E-04
799	0.10	3.37E-04	3194	0.10	2.85E-03	5426	-0.10	8.49E-04
804	-0.10	5.19E-04	3196	0.10	1.72E-03	5427	-0.10	8.96E-04
808	-0.10	5.15E-04	3205	0.10	4.68E-03	5430	-0.10	7.67E-04
811	0.10	1.36E-03	3227	0.10	5.56E-03	5446	0.10	1.16E-05
386								
818	-0.20	6.76E-04	3234	-0.10	2.95E-06	5448	0.20	1.52E-03
827	0.00	6.65E-03	3257	0.10	6.27E-08	5456	-0.10	9.43E-03
844	-0.10	2.78E-03	3270	0.10	5.66E-04	5459	0.10	7.79E-04
854	-0.10	5.70E-03	3281	-0.10	4.04E-03	5478	0.10	2.15E-05
855	-0.10	1.87E-03	3285	-0.10	4.65E-03	5483	-0.10	6.26E-05
862	0.10	1.07E-03	3286	0.10	3.09E-03	5489	-0.10	8.97E-10
868	-0.10	5.79E-03	3295	-0.10	9.39E-04	5499	-0.10	1.54E-05
869	0.10	6.00E-05	3299	0.10	1.50E-03	5529	-0.10	5.90E-04
871	0.10	1.33E-05	3310	0.10	6.89E-03	5534	-0.10	3.28E-03
885	-0.10	9.70E-07	3320	0.10	6.39E-04	5548	0.10	2.02E-04
887	0.10	4.43E-04	3329	-0.10	1.30E-03	5551	-0.10	5.39E-04
901	-0.10	6.17E-04	3334	-0.10	9.97E-03	5557	0.10	1.38E-03
905	0.10	3.30E-05	3352	-0.10	4.74E-03	5558	0.10	1.45E-03
919	0.10	1.73E-07	3353	-0.10	3.35E-04	5577	0.10	3.17E-05
922	0.10	3.60E-03	3359	-0.10	4.11E-03	5583	0.10	2.73E-03
923	0.10	2.20E-03	3361	-0.10	2.52E-03	5590	0.10	3.58E-05
931	-0.10	2.54E-03	3372	0.00	8.48E-03	5595	0.10	9.78E-04
932	-0.10	7.00E-03	3376	0.10	1.72E-03	5596	-0.10	3.01E-06
940	-0.10	1.77E-03	3382	0.10	9.75E-06	5597	-0.10	3.97E-06
949	-0.10	3.04E-04	3385	-0.10	7.60E-03	5611	0.10	4.12E-03
974	-0.10	5.93E-03	3389	-0.10	6.21E-03	5613	0.10	1.37E-05
982	0.10	3.71E-03	3395	0.10	2.68E-09	5616	0.10	2.36E-03
989	0.10	9.78E-04	3400	0.00	2.79E-03	5627	-0.10	1.52E-03

993	-0.10	2.74E-03	3407	-0.10	2.22E-03	5639	-0.10	2.19E-04
999	0.10	8.29E-07	3423	0.10	7.75E-06	5643	0.10	6.44E-03
1004	-0.10	2.44E-04	3424	0.10	5.86E-03	5647	-0.10	6.74E-03
1006	0.10	1.74E-05	3435	-0.10	1.73E-03	5648	0.10	1.10E-03
1015	-0.10	1.62E-03	3437	-0.10	2.04E-07	5671	0.10	8.96E-06
1021	0.10	1.50E-04	3455	-0.10	3.85E-03	5673	-0.20	2.41E-03
1023	-0.10	6.06E-10	3482	-0.10	2.54E-03	5678	0.10	3.24E-03
1027	0.10	2.92E-07	3484	0.10	9.78E-04	5682	0.10	2.42E-05
1028	-0.10	2.77E-03	3493	-0.10	9.74E-03	5689	0.20	2.75E-05
1037	-0.10	3.35E-03	3497	-0.10	3.65E-04	5699	0.10	6.70E-03
1038	0.10	4.11E-03	3500	-0.10	3.10E-04	5704	0.00	6.83E-03
1042	-0.10	3.28E-04	3505	-0.10	2.54E-03	5711	0.10	1.36E-04
1043	0.10	8.93E-05	3521	0.10	5.32E-03	5712	-0.10	5.07E-03
1048	0.10	2.41E-03	3529	-0.10	3.78E-03	5731	0.10	9.54E-05
1057	0.10	8.79E-11	3533	-0.10	8.63E-03	5732	-0.10	5.97E-03
1078	0.10	9.80E-03	3538	-0.10	1.97E-08	5736	-0.10	6.92E-03
1085	0.10	7.86E-03	3540	0.00	9.87E-03	5756	0.10	9.46E-03
1089	-0.10	5.74E-05	3550	0.10	7.53E-03	5760	-0.10	5.38E-03
1123	-0.10	7.23E-03	3565	-0.10	2.84E-05	5761	0.10	7.58E-03
1139	-0.10	3.13E-04	3568	-0.10	4.11E-04	5762	0.10	8.03E-03
1140	0.10	9.19E-03	3569	-0.10	3.43E-03	5765	-0.10	1.33E-03
1144	0.10	1.12E-04	3579	0.00	6.71E-03	5771	0.10	2.42E-03
1146	0.10	2.09E-06	3601	-0.10	1.66E-06	5775	-0.10	8.30E-03
1147	0.10	4.04E-03	3613	-0.10	5.32E-04	5776	-0.10	3.79E-05
1160	0.10	2.77E-05	3629	-0.10	1.48E-06	5781	-0.10	2.43E-07
1164	0.10	3.72E-03	3631	-0.10	6.68E-09	5784	-0.10	2.61E-11
1171	0.10	1.12E-03	3642	-0.10	4.83E-03	5785	-0.10	6.78E-04
1175	-0.10	1.31E-03	3647	0.10	9.94E-03	5790	-0.10	1.58E-04
1178	-0.10	1.05E-04	3649	-0.10	2.38E-03	5791	-0.10	1.29E-03
1187	0.10	2.63E-03	3650	0.10	8.91E-03	5798	0.10	7.31E-05
1188	0.10	3.43E-03	3656	0.10	1.55E-03	5803	0.10	2.67E-03
1207	-0.10	5.58E-03	3659	0.10	2.66E-04	5806	-0.10	6.48E-03
1210	-0.10	9.54E-05	3666	-0.10	3.91E-03	5811	0.10	1.34E-05
1212	-0.10	4.04E-04	3667	0.10	8.68E-03	5820	-0.10	5.00E-04
1214	0.10	1.65E-03	3668	0.10	1.01E-05	5825	-0.10	1.89E-04
1224	0.10	4.53E-06	3675	0.20	6.52E-09	5831	-0.10	3.98E-07
1238	-0.10	1.21E-07	3679	-0.10	4.84E-03	5840	-0.10	8.93E-04
1239	-0.10	2.21E-03	3693	-0.10	8.16E-04	5850	0.10	1.52E-06

1243	0.10	5.14E-07	3698	0.10	3.84E-04	5852	0.10	6.33E-04
1246	0.00	3.15E-03	3714	0.00	1.68E-03	5857	-0.10	9.87E-03
387								
1247	0.00	1.87E-03	3715	0.10	4.51E-03	5870	-0.10	2.26E-04
1254	-0.10	3.67E-04	3716	0.10	4.07E-03	5872	0.10	3.20E-03
1255	0.00	4.87E-03	3722	0.10	4.50E-04	5880	0.10	2.43E-03
1256	0.10	6.63E-03	3731	0.10	9.87E-03	5890	-0.10	1.31E-03
1260	0.10	1.01E-05	3735	-0.10	2.17E-06	5900	-0.20	4.83E-05
1264	0.10	9.28E-05	3737	-0.20	3.37E-04	5904	0.10	5.49E-03
1274	0.10	2.55E-03	3743	0.10	9.18E-05	5906	0.10	3.18E-03
1301	-0.10	1.97E-03	3745	0.10	4.09E-07	5914	-0.10	1.42E-03
1320	-0.10	9.41E-04	3750	0.00	9.12E-03	5930	-0.10	6.75E-05
1329	-0.10	2.04E-03	3753	-0.10	1.08E-13	5934	-0.10	9.67E-03
1336	-0.10	6.99E-04	3755	0.10	3.83E-03	5945	-0.10	3.70E-08
1366	0.10	6.43E-03	3759	0.10	6.63E-03	5946	-0.10	8.48E-03
1369	0.10	9.68E-03	3763	0.10	2.80E-05	5957	0.10	2.92E-03
1379	0.10	9.48E-04	3765	0.00	7.77E-03	5960	0.10	9.25E-03
1396	0.10	4.08E-03	3768	-0.10	8.50E-04	5979	0.10	7.76E-04
1401	-0.10	2.67E-04	3773	-0.10	8.80E-03	6007	0.10	1.60E-03
1402	0.10	1.54E-03	3776	-0.10	5.94E-03	6016	-0.10	5.89E-04
1412	-0.10	1.34E-03	3794	0.10	9.15E-04	6020	-0.10	7.71E-05
1415	0.00	9.41E-03	3796	-0.20	5.52E-10	6021	-0.10	2.27E-04
1419	0.10	5.18E-03	3797	-0.20	3.32E-11	6028	0.10	8.86E-03
1420	0.10	3.45E-04	3801	-0.10	9.20E-03	6033	-0.10	2.49E-04
1421	0.00	3.38E-03	3808	-0.10	7.47E-03	6035	-0.10	8.93E-03
1436	0.10	5.94E-03	3814	-0.10	4.82E-04	6039	0.10	6.45E-03
1438	-0.10	9.53E-04	3830	0.10	6.83E-03	6053	-0.10	3.96E-03
1439	0.10	4.74E-03	3834	-0.10	4.61E-04	6058	-0.10	5.29E-03
1448	0.10	6.74E-04	3842	-0.10	3.83E-03	6067	0.10	9.11E-08
1451	-0.10	1.04E-03	3847	-0.10	5.99E-03	6070	-0.10	9.74E-03
1463	-0.10	2.27E-04	3864	-0.10	1.66E-12	6095	0.10	5.94E-03
1465	0.10	3.84E-03	3871	0.10	3.28E-05	6118	0.10	3.55E-05
1467	0.10	6.09E-04	3873	0.10	4.57E-03	6120	0.10	8.82E-03
1472	0.10	3.81E-03	3874	0.10	2.73E-03	6124	0.10	2.71E-03
1489	0.10	2.63E-03	3877	0.10	5.02E-03	6125	0.10	2.84E-04
1500	0.10	4.60E-03	3886	0.10	1.04E-06	6130	-0.10	1.65E-07
1504	-0.10	1.35E-03	3895	0.10	1.86E-03	6134	-0.10	1.52E-10
1521	0.10	2.51E-03	3900	-0.10	4.66E-05	6141	-0.10	7.89E-03

1528	-0.10	3.11E-03	3902	-0.10	9.12E-04	6145	-0.10	2.08E-03
1532	-0.10	6.71E-03	3905	-0.10	8.24E-05	6152	0.10	6.97E-05
1537	-0.10	1.73E-03	3907	-0.10	3.19E-03	6163	0.10	1.68E-05
1544	0.10	6.63E-04	3910	0.00	4.68E-03	6169	-0.10	3.67E-05
1545	0.10	4.93E-03	3924	0.10	5.53E-05	6170	0.10	1.77E-05
1550	0.00	2.20E-03	3931	-0.10	3.84E-03	6175	-0.10	3.07E-03
1551	0.10	4.90E-06	3933	0.10	3.96E-06	6180	-0.10	8.23E-03
1566	-0.10	1.93E-04	3946	0.10	1.28E-03	6195	-0.10	1.31E-04
1573	0.10	5.98E-05	3963	0.10	6.14E-06	6206	0.20	2.11E-05
1574	0.20	6.42E-05	3965	-0.10	8.61E-07	6225	-0.10	3.75E-04
1585	-0.10	3.78E-03	3975	-0.10	7.18E-03	6226	-0.10	4.80E-04
1591	-0.10	8.38E-07	3983	-0.10	1.81E-03	6232	0.10	1.94E-03
1596	-0.10	3.57E-03	3988	-0.10	4.02E-03	6238	0.10	2.28E-04
1597	-0.10	1.70E-05	3991	0.10	1.70E-05	6240	-0.10	1.04E-03
1601	-0.10	3.00E-03	3992	-0.10	6.68E-03	6242	0.10	6.59E-03
1612	0.10	1.49E-05	3996	-0.10	3.36E-04	6246	0.10	2.90E-03
1613	0.10	6.10E-08	4002	-0.10	3.81E-03	6249	0.10	3.38E-05
1617	-0.10	3.24E-06	4030	-0.10	2.09E-06	6261	0.10	1.48E-05
1622	-0.10	7.02E-04	4035	0.10	3.19E-03	6262	0.10	1.48E-04
1623	-0.10	8.51E-06	4038	0.10	6.32E-05	6263	-0.10	7.21E-05
1636	-0.10	1.25E-05	4039	0.10	1.02E-04	6267	-0.10	1.11E-03
1643	0.10	2.54E-03	4045	0.10	4.48E-03	6285	0.10	1.32E-03
1648	0.10	4.60E-07	4054	0.10	2.58E-03	6294	-0.10	8.81E-05
1650	-0.10	2.50E-03	4056	-0.10	1.18E-09	6301	0.10	2.27E-03
1656	-0.10	5.72E-04	4058	0.00	6.18E-03	6315	0.10	3.75E-07
1659	0.20	1.29E-05	4060	0.10	3.16E-03	6321	0.10	1.11E-03
1665	0.10	7.94E-03	4061	0.10	2.71E-03	6333	0.10	6.72E-04
1668	-0.10	1.15E-04	4067	-0.10	7.07E-07	6349	-0.10	9.65E-07
388								
1677	0.10	4.21E-05	4078	0.20	2.33E-03	6358	-0.10	3.14E-04
1700	-0.10	1.78E-05	4079	-0.10	2.68E-03	6361	-0.10	3.56E-04
1716	0.10	7.07E-03	4081	-0.10	4.76E-03	6362	0.10	2.51E-05
1751	0.10	4.44E-07	4082	0.10	1.97E-04	6365	-0.10	5.61E-04
1753	-0.20	3.10E-04	4086	-0.10	9.72E-03	6369	0.10	5.86E-04
1761	-0.10	6.35E-03	4087	-0.10	9.96E-03	6377	0.10	2.47E-03
1788	0.10	8.22E-05	4106	0.00	7.62E-03	6385	0.00	3.94E-03
1790	0.00	6.98E-03	4107	-0.10	2.78E-03	6387	0.10	2.14E-03
1815	-0.10	7.04E-04	4112	0.10	7.87E-04	6396	-0.10	3.31E-03

1823	-0.10	3.02E-06	4117	-0.10	2.04E-08	6398	-0.10	7.72E-05
1828	-0.10	9.39E-03	4120	0.10	1.92E-07	6408	0.10	4.65E-05
1836	-0.10	2.30E-11	4122	0.10	6.62E-03	6412	0.10	1.81E-05
1842	0.10	3.88E-03	4130	-0.10	2.12E-04	6414	0.10	1.57E-05
1843	-0.10	3.19E-03	4133	0.00	4.55E-03	6431	-0.20	2.50E-04
1846	-0.10	5.20E-04	4135	0.10	3.65E-03	6457	0.10	9.22E-03
1856	0.10	1.38E-05	4136	0.10	1.79E-03	6463	0.10	1.46E-03
1858	-0.10	2.78E-04	4153	-0.10	2.14E-03	6464	-0.10	5.35E-03
1876	0.10	3.57E-03	4156	-0.10	3.08E-03	6468	-0.10	4.91E-05
1881	0.10	6.98E-04	4162	-0.10	4.52E-03	6469	-0.10	2.17E-03
1887	0.10	1.73E-06	4163	0.20	8.64E-06	6477	0.10	1.69E-04
1892	0.10	1.21E-05	4164	0.00	9.92E-03	6479	-0.10	3.18E-03
1898	-0.10	5.37E-04	4165	-0.10	6.97E-03	6483	0.10	5.71E-03
1904	-0.10	3.44E-05	4166	-0.10	2.91E-03	6486	0.10	3.47E-03
1905	-0.10	1.24E-03	4175	-0.20	4.73E-04	6493	-0.10	1.50E-04
1906	-0.10	2.93E-04	4176	0.10	3.59E-03	6502	-0.10	3.59E-03
1926	0.10	8.94E-06	4188	0.10	2.56E-08	6509	-0.10	1.32E-06
1928	-0.10	1.71E-03	4193	-0.10	2.15E-03	6520	0.10	5.13E-03
1932	-0.10	2.80E-03	4198	0.10	2.72E-07	6528	0.10	5.07E-04
1939	0.00	8.01E-03	4202	0.10	9.91E-03	6539	0.10	4.12E-09
1941	-0.10	2.38E-04	4212	0.10	1.43E-03	6545	0.10	6.09E-07
1953	-0.10	2.82E-04	4227	-0.10	5.65E-03	6548	0.10	3.21E-03
1962	-0.10	5.58E-04	4246	0.00	8.29E-03	6562	-0.10	2.15E-04
1963	-0.10	6.77E-03	4248	-0.10	8.81E-03	6572	-0.10	5.92E-03
1964	-0.10	6.13E-03	4261	-0.10	2.15E-11	6580	-0.10	7.35E-03
1971	-0.10	1.22E-11	4264	-0.10	2.29E-03	6584	0.10	3.20E-05
1983	0.10	1.01E-03	4279	-0.10	2.13E-03	6585	0.10	8.26E-03
1986	-0.10	3.24E-04	4281	0.10	9.25E-04	6629	0.10	6.97E-03
1988	-0.10	4.20E-03	4294	0.10	2.79E-09	6637	-0.10	2.04E-06
2007	-0.10	2.12E-03	4298	-0.10	2.54E-04	6638	0.10	4.85E-03
2008	0.10	6.69E-05	4299	-0.10	3.76E-03	6643	0.10	3.28E-03
2035	-0.10	7.83E-04	4306	0.10	2.64E-08	6644	0.10	7.09E-04
2041	-0.10	2.91E-04	4307	0.10	1.27E-03	6647	0.10	1.42E-04
2044	-0.10	3.99E-04	4311	-0.10	9.67E-04	6660	-0.10	3.81E-05
2049	-0.10	9.40E-05	4317	0.10	9.52E-12	6668	0.10	2.50E-03
2050	-0.10	4.51E-04	4319	-0.10	5.64E-03	6675	0.10	1.93E-03
2056	0.10	1.68E-03	4334	0.10	7.21E-05	6686	0.00	8.25E-03
2061	-0.10	7.13E-03	4337	0.10	8.15E-07	6689	-0.10	3.45E-04

2071	0.10	9.65E-03	4339	-0.10	3.04E-06	6698	0.10	1.98E-04
2080	-0.10	2.04E-03	4343	-0.10	4.30E-03	6726	0.10	6.75E-05
2084	0.10	9.09E-04	4344	0.10	8.39E-06	6741	0.10	2.56E-03
2088	0.10	3.51E-03	4358	-0.10	5.61E-03	6748	-0.10	2.23E-03
2092	-0.10	6.36E-04	4377	0.10	5.46E-05	6752	0.10	9.93E-04
2096	0.00	9.62E-03	4389	-0.10	1.20E-03	6760	-0.10	1.34E-03
2098	0.10	2.31E-05	4395	0.10	2.11E-07	6774	0.10	2.53E-03
2106	-0.20	3.56E-05	4406	0.10	3.96E-04	6780	-0.10	3.47E-03
2107	0.10	1.78E-07	4409	0.10	3.11E-05	6784	-0.10	5.19E-03
2110	0.10	2.59E-04	4410	-0.10	3.54E-09	6785	0.10	5.58E-03
2118	0.10	3.63E-03	4414	0.10	1.07E-03	6786	0.10	8.12E-03
2126	-0.10	5.22E-03	4454	0.10	1.04E-04	6795	-0.10	8.77E-03
2136	-0.10	4.85E-04	4463	-0.10	3.09E-03	6805	0.10	2.01E-04
2140	0.10	9.17E-03	4467	0.10	8.73E-04	6806	-0.10	4.78E-03
2144	-0.10	1.30E-04	4478	-0.10	1.32E-03	6808	-0.10	3.68E-03
2155	-0.10	1.94E-09	4480	-0.10	5.44E-04	6809	0.10	5.89E-04
389								
2156	-0.10	2.90E-09	4485	-0.10	1.68E-04	6816	-0.10	2.81E-03
2157	0.10	1.85E-03	4489	0.10	1.87E-08	6833	-0.10	1.36E-06
2163	-0.10	1.17E-03	4506	0.10	4.08E-04	6840	0.10	2.58E-03
2193	-0.10	9.18E-07	4507	-0.10	2.00E-06	6851	0.10	3.55E-05
####	0.10	9.32E-03	11226	0.02	5.00E-02	3030	-0.04	5.00E-02
####	-0.10	1.25E-03	11243	0.10	5.00E-02	3791	0.03	5.00E-02
####	-0.10	4.40E-05	11300	-0.43	5.00E-02	3854	-0.04	5.00E-02
####	-0.10	8.02E-03	11526	-0.17	5.00E-02	3882	0.05	5.00E-02
####	0.10	1.08E-09	12074	0.36	5.00E-02	3935	0.02	5.00E-02
####	-0.10	3.99E-04	12129	0.17	5.00E-02	4253	-0.03	5.00E-02
####	-0.10	1.57E-04	12197	0.03	5.00E-02	4546	-0.06	5.00E-02
####	-0.10	3.79E-05	12231	0.09	5.00E-02	4806	-0.03	5.00E-02
####	-0.10	7.59E-05	12244	-0.18	5.00E-02	5068	-0.04	5.00E-02
####	-0.10	1.33E-04	12717	-0.03	5.00E-02	6166	0.03	5.00E-02
####	0.10	4.68E-03	12884	0.23	5.00E-02	6481	0.04	5.00E-02
####	-0.10	5.99E-03	12992	-0.26	5.00E-02	6553	0.15	5.00E-02
####	0.10	9.60E-04	13106	0.14	5.00E-02	6974	0.03	5.00E-02
####	0.10	3.40E-03	13193	0.40	5.00E-02	7179	-0.03	5.00E-02
####	-0.10	2.56E-03	13639	0.02	5.00E-02	7716	0.02	5.00E-02
####	0.10	4.25E-04	13770	0.34	5.00E-02	8254	-0.02	5.00E-02
####	0.20	1.14E-16	13911	0.36	5.00E-02	8311	-0.06	5.00E-02

####	-0.10	2.00E-03	14099	0.25	5.00E-02	8475	0.14	5.00E-02
####	0.10	2.07E-03	14148	0.42	5.00E-02	8779	0.10	5.00E-02
####	0.10	2.88E-07	14252	-0.04	5.00E-02	8788	0.04	5.00E-02
34	0.02	5.00E-02	14375	-0.10	5.00E-02	8872	-0.02	5.00E-02
103	-0.04	5.00E-02	14412	-0.16	5.00E-02	9343	0.07	5.00E-02
236	0.10	5.00E-02	14505	-0.07	5.00E-02	9776	-0.04	5.00E-02
519	0.29	5.00E-02	14529	0.20	5.00E-02	9974	0.02	5.00E-02
604	0.03	5.00E-02	14732	0.14	5.00E-02	10111	0.07	5.00E-02
616	0.06	5.00E-02	14785	0.02	5.00E-02			
1047	-0.03	5.00E-02	14789	0.17	5.00E-02			
1368	-0.02	5.00E-02	14814	-0.10	5.00E-02			
1432	0.03	5.00E-02	14878	-0.25	5.00E-02			
1897	0.03	5.00E-02	15004	0.19	5.00E-02			
1935	-0.21	5.00E-02	15019	0.05	5.00E-02			
2678	0.03	5.00E-02	15167	0.13	5.00E-02			
2699	-0.12	5.00E-02	15275	0.20	5.00E-02			
2718	0.04	5.00E-02	15361	0.09	5.00E-02			

A	B	C	A	B	C	A	B	C
6852	-0.10	9.20E-03	9251	0.10	6.45E-03	11733	0.20	1.63E-04
6858	0.10	8.98E-04	9259	-0.10	5.21E-04	11735	-0.10	5.09E-03
6874	-0.10	1.67E-03	9261	0.00	1.01E-03	11745	0.10	3.94E-03
6909	-0.10	5.48E-03	9264	-0.10	1.13E-04	11747	0.10	3.91E-05
6936	-0.10	4.45E-03	9284	-0.10	1.49E-06	11748	-0.10	7.37E-04
6945	0.10	4.70E-04	9285	0.10	3.42E-05	11749	0.10	6.33E-05
6951	-0.10	4.81E-03	9288	-0.10	1.16E-04	11756	0.10	1.90E-03
6953	0.10	6.57E-07	9293	0.10	4.43E-03	11771	0.10	2.40E-03
6960	-0.10	9.36E-03	9294	0.10	2.67E-03	11780	0.10	3.74E-05
6987	0.00	1.17E-03	9300	0.10	7.99E-04	11791	0.10	1.82E-04
6991	-0.10	1.05E-03	9301	0.10	6.40E-03	11796	0.10	9.53E-03
7008	-0.10	2.40E-03	9304	0.10	8.00E-05	11799	0.10	1.43E-03
7022	-0.10	8.92E-03	9309	0.10	1.81E-03	11806	0.10	3.99E-04
7025	0.10	3.65E-03	9313	0.10	8.91E-05	11809	-0.10	8.05E-03
7027	0.10	7.46E-03	9314	0.10	4.78E-03	11812	-0.10	6.48E-03
7028	-0.10	8.57E-03	9316	0.10	8.47E-04	11815	-0.10	1.77E-04
7031	-0.10	1.07E-07	9319	-0.10	3.34E-03	11847	-0.10	3.86E-04
7035	0.10	4.92E-04	9322	0.10	4.11E-06	11848	0.20	2.42E-05
7036	0.10	6.65E-04	9330	0.10	1.68E-04	11861	-0.10	5.85E-03
7040	-0.10	6.38E-05	9332	0.10	2.53E-03	11888	-0.10	1.70E-03
7045	0.10	2.13E-04	9339	0.10	2.76E-03	11892	0.10	4.52E-05
7049	0.10	4.23E-03	9352	-0.10	1.99E-03	11894	-0.10	2.48E-05
7059	0.10	2.04E-04	9353	-0.10	2.32E-03	11909	-0.10	1.93E-03
7072	-0.10	1.36E-04	9364	-0.10	2.52E-06	11910	-0.10	8.53E-04
7073	-0.10	1.36E-04	9375	0.10	4.19E-03	11918	-0.10	6.00E-07
7074	0.10	2.87E-03	9376	0.10	4.16E-03	11919	0.10	1.71E-03
7081	0.10	6.27E-04	9378	0.10	2.95E-03	11920	-0.10	5.17E-03
7095	0.10	3.16E-03	9382	-0.10	3.42E-05	11931	0.10	3.66E-09
7097	-0.10	8.41E-03	9389	-0.10	2.42E-06	11933	-0.10	1.11E-05
7098	-0.10	7.17E-05	9394	-0.10	3.00E-04	11939	-0.10	7.19E-03
7106	0.10	7.94E-04	9397	0.10	1.58E-04	11945	0.10	6.54E-05
7107	-0.10	8.62E-04	9401	0.10	2.71E-04	11963	0.10	1.27E-03
7124	0.10	3.61E-05	9417	0.10	2.62E-03	11976	0.10	2.20E-05
7125	0.10	6.59E-03	9437	-0.10	4.00E-03	11998	0.10	1.69E-04
7134	-0.10	2.55E-03	9444	0.10	5.76E-03	12009	-0.10	5.33E-09

7135	0.10	4.78E-03	9449	-0.10	2.27E-03	12010	0.10	7.89E-04
7136	0.10	6.96E-03	9452	-0.10	3.91E-03	12015	0.10	1.19E-03
7142	0.10	5.10E-03	9453	0.10	1.23E-03	12032	0.10	4.25E-04
7143	0.10	6.04E-03	9458	-0.10	6.27E-03	12042	0.10	5.14E-04
7150	-0.10	7.41E-03	9462	-0.10	3.84E-03	12046	0.10	2.63E-04
7151	0.00	9.54E-03	9464	0.10	1.43E-03	12050	0.10	5.90E-03
7162	0.10	1.18E-04	9468	0.10	5.58E-05	12052	0.10	2.39E-03
7166	-0.10	3.42E-06	9472	-0.10	2.91E-03	12056	0.10	2.32E-04
7170	0.10	3.01E-03	9474	-0.10	4.61E-04	12060	0.10	1.39E-03
7174	-0.10	7.45E-03	9492	-0.10	1.61E-03	12063	-0.10	3.81E-05
7182	0.10	2.30E-03	9508	0.00	7.28E-03	12066	-0.10	2.95E-03
7184	0.00	6.48E-03	9509	0.10	9.64E-03	12073	-0.10	1.23E-06
7193	0.20	4.96E-04	9516	-0.10	4.32E-07	12081	-0.10	1.12E-03
7205	0.00	6.89E-03	9519	0.10	7.19E-03	12090	-0.10	8.25E-03
7221	-0.10	4.01E-04	9523	0.10	9.35E-03	12127	0.10	5.16E-04
7227	0.10	9.06E-04	9532	-0.10	2.01E-03	12131	0.10	4.68E-04
7228	0.10	6.79E-04	9544	0.10	1.02E-03	12152	-0.20	1.80E-08
7231	0.10	3.22E-05	9548	0.00	7.10E-03	12162	-0.10	3.20E-03
7233	-0.10	2.15E-03	9551	-0.10	8.91E-03	12168	-0.10	1.15E-03
7241	-0.10	2.89E-06	9552	0.10	1.06E-07	12208	-0.10	3.17E-03
7252	0.10	1.07E-03	9594	-0.10	1.16E-06	12210	-0.10	9.85E-03
7263	0.10	9.08E-05	9605	0.10	9.07E-04	12214	-0.10	6.21E-05
7264	0.10	1.72E-04	9617	-0.10	4.35E-03	12233	-0.10	9.04E-03
7269	-0.10	3.35E-03	9619	-0.10	3.67E-05	12235	-0.10	3.40E-04
7271	-0.10	4.20E-03	9624	0.10	4.26E-03	12241	-0.10	1.04E-03
7277	0.10	6.65E-04	9627	-0.20	3.72E-04	12242	0.00	8.79E-03
7280	-0.10	3.58E-08	9641	-0.10	5.11E-03	12245	-0.10	3.92E-12
7284	0.10	6.11E-03	9647	0.10	8.11E-03	12249	0.10	9.93E-04
7292	0.10	2.52E-03	9668	0.10	7.67E-06	12283	0.10	6.76E-03
7296	0.10	9.20E-04	9670	-0.10	5.61E-06	12292	0.10	1.45E-05
7300	-0.10	4.45E-03	9676	0.10	1.48E-06	12305	0.10	3.64E-07
7302	-0.10	9.77E-03	9684	0.10	6.59E-04	12307	0.20	4.31E-09
7329	-0.10	2.89E-03	9692	0.10	5.26E-07	12329	0.10	9.03E-06
7340	-0.10	3.20E-04	9699	0.10	7.08E-03	12330	0.10	9.42E-07
7350	0.10	1.16E-04	9700	0.00	9.96E-03	12336	0.10	4.33E-09
7351	-0.10	6.87E-03	9701	-0.10	7.69E-07	12341	-0.20	1.50E-08
7352	-0.10	7.92E-03	9708	0.10	4.11E-04	12344	0.10	4.82E-03

7356	-0.10	3.59E-04	9716	-0.10	8.92E-03	12356	-0.10	3.34E-03
7359	0.20	2.28E-04	9719	0.10	2.17E-06	12358	-0.10	1.59E-03
7361	-0.10	2.42E-04	9722	-0.10	4.06E-03	12362	-0.10	3.66E-03
7373	0.10	1.97E-05	9738	0.10	1.49E-04	12379	-0.10	1.86E-11
7376	0.10	8.29E-04	9744	0.10	7.35E-03	12414	0.10	5.44E-04
7383	-0.10	3.70E-04	9750	-0.10	1.74E-04	12423	-0.10	3.38E-06
7407	-0.10	2.17E-03	9751	-0.10	5.78E-03	12439	-0.10	2.45E-03
7410	0.10	7.53E-03	9763	-0.10	3.87E-03	12444	-0.10	3.95E-03
7426	0.10	1.20E-03	9769	0.20	3.26E-05	12458	0.10	3.08E-03
7451	-0.10	4.21E-03	9779	-0.10	4.90E-04	12462	0.10	9.86E-08
7460	0.10	2.73E-07	9780	-0.10	8.79E-03	12466	-0.10	1.88E-08
7468	0.10	1.04E-03	9788	-0.10	2.76E-03	12484	0.10	6.23E-03
7472	-0.10	3.99E-08	9789	-0.10	9.53E-03	12489	-0.10	1.56E-03
7486	-0.10	8.18E-03	9794	0.10	5.76E-03	12491	0.10	1.92E-03
7495	0.10	4.20E-03	9796	-0.10	6.46E-03	12499	0.10	3.81E-05
7496	-0.10	1.70E-03	9802	-0.20	7.20E-05	12516	0.20	5.03E-05
7503	-0.10	8.84E-04	9816	-0.10	2.66E-03	12532	0.10	4.50E-04
7505	0.10	2.68E-03	9822	-0.10	1.01E-03	12534	0.10	2.71E-03
7508	0.10	5.71E-04	9828	-0.10	1.41E-04	12549	0.10	2.96E-03
7519	-0.10	2.74E-03	9832	-0.10	4.72E-04	12572	0.10	5.80E-05
7526	-0.10	5.85E-03	9843	-0.10	8.87E-03	12583	0.10	1.16E-05
7537	0.00	3.35E-03	9873	-0.10	1.41E-04	12584	-0.10	1.32E-03
7540	0.10	1.10E-03	9874	-0.10	2.32E-10	12588	0.10	9.34E-05
7546	-0.10	1.37E-03	9877	-0.10	2.85E-04	12589	0.10	1.30E-03
7561	-0.10	7.46E-04	9879	0.10	7.68E-05	12615	0.10	9.48E-05
7565	-0.10	2.15E-03	9899	-0.10	1.94E-06	12625	-0.10	1.98E-03
7569	0.10	4.44E-03	9925	0.10	1.23E-03	12627	-0.10	1.51E-03
7577	-0.10	9.35E-03	9935	-0.20	4.60E-11	12630	-0.10	6.72E-06
7580	0.10	2.05E-04	9936	0.00	9.96E-03	12643	-0.10	5.43E-06
7590	0.10	2.37E-04	9945	-0.10	1.70E-04	12644	-0.10	1.72E-03
7594	-0.10	1.76E-12	9947	0.20	2.01E-03	12675	-0.10	3.37E-03
7599	0.10	1.17E-03	9949	-0.10	9.86E-03	12705	0.10	3.52E-03
7604	0.10	5.51E-03	9957	0.10	6.37E-04	12710	0.10	8.12E-03
7609	-0.10	4.96E-03	9961	0.10	8.85E-08	12730	-0.10	5.15E-04
7632	0.10	1.21E-03	9963	0.10	3.63E-03	12732	0.10	1.28E-03
7637	-0.10	2.25E-03	9964	0.10	5.25E-03	12735	-0.10	8.83E-03
7649	-0.10	3.81E-03	9973	-0.10	1.37E-03	12754	-0.10	5.50E-03
7660	0.20	6.09E-16	9975	0.00	3.50E-03	12782	0.10	4.88E-03

7666	-0.10	6.41E-05	9989	0.10	4.66E-06	12785	0.10	4.31E-05
7670	0.10	1.35E-03	9995	0.10	5.63E-10	12795	0.10	1.23E-04
7671	0.10	1.30E-03	10001	0.10	3.88E-03	12807	0.10	5.59E-04
7684	-0.10	5.93E-04	10006	0.10	4.51E-03	12849	-0.10	5.35E-04
7699	-0.10	3.62E-03	10018	0.10	6.26E-05	12852	0.10	4.88E-03
7721	-0.20	2.05E-11	10023	0.10	7.98E-03	12876	-0.10	1.69E-03
7724	0.10	8.34E-03	10025	-0.10	1.28E-06	12880	-0.10	8.17E-03
7726	-0.10	3.85E-04	10026	0.00	9.50E-03	12893	-0.10	9.02E-03
7737	-0.10	3.63E-04	10027	-0.10	1.58E-04	12898	0.00	5.99E-03
7739	0.10	6.22E-05	10033	-0.10	3.96E-03	12905	-0.10	5.61E-07
7745	0.00	8.50E-03	10034	-0.10	2.05E-03	12907	0.10	6.86E-06
7747	-0.10	6.44E-06	10041	-0.10	2.83E-03	12908	-0.10	2.78E-03
7749	-0.10	2.74E-04	10043	-0.10	5.97E-03	12910	-0.10	2.21E-03
7756	-0.10	6.69E-03	10046	-0.10	5.05E-08	12914	-0.10	2.25E-05
7759	-0.10	2.20E-03	10047	0.10	7.77E-07	12927	-0.10	9.68E-06
7771	-0.10	9.15E-03	10053	-0.10	2.81E-04	12935	0.10	2.27E-03
7774	-0.10	7.24E-04	10054	-0.10	6.41E-06	12950	0.10	5.72E-03
7781	0.10	1.89E-04	10056	0.10	3.02E-03	12958	-0.10	5.19E-03
7785	-0.10	1.60E-06	10059	-0.10	5.19E-03	12961	-0.10	9.69E-03
7787	-0.10	5.81E-05	10066	-0.10	4.69E-07	12962	0.10	1.30E-03
7788	0.10	1.07E-03	10067	0.00	7.18E-03	12963	-0.10	2.28E-03
7789	0.10	4.12E-04	10077	0.00	9.52E-04	12967	-0.10	2.40E-03
7791	0.10	8.22E-03	10079	0.10	1.77E-03	12977	0.20	3.63E-14
7796	-0.10	1.86E-03	10083	-0.10	6.85E-03	12979	-0.10	8.17E-03
7804	0.00	8.16E-03	10103	0.10	5.62E-04	12993	-0.10	7.83E-04
7822	-0.10	8.21E-04	10117	0.10	3.44E-03	12994	0.10	3.98E-03
7828	-0.10	5.20E-05	10119	-0.10	1.00E-04	12995	-0.10	1.97E-08
7846	0.10	4.14E-03	10120	-0.10	1.31E-03	13000	-0.10	4.06E-07
7859	-0.10	1.97E-06	10126	0.10	2.57E-03	13001	0.10	6.67E-03
7874	0.10	3.88E-03	10139	-0.10	6.26E-07	13048	0.10	9.08E-03
7879	-0.10	9.87E-06	10148	-0.10	1.77E-09	13054	-0.10	1.23E-05
7886	-0.10	4.58E-06	10151	-0.10	1.95E-04	13055	-0.10	4.43E-03
7899	-0.10	9.65E-07	10157	-0.10	3.60E-04	13060	-0.10	4.46E-03
7906	0.10	1.39E-08	10173	0.10	4.83E-06	13097	-0.10	1.15E-07
7910	-0.10	2.13E-03	10177	0.10	5.52E-05	13107	0.10	9.44E-03
7916	0.10	1.73E-03	10203	-0.10	5.01E-03	13111	0.10	9.67E-08
7924	-0.10	7.41E-05	10206	0.10	2.95E-05	13113	-0.10	2.92E-07

7931	-0.10	8.54E-03	10227	-0.10	8.21E-03	13128	-0.10	2.66E-03
7941	0.10	8.33E-04	10229	-0.10	6.33E-04	13161	-0.10	5.86E-04
7948	0.00	9.24E-03	10237	0.10	9.99E-04	13174	0.10	3.08E-05
7952	-0.10	1.63E-05	10253	-0.10	1.50E-03	13178	-0.10	2.08E-03
7959	-0.10	3.97E-03	10254	-0.10	3.06E-04	13185	0.10	2.29E-09
7962	-0.10	4.08E-03	10262	-0.10	2.49E-05	13194	0.10	8.78E-03
7966	0.10	6.90E-03	10263	-0.10	2.98E-05	13199	0.10	9.61E-03
7979	0.10	7.10E-04	10267	0.10	3.96E-03	13210	0.10	4.76E-06
7983	0.10	3.27E-03	10274	0.10	1.34E-03	13224	0.10	8.87E-03
7997	0.10	3.26E-03	10277	-0.10	3.12E-03	13253	0.10	3.69E-03
8009	-0.10	1.22E-03	10296	-0.10	7.62E-05	13313	0.10	4.75E-04
8039	-0.10	5.27E-05	10300	0.10	1.01E-03	13319	-0.10	5.14E-05
8062	-0.10	1.25E-03	10315	-0.10	8.67E-03	13323	0.10	8.13E-03
8063	-0.10	1.23E-03	10322	0.00	5.29E-03	13324	0.10	3.16E-05
8064	0.10	3.93E-12	10323	0.10	8.55E-04	13332	0.10	9.01E-03
8075	-0.10	5.56E-04	10335	-0.10	1.16E-04	13336	-0.10	1.20E-03
8078	0.10	2.53E-04	10347	0.10	5.03E-06	13394	0.10	3.49E-04
8086	-0.10	1.68E-07	10358	0.10	3.08E-03	13396	-0.10	2.76E-04
8087	-0.10	5.26E-03	10361	-0.10	5.37E-03	13412	0.10	6.54E-03
8090	0.10	4.05E-04	10363	0.10	8.17E-06	13415	-0.10	5.24E-05
8092	-0.10	1.06E-05	10367	0.10	1.67E-09	13432	-0.10	7.54E-05
8094	0.10	4.03E-04	10385	0.10	8.48E-04	13434	-0.10	1.60E-04
8098	0.10	3.67E-03	10387	-0.10	4.14E-03	13441	-0.10	6.10E-04
8118	0.10	9.64E-04	10388	0.10	4.80E-03	13448	0.10	9.51E-03
8124	0.10	5.55E-08	10395	0.10	1.01E-04	13461	0.10	3.56E-05
8125	0.10	4.70E-08	10402	0.10	4.28E-08	13466	-0.10	3.14E-04
8127	0.00	8.95E-03	10410	0.10	8.41E-08	13476	-0.10	1.78E-04
8149	0.10	6.25E-04	10418	-0.10	6.53E-06	13479	-0.10	2.53E-07
8161	0.00	7.54E-03	10423	0.10	9.70E-05	13497	-0.10	8.09E-04
8166	0.10	4.80E-04	10426	-0.10	4.38E-03	13516	0.10	1.17E-07
8171	-0.10	7.23E-03	10438	0.10	4.43E-03	13546	0.10	3.95E-04
8172	0.10	2.75E-05	10439	0.10	3.53E-05	13553	0.10	5.68E-03
8185	0.10	9.36E-03	10444	-0.10	1.45E-05	13575	-0.20	4.43E-04
8189	-0.10	7.35E-05	10446	-0.10	2.41E-04	13584	-0.10	2.93E-04
8192	0.10	5.98E-03	10447	0.20	1.40E-14	13594	0.10	9.35E-04
8194	-0.10	3.75E-03	10448	-0.10	6.26E-03	13600	0.10	1.51E-03
8198	-0.10	8.05E-03	10462	0.10	7.91E-03	13608	0.10	2.29E-07
8203	0.10	6.88E-03	10467	0.00	4.87E-03	13609	-0.10	8.64E-03

8220	-0.10	1.04E-03	10480	0.10	6.11E-03	13635	-0.10	5.01E-03
8228	-0.10	3.78E-03	10485	0.10	2.14E-09	13663	-0.10	1.59E-04
8230	-0.10	5.46E-04	10486	0.10	1.26E-03	13667	0.10	2.25E-04
8233	-0.10	5.78E-06	10488	0.10	5.78E-03	13684	0.10	7.17E-03
8246	-0.10	4.06E-03	10491	0.20	1.13E-06	13712	0.10	5.50E-03
8258	0.10	1.93E-03	10503	-0.10	2.13E-03	13713	-0.10	5.41E-04
8267	-0.10	8.46E-04	10516	0.10	9.69E-03	13716	-0.10	1.13E-03
8273	0.10	4.55E-05	10528	-0.10	5.40E-05	13717	-0.10	1.15E-03
8274	0.10	3.13E-03	10539	0.10	4.91E-03	13725	-0.10	9.08E-03
8280	-0.10	2.44E-03	10545	-0.10	3.71E-03	13729	0.10	5.44E-04
8285	-0.10	1.89E-04	10549	-0.10	7.22E-03	13738	-0.20	1.96E-08
8295	0.10	8.78E-05	10555	0.20	9.86E-08	13747	0.00	8.11E-03
8301	-0.10	4.66E-04	10561	-0.10	8.13E-03	13761	-0.10	3.64E-03
8304	-0.10	1.27E-03	10576	-0.10	4.32E-07	13764	-0.10	1.09E-05
8315	-0.10	3.53E-05	10578	0.10	8.63E-03	13775	0.10	6.29E-03
8318	-0.10	1.13E-04	10590	-0.10	1.30E-04	13798	-0.10	1.60E-05
8322	-0.10	2.95E-03	10593	0.10	1.23E-03	13819	0.10	2.56E-03
8324	0.10	6.02E-07	10600	-0.10	2.06E-06	13827	0.10	1.81E-04
8327	-0.10	3.50E-03	10605	-0.10	1.41E-05	13834	0.10	6.91E-05
8333	0.10	3.70E-03	10618	-0.10	2.49E-08	13837	-0.10	1.03E-03
8343	0.10	5.90E-03	10624	-0.10	8.12E-06	13845	0.10	6.51E-10
8347	0.10	9.19E-03	10631	0.10	5.63E-03	13846	0.10	6.63E-04
8348	0.10	5.05E-06	10637	0.10	8.18E-03	13857	0.10	4.49E-03
8353	-0.10	4.29E-07	10639	0.00	3.86E-03	13869	-0.20	4.83E-16
8367	0.00	1.61E-03	10644	-0.10	7.28E-03	13882	0.10	4.39E-05
8384	-0.10	5.52E-04	10664	0.10	7.82E-03	13891	-0.10	5.83E-03
8386	0.10	1.31E-03	10667	-0.10	2.73E-05	13901	0.10	1.22E-03
8413	-0.10	5.09E-03	10706	-0.10	1.73E-03	13903	0.10	7.17E-03
8421	-0.10	4.47E-06	10711	-0.10	2.80E-03	13905	0.10	1.41E-05
8423	-0.10	1.95E-03	10729	0.10	5.64E-06	13917	-0.10	1.36E-04
8431	0.10	1.96E-08	10730	-0.10	5.90E-03	13935	-0.10	5.49E-03
8438	-0.10	1.61E-03	10733	0.10	1.26E-03	13937	0.10	1.99E-03
8441	-0.10	1.37E-03	10741	0.10	1.19E-04	13951	0.10	8.13E-08
8448	-0.10	3.43E-05	10787	-0.10	9.14E-03	13977	-0.10	4.87E-04
8451	-0.10	5.29E-06	10801	-0.10	9.37E-11	13979	0.10	7.10E-03
8460	-0.10	3.90E-04	10807	-0.10	5.92E-04	13982	0.10	2.39E-05
8467	0.10	1.79E-03	10813	0.10	2.99E-04	13984	-0.10	1.73E-03

8470	-0.10	5.42E-03	10818	-0.10	1.06E-04	14008	0.10	1.64E-03
8480	0.10	1.17E-03	10842	-0.10	7.02E-03	14009	0.10	2.59E-03
8501	0.10	1.62E-05	10859	0.10	6.73E-03	14015	0.10	4.75E-03
8504	-0.10	5.91E-04	10864	-0.10	2.85E-06	14030	0.10	2.68E-04
8521	0.10	3.19E-05	10875	-0.10	6.51E-06	14089	0.10	7.62E-03
8541	0.10	2.67E-04	10877	-0.10	1.06E-04	14104	0.10	6.64E-03
8545	-0.10	2.34E-06	10883	-0.10	2.61E-04	14106	0.10	2.47E-05
8546	-0.10	7.65E-03	10902	0.10	1.62E-10	14125	0.10	4.07E-04
8550	0.10	4.97E-04	10911	-0.10	5.70E-03	14128	0.10	6.96E-03
8561	-0.10	5.58E-03	10924	0.10	4.12E-03	14130	0.10	3.01E-04
8576	-0.10	7.72E-04	10926	-0.10	3.20E-03	14135	0.10	3.62E-04
8577	0.10	6.68E-05	10943	0.10	1.05E-03	14166	-0.10	2.58E-05
8579	-0.10	7.52E-07	10947	0.10	2.02E-03	14170	0.10	8.59E-08
8582	-0.10	3.84E-03	10948	0.10	2.86E-03	14186	-0.10	1.88E-04
8596	-0.10	1.01E-04	10951	0.10	1.79E-04	14189	0.10	5.16E-04
8599	-0.10	1.50E-03	10958	0.10	8.70E-03	14198	-0.10	1.93E-04
8607	0.10	1.08E-03	10965	0.10	3.47E-03	14219	-0.10	7.28E-06
8611	0.10	5.02E-03	10991	-0.10	1.43E-03	14265	-0.10	4.65E-04
8624	0.10	6.83E-06	10994	0.10	2.56E-03	14276	-0.10	6.06E-04
8641	-0.10	2.96E-06	11007	-0.10	2.17E-05	14295	0.10	3.33E-03
8645	0.10	1.18E-05	11012	-0.10	1.30E-08	14296	-0.10	5.55E-04
8646	0.10	5.00E-05	11032	-0.10	1.41E-03	14297	0.10	6.89E-03
8679	0.10	9.81E-08	11037	0.10	1.60E-03	14298	0.10	6.28E-08
8680	-0.10	6.94E-03	11038	-0.10	2.01E-04	14299	-0.10	2.34E-05
8689	0.10	1.45E-03	11058	-0.10	3.79E-03	14300	0.10	9.22E-03
8698	-0.10	1.44E-05	11065	0.00	8.89E-03	14301	0.10	4.19E-04
8699	0.10	5.38E-04	11092	0.10	4.35E-06	14304	-0.10	8.32E-04
8704	-0.10	1.94E-04	11103	-0.10	2.28E-08	14305	0.20	2.65E-04
8715	-0.10	5.99E-09	11108	0.00	7.23E-03	14306	0.10	3.28E-04
8722	-0.10	1.46E-04	11110	-0.10	7.07E-03	14309	-0.10	4.31E-03
8725	-0.10	2.85E-05	11112	0.10	6.67E-05	14316	-0.10	9.08E-05
8731	0.10	1.59E-05	11114	-0.10	6.92E-05	14319	0.10	3.22E-06
8744	-0.10	6.10E-03	11120	0.10	8.36E-03	14342	-0.10	1.47E-04
8751	0.00	8.66E-03	11134	-0.10	9.84E-05	14355	0.10	8.56E-04
8761	0.10	6.22E-03	11136	-0.10	2.24E-08	14359	0.10	8.98E-03
8763	-0.10	2.69E-03	11147	-0.20	1.88E-08	14367	0.10	4.52E-03
8766	0.00	9.43E-03	11154	-0.10	1.27E-04	14377	0.10	2.67E-03

8773	-0.10	2.56E-14	11159	0.10	5.41E-03	14381	-0.10	7.57E-03
8776	0.10	5.34E-06	11182	0.10	8.17E-03	14415	-0.10	2.23E-13
8795	-0.10	1.58E-04	11184	-0.10	3.20E-03	14419	0.20	1.36E-03
8796	0.10	7.44E-03	11186	-0.10	8.82E-03	14450	0.10	2.94E-03
8797	0.00	6.50E-03	11187	-0.10	2.20E-08	14454	0.10	5.23E-04
8799	-0.10	8.49E-07	11189	-0.10	6.66E-04	14460	0.10	1.23E-03
8804	0.00	8.87E-03	11204	-0.10	8.68E-03	14463	0.10	7.65E-03
8814	0.10	4.50E-04	11212	0.10	6.29E-06	14487	0.10	8.29E-05
8822	-0.10	5.48E-03	11213	0.10	4.28E-04	14491	0.10	2.85E-03
8825	-0.10	4.28E-10	11217	0.10	4.97E-04	14492	-0.10	2.17E-04
8863	0.10	2.36E-03	11223	-0.10	9.02E-05	14509	-0.10	7.42E-03
8867	0.10	1.97E-05	11229	-0.10	8.05E-03	14524	-0.10	6.77E-03
8876	-0.10	3.74E-04	11235	-0.10	5.55E-04	14542	-0.10	9.30E-05
8893	0.10	1.96E-03	11249	0.10	1.03E-03	14549	0.10	3.78E-03
8908	0.10	9.43E-04	11272	0.10	6.72E-08	14555	0.10	1.34E-05
8911	0.10	1.20E-03	11312	0.10	1.27E-04	14560	-0.10	3.71E-03
8922	-0.10	2.82E-04	11330	0.10	6.34E-04	14568	-0.10	1.85E-03
8933	0.10	1.57E-03	11343	0.10	2.70E-03	14572	0.10	5.29E-03
8957	0.10	4.37E-03	11348	-0.10	8.37E-06	14575	-0.10	7.56E-04
8958	0.10	9.09E-03	11350	-0.10	1.61E-04	14582	0.10	1.58E-05
8963	-0.10	2.44E-03	11363	0.10	4.34E-04	14626	-0.20	1.16E-18
8966	0.10	5.15E-04	11382	-0.10	7.23E-05	14635	0.10	2.43E-03
8978	0.20	2.35E-03	11384	-0.10	2.41E-04	14649	0.10	3.00E-09
8981	-0.10	2.55E-03	11389	-0.10	5.52E-04	14654	0.10	6.90E-03
8987	0.10	4.58E-04	11396	0.10	2.64E-06	14658	0.10	2.79E-03
8988	-0.10	1.54E-03	11403	0.10	5.74E-05	14668	-0.10	3.16E-04
8994	-0.10	6.76E-05	11417	0.10	2.70E-03	14669	-0.10	7.46E-11
8995	-0.10	2.85E-05	11430	-0.10	2.13E-03	14672	-0.10	2.02E-05
9000	-0.10	1.55E-04	11437	-0.10	3.48E-03	14679	-0.10	3.05E-04
9013	0.10	9.44E-04	11467	0.10	7.20E-04	14680	0.10	3.13E-06
9023	-0.10	1.56E-03	11469	0.10	7.42E-05	14688	0.10	6.23E-06
9034	0.10	2.99E-05	11471	0.10	1.43E-05	14700	-0.10	2.85E-07
9037	-0.10	2.31E-06	11485	-0.10	2.97E-03	14704	0.10	4.00E-05
9049	-0.20	1.92E-06	11486	0.10	1.90E-03	14712	0.10	9.00E-03
9064	-0.10	7.37E-03	11489	-0.10	1.02E-03	14717	0.10	1.72E-03
9065	0.10	4.81E-08	11492	0.00	7.11E-03	14734	-0.10	3.47E-03
9068	0.10	4.54E-05	11502	0.10	8.13E-04	14756	-0.10	1.38E-06
9074	-0.10	6.43E-04	11503	0.10	8.42E-04	14778	0.10	4.53E-12

9081	0.10	5.74E-05	11515	0.10	1.17E-04	14800	0.10	3.99E-06
9089	-0.10	4.82E-03	11536	-0.10	6.94E-03	14811	-0.10	5.93E-04
9122	-0.10	7.76E-03	11548	0.10	5.91E-08	14831	0.10	2.30E-03
9125	-0.10	6.52E-04	11569	0.10	2.02E-05	14851	0.10	6.50E-04
9151	0.10	2.38E-06	11577	-0.10	3.72E-07	14904	0.10	5.84E-06
9173	0.10	3.96E-03	11588	0.10	5.35E-03	14915	-0.10	6.73E-05
9178	-0.10	4.93E-04	11593	-0.10	6.25E-03	14924	0.10	3.76E-03
9179	-0.10	4.90E-04	11605	-0.10	4.18E-04	14925	-0.10	4.04E-03
9184	-0.10	2.20E-03	11621	0.20	2.16E-15	14957	-0.10	1.48E-07
9190	-0.10	1.72E-04	11631	0.10	1.53E-03	14972	-0.10	5.29E-04
9192	-0.10	1.58E-10	11641	-0.10	1.08E-03	14973	0.10	4.33E-03
9194	-0.10	3.82E-03	11647	-0.10	3.11E-03	14980	-0.10	6.07E-03
9204	0.10	2.39E-04	11655	0.10	1.86E-05	15042	-0.10	1.81E-03
9209	0.10	1.83E-05	11662	0.10	1.50E-03	15043	-0.10	3.41E-07
9210	0.10	1.19E-07	11677	-0.10	4.74E-05	15045	-0.10	1.36E-03
9219	-0.10	4.92E-04	11682	-0.10	6.74E-04	15088	-0.10	7.23E-03
9221	0.10	6.38E-03	11701	-0.10	2.13E-03	15110	-0.10	3.01E-04
9226	0.10	7.68E-03	11712	0.10	8.14E-04	15121	0.10	5.35E-03
9229	0.10	3.60E-05	11724	-0.10	3.51E-10	15148	-0.10	2.64E-03
9241	-0.10	2.48E-04	11726	0.10	5.84E-08	15162	0.10	8.67E-07

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TABLE 25 - GENETIC MARKERS FOR FORE ATTACHMENT

A	B	C	A	B	C	A	B	C
3	0.10	5.69E-03	2393	-0.10	7.95E-06	4584	0.10	1.28E-03
26	0.10	2.46E-03	2394	-0.10	2.85E-04	4589	0.10	7.62E-04
35	-0.10	4.39E-03	2400	0.10	4.51E-03	4599	-0.10	8.96E-05
36	-0.10	7.33E-05	2404	-0.10	1.61E-04	4602	0.20	6.85E-11
39	-0.30	1.03E-07	2405	0.10	6.55E-03	4608	-0.10	1.92E-07
46	-0.20	2.61E-10	2413	0.10	2.62E-03	4611	0.10	1.66E-04
51	0.10	6.17E-03	2414	0.10	1.55E-03	4612	-0.10	6.85E-03
52	-0.10	6.70E-04	2418	-0.10	8.97E-04	4613	-0.10	2.35E-05
57	0.10	4.53E-07	2421	-0.10	3.27E-05	4615	-0.10	6.91E-04
59	-0.20	9.59E-04	2424	-0.10	4.67E-03	4634	-0.10	2.46E-05
61	-0.10	2.60E-04	2437	-0.10	1.97E-05	4647	0.10	1.51E-03
62	-0.10	5.11E-03	2453	-0.10	3.62E-04	4651	0.10	3.40E-03
67	0.10	6.02E-04	2463	0.10	3.95E-03	4654	-0.10	5.28E-06
71	-0.10	1.03E-05	2465	-0.20	3.36E-13	4662	-0.10	9.55E-03
83	0.10	7.68E-03	2466	-0.20	5.18E-15	4679	-0.10	3.10E-05
99	0.10	6.81E-11	2470	-0.10	8.08E-05	4690	-0.10	5.72E-06
101	-0.10	6.10E-06	2471	0.10	1.28E-06	4691	-0.10	1.82E-03
122	-0.10	6.01E-04	2472	-0.10	3.51E-04	4696	-0.10	2.59E-06
131	0.20	1.14E-10	2484	0.10	5.12E-03	4705	-0.10	5.06E-03
132	0.10	6.60E-03	2485	0.10	3.79E-03	4706	-0.10	3.77E-03
150	-0.10	1.11E-03	2486	0.10	2.23E-03	4708	-0.20	5.33E-06
152	0.10	3.64E-03	2491	0.10	3.65E-10	4710	0.10	3.72E-03
156	0.10	1.95E-04	2494	0.10	3.61E-03	4723	-0.10	3.40E-04
168	0.10	9.79E-04	2499	0.10	1.24E-03	4728	0.10	7.58E-03
171	0.10	8.36E-07	2501	0.00	3.49E-03	4731	-0.10	3.68E-03
177	0.10	1.67E-03	2505	0.10	3.74E-04	4732	0.10	9.45E-03
181	0.10	2.22E-09	2514	-0.10	6.63E-04	4746	0.10	1.45E-03
186	0.10	2.39E-03	2524	-0.10	2.26E-03	4756	0.10	8.25E-03
191	-0.10	8.24E-05	2525	-0.10	2.24E-03	4758	-0.10	8.59E-03
193	-0.10	9.28E-04	2535	0.10	3.84E-04	4760	-0.10	3.99E-04
203	-0.10	7.36E-04	2542	0.20	2.61E-04	4761	-0.10	3.73E-04
209	0.10	1.93E-03	2543	0.10	3.31E-03	4762	0.10	1.88E-03
217	0.10	8.70E-04	2547	-0.10	2.46E-09	4770	-0.10	2.32E-06
219	0.10	6.50E-04	2577	-0.10	9.74E-03	4774	0.10	2.61E-05
222	-0.10	6.76E-04	2583	0.10	2.73E-07	4781	0.10	3.26E-04

231	-0.20	2.40E-07	2595	0.10	6.52E-08	4788	0.10	1.42E-03
246	-0.10	3.77E-03	2597	0.10	6.88E-03	4789	-0.10	2.85E-04
249	-0.10	3.89E-03	2619	0.10	1.69E-03	4795	0.10	3.10E-03
250	-0.10	4.18E-07	2620	0.10	1.65E-05	4797	0.10	4.84E-04
257	0.10	1.29E-03	2624	0.10	5.22E-03	4800	-0.10	3.29E-03
265	-0.10	7.84E-05	2633	-0.20	4.74E-08	4808	-0.10	6.55E-04
272	-0.10	2.86E-04	2640	0.20	4.07E-04	4813	-0.10	8.37E-03
274	0.10	5.32E-03	2646	0.10	7.90E-03	4821	-0.10	1.40E-03
276	-0.20	7.48E-04	2647	0.10	1.81E-07	4827	0.10	1.47E-04
282	0.10	2.30E-07	2649	-0.10	3.34E-03	4834	-0.20	5.37E-05
297	-0.10	6.56E-03	2651	0.10	2.49E-06	4849	-0.10	3.33E-06
307	0.10	1.99E-05	2655	0.10	7.60E-05	4857	-0.10	1.62E-07
309	0.10	1.41E-03	2668	-0.10	4.43E-04	4885	0.10	2.44E-04
312	-0.10	3.33E-03	2688	-0.10	1.31E-04	4901	0.10	6.15E-03
321	0.10	2.59E-03	2693	0.10	1.15E-03	4911	0.10	1.83E-07
323	-0.10	1.01E-03	2696	0.10	1.83E-05	4934	0.10	6.35E-03
330	-0.10	6.01E-05	2705	-0.10	1.16E-03	4938	0.10	4.97E-06
333	0.20	1.31E-10	2712	-0.10	8.14E-04	4946	-0.10	2.05E-04
335	-0.10	1.56E-04	2722	-0.10	2.03E-03	4970	-0.10	1.48E-03
343	-0.20	6.75E-05	2727	0.10	8.08E-08	4996	-0.10	1.19E-04
345	-0.10	5.67E-03	2742	-0.10	4.80E-03	5003	-0.20	7.15E-07
348	-0.10	5.10E-03	2743	0.10	1.98E-04	5010	-0.10	1.42E-05
359	0.10	3.89E-04	2752	-0.20	8.67E-06	5016	-0.10	9.96E-04
361	-0.20	1.34E-03	2754	0.10	1.44E-08	5025	0.10	5.44E-03
367	-0.10	8.62E-05	2756	-0.10	6.61E-07	5028	-0.10	5.92E-03
373	0.20	8.07E-04	2758	0.10	2.01E-05	5036	0.10	4.19E-03
391								
376	-0.20	3.63E-05	2772	-0.10	5.58E-03	5046	-0.10	3.03E-04
382	0.10	2.47E-03	2773	-0.20	2.23E-05	5057	-0.10	2.18E-05
391	-0.10	3.34E-03	2774	0.10	2.66E-03	5061	-0.20	4.68E-08
393	0.20	6.08E-11	2781	0.20	8.81E-11	5063	-0.10	2.79E-04
394	-0.10	3.81E-08	2782	0.10	1.88E-05	5066	-0.10	2.78E-04
397	0.10	7.69E-07	2787	0.10	2.08E-03	5069	0.20	1.97E-09
406	0.10	1.21E-03	2789	0.10	2.82E-03	5070	0.10	2.77E-04
408	-0.10	5.21E-04	2790	0.10	2.46E-04	5075	0.10	2.74E-06
410	-0.10	2.38E-07	2801	0.10	4.26E-03	5078	-0.10	6.19E-03
411	-0.10	1.27E-07	2816	-0.10	7.46E-03	5079	0.10	4.65E-08
429	0.10	1.92E-03	2836	0.10	1.32E-06	5083	0.10	2.68E-04

435	-0.10	1.05E-03	2838	-0.10	4.57E-03	5086	0.10	3.50E-06
450	0.10	3.97E-04	2843	0.10	1.86E-03	5088	0.00	7.78E-03
476	0.10	3.78E-03	2848	-0.10	1.08E-08	5093	-0.10	1.57E-09
479	-0.20	2.31E-04	2858	-0.10	8.57E-03	5094	0.20	3.99E-06
497	-0.10	8.42E-03	2870	0.10	5.06E-03	5115	-0.10	6.65E-04
499	0.10	1.11E-04	2871	0.20	1.56E-03	5118	0.10	1.82E-03
505	0.10	9.33E-04	2873	0.10	1.65E-03	5125	0.10	5.06E-04
508	0.10	8.84E-04	2874	-0.10	1.41E-04	5132	0.10	1.23E-03
511	-0.10	6.51E-03	2887	-0.20	9.10E-04	5134	-0.10	4.75E-10
536	-0.10	8.14E-04	2889	0.10	2.12E-04	5140	0.10	4.55E-03
537	0.10	4.14E-06	2890	0.10	1.08E-05	5141	0.10	5.75E-03
540	-0.10	9.42E-03	2896	-0.10	1.05E-05	5145	-0.10	6.51E-03
553	-0.10	9.65E-03	2901	-0.20	8.48E-09	5169	0.10	7.89E-03
558	0.10	7.09E-03	2907	-0.10	8.51E-05	5198	-0.10	9.14E-03
578	0.10	6.24E-04	2914	0.10	1.28E-03	5204	-0.10	1.83E-05
591	0.10	3.03E-03	2924	0.10	5.54E-04	5219	0.10	9.06E-06
598	-0.10	7.45E-03	2927	0.10	2.00E-05	5235	-0.10	3.08E-05
629	0.10	4.35E-05	2944	-0.10	2.24E-03	5239	-0.10	2.07E-04
648	0.10	1.94E-03	2955	-0.20	1.71E-05	5247	0.10	2.55E-03
653	0.10	3.81E-03	2959	-0.10	5.18E-07	5249	-0.10	1.00E-03
654	0.10	8.29E-03	2962	0.10	7.75E-05	5253	0.10	2.12E-03
657	-0.10	5.99E-08	2965	0.10	9.57E-06	5274	-0.10	8.39E-03
663	-0.20	2.15E-07	2970	0.10	6.47E-04	5275	-0.20	9.84E-15
664	-0.20	4.23E-12	2971	-0.10	5.27E-03	5279	0.10	2.27E-04
665	-0.10	4.02E-04	2974	-0.10	7.13E-04	5285	-0.10	3.08E-08
668	-0.10	3.58E-06	2995	0.10	1.57E-07	5302	-0.10	1.80E-05
672	0.10	2.20E-05	2997	0.10	4.32E-03	5303	-0.10	8.63E-03
674	0.20	6.57E-07	2998	-0.10	7.69E-03	5315	-0.10	9.19E-07
683	0.10	3.16E-04	3008	0.10	4.13E-04	5317	0.20	1.18E-10
703	0.10	3.86E-03	3010	-0.10	7.79E-03	5320	-0.10	4.05E-04
707	0.10	4.87E-04	3031	0.10	4.92E-04	5322	0.20	1.59E-03
711	-0.10	5.13E-03	3033	-0.10	5.80E-03	5326	-0.10	3.93E-05
718	-0.10	4.98E-03	3048	0.10	4.09E-03	5328	-0.10	6.41E-05
723	-0.10	6.59E-06	3050	-0.10	1.23E-06	5330	0.10	2.12E-04
724	-0.10	4.36E-03	3063	0.10	8.79E-03	5331	-0.10	8.31E-04
726	-0.10	1.19E-03	3064	0.20	9.44E-03	5343	0.10	6.39E-06
736	0.10	3.51E-06	3066	0.10	6.50E-04	5344	0.10	8.51E-11
753	-0.10	3.18E-03	3079	-0.10	2.33E-06	5345	0.10	8.12E-10

754	0.10	2.06E-03	3089	-0.10	9.56E-05	5353	0.10	1.90E-04
761	0.20	4.78E-06	3092	0.20	3.30E-03	5356	-0.10	1.51E-04
762	0.10	7.04E-03	3107	-0.10	1.01E-03	5365	-0.10	4.10E-03
774	-0.10	5.23E-03	3114	0.10	2.88E-03	5377	0.10	2.12E-03
776	0.10	4.50E-08	3115	-0.10	6.47E-04	5381	0.10	1.06E-06
778	0.20	1.22E-05	3117	0.20	3.26E-05	5391	-0.10	1.41E-06
779	-0.20	2.82E-08	3122	0.20	1.79E-11	5402	-0.10	5.44E-06
782	-0.10	2.25E-04	3124	-0.10	1.11E-04	5414	-0.10	1.21E-07
788	-0.20	4.18E-04	3129	0.10	1.14E-07	5417	0.10	3.45E-04
790	0.10	1.30E-04	3143	-0.10	6.72E-04	5418	0.10	1.05E-03
793	0.10	1.67E-04	3144	-0.10	4.07E-03	5429	0.10	2.54E-03
801	-0.10	2.15E-03	3145	-0.10	4.61E-03	5431	-0.20	8.24E-03
808	-0.10	4.24E-05	3165	-0.10	5.92E-04	5432	0.10	3.30E-03
829	0.10	4.55E-03	3166	-0.10	1.95E-03	5435	0.10	8.41E-06
392								
839	0.10	7.83E-03	3168	0.10	4.40E-04	5437	0.10	2.72E-03
840	-0.20	7.33E-07	3175	0.10	1.50E-03	5438	0.10	1.80E-03
850	-0.10	1.36E-08	3177	-0.10	1.87E-03	5440	-0.10	1.84E-03
854	-0.10	4.08E-03	3180	-0.10	1.11E-03	5446	0.10	9.55E-03
855	0.10	1.82E-03	3183	-0.10	1.21E-03	5461	-0.10	1.95E-04
870	0.10	6.57E-05	3184	0.10	1.78E-05	5462	0.10	3.63E-03
871	-0.10	1.36E-03	3188	-0.10	1.96E-03	5466	-0.10	2.89E-08
873	-0.10	8.72E-05	3189	-0.10	3.98E-05	5470	-0.10	3.01E-04
875	-0.20	3.62E-08	3190	0.10	1.82E-05	5475	0.20	3.86E-04
889	0.10	3.14E-03	3191	-0.10	4.84E-06	5480	0.10	5.64E-05
890	0.10	4.99E-03	3192	-0.10	5.71E-06	5491	0.10	1.38E-05
896	0.10	5.22E-03	3196	-0.10	1.82E-03	5522	-0.10	2.10E-08
912	0.10	4.94E-03	3200	0.10	4.44E-03	5527	0.10	6.32E-03
922	0.10	8.45E-03	3217	-0.10	1.38E-04	5536	-0.20	9.33E-11
923	0.10	9.59E-03	3234	0.10	4.30E-03	5546	-0.10	7.23E-03
928	0.10	8.25E-06	3241	-0.10	3.53E-03	5548	0.10	5.29E-05
936	-0.10	2.67E-04	3245	0.10	3.71E-05	5570	0.10	1.02E-07
939	0.10	1.30E-03	3260	0.10	2.52E-03	5571	0.10	4.17E-03
942	-0.10	6.68E-04	3272	0.10	4.18E-03	5574	-0.10	4.33E-03
945	0.10	4.08E-06	3286	0.10	2.15E-05	5585	0.10	3.27E-03
948	-0.10	7.80E-05	3308	-0.10	7.20E-03	5590	0.10	9.34E-09
950	0.00	6.50E-03	3312	-0.10	1.96E-06	5592	0.10	2.25E-05
960	-0.10	9.14E-05	3313	-0.10	6.34E-06	5594	-0.10	1.80E-09

963	-0.20	9.17E-07
984	0.10	8.57E-04
992	-0.10	5.01E-03
996	0.10	9.32E-03
998	0.10	3.57E-03
1004	-0.10	7.25E-03
1012	0.10	4.45E-03
1016	-0.10	5.28E-04
1029	-0.10	1.91E-05
1031	-0.20	5.20E-05
1054	-0.10	3.47E-03
1063	0.10	3.30E-05
1078	-0.20	2.32E-05
1080	0.10	5.74E-03
1085	0.10	3.13E-03
1090	-0.20	9.33E-03
1091	-0.20	4.41E-03
1094	0.10	1.64E-03
1097	-0.10	1.76E-03
1114	-0.10	6.00E-03
1115	-0.10	7.59E-03
1142	-0.10	2.83E-06
1145	-0.10	4.53E-03
1178	0.00	9.24E-03
1185	0.10	3.57E-07
1187	0.10	1.84E-05
1188	0.10	2.75E-05
1203	0.00	6.40E-03
1213	0.10	5.95E-04
1217	0.20	1.49E-05
1229	-0.10	2.32E-05
1237	-0.10	2.01E-06
1238	0.10	6.84E-03
1244	0.10	3.35E-03
1245	0.10	1.41E-03
1254	-0.20	4.90E-07
1263	-0.10	8.21E-04
1266	-0.10	1.37E-04
3317	0.10	4.41E-05
3321	0.10	1.19E-09
3333	0.10	6.41E-03
3340	0.10	4.84E-04
3343	-0.10	4.04E-03
3344	-0.10	1.12E-04
3353	0.10	8.23E-06
3355	0.10	6.31E-03
3359	-0.10	1.19E-03
3371	0.10	3.25E-03
3372	-0.10	3.09E-04
3391	0.10	2.73E-07
3406	-0.10	1.25E-03
3407	0.10	1.96E-04
3409	0.10	7.07E-03
3412	0.10	3.32E-06
3413	0.10	3.18E-06
3417	0.10	5.51E-03
3418	0.10	4.33E-05
3428	-0.10	7.42E-03
3435	-0.20	2.77E-04
3438	-0.10	2.66E-07
3439	-0.20	4.82E-07
3463	-0.10	4.96E-03
3465	0.10	8.54E-03
3466	0.10	9.25E-04
3467	0.10	1.46E-04
3468	0.10	5.08E-04
3479	-0.10	7.21E-03
3484	-0.10	2.03E-04
3485	-0.10	1.38E-05
3489	0.10	5.65E-03
3500	-0.10	6.19E-03
3503	-0.10	3.90E-03
3507	0.10	6.38E-03
3511	0.10	2.25E-05
3514	-0.10	8.25E-04
3529	0.10	5.10E-06
5596	-0.10	2.49E-04
5597	-0.10	1.82E-04
5605	-0.10	1.38E-03
5608	-0.10	1.61E-08
5614	-0.10	2.93E-04
5619	0.10	2.05E-03
5625	-0.20	9.80E-07
5627	0.10	1.21E-04
5630	0.10	7.24E-03
5646	-0.10	1.51E-03
5654	-0.10	1.48E-04
5668	-0.10	9.08E-05
5670	0.10	6.51E-06
5674	-0.20	3.75E-11
5681	-0.20	2.83E-03
5682	0.10	1.45E-06
5688	-0.10	1.91E-04
5690	0.10	6.71E-03
5704	0.10	3.68E-03
5705	0.10	6.19E-03
5711	-0.10	2.70E-03
5723	-0.10	1.00E-03
5731	0.10	3.93E-04
5737	-0.10	3.52E-04
5739	0.10	3.68E-03
5752	0.10	8.99E-03
5753	-0.10	9.65E-03
5754	0.10	5.78E-05
5756	0.10	2.74E-03
5760	0.10	8.22E-03
5775	0.10	1.43E-04
5800	-0.10	8.18E-04
5806	-0.10	1.22E-03
5808	0.20	7.62E-05
5809	-0.20	5.60E-04
5825	-0.10	1.41E-04
5828	-0.10	6.52E-03
5835	0.20	1.12E-06

1273	0.10	1.38E-04	3548	-0.10	8.10E-03	5856	0.10	5.38E-05
1275	-0.10	5.74E-03	3558	-0.20	2.50E-14	5868	0.10	2.14E-06
393								
1278	-0.10	1.58E-04	3559	-0.20	2.66E-04	5873	-0.10	1.98E-03
1283	0.10	6.09E-05	3560	0.10	1.42E-04	5875	-0.10	5.48E-04
1299	-0.10	1.17E-03	3568	0.10	1.92E-04	5879	0.10	2.15E-06
1301	0.10	3.26E-03	3569	0.10	1.43E-03	5887	-0.10	9.87E-04
1305	0.20	4.40E-13	3582	-0.10	1.88E-05	5890	0.10	3.93E-03
1309	0.10	2.41E-03	3586	0.10	3.67E-03	5897	-0.10	4.54E-04
1319	0.10	3.72E-04	3588	-0.10	6.61E-03	5901	-0.10	1.24E-03
1332	0.10	9.67E-05	3594	0.10	1.01E-03	5914	0.10	7.14E-08
1364	0.10	9.44E-05	3599	0.20	2.95E-07	5921	-0.20	1.95E-06
1367	0.10	1.12E-03	3608	-0.20	4.62E-07	5922	-0.20	3.58E-06
1370	-0.20	6.12E-06	3609	-0.10	2.06E-03	5927	-0.10	5.91E-03
1373	0.10	7.73E-03	3613	0.10	7.72E-04	5930	-0.10	9.18E-06
1378	-0.10	4.78E-03	3614	-0.10	9.46E-06	5933	-0.10	6.34E-04
1380	-0.20	5.02E-05	3618	0.10	2.81E-03	5948	0.10	1.33E-03
1384	-0.10	1.16E-03	3621	-0.10	7.78E-03	5951	0.10	2.07E-03
1385	-0.10	1.59E-03	3625	0.10	5.49E-04	5955	0.10	6.37E-04
1389	0.10	6.17E-03	3626	0.10	2.63E-04	5956	-0.20	1.91E-03
1391	0.10	7.58E-03	3628	-0.10	4.98E-03	5958	0.10	9.18E-04
1392	-0.10	2.80E-03	3631	-0.10	4.30E-03	5969	-0.10	1.32E-03
1393	-0.10	1.88E-07	3636	-0.10	5.02E-05	5973	0.10	1.38E-03
1395	0.10	3.25E-03	3642	0.10	3.40E-03	5978	-0.10	9.18E-03
1396	-0.10	3.98E-06	3647	-0.10	1.55E-03	5985	0.10	5.72E-03
1401	-0.10	9.64E-08	3649	0.10	6.12E-04	6002	0.00	3.47E-03
1408	-0.10	5.21E-03	3655	-0.10	5.17E-06	6005	-0.10	4.14E-07
1410	-0.20	6.71E-15	3656	-0.10	2.63E-03	6006	-0.10	5.19E-04
1411	0.20	5.26E-07	3658	0.10	7.76E-05	6013	-0.20	2.17E-04
1412	0.10	4.42E-03	3666	-0.10	5.81E-03	6016	-0.10	4.46E-03
1415	0.10	1.93E-04	3667	0.10	1.19E-04	6024	0.10	1.64E-06
1419	-0.10	9.56E-04	3671	-0.10	9.61E-03	6031	0.10	6.82E-04
1420	-0.10	1.14E-03	3673	0.20	2.15E-03	6033	-0.20	4.56E-08
1436	-0.10	8.53E-05	3683	-0.10	5.68E-06	6035	0.10	1.15E-05
1443	0.10	3.42E-04	3700	0.10	1.07E-05	6052	-0.10	1.85E-04
1444	0.10	3.12E-04	3706	-0.10	3.00E-05	6056	-0.10	7.41E-03
1448	-0.10	8.60E-04	3711	0.10	7.60E-08	6058	-0.10	3.88E-03
1451	0.10	6.96E-03	3722	0.10	5.04E-04	6066	0.10	2.54E-04

1456	-0.10	4.72E-03	3726	-0.10	1.29E-03	6068	0.10	9.66E-04
1464	0.20	2.47E-11	3728	0.10	4.76E-05	6071	0.10	2.59E-03
1466	-0.10	6.23E-05	3734	0.10	1.88E-09	6077	0.10	8.97E-04
1467	0.10	2.80E-06	3759	-0.10	1.17E-04	6078	0.10	8.45E-04
1478	0.10	4.20E-03	3762	-0.20	1.32E-05	6086	-0.10	6.35E-03
1491	0.10	1.49E-03	3765	-0.10	2.93E-03	6094	0.10	7.50E-03
1494	0.10	6.23E-03	3770	0.10	2.42E-06	6104	-0.10	4.36E-04
1495	0.10	5.16E-03	3785	-0.10	5.71E-03	6105	0.10	1.40E-03
1498	-0.10	4.61E-04	3786	-0.10	6.51E-03	6110	-0.10	8.12E-03
1526	-0.10	3.42E-06	3788	-0.10	5.94E-04	6127	-0.20	3.44E-08
1530	-0.10	6.59E-06	3796	-0.10	8.96E-06	6131	0.10	1.38E-05
1532	-0.10	5.91E-03	3797	-0.10	1.85E-05	6134	-0.10	3.15E-03
1533	0.10	1.13E-05	3800	0.20	1.14E-03	6136	-0.10	2.41E-03
1537	-0.10	2.78E-04	3801	0.10	2.97E-03	6137	-0.10	2.71E-03
1538	0.10	6.31E-03	3804	0.10	2.06E-05	6141	0.10	2.28E-05
1541	-0.10	1.61E-04	3810	-0.10	3.23E-04	6143	-0.20	1.23E-10
1545	0.10	5.36E-04	3812	-0.10	7.98E-03	6152	0.10	1.11E-07
1556	0.10	6.61E-03	3824	0.10	5.62E-03	6157	0.10	7.25E-03
1560	0.10	2.98E-05	3830	-0.10	2.79E-03	6161	-0.10	4.09E-05
1581	0.10	1.27E-05	3841	-0.10	9.49E-03	6167	-0.10	5.72E-03
1585	-0.10	2.10E-05	3842	-0.10	4.44E-05	6168	-0.10	6.42E-03
1591	-0.10	8.40E-04	3851	-0.10	4.64E-03	6172	0.10	5.17E-06
1599	0.20	1.01E-10	3855	-0.10	3.34E-03	6173	0.10	8.93E-03
1601	-0.10	3.60E-06	3858	0.10	8.06E-03	6177	0.10	7.22E-03
1605	0.10	5.59E-03	3859	-0.10	3.03E-04	6201	-0.10	2.16E-04
1607	-0.10	5.36E-03	3865	-0.10	2.67E-03	6203	0.10	1.60E-03
1615	-0.20	2.40E-06	3879	-0.10	1.16E-06	6219	0.10	7.97E-04
1616	0.10	7.13E-04	3884	-0.10	5.71E-07	6232	0.10	2.62E-04
394								
1620	-0.20	1.78E-10	3885	0.10	2.73E-04	6233	0.10	3.37E-03
1622	0.10	1.21E-05	3886	0.10	2.84E-05	6239	-0.10	1.34E-03
1634	0.10	6.66E-03	3890	-0.10	2.28E-03	6245	0.10	2.21E-03
1639	-0.10	5.58E-03	3902	-0.10	1.98E-03	6248	-0.20	2.91E-05
1640	-0.10	1.11E-03	3907	0.10	2.91E-03	6249	0.10	7.90E-06
1643	0.10	4.57E-03	3909	-0.10	6.37E-05	6250	-0.10	5.68E-06
1644	-0.10	1.76E-03	3910	0.10	1.84E-05	6253	-0.10	1.49E-05
1652	0.10	7.79E-04	3914	-0.10	1.96E-05	6258	-0.10	1.05E-03
1653	0.10	9.98E-05	3917	0.10	5.83E-04	6263	-0.10	3.16E-03

1659	0.20	1.45E-03	3922	-0.10	1.77E-03	6264	-0.20	1.45E-05
1665	-0.10	1.07E-03	3926	0.10	1.67E-04	6267	-0.10	3.17E-03
1668	0.10	3.67E-04	3927	-0.10	1.55E-03	6269	-0.10	8.18E-03
1677	0.10	7.76E-04	3929	0.10	2.80E-05	6280	-0.10	2.27E-03
1678	0.10	3.84E-03	3931	0.10	4.26E-03	6284	0.10	1.19E-03
1681	0.10	7.67E-06	3938	0.10	3.43E-03	6291	0.10	2.25E-04
1686	0.10	7.84E-03	3945	-0.10	1.19E-03	6294	-0.10	4.22E-04
1722	0.20	3.85E-10	3946	0.10	5.90E-09	6305	0.10	2.22E-05
1730	0.10	1.83E-05	3953	-0.10	7.16E-03	6323	0.10	9.08E-03
1737	0.10	1.40E-03	3957	-0.10	1.43E-03	6325	0.10	2.97E-03
1751	0.10	4.35E-07	3964	-0.10	9.07E-03	6330	-0.10	8.31E-03
1752	0.20	3.53E-10	3972	0.20	4.61E-08	6337	-0.10	5.18E-06
1758	0.10	4.06E-03	3978	-0.10	2.02E-04	6338	0.10	1.42E-03
1760	0.10	7.16E-03	3985	-0.20	7.83E-04	6340	-0.10	6.00E-03
1761	-0.10	6.97E-05	3996	-0.10	5.90E-03	6351	-0.10	1.38E-03
1768	-0.10	8.36E-03	4002	-0.10	1.50E-03	6356	0.10	4.00E-03
1776	-0.10	2.91E-03	4015	0.10	9.28E-04	6373	0.10	9.92E-04
1779	-0.10	3.61E-03	4022	-0.10	1.43E-03	6375	0.10	4.88E-03
1788	-0.10	2.17E-03	4025	0.10	5.12E-10	6381	0.10	3.16E-04
1789	0.10	1.12E-04	4032	0.10	3.50E-04	6385	-0.10	2.54E-04
1803	-0.10	2.16E-03	4039	0.10	4.23E-04	6391	0.10	7.77E-03
1805	-0.10	6.52E-03	4041	-0.10	6.95E-04	6396	-0.20	3.36E-09
1806	0.20	6.68E-03	4042	0.10	6.08E-03	6398	-0.10	6.08E-03
1816	0.20	1.62E-06	4043	0.10	7.01E-04	6402	-0.10	5.63E-05
1825	-0.10	1.79E-06	4045	0.10	1.41E-03	6404	0.10	1.71E-03
1829	-0.10	1.04E-04	4051	-0.10	3.61E-11	6408	0.10	1.68E-07
1849	0.10	1.55E-05	4052	-0.10	4.66E-10	6417	0.10	1.46E-03
1853	0.20	2.77E-04	4059	0.10	9.38E-04	6428	-0.10	1.86E-03
1862	-0.10	6.68E-04	4060	0.10	3.09E-05	6431	-0.20	2.23E-04
1864	-0.10	2.28E-06	4061	0.10	2.36E-05	6433	-0.10	2.84E-05
1867	-0.10	2.76E-05	4065	-0.20	1.53E-04	6436	0.10	2.08E-05
1869	0.10	6.19E-07	4070	-0.10	2.47E-05	6437	0.10	1.66E-03
1875	-0.20	1.39E-05	4075	-0.20	6.36E-13	6439	0.10	9.29E-04
1876	0.10	5.27E-05	4076	-0.20	2.44E-04	6440	0.10	2.38E-08
1884	-0.10	1.68E-04	4079	0.10	3.23E-03	6464	-0.10	5.92E-03
1889	-0.10	1.95E-07	4083	-0.10	6.03E-03	6468	-0.10	4.16E-03
1893	0.10	7.40E-03	4084	0.10	7.05E-07	6479	0.10	2.01E-03
1900	0.20	1.28E-04	4096	0.10	2.18E-04	6502	-0.10	4.18E-03

1905	-0.10	4.39E-03	4098	-0.10	7.27E-04	6505	-0.10	9.54E-04
1910	0.20	1.91E-03	4103	-0.10	7.61E-03	6515	0.20	1.01E-03
1912	0.10	6.79E-03	4117	0.10	1.10E-03	6520	0.10	7.14E-03
1924	-0.10	9.39E-03	4121	-0.20	9.72E-10	6521	-0.10	1.11E-03
1929	0.10	1.51E-06	4122	-0.10	5.35E-05	6523	-0.10	1.56E-03
1930	0.10	1.55E-06	4130	0.10	9.34E-03	6530	0.10	9.17E-03
1939	0.10	1.18E-04	4134	-0.10	1.29E-03	6531	0.10	4.59E-05
1941	0.10	1.25E-08	4155	0.10	8.54E-05	6532	-0.20	4.00E-08
1948	-0.10	1.23E-03	4156	0.10	2.47E-08	6544	0.10	3.94E-03
1952	-0.10	5.03E-03	4158	0.10	8.83E-03	6557	0.00	6.19E-03
1953	-0.10	7.83E-03	4166	-0.10	5.53E-03	6563	-0.10	1.33E-04
1964	0.10	2.88E-03	4167	0.10	2.97E-03	6564	0.10	4.01E-03
1981	0.20	1.52E-08	4169	-0.10	8.07E-04	6565	0.10	8.18E-04
1982	-0.10	8.07E-04	4170	0.20	1.10E-11	6568	-0.10	1.03E-03
1985	-0.10	2.38E-03	4176	-0.10	2.42E-03	6570	-0.10	4.33E-04
1986	-0.20	3.65E-04	4193	0.10	5.30E-03	6583	-0.10	3.44E-05
395								
1992	0.20	7.30E-07	4194	-0.10	6.39E-03	6584	-0.10	2.42E-03
1993	-0.10	1.45E-07	4197	-0.10	2.86E-04	6587	0.10	4.55E-05
1996	0.10	1.17E-04	4202	0.10	3.35E-08	6596	-0.10	3.83E-03
1999	0.10	1.79E-04	4205	0.10	3.93E-05	6597	0.10	9.25E-03
2002	-0.20	5.50E-04	4214	-0.10	3.95E-03	6598	0.10	9.38E-03
2004	0.10	1.76E-04	4219	0.20	1.78E-06	6600	0.10	3.42E-04
2009	-0.10	4.45E-04	4234	-0.10	1.29E-05	6615	0.10	1.08E-04
2015	-0.10	2.14E-03	4244	-0.10	8.04E-06	6621	-0.10	9.30E-07
2017	-0.10	6.38E-06	4245	-0.10	7.19E-03	6626	-0.10	4.25E-03
2024	0.10	9.59E-05	4248	-0.10	7.58E-03	6639	0.10	1.46E-04
2037	-0.10	3.61E-03	4249	0.10	9.72E-04	6643	0.10	1.48E-04
2040	-0.10	4.10E-04	4252	-0.10	1.43E-04	6644	-0.10	4.39E-03
2044	-0.10	9.47E-03	4259	0.20	6.28E-07	6648	-0.20	4.40E-04
2059	0.10	1.36E-05	4265	0.10	1.83E-05	6649	-0.10	4.14E-03
2071	0.10	2.94E-03	4271	-0.20	9.06E-04	6651	-0.10	7.63E-03
2075	-0.10	6.62E-10	4274	-0.10	1.16E-05	6658	-0.10	2.82E-04
2077	0.10	1.31E-11	4281	-0.10	2.19E-04	6659	0.10	2.32E-06
2078	-0.10	6.10E-05	4285	0.10	9.77E-09	6660	-0.10	1.00E-06
2088	0.10	1.07E-03	4297	0.10	3.65E-08	6675	-0.10	4.80E-03
2093	-0.10	1.06E-04	4301	-0.10	1.81E-04	6678	0.20	3.99E-06
2094	-0.10	8.06E-03	4309	0.10	6.12E-03	6683	-0.10	9.03E-04

2096	0.10	2.11E-04
2105	0.10	4.55E-04
2107	0.10	7.70E-07
2108	0.20	3.34E-04
2114	-0.10	8.65E-04
2115	-0.20	5.81E-03
2118	0.10	2.56E-04
2123	0.10	5.06E-05
2126	0.20	5.71E-09
2131	-0.20	3.91E-09
2162	0.10	4.39E-06
2166	-0.10	2.08E-04
2171	0.10	8.75E-03
2172	0.10	1.24E-05
2183	-0.10	6.55E-05
2187	-0.10	5.13E-04
2201	0.10	2.55E-04
2211	0.10	1.90E-05
2212	-0.10	8.24E-03
2215	0.10	2.56E-04
2224	0.10	2.43E-05
2226	-0.10	4.67E-03
2228	-0.20	5.09E-05
2229	-0.10	1.44E-03
2231	0.20	4.17E-08
2238	-0.10	4.29E-04
2248	-0.10	2.33E-03
2268	-0.10	1.48E-03
2272	0.10	1.60E-04
2275	-0.10	9.02E-03
2299	0.10	6.67E-03
2300	0.10	4.73E-05
2303	0.10	1.03E-05
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6698	-0.10	2.57E-03
6704	-0.10	3.80E-03
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A	B	C	A	B	C	A	B	C
6954	-0.10	4.74E-03	9010	-0.10	4.95E-05	11649	-0.10	1.13E-05
6960	0.10	1.91E-03	9011	0.10	2.63E-03	11652	-0.20	6.85E-05
6976	0.10	7.34E-06	9013	-0.10	1.74E-05	11656	-0.10	2.82E-04
6996	0.10	2.28E-03	9022	0.10	3.82E-03	11659	-0.20	6.66E-12
6998	-0.10	2.14E-04	9023	-0.10	7.27E-03	11684	0.10	4.65E-03
6999	-0.10	8.18E-06	9027	-0.10	1.87E-07	11692	-0.20	8.88E-04
7006	0.10	4.13E-03	9030	0.10	2.43E-03	11693	-0.10	3.02E-04
7020	-0.10	7.88E-05	9040	-0.10	1.00E-04	11704	0.20	1.32E-05
7021	0.20	2.15E-06	9043	-0.10	2.66E-04	11717	-0.10	1.53E-05
7028	0.10	4.24E-03	9055	-0.10	9.42E-07	11719	-0.10	1.19E-03
7035	-0.10	4.57E-04	9057	-0.10	4.66E-04	11722	-0.20	6.53E-12
7036	-0.10	4.17E-04	9059	-0.10	1.18E-05	11726	0.10	1.85E-05
7048	-0.10	4.77E-04	9081	0.10	6.13E-03	11742	0.10	3.55E-04
7053	-0.10	2.67E-04	9082	0.10	1.64E-03	11754	-0.10	2.50E-03
7056	-0.10	2.28E-04	9084	-0.10	2.15E-03	11756	0.10	1.17E-07
7072	-0.10	2.98E-04	9086	0.10	2.37E-04	11757	-0.10	4.71E-03
7073	-0.10	2.98E-04	9093	0.10	3.80E-03	11770	0.10	6.63E-03
7082	0.10	1.84E-05	9096	-0.10	4.45E-06	11803	-0.10	7.49E-03
7084	-0.10	4.06E-04	9101	0.10	7.19E-10	11825	0.10	1.77E-04
7086	-0.10	4.94E-03	9120	-0.10	7.92E-03	11843	0.10	4.10E-03
7090	-0.10	4.39E-03	9129	0.10	1.71E-08	11847	0.10	1.08E-05
7092	0.10	1.40E-03	9132	-0.10	3.30E-03	11873	-0.10	6.77E-03
7104	-0.20	8.91E-03	9133	-0.10	6.28E-03	11890	-0.10	2.24E-04
7108	-0.10	9.41E-05	9138	0.10	8.02E-10	11897	0.10	2.19E-03
7109	-0.10	1.56E-04	9142	0.10	8.40E-05	11898	-0.10	2.55E-06
7111	0.10	2.84E-04	9150	0.10	2.02E-03	11903	0.10	1.55E-04
7116	0.10	3.23E-11	9154	-0.20	9.27E-05	11919	-0.10	1.51E-03
7122	-0.10	5.45E-03	9155	-0.10	1.42E-03	11935	-0.10	6.19E-03
7124	-0.10	5.48E-03	9161	-0.10	7.46E-06	11939	-0.10	1.84E-06
7128	0.10	3.35E-07	9165	0.10	4.66E-07	11943	0.20	6.30E-05
7129	-0.10	8.04E-05	9180	0.10	2.37E-04	11944	-0.10	4.28E-04
7139	-0.10	8.81E-03	9182	-0.10	3.57E-03	11958	-0.10	8.86E-03
7149	0.10	1.05E-05	9183	-0.10	1.86E-05	11959	0.10	1.27E-04
7162	0.10	2.11E-05	9187	-0.10	3.97E-05	11976	-0.10	1.31E-03
7166	-0.10	2.67E-04	9191	-0.10	2.50E-04	12000	-0.10	2.07E-03

7167	0.10	8.04E-04	9192	-0.10	2.79E-03	12009	0.10	9.77E-04
7175	-0.10	1.10E-03	9194	0.10	6.36E-03	12022	-0.20	6.20E-05
7181	-0.20	3.31E-04	9200	-0.20	1.37E-11	12032	0.10	1.02E-05
7189	0.10	5.41E-04	9207	0.10	8.74E-05	12043	-0.10	7.66E-04
7195	-0.10	2.54E-09	9208	-0.10	2.94E-03	12046	0.10	2.34E-03
7198	-0.10	1.35E-03	9231	-0.10	4.10E-07	12063	0.10	5.42E-05
7199	-0.10	5.69E-07	9241	-0.10	9.78E-03	12067	-0.10	4.08E-03
7201	-0.10	4.23E-05	9248	0.10	1.39E-03	12071	0.10	9.27E-03
7218	-0.10	3.85E-07	9250	-0.10	1.73E-03	12081	-0.10	1.90E-05
7219	-0.10	1.02E-04	9251	-0.10	1.24E-03	12086	-0.10	1.10E-03
7227	0.10	6.68E-03	9252	-0.10	4.61E-04	12095	-0.10	1.13E-05
7228	0.10	7.59E-03	9258	0.20	1.44E-06	12117	0.10	8.37E-04
7231	0.10	8.76E-07	9260	-0.10	1.02E-03	12131	-0.20	4.53E-04
7232	-0.10	1.50E-09	9261	0.10	6.54E-06	12132	0.10	2.46E-03
7241	0.10	6.20E-03	9265	0.10	1.27E-03	12141	0.00	3.31E-03
7251	0.10	9.00E-03	9266	-0.20	1.47E-09	12147	0.10	9.80E-04
7255	0.20	8.60E-04	9275	-0.10	1.72E-03	12168	0.10	1.14E-05
7261	0.10	5.41E-03	9281	-0.10	2.36E-10	12174	-0.10	3.95E-03
7263	0.10	2.34E-04	9288	-0.10	3.23E-04	12183	0.10	2.73E-04
7269	0.10	4.59E-05	9293	-0.10	5.68E-03	12186	0.10	2.76E-03
7270	-0.10	3.61E-04	9294	-0.10	4.52E-03	12193	-0.10	1.55E-07
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7278	0.10	1.70E-06	9305	0.10	6.84E-05	12228	-0.20	7.74E-04
7279	-0.10	2.93E-06	9307	0.10	5.30E-04	12232	0.20	2.36E-11
7285	0.20	9.03E-07	9310	0.10	1.54E-03	12241	-0.20	7.10E-07
7289	0.10	5.54E-03	9314	0.10	6.83E-05	12257	-0.10	2.54E-03
7300	0.10	6.26E-03	9315	-0.10	5.54E-03	12260	0.10	5.72E-03
7313	0.10	6.51E-04	9327	-0.20	1.74E-05	12283	-0.10	5.26E-04
7322	-0.10	1.82E-04	9335	-0.10	9.33E-03	12284	0.10	4.12E-03
7329	-0.20	1.06E-03	9342	-0.10	3.10E-05	12291	0.10	3.32E-05
7331	0.10	5.71E-03	9347	-0.10	1.85E-05	12293	-0.10	1.39E-03
7357	0.10	2.38E-03	9348	0.00	5.07E-03	12302	0.10	2.25E-04
7361	0.10	5.28E-05	9349	-0.10	1.21E-03	12308	0.10	5.81E-03
7362	-0.10	9.55E-04	9352	0.10	7.58E-05	12322	0.10	3.14E-03
7367	-0.10	6.20E-07	9353	0.10	1.18E-04	12330	0.10	5.31E-04
7374	0.10	2.55E-06	9355	0.10	3.36E-03	12336	0.10	7.33E-05
7376	0.10	4.28E-04	9356	-0.10	8.88E-04	12344	0.10	9.38E-09

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7390	0.10	7.94E-06	9360	-0.10	1.12E-03	12358	-0.10	6.82E-10
7403	-0.10	9.79E-04	9361	0.10	1.78E-03	12368	0.10	2.55E-03
7404	-0.10	7.40E-04	9368	0.10	4.59E-05	12379	-0.10	2.55E-05
7424	0.10	3.09E-05	9373	0.10	1.87E-05	12393	0.10	1.62E-08
7426	0.10	1.19E-03	9386	-0.10	4.51E-04	12411	0.10	3.95E-03
7429	0.10	6.97E-07	9397	-0.10	2.85E-03	12412	-0.10	2.87E-04
7431	0.10	3.57E-04	9402	-0.20	7.93E-11	12444	-0.10	2.98E-03
7448	-0.10	2.63E-06	9404	-0.10	4.10E-04	12458	0.10	2.48E-07
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7451	-0.10	5.64E-03	9413	-0.10	1.53E-03	12469	-0.10	3.10E-04
7454	-0.10	8.85E-03	9415	-0.10	7.50E-03	12477	-0.10	1.12E-03
7460	0.10	3.96E-05	9432	0.10	4.99E-03	12482	-0.10	1.99E-04
7464	-0.10	3.28E-04	9433	-0.10	9.14E-03	12489	-0.10	2.93E-04
7467	0.10	5.68E-04	9437	-0.20	9.95E-04	12491	0.10	1.61E-07
7476	-0.10	2.70E-03	9445	-0.10	6.59E-04	12498	0.10	1.21E-05
7477	-0.10	1.55E-05	9464	-0.10	4.68E-05	12500	-0.20	1.03E-06
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7481	-0.10	3.99E-03	9476	-0.10	1.32E-04	12518	0.10	1.53E-03
7491	0.10	7.55E-04	9477	-0.10	6.96E-03	12521	0.20	2.38E-12
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7494	0.10	1.59E-05	9480	-0.10	1.94E-03	12529	0.10	3.18E-03
7503	-0.10	3.69E-05	9485	-0.10	4.55E-04	12540	0.10	5.64E-03
7504	-0.20	7.48E-06	9487	0.10	8.88E-03	12544	0.10	5.43E-04
7507	-0.10	5.13E-03	9493	0.10	6.64E-04	12545	-0.20	3.47E-03
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7545	0.10	4.81E-04	9505	-0.10	3.14E-06	12577	-0.10	1.49E-08
7547	-0.10	1.29E-05	9507	0.10	5.37E-03	12583	-0.10	2.18E-03
7548	-0.10	6.31E-03	9508	0.10	5.05E-05	12584	-0.10	1.19E-06
7549	-0.20	1.13E-14	9521	-0.10	8.30E-07	12588	-0.10	5.62E-03
7553	0.20	9.10E-03	9530	-0.10	3.41E-03	12591	-0.10	6.43E-05
7560	0.10	1.51E-03	9538	-0.10	9.72E-05	12592	0.10	1.10E-05
7561	0.10	4.97E-04	9540	-0.10	2.57E-04	12602	-0.10	4.80E-04
7563	-0.10	6.15E-03	9553	-0.10	7.72E-05	12605	-0.10	3.23E-03
7569	0.10	2.19E-06	9554	0.10	3.82E-03	12606	-0.10	1.50E-03
7570	-0.10	1.81E-05	9575	0.10	2.11E-06	12613	-0.20	8.28E-12

7571	0.10	3.69E-04	9582	0.10	2.45E-03	12617	-0.10	7.91E-04
7573	0.20	1.39E-09	9587	0.10	2.45E-04	12625	0.10	2.58E-03
7575	-0.20	2.00E-04	9589	0.10	3.38E-03	12656	-0.10	7.14E-05
7578	-0.10	1.37E-03	9590	0.10	4.52E-04	12657	0.10	4.33E-05
7582	-0.10	1.08E-04	9595	-0.10	1.07E-04	12667	0.10	5.02E-03
7599	0.10	1.75E-05	9608	0.10	2.16E-03	12668	-0.20	3.05E-12
7601	-0.10	7.97E-04	9609	0.10	3.45E-05	12670	-0.10	3.89E-03
7603	-0.10	6.91E-03	9615	-0.10	7.50E-03	12673	-0.10	3.71E-06
7605	-0.10	1.76E-07	9620	-0.20	6.07E-03	12675	-0.10	2.70E-07
7606	0.10	8.72E-05	9633	-0.20	3.77E-05	12679	-0.10	1.14E-03
7643	0.10	3.15E-03	9638	0.10	6.04E-03	12682	0.10	2.40E-04
7644	-0.10	6.76E-05	9642	-0.10	9.43E-03	12683	-0.10	1.99E-03
7658	-0.20	7.33E-03	9646	-0.10	1.01E-03	12686	0.10	7.11E-03
7660	0.10	2.06E-04	9647	-0.10	4.97E-03	12687	-0.10	6.60E-04
7665	0.10	1.38E-03	9654	-0.10	8.47E-03	12711	0.10	1.28E-03
7670	-0.10	3.29E-03	9656	-0.10	1.62E-04	12715	-0.10	9.86E-04
7671	-0.10	3.05E-03	9665	-0.10	3.87E-06	12725	-0.10	1.12E-06
7688	-0.10	4.14E-06	9671	0.10	1.20E-03	12728	-0.20	2.33E-07
7689	0.10	3.66E-03	9672	-0.10	6.76E-04	12732	-0.10	9.73E-03
7690	-0.10	1.18E-05	9676	0.10	6.23E-05	12740	-0.10	7.88E-03
7691	-0.10	9.58E-06	9680	0.10	3.94E-06	12757	0.20	1.62E-06
7693	-0.10	7.50E-05	9681	0.10	2.75E-03	12766	-0.10	5.04E-06
7698	0.10	9.90E-04	9684	0.10	3.98E-04	12782	-0.10	2.13E-04
7699	0.10	5.60E-03	9685	-0.10	5.84E-05	12788	-0.10	1.71E-03
7721	-0.10	3.00E-05	9687	-0.10	4.93E-03	12794	-0.10	1.86E-05
7722	-0.20	9.95E-05	9695	-0.10	2.10E-03	12799	0.10	1.21E-06
7723	-0.10	5.41E-04	9696	-0.10	1.40E-03	12814	-0.20	8.73E-04
7729	0.10	5.37E-04	9697	-0.10	9.21E-03	12816	-0.10	2.83E-04
7730	-0.10	3.01E-03	9699	-0.10	1.07E-04	12833	-0.10	1.55E-06
7735	0.10	3.39E-04	9714	0.10	1.52E-04	12840	-0.20	2.82E-04
7738	0.10	3.18E-05	9715	-0.10	7.98E-03	12842	-0.10	9.04E-03
7745	0.10	2.01E-04	9718	-0.10	8.86E-04	12849	-0.10	4.00E-03
7750	0.10	1.47E-05	9730	-0.10	2.00E-04	12885	0.10	1.34E-03
7751	0.10	1.34E-05	9733	0.10	9.97E-03	12888	-0.10	4.23E-06
7753	0.10	8.26E-04	9746	0.10	6.45E-04	12889	0.10	1.39E-04
7754	0.10	4.65E-05	9749	0.10	3.81E-07	12905	-0.10	3.91E-03
7755	0.10	7.53E-04	9750	0.10	1.47E-03	12909	-0.10	1.01E-05

7763	-0.10	4.03E-03	9755	0.10	6.21E-03	12927	-0.10	1.15E-09
7777	-0.10	1.60E-03	9763	0.10	3.35E-05	12935	0.10	8.28E-03
7782	-0.10	1.04E-06	9766	0.10	1.62E-03	12941	-0.20	1.67E-04
7793	0.10	7.46E-03	9767	-0.20	2.50E-03	12977	0.10	2.95E-03
7815	-0.10	5.75E-07	9771	-0.10	1.12E-04	12979	-0.10	3.34E-03
7816	-0.10	2.23E-04	9773	-0.10	8.02E-03	12980	-0.10	8.20E-04
7822	-0.10	4.27E-10	9782	-0.10	4.30E-03	12981	0.10	3.85E-03
7828	-0.10	7.54E-03	9835	0.10	1.10E-03	12993	0.10	1.63E-06
7860	-0.20	5.30E-11	9844	0.10	4.23E-04	12994	-0.10	1.38E-06
7871	0.10	4.13E-05	9851	-0.20	3.48E-05	12996	0.10	7.02E-04
7876	-0.10	4.64E-08	9858	-0.10	1.52E-09	13000	-0.10	2.20E-04
7879	-0.10	5.27E-04	9859	-0.20	4.07E-14	13006	0.10	3.50E-03
7885	0.20	8.75E-09	9867	-0.20	1.05E-14	13029	0.10	5.24E-03
7886	0.10	4.76E-03	9868	-0.10	2.01E-03	13051	0.10	2.67E-06
7888	0.10	7.65E-04	9869	-0.10	5.85E-03	13055	0.10	8.08E-03
7889	-0.10	7.76E-03	9874	-0.10	4.38E-03	13065	-0.10	2.78E-06
7900	-0.10	5.44E-04	9899	0.10	3.16E-05	13080	0.10	1.27E-03
7901	0.10	8.77E-03	9900	-0.10	1.09E-03	13107	-0.10	7.69E-03
7903	0.10	5.29E-03	9913	-0.10	1.10E-03	13123	-0.10	8.36E-03
7914	0.10	4.15E-05	9917	-0.10	2.67E-06	13139	0.20	1.34E-08
7934	-0.10	8.49E-03	9922	-0.10	6.75E-05	13142	-0.10	8.21E-03
7937	0.10	1.36E-03	9929	0.20	3.95E-06	13143	0.10	3.82E-06
7939	0.10	4.57E-03	9936	0.10	1.97E-07	13149	0.10	8.61E-04
7946	-0.20	1.44E-04	9945	-0.10	6.30E-04	13151	-0.10	4.39E-05
7950	-0.10	2.29E-05	9952	0.10	9.43E-04	13153	-0.10	5.56E-03
7952	0.10	5.04E-04	9957	-0.10	1.39E-05	13184	-0.10	1.42E-04
7964	0.10	6.59E-04	9959	0.10	3.94E-06	13194	0.10	7.93E-05
7965	0.10	1.21E-07	9964	0.10	4.30E-05	13210	0.10	5.61E-04
7976	-0.10	2.72E-05	9982	-0.10	2.74E-07	13211	-0.10	5.50E-03
7982	0.10	2.41E-03	9987	-0.10	8.20E-04	13215	0.10	3.47E-03
8008	-0.10	2.50E-03	9995	0.10	9.96E-09	13224	-0.10	4.21E-03
8009	-0.10	5.15E-05	10011	-0.10	5.02E-03	13254	0.10	2.85E-03
8012	-0.10	2.75E-03	10015	-0.10	1.29E-05	13298	-0.10	2.36E-03
8024	-0.10	6.78E-03	10023	0.10	2.40E-04	13305	-0.10	9.43E-07
8025	-0.10	1.13E-04	10033	0.10	1.70E-05	13308	-0.20	1.73E-04
8026	0.10	5.56E-03	10035	0.10	1.19E-07	13310	0.20	5.55E-10
8027	-0.10	5.38E-03	10036	-0.10	1.10E-06	13312	-0.10	5.21E-03
8028	-0.10	9.82E-03	10044	0.10	1.24E-03	13368	-0.20	1.47E-04

8031	0.10	9.44E-03	10048	-0.10	1.58E-03	13378	-0.10	3.52E-04
8032	-0.10	1.05E-03	10058	0.10	1.20E-05	13389	-0.10	6.90E-03
8034	-0.10	2.87E-03	10062	-0.10	8.78E-05	13404	-0.20	7.62E-04
8035	-0.10	2.97E-03	10069	-0.10	2.83E-05	13406	-0.10	6.09E-03
8040	0.10	1.85E-05	10076	-0.10	4.51E-07	13441	0.20	2.94E-11
8044	0.10	1.86E-04	10079	0.10	8.63E-06	13461	-0.10	6.39E-03
8046	0.10	7.20E-04	10080	-0.10	9.65E-05	13465	0.10	4.07E-03
8048	-0.10	3.26E-03	10084	0.10	9.26E-03	13466	-0.10	1.55E-05
8059	0.10	6.28E-03	10086	-0.10	7.73E-03	13475	-0.10	6.19E-03
8060	-0.10	3.84E-07	10087	-0.10	4.64E-06	13485	0.20	2.58E-05
8062	-0.10	3.50E-05	10092	-0.20	7.48E-15	13491	-0.20	9.78E-03
8063	-0.10	2.60E-05	10095	0.10	1.14E-05	13497	0.10	2.05E-03
8067	0.10	1.51E-03	10103	-0.10	8.53E-06	13519	0.10	1.27E-03
8075	-0.10	9.90E-05	10104	-0.10	1.11E-03	13527	-0.10	5.15E-08
8083	-0.10	8.77E-03	10129	0.10	1.28E-03	13538	-0.10	1.24E-04
8085	-0.10	2.17E-05	10132	0.10	1.10E-05	13540	-0.20	1.94E-03
8087	-0.10	5.93E-04	10142	-0.10	9.47E-03	13552	0.10	3.38E-03
8088	0.10	1.34E-03	10157	-0.10	5.77E-09	13554	0.10	3.77E-03
8090	0.10	7.14E-03	10162	-0.20	2.38E-10	13565	-0.10	8.24E-05
8092	-0.10	3.20E-04	10164	0.10	1.73E-04	13578	0.10	1.05E-06
8094	0.10	1.46E-06	10177	0.10	8.65E-04	13592	-0.10	4.41E-03
8103	-0.10	8.84E-04	10193	-0.10	7.75E-03	13599	-0.10	8.47E-05
8111	-0.20	7.42E-15	10194	-0.10	3.65E-06	13604	-0.10	2.12E-03
8119	-0.10	1.67E-09	10196	-0.20	6.11E-04	13615	0.10	2.95E-04
8127	0.10	5.28E-06	10198	0.10	6.45E-04	13618	0.10	2.36E-04
8132	-0.10	7.43E-03	10200	0.10	5.12E-04	13629	0.10	2.08E-04
8133	-0.10	1.42E-05	10210	0.10	5.67E-03	13631	-0.20	1.23E-08
8134	0.20	3.22E-07	10248	0.10	1.03E-03	13637	-0.10	2.55E-06
8145	-0.10	7.82E-04	10271	0.00	6.37E-03	13652	-0.10	1.03E-04
8147	0.10	3.50E-03	10276	-0.20	5.83E-03	13668	0.10	1.41E-04
8163	-0.10	1.75E-05	10286	-0.10	4.45E-03	13689	-0.20	9.17E-06
8166	0.10	8.59E-07	10287	0.10	8.26E-03	13702	-0.10	6.51E-03
8171	0.10	9.84E-03	10290	0.10	6.88E-03	13707	-0.20	1.63E-04
8173	0.10	2.98E-03	10291	-0.10	5.94E-08	13727	-0.10	1.57E-03
8176	-0.10	5.31E-03	10304	-0.10	2.59E-06	13734	0.10	4.68E-04
8184	-0.10	1.24E-03	10331	0.10	1.30E-04	13741	-0.10	5.69E-03
8188	0.10	2.24E-03	10333	0.10	5.35E-03	13783	-0.10	3.89E-03

8189	-0.10	1.66E-03	10341	-0.10	4.93E-07	13791	0.10	1.68E-03
8192	0.10	4.28E-06	10343	0.10	6.56E-04	13793	-0.10	2.43E-03
8194	-0.10	5.51E-03	10353	0.20	3.87E-06	13795	0.10	1.26E-03
8196	-0.10	7.78E-04	10358	-0.10	1.53E-04	13812	-0.10	1.17E-03
8212	-0.10	1.72E-04	10370	0.10	2.42E-03	13814	-0.10	1.59E-03
8219	0.10	5.46E-03	10374	-0.10	3.42E-09	13827	0.10	6.56E-05
8224	-0.10	2.32E-04	10380	0.10	5.94E-03	13839	-0.10	6.70E-03
8228	0.10	1.90E-05	10385	0.10	1.40E-05	13843	-0.10	6.76E-03
8233	-0.10	2.86E-07	10386	-0.10	7.55E-04	13867	-0.10	4.81E-04
8235	-0.10	5.13E-07	10391	0.10	5.79E-04	13878	-0.10	1.15E-06
8240	-0.10	5.22E-05	10396	-0.10	4.19E-03	13898	0.10	1.97E-04
8241	-0.10	4.59E-04	10409	0.10	3.54E-04	13899	-0.10	4.52E-03
8244	-0.10	1.79E-08	10421	0.10	3.40E-04	13906	-0.10	6.13E-03
8246	-0.20	3.69E-04	10422	0.10	6.84E-03	13926	-0.20	1.69E-04
8256	-0.10	6.02E-03	10436	-0.10	8.57E-03	13927	0.10	4.85E-05
8258	-0.10	3.05E-03	10438	0.10	1.48E-03	13929	-0.10	8.59E-03
8261	0.10	5.66E-04	10444	-0.10	5.85E-07	13934	-0.10	3.35E-05
8270	0.10	7.38E-03	10447	-0.10	3.45E-03	13935	0.10	8.14E-03
8276	-0.10	8.61E-06	10453	-0.20	3.62E-03	13939	-0.10	6.06E-03
8277	-0.20	7.98E-04	10454	0.10	1.13E-05	13949	-0.10	5.26E-03
8281	-0.10	1.99E-03	10457	0.10	1.08E-04	13971	0.10	9.05E-03
8285	0.10	5.71E-04	10461	-0.10	3.14E-03	13984	-0.10	8.52E-10
8287	-0.10	3.51E-03	10462	0.10	8.74E-04	13989	-0.10	6.66E-03
8289	-0.10	5.09E-08	10468	-0.10	9.30E-04	13994	0.10	2.67E-04
8312	0.10	4.84E-03	10478	0.10	1.82E-03	13997	0.10	3.10E-03
8318	-0.10	4.03E-04	10480	-0.10	1.50E-04	13998	0.20	2.04E-07
8323	-0.10	2.98E-03	10485	-0.10	5.34E-04	14014	-0.10	7.08E-05
8336	-0.10	9.26E-03	10487	-0.20	1.44E-07	14050	0.10	7.17E-03
8340	-0.10	2.73E-05	10490	-0.10	8.96E-04	14055	0.10	8.80E-04
8351	0.10	3.60E-03	10492	0.10	4.74E-04	14079	0.20	9.79E-11
8352	-0.10	1.35E-04	10494	0.10	2.74E-04	14081	-0.10	8.15E-03
8353	-0.10	1.16E-04	10507	-0.10	5.06E-04	14090	-0.20	8.17E-05
8361	0.10	2.63E-03	10515	-0.10	4.83E-04	14113	0.10	4.93E-05
8362	-0.10	4.85E-03	10520	-0.20	3.84E-05	14116	0.10	7.56E-04
8367	0.00	6.78E-03	10530	0.10	6.40E-03	14120	-0.10	7.63E-03
8383	0.10	6.46E-03	10538	0.10	4.77E-05	14136	-0.10	4.71E-03
8391	-0.10	4.80E-03	10539	0.10	8.23E-09	14153	-0.10	5.13E-04

8397	0.10	7.06E-03	10555	0.10	7.98E-03	14182	0.10	6.50E-03
8398	0.10	2.70E-04	10570	-0.10	8.39E-07	14189	0.20	3.36E-07
8411	-0.10	1.05E-03	10578	-0.10	1.45E-07	14194	-0.10	6.26E-03
8412	-0.10	1.19E-03	10608	-0.10	4.23E-05	14195	-0.10	5.06E-04
8413	0.10	5.01E-07	10625	0.10	5.05E-04	14197	-0.10	3.98E-03
8415	0.10	1.24E-04	10633	-0.10	3.33E-06	14198	0.10	8.37E-05
8421	-0.10	9.54E-05	10637	0.10	4.50E-03	14206	0.10	2.88E-04
8423	-0.10	9.29E-03	10639	-0.10	3.32E-03	14213	0.10	6.07E-03
8433	-0.10	1.18E-04	10653	0.10	8.58E-04	14222	-0.20	1.44E-04
8441	0.10	3.55E-03	10655	-0.10	1.04E-04	14237	-0.10	2.73E-07
8446	-0.10	1.40E-05	10666	-0.10	1.13E-03	14246	-0.10	2.36E-03
8451	-0.10	5.25E-04	10674	-0.10	1.66E-08	14265	-0.10	6.72E-04
8454	-0.10	2.54E-06	10677	0.10	6.47E-04	14273	-0.10	1.95E-06
8455	0.10	1.08E-04	10685	-0.10	1.39E-04	14296	-0.10	2.30E-05
8457	0.10	8.52E-03	10687	0.10	4.10E-04	14301	0.10	2.20E-05
8464	0.10	7.76E-04	10688	-0.10	3.82E-04	14306	0.10	2.46E-05
8466	0.10	1.76E-04	10715	0.10	5.84E-03	14307	0.10	3.10E-07
8467	0.10	5.41E-07	10717	-0.10	9.70E-06	14310	-0.10	9.04E-03
8473	-0.10	2.94E-03	10722	0.10	3.86E-03	14330	-0.10	6.36E-03
8476	-0.10	2.57E-04	10738	-0.10	2.79E-05	14344	-0.10	4.89E-03
8477	-0.10	2.08E-04	10759	-0.10	1.43E-03	14365	0.10	9.70E-04
8478	-0.10	4.19E-04	10763	-0.10	3.38E-03	14371	-0.10	6.18E-03
8484	-0.20	6.45E-11	10768	-0.10	4.47E-03	14379	-0.10	3.44E-04
8489	-0.10	8.88E-03	10769	-0.10	1.83E-04	14389	-0.10	3.42E-04
8508	-0.10	6.58E-04	10778	0.10	1.01E-03	14390	0.10	1.99E-03
8515	0.10	4.71E-03	10780	0.10	3.42E-03	14392	0.10	5.41E-04
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0.09	0.09	0.09
0.07	0.07	0.07
0.08	0.08	0.08
-0.08	-0.08	-0.08
-0.10	-0.10	-0.10
-0.09	-0.09	-0.09

0.10	0.10	0.10
-0.14	-0.14	-0.14
0.09	0.09	0.09
-0.19	-0.19	-0.19
-0.16	-0.16	-0.16
-0.09	-0.09	-0.09
-0.15	-0.15	-0.15
0.09	0.09	0.09
-0.13	-0.13	-0.13
-0.30	-0.30	-0.30
-0.08	-0.08	-0.08
0.16	0.16	0.16
0.10	0.10	0.10
-0.16	-0.16	-0.16
0.10	0.10	0.10
0.09	0.09	0.09
-0.13	-0.13	-0.13
-0.17	-0.17	-0.17
-0.16	-0.16	-0.16
0.10	0.10	0.10
0.12	0.12	0.12
0.13	0.13	0.13
-0.10	-0.10	-0.10
-0.16	-0.16	-0.16
-0.18	-0.18	-0.18
0.16	0.16	0.16
-0.05	-0.05	-0.05
-0.13	-0.13	-0.13
-0.12	-0.12	-0.12
-0.08	-0.08	-0.08
-0.14	-0.14	-0.14
-0.22	-0.22	-0.22
0.10	0.10	0.10
-0.12	-0.12	-0.12
-0.18	-0.18	-0.18
0.12	0.12	0.12
0.10	0.10	0.10
0.16	0.16	0.16

-0.08	-0.08	-0.08
-0.11	-0.11	-0.11
-0.08	-0.08	-0.08
-0.15	-0.15	-0.15
0.14	0.14	0.14
-0.12	-0.12	-0.12
0.09	0.09	0.09
0.16	0.16	0.16
-0.22	-0.22	-0.22
-0.11	-0.11	-0.11
-0.29	-0.29	-0.29
0.15	0.15	0.15
0.11	0.11	0.11
-0.17	-0.17	-0.17
0.11	0.11	0.11
-0.22	-0.22	-0.22
-0.08	-0.08	-0.08
-0.09	-0.09	-0.09
-0.08	-0.08	-0.08
0.10	0.10	0.10
-0.17	-0.17	-0.17
0.16	0.16	0.16
0.21	0.21	0.21
0.11	0.11	0.11
0.23	0.23	0.23
0.12	0.12	0.12
-0.25	-0.25	-0.25
-0.15	-0.15	-0.15
-0.08	-0.08	-0.08
0.07	0.07	0.07
0.18	0.18	0.18
0.12	0.12	0.12
0.13	0.13	0.13
-0.10	-0.10	-0.10
0.08	0.08	0.08
0.11	0.11	0.11
-0.21	-0.21	-0.21
0.15	0.15	0.15

0.09	0.09	0.09
-0.17	-0.17	-0.17
-0.16	-0.16	-0.16
-0.13	-0.13	-0.13
0.09	0.09	0.09
0.18	0.18	0.18
-0.16	-0.16	-0.16
0.10	0.10	0.10
-0.07	-0.07	-0.07
-0.07	-0.07	-0.07
-0.16	-0.16	-0.16
0.16	0.16	0.16
0.11	0.11	0.11
0.19	0.19	0.19
0.08	0.08	0.08
0.14	0.14	0.14
-0.19	-0.19	-0.19
0.07	0.07	0.07
0.10	0.10	0.10
-0.06	-0.06	-0.06
-0.15	-0.15	-0.15
-0.13	-0.13	-0.13
-0.19	-0.19	-0.19
-0.15	-0.15	-0.15
-0.21	-0.21	-0.21
0.07	0.07	0.07
0.13	0.13	0.13
-0.18	-0.18	-0.18
0.14	0.14	0.14
-0.09	-0.09	-0.09
0.12	0.12	0.12
-0.12	-0.12	-0.12
0.10	0.10	0.10
-0.12	-0.12	-0.12
0.14	0.14	0.14
-0.07	-0.07	-0.07
-0.15	-0.15	-0.15
0.11	0.11	0.11

-0.24	-0.24	-0.24
0.09	0.09	0.09
-0.11	-0.11	-0.11
0.10	0.10	0.10
-0.19	-0.19	-0.19
0.12	0.12	0.12
-0.15	-0.15	-0.15
-0.15	-0.15	-0.15
-0.12	-0.12	-0.12
-0.15	-0.15	-0.15
-0.14	-0.14	-0.14
0.10	0.10	0.10
-0.15	-0.15	-0.15
-0.22	-0.22	-0.22
0.07	0.07	0.07
-0.14	-0.14	-0.14
-0.07	-0.07	-0.07
-0.14	-0.14	-0.14
-0.21	-0.21	-0.21
-0.27	-0.27	-0.27
0.08	0.08	0.08
0.15	0.15	0.15
-0.15	-0.15	-0.15
0.13	0.13	0.13
-0.08	-0.08	-0.08
0.07	0.07	0.07
-0.17	-0.17	-0.17
-0.14	-0.14	-0.14
-0.20	-0.20	-0.20
0.11	0.11	0.11
-0.26	-0.26	-0.26
-0.14	-0.14	-0.14
-0.15	-0.15	-0.15
-0.09	-0.09	-0.09
0.10	0.10	0.10
-0.19	-0.19	-0.19
0.10	0.10	0.10
0.12	0.12	0.12

0.09	0.09	0.09
-0.07	-0.07	-0.07
0.09	0.09	0.09
-0.20	-0.20	-0.20
-0.17	-0.17	-0.17
-0.09	-0.09	-0.09
0.07	0.07	0.07
-0.10	-0.10	-0.10
-0.12	-0.12	-0.12
-0.13	-0.13	-0.13
-0.13	-0.13	-0.13
-0.20	-0.20	-0.20
-0.14	-0.14	-0.14
-0.11	-0.11	-0.11
0.24	0.24	0.24
0.08	0.08	0.08
-0.27	-0.27	-0.27
-0.24	-0.24	-0.24
-0.21	-0.21	-0.21
0.15	0.15	0.15
-0.20	-0.20	-0.20
-0.09	-0.09	-0.09
-0.11	-0.11	-0.11
0.08	0.08	0.08
-0.08	-0.08	-0.08
0.14	0.14	0.14
0.15	0.15	0.15
-0.10	-0.10	-0.10
-0.18	-0.18	-0.18
0.09	0.09	0.09
-0.16	-0.16	-0.16
0.16	0.16	0.16
0.13	0.13	0.13
-0.15	-0.15	-0.15
-0.09	-0.09	-0.09
0.07	0.07	0.07
-0.24	-0.24	-0.24
-0.12	-0.12	-0.12

-0.21	-0.21	-0.21
0.10	0.10	0.10
0.09	0.09	0.09
-0.25	-0.25	-0.25
0.09	0.09	0.09
0.16	0.16	0.16
-0.10	-0.10	-0.10
0.10	0.10	0.10
-0.15	-0.15	-0.15
0.08	0.08	0.08
-0.18	-0.18	-0.18
-0.14	-0.14	-0.14
-0.14	-0.14	-0.14
0.10	0.10	0.10
-0.10	-0.10	-0.10
0.10	0.10	0.10
0.13	0.13	0.13
-0.19	-0.19	-0.19
0.09	0.09	0.09
0.15	0.15	0.15
0.08	0.08	0.08
-0.24	-0.24	-0.24
-0.19	-0.19	-0.19
0.09	0.09	0.09
-0.21	-0.21	-0.21
-0.13	-0.13	-0.13
-0.12	-0.12	-0.12
-0.08	-0.08	-0.08
0.13	0.13	0.13
0.12	0.12	0.12
0.10	0.10	0.10
-0.17	-0.17	-0.17
-0.07	-0.07	-0.07
-0.16	-0.16	-0.16
-0.21	-0.21	-0.21
0.07	0.07	0.07
0.11	0.11	0.11
0.15	0.15	0.15

-0.18	-0.18	-0.18
0.23	0.23	0.23
0.18	0.18	0.18
-0.16	-0.16	-0.16
0.07	0.07	0.07
-0.11	-0.11	-0.11
-0.18	-0.18	-0.18
-0.11	-0.11	-0.11
0.10	0.10	0.10
0.08	0.08	0.08
-0.20	-0.20	-0.20
0.09	0.09	0.09
0.10	0.10	0.10
-0.08	-0.08	-0.08
-0.08	-0.08	-0.08
0.13	0.13	0.13
0.11	0.11	0.11
-0.14	-0.14	-0.14
-0.11	-0.11	-0.11
0.15	0.15	0.15
-0.26	-0.26	-0.26
0.14	0.14	0.14
0.15	0.15	0.15
0.10	0.10	0.10
-0.24	-0.24	-0.24
-0.17	-0.17	-0.17
0.09	0.09	0.09
-0.30	-0.30	-0.30
-0.15	-0.15	-0.15
0.17	0.17	0.17
0.15	0.15	0.15
-0.15	-0.15	-0.15
-0.13	-0.13	-0.13
-0.19	-0.19	-0.19
0.09	0.09	0.09
-0.16	-0.16	-0.16
-0.09	-0.09	-0.09
0.14	0.14	0.14

0.19	0.19	0.19
-0.09	-0.09	-0.09
0.09	0.09	0.09
0.08	0.08	0.08
0.10	0.10	0.10
0.07	0.07	0.07
0.08	0.08	0.08
-0.14	-0.14	-0.14
-0.09	-0.09	-0.09
-0.17	-0.17	-0.17
0.09	0.09	0.09
0.10	0.10	0.10
0.12	0.12	0.12
-0.31	-0.31	-0.31
0.10	0.10	0.10
-0.08	-0.08	-0.08
-0.08	-0.08	-0.08
-0.16	-0.16	-0.16
0.23	0.23	0.23
0.15	0.15	0.15
0.08	0.08	0.08
-0.25	-0.25	-0.25
-0.17	-0.17	-0.17
-0.28	-0.28	-0.28
-0.15	-0.15	-0.15
0.17	0.17	0.17
0.14	0.14	0.14
0.11	0.11	0.11
-0.23	-0.23	-0.23
-0.09	-0.09	-0.09
0.17	0.17	0.17
0.10	0.10	0.10
0.08	0.08	0.08
-0.23	-0.23	-0.23
0.15	0.15	0.15
-0.13	-0.13	-0.13
-0.12	-0.12	-0.12
-0.11	-0.11	-0.11

-0.12	-0.12	-0.12
-0.10	-0.10	-0.10
0.17	0.17	0.17
-0.16	-0.16	-0.16
0.21	0.21	0.21
-0.19	-0.19	-0.19
0.07	0.07	0.07
0.13	0.13	0.13
-0.09	-0.09	-0.09
-0.08	-0.08	-0.08
-0.07	-0.07	-0.07
0.09	0.09	0.09
0.12	0.12	0.12
0.10	0.10	0.10
-0.15	-0.15	-0.15
-0.07	-0.07	-0.07
0.12	0.12	0.12
0.09	0.09	0.09
-0.14	-0.14	-0.14
-0.11	-0.11	-0.11
0.14	0.14	0.14
-0.16	-0.16	-0.16
0.16	0.16	0.16
-0.08	-0.08	-0.08
-0.15	-0.15	-0.15
-0.16	-0.16	-0.16
-0.10	-0.10	-0.10
-0.12	-0.12	-0.12
-0.12	-0.12	-0.12
0.10	0.10	0.10
-0.25	-0.25	-0.25
-0.12	-0.12	-0.12
-0.12	-0.12	-0.12
0.11	0.11	0.11
-0.14	-0.14	-0.14
0.18	0.18	0.18
-0.14	-0.14	-0.14
-0.09	-0.09	-0.09

-0.12	-0.12	-0.12
-0.21	-0.21	-0.21
-0.12	-0.12	-0.12
0.12	0.12	0.12
-0.12	-0.12	-0.12
0.08	0.08	0.08
0.18	0.18	0.18
-0.19	-0.19	-0.19
0.09	0.09	0.09
0.13	0.13	0.13
-0.07	-0.07	-0.07
-0.16	-0.16	-0.16
0.25	0.25	0.25
-0.05	-0.05	-0.05
-0.10	-0.10	-0.10
-0.11	-0.11	-0.11
-0.07	-0.07	-0.07
0.08	0.08	0.08
0.10	0.10	0.10
-0.15	-0.15	-0.15
-0.08	-0.08	-0.08
-0.18	-0.18	-0.18
0.21	0.21	0.21
-0.20	-0.20	-0.20
-0.15	-0.15	-0.15
-0.07	-0.07	-0.07
0.12	0.12	0.12
0.08	0.08	0.08
0.15	0.15	0.15
-0.09	-0.09	-0.09
0.15	0.15	0.15
0.07	0.07	0.07
-0.09	-0.09	-0.09
0.10	0.10	0.10
0.10	0.10	0.10
-0.17	-0.17	-0.17
0.15	0.15	0.15
-0.13	-0.13	-0.13

-0.24	-0.24	-0.24
-0.18	-0.18	-0.18
-0.25	-0.25	-0.25
0.13	0.13	0.13
0.10	0.10	0.10
-0.14	-0.14	-0.14
-0.08	-0.08	-0.08
-0.21	-0.21	-0.21
-0.19	-0.19	-0.19
-0.09	-0.09	-0.09
-0.16	-0.16	-0.16
0.10	0.10	0.10
-0.13	-0.13	-0.13
0.07	0.07	0.07
-0.16	-0.16	-0.16
-0.16	-0.16	-0.16
-0.19	-0.19	-0.19
0.12	0.12	0.12
0.11	0.11	0.11
-0.08	-0.08	-0.08
0.08	0.08	0.08
0.11	0.11	0.11
0.07	0.07	0.07
-0.08	-0.08	-0.08
0.15	0.15	0.15
-0.13	-0.13	-0.13
0.08	0.08	0.08
-0.08	-0.08	-0.08
-0.18	-0.18	-0.18
-0.07	-0.07	-0.07
0.08	0.08	0.08
0.15	0.15	0.15
-0.21	-0.21	-0.21
0.17	0.17	0.17
-0.16	-0.16	-0.16
0.13	0.13	0.13
0.08	0.08	0.08
-0.18	-0.18	-0.18

-0.08	-0.08	-0.08
-0.10	-0.10	-0.10
0.09	0.09	0.09
-0.13	-0.13	-0.13
0.14	0.14	0.14
0.11	0.11	0.11
-0.20	-0.20	-0.20
0.15	0.15	0.15
0.15	0.15	0.15
0.09	0.09	0.09
0.17	0.17	0.17
-0.11	-0.11	-0.11
-0.11	-0.11	-0.11
0.12	0.12	0.12
-0.17	-0.17	-0.17
-0.15	-0.15	-0.15
-0.23	-0.23	-0.23
0.07	0.07	0.07
0.11	0.11	0.11
0.08	0.08	0.08
0.13	0.13	0.13
-0.21	-0.21	-0.21
-0.26	-0.26	-0.26
-0.14	-0.14	-0.14
-0.12	-0.12	-0.12
0.09	0.09	0.09
0.12	0.12	0.12
0.08	0.08	0.08
-0.15	-0.15	-0.15
0.14	0.14	0.14
0.12	0.12	0.12
-0.07	-0.07	-0.07
-0.16	-0.16	-0.16
-0.18	-0.18	-0.18
0.12	0.12	0.12
-0.13	-0.13	-0.13
-0.09	-0.09	-0.09
-0.10	-0.10	-0.10

-0.08	-0.08	-0.08
0.12	0.12	0.12
-0.11	-0.11	-0.11
-0.16	-0.16	-0.16
-0.19	-0.19	-0.19
-0.19	-0.19	-0.19
0.11	0.11	0.11
-0.15	-0.15	-0.15
-0.11	-0.11	-0.11
-0.23	-0.23	-0.23
0.13	0.13	0.13
-0.11	-0.11	-0.11
-0.09	-0.09	-0.09
0.12	0.12	0.12
-0.17	-0.17	-0.17
0.15	0.15	0.15
-0.13	-0.13	-0.13
-0.27	-0.27	-0.27
0.07	0.07	0.07
-0.25	-0.25	-0.25
-0.07	-0.07	-0.07
0.09	0.09	0.09
-0.16	-0.16	-0.16
-0.17	-0.17	-0.17
0.14	0.14	0.14
0.12	0.12	0.12
0.12	0.12	0.12
0.09	0.09	0.09
0.10	0.10	0.10
0.12	0.12	0.12
0.07	0.07	0.07
0.11	0.11	0.11
0.16	0.16	0.16
-0.18	-0.18	-0.18
-0.16	-0.16	-0.16
0.10	0.10	0.10
0.10	0.10	0.10
-0.20	-0.20	-0.20

-0.15	-0.15	-0.15
-0.15	-0.15	-0.15
-0.33	-0.33	-0.33
-0.09	-0.09	-0.09
-0.15	-0.15	-0.15
-0.37	-0.37	-0.37
-0.07	-0.07	-0.07
-0.13	-0.13	-0.13
-0.15	-0.15	-0.15
-0.09	-0.09	-0.09
-0.09	-0.09	-0.09
-0.16	-0.16	-0.16
-0.24	-0.24	-0.24
0.07	0.07	0.07
-0.18	-0.18	-0.18
-0.11	-0.11	-0.11
0.10	0.10	0.10
-0.12	-0.12	-0.12
0.13	0.13	0.13
-0.12	-0.12	-0.12
0.13	0.13	0.13
-0.07	-0.07	-0.07
0.08	0.08	0.08
-0.08	-0.08	-0.08
0.07	0.07	0.07
-0.17	-0.17	-0.17
-0.09	-0.09	-0.09
0.08	0.08	0.08
-0.14	-0.14	-0.14
-0.14	-0.14	-0.14
-0.13	-0.13	-0.13
0.13	0.13	0.13
0.09	0.09	0.09
-0.18	-0.18	-0.18
-0.22	-0.22	-0.22
0.11	0.11	0.11
0.10	0.10	0.10
-0.21	-0.21	-0.21

0.17	0.17	0.17
0.19	0.19	0.19
0.15	0.15	0.15
-0.15	-0.15	-0.15
-0.15	-0.15	-0.15
-0.16	-0.16	-0.16
0.14	0.14	0.14
0.12	0.12	0.12
0.07	0.07	0.07
-0.13	-0.13	-0.13
-0.09	-0.09	-0.09
0.08	0.08	0.08

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TABLE 26 - GENETIC MARKERS FOR MUZZLE WIDTH

A	B	C	A	B	C	A	B	C
1	-0.10	1.93E-04	1710	0.10	1.07E-03	3579	-0.10	1.72E-05
3	-0.10	3.27E-10	1715	0.10	2.00E-03	3586	-0.10	7.81E-04
5	0.10	5.09E-03	1716	0.10	3.01E-03	3588	0.10	2.53E-03
6	-0.10	8.78E-03	1722	-0.10	7.25E-09	3589	-0.10	8.11E-03
7	0.10	9.92E-03	1729	0.10	2.18E-04	3596	0.10	1.09E-05
8	-0.10	2.75E-09	1730	-0.10	5.61E-04	3599	-0.10	5.60E-03
17	-0.10	1.16E-07	1744	0.10	1.22E-03	3601	-0.10	7.39E-03
21	0.10	1.28E-03	1745	0.10	1.55E-03	3604	-0.10	2.01E-03
22	0.10	3.90E-05	1751	0.10	4.71E-04	3622	0.10	1.34E-03
35	0.10	1.01E-03	1755	-0.10	1.77E-03	3629	-0.10	1.17E-07
36	0.10	9.44E-03	1758	-0.10	4.66E-04	3630	0.10	3.99E-04
40	-0.20	4.55E-06	1760	0.10	1.28E-03	3649	-0.10	5.28E-04
55	-0.20	1.83E-05	1766	0.10	4.73E-03	3656	0.10	1.09E-10
63	-0.10	6.57E-07	1780	-0.10	7.85E-03	3658	-0.10	1.34E-04
66	0.10	2.74E-03	1788	0.10	5.89E-10	3675	0.20	1.03E-05
75	-0.10	4.68E-03	1795	0.10	3.95E-03	3683	0.10	8.06E-11
93	-0.10	2.87E-03	1798	-0.10	2.89E-04	3684	-0.10	6.42E-03
99	0.10	2.75E-05	1799	-0.10	5.96E-04	3690	-0.10	7.02E-03
101	0.10	1.68E-10	1800	-0.10	1.64E-03	3696	0.20	4.62E-07
114	-0.10	8.36E-03	1802	-0.20	1.43E-03	3702	-0.10	1.02E-05
117	-0.10	3.05E-04	1807	0.10	1.14E-05	3703	-0.10	7.29E-07
130	-0.10	4.29E-04	1808	0.10	3.05E-03	3708	-0.10	3.60E-03
131	-0.10	6.72E-04	1819	-0.10	1.08E-10	3710	0.10	6.29E-03
132	0.10	9.86E-07	1824	-0.10	3.92E-03	3722	0.10	6.54E-03
133	0.10	4.71E-04	1825	0.10	1.05E-04	3731	0.10	7.48E-04
135	0.10	1.51E-03	1837	0.10	8.43E-07	3745	-0.10	1.10E-05
152	0.20	2.61E-06	1856	-0.10	3.07E-04	3754	0.10	4.15E-03
155	-0.10	1.76E-07	1857	-0.10	6.66E-03	3757	0.10	6.66E-04
156	0.10	2.53E-03	1858	-0.10	2.05E-06	3770	-0.10	1.73E-03
157	-0.10	1.95E-03	1863	0.10	2.44E-03	3779	-0.10	5.36E-03
161	0.10	6.88E-03	1865	0.10	8.86E-03	3788	0.10	7.75E-03
162	0.10	4.81E-03	1871	0.10	2.09E-04	3798	0.10	8.45E-04
174	-0.10	7.03E-07	1881	0.10	4.87E-06	3801	-0.10	1.31E-05
175	0.10	2.73E-03	1889	0.10	1.12E-03	3804	0.10	9.52E-03
176	0.10	1.92E-03	1892	0.10	1.49E-03	3808	-0.10	1.39E-03

184	-0.10	1.76E-03	1893	-0.20	5.68E-09	3810	0.10	3.64E-03
192	0.10	3.86E-03	1904	-0.10	2.05E-04	3822	0.10	2.60E-04
198	-0.10	4.90E-09	1905	-0.10	3.52E-04	3824	-0.10	7.25E-05
200	-0.10	1.20E-04	1907	-0.10	2.60E-08	3825	-0.30	2.36E-10
205	0.10	3.95E-05	1924	-0.10	3.69E-04	3839	-0.10	7.86E-06
209	-0.10	4.40E-03	1926	0.10	9.10E-04	3840	-0.10	6.87E-03
220	0.10	2.44E-08	1931	0.10	1.50E-04	3846	0.10	9.14E-03
222	0.10	3.44E-03	1933	0.10	7.42E-05	3851	-0.10	4.54E-03
224	-0.20	6.96E-04	1941	-0.10	3.13E-03	3859	-0.10	2.39E-06
231	-0.10	3.41E-03	1945	-0.10	3.86E-03	3862	-0.10	7.60E-04
233	-0.10	7.28E-04	1947	-0.10	3.16E-03	3865	-0.10	8.39E-03
235	-0.10	3.04E-03	1948	0.10	2.59E-05	3866	-0.10	2.61E-04
242	0.10	3.18E-06	1950	-0.10	2.27E-03	3871	0.10	1.95E-06
250	-0.10	8.95E-05	1956	-0.10	2.86E-06	3883	0.10	8.83E-03
251	0.10	2.81E-03	1962	-0.10	1.17E-05	3885	-0.10	2.94E-06
261	-0.10	6.24E-05	1964	-0.10	3.72E-04	3886	0.10	6.43E-06
263	-0.10	1.48E-04	1977	-0.10	1.78E-03	3891	-0.10	1.07E-05
270	-0.10	4.88E-03	1990	0.10	5.43E-03	3895	0.10	4.17E-03
272	-0.10	1.28E-03	1993	-0.10	3.35E-03	3915	-0.10	2.09E-07
280	-0.10	5.32E-03	1996	-0.10	4.96E-05	3919	0.20	4.17E-04
283	0.10	3.90E-04	1999	-0.10	7.25E-09	3929	-0.10	4.78E-04
284	0.10	3.98E-04	2004	-0.10	1.28E-03	3930	-0.10	1.51E-03
290	-0.10	1.44E-03	2009	0.10	2.65E-03	3933	0.10	9.49E-07
299	0.10	1.87E-04	2014	-0.20	6.56E-06	3937	-0.10	6.01E-03
303	0.10	4.94E-06	2015	-0.20	7.27E-06	3946	-0.10	1.05E-04
309	0.10	7.02E-04	2026	-0.10	5.39E-04	3950	-0.10	2.08E-06
312	0.10	5.32E-04	2037	0.10	3.90E-05	3951	-0.10	1.86E-06
398								
314	0.10	1.48E-03	2040	-0.10	3.17E-05	3963	0.10	1.58E-03
315	-0.10	7.77E-05	2044	-0.10	1.24E-07	3965	-0.10	1.03E-03
316	-0.10	1.64E-03	2053	-0.20	4.21E-12	3969	0.10	1.51E-07
317	0.10	5.70E-05	2056	0.10	5.66E-03	3972	-0.10	6.70E-03
321	-0.10	1.18E-03	2057	-0.10	1.19E-06	3975	-0.10	1.34E-07
330	0.10	7.16E-03	2060	-0.10	8.65E-03	3978	-0.10	1.12E-03
333	-0.10	7.95E-04	2061	-0.10	5.00E-03	3987	0.10	9.03E-06
334	-0.10	5.73E-03	2084	0.10	4.44E-04	3988	-0.10	3.06E-03
336	0.10	6.68E-03	2090	0.10	1.59E-06	3989	-0.10	3.41E-05
337	0.10	1.87E-04	2102	0.10	2.36E-04	3992	-0.10	3.50E-03

339	-0.20	6.22E-04	2105	-0.10	7.68E-03	3994	-0.10	6.21E-04
347	-0.10	1.00E-03	2110	0.10	3.44E-04	4018	0.20	6.04E-05
353	-0.10	6.80E-05	2120	-0.10	2.27E-04	4019	0.20	5.12E-05
359	-0.10	4.95E-04	2126	-0.10	9.28E-04	4022	-0.10	2.48E-03
366	-0.10	2.18E-04	2128	-0.10	2.89E-05	4038	0.10	3.83E-11
367	-0.10	1.34E-05	2130	-0.10	3.57E-03	4040	0.10	3.87E-08
370	-0.10	2.53E-06	2134	0.10	1.76E-04	4041	-0.10	5.49E-03
373	-0.20	7.90E-04	2136	0.10	3.04E-03	4042	0.10	3.60E-06
376	0.10	4.97E-03	2137	0.10	5.13E-04	4043	0.10	1.68E-04
378	0.10	2.41E-05	2140	0.10	9.52E-05	4053	-0.10	7.07E-05
380	-0.10	2.49E-04	2142	-0.10	5.72E-03	4054	0.20	7.89E-10
385	-0.10	9.49E-04	2144	-0.10	3.91E-03	4060	0.10	9.40E-03
395	0.10	2.64E-03	2145	0.10	4.06E-07	4061	0.10	9.41E-03
409	-0.10	1.73E-03	2146	0.10	1.39E-04	4075	0.10	3.73E-03
410	-0.10	3.93E-03	2155	-0.10	3.93E-03	4081	-0.10	9.28E-03
411	-0.10	4.39E-03	2156	-0.10	4.54E-03	4091	0.20	8.71E-03
425	0.10	1.39E-03	2162	0.10	2.08E-04	4100	0.10	1.11E-05
426	-0.10	4.35E-03	2171	-0.10	1.40E-03	4106	0.20	1.77E-19
438	-0.20	7.33E-12	2176	-0.10	8.29E-04	4112	-0.10	3.47E-03
447	0.10	3.97E-05	2177	0.10	6.41E-03	4119	-0.10	6.05E-03
457	-0.10	7.63E-04	2193	-0.10	4.30E-04	4128	-0.10	1.05E-04
467	0.10	9.11E-03	2194	-0.10	3.61E-04	4144	-0.10	8.55E-03
470	0.10	5.37E-03	2195	0.10	4.86E-03	4149	-0.10	2.06E-04
472	-0.10	2.65E-03	2201	-0.10	5.83E-06	4153	-0.10	1.33E-06
488	0.10	4.19E-03	2211	-0.10	1.07E-05	4156	-0.10	1.18E-03
498	-0.10	1.12E-04	2217	-0.10	8.91E-05	4163	0.20	1.45E-07
499	-0.10	4.67E-07	2218	-0.10	7.95E-09	4179	0.10	2.02E-04
501	-0.10	2.59E-03	2219	-0.10	1.38E-03	4182	-0.10	3.68E-05
502	-0.10	8.86E-03	2224	-0.10	7.48E-05	4184	-0.10	1.75E-03
509	-0.10	4.12E-04	2230	-0.20	4.86E-03	4185	-0.10	2.31E-04
513	-0.10	1.21E-03	2239	0.00	7.52E-03	4187	-0.10	2.37E-06
517	-0.10	6.71E-07	2242	-0.10	6.86E-05	4188	0.10	6.66E-03
518	0.10	1.08E-04	2250	-0.10	9.86E-03	4196	0.10	1.54E-04
535	-0.10	5.50E-03	2267	-0.10	3.99E-05	4197	-0.10	4.41E-04
537	-0.10	3.42E-03	2268	-0.10	8.11E-03	4199	0.10	4.56E-03
541	-0.10	1.48E-04	2271	0.10	1.29E-07	4202	0.10	7.13E-03
544	0.10	1.47E-06	2284	0.10	6.26E-03	4203	-0.10	1.24E-07
554	0.10	6.30E-04	2293	-0.10	4.96E-09	4205	-0.10	7.84E-04

563	0.10	4.25E-05	2294	-0.10	2.68E-09	4211	-0.10	3.68E-05
565	-0.10	1.86E-03	2298	-0.10	9.96E-06	4212	0.10	3.17E-08
570	0.10	8.01E-04	2315	0.10	1.07E-04	4231	-0.10	1.97E-11
571	0.10	7.20E-03	2316	0.10	6.59E-03	4232	0.10	2.20E-03
578	-0.10	1.47E-07	2317	0.10	2.72E-04	4236	-0.10	3.09E-04
586	0.10	1.51E-06	2318	0.10	9.74E-04	4242	0.10	8.92E-03
597	-0.10	2.07E-05	2325	-0.10	8.84E-04	4244	0.10	3.54E-03
598	-0.10	2.33E-03	2328	-0.10	1.23E-03	4245	0.10	1.39E-03
607	-0.10	1.23E-07	2336	-0.10	7.41E-03	4246	-0.10	3.36E-03
617	0.10	4.74E-06	2338	-0.10	5.91E-03	4252	0.10	5.87E-05
620	0.10	3.13E-04	2341	-0.10	6.60E-03	4264	-0.10	4.42E-03
621	-0.10	4.51E-04	2344	0.10	3.02E-05	4278	0.10	6.18E-03
624	-0.10	1.34E-07	2355	-0.10	1.04E-04	4281	0.10	9.02E-09
629	-0.10	4.18E-03	2357	0.10	9.01E-03	4282	0.10	3.14E-05
637	0.10	1.29E-03	2364	-0.10	3.61E-03	4285	0.10	9.64E-03
638	0.10	3.77E-03	2366	-0.10	1.23E-03	4297	-0.10	1.19E-03
399								
642	0.10	4.26E-03	2373	0.10	9.82E-03	4306	0.10	4.15E-04
643	0.10	4.29E-11	2379	-0.10	5.15E-08	4313	-0.10	7.22E-03
645	-0.10	2.09E-03	2398	0.10	2.12E-03	4314	-0.10	1.06E-10
655	-0.10	5.42E-03	2405	-0.10	2.53E-06	4321	0.20	1.19E-09
673	0.10	1.52E-03	2406	-0.10	7.16E-10	4327	0.10	4.37E-04
678	0.10	3.29E-07	2410	0.10	2.67E-04	4328	-0.10	2.28E-04
690	-0.10	1.55E-03	2412	0.10	3.93E-03	4334	0.10	1.03E-04
708	0.10	1.49E-03	2413	-0.10	4.77E-03	4336	-0.10	1.97E-06
711	-0.10	2.43E-03	2414	-0.10	3.25E-03	4341	-0.20	1.15E-09
714	-0.10	4.70E-03	2416	0.10	2.96E-03	4343	-0.10	9.55E-06
718	0.10	8.73E-06	2418	0.10	1.69E-03	4344	0.20	2.86E-05
741	-0.20	9.86E-04	2425	0.10	2.34E-04	4379	0.10	5.54E-03
742	-0.20	1.12E-03	2426	0.10	1.85E-04	4380	-0.10	6.70E-03
754	-0.10	4.42E-03	2446	-0.10	1.48E-03	4385	0.10	1.70E-10
757	-0.10	3.56E-03	2448	-0.10	2.57E-08	4386	0.10	4.02E-05
766	-0.10	4.66E-11	2453	-0.10	1.50E-03	4389	-0.10	1.34E-03
773	0.10	6.04E-03	2461	0.10	2.27E-04	4390	0.10	8.09E-03
776	-0.10	1.16E-04	2463	-0.10	7.53E-04	4391	0.10	6.80E-03
785	-0.10	1.33E-04	2465	-0.10	9.98E-04	4396	-0.20	1.04E-15
790	0.10	1.76E-06	2473	0.10	2.17E-03	4398	0.10	1.47E-03
806	-0.20	8.48E-08	2486	0.10	7.76E-04	4404	0.20	3.44E-05

809	0.10	1.06E-03	2497	0.10	8.37E-07	4417	-0.10	8.50E-04
824	-0.10	6.81E-04	2500	-0.10	3.87E-03	4422	0.10	2.72E-03
829	-0.10	2.08E-07	2502	-0.10	8.30E-03	4425	0.10	1.28E-03
833	0.20	1.88E-04	2505	0.10	3.92E-04	4430	-0.10	8.97E-06
838	-0.10	1.49E-03	2508	0.10	1.73E-08	4445	-0.10	2.36E-06
839	-0.10	9.90E-04	2514	0.10	2.78E-03	4450	0.10	5.00E-06
842	-0.10	9.01E-05	2516	0.10	2.62E-06	4454	0.10	1.14E-03
843	-0.10	1.85E-06	2524	0.10	1.05E-03	4458	0.10	7.29E-03
844	-0.10	2.76E-05	2525	0.10	1.09E-03	4470	-0.10	7.49E-03
849	0.10	9.20E-03	2532	-0.10	1.49E-03	4472	0.10	6.66E-05
850	-0.10	3.12E-03	2542	0.20	6.15E-05	4477	0.10	2.68E-04
856	-0.20	6.16E-13	2545	0.10	4.76E-04	4486	-0.10	6.82E-03
858	0.10	9.86E-06	2547	-0.10	3.71E-05	4487	0.10	2.74E-05
860	0.10	4.88E-04	2550	0.10	4.44E-03	4489	0.10	6.82E-07
862	0.10	4.02E-03	2556	0.10	3.07E-03	4501	-0.10	2.63E-05
868	-0.10	7.56E-04	2559	0.20	8.86E-03	4503	-0.10	4.73E-03
883	-0.10	6.89E-03	2568	0.10	3.54E-03	4508	0.10	2.04E-04
886	0.10	3.12E-03	2570	0.10	3.46E-03	4512	0.10	2.00E-07
887	0.10	2.13E-05	2582	0.10	8.19E-03	4530	0.10	2.88E-03
893	0.10	2.86E-04	2583	-0.10	8.86E-03	4536	-0.10	6.71E-03
901	-0.10	1.09E-09	2589	-0.10	8.26E-03	4537	0.10	3.47E-03
905	0.10	1.02E-03	2595	0.10	9.30E-04	4542	-0.10	1.57E-03
912	-0.10	5.42E-04	2597	-0.20	1.27E-05	4543	-0.20	4.21E-06
913	-0.10	1.11E-03	2607	0.10	1.22E-07	4545	0.10	2.41E-04
922	-0.10	5.96E-03	2608	-0.10	9.40E-04	4554	-0.10	1.11E-04
923	-0.10	5.25E-03	2610	0.10	2.06E-03	4558	0.10	1.18E-04
937	0.10	3.83E-03	2613	0.10	4.56E-03	4559	0.10	1.46E-04
940	-0.10	1.54E-03	2614	-0.10	9.13E-07	4562	-0.10	5.86E-03
945	-0.10	7.23E-05	2615	-0.10	2.81E-03	4565	-0.10	1.61E-06
950	0.00	4.01E-03	2624	0.10	5.77E-03	4568	0.00	4.57E-03
954	-0.10	2.17E-04	2626	-0.10	3.68E-04	4570	0.10	2.30E-03
973	0.10	7.83E-03	2629	0.10	2.92E-03	4571	0.10	2.21E-03
974	-0.10	5.59E-05	2636	0.10	2.06E-03	4576	-0.10	1.58E-03
977	-0.20	6.69E-09	2642	-0.10	4.51E-03	4578	0.10	6.33E-03
979	-0.10	9.90E-09	2646	-0.10	2.35E-03	4579	-0.10	1.70E-03
983	0.20	5.26E-05	2647	-0.10	5.89E-08	4582	0.10	5.59E-03
999	0.10	1.92E-05	2657	-0.10	4.27E-03	4595	0.10	9.27E-04
1001	-0.10	1.34E-03	2664	0.10	3.56E-03	4605	-0.10	9.91E-06

1006	0.10	1.87E-04	2665	0.10	3.49E-03	4606	0.10	1.26E-04
1008	0.20	2.68E-04	2667	0.10	2.30E-04	4607	0.10	2.05E-04
1010	0.10	1.93E-08	2673	-0.10	9.32E-04	4613	-0.10	8.63E-04
1023	-0.10	7.82E-07	2677	-0.10	7.50E-04	4622	0.10	5.27E-03
1027	0.10	4.57E-04	2688	0.10	2.65E-08	4626	-0.10	1.10E-03
400								
1033	0.10	1.50E-07	2692	-0.10	3.29E-06	4627	0.10	3.70E-03
1036	-0.10	6.39E-06	2702	0.10	1.02E-04	4644	-0.10	4.21E-05
1043	0.10	2.27E-04	2705	-0.10	3.65E-05	4646	0.10	1.24E-04
1044	0.10	7.46E-04	2706	-0.10	9.80E-03	4664	-0.10	2.55E-09
1049	0.10	5.77E-07	2712	-0.10	6.51E-07	4669	-0.10	6.26E-03
1054	-0.10	3.02E-03	2713	0.10	2.01E-05	4671	0.10	1.36E-03
1055	0.10	1.54E-03	2726	-0.10	9.31E-07	4678	-0.10	3.07E-04
1056	-0.10	3.05E-04	2734	-0.10	1.19E-03	4683	0.10	6.50E-03
1058	-0.10	1.18E-03	2740	-0.10	3.48E-05	4694	0.10	1.89E-03
1065	-0.10	6.31E-03	2742	-0.20	8.44E-05	4695	-0.10	4.24E-04
1072	0.10	5.41E-03	2754	-0.10	2.49E-06	4696	-0.10	9.46E-04
1089	0.10	7.71E-05	2769	0.10	2.09E-03	4699	-0.10	1.10E-08
1094	-0.10	3.66E-03	2782	0.00	1.76E-03	4703	-0.10	3.60E-03
1100	0.10	4.98E-03	2791	-0.10	3.59E-04	4711	0.10	2.60E-04
1105	0.10	9.06E-03	2792	-0.10	8.41E-05	4723	-0.10	2.14E-03
1107	0.20	1.42E-03	2795	-0.10	1.33E-06	4724	-0.10	1.71E-06
1109	-0.10	2.53E-03	2801	-0.10	5.97E-05	4728	-0.10	4.86E-04
1113	0.10	9.45E-05	2805	0.20	2.43E-04	4731	-0.10	2.74E-03
1123	-0.10	1.92E-07	2815	0.10	7.59E-03	4732	-0.10	2.83E-12
1128	-0.10	4.61E-03	2821	-0.10	1.19E-03	4739	0.10	3.24E-03
1129	-0.10	5.48E-03	2822	-0.10	1.05E-04	4740	0.10	4.40E-03
1139	-0.10	8.38E-04	2839	0.10	3.02E-04	4746	0.10	9.33E-03
1140	-0.10	2.47E-03	2843	0.10	1.26E-03	4752	-0.10	4.29E-06
1144	0.10	2.03E-06	2844	-0.10	9.84E-03	4753	0.10	3.15E-03
1145	-0.10	1.72E-03	2853	-0.10	1.38E-04	4756	0.10	4.57E-06
1146	0.10	2.86E-06	2859	-0.10	2.68E-04	4758	0.10	7.11E-04
1163	-0.20	3.04E-07	2872	0.10	1.43E-05	4765	0.20	4.03E-12
1167	0.10	1.35E-06	2878	-0.10	1.32E-06	4775	0.10	2.94E-03
1170	0.00	8.83E-03	2879	-0.10	4.93E-04	4777	-0.10	1.29E-03
1176	-0.10	2.73E-03	2882	0.10	6.79E-05	4778	0.10	8.86E-03
1182	-0.10	1.76E-03	2888	-0.10	8.50E-03	4781	-0.10	3.09E-04
1185	0.10	3.63E-03	2899	0.20	3.28E-04	4788	0.10	2.70E-03

1189	0.10	9.52E-04	2910	0.10	2.89E-07	4800	0.10	5.05E-04
1193	-0.10	6.57E-04	2933	-0.10	1.14E-05	4802	0.10	5.63E-04
1194	-0.10	7.70E-05	2952	0.10	6.91E-03	4803	0.10	2.72E-04
1213	0.10	5.29E-07	2960	-0.10	9.70E-07	4807	-0.10	4.84E-03
1214	0.10	2.69E-03	2962	-0.10	9.99E-06	4832	-0.10	1.74E-06
1224	0.10	7.70E-05	2987	0.10	2.24E-03	4852	-0.20	3.84E-08
1241	-0.20	6.84E-04	2988	0.10	2.42E-03	4854	0.10	1.14E-09
1242	-0.10	8.91E-04	2995	-0.10	1.66E-05	4857	0.10	8.16E-03
1256	-0.10	5.52E-03	3008	-0.10	8.00E-03	4859	0.10	2.51E-08
1260	0.10	7.04E-06	3018	0.10	4.20E-03	4864	0.10	2.31E-04
1265	-0.10	1.60E-04	3022	-0.10	1.14E-04	4868	0.10	6.46E-03
1268	0.10	4.04E-04	3029	-0.10	4.55E-03	4877	0.20	1.09E-11
1274	0.10	7.21E-05	3031	-0.10	4.96E-05	4882	0.10	2.87E-05
1279	-0.10	1.15E-03	3036	-0.10	3.20E-03	4885	-0.10	6.78E-06
1286	0.10	8.03E-03	3037	0.10	3.77E-08	4886	-0.10	1.07E-03
1291	-0.10	3.73E-11	3051	-0.10	6.83E-03	4887	0.10	2.56E-06
1295	-0.10	2.68E-03	3053	-0.10	1.33E-05	4890	0.20	1.84E-05
1297	-0.10	6.69E-03	3062	-0.10	6.82E-06	4906	0.10	4.03E-06
1309	-0.10	7.53E-03	3068	-0.10	7.53E-04	4917	-0.10	5.18E-08
1317	-0.10	1.91E-03	3074	-0.10	1.00E-04	4927	0.10	7.86E-08
1319	-0.10	1.36E-03	3082	-0.10	5.32E-03	4938	0.10	5.44E-05
1328	-0.10	1.01E-03	3092	-0.20	9.18E-03	4941	-0.20	2.01E-06
1332	-0.10	1.64E-03	3111	0.10	6.16E-04	4952	-0.10	7.51E-04
1335	-0.10	8.34E-04	3113	-0.10	1.42E-03	4956	-0.10	5.95E-03
1336	-0.10	1.16E-03	3115	-0.10	3.63E-04	4966	-0.10	3.79E-06
1346	-0.10	2.79E-04	3120	-0.10	6.34E-05	4978	0.20	5.15E-03
1349	0.10	9.80E-03	3127	0.10	3.76E-03	4982	-0.10	4.00E-07
1351	-0.10	5.06E-10	3131	-0.10	5.05E-03	4991	0.10	8.23E-06
1355	-0.10	1.28E-04	3140	-0.10	5.55E-04	4996	0.10	9.08E-03
1356	-0.10	1.76E-05	3141	-0.10	5.07E-05	5011	0.20	1.08E-03
1360	0.10	6.15E-03	3143	-0.10	7.91E-05	5013	-0.10	1.16E-03
1362	0.10	8.07E-03	3158	0.10	4.35E-03	5016	-0.10	1.06E-05
401								
1383	-0.10	1.34E-04	3168	0.10	3.31E-04	5019	-0.20	4.40E-04
1391	-0.10	1.11E-03	3169	-0.10	2.63E-05	5020	-0.10	2.66E-03
1393	-0.10	4.49E-03	3172	-0.20	1.18E-04	5026	0.10	2.00E-03
1399	0.10	1.79E-03	3180	0.10	1.63E-03	5046	-0.10	8.46E-07
1402	0.10	2.84E-03	3181	-0.10	5.07E-03	5047	-0.20	1.13E-03

1404	0.10	8.58E-03	3182	0.10	2.24E-04	5060	-0.10	6.48E-04
1414	-0.10	3.37E-03	3184	-0.10	4.30E-04	5079	0.10	6.93E-03
1419	0.10	1.07E-03	3198	-0.10	2.27E-03	5080	0.10	8.64E-03
1420	0.10	2.59E-04	3200	-0.10	1.16E-03	5086	-0.10	4.10E-05
1421	0.00	4.87E-03	3206	-0.10	6.77E-03	5098	-0.10	1.47E-04
1431	0.10	5.71E-03	3213	0.10	2.89E-03	5101	-0.10	1.50E-08
1434	-0.10	8.56E-05	3220	-0.10	2.28E-03	5108	-0.10	2.07E-03
1439	-0.10	8.12E-03	3222	-0.10	1.56E-03	5111	-0.10	9.19E-03
1442	-0.20	5.50E-13	3267	0.10	3.33E-04	5118	0.10	3.99E-05
1450	-0.10	2.06E-03	3272	-0.10	8.97E-03	5121	-0.10	6.00E-06
1464	0.10	5.99E-05	3282	-0.10	3.55E-03	5122	0.10	5.22E-04
1467	0.20	6.72E-12	3283	-0.10	1.34E-03	5124	0.10	3.66E-06
1468	-0.10	9.93E-03	3288	-0.10	9.85E-03	5132	-0.10	5.27E-04
1478	-0.10	4.81E-04	3302	-0.10	7.63E-05	5134	0.10	1.17E-04
1480	-0.20	8.55E-04	3303	-0.10	8.93E-05	5141	0.10	8.76E-03
1494	-0.10	5.35E-04	3316	-0.10	9.87E-04	5169	-0.10	2.57E-03
1504	-0.10	2.22E-06	3317	-0.10	3.44E-09	5186	-0.10	2.19E-04
1510	-0.10	9.62E-04	3341	-0.10	1.73E-05	5193	-0.10	9.50E-04
1516	-0.10	2.90E-03	3367	-0.10	2.17E-03	5197	0.10	6.16E-05
1518	0.10	8.24E-03	3368	0.10	1.93E-03	5198	0.10	3.37E-05
1523	-0.10	8.21E-04	3391	0.10	3.59E-03	5201	-0.10	7.30E-03
1526	0.10	1.21E-06	3394	-0.20	2.08E-06	5220	-0.10	8.08E-11
1533	-0.10	5.67E-05	3395	-0.10	9.69E-03	5229	0.10	1.26E-04
1550	-0.10	2.35E-04	3404	-0.10	9.70E-05	5230	-0.20	5.67E-13
1551	0.10	6.26E-05	3411	-0.10	4.97E-04	5234	-0.10	2.11E-03
1562	0.10	8.84E-03	3416	-0.10	1.61E-07	5237	-0.10	1.22E-03
1566	-0.10	2.67E-04	3417	-0.10	2.18E-03	5258	0.20	2.91E-03
1569	0.10	1.19E-05	3418	-0.10	8.58E-04	5259	0.10	1.77E-03
1570	0.10	8.64E-06	3423	0.10	7.20E-04	5261	0.10	1.57E-03
1571	0.10	6.65E-06	3433	-0.10	1.87E-03	5278	-0.10	5.83E-05
1575	0.10	6.55E-03	3435	-0.20	2.20E-05	5283	-0.10	1.46E-05
1579	-0.10	1.62E-03	3436	-0.10	2.99E-03	5305	0.10	5.41E-03
1580	0.10	1.75E-03	3437	-0.10	5.70E-04	5317	-0.10	4.68E-05
1583	0.20	1.66E-05	3440	-0.10	9.08E-03	5320	-0.10	2.23E-03
1596	-0.10	8.05E-03	3445	-0.10	8.31E-04	5321	-0.10	9.05E-04
1600	-0.20	5.82E-04	3463	-0.10	2.51E-03	5323	0.10	1.40E-06
1604	-0.10	5.70E-03	3466	-0.10	2.60E-05	5331	0.10	9.72E-04
1605	-0.10	9.92E-03	3467	-0.10	3.32E-04	5338	0.10	3.58E-04

1612	0.10	6.62E-06	3468	-0.10	1.30E-04	5343	0.20	9.66E-11
1613	0.10	2.29E-03	3484	0.10	5.63E-09	5344	0.10	3.07E-05
1618	-0.10	4.24E-03	3489	-0.10	3.84E-06	5345	0.10	3.35E-03
1623	-0.10	1.79E-08	3490	-0.10	1.01E-08	5348	-0.10	3.30E-04
1625	0.10	7.77E-06	3498	-0.10	4.50E-05	5355	-0.10	8.49E-03
1628	0.10	9.08E-05	3499	-0.10	9.89E-04	5367	0.10	3.46E-08
1629	0.10	1.02E-04	3506	0.10	1.71E-05	5368	-0.10	5.83E-04
1635	0.10	9.87E-03	3511	-0.10	1.40E-03	5376	0.10	5.43E-03
1637	0.20	8.92E-11	3519	0.10	8.13E-03	5378	-0.10	3.61E-03
1639	0.10	4.05E-03	3521	0.10	1.60E-05	5401	-0.10	1.30E-04
1650	-0.10	9.18E-04	3531	-0.20	3.48E-12	5417	0.10	3.50E-06
1652	-0.10	6.66E-03	3533	-0.10	1.83E-04	5428	0.10	3.67E-04
1654	0.10	9.97E-03	3541	-0.10	3.25E-03	5429	0.10	4.13E-03
1656	-0.10	1.18E-04	3546	-0.10	4.39E-04	5431	0.10	9.39E-04
1668	-0.10	2.95E-07	3548	0.10	1.12E-03	5437	-0.10	2.68E-04
1669	-0.10	6.20E-04	3558	0.10	9.31E-04	5438	-0.10	1.90E-05
1671	0.10	2.77E-03	3559	0.10	8.07E-03	5462	-0.10	1.65E-04
1677	0.10	3.75E-04	3560	0.10	2.55E-04	5470	0.10	4.12E-03
1686	-0.10	2.57E-04	3565	-0.10	6.07E-04	5480	-0.10	1.06E-07
1702	-0.10	5.85E-04	3576	0.10	1.64E-03	5483	-0.10	5.94E-05
14114	-0.10	6.17E-03	13609	-0.10	1.39E-03	13027	0.10	4.70E-04
402								
14125	0.10	9.94E-03	13611	0.20	2.44E-11	13083	0.10	1.48E-04
14130	0.10	2.71E-05	13612	0.10	4.03E-04	13085	-0.10	2.40E-04
14131	-0.10	6.32E-03	13618	0.10	1.68E-03	13091	-0.10	5.63E-06
14133	-0.10	8.61E-03	13622	-0.10	1.19E-03	13097	-0.10	9.01E-07
14144	0.10	4.34E-06	13632	-0.10	6.71E-03	13105	-0.10	9.74E-05
14153	-0.10	2.61E-03	13664	-0.10	5.15E-04	13107	0.10	1.23E-04
14154	0.10	1.04E-03	13700	0.10	1.73E-03	13109	0.10	2.70E-04
14164	0.10	1.71E-03	13711	-0.10	2.38E-03	13111	0.10	1.94E-05
14170	0.10	1.27E-05	13717	-0.10	5.43E-03	13122	-0.10	6.98E-03
14191	0.10	1.72E-05	13736	-0.20	4.82E-04	13123	0.10	7.09E-03
14195	0.10	4.78E-03	13738	-0.10	4.96E-04	13126	0.10	8.48E-06
14198	0.10	1.75E-03	13747	-0.10	2.47E-03	13131	0.10	2.59E-03
14219	-0.10	2.74E-03	13760	0.10	2.62E-03	13132	-0.10	1.79E-04
14226	-0.10	3.03E-04	13761	-0.10	3.13E-03	13139	-0.10	1.47E-07
14227	-0.10	4.61E-03	13764	-0.10	7.01E-06	13140	-0.10	7.78E-03
14228	-0.10	3.88E-05	13767	0.10	5.98E-03	13154	0.10	1.58E-03

14242	-0.10	1.17E-03	13769	0.20	2.95E-05	13161	0.10	2.90E-06
14260	-0.10	2.04E-04	13788	-0.10	2.56E-03	13173	-0.10	1.18E-04
14262	-0.10	4.78E-03	13795	0.10	9.39E-04	13174	0.10	3.09E-05
14273	0.10	4.31E-04	13798	-0.10	1.97E-04	13175	0.10	6.92E-03
14276	-0.10	8.23E-04	13805	-0.10	7.31E-06	13184	0.10	1.87E-04
14296	-0.10	3.01E-07	13809	0.10	1.43E-03	13199	0.20	1.59E-09
14297	0.10	7.79E-07	13832	-0.10	9.07E-04	13213	-0.10	7.25E-03
14298	0.20	1.28E-09	13834	0.10	1.98E-04	13214	-0.10	9.66E-03
14299	-0.10	9.21E-04	13837	-0.10	3.28E-03	13230	0.10	1.00E-03
14300	0.10	3.17E-07	13843	0.10	2.88E-03	13238	-0.10	5.31E-03
14306	0.10	6.55E-03	13847	0.10	5.64E-05	13250	-0.10	5.12E-05
14307	-0.10	1.01E-06	13852	0.10	1.04E-04	13292	-0.20	2.00E-06
14311	-0.10	5.22E-03	13857	-0.10	2.66E-03	13296	-0.10	2.03E-06
14360	-0.10	2.35E-03	13860	0.10	7.85E-03	13300	-0.10	2.71E-05
14371	-0.10	6.63E-03	13867	-0.10	4.19E-03	13308	-0.10	2.10E-03
14379	-0.10	8.24E-03	13885	-0.10	6.27E-03	13328	-0.10	6.97E-04
14391	0.10	3.26E-03	13890	-0.10	5.54E-03	13353	0.10	2.10E-03
14392	0.10	5.48E-03	13900	-0.10	3.58E-03	13361	0.10	3.13E-03
14399	0.10	2.78E-04	13919	0.10	8.28E-03	13363	-0.10	1.41E-04
14413	-0.10	6.82E-03	13920	0.10	6.96E-04	13378	-0.10	8.12E-03
14415	-0.10	2.46E-03	13923	-0.20	1.02E-06	13383	0.20	1.13E-07
14426	0.10	1.80E-03	13926	-0.10	2.18E-03	13392	-0.10	1.44E-03
14430	0.10	5.92E-06	13929	0.10	3.35E-05	13394	0.10	2.68E-05
14436	-0.10	1.74E-07	13958	-0.10	6.32E-03	13403	-0.10	2.05E-04
14441	-0.10	2.75E-04	13959	0.10	3.56E-03	13412	0.10	1.38E-05
14451	-0.10	4.79E-04	13963	0.10	5.11E-06	13435	0.10	6.10E-03
14460	0.10	1.26E-05	13977	-0.10	4.84E-04	13447	-0.10	3.36E-04
14474	0.10	3.82E-03	13986	0.10	1.88E-03	13455	-0.10	3.07E-07
14484	-0.10	7.79E-05	13987	-0.10	3.35E-03	13461	0.10	5.09E-04
14491	0.10	6.77E-04	13989	-0.10	1.78E-03	13475	-0.10	3.05E-03
14498	0.10	4.33E-03	13998	-0.20	1.17E-09	13476	-0.10	3.05E-04
14508	0.20	7.10E-13	14009	0.10	1.36E-03	13479	-0.10	1.50E-06
14514	0.10	1.46E-03	14014	-0.10	9.00E-04	13485	-0.10	4.22E-05
14516	-0.10	7.30E-05	14015	0.10	1.14E-03	13495	-0.10	2.34E-06
14519	0.30	2.29E-07	14019	0.10	1.35E-03	13497	-0.10	2.22E-04
14523	-0.10	1.66E-04	14025	-0.10	5.50E-05	13512	-0.10	1.29E-04
14532	0.10	2.65E-03	14026	0.10	1.32E-04	13526	0.10	4.20E-04
14539	0.10	2.47E-03	14031	-0.10	1.66E-04	13533	0.10	8.96E-03

14615	0.10	1.94E-09
14616	0.10	4.50E-03
14630	0.10	1.93E-03
14641	0.10	5.99E-08
14649	0.10	6.45E-06
14651	-0.10	6.86E-05
14669	-0.10	2.51E-06
14672	-0.10	1.07E-04
14674	-0.10	9.71E-04
14679	-0.10	4.10E-03
403		
14688	0.10	4.93E-06
14695	-0.10	4.87E-04
14699	-0.10	3.10E-06
14701	0.10	3.33E-04
14705	0.10	2.35E-04
14708	0.10	4.44E-06
14710	0.10	6.21E-03
14724	0.10	2.17E-04
14725	0.10	3.12E-04
14739	-0.10	4.34E-06
14748	-0.10	6.14E-03
14756	-0.10	1.51E-08
14773	0.10	6.44E-03
14777	0.10	2.09E-04
14778	0.10	2.57E-04
14781	-0.10	7.27E-03
14783	-0.10	2.90E-04
14800	-0.10	5.39E-03
14801	0.10	4.95E-09
14808	0.10	1.61E-05
14811	-0.10	5.11E-03
14831	0.10	1.37E-04
14839	0.10	3.70E-03
14841	0.10	1.59E-03
14844	-0.10	1.52E-03
14860	-0.10	7.64E-04
14866	0.10	1.79E-07

14049	0.10	8.83E-03
14052	0.10	1.94E-03
14053	-0.10	7.26E-05
14057	-0.10	4.15E-03
14061	0.10	4.49E-04
14079	-0.10	6.10E-07
14093	-0.10	2.08E-03
14094	-0.10	2.13E-04
14106	0.10	5.79E-06
15303	-0.10	2.15E-04
15307	0.10	2.71E-07
15321	0.10	3.99E-03
15328	-0.20	1.11E-03
15368	0.10	1.73E-03
109	-0.08	5.00E-02
584	0.09	5.00E-02
604	-0.03	5.00E-02
689	-0.23	5.00E-02
771	-0.04	5.00E-02
1083	0.04	5.00E-02
1220	0.02	5.00E-02
1667	-0.07	5.00E-02
1708	-0.04	5.00E-02
2241	0.05	5.00E-02
2498	0.03	5.00E-02
3148	-0.06	5.00E-02
3187	-0.02	5.00E-02
3243	0.05	5.00E-02
3473	0.07	5.00E-02
3551	0.03	5.00E-02
3741	-0.12	5.00E-02
4114	-0.09	5.00E-02
4225	-0.04	5.00E-02
4466	-0.11	5.00E-02
4563	0.04	5.00E-02
4593	-0.11	5.00E-02
4668	-0.06	5.00E-02

13551	-0.10	8.45E-03
13552	0.10	8.57E-09
13565	0.10	4.47E-04
13567	0.10	7.60E-05
13578	-0.10	2.95E-05
13592	0.10	1.30E-03
13594	0.10	2.23E-03
13607	0.10	1.29E-03
13608	0.10	1.14E-03
13284	0.04	5.00E-02
13288	0.20	5.00E-02
13314	0.11	5.00E-02
13531	0.18	5.00E-02
13573	0.29	5.00E-02
13582	-0.03	5.00E-02
13692	-0.33	5.00E-02
14046	0.17	5.00E-02
14499	0.12	5.00E-02
14910	-0.06	5.00E-02
15067	0.15	5.00E-02
15070	0.13	5.00E-02
15326	-0.24	5.00E-02
15092	0.10	5.00E-04
15104	-0.10	9.98E-06
15131	-0.10	2.62E-10
15138	-0.10	2.42E-03
15148	-0.10	8.23E-08
15162	0.10	3.64E-05
15164	-0.10	2.13E-04
15184	0.20	3.30E-12

14883	-0.10	5.34E-04	4701	0.30	5.00E-02	

A	B	C	A	B	C	A	B	C
5489	-0.10	3.78E-03	7331	-0.10	1.02E-04	9276	0.10	2.36E-06
5493	0.10	6.27E-03	7345	-0.10	9.58E-05	9284	-0.10	2.59E-03
5499	-0.10	1.12E-06	7355	-0.10	1.40E-03	9285	0.10	4.15E-05
5501	-0.10	5.14E-09	7356	-0.10	9.10E-05	9300	0.10	4.06E-05
5502	-0.10	2.24E-09	7358	-0.10	9.64E-03	9302	-0.20	5.59E-07
5521	0.10	4.76E-04	7362	0.10	9.75E-05	9303	0.10	4.33E-04
5530	-0.20	1.49E-03	7377	0.10	9.92E-03	9304	0.10	6.14E-09
5534	-0.10	3.24E-03	7380	0.10	2.75E-03	9309	0.10	5.68E-04
5551	-0.10	6.26E-04	7391	0.10	8.63E-06	9322	0.10	2.50E-03
5555	0.10	4.92E-05	7401	-0.10	2.92E-04	9329	0.10	6.71E-04
5557	0.10	5.43E-03	7425	0.10	2.18E-03	9332	0.10	1.35E-05
5558	0.10	3.56E-03	7427	0.10	4.50E-04	9336	0.10	5.15E-03
5560	0.10	9.17E-06	7431	-0.10	1.41E-03	9356	0.10	1.41E-03
5570	-0.10	9.22E-03	7434	-0.10	5.77E-03	9357	0.10	2.23E-03
5575	-0.10	1.42E-03	7437	-0.10	1.39E-06	9361	-0.10	3.02E-06
5577	0.10	8.57E-03	7447	0.10	1.69E-04	9362	-0.10	9.45E-03
5581	0.10	2.78E-03	7448	-0.10	3.15E-03	9364	-0.10	1.74E-03
5585	-0.10	5.22E-03	7460	0.10	1.68E-06	9371	-0.10	1.59E-05
5599	0.10	2.98E-03	7462	-0.10	7.03E-03	9373	-0.10	3.99E-10
5602	-0.10	7.26E-03	7468	0.10	4.72E-04	9375	0.20	7.62E-03
5608	0.10	5.12E-09	7469	-0.10	5.99E-03	9386	-0.10	3.52E-03
5611	0.10	1.34E-05	7481	-0.10	1.12E-05	9393	-0.10	6.29E-03
5613	0.10	5.42E-06	7482	-0.10	5.01E-04	9394	-0.10	2.11E-03
5616	0.10	1.11E-05	7485	-0.10	4.46E-04	9397	0.10	7.15E-10
5619	-0.10	3.54E-03	7489	-0.20	1.10E-06	9402	-0.10	3.53E-03
5624	0.10	4.47E-04	7493	0.10	3.19E-04	9404	0.10	2.07E-03
5632	-0.10	2.34E-06	7506	0.10	1.68E-03	9411	0.10	3.89E-03
5634	0.10	2.45E-04	7508	0.10	4.51E-04	9413	-0.10	2.74E-03
5635	0.10	1.97E-04	7519	-0.10	3.85E-06	9415	-0.10	6.04E-05
5638	0.20	4.15E-05	7524	-0.10	9.32E-05	9422	-0.10	3.73E-03
5645	0.10	7.60E-03	7525	-0.10	6.22E-05	9425	0.10	3.26E-03
5647	-0.10	2.11E-04	7530	0.10	8.69E-04	9477	0.10	2.73E-06
5663	-0.10	7.70E-03	7531	0.10	8.38E-03	9480	-0.10	4.73E-03
5664	-0.10	1.93E-03	7560	0.10	7.55E-04	9486	0.10	1.63E-03
5665	0.10	7.05E-07	7561	-0.10	2.01E-08	9505	0.00	6.33E-03

5670	-0.10	5.21E-09	7573	-0.20	1.15E-08	9507	-0.10	4.70E-07
5679	-0.10	1.36E-03	7577	-0.10	3.84E-04	9508	-0.10	2.95E-08
5680	0.10	2.69E-04	7578	0.10	9.81E-04	9516	-0.10	5.29E-05
5687	-0.10	4.53E-04	7590	0.10	1.67E-03	9517	0.10	1.88E-03
5690	-0.10	9.50E-05	7594	-0.10	1.94E-04	9519	-0.10	4.36E-03
5691	-0.10	1.24E-04	7596	0.10	4.15E-05	9529	-0.10	1.56E-03
5699	0.20	1.67E-09	7597	-0.10	4.92E-03	9533	-0.10	3.67E-04
5703	-0.10	8.51E-03	7601	-0.10	6.07E-03	9534	-0.10	5.44E-04
5711	0.10	8.85E-10	7606	0.10	1.63E-03	9541	-0.10	4.49E-03
5719	0.10	8.96E-05	7612	-0.10	5.85E-03	9543	-0.10	4.19E-05
5723	0.10	7.17E-03	7630	-0.20	2.06E-03	9544	0.10	1.39E-10
5730	-0.20	1.08E-03	7635	0.10	1.19E-06	9552	0.10	9.99E-11
5743	-0.10	5.39E-03	7644	-0.10	1.04E-10	9557	0.10	1.59E-03
5746	0.10	3.24E-07	7651	-0.20	2.92E-03	9558	0.10	1.41E-03
5752	-0.10	6.40E-05	7660	0.10	1.81E-05	9560	-0.10	6.48E-03
5753	0.10	2.40E-03	7661	-0.10	5.66E-03	9582	0.10	4.26E-09
5756	0.10	4.50E-04	7665	-0.10	2.07E-03	9584	-0.10	1.39E-04
5763	-0.10	9.39E-03	7666	0.10	5.38E-03	9607	-0.10	1.22E-04
5765	-0.10	1.06E-04	7677	0.10	2.02E-07	9618	-0.20	2.93E-03
5774	0.20	8.92E-03	7681	0.10	4.97E-03	9619	-0.10	6.91E-05
5775	-0.10	5.46E-03	7686	-0.10	8.87E-03	9626	-0.10	1.85E-04
5781	-0.10	6.30E-03	7688	0.10	1.80E-06	9635	-0.10	3.37E-04
5790	-0.10	4.44E-03	7695	0.10	4.64E-03	9640	0.10	1.27E-04
5793	-0.10	3.71E-05	7702	-0.10	4.30E-03	9641	-0.10	1.12E-06
5796	0.10	7.00E-03	7703	-0.10	2.81E-03	9657	-0.10	7.84E-03
5798	0.10	2.48E-03	7708	-0.10	6.58E-04	9658	0.10	1.25E-05
5814	-0.10	5.33E-03	7714	-0.10	4.16E-03	9670	-0.10	3.61E-06
5818	0.10	8.02E-03	7726	-0.10	7.77E-05	9676	0.10	5.15E-09
5820	-0.10	4.89E-05	7730	-0.10	1.42E-03	9677	0.10	4.94E-03
5821	0.10	6.20E-03	7731	0.10	5.05E-06	9682	0.10	8.17E-04
5825	-0.10	6.17E-03	7732	0.10	6.51E-11	9692	0.10	1.04E-06
5826	-0.10	1.40E-03	7735	-0.10	3.15E-03	9693	0.10	1.29E-04
5831	-0.10	2.96E-04	7742	0.10	3.05E-03	9694	-0.10	5.30E-04
5835	-0.10	4.95E-04	7747	-0.10	4.30E-06	9696	-0.10	4.28E-04
5838	0.10	3.59E-03	7748	0.20	6.53E-03	9701	-0.10	1.54E-03
5841	-0.10	2.09E-03	7755	0.10	5.19E-05	9703	0.10	2.12E-04
5845	-0.10	8.12E-03	7763	-0.10	5.42E-03	9708	0.10	1.61E-04

5846	-0.10	3.31E-04	7777	-0.10	5.64E-03	9718	0.10	1.65E-03
5852	0.20	6.05E-07	7781	0.10	4.89E-04	9719	0.10	4.35E-03
5854	-0.10	8.38E-04	7810	0.10	1.65E-03	9722	0.10	1.00E-02
5857	-0.20	3.25E-13	7821	0.10	2.21E-03	9723	-0.10	2.05E-03
5870	-0.10	3.60E-04	7825	0.10	1.19E-03	9738	0.10	3.51E-05
5876	-0.10	2.55E-08	7831	-0.10	1.10E-03	9744	0.10	4.28E-03
5880	0.10	8.69E-05	7834	-0.10	1.46E-04	9747	-0.10	6.72E-03
5890	-0.10	1.18E-03	7841	-0.10	7.55E-04	9750	-0.10	1.23E-08
5896	0.10	6.86E-03	7844	0.10	5.86E-04	9753	-0.10	7.57E-03
5898	-0.10	3.76E-03	7857	0.10	2.31E-04	9755	-0.10	3.01E-07
5902	0.10	9.02E-05	7859	-0.10	9.74E-03	9761	0.10	7.46E-04
5906	0.10	4.86E-03	7863	-0.10	5.55E-06	9768	-0.20	1.13E-04
5914	-0.10	4.19E-03	7871	-0.10	4.18E-03	9769	0.10	2.84E-03
5917	-0.10	1.99E-03	7875	0.10	5.11E-03	9782	0.10	1.38E-03
5918	0.10	2.70E-03	7883	0.10	3.96E-03	9795	-0.10	8.44E-03
5937	-0.10	2.07E-06	7889	0.10	2.88E-03	9806	0.10	7.40E-05
5942	0.10	8.48E-05	7901	0.10	1.15E-03	9807	0.10	2.67E-06
5945	-0.10	1.89E-05	7902	-0.10	5.99E-03	9808	-0.10	3.81E-04
5951	0.10	2.53E-08	7906	0.10	1.43E-05	9815	-0.10	4.06E-03
5970	-0.10	3.58E-06	7908	0.10	8.87E-03	9825	-0.10	6.90E-03
5975	-0.10	1.75E-04	7910	-0.10	9.64E-03	9828	-0.10	2.15E-03
5986	-0.10	8.44E-04	7914	-0.10	4.62E-09	9837	0.20	1.40E-09
5994	0.10	8.52E-05	7921	-0.10	3.68E-03	9849	-0.10	8.77E-03
5995	0.10	8.76E-05	7936	-0.10	1.28E-03	9863	-0.10	8.05E-03
5996	0.10	7.95E-05	7937	0.10	5.56E-14	9868	0.10	1.09E-03
5997	0.10	7.12E-05	7939	-0.10	1.85E-04	9876	-0.10	3.99E-06
6002	-0.10	1.17E-04	7940	-0.10	4.19E-05	9894	0.10	1.05E-07
6008	0.10	7.57E-03	7942	0.10	5.98E-03	9899	-0.10	4.37E-10
6009	-0.10	9.62E-04	7947	0.10	2.38E-05	9908	-0.10	3.57E-04
6012	-0.10	8.96E-03	7948	-0.10	1.13E-05	9910	0.10	8.88E-05
6015	-0.10	2.83E-04	7953	-0.10	6.95E-08	9914	0.10	3.95E-03
6016	0.10	9.49E-05	7965	-0.10	3.86E-08	9917	-0.10	8.85E-03
6020	-0.10	6.37E-04	7967	-0.10	5.31E-03	9920	-0.10	7.12E-03
6021	-0.10	6.67E-04	7970	-0.10	3.33E-04	9923	0.10	2.37E-07
6040	-0.10	3.54E-11	7984	0.10	2.01E-03	9924	0.10	3.51E-05
6045	-0.10	4.14E-04	8020	-0.10	5.48E-04	9929	0.20	8.55E-08
6053	-0.10	5.89E-03	8021	-0.10	2.18E-03	9933	-0.10	2.32E-03
6058	-0.10	1.51E-06	8024	-0.10	5.65E-03	9956	-0.20	7.25E-07

6064	0.10	7.35E-03	8026	-0.10	2.31E-03	9961	0.10	1.35E-05
6066	-0.10	9.44E-08	8028	0.10	2.69E-05	9962	-0.10	2.45E-04
6067	0.10	5.72E-11	8031	-0.10	6.12E-04	9969	-0.10	1.10E-03
6070	0.10	1.52E-03	8034	-0.10	8.82E-08	9983	0.10	1.18E-03
6089	0.10	1.60E-06	8035	-0.10	7.81E-08	9984	0.10	2.17E-06
6092	0.10	9.04E-03	8038	-0.20	1.23E-07	9986	-0.10	3.35E-03
6098	-0.10	2.30E-04	8048	-0.10	2.29E-03	9987	0.10	1.54E-03
6102	0.10	1.35E-05	8052	-0.10	2.76E-04	9988	-0.20	5.75E-04
6105	0.10	7.98E-04	8055	-0.10	2.37E-05	9993	0.00	4.80E-03
6113	0.00	8.40E-03	8070	-0.10	1.66E-06	9996	0.10	4.80E-04
6125	0.10	5.05E-05	8071	-0.10	2.27E-04	10000	0.10	3.54E-05
6131	0.00	8.55E-03	8072	-0.10	2.33E-04	10002	0.10	5.93E-03
6136	-0.10	5.24E-04	8075	-0.10	9.06E-03	10019	-0.10	1.53E-04
6137	-0.10	4.83E-04	8078	0.10	3.43E-10	10034	-0.10	1.08E-04
6139	-0.10	5.42E-03	8079	-0.10	9.29E-04	10036	0.10	1.31E-04
6141	-0.10	6.07E-07	8083	-0.10	4.25E-03	10046	-0.10	5.08E-06
6145	-0.10	7.53E-04	8090	-0.10	6.47E-03	10059	-0.10	1.59E-03
6150	-0.10	4.71E-03	8097	-0.20	2.04E-12	10062	0.10	3.36E-09
6158	-0.10	4.99E-03	8100	-0.10	2.99E-04	10065	0.10	3.40E-03
6159	-0.10	3.46E-03	8101	0.10	5.98E-04	10069	-0.10	2.44E-03
6160	0.10	1.18E-03	8102	0.10	1.35E-03	10071	-0.10	7.10E-03
6163	0.10	2.29E-03	8111	0.10	8.65E-04	10084	-0.10	3.76E-07
6170	0.10	6.36E-05	8124	0.10	2.97E-04	10089	-0.10	1.42E-04
6173	0.10	6.43E-04	8125	0.10	2.62E-04	10092	0.10	9.46E-04
6183	-0.20	9.08E-04	8127	-0.10	2.11E-04	10094	0.10	3.49E-03
6186	-0.10	4.98E-04	8129	0.10	1.65E-03	10095	0.10	1.33E-03
6187	-0.10	9.25E-04	8134	-0.10	6.07E-03	10103	0.10	2.44E-05
6191	-0.10	8.92E-03	8137	0.10	2.45E-04	10115	-0.10	4.65E-03
6212	-0.10	2.43E-04	8146	-0.10	2.93E-05	10126	0.10	1.02E-03
6226	-0.10	2.73E-03	8147	0.10	1.07E-03	10143	0.10	4.80E-03
6232	0.10	1.60E-04	8159	-0.10	1.65E-03	10158	-0.10	7.54E-06
6238	-0.10	1.19E-03	8161	0.10	6.41E-05	10164	0.10	2.63E-03
6241	-0.10	1.38E-05	8172	0.20	9.66E-07	10173	0.10	2.11E-03
6242	-0.10	7.49E-03	8173	0.10	6.99E-08	10177	0.10	3.34E-04
6243	0.10	3.83E-04	8179	-0.20	5.22E-04	10178	-0.10	2.36E-03
6244	-0.10	8.95E-04	8196	0.10	4.98E-05	10182	-0.10	4.17E-04
6261	0.00	5.89E-03	8210	-0.10	1.93E-04	10186	-0.10	3.01E-03

6285	0.10	7.87E-04	8212	-0.10	4.99E-03	10199	-0.10	7.97E-03
6289	-0.10	5.79E-03	8213	0.10	1.14E-03	10204	-0.10	1.84E-07
6293	-0.10	1.18E-03	8219	-0.10	1.69E-03	10206	0.10	1.90E-03
6296	0.20	4.19E-03	8233	-0.10	6.76E-04	10222	-0.20	3.86E-03
6299	-0.10	4.23E-04	8248	-0.10	3.21E-04	10227	0.10	3.04E-07
6303	-0.10	2.48E-09	8261	0.10	5.54E-03	10231	-0.10	2.01E-06
6304	-0.10	3.00E-09	8272	0.10	6.04E-04	10237	0.10	1.13E-06
6310	-0.10	6.36E-04	8274	0.10	9.68E-03	10242	-0.10	4.48E-03
6319	-0.10	1.47E-03	8290	0.10	7.42E-04	10246	0.10	5.72E-03
6321	0.10	3.19E-03	8304	-0.10	9.57E-08	10252	0.10	2.26E-04
6325	-0.10	1.91E-05	8307	0.10	1.55E-05	10255	-0.10	5.84E-03
6329	0.10	3.59E-04	8315	-0.10	1.36E-08	10263	-0.10	8.70E-04
6330	0.10	4.98E-03	8333	0.10	5.24E-03	10274	0.20	2.21E-11
6337	-0.10	6.00E-05	8335	-0.10	3.81E-03	10280	-0.10	2.54E-08
6339	0.10	4.11E-03	8336	0.10	9.19E-07	10290	-0.10	2.82E-03
6345	-0.10	3.96E-03	8345	0.10	2.33E-04	10296	-0.10	4.27E-05
6349	-0.10	5.47E-05	8347	0.10	1.88E-06	10299	-0.10	1.22E-05
6351	0.10	3.14E-05	8351	-0.10	2.47E-06	10302	-0.10	1.65E-05
6361	-0.10	1.22E-04	8358	0.10	1.44E-03	10304	0.10	5.10E-04
6365	0.10	3.83E-03	8360	-0.10	4.70E-04	10307	-0.20	1.36E-07
6369	0.10	5.89E-03	8361	-0.10	1.83E-05	10312	0.10	3.87E-03
6372	-0.10	8.93E-04	8372	0.20	1.17E-07	10314	-0.20	2.65E-07
6381	-0.10	4.38E-04	8374	0.10	1.82E-03	10321	0.10	1.07E-03
6382	0.10	4.93E-04	8388	0.10	3.85E-07	10327	0.20	5.56E-12
6385	-0.10	6.51E-05	8391	0.10	2.66E-05	10328	-0.10	1.91E-05
6387	-0.10	9.18E-03	8411	0.10	1.38E-03	10342	-0.10	9.84E-06
6404	-0.10	9.11E-04	8412	0.10	1.78E-03	10343	0.10	1.23E-03
6405	-0.10	1.92E-08	8415	-0.10	6.08E-08	10345	-0.10	1.43E-06
6406	-0.20	4.86E-14	8417	-0.10	2.49E-06	10347	-0.10	9.95E-03
6411	-0.10	1.31E-03	8418	-0.20	1.37E-10	10356	-0.10	6.39E-07
6414	0.10	6.06E-06	8427	-0.10	2.12E-06	10357	-0.10	1.43E-05
6417	-0.10	3.19E-03	8431	0.10	1.98E-05	10362	0.20	5.63E-12
6432	0.20	7.16E-05	8446	0.10	3.37E-04	10363	0.10	4.46E-04
6436	-0.10	7.47E-04	8448	-0.10	9.34E-08	10369	0.10	6.33E-05
6439	-0.10	3.71E-06	8454	-0.10	4.71E-03	10371	-0.10	2.69E-05
6447	-0.10	2.73E-04	8473	-0.10	9.54E-06	10373	-0.10	8.89E-05
6450	-0.10	4.35E-11	8485	-0.10	6.04E-06	10381	0.10	2.64E-04
6463	0.10	2.82E-05	8486	0.10	3.51E-03	10397	0.10	4.03E-04

6464	-0.10	2.31E-04	8530	-0.10	1.54E-03	10399	0.10	2.07E-05
6471	0.10	8.75E-04	8540	-0.10	3.69E-03	10402	0.10	1.51E-07
6476	0.20	4.49E-05	8544	-0.10	6.53E-06	10408	0.10	1.09E-05
6478	-0.10	1.39E-04	8550	0.10	1.97E-04	10412	-0.10	4.15E-03
6479	-0.10	4.35E-08	8555	0.10	3.29E-03	10413	-0.10	2.85E-03
6480	-0.10	1.75E-05	8559	-0.10	3.91E-05	10426	-0.10	2.27E-10
6483	0.10	5.27E-03	8560	-0.10	6.45E-05	10439	0.10	1.88E-03
6515	-0.10	2.70E-03	8561	-0.10	8.15E-05	10440	-0.10	1.16E-03
6517	0.10	2.44E-03	8562	0.10	1.60E-05	10441	-0.10	2.02E-04
6522	-0.10	2.09E-06	8563	-0.10	3.05E-06	10446	-0.10	3.27E-04
6534	-0.10	5.50E-03	8566	0.10	3.79E-04	10478	-0.20	2.26E-04
6545	0.10	1.42E-03	8580	0.10	1.72E-03	10491	0.20	6.80E-06
6548	0.10	5.93E-04	8582	-0.10	2.28E-04	10492	0.10	1.06E-03
6555	-0.10	3.31E-05	8587	-0.10	4.58E-03	10494	-0.10	3.43E-04
6563	-0.10	3.00E-03	8589	-0.10	3.10E-03	10500	-0.10	1.46E-04
6577	-0.10	1.20E-05	8590	-0.10	2.18E-03	10503	-0.10	4.96E-07
6580	-0.10	2.76E-03	8591	0.10	1.31E-05	10507	0.10	2.60E-03
6583	0.10	5.26E-03	8610	0.10	7.17E-03	10530	-0.10	6.14E-04
6584	0.10	5.03E-04	8614	0.10	4.07E-04	10537	0.10	2.52E-04
6585	0.10	4.95E-04	8616	-0.10	1.91E-04	10545	-0.10	9.37E-07
6597	-0.10	6.93E-03	8617	-0.10	1.36E-03	10552	-0.10	1.53E-06
6598	-0.10	6.48E-03	8621	-0.10	4.57E-03	10553	-0.10	4.26E-04
6602	-0.10	2.58E-03	8628	-0.20	2.93E-03	10559	0.10	5.90E-06
6615	-0.10	6.87E-04	8644	0.10	2.86E-03	10569	0.10	6.06E-06
6619	0.10	6.47E-08	8645	-0.10	4.30E-03	10570	0.10	1.04E-04
6627	0.10	5.91E-03	8656	0.10	2.26E-06	10577	0.20	2.85E-06
6644	0.10	2.30E-05	8658	-0.10	4.59E-03	10578	-0.10	2.86E-04
6648	0.20	7.65E-04	8662	0.20	2.66E-04	10579	0.10	9.37E-03
6651	0.10	1.80E-06	8664	0.10	5.80E-04	10597	0.10	1.93E-03
6660	-0.10	4.16E-04	8675	-0.10	6.69E-05	10600	-0.10	1.89E-03
6668	0.10	5.10E-05	8679	0.10	1.31E-03	10605	-0.10	1.19E-03
6675	0.10	1.01E-03	8683	0.10	1.17E-03	10609	0.20	1.22E-04
6676	0.10	2.66E-03	8686	0.10	3.19E-03	10616	-0.10	2.21E-03
6680	0.10	6.93E-03	8688	0.10	1.98E-03	10624	-0.10	1.49E-03
6684	0.10	8.59E-03	8690	-0.10	7.84E-03	10627	0.10	6.59E-07
6688	-0.10	2.30E-03	8707	-0.10	2.73E-03	10632	-0.10	3.61E-03
6694	-0.10	9.06E-03	8708	-0.10	3.18E-03	10649	0.10	1.68E-05

6695	-0.10	8.05E-03	8712	0.10	6.93E-04	10653	-0.10	5.86E-04
6702	-0.10	7.70E-04	8714	0.10	9.72E-05	10655	0.10	4.14E-03
6704	0.10	2.49E-06	8720	-0.10	1.33E-10	10659	-0.10	7.38E-03
6708	0.10	4.76E-05	8725	-0.10	2.44E-05	10669	-0.20	8.62E-06
6711	0.10	1.15E-03	8726	0.10	2.83E-03	10681	-0.10	8.97E-03
6716	-0.10	6.12E-04	8732	-0.10	9.05E-07	10685	-0.10	8.62E-04
6717	-0.10	7.02E-04	8735	-0.20	1.48E-13	10686	0.10	1.65E-03
6722	-0.10	2.63E-03	8736	-0.20	1.87E-04	10706	-0.10	5.88E-03
6726	0.10	8.58E-04	8739	0.10	2.04E-04	10710	0.10	7.42E-05
6727	-0.10	7.68E-05	8740	-0.10	1.40E-04	10715	-0.10	9.44E-03
6729	0.10	6.36E-07	8749	0.10	2.78E-06	10717	0.10	8.14E-04
6732	0.10	3.18E-03	8754	-0.10	6.45E-04	10722	-0.10	2.70E-06
6735	-0.10	1.41E-03	8776	0.10	2.13E-04	10734	0.10	1.80E-03
6737	-0.10	7.24E-03	8781	0.10	1.65E-07	10740	-0.10	1.52E-04
6739	-0.10	2.04E-03	8782	-0.10	1.59E-04	10770	0.10	5.57E-03
6755	-0.10	1.32E-03	8790	0.10	6.04E-05	10777	-0.20	1.12E-03
6760	-0.10	2.53E-03	8796	0.20	9.20E-03	10813	0.10	7.38E-05
6764	-0.10	1.37E-04	8797	-0.10	1.36E-03	10819	-0.10	4.02E-03
6776	-0.10	1.74E-03	8799	-0.10	4.44E-03	10842	-0.10	4.51E-04
6777	-0.10	6.28E-04	8801	0.10	1.40E-05	10857	0.10	6.18E-06
6778	-0.10	7.99E-04	8803	-0.10	4.26E-03	10865	-0.10	6.67E-07
6779	-0.10	5.30E-04	8808	-0.10	7.76E-03	10878	0.10	2.27E-03
6782	0.10	1.59E-06	8812	0.10	7.49E-03	10883	-0.10	6.52E-03
6784	-0.10	7.42E-03	8814	0.10	4.12E-08	10891	0.10	3.40E-04
6785	0.10	1.67E-05	8815	-0.10	7.14E-03	10892	0.10	5.72E-06
6786	0.10	1.86E-05	8820	0.10	6.65E-06	10893	0.10	6.69E-03
6816	-0.10	5.43E-03	8821	0.10	1.28E-05	10902	0.10	8.94E-04
6818	0.10	8.84E-04	8822	-0.10	1.64E-03	10928	-0.10	7.63E-03
6833	-0.10	2.17E-03	8825	-0.10	2.47E-03	10929	0.20	3.58E-05
6836	-0.10	2.81E-04	8843	0.10	6.26E-03	10943	0.10	9.60E-04
6837	0.10	2.60E-03	8859	0.10	3.00E-04	10944	-0.10	2.88E-05
6838	0.10	6.41E-03	8860	0.10	1.16E-03	10945	0.10	1.48E-03
6839	-0.10	6.65E-05	8861	0.10	6.66E-06	10948	0.10	2.32E-04
6843	0.10	1.58E-03	8863	0.10	7.15E-03	10952	-0.10	5.72E-07
6854	0.10	5.89E-03	8893	0.10	8.85E-03	10961	-0.10	2.43E-03
6859	-0.10	5.45E-03	8907	-0.10	2.92E-03	10972	0.10	2.99E-03
6869	0.10	1.31E-03	8908	0.10	8.90E-04	10992	0.10	3.70E-03

6874	-0.10	2.40E-06	8910	-0.10	5.88E-04	11011	0.10	7.74E-03
6876	-0.10	4.58E-05	8913	0.10	3.52E-05	11012	-0.10	1.43E-03
6878	-0.10	5.52E-03	8921	-0.10	1.21E-03	11019	-0.10	9.49E-04
6884	-0.10	1.26E-03	8927	0.10	4.18E-05	11029	-0.10	9.91E-08
6887	0.10	1.81E-04	8931	-0.10	6.82E-03	11032	-0.10	1.50E-04
6889	-0.10	1.92E-09	8934	0.10	5.77E-03	11053	0.10	7.98E-04
6898	0.10	3.68E-03	8952	0.10	1.94E-05	11060	-0.10	3.00E-03
6900	-0.10	4.81E-03	8953	-0.10	3.39E-04	11077	-0.10	2.54E-03
6926	-0.10	2.95E-06	8958	0.10	7.64E-04	11085	0.10	1.28E-03
6929	0.10	5.05E-04	8963	0.10	5.47E-03	11087	0.10	7.84E-06
6937	0.10	3.71E-04	8973	-0.10	3.58E-05	11088	-0.10	1.88E-11
6953	0.10	6.97E-04	8974	-0.10	5.50E-05	11090	-0.10	3.81E-07
6969	-0.10	3.77E-04	8977	-0.10	3.61E-04	11094	-0.10	3.60E-06
6980	-0.10	4.43E-03	8981	0.10	1.96E-03	11102	-0.10	1.70E-03
6985	0.10	4.44E-07	8987	-0.10	6.33E-04	11103	-0.10	3.45E-08
6988	0.20	1.08E-07	8994	-0.10	6.42E-03	11108	0.10	1.43E-06
6998	0.10	2.95E-03	8999	0.10	3.00E-04	11112	0.10	7.50E-05
7004	0.10	3.07E-06	9000	-0.10	4.44E-03	11136	-0.10	8.08E-03
7008	-0.10	5.16E-07	9003	-0.10	2.30E-04	11139	0.10	1.03E-07
7021	0.20	9.51E-09	9010	0.10	7.94E-03	11140	-0.10	4.10E-04
7028	-0.10	9.91E-05	9029	-0.10	6.55E-03	11143	0.10	6.86E-10
7040	-0.10	1.02E-04	9035	-0.10	2.29E-04	11145	0.10	2.68E-05
7045	0.10	1.47E-06	9056	-0.10	2.48E-03	11147	-0.10	4.16E-04
7053	0.00	7.93E-03	9057	-0.10	7.07E-05	11151	-0.20	2.54E-06
7069	0.10	8.94E-03	9063	-0.10	8.65E-04	11152	-0.10	4.83E-06
7078	-0.10	1.80E-05	9064	-0.10	1.14E-03	11153	0.10	8.67E-05
7081	0.20	1.61E-05	9072	-0.10	4.22E-04	11159	0.10	3.22E-04
7087	-0.10	7.03E-06	9073	-0.10	2.13E-03	11174	-0.10	1.31E-07
7093	-0.10	6.40E-03	9077	-0.10	2.14E-06	11180	-0.10	1.09E-04
7098	-0.10	6.11E-03	9090	-0.20	1.03E-07	11187	-0.10	1.97E-06
7113	-0.10	6.16E-05	9091	-0.10	2.68E-05	11212	0.10	1.39E-04
7123	-0.10	6.95E-03	9092	0.10	5.91E-03	11213	-0.10	1.17E-03
7124	0.10	7.42E-04	9096	-0.10	1.94E-04	11232	-0.20	4.38E-04
7128	-0.10	1.63E-06	9098	-0.10	6.91E-04	11235	-0.10	4.60E-03
7129	-0.10	6.21E-10	9107	-0.10	1.88E-05	11239	0.20	9.46E-10
7134	-0.10	7.70E-04	9122	-0.10	4.26E-03	11258	0.10	8.83E-04
7152	0.10	3.00E-04	9123	-0.20	5.58E-12	11272	0.10	5.62E-03
7162	0.10	6.76E-08	9132	-0.10	3.80E-03	11278	0.10	3.96E-03

7175	0.10	3.70E-03	9138	-0.10	2.27E-08	11315	0.10	7.73E-03
7182	0.10	4.94E-09	9142	0.10	7.90E-03	11316	0.10	1.25E-05
7184	0.10	4.01E-06	9151	0.10	8.85E-05	11321	0.10	4.94E-05
7195	0.10	1.95E-03	9159	0.10	4.34E-04	11331	0.10	1.84E-06
7196	0.10	1.38E-04	9166	0.10	1.06E-06	11340	-0.10	6.39E-04
7205	0.10	1.46E-06	9167	-0.10	1.56E-03	11350	-0.10	1.90E-03
7212	-0.10	9.60E-03	9168	-0.10	1.75E-03	11352	-0.10	1.53E-03
7221	-0.10	4.64E-06	9174	-0.10	1.10E-04	11374	0.10	4.58E-04
7226	-0.10	4.93E-03	9184	-0.10	4.36E-03	11381	-0.10	4.82E-03
7233	-0.10	2.20E-04	9191	0.10	6.34E-06	11384	-0.10	1.07E-05
7240	-0.10	2.41E-07	9202	0.10	6.25E-04	11389	-0.10	4.52E-03
7245	0.00	2.84E-03	9204	0.10	1.79E-03	11391	-0.10	5.02E-08
7247	0.20	5.66E-12	9207	-0.10	2.93E-03	11403	0.10	3.25E-06
7251	-0.10	5.62E-03	9209	0.10	7.97E-05	11406	-0.10	4.82E-05
7266	0.10	1.24E-06	9219	-0.10	4.28E-03	11409	0.20	2.26E-03
7270	0.10	1.38E-03	9229	0.20	1.18E-04	11412	0.10	5.70E-04
7280	-0.10	1.20E-05	9239	-0.10	7.76E-04	11417	0.10	1.62E-03
7313	0.10	5.98E-07	9244	0.10	1.75E-08	11430	-0.10	3.99E-03
7322	0.10	3.02E-03	9258	0.20	1.89E-08	11431	0.10	4.07E-03
7324	0.10	8.98E-03	9261	0.00	2.69E-03	11436	0.10	8.00E-03
12565	-0.20	2.02E-07	11967	0.10	3.68E-03	11437	-0.10	1.29E-03
12573	0.10	6.85E-03	11974	0.10	4.10E-05	11444	0.10	7.49E-04
12584	-0.10	8.88E-04	11977	-0.10	1.51E-04	11450	-0.10	2.73E-03
12606	0.10	3.26E-03	11982	0.10	4.71E-03	11454	0.10	1.61E-07
12609	0.10	2.53E-03	11999	-0.10	3.22E-03	11459	-0.10	1.69E-05
12610	0.10	2.73E-03	12009	-0.10	8.38E-04	11467	0.10	1.11E-03
12611	0.10	2.36E-03	12012	-0.10	1.43E-03	11468	-0.10	3.06E-03
12615	0.10	6.29E-06	12046	0.10	6.67E-05	11469	0.10	2.15E-06
12617	-0.10	5.16E-03	12061	-0.10	3.28E-04	11471	0.10	2.36E-07
12630	-0.10	5.63E-04	12063	-0.10	1.45E-04	11488	-0.10	6.54E-03
12642	-0.10	4.59E-05	12065	-0.10	1.34E-03	11489	-0.10	3.52E-03
12644	-0.10	3.58E-04	12066	-0.10	7.02E-05	11492	-0.20	1.01E-11
12665	0.10	9.01E-03	12131	0.10	1.29E-03	11508	0.10	3.73E-03
12673	-0.10	1.13E-03	12132	0.10	2.66E-03	11509	0.10	6.58E-04
12674	-0.10	4.29E-03	12141	0.00	8.02E-03	11511	-0.10	3.68E-04
12683	0.10	9.51E-06	12144	0.10	1.52E-03	11512	-0.10	3.48E-04
12684	-0.10	4.65E-03	12152	-0.10	4.31E-04	11515	0.10	6.61E-04

12685	-0.10	1.49E-04	12153	0.10	5.95E-08	11533	-0.10	4.45E-07
12689	-0.10	3.43E-04	12154	0.10	2.46E-04	11548	0.10	1.12E-03
12692	-0.10	1.67E-04	12159	-0.10	5.93E-03	11556	-0.10	6.32E-04
12701	-0.10	6.75E-07	12166	0.10	1.52E-03	11560	0.10	2.56E-04
12714	-0.10	1.19E-06	12187	-0.10	7.08E-06	11569	0.10	1.32E-05
12718	-0.10	1.51E-03	12200	-0.10	3.48E-03	11577	-0.10	8.17E-11
12720	-0.10	4.80E-04	12208	-0.10	2.19E-10	11591	0.10	6.10E-03
12729	0.10	5.40E-03	12210	-0.10	3.40E-06	11610	0.20	2.34E-11
12743	-0.10	1.38E-04	12219	0.10	2.67E-04	11612	0.10	8.96E-04
12752	0.10	4.33E-07	12225	0.10	9.21E-03	11613	0.10	2.18E-05
12765	0.10	1.48E-03	12237	-0.10	9.46E-03	11617	-0.10	1.50E-04
12773	0.10	1.24E-03	12240	-0.10	4.29E-07	11621	0.10	3.37E-03
12782	-0.10	4.05E-03	12249	-0.10	3.02E-05	11637	0.10	2.73E-03
12840	-0.10	8.17E-03	12257	-0.10	6.71E-05	11643	0.10	9.16E-03
12846	-0.10	5.75E-07	12274	-0.10	1.14E-03	11655	0.10	9.77E-03
12856	0.10	5.23E-03	12275	-0.10	5.71E-03	11662	0.10	2.71E-03
12859	-0.10	2.03E-04	12292	0.10	6.45E-06	11680	-0.10	5.30E-03
12878	0.10	3.77E-06	12303	-0.20	6.43E-04	11682	-0.10	2.43E-05
12880	-0.10	3.22E-05	12308	-0.10	4.17E-04	11686	0.10	2.00E-07
12881	-0.10	9.47E-06	12313	0.10	1.60E-03	11701	-0.10	3.76E-04
12891	-0.10	1.70E-04	12316	0.20	2.85E-05	11724	-0.10	4.49E-04
12893	-0.10	1.08E-04	12317	0.10	9.68E-10	11731	-0.10	4.41E-04
12897	0.10	3.23E-03	12325	-0.10	8.84E-03	11735	0.10	4.63E-03
12898	-0.10	1.58E-03	12326	0.10	1.48E-03	11745	0.10	2.67E-05
12908	-0.10	2.57E-07	12330	0.10	4.07E-05	11748	-0.10	2.22E-04
12910	-0.10	2.09E-04	12336	0.10	2.91E-03	11754	0.10	1.89E-03
12926	0.10	1.63E-03	12341	-0.10	8.28E-05	11757	0.10	9.16E-08
12933	0.10	3.59E-03	12362	0.10	4.23E-06	11776	-0.10	1.84E-08
12935	0.10	3.36E-03	12376	0.10	7.94E-03	11780	0.10	1.54E-03
12940	-0.10	4.13E-07	12379	-0.10	5.72E-06	11791	0.10	4.59E-05
12941	-0.10	2.08E-03	12395	0.10	1.54E-03	11806	0.10	1.99E-06
12945	-0.10	6.82E-04	12409	-0.20	1.18E-15	11815	0.10	3.39E-03
12946	0.10	3.96E-03	12414	0.10	8.78E-05	11843	0.10	2.79E-05
12961	-0.10	5.42E-04	12423	0.10	9.17E-05	11844	0.10	3.36E-03
12964	0.10	2.96E-05	12433	-0.10	4.61E-03	11864	-0.10	1.90E-03
12977	0.20	8.10E-06	12439	-0.10	1.03E-06	11875	0.10	2.13E-05
12980	-0.10	6.94E-03	12460	-0.10	3.40E-07	11892	0.10	1.59E-04
12981	-0.10	1.84E-03	12462	0.10	2.36E-05	11894	-0.10	1.73E-03

12993	0.10	6.81E-03
12995	-0.10	1.74E-03
12996	0.10	1.22E-08
13001	0.10	5.51E-05
13007	-0.10	3.63E-04
13009	-0.10	8.54E-05
13014	-0.10	9.72E-04
13020	-0.10	2.04E-05
13025	0.20	1.17E-07
15187	-0.10	7.59E-03
15215	-0.10	2.06E-03
15236	-0.10	5.48E-05
15239	-0.20	1.19E-09
15242	0.10	8.49E-04
15250	-0.10	2.06E-05
15277	-0.10	1.81E-04
15293	0.10	2.06E-03
15295	-0.20	7.32E-05
15302	0.10	5.92E-05
15008	0.10	1.68E-04
15017	-0.10	2.04E-03
15018	0.10	9.16E-04
15022	0.10	6.11E-06
15043	-0.10	6.07E-04
15060	0.20	3.98E-12
15078	-0.10	6.96E-06
15086	0.10	5.79E-05
15088	-0.10	3.89E-04
5516	-0.43	5.00E-02
5683	-0.02	5.00E-02

12463	0.10	1.57E-05
12483	-0.10	2.10E-03
12486	-0.20	2.71E-04
12498	-0.10	1.49E-04
12503	-0.10	8.10E-03
12519	0.10	6.39E-03
12534	-0.20	2.35E-07
12547	0.10	1.82E-03
12563	0.10	2.97E-05
11346	0.04	5.00E-02
11526	0.19	5.00E-02
11706	0.09	5.00E-02
12102	-0.05	5.00E-02
12255	-0.06	5.00E-02
12347	-0.22	5.00E-02
12459	0.08	5.00E-02
12530	-0.03	5.00E-02
12838	0.35	5.00E-02
13119	-0.11	5.00E-02
6893	-0.57	5.00E-02
7017	0.09	5.00E-02
7243	0.27	5.00E-02
7339	-0.04	5.00E-02
7365	0.07	5.00E-02
7384	0.05	5.00E-02
7512	-0.03	5.00E-02
7716	0.02	5.00E-02
7975	-0.03	5.00E-02
5400	-0.03	5.00E-02
5515	0.06	5.00E-02

11898	-0.10	4.30E-04
11909	-0.10	8.20E-04
11918	-0.10	1.12E-05
11920	-0.10	2.64E-03
11922	0.10	5.04E-06
11930	-0.10	9.20E-03
11931	0.10	6.05E-03
11947	-0.10	1.58E-04
11960	-0.10	6.66E-03
8017	0.05	5.00E-02
8513	0.04	5.00E-02
8856	-0.13	5.00E-02
8881	0.02	5.00E-02
9282	-0.03	5.00E-02
9839	0.04	5.00E-02
10665	-0.18	5.00E-02
11080	-0.14	5.00E-02
14907	0.10	7.50E-04
14916	-0.10	8.40E-09
14957	-0.10	1.37E-03
14960	0.10	6.62E-09
14966	-0.10	5.39E-05
14972	0.10	5.61E-03
14979	-0.10	2.80E-03
15001	0.10	2.39E-03
5734	0.03	5.00E-02
6401	-0.13	5.00E-02
6875	-0.26	5.00E-02
5096	-0.05	5.00E-02

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TABLE 27 - GENETIC MARKERS FOR PIN SET

A	B	C	A	B	C	A	B	C
194	0.00	4.49E-03	6245	0.00	7.95E-03	11603	0.10	1.44E-03
272	0.00	9.39E-03	6262	0.00	5.42E-03	11655	0.00	5.46E-03
540	0.00	3.25E-04	6297	0.00	5.45E-03	11747	0.00	1.79E-03
599	0.00	2.78E-03	6321	0.10	3.28E-03	11785	0.00	9.14E-03
620	0.00	5.72E-04	6412	-0.10	3.48E-03	11935	0.10	1.11E-03
657	0.00	6.03E-03	6417	0.00	9.27E-03	11961	0.00	3.44E-03
726	0.00	6.42E-03	6452	0.00	9.74E-03	12210	0.00	3.40E-03
752	-0.10	6.92E-03	6629	0.00	6.38E-03	12283	0.00	2.84E-03
1094	0.00	7.26E-03	6677	0.00	7.80E-03	12457	0.10	5.88E-03
1121	0.00	9.72E-03	6707	0.00	5.97E-03	12572	0.00	8.27E-03
1431	0.00	3.90E-03	6716	0.00	8.66E-03	12594	0.10	4.27E-03
1490	0.00	3.05E-03	6717	0.00	8.52E-03	12606	0.10	1.71E-03
1573	0.00	2.98E-03	6752	0.00	8.67E-03	12711	0.00	7.10E-03
1727	0.00	6.32E-03	6839	0.00	6.53E-03	12794	0.00	4.50E-03
1968	0.00	9.22E-03	6879	0.00	5.16E-03	12852	0.00	4.47E-03
1983	0.00	4.22E-03	6938	0.00	7.57E-03	12876	0.00	9.96E-03
2044	0.00	7.65E-03	7095	0.10	2.54E-03	12949	0.10	6.94E-03
2183	0.00	8.56E-04	7260	0.00	6.11E-03	12952	0.00	3.06E-03
2227	0.00	8.82E-03	7666	0.00	7.14E-04	13043	0.00	3.07E-03
2408	-0.10	3.50E-03	7739	0.00	1.91E-03	13075	0.00	3.07E-03
2413	0.00	7.44E-03	7857	-0.10	8.36E-03	13178	0.00	2.01E-03
2414	0.00	7.21E-03	7894	0.10	5.06E-03	13389	0.00	7.75E-03
2453	0.00	8.55E-03	8027	0.00	6.01E-03	13455	0.00	4.29E-04
2970	-0.10	9.88E-03	8230	0.00	4.38E-03	13629	0.00	8.22E-03
3183	0.00	5.90E-03	8237	0.10	6.84E-03	13793	0.00	4.10E-03
3217	0.00	4.90E-03	8238	0.10	6.78E-03	13857	0.00	3.55E-03
3267	0.10	8.81E-03	8368	0.00	4.54E-03	13873	0.00	3.05E-03
3447	0.00	3.10E-03	8423	0.00	5.29E-03	14050	0.00	8.22E-03
3487	0.00	3.14E-03	8436	0.00	9.76E-03	14182	0.00	8.17E-03
3601	0.00	9.08E-03	8550	0.00	2.69E-03	14213	0.00	8.30E-03
3704	0.10	6.82E-03	8577	0.10	3.13E-03	14316	0.00	6.76E-03
3711	0.00	4.39E-03	8606	-0.10	5.29E-03	14717	0.00	4.59E-03
3726	0.00	2.60E-03	8749	0.00	3.88E-04	14904	0.10	8.09E-04
3787	-0.10	9.17E-03	8810	0.00	9.17E-03	362	0.08	5.00E-02
3902	0.00	6.34E-03	8833	0.00	8.77E-03	694	0.03	5.00E-02

3978	0.00	9.23E-03	8908	0.00	2.86E-03	1025	0.61	5.00E-02
4038	0.00	7.60E-03	8915	0.00	9.74E-03	1120	0.02	5.00E-02
4211	0.00	8.17E-04	8916	0.00	9.71E-03	1407	0.16	5.00E-02
4269	0.10	3.40E-03	8968	0.10	3.81E-03	1624	-0.18	5.00E-02
4307	0.00	8.78E-03	9065	0.10	1.90E-03	1719	-0.02	5.00E-02
4363	0.00	4.54E-03	9093	0.00	7.58E-03	1911	0.13	5.00E-02
4369	0.00	7.84E-03	9246	0.00	9.77E-04	1946	-0.02	5.00E-02
4409	0.00	9.09E-03	9319	0.00	1.99E-03	2022	-0.02	5.00E-02
4611	0.00	9.87E-03	9320	0.00	7.78E-03	2111	0.09	5.00E-02
4760	0.00	6.30E-03	9332	0.10	7.34E-03	2252	0.10	5.00E-02
4761	0.00	6.29E-03	9358	0.00	3.77E-03	2319	0.09	5.00E-02
4802	0.10	2.28E-03	9569	0.00	9.54E-03	2520	-0.11	5.00E-02
4857	0.00	6.75E-03	9691	0.00	5.32E-03	2598	-0.03	5.00E-02
5132	0.00	8.62E-03	9968	0.00	4.69E-03	2747	-0.02	5.00E-02
5237	0.00	1.12E-03	9996	0.00	1.60E-03	2764	0.03	5.00E-02
5350	-0.10	6.73E-03	10115	0.00	2.55E-03	3247	-0.10	5.00E-02
5605	-0.10	7.11E-03	10317	0.00	9.71E-03	3298	-0.12	5.00E-02
5611	0.10	5.76E-03	10350	0.00	9.29E-03	3370	-0.03	5.00E-02
5616	0.10	7.53E-03	10734	0.10	2.07E-04	3509	-0.19	5.00E-02
5619	0.00	7.24E-03	10815	0.00	1.64E-03	3641	0.02	5.00E-02
5639	0.00	9.27E-03	10836	0.10	2.68E-04	3853	-0.90	5.00E-02
5714	0.00	5.59E-03	10994	0.00	4.06E-03	3868	0.10	5.00E-02
5966	0.00	5.54E-03	11251	0.00	4.24E-03	3958	-0.85	5.00E-02
5979	0.00	5.11E-03	11383	0.00	4.32E-03	4260	-0.07	5.00E-02
6234	0.00	4.17E-03	11510	0.00	4.32E-03	4617	0.02	5.00E-02
6241	0.00	7.68E-04	11597	0.00	8.97E-03	5105	0.06	5.00E-02

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			0.09	0.09	0.09	
			-0.16	-0.16	-0.16	
			-0.09	-0.09	-0.09	

-0.08	-0.08	-0.08		
-0.09	-0.09	-0.09		
0.13	0.13	0.13		
0.07	0.07	0.07		
-0.19	-0.19	-0.19		
0.21	0.21	0.21		
-0.16	-0.16	-0.16		
0.17	0.17	0.17		
-0.10	-0.10	-0.10		
-0.12	-0.12	-0.12		
-0.11	-0.11	-0.11		
-0.12	-0.12	-0.12		
-0.13	-0.13	-0.13		
0.15	0.15	0.15		
-0.23	-0.23	-0.23		
0.08	0.08	0.08		
0.10	0.10	0.10		
0.17	0.17	0.17		
-0.09	-0.09	-0.09		
-0.23	-0.23	-0.23		
0.11	0.11	0.11		
0.14	0.14	0.14		
0.17	0.17	0.17		
-0.15	-0.15	-0.15		
-0.28	-0.28	-0.28		
-0.17	-0.17	-0.17		
-0.25	-0.25	-0.25		
0.08	0.08	0.08		
0.15	0.15	0.15		
0.23	0.23	0.23		
-0.16	-0.16	-0.16		
-0.08	-0.08	-0.08		
-0.08	-0.08	-0.08		
0.10	0.10	0.10		
-0.31	-0.31	-0.31		
0.12	0.12	0.12		
0.10	0.10	0.10		
0.09	0.09	0.09		
-0.17	-0.17	-0.17		
-0.09	-0.09	-0.09		
-0.14	-0.14	-0.14		
0.08	0.08	0.08		
0.07	0.07	0.07		
0.10	0.10	0.10		
0.08	0.08	0.08		
0.09	0.09	0.09		
-0.09	-0.09	-0.09		
0.19	0.19	0.19		
0.14	0.14	0.14		

-0.07	-0.07	-0.07	
0.09	0.09	0.09	
0.12	0.12	0.12	
0.10	0.10	0.10	
-0.15	-0.15	-0.15	
-0.07	-0.07	-0.07	
0.12	0.12	0.12	
0.09	0.09	0.09	
-0.14	-0.14	-0.14	
-0.11	-0.11	-0.11	
0.14	0.14	0.14	
-0.16	-0.16	-0.16	
0.16	0.16	0.16	
-0.08	-0.08	-0.08	
-0.15	-0.15	-0.15	
-0.16	-0.16	-0.16	
-0.10	-0.10	-0.10	
-0.12	-0.12	-0.12	
-0.12	-0.12	-0.12	
0.10	0.10	0.10	
-0.25	-0.25	-0.25	
-0.12	-0.12	-0.12	
-0.12	-0.12	-0.12	
0.11	0.11	0.11	
-0.14	-0.14	-0.14	
0.18	0.18	0.18	
-0.14	-0.14	-0.14	
-0.09	-0.09	-0.09	
-0.12	-0.12	-0.12	
-0.21	-0.21	-0.21	
-0.12	-0.12	-0.12	
0.12	0.12	0.12	
-0.12	-0.12	-0.12	
0.08	0.08	0.08	
0.18	0.18	0.18	
-0.19	-0.19	-0.19	
0.09	0.09	0.09	
0.13	0.13	0.13	
-0.07	-0.07	-0.07	
-0.16	-0.16	-0.16	
0.25	0.25	0.25	
-0.05	-0.05	-0.05	
-0.10	-0.10	-0.10	
-0.11	-0.11	-0.11	
-0.07	-0.07	-0.07	
0.08	0.08	0.08	
0.10	0.10	0.10	
-0.15	-0.15	-0.15	
-0.08	-0.08	-0.08	

-0.18	-0.18	-0.18
0.21	0.21	0.21
-0.20	-0.20	-0.20
-0.15	-0.15	-0.15
-0.07	-0.07	-0.07
0.12	0.12	0.12
0.08	0.08	0.08
0.15	0.15	0.15
-0.09	-0.09	-0.09
0.15	0.15	0.15
0.07	0.07	0.07
-0.09	-0.09	-0.09
0.10	0.10	0.10
0.10	0.10	0.10
-0.17	-0.17	-0.17
0.15	0.15	0.15
-0.13	-0.13	-0.13
-0.24	-0.24	-0.24
-0.18	-0.18	-0.18
-0.25	-0.25	-0.25
0.13	0.13	0.13
0.10	0.10	0.10
-0.14	-0.14	-0.14
-0.08	-0.08	-0.08
-0.21	-0.21	-0.21
-0.19	-0.19	-0.19
-0.09	-0.09	-0.09
-0.16	-0.16	-0.16
0.10	0.10	0.10
-0.13	-0.13	-0.13
0.07	0.07	0.07
-0.16	-0.16	-0.16
-0.16	-0.16	-0.16
-0.19	-0.19	-0.19
0.12	0.12	0.12
0.11	0.11	0.11
-0.08	-0.08	-0.08
0.08	0.08	0.08
0.11	0.11	0.11
0.07	0.07	0.07
-0.08	-0.08	-0.08
0.15	0.15	0.15
-0.13	-0.13	-0.13
0.08	0.08	0.08
-0.08	-0.08	-0.08
-0.18	-0.18	-0.18
-0.07	-0.07	-0.07
0.08	0.08	0.08
0.15	0.15	0.15

-0.21	-0.21	-0.21	
0.17	0.17	0.17	
-0.16	-0.16	-0.16	
0.13	0.13	0.13	
0.08	0.08	0.08	
-0.18	-0.18	-0.18	
-0.08	-0.08	-0.08	
-0.10	-0.10	-0.10	
0.09	0.09	0.09	
-0.13	-0.13	-0.13	
0.14	0.14	0.14	
0.11	0.11	0.11	
-0.20	-0.20	-0.20	
0.15	0.15	0.15	
0.15	0.15	0.15	
0.09	0.09	0.09	
0.17	0.17	0.17	
-0.11	-0.11	-0.11	
-0.11	-0.11	-0.11	
0.12	0.12	0.12	
-0.17	-0.17	-0.17	
-0.15	-0.15	-0.15	
-0.23	-0.23	-0.23	
0.07	0.07	0.07	
0.11	0.11	0.11	
0.08	0.08	0.08	
0.13	0.13	0.13	
-0.21	-0.21	-0.21	
-0.26	-0.26	-0.26	
-0.14	-0.14	-0.14	
-0.12	-0.12	-0.12	
0.09	0.09	0.09	
0.12	0.12	0.12	
0.08	0.08	0.08	
-0.15	-0.15	-0.15	
0.14	0.14	0.14	
0.12	0.12	0.12	
-0.07	-0.07	-0.07	
-0.16	-0.16	-0.16	
-0.18	-0.18	-0.18	
0.12	0.12	0.12	
-0.13	-0.13	-0.13	
-0.09	-0.09	-0.09	
-0.10	-0.10	-0.10	
-0.08	-0.08	-0.08	
0.12	0.12	0.12	
-0.11	-0.11	-0.11	
-0.16	-0.16	-0.16	
-0.19	-0.19	-0.19	

		-0.19	-0.19	-0.19
		0.11	0.11	0.11
		-0.15	-0.15	-0.15
		-0.11	-0.11	-0.11
		-0.23	-0.23	-0.23
		0.13	0.13	0.13
		-0.11	-0.11	-0.11
		-0.09	-0.09	-0.09
		0.12	0.12	0.12
		-0.17	-0.17	-0.17
		0.15	0.15	0.15
		-0.13	-0.13	-0.13
		-0.27	-0.27	-0.27
		0.07	0.07	0.07
		-0.25	-0.25	-0.25
		-0.07	-0.07	-0.07
		0.09	0.09	0.09
		-0.16	-0.16	-0.16
		-0.17	-0.17	-0.17
		0.14	0.14	0.14
		0.12	0.12	0.12
		0.12	0.12	0.12
		0.09	0.09	0.09
		0.10	0.10	0.10
		0.12	0.12	0.12
		0.07	0.07	0.07
		0.11	0.11	0.11
		0.16	0.16	0.16
		-0.18	-0.18	-0.18
		-0.16	-0.16	-0.16
		0.10	0.10	0.10
		0.10	0.10	0.10
		-0.20	-0.20	-0.20
		-0.15	-0.15	-0.15
		-0.15	-0.15	-0.15
		-0.33	-0.33	-0.33
		-0.09	-0.09	-0.09
		-0.15	-0.15	-0.15
		-0.37	-0.37	-0.37
		-0.07	-0.07	-0.07
		-0.13	-0.13	-0.13
		-0.15	-0.15	-0.15
		-0.09	-0.09	-0.09
		-0.09	-0.09	-0.09
		-0.16	-0.16	-0.16
		-0.24	-0.24	-0.24
		0.07	0.07	0.07
		-0.18	-0.18	-0.18
		-0.11	-0.11	-0.11

0.10	0.10	0.10	
-0.12	-0.12	-0.12	
0.13	0.13	0.13	
-0.12	-0.12	-0.12	
0.13	0.13	0.13	
-0.07	-0.07	-0.07	
0.08	0.08	0.08	
-0.08	-0.08	-0.08	
0.07	0.07	0.07	
-0.17	-0.17	-0.17	
-0.09	-0.09	-0.09	
0.08	0.08	0.08	
-0.14	-0.14	-0.14	
-0.14	-0.14	-0.14	
-0.13	-0.13	-0.13	
0.13	0.13	0.13	
0.09	0.09	0.09	
-0.18	-0.18	-0.18	
-0.22	-0.22	-0.22	
0.11	0.11	0.11	
0.10	0.10	0.10	
-0.21	-0.21	-0.21	
0.17	0.17	0.17	
0.19	0.19	0.19	
0.15	0.15	0.15	
-0.15	-0.15	-0.15	
-0.15	-0.15	-0.15	
-0.16	-0.16	-0.16	
0.14	0.14	0.14	
0.12	0.12	0.12	
0.07	0.07	0.07	
-0.13	-0.13	-0.13	
-0.09	-0.09	-0.09	
0.08	0.08	0.08	

TABLE 33 - GENETIC MARKERS FOR UDDER TEXTURE

A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
2	0.10	5.23E-03	2418	-0.10	1.57E-07	4849	-0.20	2.12E-08	7190	0.09	5.21E-04	9388	-0.20	2.70E-05	12336	0.16	3.06E-11
3	0.10	5.46E-07	2422	-0.10	4.90E-06	4854	-0.10	2.02E-05	7193	0.18	3.99E-04	9390	-0.17	1.94E-05	12343	-0.24	4.97E-06
5	-0.10	9.81E-03	2423	0.10	1.46E-03	4857	-0.10	2.30E-03	7195	-0.25	2.26E-17	9394	-0.22	1.33E-07	12344	0.20	3.47E-14
13	0.10	6.56E-06	2424	-0.20	6.58E-09	4858	-0.10	6.47E-06	7197	-0.18	5.91E-11	9397	-0.15	2.70E-06	12353	0.09	6.58E-04
15	0.20	1.56E-09	2427	-0.10	3.04E-07	4859	-0.10	4.63E-06	7198	-0.13	2.52E-04	9401	0.11	9.05E-04	12356	-0.25	2.71E-14
16	0.10	1.03E-03	2432	0.20	3.81E-08	4863	-0.20	8.77E-11	7199	-0.18	1.23E-08	9402	-0.25	3.47E-17	12358	-0.21	8.67E-17
22	-0.20	2.07E-09	2436	0.10	3.19E-03	4864	-0.30	3.52E-20	7200	-0.13	1.91E-03	9404	-0.18	2.89E-10	12365	-0.09	6.23E-04
26	0.10	6.02E-07	2437	-0.20	7.98E-09	4873	0.10	7.02E-07	7202	-0.21	1.16E-05	9405	-0.10	6.63E-03	12368	0.14	6.33E-10
27	-0.10	2.22E-03	2443	-0.10	3.06E-04	4876	0.10	9.01E-03	7204	0.19	5.08E-12	9406	-0.11	4.14E-09	12376	0.21	3.67E-13
35	-0.20	1.17E-16	2446	0.30	5.87E-24	4877	0.10	8.00E-03	7206	0.10	5.48E-04	9410	0.11	1.54E-05	12378	-0.25	1.71E-03
36	-0.30	1.15E-13	2450	-0.10	8.14E-04	4878	-0.10	2.39E-04	7208	-0.17	4.71E-07	9413	-0.23	2.78E-07	12381	-0.17	2.11E-07
39	-0.50	1.16E-13	2452	0.30	2.03E-08	4879	-0.10	3.54E-03	7218	-0.17	4.23E-12	9417	0.09	5.23E-03	12391	-0.10	9.15E-03
46	-0.30	2.94E-18	2453	-0.20	4.71E-13	4880	-0.30	1.60E-05	7219	-0.14	9.02E-07	9421	-0.17	3.11E-06	12393	0.15	7.80E-10
52	-0.30	2.97E-24	2456	0.10	1.54E-03	4885	0.10	4.47E-07	7223	-0.22	1.01E-11	9423	-0.11	1.10E-04	12394	0.08	1.36E-03
54	0.10	5.76E-05	2459	-0.10	7.02E-03	4887	-0.10	4.31E-03	7225	-0.26	1.02E-05	9424	-0.18	9.31E-09	12404	-0.08	1.42E-03
59	-0.20	1.11E-03	2461	-0.20	1.08E-04	4890	-0.20	1.49E-07	7227	0.10	6.77E-04	9430	0.10	7.76E-05	12409	0.24	4.65E-23
61	-0.20	1.21E-06	2465	-0.30	3.31E-33	4893	0.20	4.70E-13	7228	0.10	1.83E-04	9432	0.09	6.21E-03	12411	0.19	2.40E-06
63	-0.20	1.32E-17	2466	-0.30	2.53E-25	4894	-0.20	2.50E-10	7229	0.11	1.60E-05	9434	-0.09	5.29E-04	12412	-0.13	2.10E-07
65	-0.10	8.09E-03	2470	-0.30	1.41E-12	4898	0.10	3.38E-15	7231	0.13	3.08E-07	9437	-0.40	1.98E-11	12415	0.23	1.19E-04
66	-0.20	5.89E-10	2471	0.20	6.51E-18	4905	-0.20	1.42E-08	7232	-0.20	1.73E-14	9445	-0.15	2.27E-06	12423	-0.07	8.09E-03
67	0.20	3.39E-09	2472	-0.20	1.84E-11	4909	-0.10	6.11E-03	7233	0.14	2.63E-08	9447	-0.19	1.74E-05	12433	0.11	8.07E-06
71	-0.20	2.84E-14	2476	0.10	4.07E-05	4911	0.10	3.19E-07	7234	-0.11	8.20E-03	9448	-0.08	8.29E-04	12443	0.12	1.67E-05
73	0.10	3.80E-05	2479	0.10	2.66E-04	4916	-0.10	1.11E-04	7238	-0.12	6.66E-05	9449	0.24	7.40E-09	12444	-0.15	4.01E-03
75	-0.10	1.22E-03	2480	0.10	5.83E-04	4917	0.10	5.20E-04	7239	-0.22	6.23E-05	9452	-0.16	6.53E-04	12457	-0.10	1.45E-03
77	-0.10	1.34E-06	2483	0.10	7.58E-05	4919	0.10	4.11E-03	7245	0.08	1.58E-05	9453	0.08	5.73E-03	12458	0.11	1.22E-05
99	0.30	2.82E-27	2484	0.10	8.03E-08	4920	0.10	4.57E-07	7247	-0.19	3.29E-08	9455	0.10	3.29E-03	12460	-0.08	8.44E-03
101	-0.30	7.99E-40	2485	0.10	8.92E-09	4934	0.20	1.10E-07	7248	-0.08	5.87E-03	9458	-0.25	1.63E-03	12462	0.16	7.87E-11
106	0.20	7.07E-15	2486	0.10	1.51E-07	4936	-0.10	3.09E-05	7251	0.16	1.83E-09	9459	-0.14	4.92E-08	12463	-0.09	3.59E-04
117	0.10	1.79E-03	2489	0.20	3.30E-07	4937	0.10	5.98E-05	7255	0.26	4.94E-08	9472	-0.12	2.47E-04	12465	-0.27	3.52E-10
120	-0.10	2.15E-03	2490	-0.20	6.22E-05	4938	0.10	4.13E-08	7263	0.09	4.22E-04	9476	-0.12	7.15E-06	12466	-0.19	2.93E-09
126	0.20	1.58E-04	2491	0.20	5.09E-20	4946	-0.10	4.12E-05	7264	0.07	8.58E-03	9478	0.23	2.76E-10	12469	-0.22	2.05E-09
131	0.30	2.46E-29	2494	0.10	5.98E-03	4951	0.20	1.08E-13	7269	0.16	2.07E-07	9483	-0.19	2.68E-07	12477	-0.18	1.92E-06
136	-0.10	3.62E-03	2495	0.10	5.22E-03	4953	0.10	2.93E-06	7270	-0.18	3.29E-10	9485	-0.11	3.29E-04	12481	0.10	7.07E-03
138	-0.10	3.82E-03	2499	0.10	5.22E-06	4958	0.10	5.50E-03	7271	-0.13	4.14E-08	9486	-0.20	1.02E-04	12482	-0.25	4.41E-10
142	-0.10	2.38E-03	2501	-0.10	3.04E-13	4962	-0.10	6.04E-03	7272	0.09	1.79E-03	9494	-0.26	5.39E-04	12483	0.10	4.24E-04
143	0.10	5.67E-06	2508	-0.10	5.36E-08	4964	-0.10	8.36E-04	7275	-0.28	1.75E-04	9498	-0.13	1.02E-06	12486	0.19	7.54E-04
145	0.20	1.14E-07	2511	0.10	8.99E-04	4966	0.10	1.48E-05	7277	0.08	3.11E-03	9500	-0.13	1.52E-05	12487	-0.15	1.75E-03
150	-0.10	1.90E-03	2514	-0.20	3.23E-10	4967	0.10	5.30E-04	7279	-0.19	5.96E-13	9502	0.10	3.45E-05	12489	-0.13	1.84E-03
152	0.20	2.35E-09	2516	-0.10	1.12E-03	4970	-0.20	1.06E-07	7280	-0.10	1.75E-03	9505	-0.08	4.74E-06	12491	0.11	5.67E-06
153	-0.10	2.94E-03	2517	0.10	7.57E-03	4973	0.10	1.63E-04	7284	0.13	2.70E-03	9507	0.09	2.63E-04	12493	-0.08	1.25E-03
154	-0.20	4.82E-06	2518	0.10	2.18E-06	4974	0.10	4.33E-05	7285	0.13	2.12E-03	9508	0.16	1.03E-10	12498	0.23	4.38E-20
156	0.10	1.15E-03	2522	-0.10	6.75E-09	4976	-0.20	3.16E-05	7286	0.09	8.39E-03	9516	0.09	2.49E-03	12500	-0.13	1.51E-03
162	-0.20	2.58E-06	2523	-0.20	3.13E-09	4977	-0.10	1.62E-03	7291	-0.08	4.82E-03	9517	-0.11	6.14E-04	12503	0.10	3.68E-04
163	0.10	3.79E-03	2532	-0.20	2.08E-10	4978	-0.30	5.22E-04	7292	0.09	5.61E-03	9521	-0.12	4.31E-06	12509	-0.29	1.07E-14
168	0.10	3.51E-03	2534	0.10	7.79E-03	4979	0.10	2.38E-03	7300	0.10	6.00E-04	9529	0.15	5.24E-09	12510	-0.17	4.56E-08
171	0.10	4.53E-04	2535	0.20	6.02E-08	4985	-0.10	1.95E-03	7304	-0.15	1.18E-03	9530	-0.22	1.18E-10	12518	0.17	2.72E-12
174	0.20	1.45E-08	2540	0.10	5.13E-06	4986	-0.20	3.46E-06	7305	-0.12	7.73E-05	9531	-0.19	1.39E-12	12519	-0.08	6.26E-03
176	-0.30	6.24E-23	2543	0.10	5.07E-04	4987	-0.30	5.05E-04	7306	0.07	8.03E-03	9538	-0.18	4.83E-08	12521	0.18	1.12E-12
177	0.10	5.05E-06	2544	-0.10	8.61E-03	4991	-0.20	9.99E-10	7310	-0.10	1.59E-04	9540	-0.13	1.89E-05	12522	-0.15	6.36E-09
181	0.20	1.76E-14	2545	-0.10	1.84E-04	4995	-0.10	6.06E-03	7311	-0.17	1.38E-10	9541	-0.07	2.83E-03	12524	0.18	1.50E-12
182	-0.10	1.65E-03	2547	-0.10	2.25E-03	4996	-0.30	7.34E-14	7313	0.16	5.14E-09	9542	-0.28	2.59E-06	12529	0.14	5.74E-08
184	0.10	4.73E-03	2549	-0.20	4.21E-03	5003	-0.30	3.96E-06	7315	-0.22	1.01E-09	9543	-0.07	5.94E-03	12531	-0.07	2.15E-03
185	0.10	1.27E-04	2550	-0.30	3.57E-09	5010	-0.20	5.24E-10	7316	-0.13	6.62E-06	9544	0.07	3.24E-04	12535	-0.11	8.36E-03
191	-0.20	3.43E-15	2559	-0.30	2.52E-04	5013	0.10	3.45E-05	7317	-0.12	2.76E-05	9557	-0.16	9.19E-09	12536	-0.18	1.56E-10

194	0.10	2.17E-08	2564	0.10	2.84E-03	5016	-0.10	1.75E-06	7319	-0.24	1.10E-05	9558	-0.16	9.79E-09	12542	-0.07	6.03E-03
203	-0.10	4.39E-08	2570	0.10	4.14E-04	5025	0.20	1.00E-22	7321	-0.08	6.20E-03	9575	0.16	7.88E-10	12544	0.17	8.70E-09
206	0.10	4.93E-05	2571	-0.20	8.42E-15	5028	-0.10	4.50E-03	7322	-0.13	2.37E-08	9581	-0.07	9.60E-03	12545	-0.25	7.23E-05
209	0.10	1.10E-07	2575	0.20	3.76E-05	5032	0.10	4.66E-03	7323	-0.16	7.08E-04	9583	-0.21	1.04E-05	12546	-0.14	1.10E-08
212	0.10	5.54E-03	2576	0.10	5.63E-03	5034	0.10	9.25E-03	7327	0.07	6.30E-03	9584	-0.07	6.15E-03	12547	-0.15	1.26E-08
215	-0.20	4.15E-05	2577	-0.20	1.72E-04	5036	0.10	2.63E-04	7329	-0.40	4.48E-11	9587	0.12	7.91E-07	12549	0.10	3.78E-03
217	0.20	2.00E-10	2578	-0.20	7.75E-09	5037	-0.20	1.84E-11	7331	0.35	2.07E-16	9589	0.15	2.17E-06	12561	-0.23	6.87E-04
219	0.20	4.47E-10	2580	0.10	7.04E-05	5046	-0.10	1.49E-04	7335	-0.18	3.59E-06	9590	0.13	7.78E-07	12565	0.21	1.39E-06
220	-0.10	2.51E-07	2582	-0.20	9.79E-11	5047	0.20	5.33E-05	7338	-0.12	2.00E-05	9594	-0.15	1.68E-08	12566	-0.09	1.32E-03
221	-0.10	3.92E-04	2583	0.10	6.11E-08	5057	-0.30	5.96E-14	7340	-0.22	2.46E-10	9595	-0.11	6.05E-04	12577	-0.20	1.98E-13
222	-0.20	5.19E-10	2587	-0.20	1.39E-09	5060	0.10	1.31E-07	7345	0.17	4.19E-08	9598	-0.27	6.99E-18	12583	-0.16	1.04E-04
224	0.20	1.50E-03	2590	0.20	2.67E-04	5061	-0.30	2.70E-06	7355	-0.09	2.64E-04	9609	0.24	3.27E-15	12584	-0.20	4.96E-11
226	-0.20	1.81E-03	2595	0.20	7.97E-14	5063	-0.30	3.96E-09	7357	0.25	9.64E-19	9615	-0.11	2.21E-05	12590	-0.27	3.84E-10
228	-0.20	4.83E-03	2597	0.20	6.55E-05	5066	-0.10	4.61E-05	7358	0.15	5.15E-06	9617	-0.24	6.28E-11	12591	-0.15	5.74E-08
231	-0.20	1.33E-10	2599	-0.10	1.17E-03	5069	0.20	2.67E-18	7359	-0.19	5.32E-03	9618	0.33	3.81E-07	12592	0.14	9.69E-06
235	-0.10	3.64E-03	2604	-0.20	6.17E-07	5070	0.20	2.53E-09	7360	-0.14	6.65E-05	9619	0.12	2.72E-04	12597	-0.20	2.66E-13
237	-0.10	1.55E-03	2608	0.20	6.24E-10	5071	0.10	8.88E-07	7361	0.09	3.49E-04	9624	0.07	5.57E-03	12598	-0.26	8.41E-15
238	-0.10	7.52E-05	2611	-0.20	6.89E-13	5074	-0.20	2.04E-04	7362	-0.18	5.25E-08	9626	0.12	1.00E-03	12599	0.09	8.54E-05
244	-0.10	1.88E-03	2612	-0.20	1.96E-13	5076	0.10	3.20E-03	7367	-0.10	4.63E-04	9627	-0.17	3.13E-03	12604	-0.18	1.51E-03
246	-0.20	4.65E-05	2613	-0.20	3.70E-10	5078	-0.10	1.98E-08	7374	0.24	1.89E-23	9628	-0.28	4.24E-09	12605	-0.12	7.90E-07
249	-0.20	9.33E-12	2615	0.10	1.20E-04	5079	0.10	6.79E-09	7376	0.10	9.53E-05	9633	-0.29	3.40E-06	12606	-0.12	9.02E-05
250	-0.10	1.82E-03	2617	-0.10	9.80E-03	5083	0.20	1.07E-10	7378	0.15	7.17E-04	9635	0.11	1.74E-05	12609	-0.10	2.79E-04
251	0.10	2.62E-04	2620	0.10	6.95E-09	5086	0.20	2.25E-20	7386	-0.10	1.68E-04	9636	-0.25	5.95E-12	12610	-0.27	1.32E-05
255	0.10	5.25E-04	2630	0.20	2.46E-05	5088	0.10	5.61E-07	7388	-0.14	1.76E-07	9639	-0.13	2.47E-04	12613	-0.34	5.02E-28
257	0.20	2.82E-14	2633	-0.30	2.77E-06	5093	-0.20	2.18E-11	7390	0.23	4.81E-10	9640	-0.11	5.35E-06	12614	-0.09	5.22E-03
259	0.20	2.22E-03	2638	-0.20	1.01E-03	5094	0.20	2.62E-10	7396	0.17	2.11E-10	9641	0.09	3.50E-03	12623	-0.09	4.54E-04
263	0.20	3.73E-04	2640	0.30	1.07E-09	5095	-0.20	3.20E-06	7401	0.08	2.99E-03	9645	0.11	2.75E-06	12625	0.17	5.19E-12
265	-0.10	5.10E-06	2646	0.10	2.53E-05	5097	0.20	3.20E-05	7403	-0.19	3.86E-07	9646	-0.23	1.41E-16	12627	-0.24	3.86E-06
270	0.10	9.08E-09	2647	0.20	3.92E-09	5098	0.10	1.46E-08	7404	-0.19	1.32E-07	9647	-0.25	6.41E-06	12630	0.16	2.63E-06
272	-0.20	1.09E-13	2649	-0.20	2.45E-11	5102	-0.20	6.64E-05	7406	0.14	9.11E-05	9655	0.08	1.91E-03	12636	-0.09	4.46E-03
276	-0.20	1.26E-03	2650	0.10	5.17E-05	5109	0.20	1.22E-07	7407	0.08	1.89E-03	9657	0.13	6.88E-05	12642	0.09	7.30E-04
282	0.10	1.18E-08	2657	0.10	7.38E-04	5115	-0.10	7.85E-03	7410	0.14	8.38E-07	9660	-0.22	5.51E-17	12644	-0.19	7.02E-11
285	-0.10	6.61E-03	2664	0.10	1.75E-06	5116	-0.10	2.12E-06	7412	-0.12	3.40E-03	9664	-0.10	2.15E-03	12655	-0.10	9.45E-05
298	0.10	8.98E-05	2665	0.10	8.68E-07	5117	0.20	6.06E-06	7414	0.07	4.45E-04	9665	-0.30	1.65E-16	12656	-0.30	5.95E-24
300	0.10	6.79E-03	2667	0.20	5.36E-05	5121	0.20	5.38E-06	7420	-0.08	5.66E-04	9670	0.11	2.82E-05	12657	0.18	9.17E-11
305	0.10	1.53E-07	2668	-0.30	1.52E-24	5122	-0.10	4.16E-04	7421	-0.13	4.24E-07	9671	0.16	8.42E-09	12658	-0.09	1.17E-03
307	0.10	1.41E-09	2670	-0.20	1.00E-06	5124	-0.20	1.88E-09	7424	0.18	2.57E-10	9672	-0.14	6.71E-08	12668	-0.34	9.61E-29
312	-0.20	9.96E-10	2684	0.10	5.21E-05	5125	0.10	9.88E-06	7426	0.21	1.32E-14	9676	0.10	1.77E-05	12673	-0.22	1.10E-15
315	0.10	1.02E-06	2686	0.10	6.41E-04	5132	0.10	1.95E-06	7427	-0.19	9.98E-07	9677	0.07	6.97E-03	12675	-0.25	4.58E-17
317	-0.10	1.07E-03	2688	-0.30	7.66E-20	5133	-0.30	3.08E-07	7429	0.22	6.38E-17	9680	0.24	5.16E-22	12676	-0.10	9.05E-04
318	-0.20	2.21E-13	2692	0.20	3.16E-06	5134	-0.30	3.02E-34	7430	-0.16	3.79E-10	9681	0.22	1.85E-06	12682	0.16	6.22E-06
320	-0.20	4.64E-06	2693	0.20	1.04E-14	5138	-0.10	5.67E-07	7431	0.15	2.56E-07	9682	-0.15	3.99E-10	12683	-0.16	6.74E-10
321	0.10	2.98E-05	2696	0.20	4.75E-17	5145	-0.10	4.82E-05	7434	0.15	8.17E-12	9684	0.10	1.29E-04	12684	0.11	3.72E-04
323	-0.10	2.97E-03	2701	0.10	3.60E-03	5148	-0.10	1.02E-05	7437	0.09	9.57E-05	9685	-0.28	7.19E-15	12686	0.16	7.40E-03
327	-0.10	2.50E-06	2705	-0.20	9.78E-12	5149	-0.20	1.59E-12	7441	-0.14	3.20E-07	9686	-0.17	5.41E-05	12692	0.13	2.82E-04
328	-0.20	9.87E-05	2706	0.10	1.40E-03	5152	0.10	1.77E-04	7443	-0.27	4.14E-06	9687	-0.08	2.59E-03	12693	0.14	2.19E-08
330	-0.30	7.13E-14	2707	-0.30	3.92E-21	5159	0.10	2.20E-03	7447	-0.10	2.03E-04	9688	0.14	3.06E-08	12699	-0.10	1.97E-03
331	-0.10	2.99E-07	2712	-0.10	1.45E-03	5163	0.10	8.64E-04	7448	-0.26	6.13E-25	9689	-0.21	6.81E-03	12702	-0.24	1.70E-03
333	0.30	8.24E-28	2714	-0.30	5.94E-07	5164	-0.10	9.53E-05	7449	-0.12	3.05E-05	9694	0.22	4.69E-13	12705	-0.11	3.98E-05
334	0.10	7.72E-03	2715	0.10	2.17E-03	5165	0.10	5.83E-04	7450	-0.11	3.59E-03	9695	-0.32	6.44E-08	12706	0.10	1.48E-04
335	-0.20	4.32E-07	2716	-0.10	7.25E-03	5166	-0.10	7.60E-03	7453	-0.08	2.15E-03	9698	0.17	1.51E-12	12711	0.11	3.67E-04
336	-0.20	1.38E-12	2722	-0.20	5.41E-13	5172	-0.20	2.49E-13	7454	-0.15	5.85E-08	9699	-0.20	1.95E-12	12725	-0.30	1.71E-17
337	0.20	2.10E-12	2727	0.10	3.16E-06	5176	-0.40	4.25E-08	7460	0.19	1.15E-12	9700	0.11	1.06E-05	12728	-0.20	1.47E-06
343	-0.50	2.02E-10	2730	-0.30	3.42E-08	5179	-0.30	1.16E-07	7463	0.11	1.49E-04	9701	-0.19	3.81E-09	12740	-0.12	4.57E-06
345	-0.20	1.17E-06	2731	-0.30	5.40E-08	5185	0.10	1.69E-03	7464	-0.11	1.17E-03	9707	-0.16	2.37E-09	12742	-0.09	5.06E-03
348	-0.10	2.99E-03	2735	0.20	1.05E-13	5186	0.10	2.32E-04	7465	-0.09	6.08E-03	9711	-0.09	5.31E-06	12743	0.07	2.76E-03
349	-0.10	2.86E-03	2738	-0.10	4.38E-03	5187	0.10	9.29E-03	7471	-0.19	1.39E-12	9712	-0.24	3.23E-03	12752	-0.15	2.28E-07
353	0.10	1.86E-03	2739	-0.10	7.36E-03	5204	-0.20	5.17E-08	7476	-0.15	2.83E-03	9714	0.17	8.32E-12	12754	-0.12	1.20E-03

354	-0.20	3.67E-10	2742	-0.20	1.65E-04	5205	-0.10	1.30E-03	7477	-0.09	1.99E-04	9715	-0.20	3.91E-16	12766	-0.18	2.23E-05
359	0.10	1.22E-04	2743	0.20	1.36E-09	5207	0.30	2.53E-13	7478	-0.32	3.07E-07	9716	0.08	1.71E-03	12781	-0.16	7.35E-06
363	-0.20	4.05E-03	2746	0.10	1.15E-07	5209	0.10	1.47E-06	7486	-0.09	8.19E-04	9718	-0.14	1.72E-07	12788	-0.26	1.61E-05
364	-0.10	1.13E-03	2750	-0.30	3.17E-03	5218	-0.20	1.39E-03	7493	0.15	4.91E-09	9719	-0.12	1.22E-06	12794	-0.12	4.96E-06
366	-0.10	9.67E-03	2752	-0.30	6.41E-13	5219	0.20	2.10E-12	7495	-0.11	1.11E-03	9720	-0.12	1.87E-03	12795	0.08	1.54E-03
367	-0.10	5.22E-04	2754	0.20	5.90E-25	5221	0.10	4.35E-03	7496	-0.14	3.55E-07	9723	0.24	8.70E-08	12798	-0.13	1.76E-07
368	0.10	4.39E-03	2756	-0.30	8.98E-29	5223	0.10	2.98E-07	7499	-0.15	2.59E-04	9725	-0.09	3.59E-04	12799	0.31	1.66E-27
369	0.10	3.67E-03	2760	-0.20	2.09E-12	5226	0.10	4.16E-03	7502	-0.10	2.47E-04	9730	-0.22	1.35E-10	12804	-0.29	7.07E-07
370	0.20	2.99E-06	2761	-0.20	1.32E-12	5229	-0.10	2.07E-03	7503	-0.18	5.43E-09	9732	-0.24	2.61E-07	12814	-0.29	3.86E-06
372	-0.10	1.85E-03	2772	-0.20	6.28E-11	5230	0.30	2.97E-22	7504	-0.25	3.28E-08	9733	0.15	2.22E-09	12816	-0.24	6.70E-10
373	0.20	1.58E-05	2773	-0.20	2.68E-05	5231	0.10	4.17E-03	7506	-0.15	8.79E-09	9734	0.10	7.54E-03	12820	0.17	3.59E-04
376	-0.30	3.06E-09	2774	0.10	7.87E-04	5235	-0.20	5.88E-13	7507	-0.23	6.23E-12	9738	-0.12	2.66E-05	12826	0.10	5.89E-03
377	-0.30	6.38E-07	2781	0.20	2.56E-14	5237	0.10	2.88E-05	7508	-0.13	2.94E-03	9744	-0.10	9.18E-05	12827	-0.19	6.63E-05
380	0.10	8.30E-03	2782	0.10	4.27E-13	5239	-0.10	1.94E-05	7509	0.17	6.05E-11	9746	0.27	2.82E-14	12828	-0.16	8.41E-09
381	0.20	1.73E-10	2786	0.10	1.06E-06	5241	-0.10	1.10E-03	7515	-0.31	1.56E-18	9747	-0.26	9.63E-07	12833	-0.18	3.97E-10
382	0.10	2.08E-06	2789	0.20	3.01E-04	5242	0.10	7.96E-07	7516	-0.30	5.14E-19	9750	0.16	1.59E-08	12837	0.08	1.26E-03
386	-0.20	3.66E-04	2790	0.10	3.17E-06	5247	0.20	1.48E-09	7523	-0.16	1.65E-05	9757	-0.41	1.51E-06	12840	-0.31	3.11E-08
392	-0.10	4.78E-03	2791	0.10	4.98E-06	5249	-0.10	3.52E-05	7527	0.18	1.96E-07	9758	-0.23	3.38E-03	12847	-0.23	7.10E-06
393	0.20	6.29E-15	2795	0.10	2.74E-04	5251	-0.10	4.73E-03	7532	-0.19	2.57E-08	9763	0.16	1.85E-07	12849	-0.10	6.53E-05
394	-0.30	1.43E-21	2796	0.10	2.20E-07	5252	-0.10	3.48E-03	7533	0.13	2.11E-06	9766	0.23	1.20E-05	12850	0.15	2.97E-09
395	-0.10	2.33E-07	2799	0.10	2.53E-04	5253	0.10	3.85E-03	7537	0.08	4.15E-06	9767	-0.32	5.96E-07	12852	0.08	1.08E-03
396	-0.30	3.59E-15	2801	0.10	1.17E-03	5255	0.10	2.97E-06	7539	0.08	1.05E-04	9770	0.10	4.63E-04	12865	0.20	7.59E-05
397	0.20	8.63E-11	2816	-0.30	4.20E-08	5257	0.20	1.00E-03	7540	0.14	7.08E-08	9771	-0.16	2.66E-09	12868	-0.10	5.21E-05
404	0.20	3.88E-14	2817	-0.10	4.29E-04	5261	-0.20	8.70E-09	7545	0.21	3.06E-14	9774	-0.15	3.29E-08	12876	-0.18	4.10E-09
407	-0.10	6.29E-03	2821	-0.10	6.99E-03	5262	0.20	9.35E-06	7547	0.10	8.91E-05	9779	0.15	5.11E-04	12880	0.10	1.41E-03
408	-0.30	2.07E-13	2824	0.10	1.47E-04	5267	-0.20	3.73E-04	7548	-0.10	4.72E-05	9780	-0.17	4.86E-06	12881	0.10	1.39E-04
410	-0.20	1.17E-12	2828	0.10	4.98E-06	5273	-0.10	4.90E-05	7549	-0.20	5.96E-13	9781	-0.13	6.62E-06	12882	-0.19	4.36E-07
411	-0.20	6.03E-13	2829	-0.30	7.68E-12	5274	-0.10	3.84E-05	7552	0.15	5.80E-03	9782	-0.22	1.24E-16	12885	0.18	6.97E-14
412	-0.30	2.10E-11	2830	-0.30	1.89E-11	5275	-0.20	1.54E-12	7559	0.16	7.76E-09	9788	0.24	1.02E-08	12887	0.11	4.57E-05
415	-0.20	7.67E-10	2832	0.10	3.39E-04	5278	0.10	6.73E-04	7560	0.12	1.17E-06	9789	0.23	1.13E-12	12888	-0.13	2.24E-05
418	0.10	6.61E-03	2836	0.10	3.80E-05	5280	0.10	1.85E-03	7561	0.16	2.98E-10	9796	-0.25	1.63E-03	12889	0.18	2.14E-12
423	-0.10	9.17E-05	2838	-0.20	4.40E-13	5285	-0.20	4.45E-15	7563	-0.14	1.14E-03	9809	0.10	1.65E-04	12894	-0.13	5.13E-03
425	-0.20	5.29E-10	2839	-0.10	6.16E-03	5288	-0.20	2.81E-03	7564	-0.15	3.09E-09	9810	0.14	4.86E-08	12898	-0.07	3.59E-03
429	0.20	5.64E-10	2843	0.10	1.62E-06	5291	0.20	5.75E-07	7565	-0.16	1.23E-05	9815	0.15	1.57E-08	12902	-0.18	2.04E-10
433	-0.10	2.64E-06	2844	-0.30	1.13E-05	5293	-0.20	2.05E-06	7568	0.16	1.03E-06	9817	0.08	1.46E-05	12905	-0.24	9.82E-16
435	-0.10	4.94E-04	2845	-0.30	4.97E-05	5295	-0.20	1.15E-07	7569	0.10	6.38E-05	9818	0.09	1.23E-06	12909	-0.10	3.02E-04
443	0.10	2.23E-04	2848	-0.30	1.33E-22	5302	-0.20	3.71E-10	7570	-0.15	2.03E-10	9819	-0.13	5.73E-07	12927	-0.32	2.70E-34
444	-0.10	1.29E-04	2850	-0.20	1.96E-06	5307	0.10	3.61E-05	7571	0.08	2.99E-05	9820	0.10	1.62E-03	12929	-0.14	4.70E-07
447	-0.20	3.07E-09	2859	0.10	4.89E-08	5308	-0.10	9.18E-08	7572	0.10	3.49E-05	9822	-0.15	6.97E-07	12933	-0.14	4.53E-04
450	0.10	3.73E-05	2860	0.30	6.28E-09	5316	0.10	1.76E-04	7573	0.24	1.06E-15	9825	-0.12	4.50E-05	12938	-0.24	5.02E-06
465	-0.10	8.67E-03	2862	-0.20	3.10E-03	5317	0.30	4.23E-23	7575	-0.29	6.92E-10	9833	-0.17	5.39E-04	12940	0.15	3.12E-09
467	-0.20	2.79E-13	2866	-0.10	4.88E-05	5319	-0.20	1.54E-05	7578	-0.25	1.12E-14	9835	0.14	8.96E-06	12941	-0.15	6.38E-03
474	0.10	3.18E-03	2873	0.20	9.08E-06	5321	0.10	3.67E-03	7579	-0.07	9.68E-03	9837	-0.20	1.70E-06	12945	0.12	3.42E-05
476	0.30	1.79E-19	2874	-0.20	6.50E-10	5322	0.10	3.41E-03	7580	0.08	3.00E-03	9838	-0.15	1.05E-08	12948	-0.28	1.96E-11
478	0.20	1.50E-15	2878	-0.10	2.87E-06	5323	-0.10	1.99E-04	7581	-0.09	2.90E-06	9844	0.12	6.29E-04	12950	0.09	1.24E-04
479	-0.40	3.07E-10	2880	-0.20	6.56E-05	5326	-0.10	3.96E-06	7582	-0.18	2.24E-12	9847	0.09	1.87E-03	12952	0.14	9.40E-09
488	-0.20	7.94E-08	2882	0.20	5.18E-09	5329	-0.30	2.06E-10	7583	-0.21	1.53E-05	9851	-0.42	6.36E-13	12964	-0.12	1.49E-03
490	-0.20	1.86E-05	2887	-0.30	7.36E-05	5330	0.10	1.33E-04	7584	0.13	9.09E-07	9858	-0.19	1.61E-15	12977	0.19	2.50E-09
497	-0.30	5.77E-19	2888	-0.20	7.61E-13	5331	-0.10	7.26E-06	7594	-0.11	4.68E-04	9859	-0.23	1.61E-17	12979	-0.14	5.37E-06
499	0.30	2.30E-13	2889	0.10	1.33E-04	5333	-0.10	3.03E-05	7597	-0.09	5.16E-04	9860	-0.18	1.62E-07	12993	0.14	3.18E-08
505	0.10	7.86E-06	2890	0.20	4.23E-26	5334	-0.10	2.35E-05	7601	-0.21	3.65E-10	9863	-0.13	6.06E-04	12994	-0.18	7.52E-12
507	-0.10	5.14E-04	2896	-0.20	2.37E-09	5338	0.10	4.06E-05	7603	-0.14	4.71E-06	9866	-0.09	1.17E-03	12995	0.10	8.27E-05
508	0.20	1.01E-15	2899	0.20	9.11E-04	5339	0.10	2.62E-03	7605	-0.22	1.79E-12	9867	-0.20	1.18E-12	12998	0.09	3.14E-04
511	-0.20	5.01E-06	2900	0.10	4.61E-06	5343	0.10	2.34E-04	7606	0.13	8.86E-07	9868	-0.25	6.98E-15	13000	-0.25	8.15E-25
522	-0.20	1.12E-05	2901	-0.20	8.91E-10	5344	0.30	1.57E-27	7612	0.14	3.75E-04	9869	-0.13	9.74E-04	13002	-0.15	3.98E-07
529	-0.20	4.40E-05	2905	-0.10	4.62E-03	5345	0.30	2.87E-33	7619	0.07	2.89E-03	9870	0.10	2.59E-04	13003	-0.18	1.76E-08
531	0.20	2.63E-14	2907	-0.20	3.17E-10	5348	0.20	6.27E-07	7621	-0.12	2.66E-05	9874	-0.21	6.88E-14	13009	-0.13	2.45E-06
532	0.10	1.27E-06	2910	0.10	1.45E-03	5350	0.10	1.63E-05	7635	-0.25	7.25E-10	9876	0.21	1.12E-15	13010	0.12	1.16E-06

534	-0.20	1.18E-12	2914	0.20	5.40E-11	5353	0.20	9.05E-20	7644	-0.11	7.10E-06	9879	0.11	4.83E-06	13018	-0.10	1.45E-03
535	0.10	7.75E-04	2921	-0.20	1.46E-08	5360	0.10	1.59E-03	7645	-0.14	1.84E-03	9889	0.11	1.30E-03	13020	0.15	9.29E-10
537	0.20	9.68E-15	2922	0.10	9.17E-03	5361	-0.10	2.87E-03	7648	-0.28	4.91E-04	9891	0.15	7.28E-09	13022	-0.09	3.08E-04
539	-0.10	3.44E-05	2924	0.10	1.82E-08	5366	0.10	8.72E-05	7649	-0.25	1.04E-10	9894	-0.09	2.75E-04	13031	-0.28	1.48E-06
540	-0.20	6.97E-18	2927	0.10	2.17E-06	5367	-0.10	9.58E-05	7651	0.33	3.76E-07	9899	0.13	2.19E-07	13040	-0.14	2.13E-04
545	-0.10	5.17E-03	2932	0.20	2.66E-05	5368	0.10	3.64E-04	7652	-0.18	1.38E-06	9900	-0.20	8.32E-05	13043	0.14	6.65E-09
546	-0.10	9.52E-05	2935	-0.10	6.51E-03	5372	-0.20	2.55E-05	7657	0.08	1.63E-03	9902	-0.13	6.69E-03	13051	0.20	5.38E-16
550	0.20	2.13E-06	2941	-0.20	1.05E-10	5379	-0.20	9.88E-12	7658	-0.39	2.59E-06	9905	0.20	5.48E-05	13055	0.10	2.13E-04
552	0.10	1.88E-09	2946	0.10	4.26E-06	5381	0.20	3.54E-12	7659	-0.26	2.94E-11	9908	0.17	4.68E-12	13063	-0.12	8.87E-04
553	-0.10	3.03E-06	2954	-0.10	8.04E-07	5384	0.10	1.32E-03	7660	0.23	9.04E-13	9913	-0.18	1.51E-10	13065	-0.14	2.26E-06
561	-0.30	5.33E-20	2955	-0.30	1.55E-10	5390	0.10	1.31E-04	7663	-0.15	1.81E-03	9914	-0.20	8.23E-04	13070	-0.29	1.39E-04
563	0.10	1.81E-05	2959	-0.30	1.73E-24	5391	-0.10	2.84E-06	7665	0.23	6.74E-20	9917	-0.17	2.13E-08	13072	-0.19	6.97E-04
565	0.20	6.37E-14	2961	-0.20	8.36E-05	5397	0.10	7.95E-05	7668	-0.14	7.75E-04	9919	0.18	4.25E-11	13075	0.14	1.34E-08
570	-0.10	9.47E-08	2965	0.10	1.38E-04	5398	-0.10	9.00E-03	7669	0.08	4.82E-03	9921	0.13	1.41E-05	13083	-0.08	3.32E-03
578	0.10	2.47E-06	2968	-0.10	1.25E-03	5399	-0.20	4.76E-14	7676	-0.11	1.34E-03	9922	-0.16	9.38E-08	13086	-0.27	5.16E-05
580	-0.20	7.36E-16	2971	-0.20	1.60E-15	5401	0.10	7.34E-04	7679	0.07	4.11E-03	9925	0.10	4.12E-05	13089	-0.21	1.14E-08
582	0.20	8.71E-13	2974	-0.30	2.26E-12	5402	-0.10	2.15E-10	7684	-0.09	6.28E-03	9927	0.28	3.68E-17	13097	0.07	7.10E-03
583	-0.10	4.20E-03	2983	0.00	9.16E-03	5405	-0.10	4.25E-03	7688	-0.13	9.12E-07	9928	0.18	1.48E-06	13107	-0.10	1.59E-04
586	-0.10	3.41E-06	2995	0.20	1.02E-18	5406	-0.10	3.00E-03	7689	0.22	8.85E-21	9932	-0.13	5.60E-05	13108	0.15	2.49E-09
588	-0.20	1.34E-04	2997	0.10	6.34E-05	5414	-0.30	6.93E-25	7690	-0.21	2.76E-16	9936	0.10	3.55E-06	13109	0.12	6.46E-06
592	0.20	1.04E-18	2998	-0.10	3.61E-05	5418	0.10	4.32E-07	7691	-0.21	1.03E-16	9945	-0.13	2.43E-07	13111	0.16	1.50E-10
595	-0.20	1.40E-10	3000	-0.10	8.53E-03	5419	0.20	5.66E-11	7693	-0.17	1.29E-06	9946	0.22	7.12E-18	13113	-0.07	3.63E-03
607	0.10	6.25E-03	3003	0.20	8.77E-09	5422	0.10	8.25E-04	7699	0.10	1.21E-03	9951	-0.10	1.55E-03	13122	-0.09	7.06E-03
614	-0.20	1.99E-10	3004	0.10	4.41E-03	5426	-0.10	2.76E-03	7703	0.10	1.79E-04	9952	0.11	5.09E-05	13123	-0.22	8.19E-07
615	0.10	5.86E-05	3008	0.10	6.01E-05	5427	-0.10	2.80E-03	7721	-0.28	4.90E-14	9953	0.10	1.16E-03	13124	-0.06	1.44E-03
617	-0.10	4.94E-06	3010	-0.10	3.88E-04	5429	0.20	1.74E-09	7722	-0.47	3.28E-17	9954	0.12	2.50E-03	13126	-0.19	8.23E-12
620	0.10	3.08E-08	3015	0.10	2.59E-04	5431	-0.20	2.91E-04	7723	-0.16	1.50E-04	9956	0.15	1.50E-05	13128	-0.27	1.83E-07
623	0.10	2.64E-04	3026	-0.10	3.81E-06	5432	0.20	2.97E-21	7724	0.10	2.92E-04	9957	-0.19	7.04E-10	13132	0.12	4.48E-07
628	0.10	8.35E-03	3027	-0.20	3.63E-06	5435	0.10	1.14E-04	7725	0.11	5.81E-07	9959	0.24	5.16E-22	13139	0.25	6.78E-17
629	0.30	2.13E-20	3028	0.10	4.31E-04	5440	-0.20	9.68E-05	7727	0.21	6.42E-17	9961	0.16	9.05E-11	13142	-0.26	3.32E-08
633	0.10	1.09E-03	3029	-0.20	4.53E-03	5446	0.10	4.49E-09	7729	0.12	4.12E-05	9963	-0.08	1.13E-03	13143	0.29	1.84E-24
636	0.10	1.65E-04	3031	0.20	2.35E-06	5453	-0.20	3.46E-03	7732	-0.15	2.51E-08	9964	0.18	2.91E-11	13149	0.22	3.24E-14
637	-0.10	1.21E-07	3033	-0.40	4.22E-11	5461	-0.10	4.86E-05	7733	-0.10	7.67E-04	9973	-0.09	1.59E-03	13151	-0.19	1.77E-05
640	-0.10	1.19E-03	3034	0.20	2.34E-08	5463	-0.10	2.64E-04	7736	-0.21	3.50E-04	9975	-0.11	3.91E-08	13153	-0.08	2.90E-03
644	0.30	2.56E-27	3037	-0.20	7.02E-11	5465	0.10	6.95E-06	7737	-0.19	5.69E-14	9982	-0.19	4.01E-13	13161	-0.26	1.72E-26
645	-0.10	9.19E-03	3040	-0.10	2.86E-06	5466	-0.20	3.16E-09	7738	0.19	3.03E-17	9987	-0.14	1.72E-07	13171	0.10	8.24E-03
647	0.10	4.07E-05	3042	0.10	4.27E-04	5470	-0.20	9.11E-16	7742	-0.12	3.99E-06	9993	-0.11	1.83E-09	13173	0.09	6.51E-04
648	0.10	2.22E-03	3044	-0.30	4.53E-16	5473	-0.20	3.72E-10	7743	0.08	1.08E-03	9994	0.08	6.04E-04	13184	-0.22	1.80E-10
649	0.10	3.67E-07	3048	0.30	2.06E-19	5475	0.20	2.51E-05	7745	0.18	2.90E-13	9995	0.27	2.69E-29	13188	-0.09	4.45E-03
652	0.10	7.84E-06	3050	-0.30	6.90E-17	5477	0.10	4.79E-03	7747	0.11	3.15E-05	9998	0.07	5.36E-03	13191	-0.18	1.47E-06
655	0.10	3.05E-05	3053	0.20	1.24E-08	5480	0.20	1.47E-09	7748	-0.26	4.73E-04	10001	0.11	2.51E-05	13194	0.09	7.77E-04
657	-0.10	4.38E-07	3057	-0.10	5.09E-05	5483	0.10	4.53E-03	7750	0.23	1.25E-11	10002	-0.15	4.02E-06	13199	-0.13	3.21E-05
660	0.10	7.62E-03	3068	0.10	3.54E-05	5485	-0.20	3.36E-04	7751	0.22	1.33E-12	10003	-0.19	5.70E-13	13200	0.16	7.91E-07
663	-0.20	2.72E-13	3069	0.10	4.95E-06	5486	-0.20	3.47E-04	7753	0.21	6.20E-13	10006	-0.14	6.89E-08	13207	0.10	2.80E-03
664	-0.20	1.64E-22	3072	0.10	2.91E-05	5491	0.20	1.92E-09	7754	0.08	9.73E-04	10011	-0.21	2.24E-15	13211	-0.19	1.02E-03
668	-0.20	1.34E-12	3077	0.10	1.23E-04	5493	-0.10	6.68E-05	7755	0.09	1.14E-07	10015	-0.08	3.38E-04	13212	0.11	6.84E-05
672	0.10	1.49E-09	3079	-0.20	4.39E-10	5494	-0.10	7.64E-04	7756	0.13	7.21E-03	10019	0.09	1.01E-03	13214	0.11	1.38E-05
678	0.10	3.11E-05	3085	-0.10	3.63E-04	5495	0.20	1.53E-05	7759	-0.14	9.27E-08	10021	-0.12	9.54E-05	13215	0.07	4.83E-03
681	0.20	2.94E-11	3089	-0.20	1.65E-09	5499	0.10	3.06E-05	7760	0.12	8.53E-03	10026	-0.17	7.96E-11	13230	-0.14	8.21E-08
688	0.10	4.72E-08	3091	0.10	7.57E-04	5501	0.20	2.64E-11	7761	0.10	1.11E-03	10031	-0.15	1.00E-03	13238	-0.09	3.00E-04
690	-0.20	7.69E-13	3092	0.20	2.81E-04	5502	0.20	3.64E-11	7763	-0.10	1.33E-03	10033	0.06	6.65E-03	13243	0.10	8.78E-03
693	0.20	7.41E-07	3094	-0.10	2.67E-03	5505	-0.30	7.73E-08	7770	0.11	2.17E-03	10035	0.12	1.64E-05	13249	-0.07	4.97E-03
696	0.10	5.13E-05	3100	-0.20	3.65E-08	5509	0.10	1.35E-04	7773	0.09	9.28E-03	10036	-0.17	1.24E-09	13250	0.09	9.07E-03
697	0.10	3.43E-03	3102	0.10	9.03E-04	5511	-0.20	2.08E-12	7777	-0.24	7.52E-18	10039	-0.14	1.97E-07	13254	0.15	2.44E-08
699	-0.20	2.06E-03	3103	-0.10	8.34E-04	5512	-0.10	2.65E-03	7779	-0.19	7.78E-03	10041	0.24	9.35E-09	13255	-0.08	4.03E-03
703	0.20	1.40E-10	3104	-0.10	1.23E-03	5513	-0.20	2.36E-10	7781	0.19	1.33E-13	10043	-0.25	1.63E-03	13258	-0.18	1.82E-04
705	-0.10	4.91E-04	3112	0.10	2.66E-04	5514	0.10	1.54E-03	7782	-0.10	1.46E-03	10046	-0.08	4.81E-03	13264	-0.14	3.84E-08
707	0.20	1.83E-11	3118	-0.20	6.30E-07	5518	-0.20	4.97E-05	7785	-0.23	2.79E-09	10053	-0.26	4.97E-08	13276	0.17	1.06E-12

708	0.10	1.31E-03	3122	0.10	1.30E-03	5520	0.10	8.70E-05	7788	0.13	1.40E-07	10056	0.15	5.74E-06	13279	-0.30	2.14E-06
714	0.10	5.47E-03	3124	-0.30	3.92E-25	5521	-0.10	5.61E-03	7797	0.09	7.29E-04	10059	-0.08	3.14E-03	13292	0.17	3.46E-05
718	-0.20	3.55E-15	3125	-0.20	5.55E-10	5522	-0.30	5.68E-22	7807	-0.08	4.53E-03	10061	0.14	1.58E-04	13296	0.15	5.49E-06
722	0.10	7.31E-03	3129	0.20	3.74E-12	5525	-0.10	2.66E-03	7808	-0.22	1.56E-04	10062	-0.26	1.54E-24	13302	0.10	4.54E-05
723	-0.10	1.43E-03	3131	0.10	1.33E-06	5527	0.20	4.64E-11	7810	-0.12	1.92E-05	10064	-0.27	4.69E-04	13305	-0.31	4.92E-16
724	-0.20	2.41E-12	3133	0.10	1.33E-04	5535	-0.10	3.03E-03	7812	-0.15	1.14E-03	10066	-0.12	8.90E-07	13306	-0.17	9.81E-03
730	-0.20	7.83E-07	3139	-0.10	8.61E-03	5536	-0.10	1.41E-05	7813	-0.14	1.54E-03	10067	0.09	1.68E-06	13308	-0.15	6.34E-03
735	0.10	7.71E-07	3142	0.10	9.38E-10	5537	-0.10	4.29E-04	7815	-0.19	1.48E-10	10069	-0.08	1.13E-03	13310	0.15	3.20E-09
736	0.20	8.45E-12	3143	-0.10	7.01E-06	5539	-0.10	2.82E-03	7816	-0.14	4.49E-06	10074	-0.14	1.45E-04	13312	-0.09	1.19E-03
741	0.20	1.13E-04	3144	-0.20	9.37E-12	5541	-0.10	2.31E-03	7822	-0.31	8.15E-33	10076	-0.12	3.36E-06	13315	-0.40	4.59E-05
742	0.20	8.46E-05	3145	-0.20	6.43E-12	5546	-0.10	1.47E-03	7823	0.19	6.88E-15	10077	-0.15	5.65E-15	13318	-0.13	1.24E-03
746	-0.20	4.91E-03	3146	0.10	2.97E-05	5552	-0.10	2.91E-06	7827	-0.23	1.23E-14	10079	0.16	2.70E-06	13326	0.13	8.86E-04
747	0.10	7.74E-03	3149	0.10	3.75E-06	5560	-0.10	7.00E-04	7828	-0.27	2.28E-16	10080	-0.14	5.06E-06	13328	0.28	1.59E-18
749	-0.10	3.47E-04	3151	-0.10	6.52E-04	5565	0.10	2.82E-03	7841	0.31	2.29E-11	10082	-0.08	3.42E-03	13332	-0.14	2.45E-03
753	-0.20	6.42E-11	3152	0.10	1.03E-05	5570	0.30	2.07E-31	7843	0.14	3.92E-08	10084	0.27	2.07E-16	13340	-0.11	5.65E-03
754	0.10	8.36E-05	3153	-0.20	1.11E-09	5571	0.20	1.75E-04	7849	-0.14	1.56E-03	10087	-0.08	3.58E-03	13352	-0.13	4.77E-06
760	-0.50	4.39E-11	3158	-0.10	2.70E-07	5572	0.10	2.64E-03	7854	-0.33	4.61E-11	10092	-0.35	1.81E-38	13355	-0.11	1.09E-05
761	0.20	3.87E-10	3160	-0.10	2.00E-03	5574	-0.20	9.99E-12	7856	-0.08	5.05E-03	10094	-0.14	7.83E-03	13365	-0.24	9.37E-05
762	0.10	3.15E-05	3161	-0.10	1.89E-03	5577	0.20	2.47E-05	7857	-0.14	7.82E-04	10095	0.08	1.49E-05	13367	0.12	5.69E-07
765	-0.20	6.34E-05	3165	-0.30	7.36E-19	5578	0.20	9.41E-08	7858	-0.19	1.80E-10	10102	0.15	5.08E-06	13368	-0.17	8.93E-04
766	0.20	3.08E-15	3166	-0.10	4.90E-06	5579	-0.10	6.29E-04	7860	-0.32	1.16E-15	10103	-0.13	3.70E-07	13372	-0.10	1.12E-04
767	-0.20	4.52E-03	3167	-0.10	1.89E-03	5580	-0.20	7.20E-15	7861	-0.17	4.68E-07	10104	-0.07	8.13E-03	13378	-0.31	2.22E-08
768	0.10	8.06E-04	3168	0.10	4.09E-05	5583	-0.20	1.91E-03	7862	0.09	6.17E-04	10107	-0.18	8.57E-11	13381	-0.17	1.99E-04
769	-0.20	1.21E-16	3170	0.10	5.34E-06	5585	0.10	1.23E-04	7863	0.15	8.14E-09	10114	0.17	5.63E-06	13382	0.20	7.67E-08
770	-0.20	2.92E-03	3177	-0.20	8.35E-07	5590	0.20	4.81E-14	7869	-0.26	1.05E-05	10115	-0.08	4.97E-03	13384	-0.08	4.31E-03
772	-0.10	1.01E-03	3178	-0.10	3.96E-05	5592	0.10	1.29E-05	7871	0.28	2.72E-20	10117	-0.13	1.64E-06	13404	-0.19	2.78E-03
773	0.10	9.47E-05	3180	-0.10	1.11E-07	5593	-0.20	5.16E-09	7873	0.15	7.39E-09	10119	-0.16	4.61E-10	13406	-0.09	1.89E-03
774	-0.20	6.93E-05	3183	-0.20	1.05E-10	5596	-0.20	2.03E-07	7874	0.11	2.59E-05	10120	0.16	4.22E-04	13407	0.10	2.17E-04
776	0.20	5.41E-24	3184	0.20	1.03E-15	5597	-0.20	2.75E-07	7875	-0.15	3.65E-06	10124	-0.16	5.08E-10	13411	0.08	4.61E-03
777	-0.20	1.38E-05	3188	-0.10	8.48E-05	5599	-0.10	3.72E-03	7876	-0.17	1.37E-09	10127	-0.12	2.73E-03	13413	0.09	5.00E-03
778	0.10	7.93E-03	3189	-0.30	1.81E-25	5602	-0.20	6.47E-16	7877	-0.10	1.58E-04	10129	0.10	7.12E-05	13434	0.15	2.57E-08
779	-0.40	2.19E-26	3190	0.20	3.98E-14	5605	-0.30	7.85E-09	7879	-0.20	1.78E-11	10132	0.13	1.38E-05	13441	0.09	4.48E-04
781	0.10	2.07E-03	3191	-0.20	1.82E-08	5606	-0.30	5.52E-08	7885	0.16	2.21E-05	10134	-0.25	4.89E-05	13448	0.09	1.11E-03
782	-0.10	2.53E-04	3192	-0.20	1.88E-08	5608	-0.30	1.97E-28	7888	0.07	4.26E-03	10138	-0.22	1.52E-03	13457	-0.17	2.49E-08
784	-0.20	1.43E-06	3196	-0.10	2.75E-04	5611	-0.10	9.10E-04	7889	-0.18	3.77E-13	10139	-0.30	3.43E-34	13460	0.14	5.89E-04
785	0.10	6.21E-04	3199	-0.10	8.84E-04	5614	-0.20	1.52E-04	7891	-0.12	7.95E-06	10140	0.18	9.11E-07	13466	-0.13	4.57E-07
788	-0.20	2.43E-04	3200	0.10	2.69E-03	5617	-0.10	6.36E-03	7894	0.08	5.33E-03	10147	0.08	2.05E-03	13472	-0.20	3.79E-04
790	0.20	6.73E-10	3205	-0.20	8.72E-05	5619	0.20	1.22E-16	7895	0.15	3.13E-03	10148	-0.16	1.99E-10	13475	-0.07	9.90E-03
793	0.20	5.78E-14	3206	0.30	2.12E-08	5621	0.10	3.18E-03	7899	-0.07	8.75E-03	10156	-0.14	8.08E-03	13484	0.13	4.87E-05
794	0.20	1.45E-08	3210	0.10	7.69E-04	5622	0.10	3.09E-03	7900	-0.29	5.93E-16	10157	-0.23	7.16E-19	13485	0.24	7.18E-11
799	0.20	7.32E-05	3213	-0.20	9.85E-05	5623	0.20	9.16E-14	7901	0.11	3.18E-05	10158	0.13	1.35E-05	13486	0.10	2.63E-03
801	-0.40	7.91E-14	3218	-0.20	8.01E-15	5624	-0.10	1.95E-05	7908	-0.13	4.49E-07	10160	0.23	9.33E-22	13491	-0.40	2.97E-05
808	-0.20	4.92E-18	3220	0.20	6.16E-13	5625	-0.20	1.22E-09	7911	-0.28	1.83E-04	10161	-0.21	9.69E-08	13495	0.14	2.42E-07
811	0.10	1.78E-03	3222	0.10	9.32E-06	5626	0.10	4.58E-06	7914	0.12	1.55E-06	10162	-0.27	1.59E-21	13496	-0.10	5.07E-04
812	0.30	1.03E-16	3227	-0.20	1.60E-05	5627	0.20	1.39E-08	7915	0.12	2.20E-06	10163	0.08	3.80E-03	13501	-0.08	8.72E-04
827	0.10	1.14E-06	3235	-0.10	1.54E-03	5637	0.10	1.51E-03	7916	0.16	2.64E-09	10164	-0.08	2.39E-03	13512	0.07	4.87E-03
829	0.30	6.06E-17	3237	-0.10	8.49E-03	5638	0.10	5.69E-05	7921	-0.11	4.88E-03	10165	0.10	4.65E-04	13517	-0.21	3.34E-10
833	-0.30	6.98E-05	3239	-0.10	1.27E-03	5639	-0.20	2.20E-14	7924	0.07	1.72E-03	10171	-0.12	2.78E-03	13519	0.24	6.38E-08
837	-0.20	1.21E-09	3240	-0.10	1.21E-03	5646	-0.10	8.88E-03	7927	0.10	9.50E-05	10174	0.09	3.64E-04	13523	0.18	6.33E-09
840	-0.30	9.46E-15	3241	-0.20	1.36E-07	5647	-0.10	3.79E-06	7929	-0.12	1.05E-04	10175	0.09	3.31E-04	13526	0.07	3.90E-03
844	0.10	2.31E-06	3245	0.10	2.58E-07	5648	-0.10	3.23E-04	7931	-0.09	6.34E-03	10176	0.15	3.38E-09	13527	-0.29	3.10E-30
846	-0.20	9.20E-07	3248	-0.20	1.73E-07	5666	-0.20	6.72E-03	7939	0.19	2.32E-13	10177	0.19	7.28E-13	13529	0.15	1.29E-06
849	0.10	8.06E-03	3253	0.10	3.07E-03	5668	-0.10	9.01E-07	7940	0.10	2.50E-04	10182	0.17	1.59E-06	13538	-0.21	5.74E-14
850	-0.10	8.29E-05	3258	0.10	3.57E-08	5670	0.20	5.07E-11	7941	0.08	8.47E-03	10183	-0.23	3.13E-03	13540	-0.33	4.08E-05
854	-0.10	3.79E-06	3263	0.10	5.91E-05	5674	-0.40	5.90E-26	7942	-0.16	1.07E-10	10187	-0.10	3.94E-05	13542	-0.09	4.75E-03
858	-0.20	1.12E-09	3266	0.10	7.56E-05	5677	0.20	5.74E-13	7950	-0.11	1.09E-05	10193	-0.10	6.70E-04	13561	-0.10	3.29E-03
864	0.20	1.09E-15	3270	0.10	2.78E-03	5680	-0.10	1.37E-03	7951	0.09	2.05E-03	10194	-0.13	2.81E-06	13565	-0.21	1.56E-15
865	0.10	6.74E-06	3272	0.20	4.03E-06	5682	0.10	2.89E-07	7952	0.10	1.78E-04	10195	0.11	4.22E-03	13578	0.23	4.96E-18

867	-0.20	3.59E-09
870	0.10	2.31E-08
871	-0.10	6.95E-05
873	-0.10	1.05E-06
875	-0.20	1.14E-07
876	-0.10	1.40E-03
879	-0.10	3.81E-03
882	-0.10	8.27E-05
883	0.10	5.21E-04
885	-0.20	2.50E-09
887	0.10	3.57E-03
888	-0.10	1.70E-03
894	-0.20	5.34E-05
896	0.10	2.83E-03
900	0.10	2.04E-06
901	-0.10	9.89E-04
910	-0.20	3.17E-04
912	0.20	1.54E-05
915	0.10	1.54E-04
916	0.10	1.70E-03
919	0.20	2.83E-06
928	0.20	2.86E-21
934	-0.20	8.55E-11
936	-0.10	2.18E-04
937	-0.20	8.15E-04
939	0.20	2.34E-12
942	-0.20	7.14E-05
944	-0.20	8.29E-06
945	0.20	7.86E-25
949	-0.30	1.89E-22
951	-0.10	3.98E-04
954	0.30	4.72E-26
957	0.10	1.19E-03
958	0.10	1.10E-03
960	-0.10	9.81E-04
962	0.20	8.23E-09
963	-0.40	4.27E-16
964	0.10	6.97E-04
973	-0.10	7.49E-03
975	0.10	1.23E-08
977	0.10	1.66E-03
979	0.20	4.42E-11
980	0.10	8.21E-03
983	-0.10	1.39E-03
984	0.20	1.18E-13
989	0.10	2.03E-03
991	-0.10	3.87E-03
994	-0.10	3.41E-04
996	0.10	5.50E-03
998	0.10	1.25E-04
1001	0.10	5.76E-03
1004	-0.20	8.14E-06
1006	-0.10	7.02E-03
1009	-0.10	2.08E-07
1010	-0.10	1.31E-04
1012	0.20	3.21E-14
1016	-0.20	3.06E-18
1021	0.10	8.37E-05

3281	-0.20	1.11E-06
3286	0.10	1.55E-09
3289	-0.10	1.78E-03
3299	0.10	9.72E-03
3302	0.10	8.30E-07
3303	0.10	9.10E-07
3310	0.10	1.51E-07
3312	-0.20	1.27E-17
3313	-0.20	2.05E-16
3315	-0.10	3.23E-03
3317	0.30	1.24E-22
3318	0.10	1.29E-03
3321	0.20	1.99E-11
3322	-0.20	1.80E-13
3325	-0.20	4.04E-03
3327	-0.20	2.14E-06
3328	0.10	2.51E-03
3333	0.10	6.66E-03
3334	-0.20	1.40E-06
3340	0.10	5.48E-05
3341	-0.20	5.14E-07
3343	-0.10	5.17E-04
3344	-0.10	3.81E-09
3353	0.20	5.11E-12
3359	-0.20	3.09E-10
3367	0.20	2.39E-06
3371	0.20	5.06E-23
3372	-0.20	1.52E-12
3374	-0.10	1.02E-04
3379	-0.30	1.52E-12
3390	0.10	7.12E-03
3391	0.20	3.14E-13
3392	0.30	1.69E-14
3394	0.10	2.30E-04
3395	0.20	5.72E-09
3396	-0.20	7.08E-09
3406	-0.10	7.58E-04
3407	0.20	2.55E-12
3408	-0.10	7.87E-03
3415	0.10	2.29E-03
3416	0.10	4.64E-03
3417	0.20	1.13E-13
3418	0.10	3.47E-04
3419	0.10	7.78E-04
3420	0.20	2.62E-11
3423	0.10	1.09E-08
3424	0.10	1.55E-03
3438	-0.10	2.50E-09
3439	-0.20	5.32E-07
3442	-0.10	3.55E-03
3444	-0.20	8.06E-05
3446	0.20	2.77E-05
3448	0.10	9.45E-05
3451	0.10	2.31E-03
3455	-0.10	3.18E-05
3465	0.10	6.04E-04
3466	0.10	5.68E-04
3467	0.20	7.12E-14

5684	0.20	1.27E-05
5688	-0.20	2.26E-07
5691	0.20	1.43E-08
5693	-0.10	2.79E-04
5695	0.10	1.86E-03
5701	0.10	5.26E-04
5703	0.30	4.20E-28
5704	0.10	5.31E-09
5705	0.10	1.45E-03
5707	-0.20	3.37E-09
5708	-0.30	4.83E-10
5710	0.10	3.53E-04
5711	-0.10	4.48E-06
5713	0.10	1.72E-07
5714	0.10	2.08E-03
5715	-0.20	1.85E-07
5722	-0.20	5.02E-04
5723	-0.20	8.19E-07
5731	0.10	4.08E-04
5737	-0.10	6.53E-03
5739	0.10	6.13E-04
5741	-0.20	1.99E-10
5742	-0.20	1.81E-10
5746	0.10	4.76E-05
5752	0.10	5.16E-07
5753	-0.30	3.29E-09
5754	0.20	8.23E-23
5756	0.10	8.09E-06
5760	0.10	2.83E-04
5761	0.10	1.83E-07
5762	0.10	1.66E-07
5763	0.20	8.16E-05
5764	0.20	2.07E-07
5768	-0.10	8.59E-06
5774	-0.30	2.62E-04
5775	0.10	2.86E-07
5777	0.10	2.96E-04
5781	0.10	5.93E-03
5784	-0.20	3.54E-06
5785	-0.30	1.78E-13
5788	-0.10	1.14E-03
5790	-0.10	1.91E-03
5791	-0.20	1.56E-12
5792	0.10	4.96E-03
5796	-0.20	3.40E-09
5798	-0.10	1.14E-05
5800	-0.10	1.35E-06
5806	-0.40	4.91E-17
5807	0.10	6.21E-06
5808	0.30	8.70E-09
5809	-0.20	3.71E-03
5815	-0.20	5.19E-06
5816	-0.20	1.12E-04
5819	-0.20	2.77E-08
5821	-0.20	1.23E-12
5822	-0.20	8.76E-06
5825	-0.30	6.32E-13
5828	-0.10	1.97E-03

7954	-0.15	8.32E-05
7956	-0.12	1.92E-05
7959	-0.15	8.60E-09
7963	0.10	2.42E-03
7964	0.14	2.01E-08
7965	0.28	1.58E-29
7966	-0.23	4.37E-13
7974	0.18	6.56E-06
7981	0.12	1.30E-04
7982	0.25	1.68E-18
7983	0.14	1.09E-06
7987	-0.19	1.98E-03
7997	0.15	8.35E-06
8002	-0.11	2.41E-03
8006	-0.14	1.07E-07
8007	-0.39	9.27E-05
8009	-0.15	2.34E-07
8012	-0.30	4.83E-13
8013	-0.21	1.17E-06
8015	0.14	1.71E-04
8016	-0.10	1.94E-03
8018	0.17	6.89E-08
8022	-0.15	4.61E-05
8024	-0.18	7.63E-11
8025	-0.26	1.51E-07
8026	0.11	2.82E-03
8028	-0.21	4.36E-09
8031	0.17	1.30E-06
8032	-0.18	4.84E-13
8034	0.14	4.81E-09
8035	0.14	5.42E-09
8037	-0.25	6.78E-10
8038	0.16	2.44E-03
8040	0.19	1.84E-10
8044	0.10	2.60E-08
8046	0.09	9.10E-04
8048	-0.14	3.97E-06
8052	0.14	4.60E-08
8054	0.08	4.40E-03
8055	0.24	3.36E-15
8060	-0.11	5.92E-06
8062	-0.20	1.59E-11
8063	-0.20	4.54E-12
8066	-0.11	9.22E-04
8067	0.07	5.80E-03
8070	0.11	8.59E-06
8073	0.09	2.15E-03
8075	-0.15	2.65E-09
8083	-0.07	5.31E-03
8085	-0.16	3.24E-07
8086	0.10	1.00E-04
8087	-0.17	2.82E-10
8089	0.25	2.66E-13
8090	0.17	6.39E-07
8094	0.28	6.92E-27
8098	0.07	9.98E-03
8100	0.15	2.64E-07
8101	-0.11	1.22E-03

10196	-0.27	2.76E-05
10198	0.16	2.47E-08
10199	0.26	7.95E-28
10200	0.25	4.35E-19
10203	-0.07	8.51E-03
10204	0.13	8.05E-06
10206	0.11	4.96E-05
10212	-0.12	7.67E-04
10225	0.18	2.50E-04
10231	0.16	2.77E-06
10245	0.11	6.78E-05
10248	0.12	4.46E-05
10258	-0.16	6.49E-06
10265	-0.21	1.03E-05
10266	0.15	2.71E-07
10269	-0.23	2.82E-06
10271	-0.07	3.88E-05
10272	0.11	8.09E-04
10274	-0.27	2.12E-14
10280	0.17	2.86E-09
10283	-0.19	2.44E-09
10286	-0.20	1.19E-11
10288	0.18	8.82E-07
10290	0.12	2.06E-05
10291	-0.22	1.76E-16
10292	-0.17	2.71E-04
10296	0.08	4.11E-03
10299	0.18	1.07E-08
10300	-0.16	1.54E-06
10302	0.18	2.16E-13
10304	-0.19	3.52E-10
10305	-0.15	2.33E-09
10313	-0.07	6.14E-03
10314	0.16	5.20E-04
10315	-0.14	9.37E-05
10317	-0.13	9.77E-05
10322	0.07	5.93E-03
10324	-0.10	1.42E-05
10327	-0.19	3.90E-08
10328	0.09	1.00E-03
10332	-0.09	9.27E-03
10341	-0.18	3.55E-09
10342	0.10	2.73E-03
10343	0.08	1.37E-03
10353	0.23	2.62E-10
10358	-0.16	4.25E-06
10362	-0.17	1.34E-09
10363	0.17	1.38E-10
10366	-0.09	7.07E-03
10367	0.11	1.71E-05
10368	0.15	6.35E-05
10370	0.17	6.38E-13
10371	-0.08	5.03E-03
10372	-0.06	3.99E-03
10374	-0.19	8.79E-15
10375	-0.19	1.28E-09
10378	-0.10	5.26E-04
10379	-0.10	4.42E-04

13580	-0.13	9.21E-03
13583	0.11	1.69E-05
13584	-0.08	4.78E-03
13592	-0.24	6.60E-04
13608	0.24	1.39E-22
13609	0.17	7.12E-10
13612	-0.09	1.50E-03
13615	0.10	3.30E-03
13626	-0.27	1.13E-04
13629	0.20	3.25E-17
13631	-0.09	9.45E-03
13632	-0.13	8.62E-04
13635	-0.14	4.69E-09
13637	-0.20	2.87E-11
13642	0.07	8.74E-03
13654	-0.10	1.73E-03
13656	-0.14	8.59E-11
13663	-0.14	1.74E-07
13668	0.24	9.09E-12
13672	0.11	6.15E-03
13689	-0.25	2.54E-06
13700	-0.11	1.68E-04
13702	-0.17	1.94E-08
13706	0.22	3.46E-10
13707	-0.42	4.27E-14
13710	0.09	5.34E-05
13711	0.22	6.69E-06
13712	-0.10	1.06E-04
13713	-0.09	3.96E-04
13724	-0.08	4.66E-04
13725	0.12	2.67E-03
13727	-0.15	3.81E-06
13737	0.09	1.63E-03
13740	0.12	4.37E-06
13741	-0.09	1.50E-03
13743	-0.14	1.38E-03
13747	-0.07	4.64E-03
13755	0.10	7.50E-03
13763	-0.18	5.28E-04
13767	-0.08	1.04E-03
13769	-0.20	3.54E-04
13772	0.13	2.54E-07
13777	0.12	4.81E-04
13783	-0.15	7.39E-09
13784	-0.17	1.16E-03
13786	0.15	4.13E-03
13791	0.17	2.12E-12
13793	-0.21	1.69E-11
13795	0.19	1.79E-13
13805	0.07	8.13E-03
13812	-0.10	6.40E-05
13813	-0.17	1.36E-11
13814	-0.23	1.26E-07
13831	-0.11	2.92E-05
13832	0.08	6.05E-03
13839	-0.15	2.75E-06
13843	-0.13	2.55E-03
13847	-0.10	1.50E-03

1028	-0.20	2.03E-04
1029	-0.10	2.84E-06
1031	-0.20	5.08E-09
1035	-0.10	2.35E-05
1037	-0.20	2.64E-07
1039	-0.10	4.13E-03
1049	-0.20	1.12E-09
1050	-0.10	6.05E-03
1052	-0.10	4.83E-03
1056	0.20	1.62E-11
1057	0.10	3.20E-03
1062	-0.10	1.87E-03
1063	0.10	5.16E-04
1065	-0.10	1.37E-04
1068	-0.10	2.71E-05
1069	-0.10	9.64E-06
1072	0.10	7.70E-05
1075	-0.20	1.64E-04
1084	0.20	4.37E-14
1089	-0.10	8.04E-07
1094	0.20	1.13E-16
1097	-0.20	6.33E-17
1098	-0.10	1.24E-08
1099	-0.10	6.51E-04
1100	-0.20	6.92E-09
1104	0.10	4.14E-03
1105	-0.10	3.52E-04
1108	-0.10	8.52E-06
1110	-0.30	7.21E-31
1113	-0.10	1.05E-04
1121	-0.10	6.04E-05
1125	-0.10	9.14E-04
1128	-0.10	7.41E-04
1129	-0.10	4.69E-04
1133	-0.20	6.42E-03
1139	0.10	5.74E-05
1140	0.20	9.63E-18
1141	0.10	1.71E-05
1142	-0.10	4.23E-07
1151	0.10	1.31E-03
1152	0.20	1.83E-06
1154	-0.20	3.93E-05
1157	-0.10	3.83E-03
1158	0.10	6.06E-03
1161	0.10	3.32E-07
1162	0.10	6.56E-04
1163	0.20	7.53E-06
1164	0.10	1.42E-04
1165	0.10	4.46E-03
1170	-0.10	1.05E-09
1171	0.10	4.65E-07
1172	-0.10	6.94E-03
1174	-0.10	5.22E-03
1176	0.10	1.47E-03
1183	0.10	4.22E-03
1185	0.10	8.30E-06
1186	0.10	1.77E-03
1187	0.10	9.13E-10

3468	0.10	1.16E-08
3479	-0.10	1.76E-03
3482	-0.10	8.58E-06
3485	-0.30	1.10E-25
3489	0.10	1.55E-06
3490	0.20	6.17E-09
3491	0.30	2.61E-29
3497	-0.10	9.36E-03
3503	-0.20	3.02E-06
3506	-0.20	2.38E-05
3510	-0.20	8.93E-13
3511	0.10	5.84E-06
3514	-0.20	1.11E-08
3523	0.10	1.12E-06
3530	-0.10	4.52E-03
3539	0.20	5.96E-09
3548	-0.40	3.32E-08
3550	0.10	4.39E-07
3554	0.10	6.99E-10
3557	-0.30	2.46E-06
3558	-0.30	3.56E-39
3559	-0.40	4.06E-08
3568	0.20	5.19E-13
3569	0.20	1.03E-09
3574	-0.10	7.19E-03
3575	-0.30	1.13E-05
3579	0.10	1.54E-06
3580	-0.20	1.06E-05
3582	-0.10	1.97E-06
3585	-0.10	2.20E-04
3588	-0.10	1.09E-07
3591	0.10	1.04E-03
3593	-0.20	2.39E-20
3594	0.20	5.81E-10
3595	-0.20	1.21E-06
3596	-0.10	5.21E-05
3599	0.20	4.45E-11
3601	-0.20	1.03E-11
3609	-0.20	7.99E-03
3613	0.10	9.89E-09
3614	-0.10	5.45E-06
3615	0.10	9.53E-05
3617	0.20	2.19E-06
3618	0.20	5.81E-17
3621	-0.10	2.26E-03
3622	-0.20	1.88E-04
3625	0.10	1.07E-13
3630	-0.10	4.65E-04
3631	-0.20	1.19E-13
3632	-0.10	2.71E-04
3636	-0.10	1.15E-05
3649	0.10	4.98E-05
3652	-0.20	2.08E-03
3655	-0.10	4.61E-05
3656	-0.10	1.22E-03
3658	0.20	1.02E-10
3661	-0.20	1.77E-08
3667	0.20	8.27E-10

5831	-0.10	4.79E-06
5835	0.20	1.19E-10
5838	-0.20	5.26E-18
5839	-0.20	2.97E-05
5840	0.10	1.11E-03
5841	0.10	1.17E-07
5846	0.10	1.17E-05
5854	0.20	1.49E-04
5856	0.20	2.91E-16
5857	0.10	2.56E-03
5860	-0.10	4.15E-03
5861	0.10	6.26E-03
5868	0.20	7.79E-24
5871	0.10	6.82E-05
5872	0.10	5.12E-06
5873	-0.10	1.26E-03
5874	0.10	2.85E-04
5875	-0.20	3.57E-11
5883	-0.10	1.28E-03
5884	-0.20	1.26E-11
5887	-0.30	3.24E-14
5892	-0.10	5.75E-03
5896	0.10	1.20E-06
5897	-0.30	7.20E-25
5898	-0.30	7.23E-08
5900	-0.20	7.18E-06
5901	-0.10	1.20E-07
5902	-0.10	1.66E-03
5904	0.10	6.67E-06
5906	0.10	1.12E-08
5910	-0.10	1.64E-03
5914	0.30	1.42E-23
5916	0.10	8.17E-05
5918	-0.20	2.80E-06
5921	-0.20	1.95E-06
5922	-0.20	3.37E-06
5923	0.10	1.83E-03
5924	-0.10	1.34E-07
5929	-0.20	5.55E-09
5930	-0.30	9.17E-26
5931	0.10	1.10E-04
5933	-0.30	5.58E-09
5937	0.20	2.71E-06
5942	0.20	4.42E-07
5946	-0.10	1.53E-04
5951	-0.10	2.89E-03
5952	-0.10	1.08E-06
5953	-0.10	3.63E-05
5955	0.20	9.41E-08
5956	-0.20	3.04E-04
5957	-0.10	9.21E-03
5966	0.20	5.98E-12
5968	-0.20	4.53E-11
5970	0.10	1.15E-07
5971	0.30	2.19E-29
5973	0.10	1.94E-08
5975	0.10	7.23E-08
5978	-0.20	6.93E-08

8102	-0.15	6.31E-09
8105	0.24	1.03E-16
8107	0.15	1.07E-04
8110	-0.16	1.59E-04
8111	-0.35	2.37E-38
8117	0.09	3.72E-04
8119	-0.20	9.28E-16
8127	0.20	7.51E-18
8132	-0.15	1.06E-06
8133	0.10	1.65E-04
8134	0.20	4.57E-11
8137	-0.07	6.46E-03
8142	-0.12	1.43E-05
8143	-0.12	1.49E-05
8146	0.14	3.69E-09
8147	0.10	1.57E-05
8149	0.17	3.74E-11
8150	0.30	1.61E-21
8159	-0.09	3.15E-04
8161	0.13	3.84E-08
8163	-0.15	3.79E-10
8166	0.14	6.94E-08
8168	-0.14	9.68E-08
8169	-0.07	2.24E-03
8174	0.18	8.35E-06
8176	-0.12	3.11E-04
8179	0.21	2.37E-03
8183	-0.11	2.15E-04
8188	0.14	5.84E-09
8189	-0.13	1.81E-06
8190	-0.22	5.64E-06
8191	-0.10	2.21E-03
8192	0.23	1.22E-17
8193	0.10	7.89E-04
8194	-0.27	1.50E-12
8196	-0.13	6.41E-06
8197	-0.17	4.32E-03
8199	0.10	3.13E-03
8203	-0.13	4.48E-03
8208	0.05	5.43E-03
8212	-0.15	9.44E-05
8213	0.07	7.77E-03
8219	0.13	5.18E-04
8220	-0.15	7.68E-05
8228	0.12	2.08E-06
8230	-0.12	2.25E-05
8233	-0.23	8.40E-20
8235	-0.15	2.04E-09
8237	0.11	6.59E-04
8238	0.11	4.20E-04
8239	0.13	4.10E-07
8240	-0.24	3.63E-17
8241	-0.10	9.71E-05
8243	-0.15	1.69E-05
8244	-0.16	6.62E-09
8246	-0.27	6.92E-06
8248	0.11	3.08E-03
8250	0.20	2.57E-05

10381	-0.07	6.15E-03
10383	-0.21	6.75E-06
10386	-0.13	2.63E-07
10387	-0.08	1.24E-03
10393	-0.11	5.67E-04
10396	-0.15	2.98E-05
10399	0.07	6.72E-03
10402	-0.15	9.49E-10
10408	-0.13	2.03E-05
10409	0.07	4.07E-03
10419	0.17	8.71E-04
10422	0.12	5.43E-04
10423	0.18	9.14E-10
10425	0.07	6.50E-03
10427	-0.23	2.01E-08
10436	-0.26	9.21E-07
10438	0.26	9.81E-31
10439	0.11	6.99E-05
10441	0.14	7.22E-08
10444	-0.36	3.62E-32
10446	-0.13	7.89E-03
10454	0.20	5.73E-18
10456	-0.18	1.06E-06
10457	0.07	3.78E-05
10461	-0.15	6.08E-05
10462	0.18	7.78E-12
10468	-0.06	9.02E-03
10474	-0.19	1.69E-09
10478	0.21	9.63E-06
10480	-0.20	4.72E-10
10481	0.13	1.97E-06
10483	0.22	1.68E-06
10487	-0.17	4.82E-07
10490	-0.18	1.06E-10
10492	0.13	1.10E-05
10493	-0.17	4.53E-03
10494	0.20	4.09E-21
10495	-0.10	3.77E-04
10498	-0.16	1.66E-04
10503	0.13	2.05E-06
10507	-0.18	4.30E-10
10509	-0.13	8.17E-06
10513	-0.08	1.47E-03
10515	-0.28	2.52E-07
10520	-0.42	3.21E-16
10524	-0.09	9.66E-04
10537	-0.14	3.91E-07
10538	0.08	9.58E-03
10539	0.13	2.47E-07
10542	0.05	8.95E-03
10543	-0.21	1.10E-07
10545	0.09	2.61E-03
10548	0.12	1.10E-06
10550	-0.09	9.39E-04
10554	-0.12	2.76E-03
10555	0.13	1.95E-03
10558	-0.07	9.17E-03
10561	-0.13	1.82E-04

13852	0.11	6.11E-06
13857	0.09	4.69E-04
13860	-0.10	3.86E-03
13865	-0.32	1.63E-05
13869	-0.19	2.10E-08
13878	-0.18	2.99E-10
13879	-0.08	4.79E-03
13885	0.15	6.92E-07
13891	-0.20	8.59E-08
13898	0.22	2.25E-14
13899	-0.14	5.19E-06
13900	-0.09	8.33E-04
13906	-0.17	1.46E-07
13916	-0.23	7.07E-07
13917	-0.19	3.24E-12
13919	-0.13	7.99E-04
13920	-0.13	3.02E-03
13923	-0.11	1.71E-03
13926	-0.15	6.18E-03
13927	0.19	2.78E-10
13929	-0.15	9.08E-08
13930	-0.09	4.15E-03
13934	-0.16	3.24E-10
13935	0.10	2.05E-04
13939	-0.09	1.51E-03
13949	-0.24	1.02E-09
13951	0.08	2.29E-03
13954	-0.15	1.99E-04
13958	0.10	1.34E-03
13967	-0.21	6.73E-03
13971	0.15	2.30E-06
13981	-0.10	2.13E-03
13984	-0.21	1.12E-16
13994	0.08	1.88E-03
13997	0.12	6.59E-04
13998	0.32	5.15E-25
14007	-0.06	2.38E-03
14009	-0.12	1.59E-05
14010	-0.13	2.07E-07
14019	0.06	5.61E-03
14038	-0.09	3.96E-04
14049	0.12	3.96E-06
14050	0.15	3.29E-08
14052	-0.16	2.27E-08
14057	-0.09	4.21E-04
14071	-0.14	4.35E-08
14079	0.30	1.42E-34
14081	-0.24	9.02E-10
14083	-0.20	1.48E-05
14086	-0.12	3.12E-06
14088	0.14	4.49E-08
14090	-0.12	7.54E-03
14093	0.10	5.77E-04
14100	0.10	9.84E-03
14106	0.13	8.20E-09
14111	-0.09	1.95E-03
14113	0.20	3.61E-13
14131	-0.09	1.80E-04

1188	0.10	1.54E-09
1191	-0.10	4.25E-03
1193	0.10	1.10E-03
1194	0.10	9.64E-07
1195	0.20	3.52E-11
1213	0.20	6.34E-09
1217	0.30	8.83E-10
1224	-0.10	5.97E-03
1229	-0.10	6.12E-06
1230	0.20	1.39E-05
1237	-0.10	2.37E-04
1238	0.10	2.07E-06
1239	-0.20	8.57E-14
1241	0.20	5.69E-06
1242	0.10	9.27E-03
1244	0.20	6.70E-23
1251	0.10	3.19E-04
1252	-0.20	4.40E-07
1254	-0.20	2.73E-09
1255	0.10	6.45E-04
1256	0.10	4.05E-08
1264	0.10	5.88E-05
1265	0.20	7.13E-09
1266	-0.10	2.66E-04
1267	0.10	2.34E-03
1268	-0.20	1.23E-04
1276	-0.20	1.14E-06
1278	-0.10	5.47E-06
1281	0.20	1.48E-08
1283	0.20	1.00E-05
1287	-0.20	3.32E-15
1291	0.20	4.69E-15
1294	0.10	2.65E-04
1299	-0.20	4.12E-07
1303	0.10	3.79E-04
1305	0.20	2.71E-15
1309	0.20	4.39E-06
1319	0.20	2.09E-07
1320	-0.10	4.93E-05
1327	-0.10	2.91E-04
1329	-0.10	1.13E-05
1332	0.20	1.03E-07
1333	0.10	1.00E-03
1339	-0.20	9.01E-12
1346	-0.10	6.10E-05
1347	0.10	8.72E-03
1348	-0.20	7.36E-06
1349	-0.10	8.92E-04
1351	-0.10	2.96E-03
1354	-0.20	2.26E-06
1355	0.10	1.01E-06
1357	0.10	1.14E-03
1360	0.10	8.26E-06
1364	0.20	2.34E-21
1366	0.10	1.79E-06
1370	-0.40	7.38E-15
1373	0.20	1.12E-07
1375	-0.10	3.31E-06

3668	0.20	2.54E-11
3671	-0.10	6.27E-04
3673	0.30	4.63E-09
3683	-0.20	1.51E-15
3687	-0.20	3.16E-03
3690	0.10	1.05E-06
3695	-0.10	3.62E-04
3696	-0.10	3.82E-04
3697	-0.10	2.16E-03
3700	0.10	2.69E-07
3703	0.10	2.80E-04
3704	0.10	6.51E-04
3706	-0.20	1.41E-17
3708	0.10	2.38E-06
3711	0.10	5.66E-03
3713	0.10	2.43E-05
3714	-0.10	2.47E-06
3722	0.10	3.25E-06
3723	-0.20	9.07E-03
3726	0.10	5.62E-04
3727	-0.10	5.90E-03
3728	0.10	1.04E-06
3729	-0.20	9.62E-14
3730	0.10	1.15E-04
3731	0.10	1.89E-04
3734	0.10	8.64E-07
3735	-0.20	4.31E-08
3737	-0.20	7.98E-03
3740	-0.20	5.94E-11
3742	-0.10	6.08E-04
3745	0.10	1.71E-06
3749	-0.20	7.90E-11
3750	-0.10	2.65E-03
3751	-0.20	2.00E-03
3752	-0.20	5.93E-11
3753	-0.20	5.19E-16
3754	-0.10	1.61E-03
3755	0.20	1.08E-03
3759	-0.20	2.45E-10
3760	0.20	1.04E-18
3762	-0.20	3.23E-05
3763	0.20	1.05E-08
3764	-0.10	6.91E-03
3765	-0.10	6.74E-06
3768	-0.30	1.97E-09
3770	0.20	2.84E-11
3772	-0.30	3.08E-11
3776	-0.30	1.10E-22
3777	-0.20	1.63E-03
3779	0.10	1.05E-07
3780	0.20	4.38E-13
3785	-0.10	3.39E-04
3786	-0.10	2.50E-04
3788	-0.20	1.66E-15
3789	-0.10	4.75E-04
3792	-0.10	6.58E-05
3793	-0.20	2.73E-10
3796	-0.30	3.80E-14

5979	0.20	4.48E-08
5986	0.10	3.02E-05
5989	0.10	1.04E-05
5990	-0.20	4.63E-13
5992	-0.10	1.07E-09
5993	-0.10	3.07E-04
5994	0.10	1.37E-03
5995	0.10	9.73E-04
5996	0.10	2.60E-03
5997	0.10	2.46E-03
5998	-0.20	3.07E-09
6005	-0.10	2.05E-04
6006	-0.20	6.24E-07
6008	-0.10	1.72E-03
6013	-0.30	1.06E-05
6015	-0.10	2.09E-04
6016	-0.20	6.54E-14
6024	0.10	9.02E-03
6025	-0.20	3.33E-04
6030	-0.10	4.99E-03
6031	0.10	1.73E-04
6033	-0.20	3.22E-09
6035	0.20	3.49E-07
6036	-0.20	1.49E-13
6040	0.10	1.27E-03
6052	-0.10	1.92E-05
6066	0.20	1.52E-09
6068	0.20	3.11E-11
6069	-0.10	8.74E-03
6071	0.10	5.29E-03
6074	-0.10	1.06E-03
6075	-0.10	1.66E-04
6083	-0.10	4.62E-03
6086	-0.20	5.10E-09
6087	-0.10	2.45E-03
6088	-0.10	1.74E-03
6089	-0.10	2.21E-05
6091	0.10	7.07E-04
6095	0.20	1.14E-03
6096	0.20	1.99E-03
6098	0.10	7.66E-03
6102	-0.20	5.65E-10
6103	-0.20	2.08E-13
6104	-0.10	6.85E-06
6105	0.10	1.79E-06
6110	-0.10	1.05E-03
6111	-0.10	6.24E-04
6112	-0.20	3.46E-14
6117	-0.20	2.89E-17
6118	0.20	3.22E-11
6127	-0.20	4.33E-05
6131	0.10	3.08E-06
6134	-0.20	3.67E-14
6135	-0.30	2.22E-07
6136	-0.10	4.34E-07
6137	-0.10	4.71E-07
6141	0.20	7.86E-21
6142	-0.10	7.01E-05

8255	-0.13	1.21E-06
8256	-0.13	2.91E-03
8259	0.09	1.31E-06
8260	0.09	4.43E-04
8261	0.18	4.41E-11
8264	-0.14	5.87E-05
8267	-0.16	3.93E-03
8271	0.10	1.57E-04
8274	0.09	1.67E-04
8276	-0.21	9.66E-17
8277	-0.18	6.40E-04
8279	-0.16	5.06E-03
8285	0.09	9.38E-04
8286	0.22	2.69E-05
8287	-0.17	6.57E-12
8289	-0.23	1.02E-16
8290	-0.16	2.79E-04
8300	-0.17	4.56E-08
8312	0.15	2.38E-09
8318	-0.13	1.47E-07
8319	0.09	2.94E-04
8321	-0.27	1.24E-11
8323	-0.10	6.21E-03
8325	-0.13	2.34E-03
8332	-0.17	4.19E-07
8333	0.13	4.60E-08
8334	-0.11	5.66E-04
8336	-0.19	5.53E-09
8338	-0.11	2.66E-05
8340	-0.26	2.75E-10
8343	0.16	3.63E-08
8346	-0.25	6.89E-04
8347	-0.08	6.93E-03
8348	0.14	2.49E-06
8349	-0.09	2.47E-03
8351	0.14	1.23E-08
8352	-0.11	1.28E-05
8353	-0.26	7.25E-26
8358	-0.17	3.14E-08
8359	0.07	4.91E-03
8360	0.12	8.96E-05
8361	0.15	1.50E-09
8363	-0.09	8.45E-03
8365	-0.12	1.04E-04
8366	-0.12	9.81E-05
8367	-0.13	7.19E-11
8368	-0.07	7.21E-03
8377	0.11	4.37E-05
8383	0.18	5.34E-10
8384	-0.32	1.71E-07
8386	0.06	7.57E-03
8387	0.13	2.90E-05
8391	-0.22	1.35E-18
8392	0.10	5.57E-04
8395	-0.17	1.19E-12
8397	0.20	6.67E-15
8398	0.16	2.16E-10
8402	-0.20	7.50E-08

10563	-0.21	1.12E-06
10569	0.15	4.00E-09
10570	-0.18	6.35E-10
10572	-0.11	1.81E-04
10576	-0.13	7.18E-07
10577	-0.13	1.28E-03
10578	-0.11	9.91E-05
10579	-0.14	3.58E-03
10582	0.05	5.39E-03
10584	-0.23	1.79E-17
10586	-0.22	5.14E-06
10588	0.07	9.04E-03
10590	-0.16	1.36E-09
10593	0.10	3.73E-05
10596	-0.15	2.95E-03
10597	-0.15	6.23E-09
10599	-0.14	4.75E-05
10601	-0.13	4.01E-06
10604	-0.30	4.82E-19
10605	-0.09	4.51E-03
10608	-0.25	3.02E-18
10612	-0.20	2.66E-06
10616	0.10	1.16E-03
10619	0.21	1.23E-04
10622	-0.24	1.38E-05
10624	-0.09	3.74E-03
10625	0.16	6.98E-08
10627	-0.10	1.85E-04
10633	-0.22	4.14E-14
10634	0.08	8.12E-03
10636	-0.24	3.16E-05
10639	-0.06	9.30E-03
10644	0.14	2.87E-03
10648	0.18	8.39E-04
10649	0.13	4.13E-08
10655	-0.14	4.02E-08
10667	0.07	5.59E-03
10668	-0.28	1.42E-10
10674	-0.20	1.11E-13
10677	0.21	3.62E-14
10678	-0.20	4.19E-05
10686	0.10	3.97E-03
10687	0.10	2.85E-04
10688	-0.20	4.50E-15
10696	-0.12	5.76E-05
10717	-0.18	5.13E-10
10722	0.23	7.50E-11
10724	-0.21	1.23E-04
10728	0.12	5.79E-03
10733	0.08	8.19E-03
10734	0.09	1.14E-04
10738	-0.19	3.60E-07
10740	0.09	1.33E-03
10744	-0.13	2.71E-03
10748	0.15	1.04E-08
10752	-0.07	9.56E-03
10758	-0.27	3.98E-10
10763	-0.39	4.16E-12

14135	0.13	6.53E-03
14153	-0.17	1.45E-06
14164	-0.11	2.50E-04
14170	0.16	6.54E-11
14182	0.16	2.07E-08
14187	-0.21	4.88E-04
14189	0.15	2.44E-05
14191	-0.19	4.38E-09
14194	-0.29	3.29E-10
14195	-0.22	7.55E-11
14197	-0.25	3.56E-08
14206	0.16	1.14E-05
14213	0.16	3.03E-08
14222	-0.25	3.18E-08
14227	-0.13	1.02E-06
14237	-0.26	4.28E-12
14244	-0.25	1.12E-24
14246	-0.16	3.56E-10
14259	-0.14	4.06E-03
14265	-0.08	7.58E-03
14269	0.10	3.20E-03
14273	-0.19	2.66E-10
14281	0.12	6.19E-04
14284	-0.21	4.52E-06
14296	-0.22	1.91E-16
14300	-0.08	2.69E-03
14301	0.19	3.04E-17
14304	-0.08	1.51E-03
14306	0.14	1.36E-07
14307	0.21	1.60E-17
14309	0.14	3.12E-08
14310	-0.09	2.03E-03
14311	-0.09	2.83E-04
14313	0.13	1.92E-07
14315	-0.05	4.72E-03
14316	-0.09	3.70E-04
14329	-0.10	6.16E-04
14330	-0.17	1.37E-11
14333	0.13	7.65E-07
14334	-0.08	2.12E-03
14342	0.11	1.82E-03
14355	-0.09	7.36E-03
14364	-0.07	2.07E-03
14369	0.11	1.06E-03
14377	0.13	1.93E-07
14379	-0.31	3.66E-08
14380	0.13	2.82E-06
14381	-0.29	5.23E-15
14389	-0.13	2.02E-07
14390	0.22	2.02E-12
14391	0.17	8.21E-11
14397	0.08	9.25E-03
14402	0.18	8.65E-04
14406	-0.21	3.17E-07
14411	-0.10	5.43E-05
14414	0.11	9.48E-10
14424	-0.18	2.40E-05
14426	-0.11	1.71E-04

1378	-0.10	9.73E-04
1380	-0.40	2.73E-20
1384	-0.10	5.26E-03
1385	-0.30	4.83E-26
1389	0.20	1.49E-08
1390	-0.30	4.58E-08
1392	-0.10	7.02E-04
1393	-0.20	6.97E-13
1395	0.10	4.41E-03
1396	-0.20	2.54E-12
1397	0.10	1.20E-03
1399	-0.10	4.55E-03
1400	-0.20	3.33E-05
1401	-0.20	2.49E-12
1404	0.10	9.29E-03
1406	-0.20	3.46E-20
1409	0.10	1.55E-08
1410	-0.20	9.64E-13
1411	0.20	1.18E-13
1421	0.10	3.37E-08
1429	-0.10	3.41E-07
1430	-0.10	2.51E-04
1431	0.20	1.21E-09
1434	0.20	9.96E-12
1436	-0.20	7.22E-10
1439	0.20	1.14E-12
1443	0.10	2.47E-04
1444	0.10	1.59E-04
1448	-0.10	5.49E-07
1450	-0.10	4.30E-04
1451	0.20	9.26E-08
1455	0.20	1.06E-04
1456	-0.20	1.77E-08
1460	-0.10	5.88E-04
1464	0.30	2.20E-27
1465	-0.10	8.43E-03
1466	-0.10	3.75E-04
1467	0.10	2.42E-08
1468	0.10	3.36E-03
1472	-0.10	1.06E-06
1475	-0.10	4.44E-08
1478	0.20	3.04E-13
1480	0.20	3.91E-03
1489	0.10	6.00E-03
1491	0.30	6.60E-22
1498	-0.30	5.45E-40
1505	0.20	1.49E-06
1506	-0.10	3.60E-03
1507	0.30	1.28E-10
1512	-0.20	8.45E-03
1516	0.20	1.95E-05
1518	-0.10	3.07E-03
1524	0.10	1.11E-03
1526	-0.10	6.32E-07
1527	-0.10	3.30E-04
1529	-0.10	4.55E-03
1530	-0.20	1.51E-14
1532	-0.10	1.21E-04

3797	-0.30	8.11E-14
3800	0.20	8.36E-04
3801	0.10	2.93E-04
3802	-0.20	4.43E-03
3804	0.20	3.26E-12
3805	0.10	2.92E-05
3808	-0.10	1.59E-05
3810	-0.20	3.32E-10
3812	-0.20	2.64E-16
3818	-0.20	2.03E-05
3821	0.10	6.25E-03
3822	-0.10	3.35E-03
3823	-0.10	1.89E-04
3825	0.20	6.14E-07
3834	-0.10	9.79E-05
3841	-0.20	2.97E-04
3842	-0.10	1.16E-03
3844	0.10	6.49E-03
3847	-0.10	6.57E-03
3851	-0.10	1.47E-03
3859	-0.20	1.36E-16
3862	0.10	1.66E-08
3864	-0.10	1.57E-03
3865	-0.10	1.21E-04
3866	0.10	1.96E-07
3877	0.10	4.93E-05
3878	-0.20	8.36E-13
3879	-0.20	2.53E-10
3884	-0.20	2.24E-17
3885	0.20	7.90E-18
3886	0.20	1.13E-12
3889	-0.30	2.74E-06
3900	-0.20	1.25E-10
3902	-0.30	4.13E-13
3904	-0.10	1.94E-04
3909	-0.10	7.36E-05
3910	0.10	1.14E-03
3912	-0.10	4.70E-03
3914	-0.30	8.43E-25
3917	0.10	4.92E-06
3918	-0.20	8.07E-09
3922	-0.20	1.94E-11
3925	0.20	5.43E-04
3926	0.20	5.76E-12
3927	-0.20	1.03E-15
3929	0.10	4.74E-04
3931	0.10	1.86E-04
3937	-0.10	2.34E-04
3938	0.10	3.09E-07
3940	0.10	2.04E-08
3944	0.10	2.31E-03
3945	-0.30	2.34E-07
3946	0.30	2.05E-35
3947	-0.10	3.81E-05
3950	0.10	1.70E-04
3956	-0.10	2.56E-04
3957	-0.10	2.34E-04
3959	0.10	2.50E-03

6143	-0.20	6.60E-10
6145	-0.10	3.54E-04
6147	-0.10	4.11E-03
6148	-0.30	1.17E-04
6150	-0.10	1.31E-03
6152	0.10	3.21E-07
6158	-0.10	2.83E-04
6161	-0.10	3.50E-04
6167	-0.10	2.59E-03
6168	-0.10	4.67E-04
6169	-0.10	2.70E-03
6172	0.10	1.18E-05
6177	0.10	7.00E-06
6180	-0.10	7.99E-04
6181	0.10	1.21E-04
6183	0.20	4.03E-03
6186	0.10	3.62E-06
6187	0.10	3.06E-04
6188	0.10	5.76E-04
6194	0.20	1.69E-05
6195	-0.10	5.85E-04
6197	0.20	9.83E-08
6198	0.20	8.51E-08
6200	0.20	6.29E-07
6201	-0.10	1.12E-06
6204	-0.30	1.42E-13
6206	0.20	6.37E-05
6212	0.10	7.34E-04
6214	0.10	3.08E-06
6219	0.10	2.03E-08
6221	0.10	9.19E-07
6229	-0.10	6.12E-07
6230	0.10	5.04E-04
6238	0.10	3.76E-04
6239	-0.20	1.90E-10
6240	-0.10	3.18E-03
6241	0.10	6.17E-05
6245	0.20	2.49E-20
6246	-0.20	1.07E-06
6248	-0.20	4.94E-05
6249	0.30	1.29E-30
6250	-0.20	8.64E-17
6253	-0.30	6.12E-26
6257	-0.20	6.12E-04
6258	-0.20	8.87E-10
6261	0.20	7.48E-28
6263	-0.10	1.83E-05
6264	-0.20	1.82E-05
6266	-0.20	4.34E-05
6267	-0.30	3.25E-16
6272	-0.10	3.43E-04
6275	-0.10	7.71E-03
6284	0.20	1.64E-07
6285	0.10	1.11E-04
6286	-0.20	4.13E-04
6293	0.10	6.34E-03
6294	-0.10	1.39E-07
6297	0.10	1.84E-03

8403	0.08	7.94E-03
8405	0.09	4.06E-04
8411	-0.14	1.99E-07
8412	-0.14	2.80E-07
8413	0.12	2.21E-06
8415	0.09	1.81E-04
8417	0.07	9.85E-03
8418	0.14	1.22E-04
8420	0.13	3.73E-07
8421	-0.36	1.61E-38
8423	-0.18	8.12E-10
8425	-0.14	1.89E-07
8427	0.12	3.44E-04
8433	-0.20	3.11E-11
8434	-0.38	5.90E-08
8436	-0.14	4.66E-05
8439	-0.08	2.80E-03
8446	-0.20	1.76E-14
8451	-0.20	2.05E-11
8454	-0.30	2.74E-25
8455	0.12	6.84E-06
8457	0.12	4.74E-03
8460	-0.12	8.86E-05
8464	0.14	6.28E-08
8466	0.21	2.53E-16
8467	0.22	9.97E-21
8476	-0.10	4.52E-05
8477	-0.10	5.17E-05
8478	-0.10	4.75E-05
8480	0.08	6.21E-03
8481	-0.19	2.00E-03
8484	-0.21	2.35E-08
8485	0.17	8.64E-09
8487	-0.11	2.17E-03
8488	0.11	4.96E-08
8489	-0.23	1.76E-11
8490	-0.17	3.19E-03
8501	0.15	9.22E-06
8503	-0.13	1.31E-03
8508	-0.14	5.62E-08
8515	0.11	1.06E-05
8517	0.10	2.85E-03
8520	-0.17	2.03E-03
8521	0.11	3.25E-05
8529	-0.20	1.19E-05
8532	-0.14	5.20E-06
8540	0.14	1.17E-07
8541	0.17	1.39E-05
8547	-0.26	2.62E-06
8548	-0.32	2.85E-07
8550	-0.16	4.06E-10
8557	-0.25	1.03E-05
8559	0.23	1.78E-20
8560	0.15	7.28E-09
8561	0.15	1.68E-05
8563	0.19	2.97E-08
8576	-0.26	4.57E-18
8577	0.13	1.85E-07

10769	-0.11	7.83E-05
10775	-0.13	2.57E-07
10777	0.16	1.42E-03
10778	0.19	1.50E-15
10791	-0.13	5.18E-07
10792	-0.10	8.42E-04
10798	0.09	1.70E-04
10801	-0.09	4.44E-04
10802	0.13	4.48E-05
10807	-0.09	1.69E-03
10811	-0.20	3.86E-04
10813	0.16	9.69E-08
10818	-0.11	2.73E-05
10828	-0.07	9.20E-03
10837	0.19	1.09E-15
10838	0.22	6.22E-19
10854	-0.13	5.00E-03
10865	0.15	3.00E-08
10872	-0.24	4.50E-14
10877	0.16	9.62E-05
10888	-0.24	1.14E-13
10889	-0.09	3.25E-04
10891	-0.11	7.45E-04
10897	0.23	5.73E-04
10902	0.11	3.69E-05
10906	-0.10	5.55E-04
10911	-0.07	8.67E-03
10913	-0.13	2.40E-07
10917	-0.12	5.87E-04
10923	-0.24	1.02E-10
10924	0.15	8.57E-09
10926	-0.29	6.85E-09
10934	-0.16	7.43E-06
10940	-0.09	1.33E-04
10942	0.11	2.09E-04
10943	-0.18	2.81E-05
10948	-0.14	2.10E-07
10950	0.08	1.18E-03
10952	0.18	1.54E-10
10965	0.16	3.51E-10
10973	-0.15	5.22E-03
10974	-0.08	6.24E-03
10977	-0.13	6.77E-06
10980	0.19	3.03E-16
10985	-0.21	9.86E-17
10987	-0.24	3.92E-10
10991	0.09	7.35E-04
10992	-0.14	2.20E-06
10994	0.09	6.34E-04
10995	-0.18	8.43E-08
11003	-0.17	2.94E-03
11012	-0.10	3.86E-04
11013	-0.15	3.11E-07
11015	0.15	4.75E-03
11016	-0.07	9.97E-03
11019	0.10	5.12E-04
11027	-0.11	9.70E-03
11029	0.24	1.34E-15

14429	0.08	8.15E-04
14430	0.13	8.20E-08
14441	0.13	1.87E-07
14448	-0.18	3.89E-08
14451	0.17	1.81E-07
14454	0.15	2.96E-05
14460	0.08	1.17E-03
14463	0.09	8.04E-04
14469	-0.09	1.22E-03
14474	-0.15	3.18E-06
14476	0.21	1.16E-09
14478	-0.13	5.20E-06
14479	-0.18	5.38E-10
14484	0.21	8.60E-19
14498	-0.20	1.32E-08
14502	-0.22	1.84E-04
14504	-0.24	2.00E-06
14506	0.09	8.21E-04
14507	0.17	1.81E-11
14509	0.10	4.67E-04
14514	-0.08	2.86E-03
14519	-0.21	8.39E-03
14523	0.22	3.73E-19
14524	-0.28	2.37E-14
14525	-0.28	5.40E-06
14533	-0.10	4.05E-04
14535	-0.09	4.03E-04
14539	-0.14	7.07E-04
14544	0.12	4.94E-04
14551	-0.17	5.27E-03
14555	0.12	1.32E-06
14560	-0.17	1.80E-06
14582	0.18	8.86E-14
14586	-0.10	2.97E-03
14592	-0.10	4.94E-03
14602	-0.09	8.06E-06
14603	0.07	2.39E-03
14612	-0.21	1.01E-16
14615	-0.07	7.86E-03
14616	-0.22	4.58E-08
14623	0.11	1.11E-04
14625	-0.15	1.20E-07
14626	-0.15	4.23E-09
14628	-0.16	8.21E-13
14629	0.12	7.37E-04
14631	-0.13	5.19E-07
14649	0.11	7.33E-06
14651	0.14	6.00E-08
14654	0.09	9.41E-04
14658	0.08	1.34E-04
14661	-0.14	5.79E-07
14668	-0.26	2.34E-11
14674	0.09	1.75E-03
14677	0.09	2.83E-03
14688	0.10	1.25E-03
14695	-0.25	1.15E-20
14697	-0.14	1.78E-06
14698	-0.14	2.31E-06

1533	0.20	7.52E-25	3961	0.10	4.90E-04	6303	0.20	8.27E-11	8578	0.21	1.67E-05	11036	-0.13	5.06E-05	14699	0.13	5.68E-08
1541	0.10	9.29E-04	3964	-0.10	1.31E-03	6304	0.20	2.82E-11	8580	-0.19	5.07E-08	11038	-0.08	8.71E-04	14700	-0.26	1.47E-26
1544	0.10	7.78E-03	3969	-0.10	8.66E-05	6305	0.20	6.01E-12	8585	0.14	1.50E-04	11047	-0.07	4.16E-03	14704	0.14	6.70E-04
1545	0.20	1.35E-09	3971	0.20	7.21E-05	6307	-0.20	1.00E-06	8589	-0.23	1.20E-12	11048	-0.24	9.34E-08	14705	-0.17	8.06E-07
1548	-0.10	1.48E-03	3972	0.20	6.01E-14	6308	0.10	8.49E-03	8591	-0.11	1.41E-04	11058	0.10	3.65E-03	14722	0.08	1.69E-03
1550	-0.10	3.58E-03	3976	-0.10	9.25E-03	6310	0.20	9.23E-18	8592	-0.15	4.12E-05	11060	0.08	8.67E-03	14724	-0.10	2.84E-04
1552	0.10	3.13E-04	3978	-0.20	6.90E-14	6318	-0.20	2.07E-12	8593	-0.21	4.04E-14	11086	-0.18	1.62E-07	14725	-0.09	6.52E-04
1554	0.10	4.38E-03	3983	0.10	4.44E-08	6319	0.20	1.53E-03	8596	-0.22	9.12E-10	11088	0.27	6.28E-26	14727	0.08	2.81E-03
1558	0.10	1.95E-03	3985	-0.20	1.22E-03	6321	0.10	3.79E-06	8598	-0.11	3.21E-04	11090	0.19	7.11E-09	14734	-0.20	1.09E-10
1560	0.20	2.35E-13	3993	-0.10	3.21E-05	6325	0.10	1.16E-03	8601	-0.09	1.70E-03	11094	0.16	1.92E-06	14738	-0.25	1.75E-06
1566	0.10	1.04E-03	3994	0.10	2.46E-07	6328	-0.10	8.39E-06	8603	0.14	2.86E-03	11096	0.28	8.39E-11	14739	0.19	5.48E-15
1571	-0.10	2.88E-05	3998	-0.20	3.43E-03	6329	-0.10	4.75E-04	8607	-0.09	4.16E-04	11097	-0.10	1.19E-04	14762	-0.11	5.44E-03
1573	0.10	1.90E-08	4001	0.10	1.24E-03	6330	-0.20	1.86E-08	8608	-0.15	8.40E-04	11102	0.20	1.03E-16	14767	0.13	3.45E-04
1575	-0.10	8.67E-08	4002	-0.10	1.75E-05	6333	0.10	1.05E-04	8609	-0.09	2.88E-03	11103	0.13	2.31E-07	14773	-0.22	4.99E-14
1577	0.10	2.58E-04	4011	0.10	6.30E-07	6337	-0.20	1.10E-21	8611	-0.15	8.67E-10	11107	-0.08	2.81E-03	14777	-0.15	1.44E-07
1579	0.10	1.13E-03	4012	0.10	7.69E-03	6340	-0.20	8.76E-10	8613	-0.14	4.73E-06	11108	-0.10	1.94E-04	14778	0.10	7.42E-05
1580	0.10	1.80E-05	4014	-0.10	1.02E-04	6341	-0.10	3.10E-03	8614	-0.12	2.38E-04	11110	-0.19	1.22E-06	14780	-0.09	5.21E-03
1581	0.20	1.19E-12	4015	0.20	1.91E-08	6343	0.10	8.55E-04	8616	-0.11	1.01E-04	11115	-0.10	7.68E-03	14781	-0.31	4.16E-08
1583	-0.20	5.20E-04	4017	-0.10	9.70E-06	6345	0.10	2.87E-04	8617	0.18	1.04E-07	11116	-0.12	2.12E-03	14783	0.22	5.26E-18
1585	-0.10	1.24E-03	4021	0.10	7.87E-03	6346	-0.20	8.90E-07	8627	-0.12	1.52E-04	11117	0.14	1.13E-03	14790	-0.23	8.12E-06
1587	-0.30	1.25E-05	4022	-0.20	7.31E-06	6349	-0.10	2.34E-03	8630	0.12	9.38E-04	11127	-0.21	2.05E-13	14791	0.16	5.72E-08
1588	-0.20	2.77E-10	4023	-0.20	6.66E-04	6351	-0.20	4.19E-10	8636	0.10	1.56E-03	11130	-0.11	1.34E-03	14801	-0.11	1.76E-05
1591	-0.20	2.09E-05	4025	0.20	3.07E-20	6352	-0.30	1.74E-11	8637	0.15	9.82E-03	11132	0.08	9.97E-03	14806	-0.32	7.90E-10
1596	-0.10	4.79E-03	4027	0.10	4.30E-07	6356	0.10	1.83E-08	8642	-0.20	3.80E-05	11139	-0.14	4.53E-08	14817	-0.29	3.39E-14
1597	-0.10	1.33E-05	4028	-0.20	1.57E-07	6359	-0.20	4.51E-08	8644	-0.10	1.82E-04	11142	0.12	2.23E-05	14828	0.08	1.30E-03
1599	0.30	8.45E-30	4030	-0.10	9.17E-03	6360	-0.30	2.27E-06	8645	0.13	4.12E-07	11143	-0.09	1.31E-03	14839	-0.17	1.64E-10
1601	-0.10	6.37E-06	4031	-0.30	1.51E-06	6361	0.10	6.97E-05	8647	-0.20	2.65E-11	11149	0.17	4.84E-11	14841	-0.10	5.87E-04
1604	-0.10	2.82E-03	4032	0.20	1.42E-18	6362	0.10	4.30E-03	8648	-0.11	1.22E-03	11151	0.20	2.45E-07	14844	0.19	2.90E-04
1612	0.10	1.51E-06	4039	0.10	3.37E-04	6365	-0.20	3.44E-17	8650	-0.23	8.00E-10	11153	-0.21	2.65E-16	14860	0.08	2.31E-03
1614	0.20	9.51E-16	4040	-0.10	8.07E-05	6366	-0.20	5.38E-08	8651	-0.10	3.59E-03	11157	-0.10	6.80E-04	14861	0.17	9.47E-06
1615	-0.30	4.53E-09	4041	-0.20	6.66E-07	6369	0.10	7.94E-03	8652	0.20	9.98E-03	11159	0.15	1.50E-10	14872	-0.28	5.75E-05
1616	0.20	2.47E-15	4043	0.10	5.53E-03	6373	0.20	1.23E-16	8654	0.15	2.21E-06	11166	-0.12	8.84E-07	14873	-0.09	1.47E-03
1617	-0.10	8.28E-05	4044	-0.30	8.45E-15	6375	0.10	2.08E-06	8658	-0.10	4.52E-03	11172	-0.22	7.61E-18	14886	0.16	6.17E-12
1618	0.10	1.14E-04	4045	0.20	1.55E-10	6376	0.20	2.00E-12	8659	-0.12	1.17E-03	11173	0.21	3.69E-18	14893	-0.10	3.71E-03
1620	-0.30	5.22E-23	4049	0.10	4.33E-04	6377	0.10	6.78E-04	8662	-0.29	2.35E-04	11174	0.17	3.84E-09	14899	0.18	3.26E-08
1622	0.10	1.49E-07	4050	0.10	7.92E-06	6381	0.20	1.26E-20	8663	0.08	2.41E-03	11177	0.17	1.09E-04	14904	0.19	3.75E-14
1623	-0.10	1.65E-04	4051	-0.20	2.53E-22	6382	-0.10	1.07E-04	8664	0.10	1.60E-03	11181	-0.37	1.28E-13	14915	0.19	5.82E-14
1625	0.10	1.22E-04	4052	-0.20	3.96E-23	6385	-0.10	1.36E-06	8666	-0.27	3.35E-04	11184	0.17	3.29E-12	14925	0.13	8.64E-08
1629	-0.10	9.35E-03	4056	0.10	5.26E-03	6388	-0.10	4.72E-06	8667	-0.21	1.28E-03	11188	0.14	1.96E-07	14937	0.19	2.23E-16
1630	-0.10	4.67E-05	4058	0.10	3.88E-04	6394	0.10	6.67E-05	8668	-0.18	1.04E-09	11191	-0.08	1.56E-03	14938	0.23	5.36E-05
1634	0.10	1.49E-05	4059	0.10	1.76E-03	6398	-0.30	1.94E-16	8670	-0.07	6.93E-03	11196	0.22	1.17E-19	14940	0.11	4.19E-04
1635	-0.10	7.62E-03	4060	0.10	1.07E-09	6402	-0.20	1.71E-07	8674	-0.05	4.55E-03	11201	-0.13	3.47E-04	14944	-0.23	5.23E-04
1636	-0.20	2.05E-05	4061	0.10	1.45E-09	6404	0.10	9.11E-04	8676	-0.27	1.18E-22	11202	-0.10	1.90E-04	14953	-0.10	1.01E-04
1637	0.20	3.63E-09	4070	-0.20	8.41E-11	6405	0.10	8.45E-03	8679	0.10	2.71E-05	11204	-0.13	1.15E-03	14966	-0.24	1.84E-21
1640	-0.20	2.90E-12	4075	-0.30	8.86E-26	6406	0.10	5.27E-04	8683	-0.18	8.98E-07	11206	-0.11	1.11E-04	14971	-0.14	8.04E-04
1642	0.10	1.52E-07	4076	-0.30	2.97E-11	6408	0.10	2.37E-09	8686	0.07	2.77E-03	11208	-0.09	7.32E-03	14972	0.13	5.16E-08
1643	0.10	2.21E-04	4079	0.10	5.89E-04	6411	-0.10	2.91E-05	8688	-0.15	3.51E-08	11210	0.17	3.84E-04	14973	0.18	2.25E-11
1644	-0.30	6.10E-14	4081	0.10	4.47E-06	6412	0.20	3.90E-09	8689	0.14	1.56E-07	11212	-0.07	8.25E-03	14974	-0.22	4.50E-12
1652	0.10	7.64E-07	4084	0.20	6.67E-11	6415	-0.20	5.90E-10	8690	-0.13	6.13E-04	11216	-0.13	3.34E-03	14983	-0.16	1.56E-03
1653	0.30	3.88E-32	4088	-0.10	1.56E-07	6416	0.10	9.95E-09	8692	-0.16	5.65E-04	11219	-0.08	7.13E-03	14989	-0.22	1.14E-05
1659	0.20	4.00E-03	4091	-0.30	2.09E-04	6417	0.20	2.07E-16	8693	-0.36	2.15E-27	11224	0.10	5.71E-04	14999	-0.35	1.33E-05
1662	-0.20	8.96E-04	4096	0.20	4.15E-13	6420	-0.20	1.89E-12	8694	0.12	1.45E-06	11231	-0.10	3.69E-03	15001	-0.12	5.22E-04
1663	-0.20	1.48E-04	4097	-0.10	2.98E-06	6423	0.10	3.06E-03	8699	0.17	3.79E-11	11233	-0.12	4.08E-05	15003	-0.14	9.65E-07
1664	-0.10	1.04E-04	4098	-0.10	1.54E-07	6431	-0.40	2.46E-08	8700	0.30	8.13E-22	11236	-0.14	5.93E-04	15008	-0.21	4.47E-10
1665	-0.10	4.89E-03	4106	-0.20	2.07E-12	6434	0.10	1.41E-03	8704	-0.19	4.58E-07	11239	-0.10	2.23E-03	15012	-0.54	3.47E-09
1668	0.10	2.54E-06	4119	0.10	7.99E-03	6436	0.20	1.64E-15	8705	-0.12	4.20E-03	11241	0.11	4.30E-04	15017	-0.15	6.83E-03
1671	-0.10	3.92E-03	4120	-0.10	1.35E-06	6437	0.10	4.34E-05	8706	-0.18	1.86E-03	11244	0.18	1.92E-13	15018	-0.10	5.99E-05
1677	0.20	1.75E-11	4121	-0.20	1.28E-14	6438	0.10	1.28E-06	8707	-0.38	4.97E-11	11249	-0.11	1.70E-05	15026	-0.09	3.57E-04

1681	0.30	7.73E-20	4122	-0.10	2.93E-03	6439	0.10	1.68E-07	8708	-0.38	8.60E-11	11251	0.14	1.32E-08	15033	-0.15	2.62E-04
1684	0.20	9.68E-08	4126	-0.10	8.31E-03	6440	0.10	3.05E-06	8710	-0.32	1.19E-15	11254	-0.12	7.79E-10	15042	-0.23	6.09E-09
1686	0.20	6.06E-11	4130	-0.20	7.97E-14	6441	0.20	5.59E-05	8712	-0.12	2.27E-04	11284	-0.18	1.17E-10	15047	-0.15	2.21E-06
1690	-0.10	1.85E-03	4131	-0.20	4.55E-04	6452	-0.10	7.03E-05	8715	-0.20	1.03E-13	11287	-0.09	8.89E-04	15048	0.09	4.59E-03
1696	-0.30	1.79E-04	4133	0.10	5.17E-03	6454	-0.10	4.51E-05	8724	0.15	1.21E-06	11288	-0.11	2.08E-03	15050	-0.13	8.14E-05
1700	0.10	5.95E-03	4134	-0.20	1.97E-13	6455	0.10	1.03E-03	8728	-0.42	4.30E-32	11290	-0.15	2.85E-08	15060	-0.26	1.67E-22
1702	0.10	9.72E-03	4137	0.10	3.67E-04	6459	0.10	5.82E-04	8729	-0.22	5.53E-06	11291	-0.09	4.39E-03	15062	-0.30	2.38E-05
1705	-0.20	1.17E-05	4150	0.10	5.01E-03	6461	-0.20	4.92E-06	8731	0.08	1.63E-03	11292	0.28	2.75E-19	15077	0.08	1.92E-03
1713	0.10	2.52E-03	4155	0.20	1.81E-10	6463	-0.10	7.30E-05	8732	0.11	1.65E-05	11294	-0.20	1.43E-09	15084	-0.22	6.43E-03
1715	-0.10	9.45E-03	4156	0.20	4.32E-15	6464	-0.10	6.57E-06	8733	-0.22	2.49E-12	11298	-0.14	9.79E-03	15086	-0.17	3.02E-10
1717	-0.20	1.20E-08	4159	0.10	6.17E-08	6468	-0.30	8.63E-14	8735	0.17	8.08E-11	11302	0.17	6.09E-08	15103	-0.10	7.14E-03
1718	0.10	3.90E-05	4162	-0.10	2.29E-04	6473	-0.10	5.02E-04	8740	0.16	1.08E-14	11303	-0.10	2.44E-05	15104	0.16	2.54E-09
1722	0.30	1.08E-28	4164	0.10	1.17E-03	6474	0.10	8.44E-04	8744	-0.27	3.27E-19	11305	0.15	4.83E-06	15110	-0.13	1.99E-06
1727	0.10	1.49E-06	4165	-0.10	9.80E-07	6476	-0.20	5.98E-04	8745	-0.15	1.03E-06	11306	-0.19	1.21E-15	15113	-0.16	3.03E-05
1728	0.10	7.18E-03	4166	-0.20	3.27E-09	6477	0.10	4.30E-04	8747	0.08	1.28E-03	11311	-0.18	2.89E-10	15115	-0.13	6.12E-06
1730	0.20	1.42E-15	4170	0.30	9.09E-21	6478	0.10	2.62E-07	8749	0.09	7.71E-04	11312	0.11	1.03E-04	15123	-0.08	8.13E-03
1731	-0.20	6.14E-11	4182	0.10	1.40E-03	6483	-0.10	3.02E-05	8754	0.17	7.33E-06	11314	-0.18	3.13E-12	15128	0.17	6.46E-11
1737	0.10	3.18E-05	4184	-0.10	3.28E-03	6485	-0.20	1.83E-08	8756	0.12	6.40E-06	11316	-0.18	1.27E-08	15131	-0.13	3.88E-07
1740	-0.10	3.00E-04	4185	0.10	6.36E-04	6487	0.10	3.36E-09	8757	-0.25	1.11E-17	11321	-0.20	3.63E-13	15133	-0.21	3.48E-03
1741	0.10	7.76E-06	4187	0.20	4.60E-08	6493	-0.30	5.04E-06	8758	0.09	3.96E-03	11323	-0.24	1.06E-09	15149	0.11	9.93E-03
1743	-0.20	4.65E-05	4194	-0.20	2.96E-09	6498	-0.10	6.30E-05	8759	-0.24	1.14E-05	11330	-0.08	3.62E-03	15150	0.14	2.78E-05
1744	0.10	2.50E-05	4197	-0.10	1.83E-08	6502	-0.20	7.52E-05	8764	-0.23	1.04E-05	11337	0.16	9.03E-11	15162	-0.13	1.08E-07
1745	0.10	2.03E-05	4202	0.10	5.58E-09	6504	-0.10	2.70E-03	8767	-0.15	1.13E-05	11340	0.20	1.48E-14	15164	0.12	8.41E-07
1751	0.20	1.80E-24	4203	0.10	3.37E-03	6505	-0.10	5.17E-08	8773	-0.27	1.50E-23	11343	0.10	5.70E-05	15168	-0.10	1.52E-04
1752	0.20	1.91E-18	4204	-0.10	7.52E-07	6509	-0.10	7.58E-03	8774	0.09	1.69E-04	11344	0.16	1.19E-09	15172	0.13	9.17E-07
1758	0.10	5.46E-03	4205	0.10	2.35E-04	6515	0.20	3.29E-06	8777	-0.07	5.54E-03	11348	-0.16	2.13E-04	15182	0.09	9.74E-04
1761	-0.10	8.77E-03	4212	-0.10	5.36E-04	6520	0.10	2.08E-07	8782	0.10	9.65E-05	11350	0.12	1.97E-05	15184	-0.26	1.28E-22
1763	0.10	4.11E-04	4214	-0.30	7.87E-12	6521	-0.10	7.61E-03	8784	-0.16	1.48E-03	11352	0.12	3.39E-05	15187	-0.31	4.69E-08
1764	-0.10	3.56E-08	4215	0.10	1.94E-04	6522	0.10	1.61E-03	8785	-0.26	2.28E-05	11355	-0.18	1.69E-06	15188	-0.13	6.62E-05
1768	-0.20	8.49E-13	4217	0.10	4.97E-04	6523	-0.20	1.87E-25	8789	-0.22	9.55E-05	11359	-0.13	6.39E-07	15204	-0.08	8.57E-03
1776	-0.20	1.72E-12	4219	0.20	5.35E-10	6528	0.10	2.08E-03	8792	-0.29	4.88E-10	11360	0.17	3.81E-09	15206	0.13	3.39E-08
1777	-0.10	8.54E-03	4230	-0.10	9.12E-03	6529	-0.10	4.20E-03	8793	0.12	6.39E-05	11362	-0.35	2.32E-09	15209	-0.15	5.75E-09
1778	-0.10	4.56E-03	4231	0.20	3.92E-15	6531	0.20	6.79E-08	8796	0.19	7.27E-04	11374	-0.11	6.70E-05	15211	-0.18	9.40E-10
1779	0.10	5.37E-03	4234	-0.30	8.01E-20	6532	-0.20	1.07E-04	8797	-0.09	1.29E-04	11382	-0.21	5.44E-14	15236	-0.11	9.15E-03
1780	0.30	1.05E-27	4236	0.20	1.48E-07	6535	-0.10	2.02E-05	8800	0.20	5.63E-09	11384	-0.18	7.87E-12	15237	-0.15	7.19E-04
1784	0.10	4.89E-03	4239	-0.20	8.95E-03	6540	-0.20	1.31E-13	8801	-0.19	6.42E-06	11386	-0.27	3.80E-10	15238	-0.14	1.11E-06
1788	-0.10	6.14E-06	4244	-0.20	1.43E-12	6544	0.10	5.69E-06	8805	-0.17	1.84E-11	11390	-0.18	3.91E-09	15239	0.24	2.33E-15
1789	0.10	8.60E-04	4245	-0.20	1.00E-08	6545	0.10	1.09E-03	8810	-0.12	3.20E-07	11396	0.15	7.98E-09	15241	0.08	4.38E-03
1790	-0.10	4.57E-13	4246	-0.20	5.23E-10	6548	-0.10	3.86E-06	8814	-0.12	2.31E-04	11408	-0.17	1.17E-08	15243	-0.22	6.59E-08
1795	-0.10	4.98E-06	4248	-0.30	1.87E-07	6549	-0.10	4.88E-05	8818	-0.18	1.31E-03	11410	-0.10	8.17E-05	15244	-0.32	1.62E-13
1798	0.10	1.28E-05	4249	0.10	2.84E-03	6550	-0.10	2.26E-09	8820	-0.12	1.01E-05	11415	-0.35	1.49E-09	15245	0.11	1.21E-05
1799	0.10	5.61E-06	4252	-0.20	5.58E-16	6551	-0.30	5.07E-09	8822	-0.12	1.70E-05	11421	-0.20	3.59E-03	15252	0.18	2.89E-11
1803	-0.20	2.32E-05	4254	-0.10	2.92E-04	6555	0.10	7.09E-06	8824	-0.30	6.57E-12	11425	-0.12	1.89E-06	15260	-0.26	5.86E-18
1804	-0.30	6.75E-06	4258	0.10	5.36E-03	6557	0.10	1.61E-03	8832	-0.16	1.48E-04	11427	-0.11	3.95E-04	15291	0.23	4.97E-14
1805	-0.20	2.25E-09	4259	0.30	2.54E-18	6561	-0.20	1.74E-04	8834	0.16	3.03E-08	11431	-0.08	1.12E-03	15293	-0.11	2.39E-04
1806	0.30	2.78E-05	4261	0.10	2.10E-09	6564	0.20	1.35E-05	8838	-0.12	2.72E-03	11435	-0.11	1.87E-03	15302	0.13	4.84E-05
1810	0.10	7.26E-03	4264	-0.10	1.19E-03	6565	0.10	2.76E-04	8839	-0.39	2.61E-16	11440	-0.15	9.65E-04	15309	0.18	9.55E-13
1813	0.10	2.04E-06	4265	0.20	3.00E-10	6566	-0.20	2.21E-06	8841	-0.17	2.51E-07	11443	-0.08	8.49E-03	15320	-0.24	3.91E-06
1815	-0.30	3.17E-11	4266	-0.20	2.38E-04	6568	-0.10	6.09E-10	8846	-0.12	2.69E-03	11444	0.16	1.36E-07	15327	-0.20	1.45E-05
1816	0.10	5.46E-03	4268	-0.10	5.42E-06	6570	-0.10	9.86E-04	8848	-0.25	3.97E-19	11446	0.15	4.56E-07	15328	-0.24	7.13E-03
1820	-0.20	1.81E-11	4270	-0.10	5.17E-03	6571	-0.30	6.82E-09	8849	-0.36	2.44E-12	11447	-0.13	1.39E-03	15329	0.09	1.33E-03
1825	-0.20	1.60E-14	4271	-0.30	2.21E-06	6572	-0.10	2.98E-03	8854	-0.22	7.75E-06	11456	0.08	3.23E-03	15331	-0.20	2.36E-10
1827	-0.20	4.57E-13	4272	0.10	8.03E-03	6576	0.20	4.51E-05	8855	-0.20	3.95E-12	11462	0.18	5.75E-08	15333	0.18	3.85E-12
1829	-0.30	2.00E-08	4274	-0.10	1.14E-07	6577	0.10	2.90E-04	8857	0.12	5.83E-07	11471	0.18	6.06E-13	15339	-0.13	2.99E-03
1833	-0.10	2.26E-03	4276	-0.10	4.57E-06	6578	-0.20	2.25E-03	8859	-0.11	1.30E-04	11475	0.13	1.09E-06	15351	0.17	2.42E-08
1836	-0.20	5.70E-06	4277	-0.20	1.70E-12	6580	-0.10	1.71E-04	8860	-0.24	6.03E-04	11480	-0.08	3.39E-03	15368	-0.18	8.90E-10
1837	0.10	1.15E-03	4278	-0.10	6.50E-08	6582	0.20	1.52E-14	8861	-0.11	8.31E-05	11485	-0.23	2.04E-09	15375	-0.11	2.87E-04
1843	-0.10	5.75E-03	4279	-0.10	1.47E-05	6583	-0.20	6.43E-09	8864	-0.19	1.78E-03	11489	0.20	6.48E-06	682	-0.06	5.00E-02

1846	-0.20	7.26E-09	4284	-0.10	1.85E-03	6584	-0.10	1.95E-05	8865	-0.17	7.61E-09	11492	-0.12	1.84E-06	1839	0.03	5.00E-02
1847	-0.10	1.58E-03	4285	0.10	1.15E-03	6585	-0.10	6.98E-03	8867	0.17	9.66E-10	11496	-0.11	1.36E-04	2033	-0.06	5.00E-02
1849	0.10	1.10E-06	4289	0.10	7.74E-04	6587	0.10	6.90E-05	8870	-0.07	7.18E-03	11497	0.29	3.41E-22	2139	-0.03	5.00E-02
1853	0.30	7.62E-08	4297	0.20	3.78E-12	6591	0.10	1.79E-05	8883	-0.26	8.64E-04	11499	0.12	2.91E-06	2372	0.15	5.00E-02
1856	0.10	6.82E-03	4298	-0.10	8.28E-03	6596	-0.10	4.10E-04	8888	0.11	5.73E-06	11501	0.11	7.34E-06	2395	-0.03	5.00E-02
1857	0.10	5.85E-03	4299	-0.20	2.74E-09	6600	0.20	2.78E-12	8893	0.12	1.21E-06	11518	-0.10	5.79E-04	2520	0.07	5.00E-02
1858	-0.10	4.93E-09	4301	-0.30	6.09E-10	6601	-0.10	2.56E-05	8897	0.08	3.38E-03	11520	-0.13	5.77E-03	2529	0.05	5.00E-02
1859	-0.10	3.26E-04	4304	0.20	1.00E-03	6603	-0.10	9.81E-05	8898	-0.20	1.87E-16	11521	0.09	4.81E-03	2672	-0.04	5.00E-02
1862	-0.20	2.39E-13	4305	-0.10	5.30E-03	6606	0.10	3.60E-03	8899	-0.17	1.28E-12	11536	-0.11	1.17E-04	2775	-0.03	5.00E-02
1864	-0.10	2.49E-04	4313	0.20	6.82E-13	6607	-0.10	1.11E-03	8902	0.17	1.68E-05	11547	0.14	7.28E-08	2919	-0.06	5.00E-02
1867	-0.20	2.60E-07	4314	0.10	1.33E-04	6615	0.20	4.57E-09	8903	0.17	9.65E-06	11549	-0.18	1.76E-06	2975	-0.06	5.00E-02
1869	0.20	2.82E-14	4315	-0.20	1.55E-12	6617	0.20	2.85E-05	8904	-0.11	5.24E-04	11551	-0.14	2.56E-07	3345	-0.06	5.00E-02
1871	-0.10	1.44E-07	4319	-0.10	2.08E-03	6619	-0.20	2.22E-10	8908	-0.24	1.03E-22	11553	0.11	3.75E-06	3536	0.05	5.00E-02
1873	0.10	3.39E-03	4321	-0.20	1.67E-06	6621	-0.20	2.12E-07	8909	-0.20	8.50E-05	11555	-0.14	1.16E-06	3718	-0.05	5.00E-02
1875	-0.20	4.56E-05	4326	-0.10	1.38E-03	6626	-0.20	4.16E-12	8910	0.20	2.57E-15	11556	0.28	1.80E-18	3948	-0.02	5.00E-02
1876	0.10	1.78E-05	4327	0.10	7.22E-04	6630	-0.10	1.56E-04	8911	0.13	1.09E-07	11560	-0.08	1.32E-03	4008	-0.05	5.00E-02
1879	-0.10	1.15E-04	4328	0.20	1.84E-04	6633	-0.10	5.40E-05	8914	0.18	2.49E-07	11564	0.09	3.57E-03	4113	-0.03	5.00E-02
1882	0.10	8.16E-03	4329	-0.10	8.97E-03	6635	-0.20	2.13E-09	8915	-0.13	4.91E-05	11569	0.08	3.94E-03	4273	0.16	5.00E-02
1884	-0.20	1.46E-12	4331	-0.10	5.33E-03	6639	0.20	4.31E-21	8916	-0.13	7.33E-05	11574	-0.19	1.42E-04	4540	-0.03	5.00E-02
1889	-0.20	1.42E-20	4332	-0.10	2.61E-05	6640	-0.20	3.14E-10	8919	-0.19	9.29E-10	11577	0.10	4.54E-05	4759	0.03	5.00E-02
1890	0.30	1.77E-14	4333	-0.20	1.55E-04	6643	0.20	5.48E-14	8922	-0.17	2.97E-12	11582	0.08	6.89E-05	4823	0.11	5.00E-02
1893	0.20	2.68E-05	4334	0.20	6.05E-20	6644	-0.10	6.88E-04	8925	0.06	9.93E-03	11589	0.13	2.34E-04	5773	-0.11	5.00E-02
1896	0.10	1.69E-03	4335	0.20	3.27E-07	6647	0.10	9.35E-05	8928	-0.15	8.27E-07	11593	0.09	8.86E-03	6032	-0.04	5.00E-02
1900	0.20	8.32E-08	4341	0.10	8.76E-07	6648	-0.30	1.09E-06	8934	-0.15	3.64E-06	11594	0.19	3.81E-14	6393	-0.06	5.00E-02
1905	-0.20	3.09E-04	4343	0.20	5.38E-07	6651	-0.20	2.17E-05	8941	-0.17	3.47E-03	11600	-0.10	1.44E-04	6424	0.03	5.00E-02
1906	-0.10	1.86E-05	4345	0.10	6.56E-04	6654	-0.10	3.20E-03	8944	0.06	9.37E-03	11602	0.19	1.80E-08	6670	0.06	5.00E-02
1910	0.30	4.94E-08	4350	0.10	1.38E-04	6658	-0.10	5.42E-05	8946	-0.17	3.38E-04	11603	0.12	4.13E-05	6744	-0.03	5.00E-02
1912	0.10	8.46E-03	4352	0.20	1.09E-13	6659	0.20	1.37E-23	8952	0.13	1.29E-05	11605	-0.24	3.85E-21	6905	-0.03	5.00E-02
1914	0.10	1.74E-03	4354	0.10	1.32E-04	6660	-0.30	1.49E-19	8954	0.24	9.36E-22	11618	0.21	4.50E-14	7017	-0.05	5.00E-02
1922	-0.10	2.42E-08	4358	0.30	3.49E-07	6669	0.10	1.32E-05	8957	0.12	4.55E-05	11619	0.08	7.49E-04	7555	-0.13	5.00E-02
1924	-0.10	3.13E-04	4362	-0.20	3.26E-12	6671	-0.20	7.06E-12	8958	0.07	8.58E-03	11622	0.13	1.49E-06	7589	0.04	5.00E-02
1926	0.10	1.89E-08	4371	0.10	3.12E-03	6672	-0.10	1.54E-03	8959	-0.25	2.60E-12	11623	0.07	3.10E-03	7675	-0.08	5.00E-02
1927	-0.20	1.36E-06	4379	-0.40	8.47E-08	6675	-0.20	1.61E-05	8960	-0.15	1.75E-08	11628	-0.14	9.41E-08	7855	0.10	5.00E-02
1928	-0.30	1.22E-21	4386	-0.20	7.58E-13	6676	-0.20	2.32E-09	8963	-0.19	1.19E-05	11631	0.10	9.96E-05	8113	0.07	5.00E-02
1929	0.10	8.41E-10	4387	-0.10	8.86E-04	6677	0.10	6.61E-03	8965	-0.10	6.68E-05	11636	0.15	1.98E-08	8175	0.02	5.00E-02
1930	0.20	6.98E-10	4395	0.10	4.18E-06	6678	0.20	2.57E-10	8966	0.08	3.03E-03	11639	-0.15	3.72E-06	8507	-0.03	5.00E-02
1931	0.20	2.45E-05	4396	0.20	1.95E-22	6679	-0.10	6.05E-04	8967	0.17	1.86E-05	11641	0.14	1.93E-05	8657	0.05	5.00E-02
1932	-0.20	6.73E-03	4398	-0.20	1.45E-08	6680	0.10	8.97E-03	8968	0.10	5.14E-04	11647	-0.39	7.71E-11	9579	0.04	5.00E-02
1933	-0.10	2.04E-03	4399	0.20	2.37E-05	6681	0.20	1.52E-10	8969	-0.10	6.93E-04	11649	-0.20	1.29E-14	10521	0.08	5.00E-02
1938	-0.20	2.64E-08	4400	-0.20	9.98E-07	6683	-0.10	6.39E-07	8970	-0.10	1.12E-05	11652	-0.27	1.57E-08	10527	0.05	5.00E-02
1939	0.20	1.68E-14	4401	-0.30	2.16E-11	6685	-0.10	4.69E-03	8971	0.09	1.38E-05	11656	-0.15	2.56E-04	10745	0.19	5.00E-02
1941	0.30	3.13E-26	4405	-0.20	2.78E-05	6686	-0.10	4.74E-04	8977	0.15	4.74E-08	11659	-0.15	3.23E-10	10756	0.50	5.00E-02
1942	-0.20	1.20E-06	4407	-0.10	8.72E-04	6688	-0.10	9.54E-03	8980	-0.13	1.92E-06	11666	-0.14	6.21E-04	10835	0.02	5.00E-02
1944	0.10	2.28E-03	4410	-0.10	2.15E-05	6689	-0.10	2.00E-04	8981	-0.26	1.10E-18	11680	-0.09	3.11E-04	10909	0.04	5.00E-02
1952	-0.20	6.79E-05	4415	-0.20	2.59E-10	6690	-0.30	4.53E-14	8985	-0.43	2.54E-10	11684	0.18	3.97E-08	11170	-0.28	5.00E-02
1956	0.20	4.50E-06	4417	0.20	2.23E-10	6692	0.10	1.35E-03	8987	-0.12	1.18E-05	11685	-0.16	2.13E-07	11242	-0.21	5.00E-02
1964	0.10	4.29E-06	4419	-0.10	4.67E-03	6697	0.20	6.93E-20	8996	0.11	1.90E-04	11692	-0.33	1.62E-08	11319	-0.21	5.00E-02
1965	0.10	7.90E-03	4425	0.10	1.74E-05	6703	-0.10	7.00E-06	8997	0.12	1.57E-06	11701	-0.20	5.33E-12	11674	0.03	5.00E-02
1969	0.10	1.90E-03	4426	-0.20	2.95E-11	6706	-0.10	7.96E-04	8999	0.15	1.16E-05	11704	0.12	4.57E-03	11718	-0.17	5.00E-02
1971	0.10	1.76E-09	4427	-0.10	7.33E-05	6708	-0.20	1.50E-08	9000	-0.14	1.98E-03	11714	-0.12	1.69E-04	12026	0.07	5.00E-02
1974	-0.10	6.60E-09	4430	0.10	1.09E-07	6709	0.20	2.01E-14	9003	0.19	8.12E-14	11717	-0.13	2.27E-07	12143	-0.03	5.00E-02
1978	-0.20	2.98E-06	4435	-0.30	2.03E-06	6711	-0.20	1.54E-04	9006	0.10	4.73E-05	11719	-0.22	1.66E-11	12161	-0.22	5.00E-02
1980	0.10	2.19E-03	4440	-0.20	1.99E-03	6712	0.10	3.87E-03	9010	-0.15	6.96E-10	11722	-0.15	3.17E-10	12318	-0.41	5.00E-02
1981	0.30	3.30E-19	4446	-0.30	5.47E-19	6714	-0.20	8.96E-13	9011	0.17	7.62E-12	11726	0.11	1.36E-05	12388	0.25	5.00E-02
1985	-0.10	8.02E-04	4450	-0.10	1.31E-07	6716	0.10	9.18E-07	9013	-0.11	1.15E-04	11728	-0.19	2.88E-06	12763	-0.11	5.00E-02
1986	-0.20	5.04E-05	4451	-0.10	1.86E-04	6717	0.10	5.51E-06	9015	-0.12	9.84E-03	11735	-0.14	4.16E-04	12841	0.22	5.00E-02
1988	-0.10	8.07E-06	4452	-0.10	1.72E-04	6718	-0.20	1.70E-06	9023	-0.08	1.18E-03	11742	0.11	4.99E-03	12890	-0.04	5.00E-02
1990	-0.30	1.22E-09	4454	0.10	4.57E-04	6722	-0.10	5.29E-06	9027	-0.20	7.91E-14	11745	-0.07	7.24E-03	12915	0.16	5.00E-02

1993	0.10	7.13E-06	4458	-0.10	6.51E-03	6724	0.20	3.29E-10	9032	0.14	3.70E-04	11754	-0.19	1.54E-09	13041	0.22	5.00E-02
1996	0.30	1.07E-13	4468	-0.10	3.04E-03	6727	0.30	2.69E-13	9035	0.07	8.07E-03	11756	0.11	6.58E-06	13082	0.10	5.00E-02
1999	0.10	8.22E-07	4470	0.10	2.04E-06	6729	0.10	1.44E-04	9040	-0.10	2.35E-04	11757	-0.15	4.74E-07	13096	-0.03	5.00E-02
2002	-0.50	1.27E-08	4471	-0.30	1.09E-04	6735	0.20	1.14E-07	9043	-0.30	4.32E-09	11758	-0.18	1.07E-05	13428	-0.14	5.00E-02
2004	0.20	1.62E-07	4472	-0.10	3.96E-06	6748	0.10	2.52E-06	9046	-0.21	1.23E-10	11765	0.16	1.33E-05	13451	-0.16	5.00E-02
2009	-0.20	4.13E-17	4473	-0.20	1.07E-04	6749	-0.30	5.69E-10	9049	-0.29	2.08E-07	11771	0.10	4.93E-05	13770	0.23	5.00E-02
2013	0.10	1.01E-04	4476	-0.10	8.25E-06	6751	-0.10	3.37E-04	9050	-0.21	9.11E-10	11788	-0.23	5.29E-07	13844	-0.06	5.00E-02
2015	-0.20	1.15E-04	4477	-0.10	2.82E-03	6754	0.10	5.91E-04	9054	-0.11	9.07E-04	11803	-0.16	2.89E-06	13956	-0.16	5.00E-02
2017	-0.10	1.57E-04	4478	-0.30	2.41E-22	6755	0.20	4.18E-18	9055	-0.18	2.29E-09	11809	-0.14	4.38E-07	14022	0.13	5.00E-02
2018	0.10	1.00E-06	4480	-0.10	8.82E-03	6757	-0.30	3.20E-20	9057	-0.12	6.54E-08	11818	-0.19	5.86E-06	14196	0.30	5.00E-02
2019	0.10	9.66E-09	4481	0.10	5.13E-04	6758	-0.10	4.21E-03	9059	-0.17	1.92E-05	11825	0.18	4.59E-12	14387	-0.20	5.00E-02
2020	-0.10	3.38E-03	4482	-0.10	5.35E-04	6762	-0.10	1.81E-03	9063	-0.07	9.24E-03	11833	-0.12	6.73E-04	14435	0.08	5.00E-02
2024	0.20	4.60E-09	4485	-0.20	1.21E-09	6764	0.10	1.70E-04	9064	-0.08	3.30E-03	11839	-0.11	1.09E-03	14749	-0.13	5.00E-02
2026	-0.10	5.95E-03	4486	0.20	1.16E-05	6765	0.10	1.47E-04	9065	0.14	7.52E-06	11847	0.14	2.43E-07	15290	0.12	5.00E-02
2030	0.20	1.10E-09	4487	0.30	9.27E-28	6774	-0.20	1.92E-07	9070	0.14	1.40E-04	11848	0.11	7.26E-03	15317	0.04	5.00E-02
2035	-0.10	8.62E-05	4493	-0.20	2.17E-09	6775	0.10	1.10E-03	9072	0.09	8.84E-04	11856	0.09	3.02E-04	15324	-0.08	5.00E-02
2037	-0.10	3.73E-06	4501	0.20	2.51E-11	6776	0.10	9.92E-08	9074	0.11	1.95E-04	11862	0.10	5.34E-03	12095	-0.12	3.75E-05
2038	0.20	1.73E-05	4505	0.10	6.96E-05	6780	-0.20	2.28E-18	9077	0.16	2.59E-06	11863	-0.09	4.21E-04	12107	-0.12	4.55E-03
2043	-0.10	3.58E-03	4512	-0.10	7.00E-04	6783	-0.10	4.08E-05	9081	0.11	1.68E-05	11866	-0.09	3.78E-04	12110	-0.18	5.14E-04
2044	-0.20	6.11E-12	4515	0.10	7.17E-04	6790	-0.20	1.43E-09	9084	-0.17	3.29E-07	11874	0.16	2.17E-04	12118	-0.19	9.30E-05
2048	0.10	5.99E-07	4517	0.10	5.46E-07	6795	0.10	3.03E-04	9087	-0.11	3.79E-06	11875	-0.21	3.09E-06	12126	0.13	9.16E-08
2049	0.20	4.08E-09	4522	-0.10	9.14E-05	6798	0.10	9.06E-04	9089	-0.14	1.03E-05	11887	-0.10	1.06E-04	12130	-0.29	1.29E-04
2056	-0.10	1.75E-07	4523	0.20	1.25E-11	6799	0.10	2.33E-04	9090	0.13	4.74E-03	11888	-0.30	4.99E-10	12131	-0.18	4.33E-04
2057	0.10	4.31E-04	4525	-0.20	7.11E-07	6806	-0.10	4.76E-03	9091	0.07	8.72E-03	11890	-0.19	6.31E-16	12132	0.14	1.73E-08
2059	0.20	6.35E-11	4528	-0.20	3.98E-10	6808	-0.20	1.16E-05	9093	0.14	1.74E-06	11895	0.12	1.31E-03	12141	-0.06	7.30E-04
2068	0.10	3.98E-03	4529	-0.30	2.06E-06	6813	-0.10	1.68E-03	9094	0.13	3.09E-05	11896	-0.09	9.02E-04	12147	0.10	1.21E-03
2075	-0.20	1.31E-15	4536	0.20	3.54E-13	6817	-0.30	2.44E-06	9095	-0.25	1.11E-05	11897	0.11	4.53E-05	12153	-0.17	1.36E-07
2077	0.20	1.83E-21	4537	-0.10	6.58E-04	6818	-0.30	3.87E-38	9096	-0.07	6.90E-03	11898	-0.22	1.00E-15	12154	-0.13	3.03E-07
2088	0.10	7.80E-08	4541	-0.10	4.97E-05	6819	-0.20	6.42E-05	9098	0.07	5.16E-03	11899	-0.08	4.35E-03	12162	-0.19	1.35E-13
2089	-0.10	1.79E-03	4542	0.30	4.48E-28	6820	-0.30	9.49E-06	9101	0.28	4.07E-28	11900	-0.33	1.89E-20	12165	0.18	2.71E-04
2090	-0.10	2.39E-05	4543	0.20	2.34E-07	6834	-0.10	3.19E-03	9102	-0.06	7.08E-03	11901	0.12	4.01E-07	12166	-0.27	3.89E-12
2093	-0.20	1.67E-19	4544	-0.10	8.10E-04	6835	0.10	5.88E-03	9103	0.22	6.79E-10	11902	-0.24	9.04E-06	12168	0.13	7.29E-07
2094	-0.10	3.43E-05	4545	0.10	7.24E-03	6836	-0.10	1.64E-05	9106	-0.20	2.17E-04	11903	0.17	9.45E-06	12170	-0.15	2.30E-06
2098	0.10	8.07E-03	4549	0.20	7.50E-06	6839	0.20	6.85E-25	9110	-0.24	8.28E-06	11908	0.11	1.78E-05	12173	0.09	6.23E-03
2101	-0.10	9.34E-03	4550	-0.10	9.10E-03	6842	-0.20	8.43E-04	9113	-0.16	1.15E-04	11918	0.13	7.05E-07	12174	-0.22	1.76E-20
2102	-0.10	1.20E-03	4551	-0.20	2.02E-09	6843	-0.20	9.70E-09	9122	0.10	6.52E-04	11920	0.11	1.44E-04	12175	0.10	1.16E-04
2105	0.20	3.64E-07	4554	0.10	7.85E-04	6844	-0.20	6.20E-04	9125	-0.27	4.32E-07	11929	0.12	3.96E-09	12177	0.14	1.32E-05
2107	0.20	2.29E-12	4558	0.10	2.48E-05	6849	-0.50	5.68E-11	9127	-0.19	2.33E-12	11932	-0.16	1.26E-05	12186	0.19	8.22E-14
2110	0.10	2.31E-03	4559	0.10	3.35E-05	6856	-0.10	3.42E-05	9129	0.30	2.21E-36	11936	-0.09	4.10E-04	12187	-0.11	8.39E-06
2114	-0.20	2.37E-04	4560	-0.10	5.39E-07	6862	-0.30	1.02E-06	9132	-0.12	1.32E-06	11939	-0.12	4.30E-04	12190	-0.18	9.20E-11
2115	-0.30	8.45E-05	4561	0.10	3.85E-05	6867	-0.10	5.12E-03	9136	-0.28	4.86E-06	11940	-0.13	2.94E-06	12193	-0.13	1.53E-06
2116	-0.20	2.23E-05	4565	0.10	3.17E-04	6869	-0.20	2.35E-15	9138	0.27	6.08E-28	11943	0.16	2.76E-05	12194	-0.12	2.95E-03
2117	-0.10	8.16E-05	4567	-0.20	7.16E-09	6870	-0.30	3.80E-05	9140	0.15	2.32E-05	11947	-0.10	4.84E-05	12200	0.15	2.60E-08
2118	0.10	7.18E-04	4568	-0.10	1.84E-03	6876	0.10	1.79E-04	9142	0.11	1.10E-05	11959	0.17	5.08E-06	12207	-0.13	4.82E-04
2123	0.20	6.19E-07	4572	-0.20	6.46E-04	6879	-0.10	7.01E-05	9150	0.07	4.31E-03	11961	-0.21	1.06E-16	12208	0.17	1.30E-11
2125	-0.20	1.28E-03	4575	0.10	1.22E-03	6887	-0.20	6.97E-09	9154	-0.17	1.70E-04	11963	0.12	3.61E-07	12211	-0.13	9.49E-03
2126	0.20	9.21E-13	4576	0.10	3.76E-04	6889	-0.10	1.76E-03	9155	-0.10	2.88E-03	11972	-0.24	5.89E-05	12214	0.21	3.60E-10
2128	-0.10	5.10E-03	4578	0.10	1.21E-07	6894	0.20	4.70E-08	9158	0.09	1.73E-03	11976	-0.18	6.51E-06	12215	-0.24	1.84E-08
2131	-0.30	1.62E-05	4580	-0.10	1.56E-04	6895	0.10	2.84E-07	9161	0.11	5.55E-05	11977	-0.12	2.38E-06	12219	-0.11	3.33E-05
2132	-0.10	2.58E-03	4581	0.20	4.96E-21	6899	0.20	6.63E-07	9165	0.13	7.42E-13	11982	-0.15	8.27E-03	12224	-0.12	7.60E-04
2134	0.10	8.03E-08	4582	0.20	4.93E-12	6900	-0.10	1.25E-03	9166	-0.16	8.42E-10	11999	0.10	4.73E-04	12228	-0.33	1.72E-08
2136	-0.10	1.42E-06	4583	0.20	6.35E-22	6910	0.20	1.68E-11	9173	0.18	3.02E-13	12000	-0.23	6.26E-19	12230	0.29	6.42E-14
2137	0.10	4.67E-03	4584	0.10	6.17E-07	6919	-0.10	3.84E-06	9174	0.21	4.16E-06	12010	0.09	6.57E-03	12232	0.16	7.94E-11
2138	0.10	9.47E-03	4586	-0.10	2.21E-03	6921	-0.10	6.81E-04	9178	-0.21	6.26E-08	12012	-0.10	9.99E-03	12235	-0.20	3.45E-06
2141	0.10	1.12E-04	4589	0.10	4.77E-05	6925	-0.30	3.05E-05	9179	-0.21	9.30E-08	12013	-0.08	9.39E-04	12240	0.11	2.11E-05
2145	-0.10	1.05E-08	4602	0.30	4.59E-46	6928	0.20	5.68E-11	9182	-0.07	9.80E-03	12022	-0.31	1.34E-12	12241	-0.38	8.01E-19
2146	-0.10	1.81E-03	4606	-0.10	2.89E-06	6933	-0.20	1.20E-05	9183	-0.15	4.06E-10	12030	-0.08	1.03E-03	12242	-0.14	2.98E-08
2152	-0.10	3.84E-03	4607	-0.10	2.41E-06	6934	-0.20	1.15E-05	9184	0.09	7.77E-04	12032	0.20	2.06E-14	12253	-0.13	2.82E-06

2163	-0.10	1.15E-04
2171	0.10	3.92E-04
2172	0.10	4.40E-07
2176	0.10	8.23E-03
2178	0.10	1.39E-04
2187	-0.20	7.49E-08
2195	-0.20	1.12E-13
2200	-0.30	1.46E-07
2201	0.10	1.07E-06
2203	-0.20	6.46E-06
2209	0.10	3.40E-03
2210	-0.10	2.74E-03
2211	0.20	7.08E-10
2215	0.10	3.78E-03
2218	0.20	9.53E-12
2224	0.20	1.39E-24
2226	-0.30	5.75E-06
2227	-0.20	6.27E-10
2228	-0.20	4.49E-06
2229	-0.20	4.25E-07
2231	0.20	3.59E-12
2232	-0.20	1.09E-04
2245	-0.10	7.97E-04
2248	-0.10	2.42E-05
2249	-0.10	2.96E-03
2250	-0.20	3.86E-13
2251	-0.20	5.19E-08
2254	-0.10	8.97E-03
2260	-0.20	5.13E-06
2261	-0.20	2.28E-10
2267	0.10	3.50E-03
2268	-0.10	9.69E-03
2275	-0.20	3.78E-16
2278	0.10	7.55E-03
2284	-0.10	1.70E-07
2285	-0.20	2.16E-13
2293	0.20	3.06E-11
2294	0.20	3.92E-11
2295	-0.20	6.64E-07
2300	0.30	6.03E-30
2303	0.30	1.17E-20
2304	0.10	6.98E-07
2311	0.10	1.87E-05
2314	0.10	1.20E-09
2315	0.20	3.48E-12
2316	0.20	2.94E-12
2318	-0.10	7.76E-03
2320	-0.10	6.45E-06
2323	0.20	3.64E-13
2324	-0.20	5.32E-17
2325	-0.20	8.82E-16
2328	0.10	4.42E-06
2329	-0.10	4.69E-04
2330	0.10	9.31E-03
2335	-0.30	1.68E-22
2336	0.10	3.57E-05
2338	0.10	5.76E-04
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4753	-0.10	2.11E-09
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-0.11	-0.11
0.12	0.12
-0.12	-0.12
0.10	0.10
-0.17	-0.17
-0.17	-0.17
0.18	0.18
-0.09	-0.09
0.15	0.15
0.16	0.16
-0.15	-0.15
0.09	0.09
-0.17	-0.17
-0.17	-0.17

-0.08	-0.08
0.20	0.20
0.15	0.15
-0.10	-0.10
-0.11	-0.11
-0.09	-0.09
-0.17	-0.17
0.10	0.10
-0.17	-0.17
-0.13	-0.13
-0.13	-0.13
-0.12	-0.12
0.12	0.12
0.11	0.11
0.07	0.07
-0.09	-0.09
-0.10	-0.10
0.11	0.11
-0.11	-0.11
-0.14	-0.14
-0.18	-0.18
-0.11	-0.11
-0.16	-0.16
-0.08	-0.08
-0.12	-0.12
-0.12	-0.12
0.18	0.18
-0.08	-0.08
-0.17	-0.17
0.14	0.14
0.10	0.10
0.09	0.09
0.20	0.20
0.12	0.12
0.15	0.15
0.24	0.24
0.12	0.12
0.14	0.14
-0.09	-0.09
-0.15	-0.15
-0.14	-0.14
0.17	0.17
-0.16	-0.16
0.09	0.09
-0.09	-0.09
0.09	0.09
0.13	0.13
0.12	0.12
-0.14	-0.14
-0.15	-0.15
0.09	0.09
-0.08	-0.08
-0.18	-0.18
0.15	0.15
0.11	0.11
0.20	0.20
-0.22	-0.22
0.14	0.14

0.10	0.10
0.15	0.15
-0.11	-0.11
-0.12	-0.12
-0.08	-0.08
0.15	0.15
0.10	0.10
-0.13	-0.13
0.12	0.12
-0.10	-0.10
0.09	0.09
0.13	0.13
-0.07	-0.07
0.12	0.12
-0.08	-0.08
0.15	0.15
-0.16	-0.16
-0.10	-0.10
-0.12	-0.12
0.24	0.24
-0.16	-0.16
-0.07	-0.07
0.08	0.08
-0.16	-0.16
-0.15	-0.15
0.09	0.09
-0.15	-0.15
-0.09	-0.09
-0.18	-0.18
-0.20	-0.20
0.12	0.12
0.14	0.14
0.10	0.10
-0.12	-0.12
0.11	0.11
0.09	0.09
-0.15	-0.15
-0.07	-0.07
0.14	0.14
-0.26	-0.26
-0.08	-0.08
-0.11	-0.11
-0.11	-0.11
-0.15	-0.15
-0.11	-0.11
0.07	0.07
-0.11	-0.11
-0.08	-0.08
-0.22	-0.22
0.07	0.07
-0.09	-0.09
-0.10	-0.10
-0.13	-0.13
0.20	0.20
0.13	0.13
0.09	0.09
0.16	0.16
0.12	0.12

0.14	0.14
-0.15	-0.15
0.14	0.14
0.20	0.20
0.08	0.08
0.08	0.08
0.10	0.10
0.14	0.14
0.11	0.11
0.08	0.08
-0.15	-0.15
-0.10	-0.10
0.07	0.07
0.15	0.15
-0.08	-0.08
0.08	0.08
-0.19	-0.19
0.09	0.09
0.07	0.07
0.12	0.12
0.16	0.16
0.11	0.11
0.10	0.10
-0.16	-0.16
0.08	0.08
0.17	0.17
0.07	0.07
-0.11	-0.11
0.09	0.09
-0.11	-0.11
0.11	0.11
0.11	0.11
-0.12	-0.12
0.10	0.10
-0.27	-0.27
-0.17	-0.17
-0.14	-0.14
-0.18	-0.18
-0.08	-0.08
0.11	0.11
-0.14	-0.14
-0.29	-0.29
-0.18	-0.18
-0.13	-0.13
-0.08	-0.08
-0.16	-0.16
-0.14	-0.14
-0.14	-0.14
-0.18	-0.18
0.17	0.17
-0.12	-0.12
0.07	0.07
-0.13	-0.13
0.13	0.13
0.12	0.12
-0.18	-0.18
-0.14	-0.14
0.14	0.14

-0.08	-0.08
0.11	0.11
0.12	0.12
-0.08	-0.08
-0.07	-0.07
-0.21	-0.21
-0.14	-0.14
-0.19	-0.19
-0.15	-0.15
0.12	0.12
-0.14	-0.14
-0.21	-0.21
0.10	0.10
-0.14	-0.14
0.10	0.10
0.09	0.09
0.07	0.07
0.08	0.08
-0.08	-0.08
-0.10	-0.10
-0.09	-0.09
0.10	0.10
-0.14	-0.14
0.09	0.09
-0.19	-0.19
-0.16	-0.16
-0.09	-0.09
-0.15	-0.15
0.09	0.09
-0.13	-0.13
-0.30	-0.30
-0.08	-0.08
0.16	0.16
0.10	0.10
-0.16	-0.16
0.10	0.10
0.09	0.09
-0.13	-0.13
-0.17	-0.17
-0.16	-0.16
0.10	0.10
0.12	0.12
0.13	0.13
-0.10	-0.10
-0.16	-0.16
-0.18	-0.18
0.16	0.16
-0.05	-0.05
-0.13	-0.13
-0.12	-0.12
-0.08	-0.08
-0.14	-0.14
-0.22	-0.22
0.10	0.10
-0.12	-0.12
-0.18	-0.18
0.12	0.12
0.10	0.10

0.16	0.16
-0.08	-0.08
-0.11	-0.11
-0.08	-0.08
-0.15	-0.15
0.14	0.14
-0.12	-0.12
0.09	0.09
0.16	0.16
-0.22	-0.22
-0.11	-0.11
-0.29	-0.29
0.15	0.15
0.11	0.11
-0.17	-0.17
0.11	0.11
-0.22	-0.22
-0.08	-0.08
-0.09	-0.09
-0.08	-0.08
0.10	0.10
-0.17	-0.17
0.16	0.16
0.21	0.21
0.11	0.11
0.23	0.23
0.12	0.12
-0.25	-0.25
-0.15	-0.15
-0.08	-0.08
0.07	0.07
0.18	0.18
0.12	0.12
0.13	0.13
-0.10	-0.10
0.08	0.08
0.11	0.11
-0.21	-0.21
0.15	0.15
0.09	0.09
-0.17	-0.17
-0.16	-0.16
-0.13	-0.13
0.09	0.09
0.18	0.18
-0.16	-0.16
0.10	0.10
-0.07	-0.07
-0.07	-0.07
-0.16	-0.16
0.16	0.16
0.11	0.11
0.19	0.19
0.08	0.08
0.14	0.14
-0.19	-0.19
0.07	0.07
0.10	0.10

-0.06	-0.06
-0.15	-0.15
-0.13	-0.13
-0.19	-0.19
-0.15	-0.15
-0.21	-0.21
0.07	0.07
0.13	0.13
-0.18	-0.18
0.14	0.14
-0.09	-0.09
0.12	0.12
-0.12	-0.12
0.10	0.10
-0.12	-0.12
0.14	0.14
-0.07	-0.07
-0.15	-0.15
0.11	0.11
-0.24	-0.24
0.09	0.09
-0.11	-0.11
0.10	0.10
-0.19	-0.19
0.12	0.12
-0.15	-0.15
-0.15	-0.15
-0.12	-0.12
-0.15	-0.15
-0.14	-0.14
0.10	0.10
-0.15	-0.15
-0.22	-0.22
0.07	0.07
-0.14	-0.14
-0.07	-0.07
-0.14	-0.14
-0.21	-0.21
-0.27	-0.27
0.08	0.08
0.15	0.15
-0.15	-0.15
0.13	0.13
-0.08	-0.08
0.07	0.07
-0.17	-0.17
-0.14	-0.14
-0.20	-0.20
0.11	0.11
-0.26	-0.26
-0.14	-0.14
-0.15	-0.15
-0.09	-0.09
0.10	0.10
-0.19	-0.19
0.10	0.10
0.12	0.12
0.09	0.09

-0.07	-0.07
0.09	0.09
-0.20	-0.20
-0.17	-0.17
-0.09	-0.09
0.07	0.07
-0.10	-0.10
-0.12	-0.12
-0.13	-0.13
-0.13	-0.13
-0.20	-0.20
-0.14	-0.14
-0.11	-0.11
0.24	0.24
0.08	0.08
-0.27	-0.27
-0.24	-0.24
-0.21	-0.21
0.15	0.15
-0.20	-0.20
-0.09	-0.09
-0.11	-0.11
0.08	0.08
-0.08	-0.08
0.14	0.14
0.15	0.15
-0.10	-0.10
-0.18	-0.18
0.09	0.09
-0.16	-0.16
0.16	0.16
0.13	0.13
-0.15	-0.15
-0.09	-0.09
0.07	0.07
-0.24	-0.24
-0.12	-0.12
-0.21	-0.21
0.10	0.10
0.09	0.09
-0.25	-0.25
0.09	0.09
0.16	0.16
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0.10	0.10
-0.15	-0.15
0.08	0.08
-0.18	-0.18
-0.14	-0.14
-0.14	-0.14
0.10	0.10
-0.10	-0.10
0.10	0.10
0.13	0.13
-0.19	-0.19
0.09	0.09
0.15	0.15
0.08	0.08

-0.24	-0.24
-0.19	-0.19
0.09	0.09
-0.21	-0.21
-0.13	-0.13
-0.12	-0.12
-0.08	-0.08
0.13	0.13
0.12	0.12
0.10	0.10
-0.17	-0.17
-0.07	-0.07
-0.16	-0.16
-0.21	-0.21
0.07	0.07
0.11	0.11
0.15	0.15
-0.18	-0.18
0.23	0.23
0.18	0.18
-0.16	-0.16
0.07	0.07
-0.11	-0.11
-0.18	-0.18
-0.11	-0.11
0.10	0.10
0.08	0.08
-0.20	-0.20
0.09	0.09
0.10	0.10
-0.08	-0.08
-0.08	-0.08
0.13	0.13
0.11	0.11
-0.14	-0.14
-0.11	-0.11
0.15	0.15
-0.26	-0.26
0.14	0.14
0.15	0.15
0.10	0.10
-0.24	-0.24
-0.17	-0.17
0.09	0.09
-0.30	-0.30
-0.15	-0.15
0.17	0.17
0.15	0.15
-0.15	-0.15
-0.13	-0.13
-0.19	-0.19
0.09	0.09
-0.16	-0.16
-0.09	-0.09
0.14	0.14
0.19	0.19
-0.09	-0.09
0.09	0.09

0.08	0.08
0.10	0.10
0.07	0.07
0.08	0.08
-0.14	-0.14
-0.09	-0.09
-0.17	-0.17
0.09	0.09
0.10	0.10
0.12	0.12
-0.31	-0.31
0.10	0.10
-0.08	-0.08
-0.08	-0.08
-0.16	-0.16
0.23	0.23
0.15	0.15
0.08	0.08
-0.25	-0.25
-0.17	-0.17
-0.28	-0.28
-0.15	-0.15
0.17	0.17
0.14	0.14
0.11	0.11
-0.23	-0.23
-0.09	-0.09
0.17	0.17
0.10	0.10
0.08	0.08
-0.23	-0.23
0.15	0.15
-0.13	-0.13
-0.12	-0.12
-0.11	-0.11
-0.12	-0.12
-0.10	-0.10
0.17	0.17
-0.16	-0.16
0.21	0.21
-0.19	-0.19
0.07	0.07
0.13	0.13
-0.09	-0.09
-0.08	-0.08
-0.07	-0.07
0.09	0.09
0.12	0.12
0.10	0.10
-0.15	-0.15
-0.07	-0.07
0.12	0.12
0.09	0.09
-0.14	-0.14
-0.11	-0.11
0.14	0.14
-0.16	-0.16
0.16	0.16

-0.08	-0.08
-0.15	-0.15
-0.16	-0.16
-0.10	-0.10
-0.12	-0.12
-0.12	-0.12
0.10	0.10
-0.25	-0.25
-0.12	-0.12
-0.12	-0.12
0.11	0.11
-0.14	-0.14
0.18	0.18
-0.14	-0.14
-0.09	-0.09
-0.12	-0.12
-0.21	-0.21
-0.12	-0.12
0.12	0.12
-0.12	-0.12
0.08	0.08
0.18	0.18
-0.19	-0.19
0.09	0.09
0.13	0.13
-0.07	-0.07
-0.16	-0.16
0.25	0.25
-0.05	-0.05
-0.10	-0.10
-0.11	-0.11
-0.07	-0.07
0.08	0.08
0.10	0.10
-0.15	-0.15
-0.08	-0.08
-0.18	-0.18
0.21	0.21
-0.20	-0.20
-0.15	-0.15
-0.07	-0.07
0.12	0.12
0.08	0.08
0.15	0.15
-0.09	-0.09
0.15	0.15
0.07	0.07
-0.09	-0.09
0.10	0.10
0.10	0.10
-0.17	-0.17
0.15	0.15
-0.13	-0.13
-0.24	-0.24
-0.18	-0.18
-0.25	-0.25
0.13	0.13
0.10	0.10

-0.14	-0.14
-0.08	-0.08
-0.21	-0.21
-0.19	-0.19
-0.09	-0.09
-0.16	-0.16
0.10	0.10
-0.13	-0.13
0.07	0.07
-0.16	-0.16
-0.16	-0.16
-0.19	-0.19
0.12	0.12
0.11	0.11
-0.08	-0.08
0.08	0.08
0.11	0.11
0.07	0.07
-0.08	-0.08
0.15	0.15
-0.13	-0.13
0.08	0.08
-0.08	-0.08
-0.18	-0.18
-0.07	-0.07
0.08	0.08
0.15	0.15
-0.21	-0.21
0.17	0.17
-0.16	-0.16
0.13	0.13
0.08	0.08
-0.18	-0.18
-0.08	-0.08
-0.10	-0.10
0.09	0.09
-0.13	-0.13
0.14	0.14
0.11	0.11
-0.20	-0.20
0.15	0.15
0.15	0.15
0.09	0.09
0.17	0.17
-0.11	-0.11
-0.11	-0.11
0.12	0.12
-0.17	-0.17
-0.15	-0.15
-0.23	-0.23
0.07	0.07
0.11	0.11
0.08	0.08
0.13	0.13
-0.21	-0.21
-0.26	-0.26
-0.14	-0.14
-0.12	-0.12

0.09	0.09
0.12	0.12
0.08	0.08
-0.15	-0.15
0.14	0.14
0.12	0.12
-0.07	-0.07
-0.16	-0.16
-0.18	-0.18
0.12	0.12
-0.13	-0.13
-0.09	-0.09
-0.10	-0.10
-0.08	-0.08
0.12	0.12
-0.11	-0.11
-0.16	-0.16
-0.19	-0.19
-0.19	-0.19
0.11	0.11
-0.15	-0.15
-0.11	-0.11
-0.23	-0.23
0.13	0.13
-0.11	-0.11
-0.09	-0.09
0.12	0.12
-0.17	-0.17
0.15	0.15
-0.13	-0.13
-0.27	-0.27
0.07	0.07
-0.25	-0.25
-0.07	-0.07
0.09	0.09
-0.16	-0.16
-0.17	-0.17
0.14	0.14
0.12	0.12
0.12	0.12
0.09	0.09
0.10	0.10
0.12	0.12
0.07	0.07
0.11	0.11
0.16	0.16
-0.18	-0.18
-0.16	-0.16
0.10	0.10
0.10	0.10
-0.20	-0.20
-0.15	-0.15
-0.15	-0.15
-0.33	-0.33
-0.09	-0.09
-0.15	-0.15
-0.37	-0.37
-0.07	-0.07

-0.13	-0.13
-0.15	-0.15
-0.09	-0.09
-0.09	-0.09
-0.16	-0.16
-0.24	-0.24
0.07	0.07
-0.18	-0.18
-0.11	-0.11
0.10	0.10
-0.12	-0.12
0.13	0.13
-0.12	-0.12
0.13	0.13
-0.07	-0.07
0.08	0.08
-0.08	-0.08
0.07	0.07
-0.17	-0.17
-0.09	-0.09
0.08	0.08
-0.14	-0.14
-0.14	-0.14
-0.13	-0.13
0.13	0.13
0.09	0.09
-0.18	-0.18
-0.22	-0.22
0.11	0.11
0.10	0.10
-0.21	-0.21
0.17	0.17
0.19	0.19
0.15	0.15
-0.15	-0.15
-0.15	-0.15
-0.16	-0.16
0.14	0.14
0.12	0.12
0.07	0.07
-0.13	-0.13
-0.09	-0.09
0.08	0.08

TABLE 34 - GENETIC MARKERS FOR CHEST WIDTH

A	B	C	A	B	C	A	B	C
1	-0.10	3.00E-07	2261	0.10	6.28E-03	4485	0.10	6.47E-04
3	-0.10	4.18E-06	2272	0.10	6.54E-04	4491	0.10	6.19E-05
8	-0.10	2.63E-04	2276	0.10	3.79E-04	4492	0.10	3.89E-04
17	-0.10	9.45E-03	2285	0.10	3.15E-09	4501	-0.10	5.44E-03
32	0.10	4.43E-05	2288	-0.10	6.59E-03	4505	-0.10	3.62E-03
35	0.10	1.63E-03	2293	-0.10	1.58E-03	4506	-0.10	8.04E-06
43	-0.10	3.86E-04	2294	-0.10	2.07E-03	4512	0.10	1.88E-08
50	0.10	9.57E-04	2298	-0.10	1.04E-07	4516	0.00	3.06E-03
51	0.10	1.44E-04	2300	-0.10	5.80E-04	4523	-0.10	4.24E-03
54	-0.10	7.51E-04	2304	-0.10	4.58E-05	4528	0.20	4.66E-11
57	0.10	2.01E-09	2307	0.10	3.86E-03	4530	0.10	1.21E-04
66	0.10	6.13E-09	2312	-0.10	5.54E-03	4535	-0.10	5.52E-06
77	0.10	7.93E-06	2314	-0.10	7.07E-03	4537	0.10	4.99E-03
82	0.10	8.34E-05	2315	-0.20	2.82E-10	4542	-0.10	1.31E-06
83	0.10	1.77E-04	2322	-0.10	1.35E-05	4544	0.10	1.61E-05
93	-0.10	4.41E-07	2323	-0.10	2.79E-05	4554	-0.10	1.88E-06
97	0.10	1.78E-06	2328	-0.10	8.12E-04	4558	0.10	6.46E-03
101	0.20	1.00E-17	2337	-0.10	2.85E-03	4559	0.10	8.47E-03
106	-0.10	9.14E-09	2338	-0.10	1.10E-05	4564	0.20	9.11E-04
138	0.10	1.19E-03	2341	-0.10	8.59E-06	4565	-0.10	8.49E-04
143	-0.10	8.28E-03	2343	0.10	1.51E-05	4572	0.10	1.72E-03
145	-0.10	1.21E-07	2346	-0.10	5.03E-03	4576	-0.10	2.57E-06
150	-0.10	2.93E-09	2357	0.10	5.14E-03	4577	0.20	1.04E-08
157	-0.10	3.60E-07	2369	0.10	6.38E-07	4579	0.10	6.42E-03
162	0.20	8.56E-05	2371	0.20	2.39E-07	4581	-0.10	1.63E-04
167	-0.10	1.29E-03	2373	0.20	2.20E-05	4584	-0.10	8.68E-04
174	-0.10	8.55E-03	2380	-0.10	5.19E-04	4599	-0.20	2.19E-10
176	0.10	1.68E-09	2388	0.10	4.32E-04	4613	-0.10	1.72E-03
183	-0.10	1.14E-05	2398	0.10	2.22E-03	4619	0.10	1.14E-03
184	-0.10	3.09E-04	2404	-0.10	6.56E-05	4620	-0.10	2.25E-06
185	-0.10	1.50E-03	2405	-0.10	2.42E-04	4622	0.10	5.90E-08
198	-0.10	2.42E-04	2406	-0.10	5.50E-07	4648	-0.10	5.58E-06
205	0.10	4.38E-04	2410	-0.10	2.87E-03	4664	-0.10	2.15E-03
206	-0.10	5.01E-03	2419	-0.10	1.85E-04	4670	0.10	6.38E-03
217	0.10	4.30E-03	2421	-0.10	1.52E-04	4678	-0.10	7.16E-03
222	0.10	4.23E-08	2424	0.10	8.68E-04	4679	0.10	5.21E-06
225	-0.10	1.56E-03	2425	0.10	3.64E-09	4688	-0.10	4.05E-05
242	-0.10	4.54E-03	2426	0.10	2.06E-09	4691	0.10	1.98E-04
245	-0.10	6.69E-03	2439	-0.10	3.47E-05	4692	0.10	1.21E-04
250	-0.10	2.16E-03	2446	-0.10	9.20E-10	4694	0.10	1.51E-05
261	-0.10	1.16E-04	2447	-0.10	2.85E-05	4697	-0.10	1.55E-03
262	0.10	1.43E-03	2448	-0.10	3.30E-03	4703	-0.20	2.61E-09
277	-0.10	1.81E-03	2451	-0.10	6.14E-03	4705	-0.10	1.89E-03
290	-0.10	4.12E-03	2455	0.10	6.74E-03	4708	-0.10	2.99E-03
297	-0.10	1.68E-03	2456	-0.10	1.34E-03	4723	-0.10	2.73E-06
301	0.10	1.82E-05	2463	-0.20	4.44E-04	4734	0.10	1.16E-04

303	0.10	3.28E-06	2473	0.20	1.29E-05	4737	0.10	3.05E-04
305	-0.10	2.51E-04	2476	-0.10	1.25E-03	4738	0.10	5.80E-05
307	-0.10	8.40E-04	2489	-0.20	1.63E-08	4753	0.10	5.12E-06
308	-0.10	2.85E-03	2502	0.10	2.45E-04	4757	0.10	1.29E-09
309	0.10	2.00E-08	2505	0.10	1.44E-07	4763	0.10	7.36E-07
314	0.10	5.93E-06	2506	-0.10	7.62E-04	4765	0.20	1.33E-16
315	-0.10	1.57E-04	2508	0.10	1.42E-03	4770	-0.10	2.01E-03
316	-0.10	1.89E-03	2510	0.20	1.77E-03	4771	0.10	1.86E-04
317	0.10	7.67E-06	2511	-0.10	1.33E-03	4773	-0.10	5.94E-03
318	0.10	5.10E-03	2518	-0.10	9.92E-03	4775	0.20	1.99E-08
321	-0.20	1.92E-08	2521	-0.10	5.38E-03	4780	-0.10	1.86E-04
336	0.10	2.14E-07	2537	0.10	5.36E-04	4786	0.10	2.04E-05
337	-0.10	8.42E-03	2540	-0.10	7.65E-03	4787	0.20	6.48E-07
343	0.20	6.12E-04	2542	0.10	9.32E-03	4788	0.10	2.02E-05
347	-0.10	6.45E-03	2544	-0.10	4.28E-04	4794	0.10	1.52E-04
352	-0.10	9.77E-03	2550	0.20	2.29E-05	4797	0.10	1.90E-05
354	0.10	4.15E-03	2559	0.20	4.34E-04	4800	0.10	6.50E-04
361	-0.10	7.62E-04	2564	0.10	5.96E-03	4801	0.10	2.51E-05
367	-0.10	2.85E-08	2568	0.10	5.81E-05	4803	0.10	2.31E-03
370	-0.10	2.75E-06	2578	0.10	1.62E-03	4811	-0.10	1.78E-05
380	-0.10	1.35E-04	2582	0.10	2.19E-03	4817	0.10	4.31E-04
381	-0.10	7.15E-03	2587	0.10	5.85E-07	4831	0.10	2.29E-07
385	0.10	3.00E-03	2588	0.10	3.58E-03	4849	0.10	9.87E-03
404	-0.10	8.14E-03	2590	-0.10	3.99E-03	4852	-0.10	1.99E-03
408	0.10	7.11E-03	2594	0.10	1.41E-04	4854	0.10	5.29E-10
412	0.10	2.98E-03	2596	-0.10	3.71E-03	4856	-0.10	1.46E-05
418	-0.10	3.53E-03	2599	0.10	2.40E-04	4859	0.10	2.52E-07
425	0.10	6.94E-08	2604	0.10	3.36E-05	4861	0.10	7.79E-03
429	-0.10	2.90E-07	2612	0.10	6.71E-04	4863	0.10	2.42E-04
433	0.10	9.71E-03	2613	0.10	4.15E-06	4864	0.20	4.15E-12
443	-0.10	7.09E-03	2614	-0.10	1.21E-03	4865	-0.10	8.53E-06
447	0.10	2.85E-05	2615	-0.20	1.77E-12	4866	-0.10	7.65E-06
465	0.10	3.13E-05	2624	0.10	2.48E-04	4868	0.10	6.01E-05
467	0.10	2.20E-07	2648	-0.10	5.82E-03	4869	0.10	6.60E-05
478	-0.10	3.86E-05	2654	-0.10	2.20E-03	4870	0.10	5.77E-03
497	0.10	2.10E-06	2670	0.10	6.41E-03	4871	-0.10	1.42E-05
500	-0.10	9.57E-03	2673	-0.20	1.08E-08	4880	0.20	5.02E-03
503	0.10	8.97E-03	2677	-0.20	2.12E-07	4882	0.10	2.63E-08
509	0.10	1.42E-03	2684	-0.10	6.58E-03	4885	-0.10	5.38E-03
523	0.10	2.56E-03	2688	0.10	9.78E-05	4886	-0.20	5.92E-04
524	-0.10	1.56E-03	2692	-0.10	3.68E-06	4887	0.10	1.88E-03
529	0.10	6.02E-05	2701	-0.10	3.31E-04	4890	0.20	7.27E-05
535	-0.20	4.77E-08	2702	0.10	8.52E-03	4893	-0.10	3.85E-08
546	0.10	5.45E-03	2706	-0.20	2.69E-07	4898	-0.10	5.42E-03
550	-0.10	9.57E-04	2707	0.10	1.28E-04	4899	-0.10	2.98E-03
561	0.10	1.80E-04	2713	0.10	1.97E-04	4901	0.10	1.14E-06
562	-0.10	2.99E-04	2716	0.10	4.57E-03	4914	0.10	5.20E-03
570	0.10	7.19E-03	2722	0.10	2.57E-05	4917	-0.10	3.33E-03

578	-0.10	7.35E-03
583	0.10	8.24E-05
586	0.10	3.05E-07
591	0.10	6.46E-03
592	-0.20	4.52E-11
595	0.10	6.19E-05
599	0.10	1.43E-03
617	0.10	1.44E-09
633	-0.10	1.94E-04
640	-0.10	6.79E-04
649	-0.10	1.30E-03
653	0.10	9.10E-03
658	0.10	3.61E-03
660	-0.20	2.27E-05
661	0.10	1.11E-05
663	-0.10	9.36E-03
668	-0.10	3.86E-03
672	-0.10	9.58E-04
674	0.10	4.84E-06
678	-0.10	3.69E-04
680	-0.10	1.09E-03
683	0.10	7.22E-03
690	0.10	1.73E-03
693	-0.10	2.08E-03
705	-0.10	4.60E-03
707	-0.10	1.45E-03
718	0.10	8.45E-09
724	0.10	2.33E-04
730	0.10	2.51E-05
735	-0.10	1.26E-09
736	0.10	1.19E-03
752	0.10	8.38E-03
764	-0.10	2.72E-04
766	-0.10	9.09E-05
769	0.10	5.47E-04
776	-0.10	8.37E-03
777	0.10	1.32E-03
779	0.10	5.49E-04
794	-0.10	9.54E-04
808	0.10	6.90E-03
812	-0.10	1.10E-05
831	-0.10	9.90E-03
833	0.20	1.72E-04
840	0.10	4.60E-06
844	-0.10	4.55E-06
846	0.10	7.65E-03
847	-0.10	5.16E-04
850	-0.10	4.21E-03

2726	-0.10	2.02E-05
2727	0.10	2.88E-03
2735	-0.10	4.45E-03
2740	-0.10	4.29E-05
2754	-0.10	9.19E-04
2756	0.10	6.14E-04
2760	0.10	1.25E-04
2761	0.10	1.04E-04
2772	0.10	4.98E-06
2787	0.10	5.74E-03
2791	-0.10	2.73E-03
2792	-0.10	4.02E-06
2816	0.10	5.18E-03
2817	0.10	1.68E-05
2828	-0.10	4.62E-03
2830	0.10	2.87E-03
2843	0.10	2.83E-04
2847	0.10	1.41E-03
2850	0.10	2.27E-03
2862	0.10	1.15E-04
2866	0.10	4.26E-04
2872	0.10	2.76E-07
2878	0.10	7.17E-05
2910	0.10	2.68E-03
2916	0.10	6.38E-04
2927	-0.10	8.70E-03
2929	-0.10	4.56E-06
2930	-0.10	1.69E-03
2941	0.10	1.75E-03
2944	-0.20	5.26E-11
2950	-0.10	2.28E-03
2954	0.10	2.24E-06
2960	-0.10	7.81E-07
2961	0.20	4.11E-03
2970	0.10	2.41E-05
2971	0.10	8.14E-06
2973	0.10	7.30E-04
2974	0.10	2.20E-03
2996	0.10	2.68E-03
3001	-0.10	4.83E-03
3003	-0.10	9.56E-03
3004	-0.10	3.48E-03
3011	-0.10	4.19E-04
3018	0.10	5.43E-03
3028	-0.10	2.26E-05
3037	0.10	9.16E-08
3040	0.10	3.79E-04
3042	-0.10	9.22E-03

4920	-0.10	1.14E-03
4927	0.10	9.28E-07
4936	0.10	2.71E-05
4942	-0.10	4.31E-03
4943	-0.10	7.01E-03
4951	-0.10	2.60E-04
4952	-0.10	1.74E-04
4964	0.10	1.38E-06
4966	-0.10	2.21E-04
4978	0.20	2.31E-04
4994	-0.10	5.53E-04
5000	0.10	3.97E-04
5015	0.10	7.22E-03
5026	0.10	4.66E-05
5033	-0.10	7.77E-03
5037	0.10	8.75E-09
5042	0.10	1.83E-03
5043	0.10	2.20E-03
5044	0.20	2.52E-08
5053	0.10	1.37E-03
5057	0.10	5.75E-03
5076	-0.10	9.50E-06
5095	0.10	2.10E-04
5098	-0.10	3.67E-06
5099	-0.10	4.63E-03
5101	-0.10	6.60E-04
5109	-0.10	1.92E-04
5115	-0.20	4.74E-08
5121	-0.10	5.75E-06
5134	0.10	2.70E-07
5135	-0.10	2.59E-06
5141	0.10	5.64E-06
5149	0.10	1.53E-07
5176	0.10	2.40E-03
5178	-0.10	1.62E-04
5198	0.10	2.96E-04
5206	0.10	4.05E-03
5212	-0.10	4.75E-08
5218	0.20	2.15E-04
5230	-0.10	1.65E-06
5249	0.10	7.41E-03
5258	0.20	5.32E-03
5261	0.10	2.29E-06
5272	-0.10	2.87E-03
5279	0.10	5.23E-07
5283	-0.10	4.55E-05
5293	0.10	2.37E-03
5294	0.10	7.02E-03

856	-0.10	8.33E-05
858	0.10	2.61E-04
874	-0.20	5.46E-04
883	-0.10	2.29E-05
884	0.10	3.21E-03
885	0.10	7.73E-05
890	0.10	1.89E-03
893	0.10	1.98E-04
894	0.20	4.04E-04
913	-0.10	7.16E-03
915	-0.20	2.87E-07
916	-0.10	3.02E-03
925	0.10	3.88E-03
932	-0.10	2.62E-04
934	0.10	3.60E-04
937	0.20	2.10E-04
944	0.10	1.60E-05
948	-0.20	3.43E-10
949	0.10	2.75E-07
950	0.10	9.42E-04
951	0.10	7.14E-03
954	-0.10	2.64E-11
959	-0.10	6.13E-04
961	-0.20	1.14E-03
962	0.10	6.49E-03
977	-0.10	3.67E-04
979	-0.10	2.60E-03
999	0.10	2.05E-03
1001	-0.10	3.01E-04
1006	0.10	4.87E-03
1009	0.10	1.23E-03
1010	0.10	3.12E-03
1015	-0.10	2.69E-03
1020	-0.10	3.73E-03
1027	-0.10	6.79E-03
1034	-0.10	7.15E-03
1043	0.10	1.62E-06
1044	0.10	4.96E-05
1049	0.10	1.88E-06
1050	0.10	1.03E-03
1056	-0.10	2.98E-08
1065	0.10	2.26E-05
1071	0.10	2.53E-05
1078	-0.10	8.48E-04
1084	-0.10	4.83E-04
1087	0.10	2.30E-09
1089	0.10	4.35E-05
1097	0.10	1.53E-05

3044	0.10	9.00E-06
3068	-0.10	1.08E-04
3104	0.10	5.62E-03
3113	-0.10	5.85E-05
3115	-0.10	7.02E-07
3118	0.10	4.35E-03
3120	-0.10	9.66E-04
3124	0.10	2.94E-03
3125	0.10	3.53E-04
3126	-0.10	8.63E-03
3131	-0.10	3.51E-08
3133	-0.10	3.11E-09
3139	0.10	6.67E-03
3149	-0.10	6.18E-05
3152	-0.10	7.50E-03
3158	0.10	2.02E-06
3165	0.10	5.73E-05
3166	-0.10	1.83E-03
3167	0.20	7.63E-10
3170	-0.10	3.66E-03
3176	-0.10	1.09E-04
3182	0.10	1.44E-09
3189	0.10	4.78E-05
3199	0.10	1.75E-05
3205	0.10	6.01E-03
3207	-0.10	1.29E-05
3210	-0.10	1.37E-04
3213	0.10	4.26E-03
3218	0.10	8.24E-05
3220	-0.10	3.09E-03
3234	0.10	1.07E-06
3237	0.10	3.91E-03
3248	0.20	7.59E-07
3250	0.10	7.69E-03
3259	-0.10	8.61E-04
3269	0.10	7.56E-03
3270	-0.10	6.53E-05
3275	-0.10	9.21E-05
3286	-0.10	1.06E-03
3288	-0.10	8.60E-03
3302	-0.10	1.77E-04
3303	-0.10	1.83E-04
3309	-0.10	7.23E-03
3317	-0.10	5.70E-08
3318	-0.20	3.36E-09
3321	0.10	7.81E-04
3322	0.10	2.28E-03
3327	0.10	8.82E-03

5295	0.10	1.22E-04
5303	-0.10	7.58E-03
5308	0.10	1.90E-04
5315	-0.10	2.15E-04
5320	-0.20	1.09E-10
5322	0.20	1.73E-05
5323	0.20	1.43E-12
5326	0.10	1.14E-03
5336	0.10	1.87E-04
5345	-0.10	2.93E-03
5351	-0.10	8.01E-03
5352	0.10	5.34E-04
5355	0.10	8.55E-03
5360	-0.10	8.80E-03
5365	-0.10	1.51E-03
5367	0.10	7.55E-08
5368	-0.10	1.01E-03
5379	0.10	6.17E-04
5381	-0.10	1.94E-05
5397	-0.10	2.56E-04
5399	0.10	2.44E-06
5401	-0.10	1.62E-06
5402	0.00	4.37E-03
5406	0.10	8.63E-03
5407	0.10	2.95E-03
5411	-0.10	3.40E-03
5414	0.10	3.13E-06
5417	0.10	4.05E-06
5422	-0.10	7.46E-03
5432	-0.10	6.82E-04
5434	0.10	9.34E-03
5437	0.10	4.34E-03
5446	0.10	8.68E-03
5451	0.10	9.43E-03
5453	0.10	1.83E-04
5461	-0.10	6.22E-04
5462	0.10	2.62E-04
5465	-0.10	5.76E-06
5466	-0.10	9.94E-03
5472	-0.10	7.46E-06
5476	-0.10	1.05E-04
5481	-0.10	4.68E-06
5491	-0.10	2.77E-03
5493	0.10	3.38E-03
5495	0.10	9.87E-03
5501	-0.10	2.47E-03
5502	-0.10	1.74E-03
5505	0.10	2.42E-03

1098	0.10	9.28E-03
1099	0.10	5.47E-03
1107	0.10	7.53E-03
1110	0.20	4.55E-12
1121	0.10	2.66E-03
1123	-0.10	8.44E-03
1138	0.10	3.36E-03
1140	-0.10	2.15E-03
1145	-0.10	1.77E-03
1147	-0.10	1.36E-04
1149	0.10	2.05E-08
1157	-0.10	8.01E-03
1161	-0.10	1.02E-03
1165	0.10	9.01E-05
1167	0.10	4.34E-06
1172	-0.10	4.87E-03
1173	0.10	1.47E-03
1176	-0.10	8.60E-04
1183	-0.10	5.16E-03
1185	0.10	2.28E-03
1187	-0.10	1.06E-03
1188	-0.10	1.12E-03
1193	-0.10	4.08E-05
1194	-0.10	2.12E-04
1214	0.10	1.93E-05
1218	0.10	5.16E-04
1229	0.10	6.61E-04
1230	0.10	7.00E-03
1238	-0.10	3.69E-03
1252	0.10	2.09E-05
1255	-0.10	3.90E-03
1270	0.10	1.89E-03
1277	0.20	9.84E-04
1283	-0.10	2.68E-05
1286	-0.10	1.53E-04
1287	0.20	4.01E-10
1291	-0.10	9.61E-05
1293	-0.20	4.06E-04
1301	0.10	1.03E-04
1308	-0.10	3.08E-03
1309	-0.20	8.69E-08
1336	0.10	1.84E-03
1339	0.10	4.25E-07
1340	-0.20	6.05E-04
1341	0.10	2.48E-04
1346	-0.10	7.19E-04
1347	-0.10	4.27E-04
1348	0.10	4.19E-05
1349	0.10	2.38E-03

3328	0.10	2.47E-03
3333	0.10	2.97E-04
3338	-0.10	2.51E-03
3340	-0.10	3.71E-03
3357	-0.10	1.59E-04
3358	0.10	4.65E-05
3360	-0.10	1.06E-03
3361	-0.10	7.62E-03
3369	-0.10	3.76E-04
3382	0.10	3.92E-03
3385	-0.10	6.61E-04
3391	-0.10	9.04E-03
3392	-0.10	3.11E-04
3394	-0.10	9.61E-03
3395	-0.10	6.73E-03
3396	0.10	2.81E-03
3404	0.10	5.97E-04
3408	0.10	8.08E-04
3411	-0.10	8.16E-06
3427	-0.10	2.57E-03
3433	-0.20	7.01E-07
3455	0.10	4.81E-04
3463	-0.10	8.39E-04
3465	-0.10	8.80E-03
3466	-0.10	8.68E-06
3467	-0.10	2.77E-04
3468	-0.10	2.75E-03
3483	0.10	6.10E-04
3485	0.10	2.25E-04
3487	-0.10	1.08E-08
3489	-0.10	2.22E-05
3491	-0.10	7.93E-10
3498	-0.10	4.19E-05
3502	0.20	6.77E-03
3506	0.10	4.74E-05
3510	0.10	3.19E-04
3514	0.10	6.69E-03
3521	0.10	2.99E-04
3523	-0.10	4.85E-04
3531	-0.10	5.86E-03
3541	-0.10	4.10E-05
3548	0.20	2.07E-05
3558	0.10	2.27E-10
3561	0.10	3.37E-03
3570	0.10	6.23E-04
3579	-0.10	7.10E-06
3583	-0.10	6.60E-03
3590	-0.10	1.80E-07
3593	0.10	5.75E-05

5511	0.10	1.32E-03
5520	-0.10	7.69E-04
5526	-0.10	1.12E-03
5540	-0.10	1.09E-03
5545	-0.10	1.80E-03
5548	0.20	5.06E-13
5555	0.10	1.97E-03
5575	-0.10	1.47E-06
5578	-0.10	5.96E-05
5583	0.20	1.35E-06
5589	-0.10	5.03E-03
5593	0.10	1.97E-05
5602	0.10	8.31E-05
5608	0.10	1.34E-06
5611	0.10	4.46E-04
5613	0.10	6.71E-03
5616	0.10	4.46E-04
5623	-0.10	8.27E-04
5626	-0.10	1.21E-03
5634	0.10	3.23E-09
5635	0.10	2.48E-09
5643	0.10	1.65E-04
5662	0.00	9.92E-03
5663	-0.10	1.43E-04
5670	-0.10	1.09E-03
5677	-0.10	4.72E-08
5678	-0.10	7.74E-08
5684	-0.20	6.60E-04
5687	-0.10	6.80E-03
5691	-0.10	2.35E-05
5693	0.10	2.75E-07
5705	0.10	4.05E-04
5711	0.10	4.65E-03
5713	-0.10	4.02E-03
5714	-0.10	1.24E-03
5715	0.20	7.58E-07
5729	-0.10	3.35E-03
5732	0.10	4.18E-03
5746	-0.10	4.27E-04
5749	0.10	8.35E-03
5752	-0.10	1.67E-04
5754	-0.10	1.41E-03
5763	-0.20	2.43E-03
5765	0.10	5.19E-03
5774	0.20	4.41E-04
5780	-0.10	4.23E-03
5781	-0.10	4.47E-03
5784	0.10	1.63E-04
5785	0.20	4.81E-05

1359	-0.10	3.00E-04
1367	0.10	5.38E-03
1375	-0.10	9.79E-03
1380	0.10	3.11E-04
1384	-0.10	8.29E-03
1385	0.10	8.05E-08
1390	0.10	9.25E-04
1402	-0.10	3.89E-03
1406	0.10	7.89E-05
1408	-0.10	1.68E-03
1412	0.10	2.45E-03
1415	0.10	1.74E-07
1421	-0.10	5.19E-04
1431	-0.10	1.54E-04
1434	-0.10	4.56E-04
1435	0.10	1.43E-04
1439	-0.10	7.20E-05
1459	-0.10	4.18E-04
1466	-0.10	5.07E-04
1468	-0.10	2.18E-03
1478	-0.10	1.32E-07
1480	-0.20	4.67E-04
1489	-0.10	1.65E-04
1490	0.10	1.00E-06
1491	-0.10	1.00E-05
1498	0.10	4.94E-06
1500	-0.20	7.20E-09
1501	0.10	3.81E-04
1504	-0.10	3.94E-03
1523	0.10	8.80E-04
1525	-0.10	1.21E-03
1529	0.10	9.39E-04
1538	0.10	9.46E-03
1541	-0.10	2.61E-05
1571	0.10	2.89E-07
1577	-0.10	4.19E-03
1581	-0.10	3.23E-05
1597	0.10	1.33E-03
1599	0.10	8.03E-03
1601	-0.10	2.88E-03
1608	-0.10	9.80E-04
1614	-0.10	5.66E-07
1616	-0.10	4.72E-05
1617	0.10	3.38E-03
1620	0.10	2.01E-07
1623	0.10	2.20E-04
1652	-0.10	2.26E-04
1653	-0.10	6.88E-05

3602	-0.10	5.46E-03
3604	-0.10	3.62E-03
3608	-0.10	4.36E-03
3619	0.10	3.38E-05
3626	0.10	7.35E-04
3629	-0.10	3.87E-03
3630	0.10	2.73E-04
3631	0.10	5.69E-03
3653	-0.10	3.38E-04
3656	0.10	3.91E-03
3661	0.10	9.86E-04
3668	-0.10	4.10E-03
3676	0.10	6.79E-07
3683	0.10	1.86E-03
3695	0.10	1.86E-03
3699	-0.10	4.78E-03
3708	-0.10	4.73E-03
3714	0.10	1.83E-03
3715	-0.20	1.35E-08
3716	-0.20	5.79E-09
3720	-0.10	4.14E-03
3726	-0.10	1.59E-08
3729	0.10	3.36E-06
3732	-0.10	4.47E-06
3737	0.10	1.81E-03
3739	0.10	4.35E-04
3740	0.10	3.12E-05
3745	-0.10	6.76E-06
3752	0.10	5.35E-04
3760	-0.10	1.56E-04
3762	0.10	2.10E-03
3763	-0.20	2.61E-05
3776	0.10	3.96E-08
3792	0.10	2.02E-03
3810	0.10	3.14E-03
3839	-0.10	6.69E-08
3840	-0.10	1.85E-06
3846	0.10	9.30E-03
3847	0.10	1.31E-05
3855	-0.10	9.83E-04
3856	-0.10	4.90E-04
3864	0.10	1.02E-08
3871	0.10	1.30E-03
3873	-0.10	1.52E-03
3877	-0.10	1.52E-03
3878	0.10	4.18E-06
3892	-0.10	1.96E-03
3894	-0.10	1.66E-03

5791	0.10	1.44E-05
5796	0.10	3.05E-03
5806	0.10	3.40E-04
5807	-0.10	5.02E-06
5808	0.10	7.93E-03
5813	0.10	3.03E-04
5821	0.10	9.38E-08
5838	0.10	2.19E-03
5841	-0.10	8.32E-07
5845	0.10	3.07E-04
5846	-0.10	3.38E-05
5850	0.10	2.29E-03
5854	-0.20	1.38E-04
5859	0.10	3.23E-03
5860	0.10	3.33E-03
5871	-0.10	3.03E-04
5872	-0.10	1.05E-04
5876	-0.10	4.17E-03
5877	-0.10	4.66E-03
5883	0.10	5.30E-06
5884	0.10	3.09E-03
5887	0.20	2.83E-05
5895	-0.20	7.34E-13
5897	0.10	9.56E-03
5900	0.20	1.28E-03
5908	0.10	3.74E-05
5916	0.10	8.37E-03
5918	0.10	2.96E-03
5923	-0.10	1.62E-05
5925	0.10	4.29E-03
5930	0.10	9.00E-06
5937	-0.10	2.14E-06
5946	0.10	7.21E-03
5951	0.10	2.82E-06
5953	0.10	5.48E-03
5960	-0.10	7.49E-03
5968	0.10	2.74E-04
5970	-0.10	3.63E-08
5971	-0.10	8.76E-10
5982	-0.10	1.49E-04
5986	-0.10	3.01E-05
5990	0.10	3.99E-04
5992	0.00	5.68E-03
5994	0.10	5.27E-03
5995	0.10	6.01E-03
5996	0.10	4.96E-03
5997	0.10	4.26E-03
6008	0.10	9.82E-05

1662	0.10	8.63E-03
1668	-0.10	9.67E-03
1684	-0.10	5.39E-05
1691	-0.10	3.04E-03
1696	0.10	1.42E-03
1703	-0.10	8.17E-03
1710	0.10	3.44E-04
1714	-0.20	1.64E-04
1717	0.10	1.20E-03
1718	-0.10	2.15E-04
1722	-0.10	7.91E-03
1729	0.10	3.94E-09
1744	0.10	1.55E-04
1745	0.10	5.18E-05
1747	-0.10	3.52E-05
1757	-0.10	2.37E-05
1758	-0.20	6.58E-04
1760	0.10	4.49E-06
1766	0.10	1.22E-04
1776	0.10	9.34E-05
1777	0.10	3.65E-03
1779	-0.10	7.30E-07
1781	-0.10	5.23E-03
1782	-0.10	5.22E-03
1784	0.10	3.44E-03
1788	0.10	6.32E-03
1789	0.10	9.56E-03
1790	0.10	1.35E-09
1795	0.10	1.60E-03
1805	0.10	4.08E-03
1813	-0.10	8.26E-03
1816	0.10	5.46E-03
1819	-0.10	7.65E-04
1820	0.10	8.86E-06
1827	0.10	5.63E-06
1830	0.10	6.04E-06
1836	0.10	1.31E-04
1846	0.10	1.60E-03
1850	0.10	3.12E-03
1853	0.10	9.20E-03
1859	0.10	7.52E-07
1863	0.10	4.67E-04
1871	0.10	4.70E-06
1879	0.10	6.22E-05
1886	0.10	1.40E-03
1887	0.10	2.05E-03
1890	-0.10	4.93E-04
1892	0.10	4.92E-04

3904	0.10	8.60E-08
3907	-0.10	2.59E-04
3910	0.10	9.17E-03
3912	-0.10	3.20E-03
3914	0.10	4.21E-05
3915	-0.10	4.47E-06
3918	0.10	2.29E-05
3926	-0.10	3.54E-04
3933	0.10	8.60E-09
3945	0.10	1.65E-03
3946	-0.10	1.25E-04
3953	-0.10	7.44E-04
3961	-0.10	9.73E-05
3969	0.10	5.58E-09
3979	-0.20	9.36E-06
3980	-0.10	7.72E-06
3981	-0.10	1.26E-05
3983	-0.10	3.66E-06
3987	0.10	5.61E-03
4005	0.10	1.86E-03
4006	0.10	1.14E-04
4007	0.10	1.21E-04
4014	0.10	6.99E-03
4016	-0.10	4.50E-04
4021	0.10	2.92E-03
4023	0.10	1.93E-03
4027	-0.10	6.76E-04
4028	0.20	1.59E-07
4030	0.10	3.22E-06
4040	0.10	3.89E-03
4042	0.10	4.53E-03
4044	0.10	1.27E-05
4045	-0.10	1.91E-06
4047	-0.10	6.14E-03
4051	0.10	1.15E-04
4052	0.10	5.04E-05
4057	-0.10	3.40E-04
4058	-0.10	1.21E-08
4060	-0.10	9.97E-04
4061	-0.10	1.05E-03
4075	0.10	7.98E-03
4082	0.10	4.18E-03
4088	0.10	8.93E-04
4090	-0.10	7.04E-03
4091	0.20	5.14E-04
4099	0.10	7.82E-07
4103	-0.10	2.12E-03
4106	0.10	1.80E-07

6015	0.10	4.91E-03
6024	0.10	9.74E-07
6025	0.20	4.71E-04
6040	-0.10	2.57E-08
6057	0.10	3.76E-03
6058	-0.10	6.44E-06
6066	-0.10	6.52E-07
6068	-0.10	2.49E-05
6077	0.10	4.61E-03
6078	0.10	4.61E-03
6091	-0.20	2.14E-06
6098	-0.10	3.02E-03
6100	-0.10	3.65E-03
6101	-0.10	3.76E-03
6102	0.10	2.64E-04
6103	0.10	1.07E-04
6104	-0.10	9.71E-03
6105	0.10	1.35E-04
6111	0.20	2.61E-08
6112	0.10	3.48E-07
6117	0.10	3.47E-09
6124	-0.10	1.69E-05
6131	0.10	2.02E-03
6134	0.10	7.96E-03
6141	-0.10	3.23E-03
6143	0.10	5.98E-03
6145	0.10	2.15E-07
6148	0.20	7.49E-04
6154	0.10	2.18E-04
6157	0.10	2.07E-03
6172	0.10	6.75E-04
6173	0.10	9.99E-03
6175	-0.10	2.15E-04
6176	-0.10	1.01E-04
6183	-0.20	4.60E-04
6184	-0.10	1.24E-05
6186	-0.10	3.87E-05
6187	-0.10	1.04E-03
6192	-0.10	5.12E-03
6195	0.10	1.12E-05
6196	0.10	8.49E-04
6197	-0.20	3.10E-07
6198	-0.20	2.92E-07
6200	-0.20	2.18E-08
6203	0.10	1.03E-06
6204	0.10	9.38E-04
6206	-0.10	5.09E-03
6212	-0.20	8.60E-07

1894	0.10	4.00E-04
1907	-0.10	4.52E-03
1920	-0.10	1.84E-03
1922	0.10	1.75E-03
1924	-0.10	4.03E-03
1925	0.10	6.82E-03
1927	0.10	3.34E-04
1928	0.10	5.16E-07
1938	0.10	2.41E-03
1939	-0.10	1.01E-03
1949	-0.10	7.36E-04
1956	-0.10	3.70E-06
1974	0.10	3.10E-08
1981	-0.10	1.32E-05
1982	-0.10	4.94E-07
1985	0.10	1.06E-06
1988	0.10	6.95E-03
1993	-0.20	1.14E-10
1994	0.10	3.60E-04
2003	-0.10	1.60E-06
2008	-0.10	6.78E-04
2009	0.10	6.54E-03
2013	-0.10	1.71E-08
2020	0.10	3.23E-05
2026	0.10	1.89E-04
2035	0.10	1.65E-06
2037	0.10	4.25E-08
2040	-0.10	1.72E-04
2042	-0.10	2.09E-03
2043	0.10	5.90E-03
2049	-0.10	1.44E-05
2053	-0.10	6.60E-03
2056	0.10	7.79E-04
2065	0.10	4.81E-03
2078	-0.20	1.21E-13
2080	-0.10	3.66E-03
2094	0.10	9.92E-03
2096	0.10	6.50E-07
2107	0.10	1.61E-04
2108	0.10	6.16E-04
2110	-0.10	6.82E-03
2112	0.10	1.29E-03
2121	-0.10	5.57E-03
2125	0.20	1.54E-05
2132	0.20	6.30E-04
2136	0.10	8.99E-03
2140	0.10	1.23E-03
2144	-0.10	1.45E-06

4107	0.10	6.95E-05
4121	0.10	4.16E-03
4122	-0.10	4.57E-03
4128	-0.10	6.88E-03
4141	-0.10	3.67E-04
4149	-0.10	2.58E-03
4150	-0.20	3.00E-14
4158	0.10	1.91E-05
4162	0.10	7.17E-05
4170	-0.10	3.26E-03
4194	0.10	5.74E-09
4196	0.10	3.51E-05
4199	0.10	1.08E-04
4210	0.10	1.15E-04
4212	0.10	6.30E-03
4214	0.20	1.04E-04
4217	-0.10	4.21E-04
4230	-0.10	2.49E-03
4231	-0.10	6.59E-05
4232	-0.10	4.71E-03
4242	-0.10	2.27E-04
4244	0.10	4.67E-04
4245	0.10	1.71E-03
4254	0.20	1.15E-05
4277	0.10	3.99E-07
4278	0.10	5.23E-03
4282	-0.10	6.76E-03
4285	0.10	2.10E-03
4307	-0.10	8.62E-05
4313	-0.10	4.22E-05
4315	0.10	3.27E-04
4321	0.10	8.41E-05
4332	0.10	3.04E-03
4341	-0.10	7.92E-05
4343	-0.10	9.69E-03
4351	-0.10	6.14E-08
4357	0.10	3.13E-03
4372	0.10	8.67E-03
4377	-0.10	8.29E-03
4386	0.10	9.18E-04
4396	-0.10	4.48E-10
4398	0.10	2.15E-06
4400	0.10	9.33E-03
4401	0.10	3.02E-03
4404	0.10	9.46E-03
4405	0.20	1.08E-06
4411	0.10	1.14E-04
4412	0.10	5.36E-05

6223	0.10	3.56E-03
6224	0.10	3.85E-03
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0.12				0.15		
0.08				-0.08		
-0.10				0.08		
0.15				-0.19		
-0.09				0.09		
-0.13				0.07		
-0.11				0.12		
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-0.17				0.10		
-0.12				-0.16		
0.16				0.08		
0.08				0.17		
0.14				0.07		
0.15				-0.11		
0.10				0.09		
-0.12				-0.11		
-0.10				0.11		
-0.12				0.11		
0.14				-0.12		
0.16				0.10		
-0.17				-0.27		

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				-0.14		0.18
				-0.18		0.11
				-0.08		-0.21
				0.11		-0.23
				-0.14		0.07
				-0.29		0.08
				-0.18		0.08
				-0.13		-0.12
				-0.08		0.24
				-0.16		-0.10
				-0.14		-0.21
				-0.14		-0.17
				-0.18		0.20
				0.17		0.11
				-0.12		0.13
				0.07		0.08
				-0.13		-0.10
				0.13		0.09
				0.12		0.11
				-0.18		0.07
				-0.14		-0.11
				0.14		0.11
				-0.08		-0.07
				0.11		-0.10
				0.12		0.08
				-0.08		-0.11
				-0.07		-0.12
				-0.21		-0.15
				-0.14		-0.19
				-0.19		-0.08
				-0.15		0.10
				0.12		-0.17
				-0.14		0.16
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				0.10		-0.12
				-0.14		0.13
				0.10		-0.10
				0.09		-0.08
				0.07		0.17
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				-0.10		-0.16
				-0.09		0.21
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				-0.14		-0.11
				0.09		-0.08
				-0.19		0.10
				-0.16		-0.19

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0.10				-0.16	
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0.09				-0.16	
0.09				-0.18	
0.14				0.16	
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0.25				-0.13	
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0.18				-0.08	
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0.14				0.14		

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TABLE 28 - GENETIC MARKERS FOR REAR ATTACHMENT HEIGHT

3	0.20	3.55E-09	2391	-0.10	2.14E-03	4789	-0.10	5.41E-04
6	-0.10	1.14E-03	2393	-0.20	1.59E-10	4796	-0.10	6.03E-03
8	-0.10	1.57E-03	2394	-0.10	5.41E-04	4800	-0.30	3.63E-07
16	0.20	1.10E-07	2398	0.10	4.24E-08	4807	0.20	2.87E-07
22	-0.10	3.24E-05	2400	0.20	2.64E-14	4813	-0.20	1.50E-05
24	-0.10	3.71E-06	2405	0.10	1.02E-03	4821	-0.20	3.41E-06
35	-0.10	5.44E-07	2406	0.20	4.67E-09	4827	0.20	1.68E-08
36	-0.30	4.14E-09	2408	0.10	4.26E-07	4831	-0.10	3.39E-03
39	-0.60	1.91E-09	2413	0.20	7.78E-10	4834	-0.40	4.03E-07
46	-0.20	1.94E-08	2414	0.20	1.24E-09	4835	0.20	8.36E-05
52	-0.20	1.39E-12	2418	-0.10	7.59E-03	4849	-0.30	1.20E-15
54	0.10	1.60E-05	2422	-0.10	7.24E-03	4853	0.10	8.13E-04
59	-0.30	4.26E-03	2423	0.10	4.88E-03	4854	-0.10	2.94E-05
63	-0.10	7.79E-04	2424	-0.10	9.55E-03	4857	-0.20	3.06E-06
66	-0.20	1.77E-08	2430	-0.20	6.02E-04	4859	-0.10	5.14E-03
67	0.10	9.77E-06	2432	0.10	4.52E-04	4860	0.10	6.46E-03
71	-0.30	2.69E-12	2437	-0.30	2.38E-16	4864	-0.20	3.84E-12
75	-0.10	8.67E-03	2446	0.10	1.20E-04	4871	-0.10	4.23E-03
77	-0.10	1.08E-03	2452	0.10	1.64E-03	4873	0.10	1.87E-03
99	0.30	2.71E-22	2453	-0.10	3.07E-07	4880	-0.30	5.56E-04
101	-0.30	1.91E-26	2463	0.10	6.68E-03	4882	-0.10	7.95E-03
106	0.20	2.24E-08	2465	-0.30	1.01E-27	4885	0.20	2.87E-13
120	-0.20	5.47E-05	2466	-0.30	6.50E-27	4886	0.10	3.54E-03
122	-0.20	3.23E-04	2470	-0.30	9.11E-12	4887	-0.20	8.12E-05
126	0.20	8.95E-04	2471	0.10	1.33E-06	4890	-0.20	3.37E-03
131	0.20	1.45E-18	2472	-0.10	4.79E-05	4893	0.10	6.10E-05
150	-0.10	1.66E-03	2476	0.10	5.69E-07	4894	-0.10	2.32E-03
152	0.10	7.44E-04	2477	-0.20	3.36E-04	4896	0.10	4.37E-04
153	-0.10	2.06E-04	2482	-0.10	6.75E-05	4898	0.10	6.61E-11
154	-0.20	6.38E-05	2484	0.10	1.88E-03	4905	-0.20	1.68E-08
156	0.10	5.81E-03	2485	0.10	1.59E-03	4909	-0.10	6.44E-04
163	0.20	1.46E-06	2486	0.10	2.12E-06	4917	0.10	1.74E-04
168	0.10	1.83E-06	2489	0.10	1.67E-04	4920	0.10	3.21E-03
171	0.10	3.21E-04	2490	-0.20	1.94E-03	4934	0.10	1.75E-03
174	0.20	1.57E-05	2491	0.20	2.24E-13	4938	0.10	1.22E-05

176	-0.20	4.00E-09	2495	0.10	7.80E-08	4941	0.20	3.80E-04
181	0.10	3.10E-08	2497	0.10	7.79E-03	4946	-0.10	7.45E-04
191	-0.20	1.73E-15	2501	-0.10	3.22E-07	4951	0.10	3.06E-04
193	-0.20	7.20E-04	2508	-0.20	1.08E-08	4953	0.10	1.73E-03
194	0.10	3.71E-03	2514	-0.10	2.28E-06	4958	0.10	2.59E-04
198	-0.10	1.10E-03	2516	-0.10	1.24E-03	4961	0.10	6.52E-03
203	-0.10	5.60E-03	2517	0.10	6.01E-04	4964	-0.10	2.28E-03
209	0.10	2.50E-08	2518	0.10	7.90E-05	4965	-0.10	8.25E-03
215	-0.10	9.77E-03	2522	-0.10	2.80E-04	4970	-0.10	9.26E-05
217	0.10	5.39E-03	2523	-0.10	7.40E-05	4973	0.10	1.40E-06
219	0.20	1.15E-08	2532	-0.20	2.29E-07	4974	0.10	5.90E-04
220	-0.10	4.68E-05	2534	0.10	3.66E-03	4976	-0.20	5.11E-06
222	-0.20	2.63E-07	2535	0.10	1.64E-04	4977	-0.20	8.21E-05
224	0.20	5.13E-04	2540	0.10	5.03E-04	4980	0.10	5.51E-04
231	-0.30	4.75E-13	2543	0.20	1.59E-04	4982	-0.10	8.50E-04
235	-0.10	5.95E-03	2545	-0.10	2.28E-03	4985	-0.10	3.22E-03
246	-0.20	2.80E-04	2547	-0.10	3.38E-03	4986	-0.10	6.94E-03
249	-0.20	6.24E-08	2549	-0.30	1.96E-03	4987	-0.30	1.01E-03
257	0.20	5.01E-06	2550	-0.20	1.17E-03	4991	-0.10	4.87E-04
263	0.10	6.09E-03	2566	0.10	7.57E-03	4996	-0.30	3.58E-09
265	-0.20	2.16E-07	2571	-0.20	2.44E-08	5003	-0.30	9.05E-06
270	0.10	6.63E-04	2575	0.20	4.73E-03	5010	-0.20	1.05E-06
272	-0.20	6.77E-08	2577	-0.20	4.26E-04	5013	0.10	9.10E-04
276	-0.30	7.99E-04	2578	-0.20	3.58E-07	5016	-0.10	2.96E-06
282	0.20	6.07E-09	2582	-0.10	6.41E-03	5025	0.10	1.65E-06
283	-0.10	4.79E-03	2590	0.20	1.57E-03	5030	-0.10	2.82E-03
405								
284	-0.10	4.77E-03	2594	0.10	5.18E-03	5036	0.10	4.63E-04
285	-0.10	1.80E-03	2595	0.20	4.45E-13	5037	-0.10	2.83E-05
291	-0.10	1.90E-03	2607	-0.10	6.87E-03	5038	-0.20	7.42E-03
298	0.10	6.38E-05	2608	0.10	7.38E-04	5051	-0.10	6.69E-03
303	0.10	1.28E-03	2611	-0.10	9.08E-03	5057	-0.30	1.97E-10
305	0.20	1.50E-08	2613	-0.20	3.38E-08	5060	0.10	2.16E-04
307	0.20	5.08E-10	2617	-0.10	2.40E-03	5061	-0.30	1.19E-07
309	0.10	4.02E-04	2620	0.10	1.19E-07	5063	-0.30	3.25E-09
312	-0.20	3.14E-08	2630	0.10	6.29E-03	5066	-0.10	1.18E-03
315	0.20	5.23E-11	2633	-0.30	1.26E-07	5069	0.10	1.47E-04
317	-0.10	8.56E-03	2636	0.10	2.58E-03	5070	0.20	5.61E-09

318	-0.10	2.03E-05	2640	0.20	1.58E-04	5074	-0.20	1.59E-03
320	-0.10	1.88E-03	2646	0.10	2.24E-04	5078	-0.10	1.49E-05
323	-0.10	7.53E-03	2647	0.10	1.19E-04	5079	0.10	2.51E-03
326	0.10	4.76E-03	2649	-0.10	2.58E-04	5086	0.20	3.91E-17
327	-0.10	3.47E-03	2657	0.10	2.34E-03	5088	0.10	1.00E-03
328	-0.20	5.71E-04	2668	-0.20	1.10E-12	5093	-0.10	4.05E-05
330	-0.30	4.38E-09	2670	-0.20	1.61E-04	5094	0.20	6.08E-07
331	-0.10	5.68E-03	2688	-0.20	8.92E-12	5095	-0.10	2.13E-03
333	0.20	3.69E-17	2691	0.20	9.32E-04	5102	-0.20	1.80E-03
335	-0.10	2.68E-04	2692	0.10	4.87E-04	5109	0.20	2.32E-07
336	-0.10	3.41E-05	2693	0.10	4.39E-05	5111	-0.20	6.07E-03
337	0.10	5.29E-06	2696	0.10	1.41E-07	5112	0.10	5.35E-04
343	-0.40	3.86E-06	2705	-0.10	4.88E-04	5114	0.20	1.34E-05
345	-0.10	1.51E-03	2706	0.10	1.44E-03	5115	-0.10	9.29E-03
349	-0.10	9.87E-03	2707	-0.20	2.00E-09	5116	-0.20	6.86E-08
354	-0.20	2.38E-05	2712	-0.10	4.14E-05	5117	0.10	4.30E-03
359	0.20	2.29E-09	2714	-0.20	7.77E-04	5120	-0.20	3.71E-03
363	-0.20	7.25E-03	2715	0.10	6.62E-03	5121	0.10	1.58E-03
364	-0.10	8.28E-03	2722	-0.10	1.79E-06	5124	-0.10	3.77E-06
370	0.10	5.68E-04	2727	0.20	3.93E-09	5125	0.10	8.22E-06
372	-0.10	5.96E-03	2730	-0.30	2.22E-05	5132	0.10	5.39E-04
373	0.20	2.12E-03	2731	-0.30	2.41E-05	5133	-0.20	1.41E-04
376	-0.30	7.94E-08	2735	0.20	1.69E-08	5134	-0.30	8.14E-30
377	-0.20	8.21E-04	2736	-0.10	7.89E-04	5138	-0.10	9.43E-03
381	0.10	2.10E-04	2742	-0.20	5.75E-05	5142	0.10	9.42E-03
382	0.10	2.16E-05	2743	0.20	1.39E-05	5145	-0.10	9.89E-03
386	-0.30	3.10E-06	2746	0.10	4.64E-04	5148	-0.10	2.49E-03
391	-0.10	3.67E-04	2752	-0.30	2.13E-08	5152	0.10	1.30E-04
393	0.20	6.12E-07	2754	0.20	1.30E-14	5155	-0.40	1.30E-04
394	-0.20	6.90E-13	2756	-0.20	2.35E-17	5165	0.10	7.72E-04
395	-0.10	5.78E-04	2760	-0.10	7.47E-06	5172	-0.10	3.05E-07
396	-0.20	1.22E-08	2761	-0.10	7.68E-06	5175	-0.20	1.25E-03
397	0.20	2.12E-08	2772	-0.20	1.42E-06	5176	-0.30	9.19E-06
404	0.10	1.14E-03	2773	-0.20	3.71E-05	5179	-0.30	2.36E-04
407	-0.10	4.82E-04	2779	0.10	7.47E-04	5186	0.10	4.17E-03
408	-0.30	3.12E-11	2781	0.20	1.60E-06	5204	-0.20	1.55E-06
410	-0.10	6.33E-05	2782	0.10	1.14E-07	5207	0.20	1.69E-06
411	-0.10	5.99E-05	2788	0.20	1.67E-09	5211	0.20	1.26E-09

412	-0.20	2.58E-07	2789	0.20	2.96E-04	5219	0.20	1.37E-09
415	-0.10	5.19E-04	2790	0.20	9.32E-10	5223	0.10	4.04E-04
423	-0.20	7.84E-06	2791	0.10	1.21E-06	5229	-0.20	8.54E-04
425	-0.10	1.22E-04	2795	0.10	1.81E-03	5230	0.20	1.02E-14
429	0.10	5.24E-04	2796	0.10	4.43E-04	5235	-0.30	3.92E-11
433	-0.10	9.16E-05	2815	0.10	1.03E-03	5239	-0.20	9.01E-06
435	-0.20	1.11E-03	2816	-0.20	9.86E-05	5247	0.10	2.67E-05
444	-0.20	1.04E-06	2826	-0.20	9.39E-03	5249	-0.10	1.40E-05
447	-0.20	8.88E-05	2828	0.10	1.37E-04	5252	-0.10	9.92E-03
450	0.10	2.07E-04	2829	-0.20	4.21E-07	5255	0.10	5.93E-04
467	-0.10	1.34E-05	2830	-0.20	2.58E-07	5261	-0.20	3.03E-07
476	0.10	2.10E-06	2838	-0.20	1.42E-06	5262	0.10	3.55E-03
478	0.10	3.20E-08	2839	-0.10	6.21E-03	5273	-0.20	7.60E-11
479	-0.50	6.51E-07	2843	0.10	1.32E-04	5274	-0.20	7.15E-11
406								
481	0.10	2.31E-04	2844	-0.30	6.81E-05	5275	-0.20	8.89E-13
488	-0.20	7.61E-06	2845	-0.30	2.63E-04	5278	0.10	3.42E-04
491	0.10	9.22E-03	2848	-0.30	2.86E-19	5285	-0.20	2.80E-10
494	0.10	2.29E-03	2850	-0.10	1.89E-03	5293	-0.10	1.91E-03
497	-0.20	2.41E-10	2853	-0.10	7.08E-04	5295	-0.10	3.78E-04
499	0.20	5.78E-12	2859	0.10	3.98E-04	5302	-0.10	8.47E-08
502	0.10	8.86E-03	2860	0.20	1.66E-03	5307	0.10	9.88E-03
508	0.20	8.10E-15	2866	-0.10	2.28E-03	5308	-0.20	1.90E-08
511	-0.10	7.68E-04	2873	0.20	3.61E-04	5317	0.30	2.21E-23
524	0.10	6.02E-06	2874	-0.20	6.60E-06	5322	0.20	1.65E-04
525	-0.10	1.19E-03	2877	0.20	8.03E-03	5326	-0.10	4.03E-04
529	-0.20	5.71E-07	2878	-0.10	3.26E-06	5329	-0.30	3.78E-08
531	0.10	8.28E-04	2882	0.10	2.78E-04	5330	0.10	3.84E-04
532	0.10	7.35E-03	2885	-0.20	1.27E-03	5331	-0.10	1.19E-04
534	-0.20	9.57E-09	2887	-0.40	6.61E-04	5333	-0.10	2.23E-05
536	-0.10	7.70E-03	2888	-0.10	2.63E-06	5334	-0.10	1.92E-05
537	0.10	1.75E-08	2889	0.10	3.84E-04	5338	0.10	3.29E-03
540	-0.10	3.45E-06	2890	0.10	1.45E-07	5339	0.10	2.55E-03
550	0.20	1.30E-06	2896	-0.30	3.09E-10	5343	0.10	1.58E-06
552	0.10	2.28E-03	2900	0.10	3.24E-03	5344	0.30	3.43E-22
553	-0.10	3.95E-05	2901	-0.20	7.28E-07	5345	0.30	6.54E-28
561	-0.20	2.66E-09	2907	-0.20	3.87E-07	5348	0.20	1.51E-05
565	0.20	3.51E-10	2914	0.20	1.18E-10	5350	0.10	2.69E-03

570	-0.10	4.68E-05	2921	-0.10	4.79E-04	5353	0.20	1.51E-14
578	0.10	1.66E-04	2924	0.10	2.13E-06	5356	-0.10	7.79E-04
580	-0.20	7.56E-09	2927	0.20	2.25E-07	5360	0.10	3.23E-03
582	0.10	3.94E-05	2941	-0.20	2.26E-08	5368	0.10	8.82E-03
586	-0.10	2.67E-06	2946	0.10	6.99E-04	5369	-0.10	2.38E-04
592	0.20	9.74E-08	2954	-0.10	1.16E-06	5379	-0.10	1.44E-06
614	-0.20	1.13E-06	2955	-0.40	8.19E-08	5381	0.10	9.52E-05
615	0.10	8.71E-03	2959	-0.20	8.20E-17	5383	0.20	7.08E-04
617	-0.10	5.65E-03	2965	0.10	1.12E-05	5384	0.10	6.60E-03
623	0.20	6.80E-09	2971	-0.20	5.20E-08	5389	-0.10	8.13E-03
628	0.20	2.56E-04	2974	-0.20	1.21E-05	5391	-0.10	4.17E-05
629	0.10	6.52E-07	2995	0.20	2.66E-08	5397	0.10	4.32E-06
633	0.20	1.84E-09	2996	0.10	1.59E-03	5399	-0.10	4.38E-03
637	-0.10	6.49E-05	2997	0.10	8.05E-05	5402	-0.10	1.08E-05
644	0.20	1.71E-18	2998	-0.20	4.90E-06	5407	-0.20	1.59E-03
647	0.10	2.18E-05	3003	0.10	1.89E-03	5412	-0.10	3.76E-03
649	0.10	3.05E-03	3008	0.10	1.13E-03	5414	-0.20	6.64E-17
652	0.10	2.56E-04	3010	-0.10	2.25E-03	5418	0.10	3.20E-04
653	0.10	1.13E-03	3015	0.10	7.27E-03	5419	0.10	2.40E-05
655	0.10	1.34E-05	3028	0.10	5.04E-06	5426	-0.10	9.81E-03
657	-0.20	4.59E-07	3033	-0.30	4.85E-04	5427	-0.10	9.55E-03
663	-0.20	2.58E-06	3037	-0.20	3.68E-08	5429	0.20	9.77E-07
664	-0.20	6.30E-10	3040	-0.10	5.27E-03	5431	-0.30	3.63E-05
667	-0.10	8.02E-04	3042	0.10	2.07E-03	5432	0.10	5.10E-09
668	-0.20	3.43E-09	3044	-0.20	7.94E-07	5435	0.10	9.11E-06
672	0.20	4.20E-10	3048	0.10	2.27E-06	5438	0.10	9.76E-03
680	0.10	1.22E-03	3050	-0.30	2.31E-15	5440	-0.20	1.09E-03
681	0.10	5.28E-04	3053	0.10	2.53E-06	5446	0.10	1.21E-04
690	-0.20	9.17E-09	3079	-0.10	3.89E-05	5453	-0.20	8.52E-03
697	0.10	5.50E-03	3089	-0.10	3.72E-05	5465	0.10	1.11E-05
703	0.20	1.92E-12	3092	0.20	6.91E-03	5466	-0.10	1.08E-06
707	0.20	4.94E-12	3094	-0.10	2.86E-04	5470	-0.20	3.62E-09
718	-0.20	3.49E-13	3097	-0.10	5.85E-04	5473	-0.10	5.09E-03
724	-0.10	2.52E-03	3100	-0.10	6.19E-03	5475	0.20	2.01E-03
726	-0.10	2.39E-03	3102	0.20	6.19E-05	5480	0.20	2.83E-10
736	0.20	2.33E-12	3103	-0.10	5.80E-05	5489	-0.10	1.14E-03
744	-0.10	8.62E-03	3104	-0.10	9.21E-07	5491	0.20	3.81E-09
753	-0.10	3.03E-04	3107	-0.20	6.85E-04	5493	-0.10	3.42E-03

754	0.20	2.08E-05	3111	0.10	7.62E-03	5494	-0.10	2.76E-05
760	-0.30	4.82E-05	3115	-0.10	1.71E-03	5499	0.10	5.45E-03
407								
761	0.20	8.59E-07	3117	0.20	1.94E-04	5501	0.10	4.10E-04
762	0.10	8.99E-03	3118	-0.10	8.14E-05	5502	0.10	6.89E-04
765	-0.20	1.85E-03	3124	-0.20	8.85E-11	5505	-0.40	1.96E-08
766	0.20	3.44E-15	3125	-0.10	5.49E-03	5511	-0.10	4.44E-05
767	-0.20	7.06E-03	3129	0.10	1.12E-06	5513	-0.20	7.34E-08
768	0.10	2.28E-03	3140	-0.10	1.57E-03	5518	-0.20	3.17E-04
769	-0.10	1.49E-06	3142	0.10	6.31E-09	5522	-0.20	1.78E-16
773	0.10	5.21E-08	3144	-0.20	8.59E-08	5527	0.10	1.44E-03
776	0.20	5.22E-20	3145	-0.20	6.35E-08	5536	-0.20	1.02E-08
778	0.10	4.04E-04	3146	0.10	2.29E-03	5539	-0.10	7.69E-03
779	-0.40	3.06E-25	3149	0.10	6.04E-04	5546	-0.10	2.46E-03
781	0.20	2.16E-10	3153	-0.20	3.61E-07	5551	-0.10	8.45E-03
782	-0.10	2.31E-04	3158	-0.10	3.00E-05	5554	-0.20	4.63E-04
784	-0.20	9.32E-04	3165	-0.20	4.12E-09	5567	-0.10	1.38E-04
790	0.20	9.30E-12	3168	0.10	7.03E-07	5570	0.20	1.92E-15
793	0.20	1.59E-07	3177	-0.20	3.05E-06	5571	0.10	8.68E-03
801	-0.30	7.76E-09	3178	-0.10	5.12E-03	5574	-0.20	7.04E-08
808	-0.30	3.44E-17	3180	-0.10	6.97E-03	5575	0.10	8.84E-06
812	0.10	9.45E-04	3183	-0.10	3.26E-06	5578	0.10	1.40E-03
814	-0.10	6.73E-03	3184	0.20	3.03E-10	5580	-0.20	8.37E-10
818	0.10	9.18E-03	3188	-0.10	2.41E-03	5585	0.10	4.62E-04
825	-0.20	1.88E-04	3189	-0.20	9.15E-12	5590	0.10	1.55E-07
829	0.20	1.79E-07	3190	0.20	1.18E-08	5592	0.10	2.14E-06
831	-0.10	3.71E-03	3191	-0.30	8.93E-16	5593	-0.20	1.42E-08
833	-0.30	1.12E-04	3192	-0.30	2.64E-15	5596	-0.10	3.32E-04
839	0.10	7.15E-03	3203	0.10	2.80E-03	5597	-0.10	4.04E-04
840	-0.30	2.14E-11	3210	0.10	3.95E-06	5602	-0.10	3.32E-06
844	0.10	2.44E-03	3217	-0.10	8.52E-03	5605	-0.20	2.44E-05
846	-0.20	4.28E-04	3218	-0.20	3.99E-06	5606	-0.20	3.36E-04
850	-0.10	6.11E-03	3220	0.10	1.06E-05	5608	-0.20	3.73E-16
854	-0.20	1.06E-07	3222	0.10	1.30E-05	5611	-0.10	9.16E-03
855	0.10	5.36E-03	3227	-0.20	1.59E-04	5614	-0.20	1.12E-03
858	-0.10	1.03E-03	3239	-0.10	5.97E-03	5619	0.20	1.11E-09
865	0.10	3.45E-03	3240	-0.10	5.93E-03	5623	0.10	1.98E-03
867	-0.10	5.56E-04	3241	-0.20	3.36E-06	5624	-0.10	2.29E-03

870	0.10	8.57E-03	3245	0.10	1.23E-03	5625	-0.20	3.81E-05
871	-0.10	1.78E-03	3250	-0.10	9.16E-05	5626	0.10	3.73E-06
873	-0.20	1.06E-08	3258	0.10	3.19E-03	5627	0.10	6.42E-04
875	-0.10	1.13E-03	3263	0.10	1.21E-04	5638	0.10	3.26E-03
886	0.10	2.89E-04	3266	0.10	2.43E-03	5639	-0.20	1.33E-08
896	0.10	3.49E-03	3272	0.10	4.54E-04	5644	0.10	4.54E-03
900	0.10	1.56E-05	3280	0.10	4.99E-03	5645	0.10	7.63E-03
912	0.10	4.15E-04	3281	-0.20	9.46E-05	5647	-0.10	6.51E-05
915	0.10	5.85E-03	3286	0.20	5.29E-10	5648	-0.20	2.31E-06
919	0.10	1.56E-03	3291	0.20	2.08E-04	5665	0.10	4.39E-03
925	-0.20	1.74E-03	3302	0.20	5.22E-11	5668	-0.10	8.45E-03
928	0.10	9.45E-07	3303	0.20	3.84E-11	5670	0.30	9.59E-20
934	-0.10	8.99E-05	3310	0.10	1.24E-04	5671	0.10	9.46E-03
935	-0.20	5.13E-06	3312	-0.20	2.30E-12	5674	-0.40	4.76E-19
936	-0.10	3.51E-07	3313	-0.20	1.34E-11	5677	0.10	6.37E-05
939	0.20	1.66E-13	3315	-0.10	6.10E-03	5678	0.10	6.48E-05
942	-0.20	1.46E-03	3317	0.30	1.69E-22	5682	0.10	5.44E-08
945	0.20	1.59E-16	3321	0.20	2.94E-10	5684	0.20	7.56E-04
949	-0.20	4.68E-12	3322	-0.10	1.68E-03	5688	-0.10	7.89E-03
954	0.10	6.29E-05	3327	-0.10	4.66E-03	5690	0.10	8.94E-03
960	-0.10	1.56E-03	3334	-0.10	3.58E-03	5691	0.20	1.08E-08
963	-0.30	5.11E-09	3340	0.20	2.32E-10	5703	0.20	5.79E-19
964	0.10	6.82E-04	3341	-0.10	1.35E-03	5704	0.10	1.24E-03
975	0.10	1.91E-05	3344	-0.10	2.98E-07	5705	0.10	1.30E-04
977	0.10	8.42E-04	3353	0.20	7.45E-10	5707	-0.10	2.76E-04
979	0.10	1.04E-03	3359	-0.20	4.43E-08	5708	-0.20	9.63E-05
983	-0.10	3.12E-03	3367	0.20	6.70E-10	5710	0.10	5.52E-04
984	0.10	8.05E-06	3371	0.10	1.34E-06	5711	-0.10	2.14E-04
408								
991	-0.10	2.91E-03	3372	-0.10	9.19E-05	5713	0.10	1.30E-04
992	-0.10	5.22E-03	3374	-0.10	4.21E-03	5714	0.20	1.91E-12
998	0.10	1.14E-04	3379	-0.30	4.66E-05	5723	-0.20	2.53E-04
1004	-0.10	3.26E-04	3389	0.10	4.26E-03	5741	-0.10	2.95E-05
1012	0.20	5.94E-08	3390	0.20	1.54E-05	5742	-0.10	3.37E-05
1016	-0.20	2.31E-08	3391	0.20	7.53E-14	5752	0.20	2.06E-11
1021	0.20	5.21E-07	3392	0.10	9.46E-03	5753	-0.20	3.99E-03
1029	-0.20	3.26E-09	3395	0.10	4.34E-04	5754	0.10	5.02E-06
1031	-0.20	1.45E-06	3396	-0.10	6.53E-05	5756	0.20	5.47E-10

1032	0.10	5.13E-04	3406	-0.10	4.18E-03	5760	0.10	8.72E-03
1035	-0.10	6.45E-03	3407	0.10	1.34E-06	5761	0.10	1.00E-04
1037	-0.10	1.49E-04	3408	-0.10	2.32E-03	5762	0.10	1.38E-04
1039	-0.10	3.93E-03	3415	0.20	8.52E-06	5764	0.20	7.56E-10
1049	-0.10	2.69E-03	3416	0.10	8.72E-06	5772	0.20	2.68E-03
1050	-0.10	6.68E-03	3417	0.10	3.13E-05	5775	0.10	4.41E-05
1055	-0.20	2.57E-03	3418	0.20	9.38E-12	5777	0.20	1.90E-04
1056	0.10	1.99E-06	3420	0.10	1.61E-04	5784	-0.20	4.59E-08
1063	0.10	4.01E-04	3423	0.10	1.21E-07	5785	-0.30	3.16E-06
1065	-0.10	3.81E-03	3435	-0.10	8.43E-03	5790	-0.10	4.57E-04
1071	0.10	6.82E-03	3438	-0.10	2.32E-05	5791	-0.10	1.30E-06
1072	0.10	1.04E-05	3439	-0.20	6.15E-05	5792	0.10	8.09E-03
1078	-0.10	2.42E-03	3440	-0.20	6.17E-03	5793	0.10	4.16E-03
1084	0.10	1.68E-04	3441	0.10	5.36E-03	5800	-0.10	4.96E-08
1089	-0.10	2.29E-05	3442	-0.10	9.84E-04	5803	0.10	6.08E-03
1094	0.20	9.03E-10	3448	0.10	3.08E-04	5806	-0.40	2.29E-12
1097	-0.20	6.99E-17	3451	0.20	2.12E-04	5807	0.20	5.19E-08
1098	-0.10	6.09E-08	3458	0.10	2.59E-03	5808	0.10	8.32E-04
1100	-0.10	3.78E-04	3463	-0.10	3.32E-04	5815	-0.10	4.81E-03
1108	-0.10	2.04E-03	3465	0.10	1.47E-03	5816	-0.20	1.48E-03
1110	-0.20	6.52E-13	3466	0.10	1.94E-04	5819	-0.10	2.33E-04
1113	-0.10	1.49E-04	3467	0.10	1.65E-03	5821	-0.10	4.69E-05
1114	-0.10	7.58E-03	3470	0.10	9.41E-03	5825	-0.30	9.92E-12
1115	-0.10	9.27E-03	3485	-0.20	1.22E-07	5826	0.10	8.38E-03
1121	-0.10	1.21E-03	3489	0.10	1.87E-06	5828	-0.10	1.84E-03
1122	0.10	5.16E-03	3490	0.10	3.69E-04	5831	-0.10	1.34E-03
1128	-0.20	9.19E-06	3491	0.20	2.69E-18	5835	0.20	2.07E-09
1129	-0.20	5.12E-06	3503	-0.10	2.17E-04	5838	-0.10	1.71E-05
1139	0.10	2.87E-04	3506	-0.20	3.65E-04	5841	0.10	9.23E-03
1140	0.10	1.05E-07	3510	-0.10	1.32E-03	5846	0.10	2.45E-03
1141	0.20	9.96E-07	3514	-0.20	4.17E-07	5856	0.20	1.29E-09
1142	-0.10	1.20E-04	3523	0.10	6.67E-06	5857	0.10	1.29E-04
1149	-0.10	1.85E-03	3527	0.20	1.02E-09	5868	0.20	2.92E-11
1152	0.10	1.67E-03	3529	0.20	2.25E-07	5871	0.10	8.18E-03
1154	-0.10	1.94E-04	3539	0.10	5.41E-06	5873	-0.10	1.82E-03
1156	0.10	8.51E-03	3544	-0.10	4.96E-03	5875	-0.20	5.36E-07
1158	0.10	5.12E-08	3548	-0.50	5.23E-08	5876	-0.10	9.52E-04
1159	0.10	8.47E-04	3550	0.10	3.78E-04	5880	0.10	8.20E-04

1161	0.10	2.27E-03	3554	0.10	3.73E-05	5884	-0.20	4.43E-13
1163	0.10	2.16E-03	3557	-0.20	4.82E-03	5887	-0.20	4.19E-06
1165	0.10	4.48E-04	3558	-0.30	3.90E-31	5890	0.10	8.09E-03
1174	-0.10	6.82E-04	3559	-0.30	7.05E-04	5897	-0.20	4.54E-13
1179	0.10	3.28E-03	3568	0.10	5.74E-07	5898	-0.20	2.03E-05
1182	-0.10	2.03E-03	3569	0.10	1.37E-05	5901	-0.20	1.84E-08
1183	0.10	8.27E-04	3575	-0.20	3.14E-04	5910	-0.20	9.97E-06
1185	0.10	5.13E-06	3579	0.10	4.83E-04	5914	0.20	3.14E-12
1186	0.10	3.11E-03	3582	-0.10	1.36E-04	5916	0.10	6.43E-05
1187	0.20	4.79E-10	3585	-0.10	1.49E-04	5918	-0.10	2.91E-03
1188	0.20	4.31E-10	3587	0.10	2.51E-03	5921	-0.20	1.20E-04
1191	-0.10	1.18E-05	3588	-0.10	5.40E-04	5922	-0.20	3.12E-04
1193	0.20	8.50E-08	3593	-0.20	1.86E-07	5924	-0.10	1.98E-04
1194	0.20	6.16E-11	3594	0.20	2.28E-06	5929	-0.20	9.93E-06
1195	0.10	4.49E-04	3595	-0.20	2.97E-03	5930	-0.30	6.50E-23
1201	-0.10	2.45E-03	3596	-0.10	1.47E-05	5931	0.10	2.84E-04
409								
1213	0.10	9.97E-04	3599	0.20	6.67E-08	5933	-0.20	3.31E-04
1217	0.20	8.07E-06	3601	-0.20	2.16E-07	5937	0.10	4.55E-04
1223	-0.10	1.86E-03	3608	-0.10	6.90E-03	5942	0.10	8.79E-05
1230	0.20	1.89E-03	3609	-0.20	4.33E-03	5946	-0.10	6.63E-03
1239	-0.10	1.41E-04	3613	0.10	3.65E-04	5955	0.10	9.47E-03
1241	0.10	1.88E-03	3615	0.10	6.05E-04	5968	-0.10	1.14E-07
1244	0.10	1.63E-06	3618	0.10	3.83E-05	5970	0.10	6.84E-06
1251	0.10	3.54E-05	3625	0.10	1.53E-07	5971	0.20	2.43E-18
1254	-0.20	2.05E-06	3630	-0.10	3.90E-05	5972	-0.10	1.07E-03
1256	0.10	6.56E-06	3631	-0.10	3.96E-06	5973	0.10	2.46E-04
1260	0.10	2.94E-03	3632	-0.10	2.22E-03	5978	-0.10	8.54E-05
1262	-0.10	3.48E-03	3636	-0.10	2.19E-03	5989	0.10	2.49E-04
1264	0.20	5.97E-07	3649	0.10	4.12E-04	5990	-0.10	1.27E-03
1265	0.10	3.80E-03	3652	-0.20	1.23E-03	5992	-0.10	1.59E-04
1266	-0.10	1.19E-04	3655	-0.20	1.68E-04	5998	-0.10	4.87E-05
1272	-0.10	4.98E-03	3656	-0.10	4.59E-05	6006	-0.10	6.70E-04
1274	0.10	1.47E-03	3658	0.20	2.87E-05	6007	0.10	4.29E-04
1275	-0.10	8.93E-04	3661	-0.10	3.14E-05	6013	-0.20	4.29E-03
1276	-0.20	9.52E-05	3666	-0.10	3.42E-03	6015	-0.10	2.79E-04
1278	-0.10	5.18E-05	3667	0.10	1.51E-05	6016	-0.10	4.39E-04
1281	0.10	4.04E-05	3668	0.20	4.84E-08	6020	0.10	4.78E-03

1283	0.10	6.26E-05	3673	0.30	2.83E-09	6021	-0.10	4.35E-03
1287	-0.10	6.50E-05	3683	-0.20	6.43E-09	6024	0.10	2.40E-03
1289	-0.10	9.21E-03	3695	-0.10	5.56E-04	6026	0.10	8.27E-03
1291	0.20	7.88E-15	3696	-0.20	1.12E-05	6031	0.10	1.41E-03
1299	-0.10	2.02E-04	3697	-0.10	3.80E-03	6033	-0.30	3.03E-11
1303	0.10	5.49E-04	3699	0.10	8.39E-03	6035	0.10	4.18E-06
1305	0.20	3.38E-17	3700	0.10	2.71E-03	6036	-0.20	4.75E-12
1309	0.10	8.96E-04	3703	0.10	7.44E-03	6041	-0.10	5.07E-03
1311	0.20	6.42E-05	3706	-0.20	6.53E-16	6052	-0.20	8.91E-06
1319	0.10	4.67E-06	3708	0.10	2.64E-06	6064	0.10	1.41E-03
1332	0.10	1.43E-03	3709	-0.10	2.62E-03	6066	0.10	2.32E-03
1339	-0.20	3.09E-11	3711	0.10	3.43E-05	6068	0.10	4.89E-06
1340	0.10	1.94E-04	3713	0.10	7.14E-06	6081	0.10	4.52E-04
1341	-0.10	3.78E-04	3714	-0.10	6.50E-05	6086	-0.10	6.67E-04
1346	-0.10	2.86E-04	3728	0.20	7.24E-11	6089	-0.10	2.24E-06
1348	-0.10	2.60E-03	3729	-0.10	4.51E-03	6102	-0.10	8.28E-04
1351	-0.10	1.21E-06	3730	0.10	1.74E-05	6103	-0.10	4.34E-05
1354	-0.10	1.17E-03	3731	0.10	3.88E-04	6105	0.10	9.52E-05
1355	0.10	7.24E-05	3732	0.10	7.89E-03	6112	-0.20	6.76E-14
1363	-0.20	6.89E-04	3734	0.10	4.31E-07	6117	-0.20	9.66E-12
1364	0.20	3.71E-11	3735	-0.20	1.06E-04	6118	0.20	1.68E-12
1370	-0.50	9.19E-12	3737	-0.20	2.95E-03	6125	0.10	6.32E-04
1373	0.10	5.80E-04	3739	-0.10	7.42E-03	6127	-0.20	1.72E-04
1375	-0.10	6.45E-03	3749	-0.10	4.76E-05	6131	0.10	2.41E-04
1378	-0.20	5.25E-05	3750	-0.10	1.25E-04	6134	-0.10	3.16E-06
1380	-0.30	7.24E-09	3752	-0.10	6.98E-05	6135	-0.20	1.17E-05
1383	0.10	2.16E-03	3753	-0.20	6.85E-11	6136	-0.10	1.18E-05
1384	-0.10	4.18E-03	3759	-0.20	7.70E-10	6137	-0.10	1.83E-05
1385	-0.20	8.54E-13	3760	0.10	2.31E-08	6141	0.20	2.50E-15
1389	0.10	1.52E-03	3762	-0.20	5.64E-04	6143	-0.20	1.55E-10
1390	-0.40	2.26E-08	3763	0.20	5.05E-06	6147	-0.10	7.55E-03
1392	-0.10	4.86E-03	3770	0.20	4.57E-11	6152	0.10	4.39E-03
1393	-0.10	4.21E-05	3772	-0.20	4.34E-07	6172	0.20	6.18E-08
1396	-0.10	6.82E-05	3776	-0.20	2.53E-10	6177	0.10	7.73E-05
1397	0.10	9.60E-03	3777	-0.20	1.34E-03	6181	0.10	1.27E-03
1401	-0.20	8.46E-11	3778	0.10	5.35E-08	6186	0.10	1.40E-03
1406	-0.20	3.59E-07	3779	0.10	1.15E-05	6187	0.10	8.64E-03
1409	0.10	5.13E-05	3780	0.10	1.95E-05	6188	0.10	3.34E-03

1410	-0.20	3.89E-13	3785	-0.10	2.28E-03	6192	0.10	4.78E-03
1411	0.20	5.32E-10	3786	-0.10	2.59E-03	6194	0.20	1.35E-03
1421	0.10	2.75E-06	3788	-0.20	2.34E-09	6195	-0.10	4.81E-05
1429	-0.10	9.44E-05	3793	-0.10	4.43E-03	6200	0.20	1.98E-07
410								
1431	0.10	9.06E-08	3796	-0.20	4.02E-09	6201	-0.10	4.69E-04
1434	0.10	1.28E-04	3797	-0.20	3.72E-09	6204	-0.30	1.00E-10
1436	-0.20	5.36E-06	3799	-0.20	3.85E-03	6206	0.20	4.26E-04
1439	0.10	4.01E-04	3800	0.10	3.54E-03	6219	0.10	3.16E-04
1441	-0.10	5.97E-03	3801	0.10	2.56E-03	6221	0.10	8.87E-03
1442	-0.10	5.86E-03	3803	-0.20	1.80E-04	6223	-0.10	1.82E-03
1443	0.10	5.78E-05	3804	0.10	1.29E-05	6224	-0.10	1.85E-03
1444	0.10	3.02E-05	3805	0.10	5.86E-04	6229	-0.10	1.13E-03
1448	-0.20	1.99E-07	3808	-0.10	7.94E-04	6239	-0.20	4.52E-09
1455	0.10	6.36E-03	3810	-0.10	2.16E-05	6241	0.10	2.32E-05
1456	-0.10	8.33E-05	3812	-0.20	5.15E-11	6245	0.10	2.57E-07
1464	0.20	9.35E-20	3841	-0.20	1.85E-03	6246	-0.10	1.40E-04
1467	0.10	2.41E-07	3842	-0.10	4.85E-05	6248	-0.20	1.05E-03
1472	-0.10	9.17E-05	3851	-0.20	9.64E-08	6249	0.20	1.90E-15
1475	-0.10	1.68E-03	3859	-0.10	2.68E-07	6250	-0.10	2.20E-06
1478	0.20	1.47E-10	3862	0.10	1.23E-03	6253	-0.20	6.89E-16
1491	0.20	1.31E-10	3865	-0.10	2.59E-03	6257	-0.30	1.27E-04
1498	-0.30	4.30E-21	3866	0.10	1.73E-03	6258	-0.20	2.16E-06
1506	-0.10	7.63E-03	3879	-0.10	3.22E-05	6259	-0.10	1.84E-03
1507	0.20	9.80E-06	3884	-0.20	3.98E-17	6261	0.20	3.83E-12
1526	-0.10	1.19E-05	3885	0.20	9.16E-13	6262	0.20	4.43E-08
1528	-0.20	2.93E-03	3886	0.10	1.43E-05	6263	-0.10	2.44E-03
1529	-0.10	6.75E-03	3889	-0.30	5.32E-06	6264	-0.20	3.19E-06
1530	-0.10	2.32E-06	3894	0.10	3.20E-03	6267	-0.30	1.10E-08
1532	-0.10	1.32E-04	3900	-0.10	4.71E-08	6276	-0.20	7.87E-04
1533	0.20	1.62E-15	3902	-0.20	3.90E-06	6284	0.20	3.13E-10
1545	0.20	1.90E-06	3907	0.20	9.74E-04	6286	-0.20	1.79E-03
1547	0.20	1.41E-08	3912	-0.10	4.71E-03	6291	0.10	1.86E-03
1560	0.20	1.93E-08	3914	-0.20	2.56E-16	6293	0.20	3.84E-04
1571	-0.10	2.90E-03	3917	0.10	1.83E-05	6294	-0.10	1.72E-07
1574	0.10	7.97E-04	3918	-0.20	2.09E-08	6303	0.10	7.16E-04
1577	0.10	3.40E-05	3926	0.20	1.44E-14	6304	0.10	5.95E-04
1581	0.10	4.30E-04	3927	-0.20	1.35E-08	6305	0.10	4.18E-04

1583	-0.20	1.94E-03	3929	0.10	8.06E-06	6310	0.10	3.66E-06
1585	-0.10	5.18E-05	3931	0.10	7.09E-06	6318	-0.10	6.07E-05
1587	-0.30	2.62E-03	3933	0.10	1.90E-03	6319	0.20	7.73E-03
1588	-0.20	7.28E-08	3938	0.10	2.34E-04	6326	0.10	1.82E-03
1595	-0.10	2.04E-03	3945	-0.20	1.70E-05	6330	-0.20	1.46E-07
1597	-0.10	1.53E-03	3946	0.30	8.07E-27	6337	-0.20	3.60E-09
1599	0.20	2.63E-10	3947	-0.10	8.36E-04	6340	-0.20	1.47E-06
1601	-0.10	2.09E-03	3950	0.10	5.05E-05	6345	0.10	5.53E-03
1604	-0.10	2.16E-03	3957	-0.20	1.99E-04	6348	0.10	2.91E-07
1612	0.10	2.18E-06	3964	-0.20	3.78E-04	6349	-0.10	8.76E-03
1613	0.10	3.35E-03	3969	-0.10	2.90E-05	6351	-0.20	4.62E-09
1614	0.20	4.76E-07	3972	0.20	1.60E-07	6352	-0.30	9.87E-08
1615	-0.20	1.69E-03	3974	0.10	2.01E-03	6356	0.10	8.05E-03
1616	0.10	1.15E-07	3978	-0.20	7.58E-08	6359	-0.10	4.10E-05
1617	-0.10	1.39E-06	3983	0.10	1.57E-04	6360	-0.20	6.84E-04
1620	-0.30	2.68E-23	3985	-0.30	8.31E-04	6361	0.10	1.69E-06
1621	0.10	1.26E-03	3992	0.10	7.90E-03	6365	-0.10	5.87E-04
1622	0.10	2.58E-04	3993	-0.10	4.60E-03	6369	0.10	2.91E-04
1623	0.10	2.07E-05	3994	0.10	5.45E-05	6373	0.20	2.67E-10
1625	0.10	5.02E-04	3996	-0.10	9.38E-04	6376	0.10	4.78E-07
1634	0.20	4.98E-08	4001	0.10	3.78E-03	6377	0.10	9.70E-03
1636	-0.20	4.42E-03	4002	-0.10	5.29E-03	6381	0.20	2.63E-10
1637	0.10	1.15E-04	4009	0.10	1.27E-03	6382	-0.10	1.31E-04
1638	0.10	4.49E-03	4015	0.20	5.48E-12	6388	-0.10	3.95E-04
1642	0.10	2.60E-04	4017	-0.10	2.57E-03	6396	-0.10	1.69E-03
1644	-0.30	3.90E-12	4022	-0.10	1.56E-03	6398	-0.20	7.84E-06
1653	0.20	1.48E-15	4023	-0.20	4.76E-03	6402	-0.20	4.78E-05
1659	0.20	6.06E-03	4025	0.20	6.15E-13	6404	0.10	2.21E-05
1662	-0.20	7.34E-04	4027	0.10	2.48E-03	6405	0.10	1.11E-04
1664	-0.10	1.76E-07	4028	-0.10	8.06E-03	6406	0.10	1.18E-03
411								
1665	-0.20	3.25E-04	4030	-0.10	1.42E-04	6408	0.10	7.64E-04
1668	0.10	2.15E-04	4032	0.20	1.73E-11	6412	0.10	2.87E-06
1676	-0.10	2.54E-03	4040	-0.10	1.29E-05	6415	-0.10	1.76E-03
1677	0.10	2.94E-04	4041	-0.10	1.35E-04	6417	0.20	9.57E-10
1678	0.10	5.91E-03	4043	0.10	8.63E-03	6418	0.10	4.21E-03
1681	0.20	9.42E-12	4044	-0.10	2.39E-04	6420	-0.10	4.76E-03
1684	0.10	1.43E-03	4045	0.20	2.46E-10	6428	-0.10	2.77E-04

1686	0.10	2.49E-04	4049	0.10	3.61E-03	6431	-0.40	1.00E-08
1696	-0.30	3.97E-03	4050	0.10	1.16E-04	6436	0.20	4.83E-10
1700	0.10	3.99E-04	4051	-0.20	2.68E-18	6438	0.10	5.46E-03
1705	-0.20	1.67E-04	4052	-0.20	2.92E-19	6439	0.10	3.11E-05
1711	0.10	1.71E-03	4055	0.10	2.17E-06	6440	0.20	8.41E-09
1713	0.10	8.07E-03	4059	0.10	6.90E-03	6441	0.20	3.49E-03
1717	-0.20	4.05E-04	4060	0.20	2.97E-10	6452	-0.10	1.26E-03
1718	0.20	5.32E-08	4061	0.20	5.58E-10	6454	-0.10	1.72E-05
1722	0.30	1.93E-21	4070	-0.20	8.59E-08	6455	0.20	1.05E-07
1724	-0.10	7.00E-03	4075	-0.30	2.40E-24	6456	0.10	2.43E-03
1727	0.10	6.95E-05	4076	-0.30	1.43E-06	6459	0.10	1.03E-03
1730	0.20	4.58E-10	4077	-0.10	3.35E-03	6461	-0.10	2.55E-04
1731	-0.10	3.39E-03	4079	0.10	3.65E-04	6464	-0.10	7.47E-04
1737	0.10	1.88E-04	4081	0.10	2.25E-03	6468	-0.20	2.05E-06
1743	-0.20	2.76E-03	4082	-0.10	2.11E-03	6471	-0.10	5.39E-03
1744	0.10	7.23E-04	4084	0.10	4.75E-07	6473	-0.20	1.08E-05
1745	0.10	6.23E-04	4090	0.10	5.39E-03	6474	0.10	7.77E-03
1751	0.20	3.06E-18	4096	0.20	4.55E-07	6475	0.10	3.84E-03
1752	0.10	6.37E-07	4098	-0.10	1.75E-06	6478	0.10	5.57E-05
1758	0.20	3.20E-04	4106	-0.10	1.02E-07	6479	0.10	4.39E-03
1760	0.10	4.32E-03	4110	-0.10	1.70E-03	6486	0.10	4.07E-03
1761	-0.20	8.92E-07	4120	-0.20	8.00E-07	6487	0.10	2.41E-04
1768	-0.20	2.59E-07	4121	-0.30	1.56E-14	6493	-0.20	7.95E-04
1774	-0.40	9.02E-06	4122	-0.20	6.96E-08	6498	-0.10	5.63E-05
1776	-0.20	9.49E-08	4131	-0.20	3.01E-03	6502	-0.20	8.60E-05
1780	0.20	1.02E-18	4134	-0.10	4.95E-03	6505	-0.10	6.35E-06
1788	-0.10	1.88E-04	4137	0.10	8.99E-03	6509	-0.10	1.36E-04
1790	-0.10	5.15E-06	4149	-0.10	2.46E-03	6515	0.10	1.75E-03
1794	0.10	9.83E-05	4155	0.10	4.13E-05	6520	0.10	2.09E-03
1795	-0.10	5.57E-03	4156	0.20	3.85E-16	6521	-0.10	4.65E-04
1804	-0.20	8.84E-04	4158	0.10	4.74E-04	6522	0.10	3.35E-04
1805	-0.20	2.12E-06	4159	0.20	5.72E-08	6523	-0.20	1.84E-11
1806	0.20	2.02E-04	4164	0.10	4.30E-03	6531	0.10	2.87E-04
1810	0.20	2.29E-04	4170	0.20	3.21E-13	6532	-0.10	8.62E-04
1813	0.10	4.26E-05	4187	0.10	6.21E-03	6533	0.10	6.85E-03
1815	-0.20	2.76E-04	4193	0.10	5.35E-03	6535	-0.10	7.06E-05
1820	-0.10	7.57E-05	4202	0.10	2.42E-03	6540	-0.20	2.43E-07
1823	0.10	6.48E-04	4203	0.10	7.59E-06	6544	0.10	4.12E-07

1825	-0.20	4.40E-08	4205	0.20	3.10E-12	6545	0.10	3.73E-03
1827	-0.10	2.07E-06	4214	-0.20	2.40E-04	6550	-0.10	2.12E-05
1829	-0.30	1.42E-07	4215	0.20	1.42E-09	6551	-0.20	1.27E-03
1836	-0.20	6.96E-08	4217	0.10	8.72E-03	6561	-0.20	2.79E-03
1846	-0.20	4.05E-07	4219	0.20	1.44E-06	6568	-0.10	7.32E-03
1849	0.20	1.60E-08	4231	0.20	3.29E-15	6570	-0.10	5.70E-03
1853	0.10	2.61E-03	4234	-0.30	3.07E-11	6571	-0.30	1.27E-06
1858	-0.20	9.74E-11	4236	0.20	9.42E-07	6576	0.20	3.37E-03
1859	-0.10	4.93E-06	4241	0.10	5.60E-03	6577	0.10	7.54E-07
1862	-0.10	5.42E-03	4244	-0.20	7.03E-12	6580	-0.10	1.07E-03
1867	-0.20	5.84E-07	4245	-0.20	1.17E-06	6582	0.20	5.21E-10
1869	0.10	7.68E-06	4246	-0.10	2.45E-04	6583	-0.10	2.11E-07
1871	-0.10	6.34E-03	4248	-0.30	2.33E-05	6585	-0.10	6.01E-05
1873	0.20	1.36E-06	4249	0.10	4.07E-05	6587	0.10	1.24E-04
1875	-0.20	8.81E-04	4252	-0.20	2.14E-08	6600	0.10	9.34E-07
1876	0.10	1.62E-04	4259	0.20	1.09E-11	6601	-0.10	6.52E-03
1884	-0.20	1.76E-08	4261	0.10	7.02E-05	6615	0.10	4.15E-05
1889	-0.20	2.22E-13	4264	-0.20	7.26E-05	6619	-0.10	6.64E-03
412								
1890	0.10	9.48E-03	4265	0.10	3.04E-03	6621	-0.10	2.43E-05
1892	0.10	9.24E-03	4266	-0.20	2.72E-03	6623	-0.20	3.29E-03
1900	0.10	2.76E-04	4271	-0.20	6.89E-04	6624	0.20	2.34E-04
1905	-0.20	3.63E-04	4274	-0.20	8.08E-09	6625	0.20	1.40E-04
1906	-0.10	3.06E-04	4276	-0.10	2.10E-03	6626	-0.20	2.23E-09
1907	-0.10	9.76E-04	4284	-0.10	2.80E-03	6635	-0.20	4.05E-07
1910	0.20	1.59E-04	4285	0.20	4.48E-07	6639	0.10	5.18E-06
1914	0.10	3.76E-05	4289	0.10	3.44E-03	6640	-0.20	1.01E-05
1924	-0.10	2.39E-03	4297	0.20	9.54E-10	6643	0.20	4.83E-10
1926	0.10	2.23E-07	4299	-0.20	1.87E-06	6644	-0.20	7.36E-09
1927	-0.10	2.21E-04	4301	-0.30	2.20E-09	6646	-0.10	6.74E-03
1928	-0.20	9.13E-09	4313	0.20	1.76E-11	6647	0.20	3.27E-07
1929	0.10	2.20E-06	4315	-0.10	1.34E-03	6648	-0.40	7.87E-07
1930	0.10	1.89E-06	4319	-0.10	1.02E-03	6651	-0.10	4.56E-03
1938	-0.20	2.09E-06	4326	-0.10	6.82E-03	6654	-0.20	2.04E-04
1939	0.20	1.10E-08	4327	0.10	4.46E-03	6658	-0.10	1.09E-03
1941	0.20	1.63E-13	4328	0.10	1.09E-03	6659	0.20	4.60E-11
1942	-0.10	3.62E-03	4331	-0.10	6.43E-03	6660	-0.20	5.42E-09
1947	0.10	1.81E-04	4334	0.10	1.89E-08	6663	-0.20	3.73E-04

1956	0.10	6.71E-04	4335	0.10	3.24E-04	6668	0.10	8.17E-04
1964	0.10	6.77E-04	4341	0.10	5.36E-05	6669	0.10	1.24E-03
1969	0.20	2.17E-10	4348	-0.10	6.43E-04	6671	-0.20	7.51E-13
1971	0.10	7.35E-05	4352	0.10	2.37E-05	6675	-0.20	4.26E-06
1974	-0.10	1.74E-03	4354	0.10	1.07E-03	6676	-0.10	5.35E-03
1978	-0.10	3.31E-03	4358	0.20	1.29E-05	6678	0.20	6.53E-07
1980	0.10	3.00E-03	4362	-0.20	3.13E-11	6681	0.10	2.27E-05
1981	0.20	9.56E-13	4373	0.10	1.53E-03	6683	-0.20	1.07E-08
1988	-0.10	9.92E-03	4379	-0.30	1.47E-03	6685	-0.20	2.67E-05
1990	-0.20	4.58E-05	4386	-0.20	1.14E-08	6688	-0.20	2.93E-03
1992	0.10	1.33E-03	4390	0.10	1.47E-03	6689	-0.10	3.65E-03
1996	0.30	2.67E-13	4391	0.10	2.25E-03	6690	-0.30	4.67E-09
1997	0.20	5.04E-04	4395	0.10	5.19E-04	6693	-0.20	5.98E-03
2002	-0.50	1.18E-07	4396	0.10	7.07E-07	6694	-0.20	6.11E-03
2004	0.10	1.73E-03	4398	-0.20	5.86E-07	6695	-0.20	7.30E-03
2008	-0.10	5.50E-03	4399	0.10	3.02E-03	6697	0.20	3.01E-08
2009	-0.20	6.85E-10	4400	-0.20	1.55E-04	6698	-0.10	3.63E-04
2010	-0.10	2.41E-03	4401	-0.20	2.99E-07	6701	-0.10	1.98E-03
2015	-0.30	1.56E-05	4405	-0.20	2.20E-05	6702	-0.20	3.34E-04
2017	-0.10	1.14E-05	4407	-0.10	7.81E-03	6703	-0.20	1.57E-06
2019	0.10	9.33E-03	4410	-0.10	1.79E-03	6706	-0.10	9.76E-06
2024	0.20	7.51E-08	4415	-0.10	2.56E-04	6708	-0.10	4.06E-03
2030	0.10	6.30E-07	4417	0.20	1.29E-09	6709	0.10	8.57E-05
2038	0.20	1.87E-04	4422	0.10	2.40E-05	6716	0.10	4.98E-04
2041	0.10	3.62E-03	4425	0.10	9.25E-04	6717	0.10	8.60E-04
2044	-0.10	4.24E-05	4426	-0.10	4.76E-05	6718	-0.20	4.46E-05
2049	0.10	4.03E-06	4446	-0.30	3.00E-14	6721	0.10	8.87E-03
2050	-0.10	4.42E-04	4450	-0.20	4.39E-09	6722	-0.10	3.72E-05
2056	-0.20	1.36E-11	4451	-0.10	4.36E-03	6724	0.10	1.20E-03
2057	0.10	2.12E-03	4452	-0.10	2.74E-03	6727	0.20	1.93E-12
2059	0.20	7.62E-07	4454	0.10	2.66E-03	6729	0.10	9.51E-06
2061	-0.10	9.61E-04	4464	-0.10	6.18E-03	6730	-0.10	4.46E-04
2075	-0.20	4.85E-13	4469	-0.10	6.66E-03	6735	0.10	1.36E-03
2077	0.20	1.93E-10	4470	0.10	1.41E-04	6748	0.10	2.19E-05
2088	0.10	2.37E-03	4471	-0.30	4.08E-03	6749	-0.30	2.24E-09
2089	-0.10	9.78E-03	4472	-0.10	4.21E-06	6754	0.10	2.91E-03
2090	-0.10	2.37E-06	4473	-0.30	6.87E-05	6755	0.10	1.02E-05
2093	-0.10	9.52E-13	4478	-0.20	1.43E-06	6757	-0.30	9.47E-16

2094	-0.20	7.31E-11	4481	0.10	1.56E-03	6764	0.10	2.68E-03
2102	-0.10	2.71E-03	4485	-0.20	1.78E-07	6770	-0.10	3.06E-04
2105	0.20	4.40E-09	4487	0.30	3.84E-22	6776	0.20	3.38E-07
2107	0.10	2.93E-06	4493	-0.10	2.50E-03	6780	-0.20	1.33E-06
2110	0.10	3.18E-04	4501	0.10	6.47E-06	6783	-0.10	1.38E-04
2114	-0.30	2.53E-06	4505	0.10	2.57E-03	6789	-0.20	1.79E-03
413								
2116	-0.10	3.85E-03	4508	0.10	1.41E-04	6793	0.10	4.39E-03
2117	-0.10	2.24E-03	4515	0.10	2.37E-05	6798	0.20	3.60E-04
2123	0.10	8.64E-03	4517	0.10	1.57E-04	6799	0.10	3.68E-03
2126	0.20	5.63E-08	4522	-0.10	2.94E-04	6805	0.10	8.89E-03
2128	-0.10	4.56E-04	4523	0.10	1.75E-05	6808	-0.10	3.96E-03
2131	-0.30	5.63E-06	4525	-0.20	1.77E-06	6817	-0.20	4.85E-03
2134	0.10	1.40E-03	4528	-0.20	3.41E-05	6818	-0.30	3.48E-30
2141	0.10	1.76E-04	4529	-0.30	2.43E-03	6819	-0.20	5.55E-03
2145	-0.10	1.50E-05	4536	0.20	4.33E-11	6820	-0.30	3.92E-05
2162	0.10	3.97E-05	4537	-0.10	6.87E-04	6834	-0.10	9.06E-03
2163	-0.10	8.00E-03	4541	-0.20	1.55E-07	6836	-0.10	1.97E-03
2166	0.10	8.27E-03	4542	0.20	5.21E-21	6839	0.10	1.37E-06
2171	0.10	4.35E-05	4543	0.20	1.23E-05	6842	-0.20	7.32E-03
2172	0.10	2.57E-03	4545	0.10	2.93E-04	6843	-0.20	7.89E-07
2177	0.10	4.68E-06	4551	-0.20	9.75E-07	6844	-0.20	6.72E-03
2178	0.10	6.75E-03	4558	0.20	2.50E-08	6849	-0.50	1.15E-09
2187	-0.10	1.23E-03	4559	0.20	2.15E-08	6856	-0.20	5.13E-11
2192	-0.10	4.36E-03	4560	-0.10	2.22E-03	6862	-0.30	3.68E-05
2193	-0.10	4.77E-03	4561	0.10	7.41E-05	6869	-0.20	9.26E-12
2194	-0.10	3.44E-03	4565	0.10	2.58E-03	6870	-0.30	3.98E-04
2195	-0.20	7.16E-09	4567	-0.20	7.00E-07	6876	0.10	6.18E-06
2200	-0.20	1.28E-03	4568	-0.10	9.71E-03	6879	-0.20	1.00E-08
2201	0.10	6.94E-08	4578	0.10	2.52E-07	6887	-0.20	2.52E-07
2210	-0.10	9.62E-03	4580	-0.10	7.11E-04	6888	-0.10	8.97E-03
2211	0.10	1.02E-06	4581	0.10	4.96E-08	6889	-0.10	2.75E-03
2216	0.10	9.23E-04	4582	0.10	1.89E-05	6894	0.10	8.34E-04
2218	0.20	6.58E-08	4583	0.20	4.15E-11	6899	0.20	1.39E-07
2219	-0.10	9.56E-03	4584	0.10	4.76E-04	6910	0.20	5.42E-06
2224	0.20	2.54E-15	4586	-0.10	9.88E-04	6919	-0.10	1.07E-03
2228	-0.20	1.91E-03	4602	0.30	4.07E-25	6925	-0.30	2.09E-03
2229	-0.10	6.12E-05	4608	-0.20	1.02E-11	6928	0.20	1.10E-10

2231	0.20	7.53E-07	4611	0.10	3.27E-03	6936	-0.20	1.11E-13
2232	-0.10	1.31E-03	4612	-0.20	2.83E-03	6937	0.10	2.08E-03
2237	-0.10	3.93E-03	4614	0.10	6.17E-07	6945	0.20	6.81E-11
2239	-0.10	1.90E-03	4615	-0.30	2.30E-05	6951	0.20	2.22E-07
2248	-0.10	6.33E-03	4616	-0.10	3.83E-06	6953	0.20	2.31E-18
2250	-0.10	8.62E-04	4619	-0.20	5.55E-15	6961	0.10	7.35E-03
2251	-0.20	1.13E-08	4620	0.10	8.37E-04	6962	0.10	2.04E-03
2261	-0.20	5.30E-08	4622	-0.10	2.04E-05	6976	0.20	2.01E-08
2268	-0.10	1.42E-03	4623	-0.10	1.06E-03	6996	0.10	3.60E-08
2275	-0.20	6.58E-11	4629	0.20	1.23E-08	6998	-0.20	3.11E-07
2285	-0.20	9.16E-08	4634	-0.20	3.45E-09	6999	-0.10	1.72E-06
2293	0.10	5.71E-04	4646	-0.10	4.03E-03	7008	0.10	3.19E-03
2294	0.10	6.03E-04	4650	0.10	6.08E-03	7009	-0.10	1.39E-03
2300	0.20	1.02E-16	4651	0.10	1.72E-06	7010	-0.10	2.50E-03
2303	0.10	4.44E-05	4654	-0.30	9.65E-15	7011	-0.10	7.42E-04
2304	0.10	3.26E-07	4662	-0.20	1.66E-06	7012	-0.10	7.82E-04
2311	0.10	1.26E-04	4664	0.10	1.28E-03	7025	0.10	6.46E-07
2314	0.10	7.84E-08	4671	-0.10	3.48E-04	7027	-0.20	7.56E-05
2315	0.20	1.74E-10	4678	0.20	2.85E-08	7028	0.20	2.36E-05
2316	0.10	3.77E-04	4679	-0.20	6.11E-11	7035	-0.10	3.24E-03
2317	0.10	8.12E-03	4690	-0.20	9.32E-07	7036	-0.10	3.47E-03
2318	-0.10	6.16E-03	4691	-0.30	8.11E-13	7044	-0.20	1.80E-08
2322	0.10	9.24E-03	4696	-0.10	3.02E-04	7047	-0.10	2.42E-03
2323	0.10	2.23E-09	4708	-0.20	6.50E-04	7048	-0.20	3.87E-05
2324	-0.30	3.82E-20	4723	-0.10	2.11E-03	7051	-0.10	5.05E-03
2325	-0.10	3.73E-04	4728	0.10	7.71E-05	7053	-0.10	3.13E-07
2328	0.10	7.94E-04	4731	-0.10	9.67E-03	7056	-0.10	5.99E-03
2329	-0.10	8.29E-04	4746	0.10	1.12E-03	7072	-0.10	1.65E-07
2330	0.20	1.01E-07	4753	-0.10	4.43E-05	7073	-0.10	1.65E-07
2335	-0.30	2.17E-16	4757	-0.10	7.11E-05	7079	0.10	7.10E-05
2341	-0.10	1.46E-03	4758	-0.10	1.26E-05	7081	-0.10	4.82E-03
2343	0.10	9.19E-03	4760	-0.20	9.42E-07	7082	0.10	4.83E-04
414								
2345	-0.20	7.28E-08	4761	-0.20	8.54E-07	7084	-0.20	1.33E-05
2354	-0.30	8.09E-06	4762	0.10	1.41E-04	7085	-0.10	7.84E-05
2360	-0.10	3.93E-03	4764	0.10	2.42E-04	7086	-0.20	4.49E-11
2362	-0.10	1.84E-05	4765	-0.10	1.05E-03	7088	-0.10	8.20E-05
2371	-0.20	1.11E-08	4771	-0.30	2.15E-06	7090	-0.10	4.36E-04

2373	-0.30	1.56E-08	4774	0.10	2.04E-03	7091	0.10	7.67E-03
2388	-0.10	1.48E-04	4780	0.10	6.06E-05	7092	0.20	6.75E-09
2389	-0.20	1.66E-13	4781	0.20	1.80E-07	7095	0.20	2.19E-05
2390	-0.10	8.24E-04	4786	-0.20	1.43E-08	7101	-0.10	4.65E-03

7108	-0.10	8.18E-03	9301	0.15	5.56E-05	12012	-0.17	7.57E-05
7122	-0.20	4.01E-03	9302	0.16	4.76E-05	12022	-0.25	1.87E-07
7125	0.10	2.06E-03	9304	-0.09	3.80E-03	12032	0.16	6.10E-07
7128	0.20	1.30E-08	9307	0.09	6.06E-03	12045	-0.19	5.61E-04
7133	0.10	3.46E-03	9311	-0.15	2.79E-07	12065	-0.17	7.88E-05
7139	-0.20	3.13E-05	9314	0.14	1.05E-05	12066	-0.09	2.41E-03
7140	-0.30	4.56E-07	9315	-0.09	3.21E-03	12067	-0.19	5.85E-05
7143	0.30	1.43E-07	9316	0.19	3.76E-05	12071	0.15	3.17E-03
7145	0.10	3.79E-03	9319	0.10	2.81E-04	12073	-0.19	4.41E-07
7149	0.20	1.47E-08	9327	-0.28	7.84E-08	12076	0.14	2.15E-07
7161	-0.10	5.17E-04	9329	-0.10	2.41E-04	12081	-0.13	1.30E-05
7165	-0.10	1.23E-03	9332	-0.09	8.57E-03	12086	-0.08	6.56E-03
7166	-0.10	4.40E-04	9341	-0.10	4.14E-04	12090	0.13	2.57E-06
7175	-0.10	3.98E-04	9342	-0.34	1.46E-12	12095	-0.17	5.96E-07
7187	0.20	1.17E-05	9347	-0.24	5.29E-18	12118	-0.19	1.63E-03
7189	0.20	1.75E-11	9348	-0.06	1.85E-03	12126	0.07	5.28E-03
7193	0.30	3.14E-04	9349	-0.28	2.26E-08	12130	-0.31	2.33E-04
7195	-0.20	7.25E-13	9352	0.10	1.25E-03	12132	0.12	1.54E-05
7197	-0.10	2.25E-03	9353	0.09	1.75E-03	12141	-0.07	4.86E-04
7198	-0.20	2.00E-04	9355	0.17	1.15E-09	12144	-0.19	2.41E-03
7199	-0.20	2.14E-10	9356	-0.07	7.07E-03	12153	-0.18	3.21E-07
7204	0.10	4.45E-03	9357	-0.07	9.31E-03	12162	-0.09	1.48E-03
7208	-0.20	5.80E-06	9358	0.08	9.29E-03	12166	-0.26	2.50E-09
7212	-0.10	9.50E-03	9360	-0.16	1.08E-04	12168	0.11	2.89E-04
7218	-0.10	3.48E-06	9361	0.11	1.08E-04	12170	-0.17	9.22E-07
7219	-0.10	8.44E-03	9362	0.09	8.62E-03	12174	-0.11	3.95E-05
7223	-0.10	3.20E-03	9367	-0.10	7.64E-03	12177	0.10	3.67E-03
7229	0.10	1.57E-05	9368	0.27	6.65E-24	12186	0.14	5.25E-07
7231	0.10	5.08E-08	9369	0.09	8.04E-04	12190	-0.14	7.80E-06
7232	-0.20	7.10E-14	9373	0.23	2.04E-14	12193	-0.16	7.60E-07
7233	0.10	1.72E-05	9376	0.11	2.34E-04	12194	-0.15	7.58E-04
7239	-0.20	2.64E-04	9378	0.11	5.56E-05	12200	0.08	3.61E-03
7245	0.10	2.70E-04	9383	-0.13	6.98E-06	12208	0.19	2.64E-11
7247	-0.10	1.05E-05	9388	-0.25	1.10E-05	12214	0.12	1.71E-04
7251	0.10	2.37E-03	9393	0.10	3.71E-04	12215	-0.15	6.68E-04

7255	0.20	2.39E-05	9394	-0.22	3.41E-07	12216	-0.09	3.10E-03
7269	0.20	5.09E-07	9397	-0.13	2.26E-04	12226	-0.15	4.12E-05
7270	-0.20	1.71E-06	9398	-0.12	1.80E-04	12228	-0.27	1.94E-05
7271	-0.20	1.57E-08	9399	-0.21	7.26E-03	12230	0.20	1.59E-05
7275	-0.30	3.46E-04	9401	0.09	8.09E-03	12232	0.18	9.96E-11
7279	-0.20	1.13E-09	9402	-0.19	3.54E-10	12235	-0.19	1.05E-04
7280	-0.10	2.71E-03	9404	-0.15	1.96E-06	12240	0.11	3.59E-04
7289	0.10	8.47E-06	9406	-0.09	1.19E-05	12241	-0.20	4.67E-05
7291	-0.10	4.36E-06	9413	-0.20	3.71E-05	12242	-0.09	1.47E-03
7300	0.10	5.19E-03	9424	-0.16	2.20E-06	12245	-0.09	2.04E-03
7304	-0.20	6.26E-05	9437	-0.32	9.70E-06	12275	0.15	1.33E-06
7305	-0.10	6.42E-03	9449	0.15	9.16E-04	12281	-0.20	8.15E-03
7307	-0.10	4.65E-03	9450	0.14	3.70E-03	12284	0.15	9.26E-08
7308	-0.10	6.77E-03	9452	-0.15	1.91E-03	12286	0.16	4.80E-06
7311	-0.10	2.09E-05	9455	0.17	9.74E-07	12288	0.11	1.98E-04
7313	0.10	1.11E-03	9458	-0.27	4.16E-03	12291	0.22	3.11E-18
7315	-0.20	5.83E-05	9459	-0.09	3.13E-03	12292	0.13	2.20E-06
7319	-0.20	6.76E-03	9472	-0.09	8.76E-03	12293	-0.33	6.63E-12
7322	-0.10	9.39E-07	9476	-0.12	3.85E-05	12294	-0.15	8.09E-04
7323	-0.20	2.15E-03	9478	0.21	6.77E-07	12302	0.10	1.49E-03
7327	0.10	6.07E-03	9483	-0.18	2.22E-06	12308	0.09	2.14E-03
7329	-0.30	1.40E-05	9485	-0.18	3.91E-08	12310	0.15	3.18E-04
7331	0.20	4.34E-06	9494	-0.28	4.78E-04	12316	-0.18	2.89E-03
7335	-0.10	1.52E-03	9500	-0.14	2.63E-05	12317	0.11	4.18E-05
7340	-0.20	5.88E-05	9502	0.11	1.56E-04	12322	0.09	7.98E-05
7344	0.10	5.25E-04	9505	-0.11	2.91E-09	12326	-0.09	4.35E-03
7357	0.10	1.01E-06	9508	0.09	1.39E-03	12330	0.08	7.22E-03
7361	0.10	2.02E-05	9516	0.12	1.03E-03	12336	0.17	5.77E-11
7362	-0.20	4.30E-06	9517	-0.11	5.08E-03	12343	-0.21	9.36E-04
7367	-0.10	8.07E-04	9521	-0.12	4.46E-05	12344	0.13	4.72E-06
7374	0.20	5.05E-11	9529	0.12	3.07E-06	12356	-0.18	2.47E-07
7376	0.10	2.60E-05	9530	-0.11	1.64E-03	12358	-0.18	1.20E-10
7388	-0.10	1.71E-06	9531	-0.12	7.28E-05	12368	0.13	2.40E-07
7390	0.20	9.79E-07	9538	-0.28	1.96E-10	12376	0.11	4.26E-04
7396	0.10	1.27E-05	9540	-0.15	1.06E-05	12393	0.08	3.43E-03
7403	-0.20	1.55E-04	9542	-0.20	4.94E-03	12408	-0.22	6.14E-03
7404	-0.20	1.03E-04	9557	-0.16	3.92E-07	12409	0.13	5.30E-07

7406	0.10	3.95E-04	9558	-0.16	2.08E-07	12412	-0.09	1.99E-03
7410	0.10	2.25E-06	9575	0.16	6.49E-09	12415	0.21	6.15E-04
7414	0.10	6.34E-05	9582	0.08	5.55E-03	12444	-0.24	7.37E-06
7421	-0.10	6.82E-03	9584	-0.08	5.48E-03	12458	0.14	5.07E-07
7424	0.10	2.88E-03	9587	0.07	8.44E-03	12462	0.11	8.44E-05
7426	0.20	1.31E-09	9589	0.09	8.57E-03	12465	-0.27	2.08E-09
7427	-0.20	6.70E-05	9590	0.12	8.51E-06	12466	-0.17	5.93E-06
7429	0.20	3.16E-15	9594	-0.09	5.06E-03	12469	-0.17	3.46E-06
7430	-0.10	9.14E-05	9598	-0.18	2.51E-06	12477	-0.16	1.89E-04
7431	0.10	7.52E-06	9607	0.09	4.09E-03	12482	-0.26	1.85E-08
7434	0.10	4.66E-06	9609	0.22	1.94E-12	12484	0.12	8.09E-04
7441	-0.20	8.32E-09	9615	-0.09	2.71E-03	12489	-0.22	1.11E-06
7443	-0.20	8.89E-04	9616	0.07	4.97E-03	12491	0.14	3.64E-07
7447	-0.20	1.37E-09	9617	-0.23	1.74E-08	12498	0.20	1.90E-13
7448	-0.20	6.12E-12	9624	0.07	6.95E-03	12499	-0.08	4.38E-03
7450	-0.20	2.36E-07	9627	-0.23	1.20E-03	12500	-0.18	9.98E-06
7454	-0.10	7.76E-05	9628	-0.29	1.86E-07	12503	0.09	2.38E-03
7460	0.10	1.67E-05	9633	-0.26	1.94E-04	12509	-0.19	1.12E-06
7461	0.10	1.77E-04	9635	0.16	2.58E-08	12518	0.15	1.46E-08
7464	-0.20	2.11E-07	9636	-0.12	8.37E-03	12519	-0.11	6.48E-04
7471	-0.10	1.83E-03	9638	0.12	1.35E-05	12521	0.18	8.78E-11
7472	0.10	5.72E-03	9639	-0.17	3.29E-05	12522	-0.11	2.36E-04
7476	-0.20	1.13E-04	9641	0.09	8.06E-03	12524	0.14	7.43E-07
7477	-0.10	2.09E-03	9646	-0.18	6.70E-09	12529	0.18	1.17E-09
7478	-0.20	1.63E-03	9654	-0.17	8.29E-03	12535	-0.18	1.48E-04
7486	-0.10	1.98E-04	9660	-0.16	2.25E-07	12536	-0.19	9.72E-09
7493	0.20	4.33E-09	9662	0.14	2.96E-04	12542	-0.10	5.95E-04
7494	0.10	2.80E-03	9665	-0.30	6.67E-15	12544	0.20	2.07E-09
7496	-0.10	4.43E-05	9670	0.07	7.39E-03	12545	-0.19	1.02E-03
7498	0.20	3.51E-09	9671	0.10	1.48E-03	12546	0.11	2.52E-05
7499	-0.20	3.61E-03	9672	-0.16	2.43E-07	12547	-0.16	2.67E-08
7503	-0.10	3.29E-04	9676	0.16	1.19E-09	12549	0.13	1.97E-04
7504	-0.30	2.34E-06	9677	0.13	1.92E-05	12565	0.14	6.57E-04
7506	-0.10	5.67E-04	9680	0.17	2.86E-10	12577	-0.17	1.25E-08
7507	-0.20	3.88E-11	9681	0.17	7.92E-05	12583	-0.18	7.98E-05
7508	-0.20	1.04E-03	9682	-0.12	5.48E-06	12584	-0.16	5.22E-05
7509	0.10	5.04E-03	9684	0.11	3.50E-05	12590	-0.27	2.46E-09
7515	-0.30	8.95E-11	9685	-0.27	5.75E-10	12591	-0.10	2.43E-03

7516	-0.30	4.35E-11	9686	-0.13	2.47E-03	12597	-0.10	1.60E-03
7523	-0.20	3.59E-05	9687	-0.10	2.33E-04	12598	-0.23	4.38E-09
7526	-0.10	2.54E-03	9688	0.08	2.03E-03	12602	-0.09	2.66E-03
7527	0.10	1.10E-04	9689	-0.23	7.17E-03	12605	-0.08	5.88E-03
7529	0.10	7.13E-03	9692	0.14	5.97E-06	12606	-0.18	4.58E-08
7532	-0.10	1.28E-04	9694	0.19	1.37E-09	12610	-0.22	1.64E-03
7533	0.10	9.00E-05	9695	-0.33	4.52E-07	12611	0.10	3.42E-04
7537	0.10	1.05E-04	9696	-0.12	6.05E-03	12613	-0.29	3.68E-16
7539	0.10	1.99E-03	9698	0.14	3.34E-07	12623	-0.09	4.01E-03
7540	0.10	3.94E-03	9699	-0.19	5.74E-08	12625	0.09	1.48E-03
7545	0.20	4.82E-09	9701	-0.17	2.50E-06	12630	0.11	2.04E-03
7547	-0.10	1.86E-04	9707	-0.16	3.82E-07	12644	-0.12	1.22E-04
7548	-0.20	1.85E-10	9711	-0.06	3.61E-03	12655	-0.13	1.86E-05
7549	-0.20	6.38E-13	9714	0.20	4.79E-14	12656	-0.28	2.17E-13
7559	0.10	4.57E-05	9715	-0.18	4.54E-11	12657	0.16	5.25E-09
7560	0.10	6.09E-05	9718	-0.08	6.90E-03	12668	-0.29	1.04E-16
7561	0.20	3.54E-10	9719	-0.10	1.14E-04	12673	-0.11	4.12E-04
7564	-0.10	1.23E-04	9723	0.12	5.55E-03	12675	-0.29	3.17E-20
7565	-0.10	5.74E-03	9730	-0.18	1.31E-05	12676	-0.10	7.33E-03
7568	0.10	2.15E-03	9732	-0.21	1.89E-04	12679	-0.19	3.50E-06
7569	0.10	3.07E-03	9734	0.16	1.62E-04	12682	0.13	1.27E-04
7570	-0.10	6.70E-08	9738	-0.11	4.53E-04	12683	-0.17	4.53E-09
7571	0.10	2.82E-06	9746	0.20	2.16E-07	12686	0.17	1.35E-03
7573	0.30	1.13E-22	9747	-0.22	2.80E-04	12689	0.14	1.47E-03
7575	-0.20	2.20E-05	9750	0.14	8.27E-06	12691	0.08	9.92E-03
7578	-0.20	3.02E-05	9753	0.10	1.03E-03	12692	0.09	4.27E-03
7580	0.10	2.19E-04	9757	-0.43	3.43E-06	12693	0.10	1.90E-04
7581	-0.10	1.72E-04	9763	0.16	5.36E-07	12699	-0.16	1.08E-05
7582	-0.20	3.80E-07	9766	0.14	2.34E-03	12711	0.10	4.48E-03
7584	0.10	6.15E-05	9767	-0.28	2.27E-05	12715	-0.17	6.54E-04
7594	-0.10	2.52E-05	9771	-0.10	8.47E-04	12725	-0.29	3.98E-13
7601	-0.10	9.20E-05	9780	-0.10	9.95E-03	12728	-0.17	2.78E-04
7603	-0.20	1.32E-05	9782	-0.15	4.48E-07	12730	-0.12	1.85E-05
7605	-0.20	2.95E-08	9788	0.16	7.08E-04	12740	-0.13	4.92E-05
7606	0.10	1.04E-04	9789	0.18	9.70E-07	12752	-0.12	9.70E-05
7612	0.20	9.57E-06	9796	-0.27	4.19E-03	12765	-0.18	3.91E-03
7621	-0.10	8.94E-03	9800	-0.14	3.09E-03	12766	-0.15	1.53E-03

7635	-0.20	1.38E-06	9809	0.13	4.04E-05	12781	-0.10	6.32E-03
7639	0.10	2.30E-03	9810	0.21	3.11E-13	12788	-0.23	1.10E-03
7642	-0.10	2.20E-03	9817	0.08	2.42E-04	12794	-0.08	6.16E-03
7643	0.10	1.24E-03	9818	0.08	9.90E-05	12795	0.10	2.20E-04
7648	-0.30	3.34E-03	9820	0.10	7.03E-03	12798	-0.13	1.94E-06
7649	-0.20	1.50E-08	9822	-0.12	2.73E-04	12799	0.20	5.24E-11
7652	-0.10	4.80E-03	9833	-0.26	1.07E-04	12804	-0.23	4.22E-03
7657	0.10	7.73E-03	9835	0.10	2.49E-03	12814	-0.28	1.65E-05
7658	-0.50	5.64E-06	9838	-0.11	1.43E-04	12816	-0.26	2.87E-08
7659	-0.20	1.26E-08	9849	-0.10	2.48E-03	12828	-0.09	4.67E-03
7660	0.20	8.68E-07	9851	-0.44	5.61E-11	12833	-0.12	4.52E-05
7665	0.10	1.59E-06	9858	-0.22	8.26E-15	12837	0.08	6.54E-03
7668	-0.10	3.28E-03	9859	-0.24	6.52E-15	12840	-0.25	2.46E-05
7688	-0.10	2.86E-05	9860	-0.13	3.92E-04	12842	-0.10	1.21E-03
7689	0.10	8.93E-08	9862	0.21	2.77E-04	12850	0.15	7.16E-09
7690	-0.10	2.86E-06	9863	-0.13	7.92E-04	12865	0.21	1.18E-03
7691	-0.10	1.75E-06	9867	-0.22	5.58E-13	12867	-0.15	9.36E-05
7693	-0.10	2.90E-03	9868	-0.15	2.46E-05	12880	0.15	1.09E-05
7695	-0.10	5.27E-03	9869	-0.18	2.42E-06	12882	-0.13	9.91E-04
7708	-0.10	7.16E-04	9874	-0.14	4.16E-06	12885	0.13	5.92E-07
7718	0.20	2.21E-04	9876	0.14	4.68E-07	12888	-0.15	2.50E-06
7721	-0.20	2.27E-09	9891	0.13	6.73E-06	12889	0.15	1.26E-07
7722	-0.40	1.21E-10	9892	-0.11	7.06E-03	12902	-0.20	7.85E-09
7723	-0.20	4.01E-05	9899	0.13	2.35E-06	12905	-0.24	6.23E-13
7724	0.10	2.53E-04	9900	-0.22	1.18E-03	12907	0.08	7.29E-03
7725	0.10	3.52E-03	9905	0.17	3.52E-04	12909	-0.08	7.70E-03
7727	0.20	4.20E-11	9908	0.15	4.35E-08	12914	-0.12	6.04E-03
7729	0.10	3.01E-04	9913	-0.17	4.54E-09	12927	-0.23	6.62E-15
7732	-0.20	8.76E-08	9917	-0.13	5.81E-04	12933	-0.18	1.30E-04
7737	-0.10	4.78E-07	9919	0.09	1.62E-03	12935	0.11	2.82E-04
7738	0.20	2.86E-09	9922	-0.12	2.60E-04	12938	-0.21	9.70E-04
7739	-0.10	9.00E-04	9927	0.17	1.37E-07	12940	0.12	8.61E-06
7743	0.10	6.89E-06	9928	0.21	3.02E-09	12941	-0.15	6.81E-03
7745	0.20	9.93E-09	9936	0.11	1.49E-06	12945	0.09	3.43E-03
7747	0.10	4.71E-03	9945	-0.15	3.25E-07	12948	-0.20	8.76E-07
7750	0.10	1.65E-03	9946	0.15	1.10E-07	12952	0.08	1.61E-03
7751	0.10	3.95E-04	9951	-0.14	8.78E-05	12964	-0.12	6.62E-03
7753	0.10	1.14E-03	9952	0.13	1.63E-05	12969	0.06	2.95E-03

7755	0.10	1.52E-05	9953	0.09	5.19E-03	12977	0.10	1.68E-03
7759	-0.10	1.52E-04	9954	0.18	2.74E-03	12981	0.11	4.00E-04
7761	0.10	5.57E-03	9956	0.17	1.41E-05	12987	0.12	1.36E-05
7763	-0.20	7.60E-08	9957	-0.19	8.03E-07	12993	0.18	8.84E-12
7777	-0.10	3.90E-06	9959	0.17	2.86E-10	12994	-0.18	2.73E-09
7781	0.20	8.05E-11	9961	0.11	7.42E-05	12995	0.09	1.11E-03
7782	-0.20	1.67E-06	9964	0.14	7.06E-06	13000	-0.17	1.17E-10
7785	-0.10	3.06E-04	9982	-0.11	4.63E-05	13002	-0.13	5.46E-05
7791	0.10	2.86E-03	9987	-0.07	7.17E-03	13003	-0.11	6.30E-03
7800	-0.20	5.11E-03	9993	-0.10	2.10E-06	13007	0.14	1.56E-03
7808	-0.20	4.81E-04	9994	0.09	1.07E-03	13009	-0.14	4.09E-06
7815	-0.20	6.15E-11	9995	0.20	9.34E-15	13010	0.10	6.22E-04
7816	-0.20	4.21E-06	10000	-0.08	7.88E-03	13011	0.09	1.80E-03
7822	-0.30	2.56E-20	10001	0.12	3.19E-05	13018	-0.10	5.42E-03
7823	0.10	9.21E-04	10002	-0.11	2.23E-03	13020	0.11	3.18E-05
7827	-0.20	1.85E-07	10003	-0.18	8.32E-10	13029	0.09	3.61E-03
7828	-0.20	5.74E-06	10006	-0.11	1.20E-04	13031	-0.32	1.83E-06
7841	0.20	3.45E-06	10011	-0.13	8.12E-06	13040	-0.13	6.13E-03
7843	0.10	8.78E-04	10015	-0.07	7.10E-03	13043	0.08	1.50E-03
7854	-0.20	8.61E-04	10019	0.09	4.05E-03	13051	0.17	7.78E-11
7858	-0.20	1.07E-06	10024	-0.10	6.82E-03	13055	0.08	7.38E-03
7859	-0.10	2.64E-04	10026	-0.08	6.46E-03	13060	0.08	6.77E-03
7860	-0.30	3.49E-12	10033	0.13	1.30E-06	13063	-0.11	4.03E-03
7861	-0.20	2.55E-06	10035	0.11	2.65E-04	13065	-0.09	3.60E-03
7862	0.10	1.29E-03	10036	-0.16	2.03E-07	13075	0.09	1.40E-03
7863	0.10	4.06E-06	10039	-0.12	1.36E-04	13077	-0.11	4.01E-03
7869	-0.30	5.74E-04	10041	0.16	6.82E-04	13080	0.11	2.54E-04
7871	0.10	6.93E-07	10043	-0.27	4.19E-03	13086	-0.24	9.09E-04
7873	0.10	4.74E-03	10056	0.09	9.56E-03	13089	-0.18	2.23E-06
7874	0.10	6.09E-05	10061	0.23	1.02E-05	13097	0.09	1.79E-03
7875	-0.10	2.16E-03	10062	-0.23	2.98E-16	13098	0.12	5.35E-06
7876	-0.20	4.11E-08	10064	-0.24	1.75E-03	13111	0.11	7.08E-05
7879	-0.10	5.37E-05	10066	-0.08	3.03E-03	13122	-0.11	2.08E-03
7883	0.10	7.71E-03	10067	0.06	4.64E-03	13124	-0.06	8.36E-03
7885	0.10	5.75E-04	10074	-0.14	2.20E-03	13126	-0.17	6.43E-09
7888	0.10	2.58E-06	10076	-0.12	3.31E-05	13128	-0.19	1.32E-05
7889	-0.10	2.85E-07	10077	-0.16	2.69E-14	13131	0.12	5.30E-06

7899	-0.10	1.77E-04	10079	0.12	3.21E-03	13132	0.08	2.26E-03
7900	-0.30	4.86E-10	10080	-0.17	1.21E-06	13139	0.33	7.99E-25
7901	0.10	5.32E-05	10084	0.18	2.47E-07	13142	-0.27	9.57E-06
7906	-0.10	1.17E-05	10087	-0.09	1.58E-03	13143	0.20	6.74E-13
7908	-0.10	8.65E-05	10092	-0.34	1.73E-30	13149	0.16	2.46E-08
7911	-0.30	3.49E-04	10094	-0.15	6.09E-03	13151	-0.16	1.82E-03
7915	0.10	5.73E-05	10095	0.08	1.31E-04	13161	-0.18	1.07E-11
7916	0.10	1.74E-05	10102	0.11	2.20E-03	13178	0.10	2.44E-04
7921	-0.10	3.87E-04	10103	-0.07	6.56E-03	13184	-0.17	4.57E-06
7930	-0.10	7.20E-03	10104	-0.09	1.77E-03	13194	0.12	3.04E-05
7939	0.20	1.67E-16	10107	-0.14	1.75E-05	13195	-0.11	1.35E-04
7942	-0.10	7.34E-03	10117	-0.11	1.30E-04	13199	-0.17	7.07E-06
7951	0.10	1.47E-03	10119	-0.19	9.10E-11	13207	0.18	2.84E-07
7952	0.10	2.61E-06	10120	0.14	1.10E-03	13211	-0.22	6.59E-04
7962	0.10	5.65E-03	10124	-0.12	2.33E-05	13214	0.08	2.05E-03
7963	0.20	4.87E-07	10129	0.13	3.20E-06	13218	-0.15	7.38E-03
7964	0.10	6.67E-05	10132	0.10	1.86E-03	13230	-0.12	5.49E-05
7965	0.20	5.05E-14	10138	-0.25	3.27E-04	13236	-0.25	4.19E-03
7966	-0.10	2.34E-04	10139	-0.23	3.46E-17	13254	0.15	6.75E-08
7972	0.10	6.24E-03	10140	0.21	2.43E-09	13255	-0.09	2.37E-03
7976	-0.10	5.90E-03	10148	-0.08	4.15E-03	13258	-0.19	1.82E-03
7981	0.10	3.31E-05	10157	-0.22	2.59E-14	13264	-0.15	2.61E-08
7982	0.10	4.83E-06	10160	0.20	1.36E-13	13276	0.08	2.06E-03
7983	0.10	9.49E-06	10162	-0.28	1.67E-20	13279	-0.20	6.48E-04
7987	-0.20	7.08E-03	10174	0.08	6.19E-03	13281	-0.11	4.10E-03
7997	0.10	1.52E-03	10175	0.08	6.15E-03	13295	0.12	1.10E-03
8007	-0.40	7.02E-05	10177	0.11	8.12E-05	13296	0.11	5.64E-04
8012	-0.20	7.50E-07	10187	-0.08	2.03E-03	13302	0.10	3.93E-04
8013	-0.20	2.38E-04	10193	-0.12	4.97E-04	13305	-0.23	1.03E-06
8014	0.10	3.66E-03	10196	-0.32	5.74E-05	13308	-0.15	6.99E-03
8015	0.20	1.10E-05	10198	0.22	5.57E-12	13310	0.11	7.46E-05
8016	-0.10	2.98E-03	10199	0.23	8.68E-19	13312	-0.09	2.08E-03
8018	0.20	8.23E-06	10200	0.13	8.54E-07	13315	-0.40	1.38E-03
8022	-0.20	1.73E-05	10203	-0.12	4.77E-05	13324	-0.07	6.31E-03
8024	-0.10	1.20E-04	10204	0.16	1.07E-06	13328	0.16	1.32E-08
8025	-0.20	2.94E-06	10206	0.19	1.17E-10	13336	-0.12	5.23E-05
8028	-0.10	2.38E-03	10225	0.18	1.76E-03	13349	0.12	5.25E-05

8031	0.10	2.12E-05	10229	0.11	1.02E-04	13352	-0.10	5.40E-03
8034	0.10	4.32E-04	10231	0.12	5.09E-04	13355	-0.08	5.41E-03
8035	0.10	5.12E-04	10241	0.08	9.73E-03	13363	0.08	2.30E-03
8037	-0.20	5.44E-06	10248	0.15	4.03E-06	13365	-0.28	1.47E-04
8040	0.10	2.00E-03	10258	-0.19	9.91E-06	13367	0.14	2.47E-08
8044	0.10	2.00E-04	10261	0.10	2.26E-03	13368	-0.21	2.14E-04
8046	0.20	5.78E-08	10263	-0.08	4.75E-03	13372	-0.13	4.45E-06
8048	-0.10	3.85E-04	10266	0.08	2.41E-03	13378	-0.25	3.70E-05
8055	0.10	4.79E-06	10269	-0.15	3.67E-03	13382	0.26	1.65E-10
8060	-0.10	5.55E-05	10274	-0.25	1.23E-09	13384	-0.11	2.40E-04
8062	-0.10	4.71E-05	10276	-0.27	2.12E-03	13394	-0.17	2.21E-07
8063	-0.10	3.59E-05	10280	0.10	9.98E-04	13396	-0.10	1.07E-04
8075	-0.20	1.73E-09	10283	-0.14	5.22E-05	13404	-0.20	6.56E-03
8083	-0.10	2.12E-03	10286	-0.18	2.40E-07	13406	-0.09	3.18E-03
8085	-0.20	3.05E-07	10287	0.13	1.25E-05	13407	0.08	4.55E-03
8087	-0.20	4.01E-07	10288	0.21	2.25E-09	13434	0.09	1.21E-03
8089	0.20	1.49E-06	10290	0.11	1.41E-04	13441	0.10	1.52E-04
8090	0.10	6.46E-04	10291	-0.27	1.58E-20	13448	0.07	9.66E-03
8093	-0.10	4.48E-05	10299	0.15	2.18E-06	13466	-0.15	8.49E-08
8094	0.30	3.33E-20	10300	-0.14	2.08E-04	13472	-0.25	2.50E-04
8102	-0.10	5.95E-04	10302	0.15	3.99E-08	13479	0.09	1.94E-03
8105	0.10	2.15E-05	10304	-0.18	7.79E-09	13485	0.19	2.95E-07
8107	0.20	5.81E-04	10305	-0.11	9.07E-05	13491	-0.40	9.54E-04
8111	-0.30	1.90E-30	10307	0.16	6.93E-03	13495	0.08	4.28E-03
8117	0.20	1.96E-08	10314	0.19	1.86E-05	13501	-0.15	5.00E-08
8119	-0.20	3.98E-15	10315	-0.11	5.82E-03	13517	-0.15	1.33E-04
8127	0.20	2.97E-14	10317	-0.11	1.76E-03	13519	0.23	2.09E-08
8132	-0.10	1.04E-04	10324	-0.09	5.16E-04	13526	0.12	2.64E-05
8133	-0.10	2.14E-04	10327	-0.15	1.24E-05	13527	-0.23	1.35E-16
8134	0.20	5.01E-08	10329	-0.14	1.40E-04	13538	-0.16	3.13E-07
8137	-0.10	9.48E-03	10331	0.08	8.87E-03	13540	-0.33	1.10E-03
8141	-0.10	7.19E-03	10333	0.12	6.88E-06	13552	0.08	7.39E-03
8142	-0.10	1.13E-05	10341	-0.24	5.08E-11	13561	-0.13	5.36E-04
8143	-0.10	1.14E-05	10353	0.21	6.31E-07	13565	-0.15	1.04E-07
8146	0.10	1.19E-07	10357	0.11	8.22E-04	13578	0.14	5.36E-07
8147	0.10	6.77E-04	10358	-0.18	2.03E-05	13583	0.09	9.92E-04
8149	0.10	1.06E-04	10362	-0.11	8.44E-04	13584	-0.08	9.06E-03
8150	0.20	2.71E-14	10363	0.12	2.02E-05	13592	-0.28	1.66E-03

8161	0.20	9.29E-10	10367	0.13	1.88E-06	13599	-0.08	6.16E-03
8163	-0.10	7.21E-08	10368	0.09	7.12E-03	13608	0.15	1.30E-07
8168	-0.20	1.86E-08	10369	-0.10	6.30E-03	13609	0.12	2.31E-05
8169	-0.10	3.52E-03	10370	0.12	7.74E-06	13611	-0.10	4.30E-04
8172	0.10	7.85E-03	10374	-0.22	3.00E-15	13629	0.16	1.73E-09
8173	0.10	5.56E-03	10375	-0.17	2.30E-08	13631	-0.13	3.59E-04
8174	0.10	2.63E-03	10378	-0.10	5.04E-03	13637	-0.16	1.29E-07
8176	-0.10	3.24E-03	10379	-0.10	4.12E-03	13656	-0.08	6.19E-04
8188	0.20	4.17E-10	10381	-0.08	7.80E-03	13663	-0.09	3.81E-03
8189	-0.10	1.50E-05	10386	-0.14	2.68E-07	13668	0.17	3.53E-06
8190	-0.20	4.01E-03	10387	-0.09	1.87E-03	13689	-0.23	8.19E-05
8192	0.10	6.94E-06	10391	0.08	9.58E-03	13700	-0.14	1.89E-05
8194	-0.20	1.55E-07	10393	-0.13	1.67E-03	13702	-0.12	4.38E-04
8196	-0.10	6.00E-06	10399	0.09	5.49E-04	13706	0.16	1.26E-06
8199	0.10	1.24E-03	10402	-0.12	9.36E-06	13707	-0.36	5.88E-08
8208	0.10	5.12E-05	10404	-0.10	2.43E-04	13710	0.07	9.40E-03
8210	0.20	1.66E-04	10408	-0.09	2.40E-03	13711	0.17	3.99E-05
8212	-0.20	5.05E-06	10409	0.13	2.48E-06	13712	-0.12	1.60E-05
8219	0.10	1.15E-03	10419	0.11	7.02E-03	13727	-0.12	5.20E-04
8220	-0.10	7.42E-03	10421	0.13	1.81E-04	13740	0.11	2.92E-04
8224	-0.10	9.95E-04	10422	0.11	6.17E-03	13741	-0.09	2.40E-03
8228	0.20	1.74E-07	10423	0.08	6.43E-03	13743	-0.14	1.43E-03
8232	0.10	7.98E-03	10436	-0.24	2.08E-04	13763	-0.24	2.22E-04
8233	-0.20	2.78E-17	10438	0.21	7.63E-16	13769	-0.19	2.02E-03
8234	0.10	7.27E-03	10439	0.20	8.69E-11	13772	0.08	4.12E-03
8235	-0.10	6.97E-04	10441	0.20	1.10E-11	13783	-0.14	6.08E-07
8239	0.10	9.35E-04	10444	-0.38	3.13E-23	13784	-0.20	1.88E-04
8240	-0.30	2.37E-16	10446	-0.16	5.39E-04	13791	0.15	2.04E-08
8243	-0.20	1.80E-07	10451	0.08	8.71E-03	13793	-0.14	6.98E-05
8244	-0.10	8.42E-06	10453	-0.22	3.30E-03	13812	-0.10	5.12E-04
8246	-0.40	1.49E-08	10454	0.15	2.35E-09	13813	-0.14	4.57E-07
8250	0.20	2.18E-04	10456	-0.16	9.89E-05	13814	-0.20	3.82E-05
8255	-0.10	7.51E-03	10457	0.07	6.14E-04	13816	0.17	7.55E-05
8256	-0.10	4.63E-03	10462	0.15	6.93E-08	13831	-0.08	7.17E-03
8261	0.10	9.48E-03	10474	-0.17	2.00E-08	13839	-0.16	9.97E-07
8270	0.10	1.49E-05	10478	0.17	5.05E-05	13852	0.16	2.08E-08
8274	0.10	4.08E-07	10480	-0.16	5.69E-06	13857	0.08	1.59E-03

8276	-0.10	7.81E-07	10481	0.12	5.43E-05	13861	0.12	1.17E-04
8277	-0.20	5.19E-03	10483	0.18	1.24E-03	13869	-0.17	1.56E-05
8286	0.20	1.66E-03	10487	-0.13	5.18E-04	13878	-0.13	1.67E-05
8287	-0.10	9.64E-08	10490	-0.17	3.94E-09	13879	-0.10	4.44E-04
8289	-0.30	2.96E-21	10491	0.13	7.78E-03	13885	0.12	3.21E-04
8293	0.10	1.31E-05	10492	0.15	6.14E-06	13891	-0.15	1.30E-04
8300	-0.20	1.11E-08	10494	0.15	5.53E-11	13898	0.16	3.62E-08
8301	0.10	2.36E-03	10495	-0.09	6.94E-03	13899	-0.12	9.15E-04
8308	0.20	7.89E-04	10503	0.12	1.22E-05	13906	-0.17	3.59E-06
8312	0.20	1.38E-09	10507	-0.15	1.27E-06	13913	0.08	9.02E-03
8318	-0.10	1.53E-07	10509	-0.11	5.35E-04	13916	-0.17	3.26E-04
8319	0.10	9.58E-03	10515	-0.25	1.90E-05	13917	-0.10	7.77E-04
8321	-0.10	2.76E-03	10516	-0.15	8.26E-06	13919	-0.18	3.77E-05
8323	-0.10	2.07E-03	10520	-0.43	2.96E-12	13926	-0.15	6.99E-03
8330	0.10	8.05E-04	10537	-0.11	3.64E-04	13927	0.19	1.85E-08
8332	-0.20	7.19E-07	10539	0.14	2.71E-07	13929	-0.17	5.56E-08
8333	0.20	3.29E-08	10543	-0.19	2.72E-05	13934	-0.18	1.53E-09
8334	-0.10	8.63E-03	10545	0.10	3.17E-03	13935	0.08	6.40E-03
8336	-0.10	3.58E-04	10550	-0.10	6.23E-04	13939	-0.09	2.48E-03
8338	-0.10	6.66E-07	10551	-0.21	4.46E-03	13949	-0.20	1.55E-06
8340	-0.30	1.33E-06	10554	-0.15	8.13E-05	13951	0.09	1.81E-03
8341	0.10	5.12E-08	10561	-0.11	5.59E-03	13954	-0.18	6.52E-04
8343	0.10	3.00E-05	10563	-0.17	4.61E-04	13967	-0.23	7.23E-03
8346	-0.20	2.04E-03	10569	0.09	8.90E-04	13984	-0.18	2.69E-10
8347	-0.10	8.56E-03	10570	-0.16	1.27E-07	13994	0.12	3.80E-05
8351	0.10	7.36E-06	10576	-0.08	3.38E-03	13997	0.17	3.88E-05
8352	-0.20	1.57E-10	10579	-0.16	3.40E-03	13998	0.31	4.60E-21
8353	-0.20	8.03E-11	10584	-0.12	1.95E-05	14010	-0.13	1.62E-06
8354	-0.20	6.47E-04	10586	-0.15	4.07E-03	14016	0.12	4.75E-05
8356	-0.10	1.31E-03	10588	0.08	7.83E-03	14025	-0.18	1.12E-04
8358	-0.10	1.33E-05	10590	-0.19	9.36E-11	14030	0.08	7.64E-03
8361	0.10	4.77E-03	10597	-0.13	2.26E-06	14031	-0.11	9.74E-05
8365	-0.10	4.99E-04	10599	-0.11	6.01E-03	14050	0.13	1.27E-05
8366	-0.10	3.81E-04	10604	-0.25	7.24E-11	14052	-0.16	3.00E-07
8367	-0.10	1.81E-04	10605	-0.12	1.22E-03	14079	0.27	1.95E-22
8383	0.20	1.06E-10	10608	-0.25	2.80E-16	14081	-0.20	1.60E-06
8384	-0.30	1.47E-05	10612	-0.17	2.02E-04	14083	-0.24	1.17E-06
8386	0.10	3.27E-03	10616	0.09	2.12E-03	14086	-0.11	3.66E-05

8387	0.10	2.04E-03	10619	0.18	6.62E-04	14089	0.09	1.63E-03
8391	-0.20	4.63E-13	10622	-0.27	5.26E-05	14090	-0.16	2.86E-03
8395	-0.10	4.35E-03	10624	-0.11	2.35E-03	14106	0.12	6.08E-07
8397	0.20	7.01E-10	10625	0.21	1.31E-11	14113	0.12	7.90E-06
8398	0.10	4.81E-05	10631	0.11	3.08E-04	14130	-0.10	2.82E-03
8402	-0.10	4.32E-04	10633	-0.22	1.79E-11	14144	0.10	2.67E-04
8403	0.10	6.59E-03	10636	-0.22	6.43E-03	14152	0.17	7.01E-05
8405	0.10	3.69E-05	10639	-0.07	7.03E-03	14153	-0.17	2.80E-05
8406	0.10	7.75E-04	10644	0.12	1.76E-03	14164	-0.13	2.20E-05
8411	-0.10	7.58E-03	10655	-0.10	3.84E-04	14170	0.11	9.46E-05
8412	-0.10	9.07E-03	10666	-0.13	3.99E-04	14182	0.13	9.31E-06
8413	0.10	1.30E-06	10667	0.13	5.32E-07	14187	-0.25	6.12E-04
8418	0.10	3.14E-04	10668	-0.27	2.40E-09	14191	-0.12	1.10E-03
8420	0.10	2.64E-04	10674	-0.17	7.77E-09	14192	0.10	6.28E-03
8421	-0.30	1.26E-16	10677	0.16	1.94E-08	14194	-0.21	1.24E-04
8423	-0.10	1.27E-05	10678	-0.18	1.72E-03	14195	-0.25	2.76E-11
8427	0.10	3.51E-03	10681	-0.09	2.42E-03	14197	-0.26	1.45E-06
8429	0.10	1.56E-03	10687	0.10	2.42E-04	14206	0.17	2.69E-06
8434	-0.40	3.06E-06	10688	-0.17	1.35E-08	14213	0.13	1.02E-05
8436	-0.10	1.11E-03	10717	-0.18	2.61E-08	14214	-0.18	1.16E-04
8446	-0.10	3.91E-06	10722	0.21	3.34E-10	14222	-0.22	2.71E-05
8451	-0.10	6.99E-05	10728	0.18	1.84E-04	14226	0.11	7.18E-03
8454	-0.30	1.84E-17	10731	-0.13	7.99E-03	14237	-0.31	1.61E-14
8455	0.10	2.78E-03	10738	-0.20	3.86E-06	14242	-0.09	8.97E-04
8457	0.10	6.80E-03	10748	0.15	5.36E-06	14244	-0.16	3.97E-09
8460	-0.10	1.01E-03	10758	-0.27	1.87E-09	14253	0.19	2.43E-05
8463	-0.20	7.23E-03	10759	-0.17	8.26E-04	14262	0.08	1.96E-03
8464	0.10	5.89E-05	10763	-0.32	6.07E-07	14273	-0.18	5.69E-09
8465	-0.10	6.40E-04	10769	-0.15	8.25E-07	14284	-0.15	6.70E-03
8466	0.20	2.43E-10	10775	-0.13	2.01E-06	14296	-0.15	6.96E-08
8467	0.20	6.47E-10	10777	0.18	5.67E-04	14301	0.15	6.03E-10
8476	-0.10	7.90E-04	10778	0.21	2.76E-15	14306	0.13	1.12E-05
8477	-0.10	6.05E-04	10791	-0.11	4.19E-04	14307	0.16	3.65E-09
8478	-0.10	1.00E-03	10793	0.12	3.06E-04	14310	-0.09	2.41E-03
8484	-0.20	6.07E-07	10798	0.13	6.83E-07	14313	0.09	8.85E-04
8486	0.10	2.24E-03	10811	-0.25	2.54E-04	14330	-0.12	6.16E-06
8489	-0.20	2.60E-06	10813	0.16	1.46E-06	14334	-0.10	4.38E-04

8490	-0.30	3.38E-05	10818	-0.09	2.10E-03	14342	0.11	2.08E-03
8503	-0.20	2.33E-05	10828	-0.11	2.48E-04	14371	-0.13	1.26E-03
8515	0.20	4.08E-09	10837	0.12	2.48E-05	14379	-0.25	2.79E-05
8520	-0.20	8.39E-05	10838	0.16	1.22E-08	14380	0.12	2.30E-05
8530	0.10	7.25E-03	10839	-0.15	5.12E-03	14381	-0.22	1.96E-08
8532	-0.20	6.62E-07	10842	0.11	2.73E-03	14389	-0.08	2.76E-03
8537	-0.10	3.56E-03	10854	-0.21	1.81E-05	14390	0.15	1.26E-06
8541	0.20	6.65E-06	10857	0.10	7.13E-04	14391	-0.11	2.57E-04
8547	-0.20	2.16E-04	10865	0.08	6.01E-03	14397	0.08	9.07E-03
8548	-0.40	2.90E-07	10866	0.10	3.36E-03	14406	-0.13	3.10E-03
8550	-0.10	1.06E-03	10872	-0.26	2.37E-13	14414	0.08	1.13E-05
8557	-0.30	8.25E-07	10875	-0.13	5.51E-05	14426	-0.14	1.82E-05
8559	0.10	4.21E-07	10888	-0.24	3.00E-10	14430	0.07	9.53E-03
8560	0.20	6.22E-11	10891	-0.14	1.65E-04	14441	0.08	1.56E-03
8563	0.10	6.10E-03	10895	-0.09	4.27E-03	14447	0.28	1.55E-06
8576	-0.20	6.98E-08	10897	0.22	1.51E-03	14448	-0.20	1.36E-09
8578	0.20	4.71E-06	10898	0.19	2.06E-03	14451	0.09	6.29E-03
8580	-0.10	5.04E-04	10902	0.18	1.31E-10	14463	0.12	3.02E-05
8582	0.10	4.90E-03	10913	-0.13	1.92E-06	14474	-0.10	3.74E-03
8585	0.20	1.01E-05	10923	-0.15	4.67E-04	14476	0.17	2.68E-06
8589	-0.20	1.70E-06	10924	0.13	3.86E-06	14479	-0.12	4.02E-05
8592	-0.20	2.11E-05	10926	-0.24	2.12E-05	14484	0.16	1.57E-09
8593	-0.20	2.28E-07	10934	-0.10	4.62E-03	14487	0.12	2.20E-03
8598	-0.20	2.84E-08	10943	-0.18	3.44E-04	14498	-0.18	2.60E-06
8599	-0.10	7.26E-03	10948	-0.09	5.98E-03	14504	-0.23	3.82E-05
8611	-0.10	1.52E-03	10952	0.17	1.97E-09	14507	0.10	4.40E-04
8613	-0.10	2.09E-03	10965	0.15	2.74E-07	14508	-0.08	5.63E-03
8614	-0.10	4.16E-05	10973	-0.24	5.88E-04	14509	0.08	8.13E-03
8617	0.10	1.31E-03	10977	-0.13	1.01E-04	14523	0.21	1.35E-13
8624	0.10	2.89E-03	10980	0.21	1.10E-15	14524	-0.21	7.22E-08
8627	-0.20	9.27E-10	10983	-0.11	1.40E-04	14525	-0.17	4.80E-03
8642	-0.10	4.30E-03	10985	-0.13	4.05E-06	14535	-0.10	1.12E-03
8644	-0.10	2.79E-03	10987	-0.25	1.27E-08	14555	0.11	1.08E-04
8647	-0.20	1.69E-06	10991	0.12	5.85E-05	14560	-0.17	1.71E-06
8650	-0.20	7.71E-07	10992	-0.15	3.41E-06	14572	0.11	1.57E-03
8651	-0.10	1.03E-03	10995	-0.14	2.27E-04	14582	0.21	3.89E-14
8654	0.20	2.08E-06	11000	-0.13	3.39E-03	14586	-0.10	5.68E-03

8658	-0.10	2.38E-03	11012	-0.15	2.64E-06	14592	-0.11	7.07E-03
8659	-0.20	5.54E-05	11027	-0.17	6.95E-04	14603	0.11	7.78E-05
8662	-0.40	1.50E-04	11029	0.20	4.34E-11	14612	-0.24	4.27E-18
8664	0.10	5.55E-07	11036	-0.19	5.20E-07	14616	-0.11	7.84E-03
8668	-0.10	9.57E-03	11038	-0.10	3.28E-04	14623	0.17	6.09E-07
8676	-0.20	6.87E-11	11040	-0.10	9.73E-04	14626	-0.14	3.74E-06
8679	0.10	1.61E-03	11048	-0.31	4.01E-08	14628	-0.14	2.02E-08
8683	-0.20	3.75E-08	11058	0.10	4.68E-03	14631	-0.13	1.47E-06
8686	0.10	1.33E-04	11075	0.18	9.18E-05	14635	0.15	7.15E-03
8688	-0.10	1.79E-04	11082	-0.08	9.06E-03	14651	0.10	3.71E-04
8689	0.10	4.92E-03	11086	-0.15	1.25E-04	14654	0.12	3.40E-05
8690	-0.10	8.50E-04	11088	0.23	4.04E-17	14658	0.10	5.49E-06
8692	-0.20	1.40E-05	11090	0.16	1.20E-05	14661	-0.09	3.93E-03
8693	-0.30	2.32E-11	11094	0.12	4.38E-04	14668	-0.21	9.83E-07
8699	0.10	8.45E-05	11096	0.23	2.33E-07	14695	-0.22	1.14E-11
8700	0.20	1.27E-14	11097	-0.10	8.02E-04	14696	0.15	3.63E-03
8702	0.10	3.40E-03	11101	0.13	6.97E-06	14697	-0.17	4.30E-08
8704	-0.10	1.18E-03	11102	0.15	2.60E-08	14698	-0.17	1.99E-07
8705	-0.20	4.90E-03	11103	0.10	1.57E-04	14699	0.11	2.95E-05
8707	-0.30	3.39E-06	11107	-0.11	3.35E-04	14700	-0.18	3.78E-11
8708	-0.30	3.21E-06	11108	-0.08	9.51E-03	14701	-0.13	2.13E-03
8710	-0.30	8.00E-10	11110	-0.15	4.40E-04	14705	-0.17	1.86E-05
8712	-0.20	3.66E-07	11115	-0.11	6.89E-03	14734	-0.26	1.09E-14
8713	-0.20	6.89E-04	11117	0.16	1.44E-03	14738	-0.31	2.62E-07
8715	-0.10	3.78E-06	11120	0.09	7.48E-03	14739	0.21	2.09E-14
8724	0.10	4.20E-03	11127	-0.09	2.17E-03	14773	-0.15	8.06E-05
8725	0.10	5.64E-03	11130	-0.15	1.39E-05	14777	-0.08	6.34E-03
8728	-0.40	1.04E-26	11132	0.12	5.81E-04	14778	0.10	2.35E-04
8729	-0.20	3.93E-03	11139	-0.11	1.62E-04	14781	-0.25	3.39E-05
8733	-0.20	7.79E-08	11143	-0.09	2.45E-03	14783	0.20	7.80E-13
8735	0.10	3.29E-03	11151	0.16	4.18E-05	14790	-0.19	2.57E-03
8740	0.20	2.69E-16	11153	-0.22	3.03E-14	14801	-0.12	2.58E-05
8744	-0.20	1.78E-13	11157	-0.11	1.88E-03	14806	-0.26	5.63E-06
8745	-0.10	3.92E-05	11159	0.17	1.61E-10	14817	-0.28	1.55E-10
8747	0.10	7.98E-08	11166	-0.20	2.40E-12	14839	-0.17	1.52E-08
8754	0.10	5.28E-04	11172	-0.20	1.07E-11	14872	-0.26	9.29E-05
8757	-0.20	4.39E-16	11173	0.18	6.39E-11	14873	-0.09	2.17E-03
8759	-0.30	7.13E-04	11174	0.16	1.75E-08	14884	-0.09	2.25E-03

8763	0.10	1.23E-04	11180	0.12	8.80E-05	14886	0.18	6.01E-12
8764	-0.20	4.29E-03	11181	-0.30	2.54E-08	14899	0.10	3.30E-03
8766	0.10	8.98E-05	11182	0.11	2.69E-05	14904	0.15	1.50E-08
8767	-0.20	1.39E-07	11184	0.19	4.09E-11	14909	-0.08	6.13E-03
8773	-0.20	4.33E-15	11188	0.15	4.50E-07	14915	0.18	4.64E-11
8774	0.10	8.85E-05	11196	0.15	3.05E-08	14937	0.12	6.51E-06
8780	0.10	6.43E-05	11199	0.08	3.33E-03	14938	0.22	1.57E-04
8782	0.20	1.87E-07	11202	-0.12	1.88E-05	14944	-0.18	2.07E-03
8789	-0.20	3.03E-03	11210	0.16	8.66E-04	14948	0.11	3.06E-04
8792	-0.20	1.86E-06	11216	-0.12	7.39E-03	14953	-0.10	1.18E-03
8797	-0.10	2.36E-06	11217	-0.13	3.17E-03	14966	-0.17	3.41E-09
8800	0.20	8.64E-08	11224	0.10	1.92E-03	14971	-0.15	2.58E-03
8801	-0.20	2.14E-04	11233	-0.10	3.74E-03	14972	0.18	9.52E-12
8805	-0.20	1.79E-09	11236	-0.14	2.05E-03	14973	0.14	9.03E-06
8810	-0.20	2.37E-10	11244	0.09	1.22E-03	14974	-0.20	9.35E-09
8814	-0.10	7.03E-03	11251	0.09	1.02E-03	14983	-0.24	4.35E-05
8822	-0.10	9.66E-04	11254	-0.10	4.08E-06	14996	-0.09	1.65E-03
8824	-0.30	8.39E-13	11272	0.08	4.64E-03	14999	-0.27	1.94E-03
8825	-0.10	1.00E-03	11284	-0.22	9.60E-13	15003	-0.10	8.56E-04
8834	0.10	1.84E-03	11290	-0.19	1.02E-10	15008	-0.19	2.37E-06
8838	-0.10	8.59E-05	11291	-0.16	1.12E-05	15012	-0.59	2.40E-07
8839	-0.40	7.09E-12	11292	0.22	1.54E-14	15017	-0.15	7.16E-03
8840	0.10	4.65E-05	11294	-0.16	1.05E-04	15018	-0.07	8.77E-03
8848	-0.20	1.40E-16	11301	0.08	4.43E-03	15042	-0.24	1.67E-07
8849	-0.40	3.36E-10	11305	0.09	8.09E-03	15047	-0.16	1.73E-06
8851	-0.10	6.60E-04	11306	-0.18	5.58E-11	15048	0.17	1.90E-06
8854	-0.20	3.85E-03	11311	-0.19	1.05E-08	15050	-0.16	6.85E-06
8855	-0.10	1.36E-06	11312	0.15	7.36E-07	15060	-0.23	2.04E-14
8857	0.10	7.43E-03	11314	-0.18	8.21E-10	15062	-0.32	5.67E-04
8860	-0.30	1.62E-03	11315	0.09	8.30E-03	15084	-0.25	3.85E-03
8861	-0.10	6.92E-04	11316	-0.12	2.85E-04	15086	-0.19	1.53E-09
8865	-0.20	4.44E-07	11321	-0.21	3.33E-11	15088	0.09	6.14E-03
8866	-0.10	1.39E-03	11323	-0.20	1.71E-06	15104	0.15	5.79E-07
8867	0.10	8.73E-04	11337	0.08	2.28E-03	15113	-0.19	6.99E-05
8880	-0.10	2.80E-03	11340	0.11	3.02E-05	15115	-0.16	6.55E-07
8883	-0.25	5.02E-03	11343	0.13	6.11E-06	15128	0.11	2.22E-05
8888	0.09	5.66E-04	11344	0.14	9.92E-08	15131	-0.08	5.83E-03

8893	0.14	1.83E-07	11345	0.10	1.83E-03	15133	-0.28	1.51E-04
8899	-0.08	5.23E-03	11348	-0.17	9.75E-04	15149	0.21	1.29E-05
8904	-0.10	3.38E-03	11352	0.08	6.65E-03	15162	-0.08	8.73E-03
8908	-0.24	1.15E-18	11355	-0.16	1.89E-04	15164	0.10	2.90E-04
8910	0.17	5.27E-10	11359	-0.10	3.66E-04	15168	-0.08	7.37E-03
8914	0.13	1.40E-04	11360	0.12	1.36E-04	15182	0.12	3.39E-05
8915	-0.12	1.01E-03	11362	-0.18	2.91E-03	15184	-0.23	1.83E-14
8916	-0.11	1.31E-03	11374	-0.10	2.42E-04	15187	-0.25	3.25E-05
8919	-0.12	5.66E-04	11375	-0.11	5.88E-03	15188	-0.16	7.20E-06
8922	-0.21	1.60E-15	11382	-0.20	2.60E-12	15192	-0.13	1.45E-03
8927	-0.08	6.98E-03	11384	-0.11	4.73E-04	15204	-0.11	1.47E-03
8928	-0.08	8.88E-03	11386	-0.26	2.30E-09	15206	0.14	9.58E-07
8934	-0.11	1.98E-03	11390	-0.15	5.77E-06	15209	-0.14	1.12E-06
8938	-0.08	8.25E-04	11396	0.15	6.59E-08	15211	-0.20	2.53E-09
8946	-0.19	5.38E-04	11400	0.12	2.70E-04	15238	-0.12	2.14E-04
8952	0.18	3.97E-08	11406	0.08	8.32E-03	15239	0.31	3.77E-22
8954	0.20	1.09E-12	11408	-0.16	3.84E-06	15241	0.08	4.19E-03
8957	0.08	6.62E-03	11415	-0.23	1.71E-03	15243	-0.12	5.48E-03
8959	-0.11	4.72E-03	11422	-0.10	3.62E-03	15244	-0.25	1.30E-06
8960	-0.10	4.74E-04	11425	-0.13	1.92E-05	15245	0.09	7.61E-04
8963	-0.17	4.06E-04	11431	-0.12	1.12E-05	15252	0.14	8.61E-06
8965	-0.09	1.26E-03	11433	0.11	3.30E-03	15260	-0.22	3.65E-11
8967	0.15	9.23E-04	11437	0.12	1.96E-03	15281	-0.09	3.14E-03
8968	0.17	3.62E-06	11439	0.18	1.04E-04	15291	0.24	5.89E-14
8969	-0.12	3.53E-03	11440	-0.21	6.19E-05	15293	-0.13	3.32E-05
8970	-0.10	7.00E-05	11444	0.10	2.18E-03	15309	0.08	5.10E-03
8977	0.21	1.89E-11	11446	0.08	8.65E-03	15320	-0.27	6.83E-06
8979	0.11	2.76E-04	11447	-0.17	2.67E-05	15327	-0.24	1.17E-06
8980	-0.12	3.58E-05	11462	0.11	7.78E-04	15328	-0.26	3.21E-03
8981	-0.23	1.99E-12	11468	-0.26	1.15E-04	15331	-0.22	1.79E-09
8985	-0.40	1.08E-07	11471	0.16	2.84E-09	15333	0.13	4.16E-06
8987	-0.12	7.88E-05	11475	0.17	1.01E-09	15339	-0.21	2.19E-05
8997	0.08	4.69E-03	11485	-0.17	1.85E-05	15340	-0.09	3.91E-03
9000	-0.14	4.58E-04	11489	0.22	4.01E-06	15342	0.09	9.99E-03
9003	0.24	2.62E-17	11492	-0.18	9.02E-10	15348	-0.09	2.85E-04
9006	0.18	1.10E-10	11496	-0.12	7.71E-05	15351	0.10	6.75E-04
9007	-0.12	1.54E-03	11497	0.21	2.85E-12	15354	-0.10	8.99E-03
9010	-0.14	1.35E-07	11499	0.08	6.82E-03	15368	-0.18	7.92E-09

9011	0.12	1.37E-05	11500	0.18	6.78E-06	87	-0.04	5.00E-02
9013	-0.20	5.41E-09	11501	0.11	7.23E-05	453	-0.05	5.00E-02
9022	0.13	1.85E-03	11502	-0.13	5.89E-03	622	-0.04	5.00E-02
9027	-0.14	1.24E-05	11503	-0.13	4.64E-03	988	0.04	5.00E-02
9040	-0.11	1.21E-04	11511	0.12	6.08E-03	1416	0.05	5.00E-02
9043	-0.32	3.51E-09	11512	0.14	1.50E-03	2258	-0.13	5.00E-02
9046	-0.17	8.15E-06	11513	0.09	7.26E-03	2658	-0.16	5.00E-02
9049	-0.19	1.16E-03	11547	0.10	5.68E-04	2856	0.40	5.00E-02
9050	-0.16	5.32E-06	11548	0.09	3.23E-03	2875	0.09	5.00E-02
9055	-0.12	6.88E-04	11549	-0.16	1.84E-04	2972	-0.05	5.00E-02
9057	-0.09	2.61E-04	11555	-0.17	9.72E-08	2985	-0.11	5.00E-02
9059	-0.21	1.07E-06	11556	0.16	1.64E-08	3054	0.33	5.00E-02
9070	0.23	9.37E-06	11560	-0.09	3.11E-03	3224	-0.05	5.00E-02
9072	0.07	8.93E-03	11574	-0.23	5.51E-05	3494	-0.05	5.00E-02
9074	0.13	8.44E-05	11582	0.09	1.25E-04	3504	0.05	5.00E-02
9077	0.12	4.35E-04	11588	0.08	5.35E-03	3767	0.08	5.00E-02
9081	0.08	5.08E-03	11589	0.11	2.33E-03	4161	-0.03	5.00E-02
9084	-0.12	1.26E-03	11594	0.14	4.02E-07	4392	-0.06	5.00E-02
9087	-0.10	9.51E-05	11595	-0.16	1.94E-06	4587	-0.05	5.00E-02
9089	-0.09	8.47E-03	11602	0.09	4.50E-03	4590	0.07	5.00E-02
9093	0.12	3.40E-04	11605	-0.25	1.49E-18	4933	-0.05	5.00E-02
9094	0.10	4.38E-03	11610	-0.08	6.67E-03	5040	0.02	5.00E-02
9095	-0.21	2.04E-03	11613	0.10	2.16E-04	5582	0.49	5.00E-02
9099	-0.11	3.36E-03	11618	0.16	2.02E-08	5864	-0.04	5.00E-02
9101	0.27	1.93E-23	11619	0.13	3.94E-06	6023	-0.06	5.00E-02
9103	0.14	1.43E-04	11631	0.12	2.47E-06	6251	-0.04	5.00E-02
9106	-0.21	1.31E-03	11636	0.16	2.52E-08	6399	-0.04	5.00E-02
9110	-0.18	3.75E-04	11638	0.12	8.29E-04	6767	0.05	5.00E-02
9125	-0.20	2.00E-03	11639	-0.12	4.53E-04	6905	-0.04	5.00E-02
9127	-0.12	7.85E-05	11641	0.10	1.53E-03	7382	-0.06	5.00E-02
9129	0.19	9.69E-13	11647	-0.40	9.15E-08	7389	0.27	5.00E-02
9132	-0.14	1.52E-06	11649	-0.18	5.81E-11	7610	0.06	5.00E-02
9134	-0.24	4.43E-03	11652	-0.24	2.25E-06	7628	0.07	5.00E-02
9136	-0.18	9.17E-03	11656	-0.16	6.46E-04	7741	-0.07	5.00E-02
9138	0.26	7.23E-21	11684	0.09	5.28E-03	7803	-0.03	5.00E-02
9142	0.12	2.10E-05	11692	-0.27	1.70E-05	7855	0.21	5.00E-02
9154	-0.19	8.74E-04	11701	-0.14	3.09E-05	7870	0.03	5.00E-02

9161	-0.11	1.55E-04	11714	-0.15	1.59E-05	7880	-0.05	5.00E-02
9165	0.11	1.23E-08	11717	-0.08	2.33E-03	7991	0.06	5.00E-02
9166	-0.10	7.99E-04	11719	-0.18	7.98E-07	8005	0.05	5.00E-02
9178	-0.13	2.78E-04	11726	0.10	1.76E-04	8057	0.05	5.00E-02
9179	-0.13	2.66E-04	11728	-0.15	6.74E-04	9169	-0.08	5.00E-02
9182	-0.08	4.11E-03	11754	-0.10	7.22E-03	9759	0.04	5.00E-02
9183	-0.14	8.17E-08	11756	0.15	2.42E-07	10016	-0.04	5.00E-02
9184	0.17	9.43E-10	11757	-0.14	3.73E-05	10783	-0.15	5.00E-02
9187	-0.10	2.22E-05	11760	0.09	5.05E-03	10826	0.09	5.00E-02
9188	0.08	3.26E-03	11771	0.13	9.19E-07	10860	0.10	5.00E-02
9191	-0.08	7.21E-03	11788	-0.15	2.11E-03	10988	-0.07	5.00E-02
9192	-0.14	2.79E-06	11803	-0.13	3.50E-04	11376	0.40	5.00E-02
9200	-0.16	5.86E-06	11809	-0.09	8.55E-03	11711	0.17	5.00E-02
9201	0.16	2.21E-07	11818	-0.14	2.32E-03	11828	0.06	5.00E-02
9208	-0.24	1.26E-07	11825	0.14	1.09E-06	11835	0.05	5.00E-02
9213	0.16	2.03E-07	11844	0.12	4.40E-06	12116	-0.03	5.00E-02
9217	0.13	1.24E-03	11847	0.11	1.46E-04	12255	-0.03	5.00E-02
9224	-0.11	2.52E-03	11856	0.12	1.02E-05	12669	0.04	5.00E-02
9227	-0.17	6.40E-09	11864	0.07	6.23E-03	12982	-0.32	5.00E-02
9228	0.10	3.08E-04	11874	0.19	5.06E-03	13159	-0.33	5.00E-02
9235	-0.16	1.07E-05	11887	-0.13	2.24E-05	13731	-0.32	5.00E-02
9237	-0.07	6.30E-03	11888	-0.16	1.10E-03	13753	0.31	5.00E-02
9244	-0.08	7.65E-03	11890	-0.14	1.03E-07	13807	0.04	5.00E-02
9246	0.16	5.30E-09	11897	0.12	6.03E-05	14013	-0.35	5.00E-02
9248	0.22	3.59E-14	11898	-0.11	2.83E-04	14022	0.10	5.00E-02
9250	-0.22	8.83E-04	11899	-0.09	5.34E-03	14320	0.04	5.00E-02
9260	-0.18	5.37E-09	11900	-0.25	1.17E-09	14545	0.03	5.00E-02
9261	0.06	2.83E-03	11901	0.12	6.43E-06	14585	0.15	5.00E-02
9265	0.13	7.57E-03	11902	-0.21	9.48E-04	14745	-0.03	5.00E-02
9266	-0.24	1.74E-10	11903	0.13	6.45E-05	14863	-0.33	5.00E-02
9269	-0.09	2.90E-03	11906	-0.10	6.16E-03	14870	0.32	5.00E-02
9275	-0.11	7.39E-04	11918	0.14	2.89E-06	15010	0.22	5.00E-02
9276	-0.13	1.01E-03	11920	0.13	2.15E-05	15118	-0.17	5.00E-02
9281	-0.24	2.64E-16	11929	0.11	8.65E-08	15249	0.17	5.00E-02
9285	0.09	2.58E-03	11932	-0.11	3.26E-03	15346	0.10	5.00E-02
9288	-0.15	2.06E-07	11943	0.20	5.24E-06	15364	0.03	5.00E-02
9289	-0.17	5.88E-04	11959	0.14	3.83E-05			

9290	-0.07	7.96E-03	11961	-0.15	4.24E-08
9293	-0.14	7.25E-06	11972	-0.28	1.76E-04
9294	-0.14	6.13E-06	11976	-0.20	7.83E-06
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-0.12	-0.12	-0.12
0.14	0.14	0.14
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0.13	0.13	0.13
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0.07	0.07	0.07
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-0.26	-0.26	-0.26
-0.14	-0.14	-0.14
-0.15	-0.15	-0.15
-0.09	-0.09	-0.09
0.10	0.10	0.10
-0.19	-0.19	-0.19
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0.09	0.09	0.09
-0.07	-0.07	-0.07
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0.07	0.07	0.07
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-0.12	-0.12	-0.12

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A	B	C
6619	0.10	6.73E-06
6629	-0.10	2.35E-05
6634	-0.10	9.46E-03
6638	0.10	1.02E-03
6639	-0.10	1.99E-03
6651	0.10	2.94E-03
6669	-0.10	4.24E-03
6671	0.10	2.28E-03
6676	0.20	6.19E-11
6681	-0.10	5.33E-08
6684	0.10	3.42E-07
6689	-0.10	3.70E-05
6690	0.20	1.23E-07
6696	-0.20	9.74E-04
6697	-0.10	5.64E-04
6706	0.10	6.77E-06
6711	0.20	8.18E-07
6712	-0.10	3.95E-04
6715	0.10	3.06E-05
6720	-0.10	1.78E-06
6725	0.10	1.41E-03
6736	-0.10	2.86E-04
6739	-0.10	4.67E-04
6742	-0.20	1.55E-06
6752	-0.10	1.29E-04
6757	0.10	2.03E-04
6774	0.10	9.45E-03
6776	-0.10	1.74E-06
6780	0.10	1.72E-03
6785	0.10	2.62E-04
6786	0.10	4.55E-04
6806	-0.10	4.93E-04
6810	0.10	4.16E-03
6818	0.10	2.93E-10
6819	0.10	7.95E-03
6820	0.10	1.35E-03
6821	0.10	2.99E-03
6822	0.10	3.60E-03
6823	0.10	3.24E-03
6839	-0.10	2.62E-03
6843	0.10	3.28E-06
6844	0.10	3.89E-04
6849	0.10	4.96E-03
6856	0.10	9.54E-03
6859	-0.10	7.92E-03
6864	0.10	3.89E-07

A	B	C
8922	0.10	5.30E-08
8923	0.10	7.64E-05
8924	0.10	7.69E-05
8927	0.10	2.32E-08
8931	-0.10	4.09E-03
8934	0.10	4.61E-04
8948	-0.10	1.75E-05
8950	0.10	1.08E-03
8955	0.10	7.95E-03
8959	0.20	2.27E-07
8966	-0.10	5.25E-05
8977	-0.10	1.48E-04
8979	-0.10	7.50E-03
8981	0.10	1.99E-10
8992	0.10	5.18E-03
8993	0.10	4.77E-03
9002	0.10	2.39E-04
9005	-0.10	1.91E-03
9006	-0.10	3.98E-03
9011	-0.10	2.00E-06
9013	-0.10	2.75E-03
9019	0.10	2.77E-04
9020	0.10	1.81E-04
9041	0.10	3.25E-04
9046	0.10	2.66E-03
9052	-0.10	4.81E-03
9054	0.10	1.29E-05
9056	-0.10	1.49E-08
9070	-0.10	6.96E-04
9074	-0.10	2.30E-04
9077	-0.10	2.33E-06
9081	-0.20	2.22E-12
9089	0.10	7.48E-03
9096	-0.10	6.80E-04
9101	-0.10	9.19E-06
9108	-0.20	3.90E-07
9111	-0.10	2.37E-04
9123	-0.20	5.33E-11
9129	-0.10	5.68E-04
9133	-0.10	9.62E-03
9134	0.10	5.79E-03
9166	0.10	2.37E-04
9167	-0.10	2.23E-03
9168	-0.10	2.64E-03
9178	0.10	2.71E-04
9179	0.10	1.62E-04

A	B	C
11369	0.10	3.80E-05
11374	0.10	6.54E-03
11383	0.10	7.67E-08
11406	-0.10	3.03E-04
11410	0.10	2.61E-03
11417	0.10	3.98E-04
11437	-0.10	6.11E-05
11456	-0.10	1.44E-05
11462	-0.10	2.17E-04
11467	0.10	3.99E-03
11468	-0.10	5.21E-03
11472	-0.10	4.99E-08
11488	-0.10	5.67E-03
11501	-0.10	1.03E-07
11510	0.10	1.71E-07
11533	-0.10	2.57E-04
11553	-0.10	5.52E-03
11560	0.10	1.44E-07
11577	-0.20	1.85E-12
11582	-0.10	4.50E-03
11593	-0.20	1.62E-07
11594	-0.10	2.00E-04
11608	0.10	3.02E-03
11610	0.10	2.76E-08
11612	0.10	6.83E-04
11621	0.10	6.22E-06
11622	-0.10	5.39E-04
11623	-0.10	1.45E-03
11638	0.10	2.21E-04
11664	0.10	7.02E-03
11665	0.10	1.25E-04
11666	0.20	3.64E-11
11673	0.10	3.21E-05
11682	-0.10	2.28E-04
11692	0.10	1.38E-03
11701	0.10	3.01E-05
11704	0.10	7.94E-03
11714	0.10	8.96E-04
11719	0.10	7.45E-03
11743	-0.10	2.69E-07
11756	0.10	6.92E-05
11757	0.10	4.43E-03
11758	0.10	5.03E-04
11767	0.10	3.84E-03
11769	-0.10	2.12E-03
11791	0.20	9.43E-07

6867	0.10	1.84E-03	9180	0.10	4.10E-04	11825	-0.10	7.54E-08
6871	0.10	4.31E-08	9192	0.10	8.42E-03	11843	0.10	7.84E-04
6879	-0.10	2.78E-03	9194	-0.10	7.78E-03	11858	-0.10	9.56E-03
6889	-0.10	4.35E-05	9195	0.20	1.56E-05	11861	0.10	9.07E-03
6899	-0.10	3.56E-03	9199	-0.10	3.86E-03	11875	0.20	7.00E-08
6906	0.10	2.46E-04	9200	-0.10	6.21E-04	11888	0.10	9.97E-04
6907	0.10	1.94E-04	9207	0.10	4.70E-03	11890	0.10	2.20E-03
6919	-0.10	5.51E-03	9210	-0.10	5.36E-05	11892	0.10	1.31E-06
6929	0.10	8.99E-03	9213	-0.20	1.80E-08	11900	0.10	1.95E-04
6936	0.10	4.10E-03	9216	-0.10	4.73E-06	11901	-0.10	8.43E-03
6937	-0.20	2.09E-05	9225	-0.10	2.55E-03	11902	0.10	3.15E-03
6945	-0.10	1.44E-04	9227	0.10	5.08E-06	11905	-0.10	7.05E-03
6955	-0.20	5.67E-03	9229	0.20	4.98E-09	11911	-0.10	3.08E-03
6960	0.10	4.79E-03	9231	-0.10	5.28E-03	11912	-0.10	3.59E-04
6969	-0.10	1.55E-04	9235	0.10	1.99E-03	11915	-0.10	8.51E-04
6985	0.10	8.37E-03	9239	-0.10	7.90E-05	11935	-0.10	3.63E-08
6990	-0.10	1.76E-03	9246	-0.10	2.93E-03	11939	-0.10	3.20E-03
6996	-0.10	9.77E-05	9251	-0.10	6.45E-03	11940	0.10	5.00E-04
6998	0.10	2.21E-05	9257	-0.10	6.15E-05	11950	0.10	1.23E-05
7001	0.20	8.64E-03	9258	0.20	7.39E-09	11958	-0.10	3.99E-04
7013	0.10	1.49E-03	9261	0.10	1.91E-04	11959	0.10	3.31E-03
7020	-0.20	2.65E-10	9272	-0.10	6.39E-04	11960	-0.10	2.95E-04
7021	0.20	4.00E-09	9275	-0.10	6.84E-03	11966	-0.10	3.67E-03
7027	0.10	1.15E-04	9276	0.10	4.72E-03	11967	0.10	1.42E-04
7041	-0.20	8.06E-05	9280	-0.10	5.17E-06	11998	-0.10	4.82E-04
7048	-0.10	2.49E-03	9289	0.10	6.98E-03	12011	0.10	9.95E-03
7054	-0.10	6.58E-05	9290	0.10	7.68E-03	12012	0.10	1.29E-03
7059	-0.10	4.95E-05	9301	0.10	4.84E-04	12022	0.20	1.29E-06
7063	-0.10	1.26E-03	9302	-0.10	6.46E-03	12030	0.10	2.46E-06
7064	-0.10	3.30E-04	9310	0.10	7.39E-03	12032	-0.10	5.38E-03
7066	-0.10	6.72E-04	9313	-0.10	9.75E-03	12039	-0.10	8.39E-03
7074	-0.10	2.93E-06	9319	-0.10	2.24E-06	12045	0.10	9.25E-03
7079	-0.10	8.31E-03	9329	0.10	1.22E-04	12046	0.10	1.20E-06
7082	-0.10	2.47E-05	9332	0.10	2.03E-04	12052	-0.20	1.01E-04
7085	0.10	1.60E-04	9335	-0.10	1.57E-03	12062	-0.20	4.79E-04
7087	-0.10	7.20E-08	9341	0.10	1.21E-04	12064	-0.10	1.90E-03
7095	-0.10	5.29E-04	9342	0.10	1.85E-05	12065	0.10	1.38E-03
7104	-0.20	2.24E-03	9361	-0.10	7.49E-04	12066	-0.10	6.00E-05
7107	0.10	5.71E-03	9368	-0.10	2.16E-03	12071	0.10	2.50E-03
7114	-0.10	7.97E-04	9371	0.10	3.00E-05	12072	0.10	8.78E-03
7118	-0.10	3.94E-04	9373	-0.20	3.74E-10	12081	-0.10	1.06E-04
7123	-0.10	2.49E-06	9376	-0.10	3.20E-04	12093	0.10	2.75E-05
7130	-0.20	8.88E-07	9378	-0.10	2.64E-03	12115	-0.20	3.43E-05
7133	-0.10	9.01E-03	9379	-0.10	7.72E-03	12118	0.10	9.11E-03
7139	0.10	2.98E-03	9383	0.10	5.40E-06	12132	-0.10	8.62E-04
7142	-0.10	2.24E-06	9386	-0.10	1.27E-04	12137	0.10	6.39E-04
7145	-0.20	1.04E-11	9389	0.10	7.33E-07	12147	0.10	8.93E-03
7150	-0.10	7.02E-03	9397	0.10	8.03E-03	12154	0.20	1.97E-13

7151	-0.10	7.03E-03	9398	-0.10	1.66E-03	12166	0.10	4.74E-06
7170	-0.10	6.41E-04	9401	0.10	8.33E-03	12173	0.10	4.27E-03
7172	-0.10	1.92E-04	9420	0.10	2.30E-03	12174	0.10	1.63E-03
7174	-0.10	6.68E-03	9421	0.10	1.50E-06	12177	-0.10	2.55E-05
7180	0.10	6.37E-04	9423	0.10	2.78E-03	12186	-0.10	3.29E-04
7182	0.20	3.39E-12	9424	0.10	8.55E-04	12194	0.20	1.54E-07
7184	0.10	3.86E-04	9432	0.10	2.71E-04	12208	-0.10	1.07E-06
7185	-0.10	1.40E-03	9433	-0.20	1.85E-06	12210	-0.10	1.15E-03
7186	-0.10	7.46E-03	9437	0.20	1.00E-03	12215	0.10	4.40E-03
7196	0.10	1.70E-09	9449	-0.10	3.62E-03	12219	0.10	2.40E-03
7200	0.10	1.10E-03	9462	-0.10	4.48E-07	12228	0.10	1.41E-03
7204	-0.10	1.86E-03	9464	-0.10	3.35E-04	12237	-0.20	5.06E-06
7223	0.10	9.70E-04	9479	0.10	1.62E-03	12242	0.10	7.34E-04
7225	0.20	1.48E-04	9480	-0.20	1.73E-08	12250	-0.10	1.64E-04
7227	0.10	2.07E-08	9485	0.10	7.44E-03	12273	0.10	4.15E-04
7228	0.10	1.89E-08	9486	0.20	4.65E-07	12275	-0.10	7.58E-06
7229	-0.10	4.21E-04	9509	-0.10	6.13E-03	12280	0.10	4.40E-03
7230	-0.10	6.24E-09	9529	-0.10	2.67E-03	12288	-0.10	8.80E-03
7241	0.10	1.55E-06	9553	-0.20	1.70E-14	12291	-0.10	3.43E-05
7247	0.20	1.49E-09	9554	0.10	7.58E-05	12294	0.20	1.40E-07
7251	-0.10	2.21E-03	9557	0.10	2.28E-06	12299	0.10	9.17E-03
7266	0.10	7.30E-05	9558	0.10	3.00E-06	12302	0.10	8.43E-05
7271	0.10	9.45E-05	9566	0.10	4.18E-08	12315	-0.10	3.53E-03
7272	-0.10	4.91E-04	9582	0.10	7.15E-03	12316	0.20	2.58E-04
7275	0.10	8.19E-03	9584	-0.10	1.18E-03	12325	-0.20	4.85E-06
7277	-0.10	4.76E-05	9592	0.10	6.74E-03	12327	0.10	1.71E-07
7279	-0.10	3.81E-03	9598	0.10	6.84E-07	12330	0.10	7.47E-08
7282	-0.10	4.40E-03	9605	-0.10	6.24E-05	12365	0.10	2.90E-06
7285	0.10	8.81E-03	9608	0.10	1.84E-03	12371	-0.10	4.86E-04
7286	-0.10	1.35E-04	9617	0.10	1.06E-03	12379	-0.10	5.75E-04
7294	-0.10	6.85E-04	9619	-0.10	2.08E-03	12383	0.10	1.92E-04
7307	0.10	3.56E-06	9626	-0.10	1.36E-06	12394	-0.10	1.27E-03
7308	0.10	5.32E-06	9627	0.20	3.60E-04	12401	0.10	3.42E-03
7319	0.20	1.07E-03	9628	0.20	1.61E-06	12406	0.10	6.86E-05
7321	-0.10	2.45E-03	9635	-0.10	3.73E-03	12407	0.10	2.36E-03
7329	0.20	1.58E-03	9655	-0.10	1.06E-08	12409	-0.10	8.51E-10
7331	-0.10	9.54E-03	9656	-0.10	1.60E-04	12411	-0.10	2.63E-03
7340	0.10	1.63E-05	9657	-0.10	2.42E-06	12412	-0.10	7.88E-04
7350	0.10	4.76E-03	9673	-0.10	6.00E-04	12414	0.10	2.40E-06
7351	-0.10	1.38E-03	9682	0.20	1.32E-15	12438	-0.10	7.35E-03
7352	-0.10	6.34E-04	9685	0.10	2.58E-03	12443	-0.10	3.03E-03
7361	-0.10	1.01E-04	9688	-0.10	3.59E-08	12444	0.10	8.66E-03
7362	0.10	5.08E-03	9691	-0.10	9.12E-03	12448	0.10	9.36E-03
7396	-0.10	2.44E-08	9695	0.20	3.01E-06	12454	-0.10	2.47E-03
7401	0.10	7.42E-03	9696	-0.10	5.36E-03	12458	0.10	5.51E-05
7410	-0.20	1.19E-10	9700	-0.10	6.46E-03	12469	0.10	1.77E-03
7411	-0.10	8.99E-03	9708	0.10	1.61E-03	12471	0.10	5.35E-03
7427	0.10	3.90E-05	9711	0.10	1.40E-03	12473	-0.10	9.83E-03

7441	0.10	8.31E-05
7447	0.10	1.21E-06
7451	-0.10	2.80E-04
7461	-0.20	5.73E-04
7467	0.10	7.84E-03
7468	0.10	9.08E-06
7471	0.10	4.68E-04
7481	-0.10	2.38E-05
7494	0.10	1.66E-07
7496	0.10	7.93E-04
7515	0.10	1.11E-04
7516	0.10	6.30E-05
7517	0.10	3.51E-03
7519	-0.10	1.96E-06
7533	-0.10	2.33E-03
7546	-0.10	2.09E-03
7548	0.10	8.73E-03
7560	0.10	1.25E-04
7564	0.10	4.94E-03
7565	0.10	1.10E-03
7569	0.10	2.80E-03
7573	-0.10	1.69E-03
7578	0.20	2.79E-08
7588	0.10	1.02E-03
7595	0.10	5.78E-04
7596	0.10	1.75E-04
7601	0.10	5.46E-03
7602	-0.10	3.46E-03
7604	-0.10	6.77E-03
7606	-0.10	5.10E-03
7621	0.10	4.35E-05
7635	0.10	1.37E-03
7637	-0.10	1.88E-04
7642	-0.10	7.20E-04
7644	-0.10	4.19E-04
7649	0.10	1.07E-03
7655	0.10	1.61E-04
7659	0.10	7.35E-04
7663	0.20	3.19E-03
7665	-0.10	1.21E-03
7681	0.10	1.44E-03
7689	-0.10	9.85E-05
7692	-0.10	2.68E-03
7695	0.10	8.05E-07
7703	-0.10	2.25E-05
7722	0.20	2.14E-04
7723	-0.10	2.70E-03
7726	-0.10	5.56E-03

9714	-0.10	5.77E-04
9730	0.10	6.03E-03
9738	0.10	5.69E-05
9748	0.10	8.88E-04
9749	0.10	2.07E-08
9757	0.20	2.77E-03
9760	-0.10	7.81E-04
9761	0.10	1.51E-08
9770	-0.10	4.21E-03
9773	-0.10	1.38E-05
9782	0.10	1.77E-03
9788	-0.10	2.58E-03
9789	-0.20	2.67E-06
9794	0.10	1.78E-05
9801	0.10	8.34E-03
9810	-0.10	9.80E-04
9815	-0.10	1.74E-05
9820	-0.10	9.56E-03
9823	-0.10	9.31E-03
9828	-0.10	4.17E-07
9835	0.10	6.77E-03
9837	0.10	3.18E-04
9851	0.10	1.92E-03
9859	-0.10	1.60E-03
9868	0.20	2.80E-08
9872	-0.10	5.13E-03
9874	0.10	8.50E-03
9876	-0.10	2.28E-05
9879	-0.10	8.12E-07
9886	0.10	1.51E-03
9894	0.10	5.36E-08
9908	-0.10	1.80E-06
9914	0.20	2.07E-04
9921	-0.10	4.99E-03
9929	0.20	1.93E-07
9935	0.10	2.97E-05
9956	-0.10	2.48E-03
9957	0.10	2.53E-04
9976	-0.10	3.45E-03
9977	-0.10	4.87E-03
9993	0.10	1.68E-04
9998	-0.10	6.53E-03
10000	0.10	2.28E-08
10001	-0.10	2.37E-03
10002	0.10	4.37E-04
10006	0.10	9.62E-04
10010	0.10	2.73E-03
10011	0.10	1.27E-03

12491	0.10	7.50E-05
12498	-0.10	5.40E-04
12531	0.10	8.65E-09
12532	0.10	7.92E-03
12557	0.10	5.87E-05
12563	0.10	3.37E-04
12573	0.10	7.48E-03
12581	0.10	1.76E-05
12584	-0.10	3.16E-06
12588	-0.10	5.27E-04
12595	0.10	2.87E-05
12597	0.10	6.86E-08
12599	-0.10	7.30E-05
12605	-0.10	5.47E-04
12610	0.10	1.20E-03
12611	0.10	3.38E-03
12615	0.10	4.53E-05
12617	-0.10	5.36E-06
12635	-0.10	9.17E-06
12644	0.10	1.82E-05
12652	0.10	2.61E-03
12656	0.10	1.27E-04
12664	-0.10	4.98E-03
12665	0.10	5.02E-03
12674	-0.10	1.77E-04
12677	-0.10	1.66E-03
12682	0.10	2.85E-03
12683	0.10	7.58E-04
12684	-0.10	9.86E-06
12688	-0.10	1.56E-03
12690	0.10	9.08E-03
12691	-0.10	1.83E-05
12692	-0.20	8.03E-07
12718	-0.10	4.86E-03
12720	-0.10	7.26E-04
12732	-0.10	2.87E-05
12743	-0.10	1.13E-06
12752	0.10	3.02E-04
12753	0.10	1.31E-03
12766	-0.10	2.45E-03
12773	0.10	3.85E-03
12786	0.10	1.49E-03
12798	0.10	9.34E-07
12804	0.20	2.07E-03
12814	0.20	2.82E-04
12828	0.10	8.38E-09
12840	-0.10	6.80E-03
12868	0.10	2.68E-03

7732	0.10	2.09E-05
7743	-0.10	4.73E-05
7748	0.20	3.64E-05
7750	-0.10	1.38E-04
7751	-0.10	2.51E-05
7754	-0.10	3.12E-05
7767	0.10	4.65E-06
7777	0.10	4.70E-03
7781	-0.20	1.48E-10
7792	-0.10	3.79E-04
7793	0.10	4.92E-03
7796	-0.10	3.34E-04
7797	-0.10	1.35E-04
7804	0.10	4.68E-03
7807	0.10	4.08E-03
7821	0.20	2.84E-08
7822	0.10	1.03E-09
7823	-0.10	2.63E-04
7828	0.10	1.75E-03
7841	-0.10	2.32E-04
7854	0.20	3.22E-04
7859	-0.10	7.12E-03
7861	0.10	7.73E-03
7869	0.20	1.57E-03
7872	-0.20	3.27E-05
7874	-0.10	2.46E-03
7875	0.10	4.08E-04
7886	0.10	2.15E-06
7891	0.10	6.36E-03
7895	-0.20	2.19E-03
7897	-0.10	4.68E-03
7899	0.10	3.63E-06
7911	0.10	8.26E-03
7916	-0.10	6.02E-10
7917	-0.20	1.99E-03
7930	0.10	5.72E-06
7937	0.10	1.53E-11
7942	0.10	1.50E-03
7950	0.10	9.19E-04
7951	-0.10	1.31E-06
7952	0.10	1.24E-03
7959	0.10	3.16E-04
7970	-0.10	5.85E-04
7974	-0.10	9.71E-03
7976	-0.10	1.46E-04
7981	-0.10	5.76E-07
7986	-0.10	5.59E-03
7997	-0.10	1.08E-03
8002	0.10	3.14E-06

10015	-0.10	9.84E-03
10018	-0.10	2.13E-03
10021	0.10	1.40E-03
10023	0.10	6.59E-03
10024	0.10	6.13E-06
10026	0.10	8.12E-03
10031	0.10	7.06E-03
10035	0.10	2.06E-09
10041	-0.10	2.47E-03
10047	0.10	4.43E-03
10052	-0.10	5.16E-03
10053	0.10	1.53E-05
10054	0.10	4.39E-04
10056	-0.10	7.42E-05
10061	-0.10	7.29E-04
10062	0.10	2.65E-09
10069	-0.10	2.95E-05
10081	-0.10	4.92E-08
10092	0.10	4.62E-10
10094	0.20	3.92E-05
10098	-0.10	3.69E-03
10101	-0.10	7.21E-04
10105	0.10	1.95E-05
10106	-0.20	3.70E-04
10108	0.10	1.71E-03
10120	-0.20	7.77E-06
10124	0.10	1.74E-03
10127	0.10	1.88E-03
10132	0.20	1.77E-08
10139	0.10	2.24E-05
10143	0.10	4.78E-03
10147	-0.10	4.71E-09
10150	0.10	3.13E-04
10153	0.10	1.18E-03
10156	0.20	1.12E-03
10160	-0.10	4.60E-05
10161	0.20	4.57E-07
10164	0.10	1.30E-06
10174	-0.10	3.02E-07
10175	-0.10	4.67E-07
10181	-0.10	8.67E-03
10183	0.10	5.17E-03
10187	0.20	2.52E-13
10203	0.10	8.86E-03
10208	-0.10	6.17E-08
10227	0.10	9.85E-07
10231	-0.10	2.12E-06
10240	-0.10	7.79E-04
10255	-0.10	8.28E-03

12880	-0.10	6.40E-06
12882	0.10	6.63E-04
12885	-0.10	2.60E-04
12897	0.10	1.24E-04
12898	0.10	2.65E-06
12908	0.10	8.56E-03
12917	-0.10	5.22E-06
12926	0.10	3.53E-04
12927	0.10	8.60E-05
12933	0.10	6.45E-03
12940	-0.10	4.78E-04
12946	0.10	1.49E-03
12950	-0.10	2.98E-03
12963	-0.10	4.44E-03
12964	0.10	2.94E-03
12980	-0.10	1.58E-05
12995	-0.10	7.99E-03
12996	0.10	1.18E-04
13000	0.10	3.31E-03
13002	0.10	6.98E-04
13011	0.10	9.31E-03
13014	-0.10	6.70E-03
13020	-0.10	5.24E-04
13025	0.10	4.78E-05
13038	-0.20	1.15E-03
13067	0.10	7.75E-03
13070	0.10	3.67E-03
13077	0.10	2.23E-06
13080	0.10	4.42E-03
13086	0.10	8.13E-03
13088	-0.10	1.45E-05
13089	0.10	1.44E-03
13091	-0.10	1.25E-06
13104	-0.10	3.91E-03
13107	0.10	8.73E-05
13108	-0.10	1.13E-08
13126	0.10	1.81E-06
13135	0.10	3.29E-03
13139	-0.10	3.65E-04
13142	0.10	6.73E-04
13143	-0.10	2.41E-03
13161	0.20	2.57E-12
13174	0.10	7.37E-05
13178	-0.10	1.92E-06
13184	0.10	9.33E-04
13185	-0.10	1.73E-05
13188	0.10	5.78E-06
13199	0.20	1.05E-08
13212	-0.10	2.79E-06

8006	0.10	4.90E-09	10257	-0.10	8.03E-03	13216	-0.10	1.27E-04
8007	0.20	1.78E-05	10258	0.10	4.43E-04	13217	-0.10	9.79E-07
8012	0.10	8.13E-03	10263	-0.10	2.40E-03	13230	0.10	8.65E-03
8015	-0.10	7.36E-04	10268	0.10	7.01E-04	13264	0.10	1.12E-05
8018	-0.10	2.33E-03	10269	0.10	8.59E-04	13276	-0.10	4.59E-04
8020	0.10	2.58E-03	10274	0.10	6.48E-07	13281	0.10	2.39E-06
8034	-0.20	2.87E-16	10275	-0.10	5.19E-03	13295	-0.10	9.43E-05
8035	-0.20	3.92E-16	10280	-0.10	1.86E-06	13296	-0.10	2.46E-06
8037	0.10	9.11E-06	10290	-0.10	2.00E-07	13297	-0.30	1.06E-05
8070	-0.10	3.39E-03	10291	0.10	1.54E-06	13302	-0.10	8.59E-04
8071	-0.10	4.31E-03	10312	0.10	5.37E-03	13303	-0.10	3.45E-04
8072	-0.10	4.14E-03	10317	0.10	3.28E-03	13305	0.10	6.35E-05
8074	-0.10	8.01E-04	10324	0.10	2.76E-06	13310	0.10	8.24E-06
8075	-0.10	9.03E-05	10327	0.20	8.38E-10	13313	-0.10	1.72E-04
8081	-0.10	5.10E-06	10328	-0.10	7.04E-03	13340	0.10	4.68E-05
8092	-0.10	2.68E-04	10329	0.10	8.88E-03	13361	0.10	1.21E-03
8097	-0.10	6.15E-03	10345	-0.10	2.60E-06	13363	-0.10	5.57E-04
8100	-0.10	9.85E-09	10357	0.10	9.67E-03	13378	-0.10	7.76E-03
8103	0.10	3.35E-03	10362	0.10	6.64E-05	13383	0.10	3.78E-05
8104	0.10	4.48E-03	10366	0.10	1.86E-04	13396	-0.10	3.20E-03
8111	0.10	5.78E-10	10370	-0.10	7.51E-03	13441	0.20	6.25E-16
8117	-0.10	2.03E-07	10375	0.20	1.24E-09	13447	-0.10	1.10E-03
8118	-0.10	7.61E-04	10386	0.10	9.95E-04	13466	-0.10	2.87E-03
8129	0.10	1.10E-03	10391	0.10	2.52E-03	13470	-0.10	5.64E-04
8132	0.10	5.16E-04	10399	0.10	1.03E-07	13475	-0.10	7.92E-05
8146	-0.10	1.25E-09	10402	0.10	1.98E-10	13483	0.10	1.20E-05
8147	0.10	6.62E-05	10408	0.10	3.17E-07	13486	-0.10	8.27E-04
8149	-0.10	1.68E-05	10410	0.10	7.83E-03	13495	-0.10	7.62E-04
8152	0.10	3.13E-05	10411	0.20	2.23E-05	13497	0.10	2.12E-03
8158	0.00	8.34E-03	10412	-0.10	2.10E-03	13523	-0.10	1.19E-03
8161	0.10	2.01E-04	10413	-0.10	1.39E-03	13538	0.10	2.87E-03
8167	-0.10	2.95E-03	10422	0.10	3.16E-03	13542	0.10	1.08E-05
8168	0.10	2.15E-04	10425	-0.10	4.23E-03	13551	-0.10	8.23E-03
8190	0.10	1.31E-03	10427	0.10	1.36E-03	13552	0.10	4.96E-03
8191	0.10	1.76E-04	10438	-0.10	9.99E-04	13554	0.10	2.45E-03
8194	0.10	6.83E-04	10441	-0.10	1.48E-04	13565	0.10	3.03E-03
8197	0.10	8.82E-03	10444	0.10	2.13E-04	13600	-0.10	3.47E-03
8228	-0.10	7.35E-03	10448	0.10	4.93E-03	13605	-0.10	6.90E-04
8232	-0.10	4.77E-03	10474	0.20	3.89E-09	13607	0.10	2.01E-03
8248	-0.10	4.74E-06	10482	0.10	1.17E-04	13609	-0.10	6.93E-07
8259	-0.10	4.57E-06	10488	-0.20	8.93E-09	13611	0.10	1.77E-08
8285	0.10	3.41E-03	10495	-0.10	2.40E-03	13626	0.20	7.04E-04
8286	-0.20	5.06E-04	10503	-0.10	1.61E-03	13627	0.10	6.90E-05
8287	0.10	1.41E-03	10506	0.10	8.51E-05	13629	-0.10	3.52E-04
8289	0.10	3.16E-06	10508	0.10	7.61E-03	13646	-0.10	4.08E-03
8290	0.10	3.39E-05	10512	0.10	1.79E-03	13702	0.10	1.46E-03
8304	0.10	5.69E-05	10524	0.10	4.09E-06	13712	0.10	2.46E-03
8317	-0.10	1.62E-03	10537	0.10	3.13E-05	13720	0.10	1.11E-04

8319	-0.10	1.62E-07	10555	0.10	9.55E-03	13734	0.10	1.24E-06
8335	-0.10	7.99E-03	10558	0.10	8.13E-09	13747	0.10	1.82E-06
8336	0.10	1.22E-05	10563	0.10	3.14E-03	13754	-0.10	9.22E-03
8339	-0.10	8.49E-05	10577	0.20	3.36E-05	13767	0.10	2.21E-03
8347	0.10	1.37E-03	10586	0.10	1.19E-03	13769	0.20	1.90E-04
8351	-0.10	1.10E-04	10597	0.10	1.93E-03	13772	-0.10	4.30E-04
8352	-0.10	3.96E-03	10604	0.10	5.41E-05	13775	-0.20	5.20E-05
8353	0.10	1.88E-03	10609	0.10	8.13E-04	13783	0.10	9.75E-09
8360	-0.10	5.01E-05	10612	0.10	4.06E-05	13786	-0.10	2.61E-03
8362	-0.10	5.43E-03	10627	0.20	9.77E-12	13806	0.10	9.76E-08
8367	0.10	3.01E-04	10631	-0.10	9.71E-08	13826	0.10	2.43E-03
8369	-0.10	4.84E-03	10647	-0.10	3.43E-04	13827	0.20	4.50E-13
8373	-0.10	1.08E-03	10649	0.10	1.30E-03	13831	0.10	3.43E-03
8383	-0.10	1.13E-04	10655	-0.10	4.68E-03	13834	0.10	1.56E-06
8388	0.10	2.12E-03	10667	-0.10	5.36E-04	13836	-0.20	1.11E-03
8391	0.10	2.09E-05	10681	0.10	9.13E-04	13837	-0.10	4.91E-03
8395	0.10	8.27E-04	10685	-0.20	1.81E-08	13838	-0.10	6.01E-03
8402	0.20	2.56E-07	10688	0.10	3.44E-03	13846	-0.10	8.14E-03
8406	-0.10	2.43E-04	10706	-0.10	4.67E-03	13847	0.10	1.63E-09
8415	-0.10	4.63E-07	10722	-0.10	8.03E-03	13860	0.10	6.59E-03
8418	-0.10	5.57E-03	10724	0.20	5.38E-05	13869	0.10	2.02E-06
8421	0.10	1.32E-05	10730	-0.10	5.48E-03	13885	-0.20	3.31E-08
8429	-0.10	3.84E-03	10740	-0.20	2.95E-12	13900	0.10	2.79E-04
8431	0.10	1.69E-05	10744	0.20	7.51E-07	13901	-0.10	1.85E-03
8436	0.10	2.18E-03	10746	-0.10	5.57E-04	13903	-0.10	2.48E-03
8446	0.10	2.07E-06	10773	-0.10	1.80E-05	13913	-0.10	2.27E-05
8449	-0.10	1.14E-08	10775	0.10	7.50E-07	13916	0.10	5.39E-03
8450	-0.10	9.28E-03	10799	0.10	8.38E-03	13917	0.10	2.17E-04
8460	0.10	1.50E-06	10801	0.10	4.66E-03	13919	0.10	4.42E-03
8464	-0.10	1.06E-03	10810	-0.10	2.15E-03	13930	0.10	7.68E-03
8465	-0.10	9.53E-04	10813	-0.10	6.72E-03	13951	-0.10	2.53E-06
8473	-0.20	2.28E-13	10818	-0.10	6.69E-04	13958	-0.10	2.29E-03
8480	-0.10	6.94E-05	10819	-0.10	1.09E-03	13959	0.10	1.23E-04
8485	-0.10	2.30E-03	10821	0.10	9.26E-03	13989	-0.10	1.24E-05
8506	-0.10	3.55E-03	10828	-0.10	1.53E-03	13998	-0.10	2.48E-07
8525	0.10	1.62E-04	10838	-0.10	2.59E-03	14007	0.10	5.91E-04
8532	0.10	8.55E-03	10842	-0.10	3.22E-05	14009	0.10	6.18E-07
8540	-0.10	1.68E-06	10865	-0.10	1.34E-05	14010	0.10	7.92E-07
8544	-0.10	5.81E-03	10877	-0.10	7.79E-03	14031	-0.10	2.30E-04
8546	-0.10	7.63E-04	10891	0.10	5.21E-03	14045	0.20	1.59E-03
8550	0.20	2.63E-12	10892	-0.10	3.09E-03	14052	0.10	2.10E-06
8552	-0.10	3.49E-03	10900	0.10	3.19E-09	14053	-0.10	1.44E-03
8559	-0.10	3.26E-07	10908	0.10	1.41E-03	14055	0.10	6.03E-03
8560	-0.10	8.95E-05	10911	0.10	7.01E-03	14071	0.10	1.82E-09
8566	0.10	9.36E-04	10913	0.10	8.41E-07	14079	-0.10	6.20E-03
8576	0.10	3.60E-06	10923	0.10	2.45E-03	14086	0.10	5.42E-03
8582	-0.10	6.82E-05	10924	-0.10	2.33E-03	14089	0.10	4.28E-03
8585	-0.10	7.20E-04	10929	0.20	2.32E-04	14100	-0.20	2.39E-03

8589	0.10	1.10E-03	10942	-0.10	2.07E-03	14114	0.10	3.25E-03
8596	0.20	1.94E-07	10943	0.10	8.10E-03	14116	0.10	6.87E-03
8598	0.10	8.26E-03	10944	-0.10	5.09E-04	14124	-0.10	5.94E-05
8603	-0.20	1.73E-05	10962	0.10	1.37E-04	14125	0.10	2.10E-04
8610	0.10	8.16E-04	10965	-0.10	7.86E-04	14136	-0.10	4.83E-03
8623	-0.10	4.36E-03	10974	-0.10	6.86E-04	14154	0.10	4.63E-04
8642	0.10	8.16E-03	10985	0.10	6.45E-05	14160	-0.10	1.01E-03
8644	0.10	8.96E-05	10987	0.10	3.73E-04	14191	0.10	1.98E-06
8645	-0.10	1.78E-04	10994	-0.10	2.55E-04	14194	0.10	9.59E-03
8656	0.10	4.93E-09	11007	0.10	3.24E-03	14195	0.10	1.08E-03
8662	0.20	3.06E-04	11029	-0.10	2.21E-03	14197	0.10	7.93E-03
8663	-0.10	5.42E-06	11038	0.10	1.43E-03	14198	0.10	1.71E-03
8665	0.10	6.87E-03	11042	-0.10	2.71E-04	14206	0.10	1.31E-03
8667	0.20	3.50E-03	11062	0.10	5.31E-05	14219	0.10	2.06E-03
8676	0.10	9.89E-04	11065	0.10	7.78E-05	14220	-0.10	1.60E-04
8683	0.20	3.43E-09	11076	0.10	6.04E-03	14222	0.10	4.07E-03
8692	0.10	1.20E-04	11082	0.10	2.06E-06	14244	0.20	4.78E-16
8693	0.20	3.97E-09	11087	-0.10	3.00E-03	14246	0.10	8.84E-04
8694	0.10	2.35E-03	11088	-0.10	1.01E-07	14249	-0.10	4.11E-04
8699	-0.10	1.50E-05	11090	-0.10	6.73E-03	14253	-0.10	2.87E-05
8704	0.10	1.76E-04	11094	-0.10	1.59E-06	14262	-0.10	1.27E-05
8715	0.10	5.39E-03	11101	-0.10	8.01E-03	14265	-0.10	6.41E-03
8720	-0.10	3.74E-05	11103	-0.20	2.27E-15	14278	-0.10	4.33E-03
8729	0.10	1.30E-03	11108	0.10	3.09E-05	14279	-0.10	1.13E-03
8735	-0.20	1.18E-13	11112	0.10	3.04E-06	14294	0.20	4.55E-04
8739	0.10	5.99E-03	11114	-0.10	2.08E-04	14298	0.10	1.34E-03
8744	0.10	5.85E-03	11116	0.10	6.97E-05	14300	0.10	1.11E-04
8745	0.10	7.60E-04	11122	0.10	5.59E-03	14304	0.10	6.03E-03
8747	-0.10	3.39E-03	11127	0.10	4.55E-07	14313	-0.10	1.19E-03
8760	0.20	7.82E-04	11132	-0.10	1.48E-04	14342	-0.10	9.13E-03
8761	-0.20	7.63E-09	11139	0.10	1.91E-03	14344	-0.10	8.10E-03
8763	0.10	5.40E-06	11140	-0.10	6.93E-04	14359	-0.10	1.71E-03
8764	0.10	8.93E-03	11142	-0.10	2.77E-03	14364	0.10	4.96E-09
8769	0.10	1.15E-03	11143	0.10	2.81E-03	14379	-0.10	6.66E-03
8770	0.10	3.05E-03	11152	-0.10	1.22E-07	14389	-0.10	6.89E-04
8771	0.10	1.03E-03	11153	0.10	2.12E-05	14392	0.10	2.59E-03
8773	0.10	6.54E-03	11173	-0.10	3.88E-03	14406	0.10	9.90E-03
8774	0.10	7.39E-04	11179	0.10	2.50E-04	14407	0.10	1.77E-04
8776	0.10	1.21E-04	11180	-0.10	4.65E-03	14410	-0.10	2.40E-03
8782	-0.10	1.46E-03	11196	-0.10	8.86E-04	14411	0.10	6.14E-04
8794	0.10	5.45E-03	11223	-0.10	4.70E-03	14413	-0.10	5.89E-03
8799	-0.10	9.59E-03	11239	0.10	7.86E-06	14414	-0.10	8.33E-04
8801	0.10	1.97E-05	11240	-0.10	1.01E-04	14422	0.10	3.61E-03
8814	0.10	1.51E-03	11251	-0.10	3.34E-03	14436	-0.10	8.96E-07
8818	0.20	1.58E-05	11270	-0.10	1.90E-04	14450	0.10	3.29E-06
8820	0.10	3.31E-03	11277	-0.10	9.52E-03	14451	-0.20	7.26E-11
8839	0.10	2.59E-04	11282	-0.20	7.08E-03	14472	0.10	3.29E-03
8841	0.10	6.53E-03	11287	0.10	1.37E-05	14474	0.10	5.01E-03

8847	0.10	2.25E-03
8848	0.10	9.28E-05
8857	-0.10	2.55E-07
8859	0.10	3.37E-04
8861	0.10	7.40E-04
8870	0.10	5.39E-03
8877	0.10	1.92E-03
8890	-0.10	9.34E-05
8898	0.10	5.57E-06
8899	0.10	7.59E-04
8901	-0.10	1.09E-07
8902	0.10	3.29E-03
8903	0.10	4.76E-03
8908	0.10	1.03E-05
8915	0.10	2.29E-03
8916	0.10	3.06E-03
8921	-0.10	1.73E-03
3422	0.09	5.00E-02
3908	0.03	5.00E-02
3921	0.04	5.00E-02
4192	0.09	5.00E-02
4237	-0.05	5.00E-02
4388	-0.04	5.00E-02
4402	-0.03	5.00E-02
4416	0.04	5.00E-02
4601	-0.20	5.00E-02
4641	0.04	5.00E-02
4785	0.16	5.00E-02
4805	0.07	5.00E-02
4897	-0.04	5.00E-02
4992	-0.08	5.00E-02
5783	0.09	5.00E-02
5789	-0.08	5.00E-02
6042	0.07	5.00E-02
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0.15	0.15	0.15
-0.12	-0.12	-0.12
-0.07	-0.07	-0.07
-0.10	-0.10	-0.10
-0.13	-0.13	-0.13
0.12	0.12	0.12
-0.24	-0.24	-0.24
0.12	0.12	0.12
-0.08	-0.08	-0.08
0.07	0.07	0.07
0.19	0.19	0.19
0.09	0.09	0.09
-0.09	-0.09	-0.09
0.15	0.15	0.15
0.12	0.12	0.12
0.23	0.23	0.23
0.07	0.07	0.07
-0.14	-0.14	-0.14
-0.26	-0.26	-0.26
-0.08	-0.08	-0.08
0.11	0.11	0.11
0.06	0.06	0.06

-0.23	-0.23	-0.23
0.07	0.07	0.07
-0.16	-0.16	-0.16
0.09	0.09	0.09
0.05	0.05	0.05
-0.14	-0.14	-0.14
-0.13	-0.13	-0.13
0.07	0.07	0.07
0.11	0.11	0.11
0.19	0.19	0.19
0.08	0.08	0.08
0.11	0.11	0.11
0.11	0.11	0.11
0.23	0.23	0.23
0.13	0.13	0.13
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0.08	0.08	0.08
0.11	0.11	0.11
-0.14	-0.14	-0.14
-0.26	-0.26	-0.26
-0.14	-0.14	-0.14
-0.07	-0.07	-0.07
-0.12	-0.12	-0.12
-0.23	-0.23	-0.23
0.12	0.12	0.12
0.19	0.19	0.19
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-0.21	-0.21	-0.21
-0.12	-0.12	-0.12
-0.13	-0.13	-0.13
-0.16	-0.16	-0.16
-0.10	-0.10	-0.10
0.16	0.16	0.16
-0.20	-0.20	-0.20
-0.12	-0.12	-0.12
0.10	0.10	0.10
0.08	0.08	0.08
0.15	0.15	0.15
0.11	0.11	0.11
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-0.13	-0.13	-0.13
-0.13	-0.13	-0.13
-0.30	-0.30	-0.30
0.09	0.09	0.09
-0.22	-0.22	-0.22
-0.07	-0.07	-0.07

0.13	0.13	0.13
-0.15	-0.15	-0.15
0.22	0.22	0.22
-0.16	-0.16	-0.16
-0.20	-0.20	-0.20
-0.20	-0.20	-0.20
0.08	0.08	0.08
-0.08	-0.08	-0.08
-0.13	-0.13	-0.13
-0.21	-0.21	-0.21
-0.15	-0.15	-0.15
0.15	0.15	0.15
0.12	0.12	0.12
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-0.11	-0.11	-0.11
-0.19	-0.19	-0.19
0.13	0.13	0.13
-0.13	-0.13	-0.13
-0.08	-0.08	-0.08
0.13	0.13	0.13
0.21	0.21	0.21
0.08	0.08	0.08
0.11	0.11	0.11
0.11	0.11	0.11
0.06	0.06	0.06
-0.11	-0.11	-0.11
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-0.10	-0.10	-0.10
-0.11	-0.11	-0.11
-0.15	-0.15	-0.15
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-0.12	-0.12	-0.12
-0.11	-0.11	-0.11
-0.21	-0.21	-0.21
0.10	0.10	0.10
-0.18	-0.18	-0.18
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0.12	0.12	0.12
0.08	0.08	0.08
-0.06	-0.06	-0.06
-0.08	-0.08	-0.08
-0.08	-0.08	-0.08
-0.09	-0.09	-0.09
-0.09	-0.09	-0.09

-0.14	-0.14	-0.14	-0.14	-0.14
0.13	0.13	0.13	0.13	0.13
-0.20	-0.20	-0.20	-0.20	-0.20
0.18	0.18	0.18	0.18	0.18
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-0.14	-0.14	-0.14	-0.14	-0.14
-0.17	-0.17	-0.17	-0.17	-0.17
0.08	0.08	0.08	0.08	0.08
0.09	0.09	0.09	0.09	0.09
-0.15	-0.15	-0.15	-0.15	-0.15
0.19	0.19	0.19	0.19	0.19
0.06	0.06	0.06	0.06	0.06
-0.16	-0.16	-0.16	-0.16	-0.16
0.15	0.15	0.15	0.15	0.15
0.07	0.07	0.07	0.07	0.07
-0.11	-0.11	-0.11	-0.11	-0.11
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-0.09	-0.09	-0.09	-0.09	-0.09
0.12	0.12	0.12	0.12	0.12
0.08	0.08	0.08	0.08	0.08
0.09	0.09	0.09	0.09	0.09
-0.15	-0.15	-0.15	-0.15	-0.15
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0.11	0.11	0.11	0.11	0.11
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0.17	0.17	0.17	0.17	0.17
-0.13	-0.13	-0.13	-0.13	-0.13
0.09	0.09	0.09	0.09	0.09
0.16	0.16	0.16	0.16	0.16
-0.11	-0.11	-0.11	-0.11	-0.11
0.08	0.08	0.08	0.08	0.08
-0.26	-0.26	-0.26	-0.26	-0.26
0.11	0.11	0.11	0.11	0.11
0.12	0.12	0.12	0.12	0.12
0.18	0.18	0.18	0.18	0.18
-0.17	-0.17	-0.17	-0.17	-0.17

-0.06	-0.06	-0.06	-0.06	-0.06
0.12	0.12	0.12	0.12	0.12
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0.11	0.11	0.11	0.11	0.11
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-0.20	-0.20	-0.20	-0.20	-0.20
0.16	0.16	0.16	0.16	0.16
0.10	0.10	0.10	0.10	0.10
-0.11	-0.11	-0.11	-0.11	-0.11
-0.08	-0.08	-0.08	-0.08	-0.08
0.09	0.09	0.09	0.09	0.09
0.07	0.07	0.07	0.07	0.07
0.11	0.11	0.11	0.11	0.11
0.10	0.10	0.10	0.10	0.10
-0.22	-0.22	-0.22	-0.22	-0.22
0.13	0.13	0.13	0.13	0.13
0.21	0.21	0.21	0.21	0.21
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-0.11	-0.11	-0.11	-0.11	-0.11
-0.14	-0.14	-0.14	-0.14	-0.14
0.10	0.10	0.10	0.10	0.10
0.12	0.12	0.12	0.12	0.12
-0.28	-0.28	-0.28	-0.28	-0.28
0.12	0.12	0.12	0.12	0.12
0.09	0.09	0.09	0.09	0.09
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-0.24	-0.24	-0.24	-0.24	-0.24
-0.37	-0.37	-0.37	-0.37	-0.37
0.12	0.12	0.12	0.12	0.12
0.10	0.10	0.10	0.10	0.10
-0.10	-0.10	-0.10	-0.10	-0.10
0.09	0.09	0.09	0.09	0.09
-0.15	-0.15	-0.15	-0.15	-0.15
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0.17	0.17	0.17	0.17	0.17
-0.21	-0.21	-0.21	-0.21	-0.21
0.19	0.19	0.19	0.19	0.19
-0.11	-0.11	-0.11	-0.11	-0.11
0.09	0.09	0.09	0.09	0.09
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0.13	0.13	0.13	0.13	0.13
0.09	0.09	0.09	0.09	0.09
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0.07	0.07	0.07	0.07	0.07
-0.11	-0.11	-0.11	-0.11	-0.11
-0.07	-0.07	-0.07	-0.07	-0.07

0.15	0.15	0.15	0.15	0.15
-0.11	-0.11	-0.11	-0.11	-0.11
0.13	0.13	0.13	0.13	0.13
0.11	0.11	0.11	0.11	0.11
0.26	0.26	0.26	0.26	0.26
-0.14	-0.14	-0.14	-0.14	-0.14
0.09	0.09	0.09	0.09	0.09
-0.13	-0.13	-0.13	-0.13	-0.13
0.10	0.10	0.10	0.10	0.10
0.08	0.08	0.08	0.08	0.08
0.11	0.11	0.11	0.11	0.11
-0.20	-0.20	-0.20	-0.20	-0.20
0.11	0.11	0.11	0.11	0.11
-0.07	-0.07	-0.07	-0.07	-0.07
0.10	0.10	0.10	0.10	0.10
0.10	0.10	0.10	0.10	0.10
0.08	0.08	0.08	0.08	0.08
-0.17	-0.17	-0.17	-0.17	-0.17
0.14	0.14	0.14	0.14	0.14
-0.16	-0.16	-0.16	-0.16	-0.16
0.06	0.06	0.06	0.06	0.06
0.07	0.07	0.07	0.07	0.07
-0.14	-0.14	-0.14	-0.14	-0.14
-0.08	-0.08	-0.08	-0.08	-0.08
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-0.17	-0.17	-0.17	-0.17	-0.17
-0.16	-0.16	-0.16	-0.16	-0.16
0.13	0.13	0.13	0.13	0.13
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0.14	0.14	0.14	0.14	0.14
-0.10	-0.10	-0.10	-0.10	-0.10
-0.15	-0.15	-0.15	-0.15	-0.15
0.09	0.09	0.09	0.09	0.09
-0.24	-0.24	-0.24	-0.24	-0.24
-0.20	-0.20	-0.20	-0.20	-0.20
0.07	0.07	0.07	0.07	0.07
0.15	0.15	0.15	0.15	0.15
-0.17	-0.17	-0.17	-0.17	-0.17
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-0.11	-0.11	-0.11	-0.11	-0.11
-0.20	-0.20	-0.20	-0.20	-0.20
-0.18	-0.18	-0.18	-0.18	-0.18
0.08	0.08	0.08	0.08	0.08
0.10	0.10	0.10	0.10	0.10
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0.12	0.12	0.12	0.12	0.12
-0.14	-0.14	-0.14	-0.14	-0.14

-0.10	-0.10	-0.10	-0.10	-0.10
-0.17	-0.17	-0.17	-0.17	-0.17
0.08	0.08	0.08	0.08	0.08
0.11	0.11	0.11	0.11	0.11
0.07	0.07	0.07	0.07	0.07
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0.13	0.13	0.13	0.13	0.13
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0.07	0.07	0.07	0.07	0.07
0.09	0.09	0.09	0.09	0.09
-0.09	-0.09	-0.09	-0.09	-0.09
0.15	0.15	0.15	0.15	0.15
0.08	0.08	0.08	0.08	0.08
-0.19	-0.19	-0.19	-0.19	-0.19
0.21	0.21	0.21	0.21	0.21
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-0.12	-0.12	-0.12	-0.12	-0.12
0.15	0.15	0.15	0.15	0.15
0.16	0.16	0.16	0.16	0.16
0.09	0.09	0.09	0.09	0.09
-0.14	-0.14	-0.14	-0.14	-0.14
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-0.09	-0.09	-0.09	-0.09	-0.09
0.09	0.09	0.09	0.09	0.09
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-0.15	-0.15	-0.15	-0.15	-0.15
0.20	0.20	0.20	0.20	0.20
0.12	0.12	0.12	0.12	0.12
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0.07	0.07	0.07	0.07	0.07
-0.21	-0.21	-0.21	-0.21	-0.21

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0.09	0.09	0.09	0.09	0.09
-0.17	-0.17	-0.17	-0.17	-0.17
-0.20	-0.20	-0.20	-0.20	-0.20
0.09	0.09	0.09	0.09	0.09
0.07	0.07	0.07	0.07	0.07
0.09	0.09	0.09	0.09	0.09
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0.13	0.13	0.13	0.13	0.13
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0.18	0.18	0.18	0.18	0.18
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0.08	0.08	0.08	0.08	0.08
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0.14	0.14	0.14	0.14	0.14
0.07	0.07	0.07	0.07	0.07
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0.17	0.17	0.17	0.17	0.17
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-0.17	-0.17	-0.17	-0.17	-0.17
-0.08	-0.08	-0.08	-0.08	-0.08
0.10	0.10	0.10	0.10	0.10
-0.07	-0.07	-0.07	-0.07	-0.07
-0.28	-0.28	-0.28	-0.28	-0.28
0.08	0.08	0.08	0.08	0.08
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0.13	0.13	0.13	0.13	0.13
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0.19	0.19	0.19	0.19	0.19
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-0.13	-0.13	-0.13	-0.13	-0.13
-0.09	-0.09	-0.09	-0.09	-0.09
-0.23	-0.23	-0.23	-0.23	-0.23
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0.11	0.11	0.11	0.11	0.11
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0.08	0.08	0.08	0.08	0.08
0.09	0.09	0.09	0.09	0.09

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-0.09	-0.09	-0.09	-0.09	-0.09
-0.11	-0.11	-0.11	-0.11	-0.11
-0.09	-0.09	-0.09	-0.09	-0.09
-0.11	-0.11	-0.11	-0.11	-0.11
0.07	0.07	0.07	0.07	0.07
-0.09	-0.09	-0.09	-0.09	-0.09
0.10	0.10	0.10	0.10	0.10
-0.15	-0.15	-0.15	-0.15	-0.15
-0.18	-0.18	-0.18	-0.18	-0.18
0.12	0.12	0.12	0.12	0.12
0.06	0.06	0.06	0.06	0.06
-0.10	-0.10	-0.10	-0.10	-0.10
-0.12	-0.12	-0.12	-0.12	-0.12
0.11	0.11	0.11	0.11	0.11
0.16	0.16	0.16	0.16	0.16
-0.07	-0.07	-0.07	-0.07	-0.07
0.18	0.18	0.18	0.18	0.18
0.12	0.12	0.12	0.12	0.12
0.11	0.11	0.11	0.11	0.11
0.14	0.14	0.14	0.14	0.14
0.10	0.10	0.10	0.10	0.10
0.25	0.25	0.25	0.25	0.25
-0.16	-0.16	-0.16	-0.16	-0.16
0.11	0.11	0.11	0.11	0.11
-0.33	-0.33	-0.33	-0.33	-0.33
-0.11	-0.11	-0.11	-0.11	-0.11
0.16	0.16	0.16	0.16	0.16
-0.16	-0.16	-0.16	-0.16	-0.16
0.12	0.12	0.12	0.12	0.12
-0.21	-0.21	-0.21	-0.21	-0.21
-0.22	-0.22	-0.22	-0.22	-0.22
-0.21	-0.21	-0.21	-0.21	-0.21
-0.11	-0.11	-0.11	-0.11	-0.11
0.08	0.08	0.08	0.08	0.08
-0.11	-0.11	-0.11	-0.11	-0.11
0.10	0.10	0.10	0.10	0.10
-0.19	-0.19	-0.19	-0.19	-0.19
0.11	0.11	0.11	0.11	0.11
-0.20	-0.20	-0.20	-0.20	-0.20
-0.21	-0.21	-0.21	-0.21	-0.21
0.10	0.10	0.10	0.10	0.10
-0.25	-0.25	-0.25	-0.25	-0.25
-0.10	-0.10	-0.10	-0.10	-0.10
-0.08	-0.08	-0.08	-0.08	-0.08
-0.07	-0.07	-0.07	-0.07	-0.07
-0.08	-0.08	-0.08	-0.08	-0.08
0.10	0.10	0.10	0.10	0.10
-0.20	-0.20	-0.20	-0.20	-0.20
-0.11	-0.11	-0.11	-0.11	-0.11
0.20	0.20	0.20	0.20	0.20
-0.09	-0.09	-0.09	-0.09	-0.09

-0.15	-0.15	-0.15	-0.15	-0.15
0.12	0.12	0.12	0.12	0.12
0.07	0.07	0.07	0.07	0.07
0.10	0.10	0.10	0.10	0.10
0.07	0.07	0.07	0.07	0.07
0.13	0.13	0.13	0.13	0.13
-0.12	-0.12	-0.12	-0.12	-0.12
-0.22	-0.22	-0.22	-0.22	-0.22
-0.25	-0.25	-0.25	-0.25	-0.25
0.12	0.12	0.12	0.12	0.12
0.22	0.22	0.22	0.22	0.22
0.15	0.15	0.15	0.15	0.15
0.08	0.08	0.08	0.08	0.08
-0.15	-0.15	-0.15	-0.15	-0.15
0.12	0.12	0.12	0.12	0.12
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0.11	0.11	0.11	0.11	0.11
-0.13	-0.13	-0.13	-0.13	-0.13
0.08	0.08	0.08	0.08	0.08
-0.07	-0.07	-0.07	-0.07	-0.07
0.10	0.10	0.10	0.10	0.10
-0.15	-0.15	-0.15	-0.15	-0.15
-0.06	-0.06	-0.06	-0.06	-0.06
-0.14	-0.14	-0.14	-0.14	-0.14
0.09	0.09	0.09	0.09	0.09
-0.10	-0.10	-0.10	-0.10	-0.10
0.09	0.09	0.09	0.09	0.09
0.15	0.15	0.15	0.15	0.15
0.10	0.10	0.10	0.10	0.10
0.18	0.18	0.18	0.18	0.18
0.10	0.10	0.10	0.10	0.10
0.09	0.09	0.09	0.09	0.09
0.24	0.24	0.24	0.24	0.24
-0.12	-0.12	-0.12	-0.12	-0.12
-0.12	-0.12	-0.12	-0.12	-0.12
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0.08	0.08	0.08	0.08	0.08
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-0.13	-0.13	-0.13	-0.13	-0.13
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0.09	0.09	0.09	0.09	0.09
-0.14	-0.14	-0.14	-0.14	-0.14
-0.08	-0.08	-0.08	-0.08	-0.08
0.13	0.13	0.13	0.13	0.13
-0.19	-0.19	-0.19	-0.19	-0.19
0.07	0.07	0.07	0.07	0.07
0.20	0.20	0.20	0.20	0.20
-0.21	-0.21	-0.21	-0.21	-0.21
-0.11	-0.11	-0.11	-0.11	-0.11
0.09	0.09	0.09	0.09	0.09
-0.09	-0.09	-0.09	-0.09	-0.09
-0.14	-0.14	-0.14	-0.14	-0.14
-0.08	-0.08	-0.08	-0.08	-0.08

0.10	0.10	0.10	0.10	0.10
0.19	0.19	0.19	0.19	0.19
-0.19	-0.19	-0.19	-0.19	-0.19
0.10	0.10	0.10	0.10	0.10
0.09	0.09	0.09	0.09	0.09
-0.18	-0.18	-0.18	-0.18	-0.18
-0.17	-0.17	-0.17	-0.17	-0.17
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0.07	0.07	0.07	0.07	0.07
0.13	0.13	0.13	0.13	0.13
-0.13	-0.13	-0.13	-0.13	-0.13
0.08	0.08	0.08	0.08	0.08
0.13	0.13	0.13	0.13	0.13
-0.10	-0.10	-0.10	-0.10	-0.10
-0.08	-0.08	-0.08	-0.08	-0.08
-0.16	-0.16	-0.16	-0.16	-0.16
-0.16	-0.16	-0.16	-0.16	-0.16
-0.16	-0.16	-0.16	-0.16	-0.16
-0.08	-0.08	-0.08	-0.08	-0.08
-0.23	-0.23	-0.23	-0.23	-0.23
0.12	0.12	0.12	0.12	0.12
0.12	0.12	0.12	0.12	0.12
-0.13	-0.13	-0.13	-0.13	-0.13
-0.11	-0.11	-0.11	-0.11	-0.11
-0.09	-0.09	-0.09	-0.09	-0.09
-0.08	-0.08	-0.08	-0.08	-0.08
-0.20	-0.20	-0.20	-0.20	-0.20
-0.10	-0.10	-0.10	-0.10	-0.10
0.18	0.18	0.18	0.18	0.18
-0.11	-0.11	-0.11	-0.11	-0.11
0.07	0.07	0.07	0.07	0.07
-0.15	-0.15	-0.15	-0.15	-0.15
0.08	0.08	0.08	0.08	0.08
-0.14	-0.14	-0.14	-0.14	-0.14
0.20	0.20	0.20	0.20	0.20
-0.12	-0.12	-0.12	-0.12	-0.12
-0.26	-0.26	-0.26	-0.26	-0.26
-0.05	-0.05	-0.05	-0.05	-0.05
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-0.10	-0.10	-0.10	-0.10	-0.10
-0.08	-0.08	-0.08	-0.08	-0.08
0.09	0.09	0.09	0.09	0.09
-0.13	-0.13	-0.13	-0.13	-0.13
-0.20	-0.20	-0.20	-0.20	-0.20
0.07	0.07	0.07	0.07	0.07
0.07	0.07	0.07	0.07	0.07
-0.10	-0.10	-0.10	-0.10	-0.10
0.10	0.10	0.10	0.10	0.10
-0.18	-0.18	-0.18	-0.18	-0.18
0.12	0.12	0.12	0.12	0.12
-0.10	-0.10	-0.10	-0.10	-0.10
0.12	0.12	0.12	0.12	0.12
-0.23	-0.23	-0.23	-0.23	-0.23

0.12	0.12	0.12	0.12	0.12
0.12	0.12	0.12	0.12	0.12
0.09	0.09	0.09	0.09	0.09
-0.11	-0.11	-0.11	-0.11	-0.11
0.07	0.07	0.07	0.07	0.07
0.14	0.14	0.14	0.14	0.14
-0.08	-0.08	-0.08	-0.08	-0.08
0.16	0.16	0.16	0.16	0.16
-0.11	-0.11	-0.11	-0.11	-0.11
0.09	0.09	0.09	0.09	0.09
-0.14	-0.14	-0.14	-0.14	-0.14
-0.22	-0.22	-0.22	-0.22	-0.22
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-0.14	-0.14	-0.14	-0.14	-0.14
-0.12	-0.12	-0.12	-0.12	-0.12
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-0.19	-0.19	-0.19	-0.19	-0.19
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-0.08	-0.08	-0.08	-0.08	-0.08
0.16	0.16	0.16	0.16	0.16
-0.08	-0.08	-0.08	-0.08	-0.08
0.08	0.08	0.08	0.08	0.08
-0.14	-0.14	-0.14	-0.14	-0.14
-0.08	-0.08	-0.08	-0.08	-0.08
-0.19	-0.19	-0.19	-0.19	-0.19
0.09	0.09	0.09	0.09	0.09
-0.15	-0.15	-0.15	-0.15	-0.15
-0.22	-0.22	-0.22	-0.22	-0.22
-0.08	-0.08	-0.08	-0.08	-0.08
0.17	0.17	0.17	0.17	0.17
0.15	0.15	0.15	0.15	0.15
-0.08	-0.08	-0.08	-0.08	-0.08
0.10	0.10	0.10	0.10	0.10
0.14	0.14	0.14	0.14	0.14
0.17	0.17	0.17	0.17	0.17
0.06	0.06	0.06	0.06	0.06
-0.11	-0.11	-0.11	-0.11	-0.11
0.13	0.13	0.13	0.13	0.13
-0.11	-0.11	-0.11	-0.11	-0.11
0.18	0.18	0.18	0.18	0.18
0.08	0.08	0.08	0.08	0.08
0.16	0.16	0.16	0.16	0.16
-0.08	-0.08	-0.08	-0.08	-0.08
0.15	0.15	0.15	0.15	0.15
-0.11	-0.11	-0.11	-0.11	-0.11
-0.09	-0.09	-0.09	-0.09	-0.09
0.09	0.09	0.09	0.09	0.09
-0.19	-0.19	-0.19	-0.19	-0.19
-0.23	-0.23	-0.23	-0.23	-0.23
-0.13	-0.13	-0.13	-0.13	-0.13
-0.11	-0.11	-0.11	-0.11	-0.11
-0.09	-0.09	-0.09	-0.09	-0.09

0.07	0.07	0.07	0.07	0.07
-0.25	-0.25	-0.25	-0.25	-0.25
0.08	0.08	0.08	0.08	0.08
0.10	0.10	0.10	0.10	0.10
-0.11	-0.11	-0.11	-0.11	-0.11
-0.33	-0.33	-0.33	-0.33	-0.33
-0.22	-0.22	-0.22	-0.22	-0.22
0.15	0.15	0.15	0.15	0.15
-0.11	-0.11	-0.11	-0.11	-0.11
-0.11	-0.11	-0.11	-0.11	-0.11
0.16	0.16	0.16	0.16	0.16
0.15	0.15	0.15	0.15	0.15
0.11	0.11	0.11	0.11	0.11
0.13	0.13	0.13	0.13	0.13
-0.14	-0.14	-0.14	-0.14	-0.14
0.15	0.15	0.15	0.15	0.15
-0.15	-0.15	-0.15	-0.15	-0.15
-0.10	-0.10	-0.10	-0.10	-0.10
0.09	0.09	0.09	0.09	0.09
0.10	0.10	0.10	0.10	0.10
-0.08	-0.08	-0.08	-0.08	-0.08
0.08	0.08	0.08	0.08	0.08
-0.16	-0.16	-0.16	-0.16	-0.16
0.11	0.11	0.11	0.11	0.11
-0.08	-0.08	-0.08	-0.08	-0.08
-0.08	-0.08	-0.08	-0.08	-0.08
-0.11	-0.11	-0.11	-0.11	-0.11
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-0.14	-0.14	-0.14	-0.14	-0.14
-0.11	-0.11	-0.11	-0.11	-0.11
0.05	0.05	0.05	0.05	0.05
-0.12	-0.12	-0.12	-0.12	-0.12
0.16	0.16	0.16	0.16	0.16
-0.15	-0.15	-0.15	-0.15	-0.15
0.16	0.16	0.16	0.16	0.16
-0.27	-0.27	-0.27	-0.27	-0.27
0.09	0.09	0.09	0.09	0.09
-0.13	-0.13	-0.13	-0.13	-0.13
0.07	0.07	0.07	0.07	0.07
0.09	0.09	0.09	0.09	0.09
0.09	0.09	0.09	0.09	0.09
0.20	0.20	0.20	0.20	0.20
0.17	0.17	0.17	0.17	0.17
0.10	0.10	0.10	0.10	0.10
0.09	0.09	0.09	0.09	0.09
0.13	0.13	0.13	0.13	0.13
-0.09	-0.09	-0.09	-0.09	-0.09
0.13	0.13	0.13	0.13	0.13
0.08	0.08	0.08	0.08	0.08
-0.07	-0.07	-0.07	-0.07	-0.07
0.07	0.07	0.07	0.07	0.07
-0.14	-0.14	-0.14	-0.14	-0.14

0.13	0.13	0.13	0.13	0.13
0.05	0.05	0.05	0.05	0.05
-0.16	-0.16	-0.16	-0.16	-0.16
0.12	0.12	0.12	0.12	0.12
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0.06	0.06	0.06	0.06	0.06
0.11	0.11	0.11	0.11	0.11
-0.11	-0.11	-0.11	-0.11	-0.11
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0.18	0.18	0.18	0.18	0.18
0.15	0.15	0.15	0.15	0.15
0.10	0.10	0.10	0.10	0.10
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-0.15	-0.15	-0.15	-0.15	-0.15
-0.08	-0.08	-0.08	-0.08	-0.08
-0.07	-0.07	-0.07	-0.07	-0.07
0.08	0.08	0.08	0.08	0.08
-0.09	-0.09	-0.09	-0.09	-0.09
-0.16	-0.16	-0.16	-0.16	-0.16
-0.11	-0.11	-0.11	-0.11	-0.11
0.15	0.15	0.15	0.15	0.15
0.07	0.07	0.07	0.07	0.07
-0.24	-0.24	-0.24	-0.24	-0.24
-0.24	-0.24	-0.24	-0.24	-0.24
0.07	0.07	0.07	0.07	0.07
0.17	0.17	0.17	0.17	0.17
0.10	0.10	0.10	0.10	0.10
0.10	0.10	0.10	0.10	0.10
0.09	0.09	0.09	0.09	0.09
-0.25	-0.25	-0.25	-0.25	-0.25
0.12	0.12	0.12	0.12	0.12
-0.14	-0.14	-0.14	-0.14	-0.14
-0.12	-0.12	-0.12	-0.12	-0.12
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-0.17	-0.17	-0.17	-0.17	-0.17
0.13	0.13	0.13	0.13	0.13
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-0.10	-0.10	-0.10	-0.10	-0.10
-0.15	-0.15	-0.15	-0.15	-0.15
-0.08	-0.08	-0.08	-0.08	-0.08
0.17	0.17	0.17	0.17	0.17
0.14	0.14	0.14	0.14	0.14
-0.12	-0.12	-0.12	-0.12	-0.12
0.11	0.11	0.11	0.11	0.11
0.17	0.17	0.17	0.17	0.17
-0.07	-0.07	-0.07	-0.07	-0.07
-0.18	-0.18	-0.18	-0.18	-0.18
-0.22	-0.22	-0.22	-0.22	-0.22

0.15	0.15	0.15	0.15	0.15
-0.13	-0.13	-0.13	-0.13	-0.13
-0.09	-0.09	-0.09	-0.09	-0.09
-0.09	-0.09	-0.09	-0.09	-0.09
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-0.13	-0.13	-0.13	-0.13	-0.13
-0.19	-0.19	-0.19	-0.19	-0.19
-0.17	-0.17	-0.17	-0.17	-0.17
-0.19	-0.19	-0.19	-0.19	-0.19
0.10	0.10	0.10	0.10	0.10
0.18	0.18	0.18	0.18	0.18
-0.09	-0.09	-0.09	-0.09	-0.09
-0.17	-0.17	-0.17	-0.17	-0.17
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0.09	0.09	0.09	0.09	0.09
0.15	0.15	0.15	0.15	0.15
-0.12	-0.12	-0.12	-0.12	-0.12
-0.07	-0.07	-0.07	-0.07	-0.07
-0.10	-0.10	-0.10	-0.10	-0.10
-0.13	-0.13	-0.13	-0.13	-0.13
0.12	0.12	0.12	0.12	0.12
-0.24	-0.24	-0.24	-0.24	-0.24
0.12	0.12	0.12	0.12	0.12
-0.08	-0.08	-0.08	-0.08	-0.08
0.07	0.07	0.07	0.07	0.07
0.19	0.19	0.19	0.19	0.19
0.09	0.09	0.09	0.09	0.09
-0.09	-0.09	-0.09	-0.09	-0.09
0.15	0.15	0.15	0.15	0.15
0.12	0.12	0.12	0.12	0.12
0.23	0.23	0.23	0.23	0.23
0.07	0.07	0.07	0.07	0.07
-0.14	-0.14	-0.14	-0.14	-0.14
-0.26	-0.26	-0.26	-0.26	-0.26
-0.08	-0.08	-0.08	-0.08	-0.08
0.11	0.11	0.11	0.11	0.11
0.06	0.06	0.06	0.06	0.06
-0.23	-0.23	-0.23	-0.23	-0.23
0.07	0.07	0.07	0.07	0.07
-0.16	-0.16	-0.16	-0.16	-0.16
0.09	0.09	0.09	0.09	0.09
0.05	0.05	0.05	0.05	0.05
-0.14	-0.14	-0.14	-0.14	-0.14
-0.13	-0.13	-0.13	-0.13	-0.13
0.07	0.07	0.07	0.07	0.07
0.11	0.11	0.11	0.11	0.11
0.19	0.19	0.19	0.19	0.19
0.08	0.08	0.08	0.08	0.08
0.11	0.11	0.11	0.11	0.11
0.11	0.11	0.11	0.11	0.11
0.23	0.23	0.23	0.23	0.23
0.13	0.13	0.13	0.13	0.13
-0.09	-0.09	-0.09	-0.09	-0.09

0.08	0.08	0.08	0.08	0.08
0.11	0.11	0.11	0.11	0.11
-0.14	-0.14	-0.14	-0.14	-0.14
-0.26	-0.26	-0.26	-0.26	-0.26
-0.14	-0.14	-0.14	-0.14	-0.14
-0.07	-0.07	-0.07	-0.07	-0.07
-0.12	-0.12	-0.12	-0.12	-0.12
-0.23	-0.23	-0.23	-0.23	-0.23
0.12	0.12	0.12	0.12	0.12
0.19	0.19	0.19	0.19	0.19
-0.12	-0.12	-0.12	-0.12	-0.12
-0.21	-0.21	-0.21	-0.21	-0.21
-0.12	-0.12	-0.12	-0.12	-0.12
-0.13	-0.13	-0.13	-0.13	-0.13
-0.16	-0.16	-0.16	-0.16	-0.16
-0.10	-0.10	-0.10	-0.10	-0.10
0.16	0.16	0.16	0.16	0.16
-0.20	-0.20	-0.20	-0.20	-0.20
-0.12	-0.12	-0.12	-0.12	-0.12
0.10	0.10	0.10	0.10	0.10
0.08	0.08	0.08	0.08	0.08
0.15	0.15	0.15	0.15	0.15
0.11	0.11	0.11	0.11	0.11
0.17	0.17	0.17	0.17	0.17
0.12	0.12	0.12	0.12	0.12
0.13	0.13	0.13	0.13	0.13
-0.08	-0.08	-0.08	-0.08	-0.08
-0.13	-0.13	-0.13	-0.13	-0.13
-0.13	-0.13	-0.13	-0.13	-0.13
-0.30	-0.30	-0.30	-0.30	-0.30
0.09	0.09	0.09	0.09	0.09
-0.22	-0.22	-0.22	-0.22	-0.22
-0.07	-0.07	-0.07	-0.07	-0.07
0.13	0.13	0.13	0.13	0.13
-0.15	-0.15	-0.15	-0.15	-0.15
0.22	0.22	0.22	0.22	0.22
-0.16	-0.16	-0.16	-0.16	-0.16
-0.20	-0.20	-0.20	-0.20	-0.20
-0.20	-0.20	-0.20	-0.20	-0.20
0.08	0.08	0.08	0.08	0.08
-0.08	-0.08	-0.08	-0.08	-0.08
-0.13	-0.13	-0.13	-0.13	-0.13
-0.21	-0.21	-0.21	-0.21	-0.21
-0.15	-0.15	-0.15	-0.15	-0.15
0.15	0.15	0.15	0.15	0.15
0.12	0.12	0.12	0.12	0.12
-0.10	-0.10	-0.10	-0.10	-0.10
-0.12	-0.12	-0.12	-0.12	-0.12
-0.11	-0.11	-0.11	-0.11	-0.11
-0.19	-0.19	-0.19	-0.19	-0.19
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-0.13	-0.13	-0.13	-0.13	-0.13
-0.08	-0.08	-0.08	-0.08	-0.08

0.13	0.13	0.13	0.13	0.13
0.21	0.21	0.21	0.21	0.21
0.08	0.08	0.08	0.08	0.08
0.11	0.11	0.11	0.11	0.11
0.11	0.11	0.11	0.11	0.11
0.06	0.06	0.06	0.06	0.06
-0.11	-0.11	-0.11	-0.11	-0.11
-0.10	-0.10	-0.10	-0.10	-0.10
-0.10	-0.10	-0.10	-0.10	-0.10
-0.11	-0.11	-0.11	-0.11	-0.11
-0.15	-0.15	-0.15	-0.15	-0.15
-0.20	-0.20	-0.20	-0.20	-0.20
-0.12	-0.12	-0.12	-0.12	-0.12
-0.11	-0.11	-0.11	-0.11	-0.11
-0.21	-0.21	-0.21	-0.21	-0.21
0.10	0.10	0.10	0.10	0.10
-0.18	-0.18	-0.18	-0.18	-0.18
-0.21	-0.21	-0.21	-0.21	-0.21
-0.10	-0.10	-0.10	-0.10	-0.10
-0.10	-0.10	-0.10	-0.10	-0.10
0.10	0.10	0.10	0.10	0.10
0.13	0.13	0.13	0.13	0.13
0.12	0.12	0.12	0.12	0.12
0.08	0.08	0.08	0.08	0.08
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-0.08	-0.08	-0.08	-0.08	-0.08
-0.09	-0.09	-0.09	-0.09	-0.09
-0.09	-0.09	-0.09	-0.09	-0.09
0.14	0.14	0.14	0.14	0.14
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0.11	0.11	0.11	0.11	0.11
-0.20	-0.20	-0.20	-0.20	-0.20
-0.16	-0.16	-0.16	-0.16	-0.16
0.12	0.12	0.12	0.12	0.12
-0.15	-0.15	-0.15	-0.15	-0.15
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0.09	0.09	0.09	0.09	0.09
-0.08	-0.08	-0.08	-0.08	-0.08
0.08	0.08	0.08	0.08	0.08
0.10	0.10	0.10	0.10	0.10
0.17	0.17	0.17	0.17	0.17
0.08	0.08	0.08	0.08	0.08
0.07	0.07	0.07	0.07	0.07
0.14	0.14	0.14	0.14	0.14
-0.09	-0.09	-0.09	-0.09	-0.09
-0.07	-0.07	-0.07	-0.07	-0.07
0.16	0.16	0.16	0.16	0.16
0.16	0.16	0.16	0.16	0.16

0.17	0.17	0.17	0.17	0.17
-0.12	-0.12	-0.12	-0.12	-0.12
-0.24	-0.24	-0.24	-0.24	-0.24
0.13	0.13	0.13	0.13	0.13
0.12	0.12	0.12	0.12	0.12
0.09	0.09	0.09	0.09	0.09
0.13	0.13	0.13	0.13	0.13
0.10	0.10	0.10	0.10	0.10
-0.15	-0.15	-0.15	-0.15	-0.15
-0.14	-0.14	-0.14	-0.14	-0.14
-0.06	-0.06	-0.06	-0.06	-0.06
0.09	0.09	0.09	0.09	0.09
-0.17	-0.17	-0.17	-0.17	-0.17
-0.10	-0.10	-0.10	-0.10	-0.10
0.15	0.15	0.15	0.15	0.15
-0.13	-0.13	-0.13	-0.13	-0.13
-0.17	-0.17	-0.17	-0.17	-0.17
0.20	0.20	0.20	0.20	0.20
-0.15	-0.15	-0.15	-0.15	-0.15
-0.23	-0.23	-0.23	-0.23	-0.23
-0.23	-0.23	-0.23	-0.23	-0.23
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-0.18	-0.18	-0.18	-0.18	-0.18
0.08	0.08	0.08	0.08	0.08
-0.18	-0.18	-0.18	-0.18	-0.18
-0.08	-0.08	-0.08	-0.08	-0.08
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0.09	0.09	0.09	0.09	0.09
0.09	0.09	0.09	0.09	0.09
0.13	0.13	0.13	0.13	0.13
-0.13	-0.13	-0.13	-0.13	-0.13
0.17	0.17	0.17	0.17	0.17
-0.13	-0.13	-0.13	-0.13	-0.13
0.10	0.10	0.10	0.10	0.10
-0.09	-0.09	-0.09	-0.09	-0.09
-0.14	-0.14	-0.14	-0.14	-0.14
0.09	0.09	0.09	0.09	0.09
-0.18	-0.18	-0.18	-0.18	-0.18
-0.20	-0.20	-0.20	-0.20	-0.20
0.09	0.09	0.09	0.09	0.09
-0.21	-0.21	-0.21	-0.21	-0.21
-0.19	-0.19	-0.19	-0.19	-0.19
-0.23	-0.23	-0.23	-0.23	-0.23
0.12	0.12	0.12	0.12	0.12
-0.12	-0.12	-0.12	-0.12	-0.12
-0.26	-0.26	-0.26	-0.26	-0.26
0.09	0.09	0.09	0.09	0.09
-0.17	-0.17	-0.17	-0.17	-0.17
-0.12	-0.12	-0.12	-0.12	-0.12

0.19	0.19	0.19	0.19	0.19
0.10	0.10	0.10	0.10	0.10
0.10	0.10	0.10	0.10	0.10
0.14	0.14	0.14	0.14	0.14
-0.09	-0.09	-0.09	-0.09	-0.09
-0.10	-0.10	-0.10	-0.10	-0.10
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-0.19	-0.19	-0.19	-0.19	-0.19
0.12	0.12	0.12	0.12	0.12
-0.10	-0.10	-0.10	-0.10	-0.10
0.10	0.10	0.10	0.10	0.10
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0.11	0.11	0.11	0.11	0.11
0.10	0.10	0.10	0.10	0.10
-0.11	-0.11	-0.11	-0.11	-0.11
-0.26	-0.26	-0.26	-0.26	-0.26
0.08	0.08	0.08	0.08	0.08
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0.07	0.07	0.07	0.07	0.07
0.19	0.19	0.19	0.19	0.19
-0.10	-0.10	-0.10	-0.10	-0.10
-0.13	-0.13	-0.13	-0.13	-0.13
0.13	0.13	0.13	0.13	0.13
0.09	0.09	0.09	0.09	0.09
-0.11	-0.11	-0.11	-0.11	-0.11
-0.10	-0.10	-0.10	-0.10	-0.10
-0.19	-0.19	-0.19	-0.19	-0.19
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0.08	0.08	0.08	0.08	0.08
0.13	0.13	0.13	0.13	0.13
0.10	0.10	0.10	0.10	0.10
-0.18	-0.18	-0.18	-0.18	-0.18
0.08	0.08	0.08	0.08	0.08
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-0.13	-0.13	-0.13	-0.13	-0.13
-0.08	-0.08	-0.08	-0.08	-0.08
0.09	0.09	0.09	0.09	0.09
-0.09	-0.09	-0.09	-0.09	-0.09
-0.19	-0.19	-0.19	-0.19	-0.19
0.08	0.08	0.08	0.08	0.08
0.21	0.21	0.21	0.21	0.21
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-0.15	-0.15	-0.15	-0.15	-0.15
0.09	0.09	0.09	0.09	0.09
-0.09	-0.09	-0.09	-0.09	-0.09
-0.08	-0.08	-0.08	-0.08	-0.08
-0.11	-0.11	-0.11	-0.11	-0.11
-0.22	-0.22	-0.22	-0.22	-0.22
0.07	0.07	0.07	0.07	0.07
0.06	0.06	0.06	0.06	0.06
0.07	0.07	0.07	0.07	0.07

-0.12	-0.12	-0.12	-0.12	-0.12
-0.09	-0.09	-0.09	-0.09	-0.09
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0.15	0.15	0.15	0.15	0.15
-0.20	-0.20	-0.20	-0.20	-0.20
-0.15	-0.15	-0.15	-0.15	-0.15
0.14	0.14	0.14	0.14	0.14
-0.10	-0.10	-0.10	-0.10	-0.10
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0.08	0.08	0.08	0.08	0.08
0.13	0.13	0.13	0.13	0.13
0.07	0.07	0.07	0.07	0.07
0.16	0.16	0.16	0.16	0.16
0.10	0.10	0.10	0.10	0.10
0.12	0.12	0.12	0.12	0.12
0.14	0.14	0.14	0.14	0.14
-0.08	-0.08	-0.08	-0.08	-0.08
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-0.14	-0.14	-0.14	-0.14	-0.14
0.13	0.13	0.13	0.13	0.13
0.10	0.10	0.10	0.10	0.10
-0.14	-0.14	-0.14	-0.14	-0.14
-0.08	-0.08	-0.08	-0.08	-0.08
0.17	0.17	0.17	0.17	0.17
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0.10	0.10	0.10	0.10	0.10
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0.13	0.13	0.13	0.13	0.13
0.15	0.15	0.15	0.15	0.15
-0.13	-0.13	-0.13	-0.13	-0.13
-0.26	-0.26	-0.26	-0.26	-0.26
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0.18	0.18	0.18	0.18	0.18
0.13	0.13	0.13	0.13	0.13
-0.10	-0.10	-0.10	-0.10	-0.10
-0.09	-0.09	-0.09	-0.09	-0.09
-0.10	-0.10	-0.10	-0.10	-0.10
0.17	0.17	0.17	0.17	0.17
-0.21	-0.21	-0.21	-0.21	-0.21
-0.15	-0.15	-0.15	-0.15	-0.15
0.09	0.09	0.09	0.09	0.09
0.09	0.09	0.09	0.09	0.09
-0.16	-0.16	-0.16	-0.16	-0.16
-0.13	-0.13	-0.13	-0.13	-0.13
0.09	0.09	0.09	0.09	0.09
0.18	0.18	0.18	0.18	0.18
-0.07	-0.07	-0.07	-0.07	-0.07
0.10	0.10	0.10	0.10	0.10

0.11	0.11	0.11	0.11	0.11
-0.18	-0.18	-0.18	-0.18	-0.18
0.17	0.17	0.17	0.17	0.17
-0.23	-0.23	-0.23	-0.23	-0.23
-0.08	-0.08	-0.08	-0.08	-0.08
0.15	0.15	0.15	0.15	0.15
-0.19	-0.19	-0.19	-0.19	-0.19
0.12	0.12	0.12	0.12	0.12
0.12	0.12	0.12	0.12	0.12
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-0.07	-0.07	-0.07	-0.07	-0.07
-0.12	-0.12	-0.12	-0.12	-0.12
0.12	0.12	0.12	0.12	0.12
0.09	0.09	0.09	0.09	0.09
0.10	0.10	0.10	0.10	0.10
-0.15	-0.15	-0.15	-0.15	-0.15
-0.18	-0.18	-0.18	-0.18	-0.18
-0.24	-0.24	-0.24	-0.24	-0.24
-0.19	-0.19	-0.19	-0.19	-0.19
-0.21	-0.21	-0.21	-0.21	-0.21
-0.09	-0.09	-0.09	-0.09	-0.09
0.15	0.15	0.15	0.15	0.15
-0.18	-0.18	-0.18	-0.18	-0.18
-0.14	-0.14	-0.14	-0.14	-0.14
-0.35	-0.35	-0.35	-0.35	-0.35
-0.08	-0.08	-0.08	-0.08	-0.08
-0.25	-0.25	-0.25	-0.25	-0.25
-0.17	-0.17	-0.17	-0.17	-0.17
-0.17	-0.17	-0.17	-0.17	-0.17
-0.13	-0.13	-0.13	-0.13	-0.13
0.20	0.20	0.20	0.20	0.20
0.08	0.08	0.08	0.08	0.08
0.14	0.14	0.14	0.14	0.14
-0.10	-0.10	-0.10	-0.10	-0.10
0.16	0.16	0.16	0.16	0.16
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0.15	0.15	0.15	0.15	0.15
-0.19	-0.19	-0.19	-0.19	-0.19
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-0.21	-0.21	-0.21	-0.21	-0.21
0.18	0.18	0.18	0.18	0.18
0.23	0.23	0.23	0.23	0.23
0.18	0.18	0.18	0.18	0.18
0.13	0.13	0.13	0.13	0.13
0.12	0.12	0.12	0.12	0.12
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0.15	0.15	0.15	0.15	0.15
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0.10	0.10	0.10	0.10	0.10
-0.15	-0.15	-0.15	-0.15	-0.15
-0.15	-0.15	-0.15	-0.15	-0.15

-0.23	-0.23	-0.23	-0.23	-0.23
0.18	0.18	0.18	0.18	0.18
-0.08	-0.08	-0.08	-0.08	-0.08
0.08	0.08	0.08	0.08	0.08
-0.13	-0.13	-0.13	-0.13	-0.13
-0.11	-0.11	-0.11	-0.11	-0.11
0.06	0.06	0.06	0.06	0.06
0.08	0.08	0.08	0.08	0.08
0.14	0.14	0.14	0.14	0.14
0.12	0.12	0.12	0.12	0.12
-0.15	-0.15	-0.15	-0.15	-0.15
-0.23	-0.23	-0.23	-0.23	-0.23
0.07	0.07	0.07	0.07	0.07
-0.12	-0.12	-0.12	-0.12	-0.12
0.09	0.09	0.09	0.09	0.09
-0.08	-0.08	-0.08	-0.08	-0.08
0.11	0.11	0.11	0.11	0.11
-0.17	-0.17	-0.17	-0.17	-0.17
0.11	0.11	0.11	0.11	0.11
-0.12	-0.12	-0.12	-0.12	-0.12
0.16	0.16	0.16	0.16	0.16
-0.17	-0.17	-0.17	-0.17	-0.17
-0.15	-0.15	-0.15	-0.15	-0.15
0.17	0.17	0.17	0.17	0.17
0.07	0.07	0.07	0.07	0.07
0.15	0.15	0.15	0.15	0.15
-0.08	-0.08	-0.08	-0.08	-0.08
-0.15	-0.15	-0.15	-0.15	-0.15
-0.09	-0.09	-0.09	-0.09	-0.09
-0.21	-0.21	-0.21	-0.21	-0.21
0.13	0.13	0.13	0.13	0.13
0.09	0.09	0.09	0.09	0.09
-0.18	-0.18	-0.18	-0.18	-0.18
-0.11	-0.11	-0.11	-0.11	-0.11
-0.12	-0.12	-0.12	-0.12	-0.12
-0.11	-0.11	-0.11	-0.11	-0.11
-0.19	-0.19	-0.19	-0.19	-0.19
0.14	0.14	0.14	0.14	0.14
0.08	0.08	0.08	0.08	0.08
-0.11	-0.11	-0.11	-0.11	-0.11
-0.10	-0.10	-0.10	-0.10	-0.10
-0.15	-0.15	-0.15	-0.15	-0.15
-0.29	-0.29	-0.29	-0.29	-0.29
0.09	0.09	0.09	0.09	0.09
0.07	0.07	0.07	0.07	0.07
-0.17	-0.17	-0.17	-0.17	-0.17
0.12	0.12	0.12	0.12	0.12
-0.11	-0.11	-0.11	-0.11	-0.11
-0.12	-0.12	-0.12	-0.12	-0.12
-0.21	-0.21	-0.21	-0.21	-0.21
-0.13	-0.13	-0.13	-0.13	-0.13
0.15	0.15	0.15	0.15	0.15
0.21	0.21	0.21	0.21	0.21

0.09	0.09	0.09	0.09	0.09
0.12	0.12	0.12	0.12	0.12
-0.09	-0.09	-0.09	-0.09	-0.09
-0.12	-0.12	-0.12	-0.12	-0.12
0.09	0.09	0.09	0.09	0.09
-0.13	-0.13	-0.13	-0.13	-0.13
-0.08	-0.08	-0.08	-0.08	-0.08
0.08	0.08	0.08	0.08	0.08
-0.09	-0.09	-0.09	-0.09	-0.09
-0.10	-0.10	-0.10	-0.10	-0.10
0.10	0.10	0.10	0.10	0.10
-0.19	-0.19	-0.19	-0.19	-0.19
-0.09	-0.09	-0.09	-0.09	-0.09
-0.09	-0.09	-0.09	-0.09	-0.09
-0.20	-0.20	-0.20	-0.20	-0.20
-0.08	-0.08	-0.08	-0.08	-0.08
-0.21	-0.21	-0.21	-0.21	-0.21
-0.26	-0.26	-0.26	-0.26	-0.26
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-0.11	-0.11	-0.11	-0.11	-0.11
-0.12	-0.12	-0.12	-0.12	-0.12
0.11	0.11	0.11	0.11	0.11
-0.09	-0.09	-0.09	-0.09	-0.09
0.20	0.20	0.20	0.20	0.20
0.16	0.16	0.16	0.16	0.16
-0.10	-0.10	-0.10	-0.10	-0.10
-0.11	-0.11	-0.11	-0.11	-0.11
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0.17	0.17	0.17	0.17	0.17
-0.08	-0.08	-0.08	-0.08	-0.08
-0.08	-0.08	-0.08	-0.08	-0.08
0.13	0.13	0.13	0.13	0.13
0.15	0.15	0.15	0.15	0.15
0.07	0.07	0.07	0.07	0.07
0.11	0.11	0.11	0.11	0.11
-0.13	-0.13	-0.13	-0.13	-0.13
0.09	0.09	0.09	0.09	0.09
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0.15	0.15	0.15	0.15	0.15
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0.16	0.16	0.16	0.16	0.16
-0.10	-0.10	-0.10	-0.10	-0.10
0.10	0.10	0.10	0.10	0.10
0.08	0.08	0.08	0.08	0.08
-0.18	-0.18	-0.18	-0.18	-0.18
-0.20	-0.20	-0.20	-0.20	-0.20
-0.10	-0.10	-0.10	-0.10	-0.10
-0.10	-0.10	-0.10	-0.10	-0.10
-0.09	-0.09	-0.09	-0.09	-0.09
0.12	0.12	0.12	0.12	0.12
0.09	0.09	0.09	0.09	0.09
-0.12	-0.12	-0.12	-0.12	-0.12

-0.11	-0.11	-0.11	-0.11	-0.11
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0.13	0.13	0.13	0.13	0.13
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-0.08	-0.08	-0.08	-0.08	-0.08
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-0.15	-0.15	-0.15	-0.15	-0.15
-0.14	-0.14	-0.14	-0.14	-0.14
0.12	0.12	0.12	0.12	0.12
0.28	0.28	0.28	0.28	0.28
-0.23	-0.23	-0.23	-0.23	-0.23
-0.21	-0.21	-0.21	-0.21	-0.21
-0.12	-0.12	-0.12	-0.12	-0.12
0.17	0.17	0.17	0.17	0.17
0.08	0.08	0.08	0.08	0.08
-0.12	-0.12	-0.12	-0.12	-0.12
0.08	0.08	0.08	0.08	0.08
0.10	0.10	0.10	0.10	0.10
0.18	0.18	0.18	0.18	0.18
-0.10	-0.10	-0.10	-0.10	-0.10
-0.08	-0.08	-0.08	-0.08	-0.08
-0.11	-0.11	-0.11	-0.11	-0.11
0.13	0.13	0.13	0.13	0.13
0.11	0.11	0.11	0.11	0.11
0.08	0.08	0.08	0.08	0.08
-0.12	-0.12	-0.12	-0.12	-0.12
0.15	0.15	0.15	0.15	0.15
-0.11	-0.11	-0.11	-0.11	-0.11
0.07	0.07	0.07	0.07	0.07
0.14	0.14	0.14	0.14	0.14
-0.18	-0.18	-0.18	-0.18	-0.18
-0.22	-0.22	-0.22	-0.22	-0.22
-0.06	-0.06	-0.06	-0.06	-0.06
-0.15	-0.15	-0.15	-0.15	-0.15
-0.16	-0.16	-0.16	-0.16	-0.16
0.09	0.09	0.09	0.09	0.09
-0.08	-0.08	-0.08	-0.08	-0.08
-0.08	-0.08	-0.08	-0.08	-0.08
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-0.09	-0.09	-0.09	-0.09	-0.09
-0.17	-0.17	-0.17	-0.17	-0.17
-0.23	-0.23	-0.23	-0.23	-0.23
0.21	0.21	0.21	0.21	0.21
-0.16	-0.16	-0.16	-0.16	-0.16
-0.21	-0.21	-0.21	-0.21	-0.21
-0.19	-0.19	-0.19	-0.19	-0.19

0.21	0.21	0.21	0.21	0.21
-0.15	-0.15	-0.15	-0.15	-0.15
0.16	0.16	0.16	0.16	0.16
-0.10	-0.10	-0.10	-0.10	-0.10
0.09	0.09	0.09	0.09	0.09
-0.09	-0.09	-0.09	-0.09	-0.09
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0.15	0.15	0.15	0.15	0.15
-0.15	-0.15	-0.15	-0.15	-0.15
-0.15	-0.15	-0.15	-0.15	-0.15
-0.14	-0.14	-0.14	-0.14	-0.14
0.08	0.08	0.08	0.08	0.08
0.08	0.08	0.08	0.08	0.08
-0.19	-0.19	-0.19	-0.19	-0.19
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0.08	0.08	0.08	0.08	0.08
0.10	0.10	0.10	0.10	0.10
0.20	0.20	0.20	0.20	0.20
0.10	0.10	0.10	0.10	0.10
-0.11	-0.11	-0.11	-0.11	-0.11
-0.24	-0.24	-0.24	-0.24	-0.24
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0.14	0.14	0.14	0.14	0.14
-0.11	-0.11	-0.11	-0.11	-0.11
0.16	0.16	0.16	0.16	0.16
0.10	0.10	0.10	0.10	0.10
-0.20	-0.20	-0.20	-0.20	-0.20
0.12	0.12	0.12	0.12	0.12
0.13	0.13	0.13	0.13	0.13
0.15	0.15	0.15	0.15	0.15
0.06	0.06	0.06	0.06	0.06
0.08	0.08	0.08	0.08	0.08
-0.10	-0.10	-0.10	-0.10	-0.10
-0.10	-0.10	-0.10	-0.10	-0.10
0.10	0.10	0.10	0.10	0.10
0.11	0.11	0.11	0.11	0.11
-0.21	-0.21	-0.21	-0.21	-0.21
0.17	0.17	0.17	0.17	0.17
-0.18	-0.18	-0.18	-0.18	-0.18
0.10	0.10	0.10	0.10	0.10
0.07	0.07	0.07	0.07	0.07
-0.11	-0.11	-0.11	-0.11	-0.11
-0.14	-0.14	-0.14	-0.14	-0.14
-0.11	-0.11	-0.11	-0.11	-0.11
-0.20	-0.20	-0.20	-0.20	-0.20
0.10	0.10	0.10	0.10	0.10
-0.14	-0.14	-0.14	-0.14	-0.14
-0.19	-0.19	-0.19	-0.19	-0.19
0.09	0.09	0.09	0.09	0.09
0.28	0.28	0.28	0.28	0.28
0.09	0.09	0.09	0.09	0.09
-0.13	-0.13	-0.13	-0.13	-0.13
-0.23	-0.23	-0.23	-0.23	-0.23

-0.12	-0.12	-0.12	-0.12	-0.12
-0.12	-0.12	-0.12	-0.12	-0.12
-0.20	-0.20	-0.20	-0.20	-0.20
-0.12	-0.12	-0.12	-0.12	-0.12
-0.21	-0.21	-0.21	-0.21	-0.21
0.19	0.19	0.19	0.19	0.19
0.12	0.12	0.12	0.12	0.12
-0.10	-0.10	-0.10	-0.10	-0.10
-0.16	-0.16	-0.16	-0.16	-0.16
-0.13	-0.13	-0.13	-0.13	-0.13
-0.14	-0.14	-0.14	-0.14	-0.14
-0.08	-0.08	-0.08	-0.08	-0.08
-0.20	-0.20	-0.20	-0.20	-0.20
0.09	0.09	0.09	0.09	0.09
-0.07	-0.07	-0.07	-0.07	-0.07
0.10	0.10	0.10	0.10	0.10
0.10	0.10	0.10	0.10	0.10
0.11	0.11	0.11	0.11	0.11
0.09	0.09	0.09	0.09	0.09
0.09	0.09	0.09	0.09	0.09
-0.09	-0.09	-0.09	-0.09	-0.09
0.13	0.13	0.13	0.13	0.13
0.07	0.07	0.07	0.07	0.07
0.09	0.09	0.09	0.09	0.09
-0.09	-0.09	-0.09	-0.09	-0.09
-0.10	-0.10	-0.10	-0.10	-0.10
0.09	0.09	0.09	0.09	0.09
0.12	0.12	0.12	0.12	0.12
-0.11	-0.11	-0.11	-0.11	-0.11
-0.14	-0.14	-0.14	-0.14	-0.14
0.14	0.14	0.14	0.14	0.14
0.15	0.15	0.15	0.15	0.15
-0.17	-0.17	-0.17	-0.17	-0.17
0.16	0.16	0.16	0.16	0.16
0.19	0.19	0.19	0.19	0.19
0.10	0.10	0.10	0.10	0.10
0.14	0.14	0.14	0.14	0.14
-0.15	-0.15	-0.15	-0.15	-0.15
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-0.24	-0.24	-0.24	-0.24	-0.24
-0.15	-0.15	-0.15	-0.15	-0.15
0.16	0.16	0.16	0.16	0.16
-0.09	-0.09	-0.09	-0.09	-0.09
0.10	0.10	0.10	0.10	0.10
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-0.10	-0.10	-0.10	-0.10	-0.10
-0.11	-0.11	-0.11	-0.11	-0.11
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0.13	0.13	0.13	0.13	0.13
0.13	0.13	0.13	0.13	0.13
-0.17	-0.17	-0.17	-0.17	-0.17
-0.07	-0.07	-0.07	-0.07	-0.07

0.09	0.09	0.09	0.09	0.09
0.06	0.06	0.06	0.06	0.06
0.12	0.12	0.12	0.12	0.12
0.08	0.08	0.08	0.08	0.08
0.14	0.14	0.14	0.14	0.14
-0.08	-0.08	-0.08	-0.08	-0.08
-0.11	-0.11	-0.11	-0.11	-0.11
-0.12	-0.12	-0.12	-0.12	-0.12
-0.09	-0.09	-0.09	-0.09	-0.09
0.07	0.07	0.07	0.07	0.07
-0.10	-0.10	-0.10	-0.10	-0.10
-0.11	-0.11	-0.11	-0.11	-0.11
0.16	0.16	0.16	0.16	0.16
0.16	0.16	0.16	0.16	0.16
0.12	0.12	0.12	0.12	0.12
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0.22	0.22	0.22	0.22	0.22
-0.24	-0.24	-0.24	-0.24	-0.24
0.07	0.07	0.07	0.07	0.07
-0.13	-0.13	-0.13	-0.13	-0.13
0.16	0.16	0.16	0.16	0.16
-0.14	-0.14	-0.14	-0.14	-0.14
0.10	0.10	0.10	0.10	0.10
0.19	0.19	0.19	0.19	0.19
-0.12	-0.12	-0.12	-0.12	-0.12
-0.12	-0.12	-0.12	-0.12	-0.12
0.11	0.11	0.11	0.11	0.11
0.11	0.11	0.11	0.11	0.11
0.10	0.10	0.10	0.10	0.10
0.21	0.21	0.21	0.21	0.21
-0.09	-0.09	-0.09	-0.09	-0.09
-0.08	-0.08	-0.08	-0.08	-0.08
0.11	0.11	0.11	0.11	0.11
-0.10	-0.10	-0.10	-0.10	-0.10
-0.12	-0.12	-0.12	-0.12	-0.12
-0.06	-0.06	-0.06	-0.06	-0.06
0.10	0.10	0.10	0.10	0.10
0.12	0.12	0.12	0.12	0.12
0.09	0.09	0.09	0.09	0.09
0.15	0.15	0.15	0.15	0.15
0.10	0.10	0.10	0.10	0.10
-0.18	-0.18	-0.18	-0.18	-0.18
-0.13	-0.13	-0.13	-0.13	-0.13
-0.13	-0.13	-0.13	-0.13	-0.13
0.09	0.09	0.09	0.09	0.09
0.11	0.11	0.11	0.11	0.11
-0.11	-0.11	-0.11	-0.11	-0.11
-0.17	-0.17	-0.17	-0.17	-0.17
-0.15	-0.15	-0.15	-0.15	-0.15
0.12	0.12	0.12	0.12	0.12
0.12	0.12	0.12	0.12	0.12
0.10	0.10	0.10	0.10	0.10
-0.19	-0.19	-0.19	-0.19	-0.19

-0.11	-0.11	-0.11	-0.11	-0.11
-0.14	-0.14	-0.14	-0.14	-0.14
-0.10	-0.10	-0.10	-0.10	-0.10
-0.21	-0.21	-0.21	-0.21	-0.21
0.11	0.11	0.11	0.11	0.11
-0.12	-0.12	-0.12	-0.12	-0.12
0.15	0.15	0.15	0.15	0.15
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0.21	0.21	0.21	0.21	0.21
-0.12	-0.12	-0.12	-0.12	-0.12
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-0.09	-0.09	-0.09	-0.09	-0.09
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0.11	0.11	0.11	0.11	0.11
0.11	0.11	0.11	0.11	0.11
-0.20	-0.20	-0.20	-0.20	-0.20
-0.12	-0.12	-0.12	-0.12	-0.12
-0.13	-0.13	-0.13	-0.13	-0.13
0.11	0.11	0.11	0.11	0.11
-0.18	-0.18	-0.18	-0.18	-0.18
-0.09	-0.09	-0.09	-0.09	-0.09
0.08	0.08	0.08	0.08	0.08
-0.16	-0.16	-0.16	-0.16	-0.16
0.11	0.11	0.11	0.11	0.11
0.08	0.08	0.08	0.08	0.08
0.10	0.10	0.10	0.10	0.10
-0.11	-0.11	-0.11	-0.11	-0.11
-0.18	-0.18	-0.18	-0.18	-0.18
-0.15	-0.15	-0.15	-0.15	-0.15
-0.16	-0.16	-0.16	-0.16	-0.16
0.09	0.09	0.09	0.09	0.09
-0.08	-0.08	-0.08	-0.08	-0.08
-0.08	-0.08	-0.08	-0.08	-0.08
-0.12	-0.12	-0.12	-0.12	-0.12
-0.10	-0.10	-0.10	-0.10	-0.10
0.16	0.16	0.16	0.16	0.16
-0.24	-0.24	-0.24	-0.24	-0.24
-0.12	-0.12	-0.12	-0.12	-0.12
-0.10	-0.10	-0.10	-0.10	-0.10
0.16	0.16	0.16	0.16	0.16
0.13	0.13	0.13	0.13	0.13
-0.19	-0.19	-0.19	-0.19	-0.19
0.09	0.09	0.09	0.09	0.09
0.07	0.07	0.07	0.07	0.07
0.10	0.10	0.10	0.10	0.10
0.12	0.12	0.12	0.12	0.12
-0.25	-0.25	-0.25	-0.25	-0.25
-0.14	-0.14	-0.14	-0.14	-0.14
-0.08	-0.08	-0.08	-0.08	-0.08

-0.17	-0.17	-0.17	-0.17	-0.17
-0.30	-0.30	-0.30	-0.30	-0.30
-0.10	-0.10	-0.10	-0.10	-0.10
-0.14	-0.14	-0.14	-0.14	-0.14
-0.13	-0.13	-0.13	-0.13	-0.13
-0.24	-0.24	-0.24	-0.24	-0.24
-0.10	-0.10	-0.10	-0.10	-0.10
0.08	0.08	0.08	0.08	0.08
0.15	0.15	0.15	0.15	0.15
0.15	0.15	0.15	0.15	0.15
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-0.08	-0.08	-0.08	-0.08	-0.08
-0.08	-0.08	-0.08	-0.08	-0.08
0.08	0.08	0.08	0.08	0.08
-0.11	-0.11	-0.11	-0.11	-0.11
0.11	0.11	0.11	0.11	0.11
0.09	0.09	0.09	0.09	0.09
-0.16	-0.16	-0.16	-0.16	-0.16
-0.11	-0.11	-0.11	-0.11	-0.11
-0.15	-0.15	-0.15	-0.15	-0.15
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-0.14	-0.14	-0.14	-0.14	-0.14
-0.07	-0.07	-0.07	-0.07	-0.07
0.10	0.10	0.10	0.10	0.10
0.13	0.13	0.13	0.13	0.13
-0.20	-0.20	-0.20	-0.20	-0.20
-0.14	-0.14	-0.14	-0.14	-0.14
0.19	0.19	0.19	0.19	0.19
0.12	0.12	0.12	0.12	0.12
0.09	0.09	0.09	0.09	0.09
-0.15	-0.15	-0.15	-0.15	-0.15
0.08	0.08	0.08	0.08	0.08
0.16	0.16	0.16	0.16	0.16
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-0.22	-0.22	-0.22	-0.22	-0.22
-0.16	-0.16	-0.16	-0.16	-0.16
-0.13	-0.13	-0.13	-0.13	-0.13
-0.16	-0.16	-0.16	-0.16	-0.16
-0.08	-0.08	-0.08	-0.08	-0.08
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-0.14	-0.14	-0.14	-0.14	-0.14
-0.11	-0.11	-0.11	-0.11	-0.11
-0.16	-0.16	-0.16	-0.16	-0.16
0.09	0.09	0.09	0.09	0.09
-0.15	-0.15	-0.15	-0.15	-0.15
-0.12	-0.12	-0.12	-0.12	-0.12
-0.19	-0.19	-0.19	-0.19	-0.19

0.12	0.12	0.12	0.12	0.12
-0.13	-0.13	-0.13	-0.13	-0.13
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-0.09	-0.09	-0.09	-0.09	-0.09
-0.21	-0.21	-0.21	-0.21	-0.21
0.09	0.09	0.09	0.09	0.09
-0.15	-0.15	-0.15	-0.15	-0.15
0.08	0.08	0.08	0.08	0.08
-0.09	-0.09	-0.09	-0.09	-0.09
0.10	0.10	0.10	0.10	0.10
-0.15	-0.15	-0.15	-0.15	-0.15
-0.26	-0.26	-0.26	-0.26	-0.26
0.09	0.09	0.09	0.09	0.09
0.10	0.10	0.10	0.10	0.10
0.21	0.21	0.21	0.21	0.21
-0.21	-0.21	-0.21	-0.21	-0.21
-0.26	-0.26	-0.26	-0.26	-0.26
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0.18	0.18	0.18	0.18	0.18
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0.10	0.10	0.10	0.10	0.10
0.14	0.14	0.14	0.14	0.14
-0.19	-0.19	-0.19	-0.19	-0.19
0.10	0.10	0.10	0.10	0.10
-0.27	-0.27	-0.27	-0.27	-0.27
-0.14	-0.14	-0.14	-0.14	-0.14
-0.18	-0.18	-0.18	-0.18	-0.18
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-0.24	-0.24	-0.24	-0.24	-0.24
-0.20	-0.20	-0.20	-0.20	-0.20
-0.27	-0.27	-0.27	-0.27	-0.27
0.09	0.09	0.09	0.09	0.09
0.24	0.24	0.24	0.24	0.24
0.14	0.14	0.14	0.14	0.14
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-0.08	-0.08	-0.08	-0.08	-0.08
-0.07	-0.07	-0.07	-0.07	-0.07
-0.23	-0.23	-0.23	-0.23	-0.23

0.12	0.12	0.12	0.12	0.12
-0.13	-0.13	-0.13	-0.13	-0.13
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-0.17	-0.17	-0.17	-0.17	-0.17
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-0.10	-0.10	-0.10	-0.10	-0.10
-0.09	-0.09	-0.09	-0.09	-0.09
-0.21	-0.21	-0.21	-0.21	-0.21
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0.08	0.08	0.08	0.08	0.08
-0.09	-0.09	-0.09	-0.09	-0.09
0.10	0.10	0.10	0.10	0.10
-0.15	-0.15	-0.15	-0.15	-0.15
-0.26	-0.26	-0.26	-0.26	-0.26
0.09	0.09	0.09	0.09	0.09
0.10	0.10	0.10	0.10	0.10
0.21	0.21	0.21	0.21	0.21
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0.18	0.18	0.18	0.18	0.18
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0.11	0.11	0.11	0.11	0.11
-0.16	-0.16	-0.16	-0.16	-0.16
0.12	0.12	0.12	0.12	0.12
0.11	0.11	0.11	0.11	0.11
-0.21	-0.21	-0.21	-0.21	-0.21
-0.14	-0.14	-0.14	-0.14	-0.14
0.10	0.10	0.10	0.10	0.10
0.10	0.10	0.10	0.10	0.10
0.14	0.14	0.14	0.14	0.14
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0.10	0.10	0.10	0.10	0.10
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-0.18	-0.18	-0.18	-0.18	-0.18
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-0.27	-0.27	-0.27	-0.27	-0.27
0.09	0.09	0.09	0.09	0.09
0.24	0.24	0.24	0.24	0.24
0.14	0.14	0.14	0.14	0.14
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0.08	0.08	0.08	0.08	0.08
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-0.08	-0.08	-0.08	-0.08	-0.08
0.08	0.08	0.08	0.08	0.08
0.10	0.10	0.10	0.10	0.10
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0.12	0.12	0.12	0.12	0.12
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0.09	0.09	0.09	0.09	0.09
0.13	0.13	0.13	0.13	0.13
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0.08	0.08	0.08	0.08	0.08
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-0.18	-0.18	-0.18	-0.18	-0.18
0.09	0.09	0.09	0.09	0.09
-0.12	-0.12	-0.12	-0.12	-0.12
0.10	0.10	0.10	0.10	0.10
0.18	0.18	0.18	0.18	0.18
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-0.09	-0.09	-0.09	-0.09	-0.09
0.09	0.09	0.09	0.09	0.09
-0.09	-0.09	-0.09	-0.09	-0.09
-0.10	-0.10	-0.10	-0.10	-0.10
0.07	0.07	0.07	0.07	0.07
0.12	0.12	0.12	0.12	0.12
-0.09	-0.09	-0.09	-0.09	-0.09
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-0.11	-0.11	-0.11	-0.11	-0.11
0.09	0.09	0.09	0.09	0.09

0.10	0.10	0.10	0.10	0.10
0.11	0.11	0.11	0.11	0.11
0.12	0.12	0.12	0.12	0.12
0.08	0.08	0.08	0.08	0.08
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-0.12	-0.12	-0.12	-0.12	-0.12
0.16	0.16	0.16	0.16	0.16
0.08	0.08	0.08	0.08	0.08
0.14	0.14	0.14	0.14	0.14
0.15	0.15	0.15	0.15	0.15
0.10	0.10	0.10	0.10	0.10
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-0.10	-0.10	-0.10	-0.10	-0.10
-0.12	-0.12	-0.12	-0.12	-0.12
0.14	0.14	0.14	0.14	0.14
0.16	0.16	0.16	0.16	0.16
-0.17	-0.17	-0.17	-0.17	-0.17
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0.18	0.18	0.18	0.18	0.18
0.11	0.11	0.11	0.11	0.11
-0.21	-0.21	-0.21	-0.21	-0.21
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0.07	0.07	0.07	0.07	0.07
0.08	0.08	0.08	0.08	0.08
0.08	0.08	0.08	0.08	0.08
-0.12	-0.12	-0.12	-0.12	-0.12
0.24	0.24	0.24	0.24	0.24
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-0.21	-0.21	-0.21	-0.21	-0.21
-0.17	-0.17	-0.17	-0.17	-0.17
0.20	0.20	0.20	0.20	0.20
0.11	0.11	0.11	0.11	0.11
0.13	0.13	0.13	0.13	0.13
0.08	0.08	0.08	0.08	0.08
-0.10	-0.10	-0.10	-0.10	-0.10
0.09	0.09	0.09	0.09	0.09
0.11	0.11	0.11	0.11	0.11
0.07	0.07	0.07	0.07	0.07
-0.11	-0.11	-0.11	-0.11	-0.11
0.11	0.11	0.11	0.11	0.11
-0.07	-0.07	-0.07	-0.07	-0.07
-0.10	-0.10	-0.10	-0.10	-0.10
0.08	0.08	0.08	0.08	0.08
-0.11	-0.11	-0.11	-0.11	-0.11
-0.12	-0.12	-0.12	-0.12	-0.12
-0.15	-0.15	-0.15	-0.15	-0.15

-0.19	-0.19	-0.19	-0.19	-0.19
-0.08	-0.08	-0.08	-0.08	-0.08
0.10	0.10	0.10	0.10	0.10
-0.17	-0.17	-0.17	-0.17	-0.17
0.16	0.16	0.16	0.16	0.16
0.10	0.10	0.10	0.10	0.10
-0.12	-0.12	-0.12	-0.12	-0.12
0.13	0.13	0.13	0.13	0.13
-0.10	-0.10	-0.10	-0.10	-0.10
-0.08	-0.08	-0.08	-0.08	-0.08
0.17	0.17	0.17	0.17	0.17
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0.21	0.21	0.21	0.21	0.21
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-0.11	-0.11	-0.11	-0.11	-0.11
-0.08	-0.08	-0.08	-0.08	-0.08
0.10	0.10	0.10	0.10	0.10
-0.19	-0.19	-0.19	-0.19	-0.19
0.08	0.08	0.08	0.08	0.08
-0.16	-0.16	-0.16	-0.16	-0.16
-0.12	-0.12	-0.12	-0.12	-0.12
-0.08	-0.08	-0.08	-0.08	-0.08
-0.08	-0.08	-0.08	-0.08	-0.08
0.08	0.08	0.08	0.08	0.08
0.10	0.10	0.10	0.10	0.10
-0.10	-0.10	-0.10	-0.10	-0.10
0.10	0.10	0.10	0.10	0.10
0.07	0.07	0.07	0.07	0.07
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-0.17	-0.17	-0.17	-0.17	-0.17
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-0.20	-0.20	-0.20	-0.20	-0.20
0.09	0.09	0.09	0.09	0.09
0.09	0.09	0.09	0.09	0.09
0.14	0.14	0.14	0.14	0.14
0.09	0.09	0.09	0.09	0.09
0.25	0.25	0.25	0.25	0.25
-0.12	-0.12	-0.12	-0.12	-0.12
0.18	0.18	0.18	0.18	0.18
0.10	0.10	0.10	0.10	0.10
-0.21	-0.21	-0.21	-0.21	-0.21
-0.17	-0.17	-0.17	-0.17	-0.17
-0.13	-0.13	-0.13	-0.13	-0.13
-0.16	-0.16	-0.16	-0.16	-0.16
-0.08	-0.08	-0.08	-0.08	-0.08
-0.12	-0.12	-0.12	-0.12	-0.12
-0.09	-0.09	-0.09	-0.09	-0.09

-0.11	-0.11	-0.11	-0.11	-0.11
0.09	0.09	0.09	0.09	0.09
-0.17	-0.17	-0.17	-0.17	-0.17
-0.15	-0.15	-0.15	-0.15	-0.15
-0.15	-0.15	-0.15	-0.15	-0.15
-0.10	-0.10	-0.10	-0.10	-0.10
0.12	0.12	0.12	0.12	0.12
-0.26	-0.26	-0.26	-0.26	-0.26
-0.13	-0.13	-0.13	-0.13	-0.13
-0.21	-0.21	-0.21	-0.21	-0.21
0.22	0.22	0.22	0.22	0.22
-0.13	-0.13	-0.13	-0.13	-0.13
-0.12	-0.12	-0.12	-0.12	-0.12
0.08	0.08	0.08	0.08	0.08
-0.09	-0.09	-0.09	-0.09	-0.09
-0.09	-0.09	-0.09	-0.09	-0.09
-0.07	-0.07	-0.07	-0.07	-0.07
0.13	0.13	0.13	0.13	0.13
-0.11	-0.11	-0.11	-0.11	-0.11
-0.08	-0.08	-0.08	-0.08	-0.08
-0.21	-0.21	-0.21	-0.21	-0.21
-0.12	-0.12	-0.12	-0.12	-0.12
0.09	0.09	0.09	0.09	0.09
-0.05	-0.05	-0.05	-0.05	-0.05
0.08	0.08	0.08	0.08	0.08
0.08	0.08	0.08	0.08	0.08
0.12	0.12	0.12	0.12	0.12
-0.08	-0.08	-0.08	-0.08	-0.08
-0.12	-0.12	-0.12	-0.12	-0.12
-0.12	-0.12	-0.12	-0.12	-0.12
-0.17	-0.17	-0.17	-0.17	-0.17
-0.10	-0.10	-0.10	-0.10	-0.10
-0.07	-0.07	-0.07	-0.07	-0.07
-0.18	-0.18	-0.18	-0.18	-0.18
-0.16	-0.16	-0.16	-0.16	-0.16
-0.16	-0.16	-0.16	-0.16	-0.16
0.10	0.10	0.10	0.10	0.10
-0.15	-0.15	-0.15	-0.15	-0.15
0.10	0.10	0.10	0.10	0.10
0.08	0.08	0.08	0.08	0.08
-0.11	-0.11	-0.11	-0.11	-0.11
-0.22	-0.22	-0.22	-0.22	-0.22
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-0.23	-0.23	-0.23	-0.23	-0.23
0.21	0.21	0.21	0.21	0.21
0.12	0.12	0.12	0.12	0.12
-0.21	-0.21	-0.21	-0.21	-0.21
-0.25	-0.25	-0.25	-0.25	-0.25
-0.19	-0.19	-0.19	-0.19	-0.19
0.08	0.08	0.08	0.08	0.08
-0.16	-0.16	-0.16	-0.16	-0.16
-0.21	-0.21	-0.21	-0.21	-0.21
0.14	0.14	0.14	0.14	0.14

-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
0.10	0.10	0.10	0.10	0.10	0.10
0.11	0.11	0.11	0.11	0.11	0.11
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
0.10	0.10	0.10	0.10	0.10	0.10
0.17	0.17	0.17	0.17	0.17	0.17
0.18	0.18	0.18	0.18	0.18	0.18
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
0.09	0.09	0.09	0.09	0.09	0.09
0.16	0.16	0.16	0.16	0.16	0.16
-0.23	-0.23	-0.23	-0.23	-0.23	-0.23
0.10	0.10	0.10	0.10	0.10	0.10
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
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-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
0.13	0.13	0.13	0.13	0.13	0.13
-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
0.08	0.08	0.08	0.08	0.08	0.08
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
0.13	0.13	0.13	0.13	0.13	0.13
-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
-0.25	-0.25	-0.25	-0.25	-0.25	-0.25
0.11	0.11	0.11	0.11	0.11	0.11
-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
0.20	0.20	0.20	0.20	0.20	0.20
-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
0.11	0.11	0.11	0.11	0.11	0.11
-0.34	-0.34	-0.34	-0.34	-0.34	-0.34
-0.24	-0.24	-0.24	-0.24	-0.24	-0.24
0.12	0.12	0.12	0.12	0.12	0.12
0.22	0.22	0.22	0.22	0.22	0.22
-0.26	-0.26	-0.26	-0.26	-0.26	-0.26
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
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-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
0.22	0.22	0.22	0.22	0.22	0.22
0.22	0.22	0.22	0.22	0.22	0.22
0.07	0.07	0.07	0.07	0.07	0.07
0.11	0.11	0.11	0.11	0.11	0.11
0.10	0.10	0.10	0.10	0.10	0.10
0.06	0.06	0.06	0.06	0.06	0.06
0.07	0.07	0.07	0.07	0.07	0.07
-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16

0.10	0.10	0.10	0.10	0.10
-0.12	-0.12	-0.12	-0.12	-0.12
-0.10	-0.10	-0.10	-0.10	-0.10
0.13	0.13	0.13	0.13	0.13
-0.32	-0.32	-0.32	-0.32	-0.32
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-0.11	-0.11	-0.11	-0.11	-0.11
-0.09	-0.09	-0.09	-0.09	-0.09
-0.11	-0.11	-0.11	-0.11	-0.11
-0.23	-0.23	-0.23	-0.23	-0.23
-0.14	-0.14	-0.14	-0.14	-0.14
0.10	0.10	0.10	0.10	0.10
-0.14	-0.14	-0.14	-0.14	-0.14
0.12	0.12	0.12	0.12	0.12
0.11	0.11	0.11	0.11	0.11
0.09	0.09	0.09	0.09	0.09
0.10	0.10	0.10	0.10	0.10
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0.14	0.14	0.14	0.14	0.14
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-0.11	-0.11	-0.11	-0.11	-0.11
0.16	0.16	0.16	0.16	0.16
0.10	0.10	0.10	0.10	0.10
-0.17	-0.17	-0.17	-0.17	-0.17
0.21	0.21	0.21	0.21	0.21
0.15	0.15	0.15	0.15	0.15
0.07	0.07	0.07	0.07	0.07
0.17	0.17	0.17	0.17	0.17
0.13	0.13	0.13	0.13	0.13
0.08	0.08	0.08	0.08	0.08
-0.17	-0.17	-0.17	-0.17	-0.17
0.17	0.17	0.17	0.17	0.17
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0.10	0.10	0.10	0.10	0.10
0.10	0.10	0.10	0.10	0.10
-0.16	-0.16	-0.16	-0.16	-0.16
-0.09	-0.09	-0.09	-0.09	-0.09
0.20	0.20	0.20	0.20	0.20
0.08	0.08	0.08	0.08	0.08
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-0.12	-0.12	-0.12	-0.12	-0.12
-0.13	-0.13	-0.13	-0.13	-0.13
0.09	0.09	0.09	0.09	0.09
-0.12	-0.12	-0.12	-0.12	-0.12
0.22	0.22	0.22	0.22	0.22
-0.21	-0.21	-0.21	-0.21	-0.21
0.13	0.13	0.13	0.13	0.13

0.16	0.16	0.16	0.16	0.16
-0.16	-0.16	-0.16	-0.16	-0.16
-0.08	-0.08	-0.08	-0.08	-0.08
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0.16	0.16	0.16	0.16	0.16
-0.09	-0.09	-0.09	-0.09	-0.09
0.16	0.16	0.16	0.16	0.16
-0.24	-0.24	-0.24	-0.24	-0.24
0.06	0.06	0.06	0.06	0.06
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0.17	0.17	0.17	0.17	0.17
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-0.10	-0.10	-0.10	-0.10	-0.10
0.09	0.09	0.09	0.09	0.09
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-0.24	-0.24	-0.24	-0.24	-0.24
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0.15	0.15	0.15	0.15	0.15
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-0.18	-0.18	-0.18	-0.18	-0.18
0.09	0.09	0.09	0.09	0.09
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0.12	0.12	0.12	0.12	0.12
0.12	0.12	0.12	0.12	0.12
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0.09	0.09	0.09	0.09	0.09
0.23	0.23	0.23	0.23	0.23
0.15	0.15	0.15	0.15	0.15
-0.08	-0.08	-0.08	-0.08	-0.08
0.08	0.08	0.08	0.08	0.08
0.15	0.15	0.15	0.15	0.15
0.12	0.12	0.12	0.12	0.12
-0.16	-0.16	-0.16	-0.16	-0.16
-0.15	-0.15	-0.15	-0.15	-0.15

0.09	0.09	0.09	0.09	0.09
-0.22	-0.22	-0.22	-0.22	-0.22
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0.12	0.12	0.12	0.12	0.12
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0.10	0.10	0.10	0.10	0.10
0.08	0.08	0.08	0.08	0.08
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0.19	0.19	0.19	0.19	0.19
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0.13	0.13	0.13	0.13	0.13
0.08	0.08	0.08	0.08	0.08
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0.09	0.09	0.09	0.09	0.09

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0.11	0.11	0.11	0.11	0.11
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0.18	0.18	0.18	0.18	0.18
0.10	0.10	0.10	0.10	0.10
0.12	0.12	0.12	0.12	0.12
-0.09	-0.09	-0.09	-0.09	-0.09
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0.17	0.17	0.17	0.17	0.17
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0.19	0.19	0.19	0.19	0.19
-0.20	-0.20	-0.20	-0.20	-0.20
0.14	0.14	0.14	0.14	0.14
0.09	0.09	0.09	0.09	0.09

0.08	0.08	0.08	0.08	0.08
-0.11	-0.11	-0.11	-0.11	-0.11
0.10	0.10	0.10	0.10	0.10
-0.19	-0.19	-0.19	-0.19	-0.19
-0.07	-0.07	-0.07	-0.07	-0.07
0.10	0.10	0.10	0.10	0.10
-0.15	-0.15	-0.15	-0.15	-0.15
-0.25	-0.25	-0.25	-0.25	-0.25
-0.11	-0.11	-0.11	-0.11	-0.11
0.12	0.12	0.12	0.12	0.12
-0.12	-0.12	-0.12	-0.12	-0.12
0.10	0.10	0.10	0.10	0.10
-0.17	-0.17	-0.17	-0.17	-0.17
-0.17	-0.17	-0.17	-0.17	-0.17
0.18	0.18	0.18	0.18	0.18
-0.09	-0.09	-0.09	-0.09	-0.09
0.15	0.15	0.15	0.15	0.15
0.16	0.16	0.16	0.16	0.16
-0.15	-0.15	-0.15	-0.15	-0.15
0.09	0.09	0.09	0.09	0.09
-0.17	-0.17	-0.17	-0.17	-0.17
-0.17	-0.17	-0.17	-0.17	-0.17
-0.08	-0.08	-0.08	-0.08	-0.08
0.20	0.20	0.20	0.20	0.20
0.15	0.15	0.15	0.15	0.15
-0.10	-0.10	-0.10	-0.10	-0.10
-0.11	-0.11	-0.11	-0.11	-0.11
-0.09	-0.09	-0.09	-0.09	-0.09
-0.17	-0.17	-0.17	-0.17	-0.17
0.10	0.10	0.10	0.10	0.10
-0.17	-0.17	-0.17	-0.17	-0.17
-0.13	-0.13	-0.13	-0.13	-0.13
-0.13	-0.13	-0.13	-0.13	-0.13
-0.12	-0.12	-0.12	-0.12	-0.12
0.12	0.12	0.12	0.12	0.12
0.11	0.11	0.11	0.11	0.11
0.07	0.07	0.07	0.07	0.07
-0.09	-0.09	-0.09	-0.09	-0.09
-0.10	-0.10	-0.10	-0.10	-0.10
0.11	0.11	0.11	0.11	0.11
-0.11	-0.11	-0.11	-0.11	-0.11
-0.14	-0.14	-0.14	-0.14	-0.14
-0.18	-0.18	-0.18	-0.18	-0.18
-0.11	-0.11	-0.11	-0.11	-0.11
-0.16	-0.16	-0.16	-0.16	-0.16
-0.08	-0.08	-0.08	-0.08	-0.08
-0.12	-0.12	-0.12	-0.12	-0.12
-0.12	-0.12	-0.12	-0.12	-0.12
0.18	0.18	0.18	0.18	0.18
-0.08	-0.08	-0.08	-0.08	-0.08
-0.17	-0.17	-0.17	-0.17	-0.17
0.14	0.14	0.14	0.14	0.14
0.10	0.10	0.10	0.10	0.10

0.09	0.09	0.09	0.09	0.09
0.20	0.20	0.20	0.20	0.20
0.12	0.12	0.12	0.12	0.12
0.15	0.15	0.15	0.15	0.15
0.24	0.24	0.24	0.24	0.24
0.12	0.12	0.12	0.12	0.12
0.14	0.14	0.14	0.14	0.14
-0.09	-0.09	-0.09	-0.09	-0.09
-0.15	-0.15	-0.15	-0.15	-0.15
-0.14	-0.14	-0.14	-0.14	-0.14
0.17	0.17	0.17	0.17	0.17
-0.16	-0.16	-0.16	-0.16	-0.16
0.09	0.09	0.09	0.09	0.09
-0.09	-0.09	-0.09	-0.09	-0.09
0.09	0.09	0.09	0.09	0.09
0.13	0.13	0.13	0.13	0.13
0.12	0.12	0.12	0.12	0.12
-0.14	-0.14	-0.14	-0.14	-0.14
-0.15	-0.15	-0.15	-0.15	-0.15
0.09	0.09	0.09	0.09	0.09
-0.08	-0.08	-0.08	-0.08	-0.08
-0.18	-0.18	-0.18	-0.18	-0.18
0.15	0.15	0.15	0.15	0.15
0.11	0.11	0.11	0.11	0.11
0.20	0.20	0.20	0.20	0.20
-0.22	-0.22	-0.22	-0.22	-0.22
0.14	0.14	0.14	0.14	0.14
0.10	0.10	0.10	0.10	0.10
0.15	0.15	0.15	0.15	0.15
-0.11	-0.11	-0.11	-0.11	-0.11
-0.12	-0.12	-0.12	-0.12	-0.12
-0.08	-0.08	-0.08	-0.08	-0.08
0.15	0.15	0.15	0.15	0.15
0.10	0.10	0.10	0.10	0.10
-0.13	-0.13	-0.13	-0.13	-0.13
0.12	0.12	0.12	0.12	0.12
-0.10	-0.10	-0.10	-0.10	-0.10
0.09	0.09	0.09	0.09	0.09
0.13	0.13	0.13	0.13	0.13
-0.07	-0.07	-0.07	-0.07	-0.07
0.12	0.12	0.12	0.12	0.12
-0.08	-0.08	-0.08	-0.08	-0.08
0.15	0.15	0.15	0.15	0.15
-0.16	-0.16	-0.16	-0.16	-0.16
-0.10	-0.10	-0.10	-0.10	-0.10
-0.12	-0.12	-0.12	-0.12	-0.12
0.24	0.24	0.24	0.24	0.24
-0.16	-0.16	-0.16	-0.16	-0.16
-0.07	-0.07	-0.07	-0.07	-0.07
0.08	0.08	0.08	0.08	0.08
-0.16	-0.16	-0.16	-0.16	-0.16
-0.15	-0.15	-0.15	-0.15	-0.15
0.09	0.09	0.09	0.09	0.09

-0.15	-0.15	-0.15	-0.15	-0.15
-0.09	-0.09	-0.09	-0.09	-0.09
-0.18	-0.18	-0.18	-0.18	-0.18
-0.20	-0.20	-0.20	-0.20	-0.20
0.12	0.12	0.12	0.12	0.12
0.14	0.14	0.14	0.14	0.14
0.10	0.10	0.10	0.10	0.10
-0.12	-0.12	-0.12	-0.12	-0.12
0.11	0.11	0.11	0.11	0.11
0.09	0.09	0.09	0.09	0.09
-0.15	-0.15	-0.15	-0.15	-0.15
-0.07	-0.07	-0.07	-0.07	-0.07
0.14	0.14	0.14	0.14	0.14
-0.26	-0.26	-0.26	-0.26	-0.26
-0.08	-0.08	-0.08	-0.08	-0.08
-0.11	-0.11	-0.11	-0.11	-0.11
-0.11	-0.11	-0.11	-0.11	-0.11
-0.15	-0.15	-0.15	-0.15	-0.15
-0.11	-0.11	-0.11	-0.11	-0.11
0.07	0.07	0.07	0.07	0.07
-0.11	-0.11	-0.11	-0.11	-0.11
-0.08	-0.08	-0.08	-0.08	-0.08
-0.22	-0.22	-0.22	-0.22	-0.22
0.07	0.07	0.07	0.07	0.07
-0.09	-0.09	-0.09	-0.09	-0.09
-0.10	-0.10	-0.10	-0.10	-0.10
-0.13	-0.13	-0.13	-0.13	-0.13
0.20	0.20	0.20	0.20	0.20
0.13	0.13	0.13	0.13	0.13
0.09	0.09	0.09	0.09	0.09
0.16	0.16	0.16	0.16	0.16
0.12	0.12	0.12	0.12	0.12
0.14	0.14	0.14	0.14	0.14
-0.15	-0.15	-0.15	-0.15	-0.15
0.14	0.14	0.14	0.14	0.14
0.20	0.20	0.20	0.20	0.20
0.08	0.08	0.08	0.08	0.08
0.08	0.08	0.08	0.08	0.08
0.10	0.10	0.10	0.10	0.10
0.14	0.14	0.14	0.14	0.14
0.11	0.11	0.11	0.11	0.11
0.08	0.08	0.08	0.08	0.08
-0.15	-0.15	-0.15	-0.15	-0.15
-0.10	-0.10	-0.10	-0.10	-0.10
0.07	0.07	0.07	0.07	0.07
0.15	0.15	0.15	0.15	0.15
-0.08	-0.08	-0.08	-0.08	-0.08
0.08	0.08	0.08	0.08	0.08
-0.19	-0.19	-0.19	-0.19	-0.19
0.09	0.09	0.09	0.09	0.09
0.07	0.07	0.07	0.07	0.07
0.12	0.12	0.12	0.12	0.12
0.16	0.16	0.16	0.16	0.16

0.11	0.11	0.11	0.11	0.11	0.11
0.10	0.10	0.10	0.10	0.10	0.10
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
0.08	0.08	0.08	0.08	0.08	0.08
0.17	0.17	0.17	0.17	0.17	0.17
0.07	0.07	0.07	0.07	0.07	0.07
-0.11	-0.11	-0.11	-0.11	-0.11	-0.11
0.09	0.09	0.09	0.09	0.09	0.09
-0.11	-0.11	-0.11	-0.11	-0.11	-0.11
0.11	0.11	0.11	0.11	0.11	0.11
0.11	0.11	0.11	0.11	0.11	0.11
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
0.10	0.10	0.10	0.10	0.10	0.10
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-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
0.11	0.11	0.11	0.11	0.11	0.11
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.29	-0.29	-0.29	-0.29	-0.29	-0.29
-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
0.17	0.17	0.17	0.17	0.17	0.17
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
0.07	0.07	0.07	0.07	0.07	0.07
-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
0.13	0.13	0.13	0.13	0.13	0.13
0.12	0.12	0.12	0.12	0.12	0.12
-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
0.14	0.14	0.14	0.14	0.14	0.14
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
0.11	0.11	0.11	0.11	0.11	0.11
0.12	0.12	0.12	0.12	0.12	0.12
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
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-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
0.12	0.12	0.12	0.12	0.12	0.12
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
0.10	0.10	0.10	0.10	0.10	0.10
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
0.10	0.10	0.10	0.10	0.10	0.10
0.09	0.09	0.09	0.09	0.09	0.09

0.07	0.07	0.07	0.07	0.07	0.07
0.08	0.08	0.08	0.08	0.08	0.08
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
0.10	0.10	0.10	0.10	0.10	0.10
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
0.09	0.09	0.09	0.09	0.09	0.09
-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
0.09	0.09	0.09	0.09	0.09	0.09
-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
-0.30	-0.30	-0.30	-0.30	-0.30	-0.30
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
0.16	0.16	0.16	0.16	0.16	0.16
0.10	0.10	0.10	0.10	0.10	0.10
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
0.10	0.10	0.10	0.10	0.10	0.10
0.09	0.09	0.09	0.09	0.09	0.09
-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
0.10	0.10	0.10	0.10	0.10	0.10
0.12	0.12	0.12	0.12	0.12	0.12
0.13	0.13	0.13	0.13	0.13	0.13
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-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
0.16	0.16	0.16	0.16	0.16	0.16
-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.22	-0.22	-0.22	-0.22	-0.22	-0.22
0.10	0.10	0.10	0.10	0.10	0.10
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
0.12	0.12	0.12	0.12	0.12	0.12
0.10	0.10	0.10	0.10	0.10	0.10
0.16	0.16	0.16	0.16	0.16	0.16
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
-0.11	-0.11	-0.11	-0.11	-0.11	-0.11
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
0.14	0.14	0.14	0.14	0.14	0.14
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
0.09	0.09	0.09	0.09	0.09	0.09
0.16	0.16	0.16	0.16	0.16	0.16
-0.22	-0.22	-0.22	-0.22	-0.22	-0.22
-0.11	-0.11	-0.11	-0.11	-0.11	-0.11

-0.29	-0.29	-0.29	-0.29	-0.29	-0.29
0.15	0.15	0.15	0.15	0.15	0.15
0.11	0.11	0.11	0.11	0.11	0.11
-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
0.11	0.11	0.11	0.11	0.11	0.11
-0.22	-0.22	-0.22	-0.22	-0.22	-0.22
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
0.10	0.10	0.10	0.10	0.10	0.10
-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
0.16	0.16	0.16	0.16	0.16	0.16
0.21	0.21	0.21	0.21	0.21	0.21
0.11	0.11	0.11	0.11	0.11	0.11
0.23	0.23	0.23	0.23	0.23	0.23
0.12	0.12	0.12	0.12	0.12	0.12
-0.25	-0.25	-0.25	-0.25	-0.25	-0.25
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
0.07	0.07	0.07	0.07	0.07	0.07
0.18	0.18	0.18	0.18	0.18	0.18
0.12	0.12	0.12	0.12	0.12	0.12
0.13	0.13	0.13	0.13	0.13	0.13
-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
0.08	0.08	0.08	0.08	0.08	0.08
0.11	0.11	0.11	0.11	0.11	0.11
-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
0.15	0.15	0.15	0.15	0.15	0.15
0.09	0.09	0.09	0.09	0.09	0.09
-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
0.09	0.09	0.09	0.09	0.09	0.09
0.18	0.18	0.18	0.18	0.18	0.18
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
0.10	0.10	0.10	0.10	0.10	0.10
-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
0.16	0.16	0.16	0.16	0.16	0.16
0.11	0.11	0.11	0.11	0.11	0.11
0.19	0.19	0.19	0.19	0.19	0.19
0.08	0.08	0.08	0.08	0.08	0.08
0.14	0.14	0.14	0.14	0.14	0.14
-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
0.07	0.07	0.07	0.07	0.07	0.07
0.10	0.10	0.10	0.10	0.10	0.10
-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
-0.21	-0.21	-0.21	-0.21	-0.21	-0.21

0.07	0.07	0.07	0.07	0.07	0.07
0.13	0.13	0.13	0.13	0.13	0.13
-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
0.14	0.14	0.14	0.14	0.14	0.14
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
0.12	0.12	0.12	0.12	0.12	0.12
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
0.10	0.10	0.10	0.10	0.10	0.10
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
0.14	0.14	0.14	0.14	0.14	0.14
-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
0.11	0.11	0.11	0.11	0.11	0.11
-0.24	-0.24	-0.24	-0.24	-0.24	-0.24
0.09	0.09	0.09	0.09	0.09	0.09
-0.11	-0.11	-0.11	-0.11	-0.11	-0.11
0.10	0.10	0.10	0.10	0.10	0.10
-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
0.12	0.12	0.12	0.12	0.12	0.12
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
0.10	0.10	0.10	0.10	0.10	0.10
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
-0.22	-0.22	-0.22	-0.22	-0.22	-0.22
0.07	0.07	0.07	0.07	0.07	0.07
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
-0.27	-0.27	-0.27	-0.27	-0.27	-0.27
0.08	0.08	0.08	0.08	0.08	0.08
0.15	0.15	0.15	0.15	0.15	0.15
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
0.13	0.13	0.13	0.13	0.13	0.13
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
0.07	0.07	0.07	0.07	0.07	0.07
-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
0.11	0.11	0.11	0.11	0.11	0.11
-0.26	-0.26	-0.26	-0.26	-0.26	-0.26
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
0.10	0.10	0.10	0.10	0.10	0.10
-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
0.10	0.10	0.10	0.10	0.10	0.10
0.12	0.12	0.12	0.12	0.12	0.12
0.09	0.09	0.09	0.09	0.09	0.09
-0.07	-0.07	-0.07	-0.07	-0.07	-0.07

0.09	0.09	0.09	0.09	0.09	0.09
-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
0.07	0.07	0.07	0.07	0.07	0.07
-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.11	-0.11	-0.11	-0.11	-0.11	-0.11
0.24	0.24	0.24	0.24	0.24	0.24
0.08	0.08	0.08	0.08	0.08	0.08
-0.27	-0.27	-0.27	-0.27	-0.27	-0.27
-0.24	-0.24	-0.24	-0.24	-0.24	-0.24
-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
0.15	0.15	0.15	0.15	0.15	0.15
-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
-0.11	-0.11	-0.11	-0.11	-0.11	-0.11
0.08	0.08	0.08	0.08	0.08	0.08
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
0.14	0.14	0.14	0.14	0.14	0.14
0.15	0.15	0.15	0.15	0.15	0.15
-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
0.09	0.09	0.09	0.09	0.09	0.09
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
0.16	0.16	0.16	0.16	0.16	0.16
0.13	0.13	0.13	0.13	0.13	0.13
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
0.07	0.07	0.07	0.07	0.07	0.07
-0.24	-0.24	-0.24	-0.24	-0.24	-0.24
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
0.10	0.10	0.10	0.10	0.10	0.10
0.09	0.09	0.09	0.09	0.09	0.09
-0.25	-0.25	-0.25	-0.25	-0.25	-0.25
0.09	0.09	0.09	0.09	0.09	0.09
0.16	0.16	0.16	0.16	0.16	0.16
-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
0.10	0.10	0.10	0.10	0.10	0.10
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
0.08	0.08	0.08	0.08	0.08	0.08
-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
0.10	0.10	0.10	0.10	0.10	0.10
-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
0.10	0.10	0.10	0.10	0.10	0.10
0.13	0.13	0.13	0.13	0.13	0.13

-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
0.09	0.09	0.09	0.09	0.09	0.09
0.15	0.15	0.15	0.15	0.15	0.15
0.08	0.08	0.08	0.08	0.08	0.08
-0.24	-0.24	-0.24	-0.24	-0.24	-0.24
-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
0.09	0.09	0.09	0.09	0.09	0.09
-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
0.13	0.13	0.13	0.13	0.13	0.13
0.12	0.12	0.12	0.12	0.12	0.12
0.10	0.10	0.10	0.10	0.10	0.10
-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
0.07	0.07	0.07	0.07	0.07	0.07
0.11	0.11	0.11	0.11	0.11	0.11
0.15	0.15	0.15	0.15	0.15	0.15
-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
0.23	0.23	0.23	0.23	0.23	0.23
0.18	0.18	0.18	0.18	0.18	0.18
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
0.07	0.07	0.07	0.07	0.07	0.07
-0.11	-0.11	-0.11	-0.11	-0.11	-0.11
-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
-0.11	-0.11	-0.11	-0.11	-0.11	-0.11
0.10	0.10	0.10	0.10	0.10	0.10
0.08	0.08	0.08	0.08	0.08	0.08
-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
0.09	0.09	0.09	0.09	0.09	0.09
0.10	0.10	0.10	0.10	0.10	0.10
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
0.13	0.13	0.13	0.13	0.13	0.13
0.11	0.11	0.11	0.11	0.11	0.11
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.11	-0.11	-0.11	-0.11	-0.11	-0.11
0.15	0.15	0.15	0.15	0.15	0.15
-0.26	-0.26	-0.26	-0.26	-0.26	-0.26
0.14	0.14	0.14	0.14	0.14	0.14
0.15	0.15	0.15	0.15	0.15	0.15
0.10	0.10	0.10	0.10	0.10	0.10
-0.24	-0.24	-0.24	-0.24	-0.24	-0.24
-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
0.09	0.09	0.09	0.09	0.09	0.09
-0.30	-0.30	-0.30	-0.30	-0.30	-0.30
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
0.17	0.17	0.17	0.17	0.17	0.17
0.15	0.15	0.15	0.15	0.15	0.15
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15

-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
0.09	0.09	0.09	0.09	0.09	0.09
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
0.14	0.14	0.14	0.14	0.14	0.14
0.19	0.19	0.19	0.19	0.19	0.19
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
0.09	0.09	0.09	0.09	0.09	0.09
0.08	0.08	0.08	0.08	0.08	0.08
0.10	0.10	0.10	0.10	0.10	0.10
0.07	0.07	0.07	0.07	0.07	0.07
0.08	0.08	0.08	0.08	0.08	0.08
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
0.09	0.09	0.09	0.09	0.09	0.09
0.10	0.10	0.10	0.10	0.10	0.10
0.12	0.12	0.12	0.12	0.12	0.12
-0.31	-0.31	-0.31	-0.31	-0.31	-0.31
0.10	0.10	0.10	0.10	0.10	0.10
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
0.23	0.23	0.23	0.23	0.23	0.23
0.15	0.15	0.15	0.15	0.15	0.15
0.08	0.08	0.08	0.08	0.08	0.08
-0.25	-0.25	-0.25	-0.25	-0.25	-0.25
-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
-0.28	-0.28	-0.28	-0.28	-0.28	-0.28
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
0.17	0.17	0.17	0.17	0.17	0.17
0.14	0.14	0.14	0.14	0.14	0.14
0.11	0.11	0.11	0.11	0.11	0.11
-0.23	-0.23	-0.23	-0.23	-0.23	-0.23
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
0.17	0.17	0.17	0.17	0.17	0.17
0.10	0.10	0.10	0.10	0.10	0.10
0.08	0.08	0.08	0.08	0.08	0.08
-0.23	-0.23	-0.23	-0.23	-0.23	-0.23
0.15	0.15	0.15	0.15	0.15	0.15
-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
-0.11	-0.11	-0.11	-0.11	-0.11	-0.11
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
0.17	0.17	0.17	0.17	0.17	0.17
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
0.21	0.21	0.21	0.21	0.21	0.21
-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
0.07	0.07	0.07	0.07	0.07	0.07
0.13	0.13	0.13	0.13	0.13	0.13
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09

-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
0.09	0.09	0.09	0.09	0.09	0.09
0.12	0.12	0.12	0.12	0.12	0.12
0.10	0.10	0.10	0.10	0.10	0.10
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
0.12	0.12	0.12	0.12	0.12	0.12
0.09	0.09	0.09	0.09	0.09	0.09
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.11	-0.11	-0.11	-0.11	-0.11	-0.11
0.14	0.14	0.14	0.14	0.14	0.14
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
0.16	0.16	0.16	0.16	0.16	0.16
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
0.10	0.10	0.10	0.10	0.10	0.10
-0.25	-0.25	-0.25	-0.25	-0.25	-0.25
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
0.11	0.11	0.11	0.11	0.11	0.11
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
0.18	0.18	0.18	0.18	0.18	0.18
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
0.12	0.12	0.12	0.12	0.12	0.12
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
0.08	0.08	0.08	0.08	0.08	0.08
0.18	0.18	0.18	0.18	0.18	0.18
-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
0.09	0.09	0.09	0.09	0.09	0.09
0.13	0.13	0.13	0.13	0.13	0.13
-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
0.25	0.25	0.25	0.25	0.25	0.25
-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
-0.11	-0.11	-0.11	-0.11	-0.11	-0.11
-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
0.08	0.08	0.08	0.08	0.08	0.08
0.10	0.10	0.10	0.10	0.10	0.10
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
0.21	0.21	0.21	0.21	0.21	0.21
-0.20	-0.20	-0.20	-0.20	-0.20	-0.20

-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
0.12	0.12	0.12	0.12	0.12	0.12
0.08	0.08	0.08	0.08	0.08	0.08
0.15	0.15	0.15	0.15	0.15	0.15
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
0.15	0.15	0.15	0.15	0.15	0.15
0.07	0.07	0.07	0.07	0.07	0.07
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
0.10	0.10	0.10	0.10	0.10	0.10
0.10	0.10	0.10	0.10	0.10	0.10
-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
0.15	0.15	0.15	0.15	0.15	0.15
-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
-0.24	-0.24	-0.24	-0.24	-0.24	-0.24
-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
-0.25	-0.25	-0.25	-0.25	-0.25	-0.25
0.13	0.13	0.13	0.13	0.13	0.13
0.10	0.10	0.10	0.10	0.10	0.10
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
0.10	0.10	0.10	0.10	0.10	0.10
-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
0.07	0.07	0.07	0.07	0.07	0.07
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
0.12	0.12	0.12	0.12	0.12	0.12
0.11	0.11	0.11	0.11	0.11	0.11
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
0.08	0.08	0.08	0.08	0.08	0.08
0.11	0.11	0.11	0.11	0.11	0.11
0.07	0.07	0.07	0.07	0.07	0.07
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
0.15	0.15	0.15	0.15	0.15	0.15
-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
0.08	0.08	0.08	0.08	0.08	0.08
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
0.08	0.08	0.08	0.08	0.08	0.08
0.15	0.15	0.15	0.15	0.15	0.15
-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
0.17	0.17	0.17	0.17	0.17	0.17
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
0.13	0.13	0.13	0.13	0.13	0.13
0.08	0.08	0.08	0.08	0.08	0.08
-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08

-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
0.09	0.09	0.09	0.09	0.09	0.09
-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
0.14	0.14	0.14	0.14	0.14	0.14
0.11	0.11	0.11	0.11	0.11	0.11
-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
0.15	0.15	0.15	0.15	0.15	0.15
0.15	0.15	0.15	0.15	0.15	0.15
0.09	0.09	0.09	0.09	0.09	0.09
0.17	0.17	0.17	0.17	0.17	0.17
-0.11	-0.11	-0.11	-0.11	-0.11	-0.11
-0.11	-0.11	-0.11	-0.11	-0.11	-0.11
0.12	0.12	0.12	0.12	0.12	0.12
-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
-0.23	-0.23	-0.23	-0.23	-0.23	-0.23
0.07	0.07	0.07	0.07	0.07	0.07
0.11	0.11	0.11	0.11	0.11	0.11
0.08	0.08	0.08	0.08	0.08	0.08
0.13	0.13	0.13	0.13	0.13	0.13
-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
-0.26	-0.26	-0.26	-0.26	-0.26	-0.26
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
0.09	0.09	0.09	0.09	0.09	0.09
0.12	0.12	0.12	0.12	0.12	0.12
0.08	0.08	0.08	0.08	0.08	0.08
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
0.14	0.14	0.14	0.14	0.14	0.14
0.12	0.12	0.12	0.12	0.12	0.12
-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
0.12	0.12	0.12	0.12	0.12	0.12
-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
-0.10	-0.10	-0.10	-0.10	-0.10	-0.10
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
0.12	0.12	0.12	0.12	0.12	0.12
-0.11	-0.11	-0.11	-0.11	-0.11	-0.11
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
0.11	0.11	0.11	0.11	0.11	0.11
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
-0.11	-0.11	-0.11	-0.11	-0.11	-0.11
-0.23	-0.23	-0.23	-0.23	-0.23	-0.23
0.13	0.13	0.13	0.13	0.13	0.13
-0.11	-0.11	-0.11	-0.11	-0.11	-0.11
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
0.12	0.12	0.12	0.12	0.12	0.12
-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
0.15	0.15	0.15	0.15	0.15	0.15

-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
-0.27	-0.27	-0.27	-0.27	-0.27	-0.27
0.07	0.07	0.07	0.07	0.07	0.07
-0.25	-0.25	-0.25	-0.25	-0.25	-0.25
-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
0.09	0.09	0.09	0.09	0.09	0.09
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
0.14	0.14	0.14	0.14	0.14	0.14
0.12	0.12	0.12	0.12	0.12	0.12
0.12	0.12	0.12	0.12	0.12	0.12
0.09	0.09	0.09	0.09	0.09	0.09
0.10	0.10	0.10	0.10	0.10	0.10
0.12	0.12	0.12	0.12	0.12	0.12
0.07	0.07	0.07	0.07	0.07	0.07
0.11	0.11	0.11	0.11	0.11	0.11
0.16	0.16	0.16	0.16	0.16	0.16
-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
0.10	0.10	0.10	0.10	0.10	0.10
0.10	0.10	0.10	0.10	0.10	0.10
-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
-0.33	-0.33	-0.33	-0.33	-0.33	-0.33
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
-0.37	-0.37	-0.37	-0.37	-0.37	-0.37
-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
-0.24	-0.24	-0.24	-0.24	-0.24	-0.24
0.07	0.07	0.07	0.07	0.07	0.07
-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
-0.11	-0.11	-0.11	-0.11	-0.11	-0.11
0.10	0.10	0.10	0.10	0.10	0.10
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
0.13	0.13	0.13	0.13	0.13	0.13
-0.12	-0.12	-0.12	-0.12	-0.12	-0.12
0.13	0.13	0.13	0.13	0.13	0.13
-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
0.08	0.08	0.08	0.08	0.08	0.08
-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
0.07	0.07	0.07	0.07	0.07	0.07
-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
0.08	0.08	0.08	0.08	0.08	0.08
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
-0.13	-0.13	-0.13	-0.13	-0.13	-0.13

0.13	0.13	0.13	0.13	0.13	0.13
0.09	0.09	0.09	0.09	0.09	0.09
-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
-0.22	-0.22	-0.22	-0.22	-0.22	-0.22
0.11	0.11	0.11	0.11	0.11	0.11
0.10	0.10	0.10	0.10	0.10	0.10
-0.21	-0.21	-0.21	-0.21	-0.21	-0.21
0.17	0.17	0.17	0.17	0.17	0.17
0.19	0.19	0.19	0.19	0.19	0.19
0.15	0.15	0.15	0.15	0.15	0.15
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
-0.16	-0.16	-0.16	-0.16	-0.16	-0.16
0.14	0.14	0.14	0.14	0.14	0.14
0.12	0.12	0.12	0.12	0.12	0.12
0.07	0.07	0.07	0.07	0.07	0.07
-0.13	-0.13	-0.13	-0.13	-0.13	-0.13
-0.09	-0.09	-0.09	-0.09	-0.09	-0.09
0.08	0.08	0.08	0.08	0.08	0.08

TABLE 32 - GENETIC MARKERS FOR TEAT PLACEMENT

A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
2	0.20	5.72E-04	2304	0.100	9.69E-03	4599	-0.20	6.74E-07	6784	0.10	9.66E-03	9091	0.10	2.95E-04	11772	0.17	1.12E-04
3	0.20	4.61E-06	2311	0.100	8.48E-06	4602	0.30	1.30E-15	6790	-0.10	1.01E-03	9092	-0.20	1.47E-05	11776	-0.11	8.92E-03
5	-0.20	9.98E-03	2318	-0.100	9.45E-03	4608	-0.20	1.10E-07	6794	0.10	3.50E-03	9095	-0.20	5.64E-03	11788	-0.19	4.16E-03
8	0.10	5.26E-03	2320	-0.200	4.55E-07	4609	-0.20	4.03E-04	6798	0.20	4.94E-03	9098	0.10	9.29E-04	11803	-0.13	3.61E-03
22	-0.20	2.31E-06	2321	-0.100	9.22E-03	4610	0.10	5.08E-04	6805	0.20	1.86E-04	9101	0.20	2.37E-08	11806	-0.16	3.49E-03
26	0.10	1.60E-03	2323	0.200	4.49E-06	4615	-0.30	2.90E-05	6806	-0.20	7.32E-05	9110	-0.20	7.27E-03	11809	-0.15	7.17E-04
35	-0.30	1.42E-11	2324	-0.200	2.70E-05	4616	-0.10	8.49E-03	6809	0.10	5.57E-03	9113	-0.20	7.74E-06	11818	-0.33	5.21E-08
36	-0.30	1.76E-06	2325	-0.200	1.08E-05	4619	-0.20	1.72E-07	6817	-0.30	1.61E-03	9120	-0.30	3.28E-03	11833	-0.15	5.74E-03
38	-0.20	2.86E-03	2328	0.100	6.23E-04	4620	0.10	2.10E-03	6818	-0.30	9.28E-13	9125	-0.40	2.89E-07	11847	0.14	5.74E-04
39	-0.60	2.89E-09	2329	-0.200	7.16E-08	4622	-0.10	2.05E-04	6820	-0.20	5.37E-03	9127	-0.20	4.10E-07	11856	0.12	1.40E-03
44	-0.20	1.84E-03	2330	0.100	6.52E-04	4626	-0.10	3.95E-03	6834	-0.10	2.12E-03	9129	0.30	1.13E-16	11862	0.21	1.46E-03
46	-0.20	1.17E-04	2335	-0.300	5.85E-16	4627	-0.30	6.94E-07	6839	0.30	6.48E-14	9132	-0.20	4.64E-08	11863	-0.15	4.80E-05
51	0.10	1.97E-03	2336	0.200	1.98E-06	4629	0.20	5.77E-07	6843	-0.20	4.16E-05	9135	-0.10	8.57E-03	11866	-0.14	4.35E-04
52	-0.20	1.84E-09	2343	0.100	3.32E-04	4633	-0.20	2.14E-03	6849	-0.30	3.02E-05	9136	-0.30	2.37E-03	11875	-0.30	1.94E-06
54	0.10	3.70E-03	2345	-0.100	4.95E-04	4634	-0.30	4.81E-08	6856	-0.10	1.88E-04	9138	0.30	2.78E-13	11879	-0.13	1.22E-03
55	0.20	5.93E-03	2353	0.100	1.51E-03	4643	0.20	2.27E-04	6866	0.20	2.70E-03	9140	0.30	3.17E-07	11888	-0.24	1.02E-03
57	0.10	3.57E-04	2360	-0.100	3.24E-03	4647	0.20	1.17E-05	6869	-0.20	1.52E-09	9155	-0.10	2.18E-03	11890	-0.15	1.79E-05
59	-0.40	1.68E-04	2362	-0.200	2.82E-06	4651	0.20	1.29E-05	6876	0.10	4.03E-03	9158	0.20	2.26E-08	11895	0.21	2.35E-03
61	-0.30	1.78E-06	2369	-0.100	3.44E-03	4654	-0.40	3.98E-15	6879	-0.20	3.46E-05	9160	-0.20	9.67E-06	11896	-0.16	7.27E-05
63	-0.20	3.14E-10	2371	-0.100	8.23E-03	4662	-0.20	3.14E-04	6886	-0.10	1.13E-03	9165	0.10	1.42E-06	11897	0.17	6.06E-05
66	-0.20	1.36E-06	2373	-0.300	3.84E-05	4664	0.20	1.37E-08	6887	-0.20	2.79E-08	9166	-0.20	5.21E-05	11898	-0.18	1.01E-05
67	0.20	5.99E-09	2379	0.100	9.48E-04	4669	-0.10	8.95E-04	6888	0.20	4.09E-04	9173	0.20	3.26E-06	11899	-0.14	1.83E-03
71	-0.20	4.37E-05	2383	-0.100	1.70E-03	4670	-0.20	2.98E-06	6889	-0.10	2.50E-03	9174	0.20	9.17E-04	11900	-0.25	5.37E-06
73	0.20	9.75E-07	2389	-0.300	1.09E-11	4671	-0.20	3.31E-08	6891	-0.10	9.85E-03	9178	-0.30	9.72E-08	11902	-0.33	3.71E-06
75	-0.10	6.91E-04	2390	-0.200	1.49E-05	4675	0.10	6.01E-03	6894	0.20	3.56E-07	9179	-0.30	5.00E-07	11903	0.15	3.76E-03
82	0.20	3.95E-03	2391	-0.100	5.72E-03	4677	-0.10	4.58E-03	6895	0.20	4.57E-05	9181	0.20	2.82E-04	11908	0.11	3.71E-03
86	0.20	1.59E-04	2393	-0.200	1.20E-10	4678	0.30	1.32E-08	6910	0.30	1.60E-07	9183	-0.20	3.18E-07	11915	-0.24	1.23E-09
93	-0.10	1.92E-03	2394	-0.200	1.01E-05	4679	-0.30	1.29E-15	6915	-0.10	1.15E-03	9188	0.10	5.38E-03	11918	0.21	1.14E-07
99	0.10	2.20E-04	2399	-0.200	1.19E-04	4683	-0.10	8.40E-04	6926	0.20	6.64E-05	9191	-0.20	5.51E-06	11929	0.14	5.04E-06
101	-0.30	1.38E-14	2400	0.200	1.74E-06	4689	-0.20	2.78E-06	6928	0.30	3.61E-09	9192	-0.30	1.29E-12	11930	0.13	4.73E-03
106	0.10	6.30E-04	2406	0.100	1.34E-04	4690	-0.40	5.89E-12	6936	-0.20	1.65E-04	9193	-0.30	1.67E-04	11934	-0.16	2.39E-04
120	-0.10	8.20E-03	2408	0.100	5.72E-03	4696	-0.20	1.18E-05	6939	0.10	1.88E-03	9194	0.20	9.61E-07	11936	-0.15	3.34E-05
131	0.30	1.10E-18	2410	-0.200	2.38E-04	4699	0.20	1.44E-06	6945	0.20	3.60E-08	9196	-0.10	7.85E-03	11940	-0.16	2.90E-05
132	-0.10	3.87E-03	2413	0.300	9.17E-10	4702	0.10	3.77E-05	6953	0.30	2.54E-12	9200	-0.20	1.36E-06	11945	0.13	3.57E-04
140	-0.10	1.13E-03	2414	0.300	7.01E-10	4708	-0.30	4.84E-08	6954	-0.10	3.54E-03	9204	-0.10	4.82E-03	11959	0.15	3.08E-03
150	-0.20	1.20E-04	2415	-0.200	9.29E-03	4728	0.20	6.35E-07	6962	0.20	2.57E-09	9207	0.20	2.08E-08	11961	-0.24	1.25E-10
152	0.20	3.52E-05	2418	-0.200	1.57E-04	4732	0.10	3.42E-04	6967	-0.10	2.51E-03	9208	-0.20	2.53E-04	11974	-0.14	2.47E-03
154	-0.20	2.26E-05	2419	-0.100	9.40E-03	4746	0.20	6.35E-08	6976	0.20	3.38E-05	9216	-0.10	4.70E-04	11976	-0.25	6.06E-07
168	0.20	1.41E-05	2424	-0.300	5.42E-09	4756	0.20	2.80E-10	6979	0.10	4.68E-03	9217	0.20	3.11E-04	11977	-0.12	7.17E-04
171	0.20	1.15E-05	2427	-0.200	3.26E-06	4757	-0.10	8.27E-03	6981	-0.10	4.35E-03	9225	0.10	4.49E-04	11982	-0.30	1.57E-04
174	0.20	7.55E-05	2432	0.100	3.23E-04	4758	-0.30	4.72E-15	6987	-0.10	1.22E-03	9228	0.10	8.66E-05	12000	-0.13	3.42E-04
175	-0.20	2.73E-03	2438	-0.300	1.54E-03	4760	-0.30	5.09E-09	6990	-0.10	2.18E-03	9232	-0.10	8.71E-03	12010	0.12	7.11E-03
176	-0.30	1.01E-10	2446	0.200	9.94E-06	4761	-0.30	4.95E-09	6996	0.20	7.93E-11	9236	0.10	2.31E-03	12013	-0.09	9.88E-03
177	0.20	1.56E-09	2465	-0.300	1.70E-19	4762	0.10	7.13E-04	6998	-0.30	9.89E-07	9237	-0.20	7.33E-06	12022	-0.22	1.14E-03
181	0.20	5.00E-08	2466	-0.200	1.03E-07	4764	0.20	1.29E-03	6999	-0.30	3.62E-13	9241	-0.10	5.00E-04	12032	0.20	2.41E-07
182	-0.10	5.17E-04	2470	-0.200	1.08E-06	4770	-0.10	1.27E-03	7011	-0.20	4.16E-05	9244	-0.10	2.37E-04	12036	0.15	1.75E-04

186	0.20	2.93E-06	2471	0.300	5.61E-17	4771	-0.30	1.34E-05	7012	-0.20	4.76E-05	9248	0.20	1.55E-04	12043	-0.17	2.18E-05
191	-0.20	9.60E-11	2472	-0.300	1.26E-08	4778	-0.20	3.43E-04	7020	-0.20	6.83E-07	9252	-0.10	2.54E-03	12046	0.12	7.78E-03
198	0.10	8.05E-03	2476	0.200	2.36E-07	4780	0.20	4.53E-07	7027	-0.30	4.81E-09	9259	-0.20	5.15E-03	12052	-0.20	6.15E-03
203	-0.10	1.36E-04	2483	0.100	9.02E-05	4781	0.20	4.00E-04	7028	0.30	1.03E-05	9260	-0.30	6.86E-14	12060	0.16	3.58E-03
209	0.10	1.34E-04	2484	0.200	3.34E-09	4786	-0.20	3.50E-04	7035	-0.10	2.41E-03	9262	0.20	1.08E-03	12063	0.19	6.34E-06
215	-0.30	3.13E-06	2485	0.200	2.09E-09	4788	0.20	1.54E-04	7036	-0.10	2.10E-03	9264	0.10	7.00E-03	12066	0.10	6.46E-03
217	0.30	8.17E-10	2486	0.100	1.93E-03	4789	-0.20	1.01E-05	7044	-0.10	2.21E-03	9265	0.30	6.66E-04	12067	-0.29	2.28E-07
220	-0.20	3.62E-05	2491	0.300	9.76E-12	4790	-0.10	9.55E-03	7048	-0.20	1.05E-03	9266	-0.20	1.89E-06	12073	-0.31	1.17E-09
231	-0.20	5.44E-05	2500	0.100	1.43E-03	4796	-0.10	2.22E-05	7051	-0.10	4.28E-03	9269	-0.20	9.05E-06	12076	0.19	1.07E-07
246	-0.30	3.20E-06	2501	-0.100	3.06E-05	4800	-0.30	1.58E-05	7052	-0.20	7.37E-03	9275	-0.10	1.21E-03	12081	-0.26	2.35E-11
249	-0.20	3.17E-09	2504	-0.200	2.69E-03	4801	-0.10	7.93E-04	7056	-0.20	1.11E-04	9276	-0.20	1.14E-03	12090	0.22	1.67E-09
250	-0.10	1.67E-03	2508	-0.100	2.49E-04	4803	0.10	1.04E-03	7064	0.10	9.65E-03	9281	-0.30	5.81E-13	12093	0.11	8.12E-03
257	0.30	4.09E-10	2511	0.100	7.38E-03	4807	0.20	1.82E-08	7069	-0.20	7.10E-05	9288	-0.10	4.47E-04	12115	-0.20	7.91E-04
259	0.30	9.77E-04	2514	-0.200	5.76E-06	4808	-0.20	1.88E-07	7072	-0.10	4.39E-04	9290	-0.20	1.40E-06	12118	-0.20	1.86E-03
265	-0.10	6.80E-03	2522	-0.200	1.29E-05	4816	-0.20	7.33E-03	7073	-0.10	4.39E-04	9300	0.10	7.93E-05	12126	0.20	1.92E-08
270	0.10	1.04E-04	2523	-0.200	2.38E-05	4821	-0.20	5.74E-04	7077	0.20	1.75E-03	9302	0.10	4.62E-03	12127	-0.11	9.12E-03
276	-0.30	3.46E-04	2524	-0.200	8.92E-04	4827	0.30	1.52E-07	7079	0.20	3.98E-07	9305	0.10	1.21E-03	12130	-0.55	2.33E-06
282	0.10	1.77E-03	2525	-0.200	8.60E-04	4832	0.10	1.56E-03	7082	0.20	8.17E-04	9311	-0.10	3.79E-03	12131	-0.41	1.18E-07
297	-0.20	1.15E-04	2532	-0.100	6.22E-04	4834	-0.50	1.05E-05	7086	-0.30	7.92E-10	9314	0.20	9.39E-05	12137	0.18	2.83E-05
305	0.20	8.01E-05	2535	0.200	3.55E-04	4854	-0.10	2.27E-03	7092	0.10	8.10E-03	9323	-0.10	9.53E-03	12147	0.17	2.60E-04
307	0.20	1.15E-05	2543	0.200	1.18E-03	4858	-0.10	6.29E-04	7093	0.20	1.20E-03	9326	-0.20	1.28E-04	12153	-0.14	2.24E-03
309	0.10	6.57E-04	2550	-0.200	1.52E-03	4864	-0.10	4.10E-03	7098	0.10	2.33E-03	9327	-0.20	2.30E-03	12162	-0.16	4.27E-05
312	-0.20	3.62E-05	2553	0.100	9.81E-03	4871	-0.20	6.59E-06	7108	-0.20	1.08E-03	9329	-0.10	7.97E-04	12166	-0.18	6.44E-04
318	-0.20	1.75E-05	2556	-0.100	6.55E-03	4873	0.10	4.29E-04	7113	0.20	6.78E-06	9336	-0.10	4.66E-03	12168	0.14	5.71E-04
323	-0.20	1.59E-03	2559	-0.400	7.48E-04	4877	0.10	8.41E-03	7116	0.30	1.79E-14	9339	-0.10	1.95E-03	12174	-0.22	1.11E-09
330	-0.30	1.79E-06	2564	0.100	2.45E-03	4878	-0.20	3.89E-03	7122	-0.30	1.84E-04	9347	-0.30	1.45E-14	12190	-0.17	3.77E-05
331	-0.20	1.43E-06	2568	0.200	2.26E-06	4879	-0.10	1.20E-04	7126	-0.30	5.94E-03	9349	-0.20	4.18E-03	12200	0.19	1.31E-06
333	0.30	3.98E-18	2570	0.200	1.01E-03	4887	-0.20	1.33E-03	7128	0.30	6.02E-18	9352	0.20	1.00E-04	12215	-0.29	1.68E-06
335	-0.10	2.32E-03	2571	-0.100	7.51E-04	4890	-0.30	3.83E-07	7139	-0.10	8.04E-03	9353	0.20	1.28E-04	12219	-0.12	3.26E-03
336	-0.10	2.58E-04	2575	0.300	1.82E-03	4893	0.10	1.68E-04	7140	-0.20	7.35E-03	9355	0.20	3.36E-08	12226	-0.13	4.99E-03
337	0.20	3.66E-05	2578	-0.300	7.40E-07	4894	-0.20	2.15E-10	7149	0.20	1.66E-04	9356	-0.10	1.74E-04	12228	-0.33	1.62E-05
343	-0.60	1.07E-07	2582	-0.100	1.23E-04	4898	0.20	1.99E-08	7150	0.10	1.43E-03	9357	-0.10	7.38E-04	12230	0.24	4.31E-05
345	-0.20	2.12E-07	2584	0.100	5.73E-03	4905	-0.30	2.13E-06	7151	0.10	1.28E-03	9361	0.10	1.63E-04	12232	0.24	1.49E-11
348	-0.20	3.97E-06	2591	-0.100	6.36E-03	4911	0.20	1.03E-07	7161	-0.20	1.46E-05	9368	0.30	1.01E-16	12240	0.21	7.81E-07
352	0.10	6.45E-03	2594	0.100	1.50E-03	4917	0.20	1.71E-05	7166	-0.20	1.29E-05	9369	0.10	4.53E-03	12241	-0.49	6.16E-15
354	-0.30	3.52E-11	2595	0.200	3.50E-06	4936	-0.30	8.76E-08	7167	0.10	8.25E-03	9373	0.30	5.07E-10	12249	0.13	2.66E-04
359	0.10	8.96E-05	2604	-0.200	4.60E-04	4937	0.10	1.97E-03	7181	-0.40	2.96E-05	9388	-0.20	7.53E-03	12275	0.12	3.86E-03
367	-0.10	1.15E-04	2608	0.200	1.70E-05	4938	0.10	8.69E-03	7189	0.20	3.21E-04	9390	-0.20	6.17E-04	12280	0.10	5.98E-03
373	0.30	1.12E-04	2611	-0.200	5.07E-05	4942	-0.20	3.31E-05	7195	-0.30	3.83E-15	9391	-0.20	9.29E-03	12284	0.20	3.39E-08
376	-0.20	1.27E-04	2612	-0.100	4.97E-04	4943	-0.20	2.10E-04	7197	-0.20	8.28E-07	9393	0.20	5.20E-04	12288	0.20	2.16E-06
378	-0.20	8.06E-05	2619	0.200	2.40E-03	4951	0.20	5.28E-05	7199	-0.20	5.05E-05	9394	-0.20	2.23E-04	12291	0.28	8.30E-15
379	-0.20	4.77E-03	2620	0.200	7.43E-10	4953	0.20	8.31E-04	7201	-0.20	9.50E-05	9397	-0.10	3.57E-04	12292	0.11	2.16E-03
381	0.10	3.70E-03	2622	0.100	3.42E-04	4973	0.20	2.50E-06	7208	-0.20	8.69E-05	9402	-0.30	1.68E-10	12293	-0.22	2.17E-05
393	0.20	4.61E-10	2624	0.100	4.77E-03	4974	0.10	3.96E-04	7213	0.10	9.26E-04	9404	-0.20	4.80E-06	12302	0.12	8.12E-03
394	-0.40	2.46E-19	2630	0.300	7.72E-06	4977	-0.10	4.94E-03	7218	-0.20	7.51E-08	9405	-0.20	2.84E-03	12304	-0.15	9.31E-05
395	-0.20	6.24E-06	2632	0.100	1.06E-03	4978	-0.40	6.01E-04	7219	-0.20	2.67E-05	9406	-0.10	1.51E-08	12310	0.38	2.18E-05
396	-0.20	1.07E-06	2633	-0.300	4.03E-07	4979	0.10	6.79E-03	7223	-0.30	1.75E-08	9409	-0.10	2.48E-03	12322	0.22	2.93E-11
404	0.30	3.31E-10	2638	-0.300	1.76E-03	4986	-0.20	2.18E-03	7227	0.20	7.70E-04	9413	-0.20	6.47E-04	12330	0.18	1.18E-05
407	-0.10	5.36E-04	2640	0.200	2.77E-03	4987	-0.40	2.90E-03	7228	0.20	5.59E-04	9421	-0.10	6.81E-03	12334	-0.12	1.25E-03

408	-0.20	4.61E-04	2647	0.200	1.18E-04	4991	-0.20	8.09E-08	7229	0.20	2.30E-05	9423	-0.20	5.61E-06	12336	0.18	4.61E-07
410	-0.30	5.81E-16	2649	-0.100	3.36E-04	4994	-0.10	7.57E-04	7231	0.10	4.00E-03	9424	-0.10	2.22E-03	12343	-0.28	7.68E-05
411	-0.30	1.05E-16	2650	0.100	8.56E-04	4996	-0.30	1.02E-06	7232	-0.20	3.16E-08	9425	-0.10	5.69E-03	12344	0.15	5.24E-05
412	-0.20	1.77E-03	2651	0.100	8.10E-03	4999	0.10	8.71E-04	7233	0.20	2.23E-06	9430	-0.10	3.61E-04	12356	-0.23	4.34E-07
415	-0.20	6.67E-07	2668	-0.200	1.15E-09	5003	-0.40	1.08E-06	7238	-0.20	8.92E-04	9434	-0.10	1.21E-04	12358	-0.26	1.15E-12
419	0.20	8.60E-03	2682	0.200	8.57E-04	5004	-0.20	3.05E-03	7240	0.10	4.14E-03	9437	-0.40	2.33E-06	12368	0.13	2.76E-04
425	-0.10	3.95E-03	2687	0.200	4.13E-06	5005	-0.20	3.07E-03	7245	0.10	4.56E-03	9440	0.10	5.23E-03	12381	-0.15	2.37E-03
429	0.10	2.41E-03	2688	-0.200	3.98E-08	5010	-0.20	2.02E-03	7247	-0.20	2.57E-05	9441	0.10	5.49E-03	12393	0.21	3.99E-10
433	-0.10	5.78E-03	2696	0.400	1.26E-20	5013	0.30	2.46E-12	7248	-0.10	2.06E-03	9443	0.10	1.18E-03	12409	0.28	6.05E-13
435	-0.20	1.90E-03	2698	0.100	4.97E-04	5015	0.10	6.78E-03	7255	0.30	3.86E-06	9444	0.20	7.06E-03	12411	0.23	1.74E-04
440	0.10	4.60E-03	2705	-0.100	4.48E-05	5016	-0.10	6.91E-03	7269	0.20	8.82E-06	9445	-0.10	3.59E-03	12412	-0.15	6.29E-05
444	-0.20	5.37E-05	2706	0.200	3.07E-05	5020	0.20	6.17E-03	7270	-0.20	4.04E-06	9449	0.20	8.80E-03	12423	-0.12	2.94E-03
447	-0.20	3.39E-04	2707	-0.200	3.47E-07	5025	0.20	2.01E-10	7275	-0.40	1.50E-04	9450	0.20	9.03E-03	12433	0.23	6.76E-11
450	0.10	3.27E-03	2730	-0.300	3.43E-05	5028	-0.20	1.05E-05	7279	-0.20	1.04E-08	9452	-0.20	8.82E-05	12444	-0.18	8.67E-03
451	-0.20	3.83E-03	2731	-0.300	5.54E-05	5035	-0.20	5.84E-06	7285	0.30	2.47E-04	9453	0.20	3.98E-05	12457	-0.15	1.71E-03
467	-0.10	1.88E-04	2735	0.300	4.69E-18	5036	0.20	6.41E-07	7289	0.10	1.08E-04	9458	-0.40	4.91E-04	12458	0.30	9.76E-17
470	-0.10	9.27E-03	2736	0.200	3.23E-05	5041	0.10	2.29E-03	7293	-0.10	3.80E-04	9459	-0.20	1.18E-04	12462	0.21	3.35E-09
474	0.10	5.18E-03	2738	-0.100	4.99E-03	5042	0.20	1.19E-04	7300	0.20	4.03E-05	9460	0.20	1.65E-06	12463	-0.16	2.08E-05
476	0.20	1.45E-05	2739	-0.100	6.50E-03	5043	0.10	4.41E-04	7304	-0.10	3.45E-03	9464	-0.10	3.94E-03	12465	-0.20	2.94E-04
478	0.10	5.59E-04	2740	0.100	8.78E-03	5046	-0.10	3.49E-03	7306	0.10	1.53E-03	9472	-0.20	3.96E-04	12466	-0.15	3.47E-03
479	-0.50	1.68E-06	2743	0.200	2.83E-05	5047	0.30	1.06E-03	7310	-0.30	1.64E-11	9476	-0.10	1.65E-04	12469	-0.24	2.30E-06
497	-0.30	1.38E-09	2746	0.100	5.03E-03	5048	-0.10	6.62E-03	7311	-0.20	4.38E-05	9478	0.20	2.12E-03	12477	-0.20	4.92E-05
499	0.30	2.86E-08	2752	-0.400	6.43E-08	5057	-0.20	8.48E-05	7313	0.10	1.79E-03	9480	-0.20	5.14E-03	12491	0.31	5.53E-17
505	0.20	1.10E-04	2754	0.300	5.07E-17	5060	0.20	1.61E-05	7315	-0.20	8.60E-05	9483	-0.20	1.82E-05	12498	0.15	2.55E-05
507	-0.20	7.26E-05	2756	-0.300	6.20E-20	5061	-0.30	4.17E-07	7316	-0.10	4.46E-03	9493	-0.10	2.00E-03	12500	-0.21	1.36E-03
508	0.30	1.07E-12	2758	0.100	1.36E-04	5063	-0.20	1.41E-03	7317	-0.10	5.64E-03	9497	-0.20	4.98E-05	12503	0.10	9.58E-03
509	0.20	2.62E-05	2760	-0.200	8.37E-06	5069	0.20	1.15E-05	7327	0.10	9.97E-04	9500	-0.20	5.37E-04	12509	-0.38	1.97E-11
511	-0.10	5.24E-03	2761	-0.200	5.10E-06	5070	0.30	2.73E-07	7329	-0.40	4.23E-06	9506	0.10	9.74E-03	12510	-0.15	1.54E-03
522	-0.20	2.49E-03	2767	-0.200	3.26E-03	5074	-0.20	5.90E-03	7331	0.30	7.52E-07	9508	0.10	4.97E-05	12518	0.12	1.56E-03
529	-0.20	1.13E-03	2774	0.200	4.90E-03	5075	0.10	8.86E-03	7335	-0.20	2.84E-03	9510	-0.10	6.86E-03	12521	0.25	1.34E-12
531	0.20	1.22E-05	2778	0.100	8.41E-03	5078	-0.10	6.06E-05	7340	-0.20	3.05E-05	9529	0.10	3.71E-03	12522	-0.14	1.26E-04
532	0.10	5.89E-04	2780	-0.100	4.75E-03	5079	0.20	1.42E-09	7345	0.10	1.79E-03	9530	-0.30	1.88E-07	12524	0.23	1.19E-09
534	-0.20	2.09E-06	2781	0.200	1.82E-09	5086	0.20	3.01E-12	7350	0.10	5.70E-04	9531	-0.20	8.40E-07	12529	0.15	1.15E-04
537	0.20	1.59E-08	2782	0.100	7.37E-05	5088	0.10	2.65E-07	7357	0.20	7.14E-06	9538	-0.10	6.33E-03	12532	0.18	2.03E-06
539	-0.10	8.53E-03	2789	0.200	3.47E-03	5093	-0.20	6.78E-06	7361	0.10	1.35E-03	9540	-0.10	2.15E-03	12536	-0.19	2.94E-06
540	-0.20	1.33E-06	2791	0.200	7.53E-04	5094	0.20	2.26E-03	7362	-0.20	2.59E-04	9542	-0.30	1.70E-03	12540	0.17	3.32E-03
546	-0.10	3.03E-04	2795	0.100	8.05E-03	5095	-0.10	8.87E-03	7366	0.10	8.76E-04	9548	0.10	7.21E-03	12542	-0.11	5.38E-03
552	0.10	7.57E-03	2796	0.100	2.22E-04	5097	0.20	9.99E-03	7367	-0.20	2.77E-06	9553	-0.20	5.04E-05	12544	0.21	8.78E-06
555	0.20	7.56E-03	2799	0.100	2.79E-04	5098	0.10	4.81E-03	7374	0.20	1.72E-10	9557	-0.20	2.09E-06	12545	-0.29	7.64E-03
559	0.10	6.30E-03	2801	0.100	7.08E-03	5101	-0.10	8.27E-03	7386	-0.10	9.31E-05	9558	-0.20	3.65E-06	12546	0.11	1.35E-03
561	-0.20	9.06E-06	2824	0.200	6.42E-06	5102	-0.20	5.77E-03	7388	-0.20	1.40E-05	9575	0.20	4.75E-06	12547	-0.24	2.63E-09
565	0.30	1.54E-14	2829	-0.200	1.49E-03	5111	-0.20	9.72E-03	7390	0.20	3.21E-03	9587	0.20	3.73E-09	12549	0.15	8.08E-03
570	-0.10	3.80E-03	2830	-0.200	1.79E-03	5114	0.10	5.01E-03	7403	-0.30	1.61E-08	9598	-0.10	3.24E-03	12565	0.18	2.02E-03
580	-0.10	3.84E-04	2836	0.100	1.14E-03	5115	-0.20	6.41E-06	7404	-0.30	2.70E-08	9609	0.24	2.28E-07	12577	-0.16	8.35E-05
588	-0.20	7.98E-03	2838	-0.200	2.58E-07	5117	0.20	2.45E-03	7406	0.10	7.09E-03	9617	-0.21	2.10E-05	12583	-0.23	9.06E-06
592	0.10	3.61E-03	2841	-0.300	6.69E-05	5123	-0.20	6.32E-07	7407	0.20	4.14E-05	9624	0.15	4.00E-05	12584	-0.33	1.90E-13
595	-0.20	3.18E-05	2843	0.200	4.05E-08	5124	-0.20	1.77E-09	7414	0.10	5.90E-05	9628	-0.16	9.65E-03	12588	-0.20	4.67E-03
614	-0.20	2.35E-06	2848	-0.200	1.64E-09	5125	0.10	8.49E-05	7416	-0.20	9.15E-05	9633	-0.27	1.61E-03	12590	-0.20	2.98E-04
617	-0.10	6.12E-03	2860	0.300	1.59E-04	5132	0.10	1.64E-03	7420	-0.10	9.52E-03	9636	-0.27	6.73E-07	12591	-0.16	1.82E-04

620	0.10	2.02E-04	2882	0.100	1.29E-03	5134	-0.30	2.55E-13	7424	0.20	4.12E-06	9640	-0.15	3.83E-05	12592	0.28	3.35E-11
629	0.40	1.36E-21	2888	-0.100	8.87E-05	5141	0.10	6.12E-03	7427	-0.10	7.59E-03	9645	0.11	1.84E-03	12595	0.11	9.41E-03
636	0.20	1.94E-06	2890	0.300	2.02E-23	5145	-0.20	4.13E-07	7430	-0.20	1.96E-06	9646	-0.30	9.82E-14	12597	-0.21	1.35E-07
637	-0.20	7.34E-06	2891	0.100	1.49E-04	5148	-0.20	1.02E-06	7434	0.20	4.59E-11	9647	-0.24	9.36E-04	12598	-0.25	3.66E-08
640	-0.10	3.51E-04	2896	-0.200	3.71E-03	5149	-0.10	1.23E-03	7441	-0.20	8.59E-07	9656	-0.13	2.14E-03	12613	-0.20	2.55E-06
644	0.30	1.60E-19	2901	-0.200	2.49E-05	5152	0.10	3.49E-03	7443	-0.20	2.62E-03	9660	-0.15	4.30E-04	12625	0.11	1.99E-03
645	-0.20	2.31E-06	2907	-0.200	8.96E-06	5159	0.10	4.80E-03	7448	-0.20	5.33E-11	9665	-0.40	1.51E-15	12627	-0.25	9.47E-04
647	0.10	8.87E-03	2914	0.300	3.56E-09	5165	0.20	2.18E-06	7450	-0.20	3.55E-05	9670	0.14	5.40E-04	12630	0.17	8.08E-04
653	0.30	3.38E-03	2924	0.200	4.33E-08	5166	-0.10	4.24E-03	7453	-0.20	4.01E-07	9671	0.27	1.45E-10	12635	-0.22	1.90E-04
654	0.20	5.58E-05	2929	-0.100	2.38E-04	5169	0.10	6.42E-03	7460	0.30	8.60E-12	9672	-0.12	1.79E-03	12643	-0.12	8.24E-03
655	0.10	1.16E-03	2930	-0.100	8.52E-03	5170	0.10	3.04E-03	7464	-0.20	5.92E-05	9680	0.23	1.14E-10	12644	-0.14	1.21E-03
663	-0.30	9.19E-10	2935	-0.200	1.09E-06	5172	-0.10	4.00E-04	7468	0.20	1.18E-06	9681	0.19	2.32E-03	12651	-0.29	1.15E-03
664	-0.30	1.12E-11	2941	-0.200	4.72E-05	5176	-0.30	3.84E-04	7471	-0.20	1.01E-04	9682	-0.11	1.92E-03	12656	-0.27	5.81E-10
668	-0.20	1.26E-08	2944	-0.100	1.96E-04	5177	-0.10	1.52E-03	7476	-0.20	2.04E-03	9685	-0.18	4.43E-04	12657	0.24	1.27E-08
672	0.20	1.30E-05	2946	0.200	6.12E-07	5179	-0.20	6.51E-03	7478	-0.30	4.25E-05	9688	0.16	1.22E-05	12658	-0.15	5.22E-04
681	0.20	4.50E-06	2955	-0.300	1.49E-04	5186	0.20	2.05E-04	7490	-0.10	7.29E-03	9694	0.24	3.26E-07	12667	0.17	3.44E-03
688	0.20	1.13E-05	2959	-0.400	3.18E-21	5187	0.10	7.93E-03	7493	0.10	2.02E-04	9695	-0.21	2.64E-03	12668	-0.20	2.09E-06
690	-0.30	1.34E-07	2962	0.200	2.53E-07	5207	0.30	1.53E-06	7496	-0.20	1.65E-04	9698	0.27	2.20E-13	12673	-0.18	9.37E-06
696	-0.10	2.72E-04	2995	0.200	1.92E-08	5209	0.10	7.01E-03	7499	-0.20	8.90E-03	9700	0.13	1.52E-03	12675	-0.17	3.10E-05
697	0.20	9.92E-04	2996	0.100	5.85E-03	5219	0.20	9.15E-07	7503	-0.20	5.90E-05	9701	-0.17	8.88E-04	12680	-0.15	8.71E-03
703	0.10	1.16E-03	2997	0.200	4.73E-06	5223	0.10	4.82E-04	7504	-0.30	1.46E-06	9707	-0.11	8.07E-03	12682	0.14	3.16E-03
705	-0.20	3.05E-06	3003	0.300	1.96E-05	5230	0.20	1.38E-07	7506	-0.20	5.17E-10	9712	-0.32	1.08E-03	12683	-0.13	6.41E-04
707	0.20	1.76E-05	3008	0.300	1.10E-05	5235	-0.20	6.40E-05	7507	-0.20	7.99E-07	9714	0.13	5.20E-04	12693	0.15	1.24E-04
714	0.10	9.34E-03	3015	0.100	8.47E-03	5239	-0.10	2.35E-03	7509	0.10	2.94E-05	9716	0.12	9.22E-04	12697	-0.38	1.25E-05
718	-0.20	1.74E-05	3021	0.100	7.89E-03	5241	-0.10	3.20E-03	7515	-0.40	5.17E-12	9718	-0.15	1.70E-04	12699	-0.15	1.04E-03
722	0.20	6.17E-07	3026	-0.100	7.37E-04	5247	0.10	3.76E-03	7516	-0.30	9.59E-12	9719	-0.22	2.40E-09	12705	-0.18	9.60E-06
724	-0.20	4.16E-05	3027	-0.100	2.11E-03	5251	-0.10	1.70E-03	7530	0.10	2.10E-03	9722	-0.25	5.15E-08	12706	0.12	1.15E-03
730	-0.20	4.31E-04	3031	0.300	1.36E-04	5252	-0.10	9.99E-04	7539	0.10	8.55E-03	9723	0.27	1.97E-06	12711	0.16	2.84E-04
736	0.30	3.63E-13	3033	-0.300	2.06E-04	5261	-0.20	2.35E-06	7540	0.10	1.29E-04	9730	-0.23	2.72E-06	12718	-0.20	1.22E-04
741	0.20	1.25E-03	3034	0.300	4.92E-14	5262	0.20	9.06E-04	7543	-0.20	5.51E-05	9732	-0.16	5.48E-03	12725	-0.38	1.31E-15
742	0.20	1.08E-03	3035	0.100	5.31E-03	5267	-0.30	9.11E-04	7545	0.20	7.56E-08	9733	0.19	1.73E-07	12728	-0.30	4.25E-07
747	0.10	2.88E-03	3037	-0.200	4.35E-05	5273	-0.10	2.45E-04	7548	-0.10	1.73E-04	9736	-0.12	2.10E-03	12742	-0.17	7.77E-05
749	-0.20	1.05E-05	3039	0.200	2.17E-07	5274	-0.10	1.77E-04	7549	-0.30	4.73E-13	9738	-0.11	7.34E-03	12743	-0.12	1.17E-03
753	-0.10	3.63E-04	3040	-0.200	2.34E-05	5275	-0.30	8.38E-13	7559	0.10	2.44E-03	9746	0.27	2.86E-07	12752	-0.25	1.17E-08
754	0.10	1.82E-03	3042	0.100	1.17E-03	5276	-0.30	2.93E-03	7560	0.20	3.42E-08	9747	-0.30	2.51E-05	12766	-0.32	1.16E-07
760	-0.40	2.40E-05	3044	-0.200	2.92E-05	5278	0.20	4.26E-04	7561	0.20	2.96E-05	9749	0.18	6.66E-07	12781	-0.25	8.26E-08
761	0.20	3.13E-03	3048	0.200	1.79E-05	5283	0.10	9.76E-04	7564	-0.10	4.98E-03	9750	0.16	4.64E-04	12782	0.14	2.00E-04
762	0.10	4.67E-03	3050	-0.400	2.64E-15	5285	-0.30	4.06E-15	7565	-0.30	1.63E-06	9753	0.15	5.21E-04	12786	0.18	1.28E-05
765	-0.20	5.49E-03	3053	0.300	5.47E-09	5291	0.20	7.22E-03	7568	0.30	3.87E-09	9758	-0.24	3.11E-03	12788	-0.32	5.12E-04
766	0.20	5.54E-06	3057	-0.100	5.59E-03	5295	-0.30	6.47E-07	7569	0.20	1.25E-10	9763	0.19	2.28E-05	12794	-0.16	3.40E-05
769	-0.20	1.38E-06	3065	-0.200	5.64E-04	5302	-0.20	3.20E-07	7570	-0.20	1.81E-07	9766	0.19	3.22E-03	12795	0.16	9.53E-06
776	0.20	1.02E-10	3068	0.100	2.47E-03	5308	-0.10	1.51E-03	7571	0.10	6.59E-05	9767	-0.49	2.06E-05	12799	0.25	5.82E-09
777	-0.20	3.22E-05	3069	0.100	2.73E-03	5316	0.10	3.03E-03	7572	0.20	4.22E-06	9768	0.16	5.25E-03	12815	0.09	5.82E-03
778	0.20	5.54E-03	3079	-0.200	2.06E-04	5317	0.30	4.84E-13	7573	0.20	1.19E-05	9771	-0.27	1.97E-11	12820	0.23	6.00E-04
779	-0.30	5.39E-10	3089	-0.200	7.12E-05	5321	0.20	2.37E-05	7578	-0.20	8.04E-06	9780	-0.16	3.48E-03	12827	-0.24	7.45E-05
781	0.20	3.48E-04	3092	0.300	3.51E-03	5322	0.20	1.35E-03	7580	0.20	3.34E-06	9781	-0.12	4.46E-03	12833	-0.16	1.65E-04
782	-0.10	6.65E-03	3100	-0.200	4.00E-05	5326	-0.10	4.42E-03	7581	-0.10	4.52E-04	9782	-0.26	1.26E-11	12840	-0.40	5.56E-07
784	-0.20	3.86E-04	3103	-0.100	5.46E-03	5328	-0.10	6.55E-03	7584	0.20	5.71E-05	9789	0.14	1.59E-03	12847	-0.25	1.35E-04
788	-0.30	1.50E-03	3113	-0.100	6.20E-03	5329	-0.30	4.55E-05	7590	-0.10	4.68E-03	9796	-0.35	4.96E-04	12850	0.13	2.28E-04

790	0.10	6.18E-03	3114	0.100	5.58E-03	5331	-0.20	2.37E-04	7597	-0.10	2.42E-04	9798	-0.18	4.70E-03	12852	0.15	9.79E-05
793	0.20	9.70E-07	3118	-0.200	2.38E-05	5333	-0.20	4.49E-05	7601	-0.20	3.59E-05	9809	0.15	8.33E-04	12856	0.10	4.92E-03
794	0.20	1.74E-03	3124	-0.100	8.05E-03	5334	-0.20	1.05E-04	7603	-0.20	2.01E-05	9815	0.12	1.31E-03	12865	0.22	1.59E-04
799	0.30	2.76E-03	3125	-0.100	3.08E-04	5344	0.10	3.41E-04	7605	-0.10	6.13E-04	9817	0.10	3.74E-04	12876	-0.17	1.14E-04
801	-0.40	3.38E-10	3129	0.200	2.32E-06	5345	0.30	1.55E-15	7606	0.10	7.42E-03	9818	0.11	7.60E-05	12881	0.27	1.86E-13
804	0.10	2.63E-03	3132	0.100	1.51E-04	5348	0.20	3.14E-07	7619	0.20	6.11E-04	9822	-0.18	3.90E-04	12887	0.25	1.13E-07
808	-0.20	5.91E-07	3133	0.100	1.25E-04	5350	0.20	1.95E-04	7624	0.20	8.52E-04	9829	-0.13	7.80E-03	12888	-0.18	2.00E-04
812	0.10	1.95E-03	3140	0.100	2.44E-03	5353	0.20	1.24E-06	7634	0.20	3.13E-03	9833	-0.22	2.05E-03	12889	0.23	1.47E-09
826	-0.20	8.13E-03	3141	0.100	4.13E-04	5355	0.20	6.61E-06	7635	-0.20	2.09E-05	9835	0.21	1.04E-05	12894	-0.18	3.01E-03
827	0.10	7.04E-03	3142	0.100	1.23E-03	5361	-0.20	1.02E-03	7642	-0.10	7.24E-03	9837	-0.28	4.19E-06	12902	-0.18	6.51E-06
829	0.30	1.47E-09	3143	-0.100	7.39E-03	5368	0.10	1.55E-03	7644	-0.10	7.27E-05	9851	-0.20	3.15E-03	12905	-0.32	1.86E-13
840	-0.30	1.09E-06	3144	-0.200	4.10E-09	5369	-0.20	2.19E-04	7645	-0.20	7.34E-03	9856	-0.09	8.76E-03	12909	-0.12	1.34E-03
846	-0.20	2.96E-05	3145	-0.200	2.76E-09	5372	-0.20	8.46E-03	7649	-0.20	6.57E-06	9858	-0.11	1.06E-03	12927	-0.26	2.85E-12
854	-0.10	3.82E-03	3146	0.100	1.50E-03	5379	-0.10	1.23E-04	7656	0.10	1.72E-03	9859	-0.30	7.13E-16	12929	-0.18	1.33E-04
858	-0.20	6.82E-05	3152	0.100	1.19E-03	5381	0.10	7.85E-03	7657	0.10	6.72E-04	9863	-0.15	1.83E-03	12933	-0.31	6.17E-08
864	0.10	4.77E-04	3153	-0.100	3.53E-03	5384	0.10	5.62E-04	7658	-0.50	6.19E-06	9866	-0.20	7.99E-07	12938	-0.29	7.31E-05
865	0.30	1.90E-09	3165	-0.300	1.79E-09	5390	0.10	5.64E-06	7659	-0.30	1.74E-09	9867	-0.30	1.10E-12	12940	0.16	1.86E-05
868	-0.10	5.43E-03	3166	-0.100	1.18E-03	5391	-0.10	5.34E-04	7660	0.20	4.50E-04	9868	-0.22	5.56E-06	12941	-0.23	1.52E-03
870	0.10	1.94E-04	3177	-0.200	4.27E-04	5399	-0.20	6.10E-06	7665	0.30	6.74E-17	9870	0.10	9.93E-03	12958	-0.20	4.61E-06
871	-0.10	7.04E-04	3180	-0.100	2.19E-04	5412	-0.20	2.82E-06	7666	-0.10	1.47E-03	9874	-0.29	2.24E-12	12964	-0.14	6.37E-03
875	-0.30	6.69E-10	3183	-0.300	6.83E-16	5414	-0.20	9.06E-09	7688	-0.10	9.79E-04	9876	0.15	1.61E-04	12969	0.08	5.83E-03
876	-0.10	2.25E-03	3184	0.400	3.28E-21	5419	0.10	2.31E-04	7689	0.20	1.11E-10	9882	0.17	3.92E-05	12977	0.22	2.41E-06
885	-0.20	6.83E-03	3188	-0.100	1.58E-03	5429	0.30	3.94E-08	7690	-0.30	8.16E-13	9891	0.21	1.06E-07	12979	-0.21	2.34E-06
900	0.10	5.23E-04	3189	-0.100	4.22E-04	5431	-0.30	6.02E-05	7691	-0.30	2.02E-13	9892	-0.15	2.99E-03	12980	-0.15	7.95E-03
901	-0.10	6.47E-03	3190	0.200	5.10E-06	5432	0.20	8.12E-12	7698	0.10	9.55E-03	9899	0.21	4.59E-09	12981	0.22	1.02E-06
910	-0.30	9.77E-04	3206	0.300	5.19E-04	5437	0.20	1.96E-04	7699	0.20	1.98E-05	9913	-0.11	4.93E-03	12987	0.13	7.65E-04
912	0.20	4.33E-05	3210	0.100	3.86E-03	5438	0.20	1.23E-04	7701	-0.20	7.71E-05	9914	-0.40	2.23E-06	12993	0.18	2.07E-06
928	0.30	9.01E-15	3217	-0.200	2.01E-04	5446	0.30	1.27E-18	7721	-0.30	3.54E-08	9917	-0.14	2.64E-03	12994	-0.24	1.93E-09
930	-0.10	3.78E-03	3218	-0.200	5.24E-05	5458	0.20	9.00E-04	7722	-0.40	3.18E-07	9919	0.12	1.44E-03	12996	0.10	7.05E-03
932	-0.20	2.17E-05	3220	0.200	2.30E-06	5461	-0.30	3.14E-09	7723	-0.20	1.17E-03	9923	-0.11	3.56E-03	12998	0.13	7.31E-04
934	-0.20	1.12E-08	3222	0.100	3.24E-03	5463	-0.10	5.31E-05	7727	0.20	2.79E-08	9925	0.10	6.12E-03	13000	-0.10	9.39E-03
937	-0.40	2.25E-06	3227	-0.100	9.21E-03	5466	-0.10	4.37E-03	7729	0.20	4.28E-04	9927	0.16	1.44E-03	13002	-0.14	7.32E-04
939	0.20	1.11E-04	3230	0.200	2.25E-03	5470	-0.20	8.60E-11	7732	-0.10	1.66E-04	9928	0.18	5.47E-04	13003	-0.21	2.83E-05
944	-0.20	1.58E-04	3241	-0.200	3.69E-03	5473	-0.20	9.59E-06	7737	-0.20	8.42E-05	9932	-0.17	1.07E-03	13006	0.13	5.99E-03
945	0.30	1.73E-11	3245	0.200	9.94E-06	5480	0.30	7.85E-09	7738	0.10	4.08E-05	9945	-0.13	8.27E-04	13009	-0.11	4.80E-03
947	-0.10	8.62E-03	3248	-0.300	5.41E-06	5491	0.10	2.92E-04	7739	0.20	7.24E-07	9946	0.37	8.64E-19	13018	-0.24	7.37E-08
948	-0.20	7.47E-07	3250	0.100	9.62E-04	5492	-0.10	4.63E-03	7745	0.20	2.48E-10	9950	-0.14	1.65E-03	13020	0.11	1.71E-03
949	-0.30	6.19E-12	3258	0.100	1.15E-04	5493	-0.10	1.28E-03	7747	0.10	6.21E-04	9952	0.18	5.78E-05	13025	0.12	5.33E-03
954	0.20	6.75E-10	3259	-0.200	3.49E-04	5495	0.30	8.18E-05	7748	-0.30	1.92E-03	9956	0.14	5.14E-03	13029	0.11	9.68E-03
960	-0.20	4.72E-09	3260	0.200	2.69E-11	5499	0.10	8.94E-04	7750	0.20	8.17E-04	9957	-0.15	7.62E-04	13031	-0.28	2.48E-04
962	0.30	1.25E-14	3263	0.200	9.19E-05	5501	0.20	1.23E-08	7751	0.20	5.89E-04	9959	0.23	1.14E-10	13040	-0.23	3.31E-05
963	-0.40	8.09E-10	3272	0.300	3.65E-09	5502	0.20	2.38E-08	7753	0.10	1.34E-03	9961	0.21	4.20E-09	13051	0.21	3.86E-09
964	0.20	2.32E-06	3275	-0.100	6.52E-03	5504	-0.10	9.72E-03	7759	-0.10	5.91E-04	9964	0.16	2.28E-04	13055	0.17	1.14E-05
975	0.20	2.70E-05	3281	-0.300	4.53E-07	5509	0.20	1.22E-04	7770	0.10	5.92E-03	9973	-0.13	5.57E-03	13063	-0.16	3.79E-03
979	0.20	1.59E-08	3286	0.200	1.20E-05	5511	-0.10	1.71E-03	7774	0.10	9.86E-03	9975	-0.16	6.79E-08	13065	-0.22	2.38E-08
983	-0.20	2.01E-04	3310	0.100	2.71E-04	5513	-0.10	4.27E-03	7777	-0.20	7.95E-06	9981	-0.10	8.90E-03	13070	-0.28	1.29E-03
984	0.30	7.96E-11	3312	-0.300	8.15E-13	5522	-0.30	4.45E-15	7782	-0.10	3.01E-03	9982	-0.10	7.04E-03	13072	-0.27	4.75E-03
989	0.10	5.26E-03	3313	-0.300	1.17E-11	5527	0.20	2.35E-05	7785	-0.20	1.15E-05	9987	-0.15	1.70E-04	13080	0.18	1.31E-06
998	0.20	9.41E-05	3315	-0.200	3.44E-05	5536	-0.10	5.85E-05	7810	-0.20	3.53E-07	9993	-0.11	4.53E-05	13083	-0.13	1.60E-03

1004	-0.20	1.27E-04	3316	0.100	6.64E-03	5538	-0.10	6.29E-04	7815	-0.20	2.35E-05	9994	0.10	9.93E-03	13089	-0.19	1.07E-04
1006	-0.20	2.25E-03	3317	0.200	2.13E-05	5539	-0.20	1.24E-07	7816	-0.20	4.07E-06	9995	0.35	1.02E-20	13097	0.15	1.29E-04
1009	-0.20	7.17E-06	3321	0.300	9.08E-18	5545	-0.20	3.36E-03	7822	-0.20	1.71E-08	9996	-0.19	1.11E-06	13103	0.11	4.34E-03
1012	0.20	1.12E-06	3322	-0.200	1.23E-04	5548	0.20	1.45E-05	7823	0.20	4.92E-07	10003	-0.14	3.01E-04	13107	-0.15	2.76E-04
1016	-0.30	4.29E-12	3325	-0.300	1.47E-04	5552	-0.10	1.83E-04	7825	-0.10	4.73E-03	10005	-0.12	4.77E-03	13111	0.22	2.43E-09
1021	0.10	2.92E-03	3334	-0.200	2.29E-03	5560	-0.10	2.11E-04	7827	-0.30	8.81E-11	10006	-0.10	7.13E-03	13116	-0.15	2.83E-03
1029	-0.10	1.46E-03	3340	0.100	6.40E-04	5565	0.20	2.87E-06	7828	-0.30	1.03E-07	10011	-0.22	1.88E-08	13123	-0.16	1.54E-03
1031	-0.20	2.88E-03	3341	-0.100	6.08E-03	5570	0.30	3.51E-15	7830	-0.10	1.28E-04	10015	-0.23	3.98E-12	13126	-0.19	1.17E-06
1035	-0.10	8.57E-03	3343	-0.100	2.13E-03	5572	0.20	5.77E-05	7843	0.20	4.97E-08	10019	0.13	1.10E-03	13128	-0.20	1.09E-03
1036	0.10	2.06E-03	3353	0.100	1.75E-03	5574	-0.20	5.00E-09	7854	-0.40	3.00E-06	10021	-0.17	4.97E-05	13139	0.19	1.92E-05
1037	-0.10	5.01E-03	3357	-0.100	1.63E-03	5580	-0.20	6.52E-05	7856	-0.10	3.88E-03	10026	-0.11	3.39E-03	13142	-0.24	2.54E-04
1039	-0.10	9.43E-04	3359	-0.100	6.41E-03	5585	0.10	9.76E-03	7858	-0.20	2.64E-06	10035	0.29	2.97E-12	13143	0.28	1.30E-11
1042	0.10	3.95E-03	3360	-0.200	4.97E-04	5590	0.20	4.77E-09	7859	-0.10	1.35E-04	10036	-0.26	7.65E-11	13149	0.25	2.10E-09
1049	-0.10	4.07E-03	3367	0.200	2.07E-05	5592	0.20	1.49E-05	7860	-0.30	5.20E-07	10039	-0.14	7.40E-04	13151	-0.29	8.69E-09
1056	0.10	1.06E-03	3368	-0.100	6.66E-03	5593	-0.20	3.52E-04	7861	-0.20	2.92E-04	10043	-0.35	4.98E-04	13153	-0.19	3.14E-06
1062	-0.20	1.05E-03	3371	0.200	8.15E-11	5596	-0.20	1.34E-05	7863	0.20	1.18E-10	10044	0.12	2.07E-03	13161	-0.24	4.37E-11
1063	0.10	7.88E-05	3372	-0.100	1.40E-05	5597	-0.20	1.74E-05	7871	0.40	1.38E-21	10047	0.12	2.82E-03	13171	0.17	2.04E-03
1075	-0.20	7.48E-03	3374	-0.300	1.27E-08	5601	-0.20	1.31E-04	7876	-0.20	1.95E-05	10053	-0.30	1.11E-06	13173	0.27	3.94E-12
1084	0.10	1.65E-04	3379	-0.400	1.91E-07	5605	-0.30	1.97E-10	7877	-0.10	1.57E-04	10054	0.13	1.79E-03	13179	0.15	5.34E-04
1094	0.30	6.54E-10	3391	0.100	1.83E-04	5606	-0.30	5.69E-09	7879	-0.30	1.17E-08	10062	-0.23	4.61E-10	13184	-0.15	1.12E-03
1097	-0.20	6.00E-09	3392	0.200	2.43E-03	5608	-0.40	1.90E-26	7885	0.10	8.70E-03	10066	-0.16	2.19E-05	13191	-0.17	2.48E-03
1100	-0.20	5.08E-08	3394	0.100	5.73E-03	5614	-0.20	4.40E-04	7889	-0.20	5.34E-06	10077	-0.16	1.63E-08	13194	0.12	2.72E-03
1104	0.10	4.26E-03	3395	0.300	4.53E-08	5619	0.30	8.06E-10	7891	-0.10	4.16E-04	10079	0.17	9.33E-04	13195	-0.10	8.77E-03
1105	-0.10	7.42E-05	3396	-0.100	5.58E-03	5624	-0.20	2.86E-04	7894	0.10	8.26E-03	10080	-0.17	3.57E-05	13201	0.16	9.57E-03
1110	-0.20	7.21E-10	3404	0.100	1.00E-03	5625	-0.30	3.59E-08	7900	-0.20	6.36E-05	10082	-0.21	5.98E-08	13210	0.11	2.26E-03
1113	-0.20	2.43E-05	3407	0.100	3.65E-05	5627	0.20	5.94E-05	7908	-0.10	1.57E-04	10084	0.31	6.64E-09	13211	-0.40	6.92E-09
1114	-0.20	1.82E-03	3412	0.100	8.88E-03	5632	0.10	1.34E-03	7911	-0.40	1.49E-04	10087	-0.21	3.08E-07	13212	0.12	3.41E-03
1115	-0.20	1.64E-03	3413	0.100	9.27E-03	5637	0.20	1.80E-04	7914	0.10	1.63E-04	10092	-0.28	7.27E-13	13214	0.15	3.39E-05
1121	-0.10	9.05E-03	3415	0.300	7.85E-04	5638	0.20	4.18E-04	7927	0.30	2.01E-12	10095	0.10	8.93E-04	13223	-0.14	1.88E-03
1140	0.20	6.15E-11	3416	0.100	2.00E-03	5639	-0.10	9.55E-03	7939	0.10	1.19E-03	10102	0.29	1.29E-09	13224	-0.21	8.64E-07
1141	0.20	1.37E-05	3417	0.300	1.30E-13	5643	0.10	1.72E-03	7941	0.10	6.63E-03	10103	-0.19	4.32E-07	13230	-0.10	4.63E-03
1142	-0.10	4.34E-03	3418	0.100	3.63E-04	5647	-0.10	2.45E-03	7942	-0.10	1.62E-04	10104	-0.11	6.41E-03	13238	-0.14	2.73E-04
1151	0.20	5.56E-05	3420	0.200	2.01E-06	5648	-0.20	2.69E-03	7950	-0.10	1.56E-03	10110	0.15	1.03E-04	13250	0.16	1.66E-03
1152	0.10	4.39E-03	3438	-0.100	6.40E-07	5660	0.10	6.27E-03	7952	0.10	8.51E-03	10115	-0.12	3.53E-03	13255	-0.13	1.44E-03
1157	-0.10	6.92E-03	3439	-0.300	4.33E-07	5668	-0.20	2.61E-05	7953	0.10	3.29E-04	10123	0.07	4.50E-03	13258	-0.21	1.01E-03
1160	0.10	3.43E-04	3440	-0.200	9.11E-03	5670	0.10	1.93E-03	7964	0.10	2.06E-04	10124	-0.14	2.28E-04	13279	-0.33	1.81E-04
1163	0.30	1.18E-06	3442	-0.200	5.76E-04	5674	-0.40	1.58E-16	7965	0.30	3.03E-14	10132	0.25	1.62E-08	13297	0.24	8.46E-04
1165	0.20	3.60E-06	3445	0.200	4.40E-03	5677	0.10	1.60E-04	7966	-0.20	6.13E-07	10139	-0.21	4.92E-09	13302	0.17	1.81E-06
1167	0.10	1.85E-03	3448	0.100	5.97E-03	5682	0.10	4.28E-03	7972	0.20	2.17E-04	10140	0.19	4.22E-04	13305	-0.30	1.53E-08
1170	-0.10	2.57E-06	3451	0.200	2.48E-04	5688	-0.20	4.54E-05	7973	0.20	3.11E-05	10148	-0.16	3.15E-05	13306	-0.29	4.18E-04
1171	0.10	1.83E-04	3460	-0.300	2.88E-05	5691	0.10	2.39E-04	7982	0.20	9.86E-06	10156	-0.21	7.58E-03	13308	-0.23	1.40E-03
1172	-0.10	9.53E-04	3465	0.200	4.67E-04	5699	-0.20	1.41E-03	7994	-0.20	5.76E-05	10157	-0.16	1.86E-05	13310	0.25	2.88E-11
1178	0.10	9.23E-04	3466	0.200	1.90E-09	5703	0.30	2.83E-19	7995	-0.20	6.72E-05	10158	0.15	3.05E-03	13312	-0.10	8.79E-03
1182	0.10	1.36E-03	3467	0.200	3.50E-06	5704	0.20	1.31E-09	7996	-0.20	6.85E-05	10160	0.21	1.86E-09	13313	0.13	1.34E-03
1185	0.30	1.80E-10	3468	0.100	2.78E-04	5705	0.10	1.50E-04	8002	-0.20	1.55E-03	10161	-0.24	2.73E-05	13326	0.18	5.85E-03
1186	0.20	4.48E-06	3480	-0.200	5.63E-04	5708	-0.50	1.08E-09	8007	-0.30	9.57E-03	10162	-0.36	1.83E-20	13328	0.31	9.67E-09
1187	0.20	7.53E-06	3482	-0.100	9.70E-04	5711	-0.10	8.78E-04	8008	-0.20	2.48E-04	10165	0.17	1.12E-04	13361	-0.13	2.68E-03
1188	0.20	1.36E-05	3484	-0.100	2.29E-03	5713	0.20	2.87E-05	8009	-0.30	6.27E-12	10176	0.11	2.42E-03	13367	0.21	2.31E-09
1195	0.20	1.23E-06	3485	-0.300	2.57E-12	5715	-0.30	5.75E-06	8012	-0.30	2.61E-05	10177	0.28	2.23E-13	13368	-0.23	9.86E-03

1213	0.10	1.46E-03	3487	-0.100	2.33E-03	5722	-0.20	9.81E-03	8018	0.20	1.82E-05	10194	-0.16	1.42E-04	13378	-0.40	4.57E-07
1214	0.20	3.51E-06	3490	0.200	2.05E-07	5723	-0.30	2.23E-04	8024	-0.20	1.94E-06	10198	0.15	1.46E-04	13379	-0.17	9.51E-04
1217	0.20	7.06E-03	3491	0.100	5.81E-05	5737	-0.20	2.77E-03	8025	-0.40	2.08E-08	10199	0.32	1.79E-19	13381	-0.22	1.02E-03
1222	-0.10	4.63E-03	3492	0.200	5.00E-05	5741	-0.10	1.20E-04	8026	0.20	2.28E-03	10200	0.34	1.20E-18	13382	0.17	1.24E-03
1229	-0.10	2.15E-03	3497	-0.100	4.22E-03	5742	-0.10	1.03E-04	8028	-0.30	3.26E-07	10206	0.11	2.84E-03	13383	0.11	6.19E-03
1230	0.20	6.94E-03	3498	0.100	9.41E-03	5749	0.10	9.02E-03	8031	0.20	1.06E-03	10210	0.28	2.04E-07	13384	-0.11	4.33E-03
1237	-0.10	5.82E-03	3500	-0.200	1.72E-04	5753	-0.20	2.54E-03	8032	-0.10	6.38E-05	10212	-0.15	5.56E-03	13396	-0.09	9.72E-03
1238	0.10	2.70E-03	3506	-0.200	6.11E-04	5754	0.20	1.17E-09	8037	-0.30	8.65E-08	10267	-0.21	5.48E-03	13404	-0.30	2.75E-03
1239	-0.20	8.34E-09	3510	-0.200	8.80E-05	5760	0.20	1.24E-05	8040	0.20	2.76E-06	10274	-0.18	1.30E-04	13406	-0.10	8.73E-03
1242	0.20	2.78E-04	3511	0.200	4.30E-04	5761	0.10	2.32E-04	8044	0.10	4.31E-03	10283	-0.14	1.08E-03	13413	0.20	3.78E-03
1243	0.10	3.18E-03	3514	-0.100	7.78E-04	5762	0.10	2.01E-04	8046	0.20	1.42E-05	10286	-0.19	1.78E-06	13420	0.13	4.37E-03
1244	0.20	1.28E-10	3523	0.200	1.53E-05	5774	-0.40	8.03E-04	8048	-0.20	1.83E-04	10288	0.19	4.50E-04	13425	-0.21	8.50E-05
1245	0.10	2.35E-03	3530	-0.200	6.52E-08	5775	0.20	1.98E-05	8054	0.10	9.53E-04	10291	-0.24	3.11E-11	13434	0.18	5.43E-06
1251	0.20	3.54E-08	3538	-0.100	2.33E-03	5777	0.40	1.23E-07	8055	0.30	2.19E-07	10299	0.28	5.10E-09	13441	0.16	2.81E-05
1252	-0.20	5.22E-04	3539	0.200	9.20E-09	5784	-0.20	6.61E-04	8062	-0.20	4.40E-08	10302	0.25	3.37E-11	13457	-0.17	5.71E-05
1254	-0.20	5.83E-05	3548	-0.200	6.93E-03	5785	-0.20	1.86E-04	8063	-0.20	5.51E-08	10304	-0.27	4.31E-11	13466	-0.19	1.00E-06
1256	0.20	1.24E-09	3550	0.200	1.45E-04	5788	-0.10	6.45E-03	8075	-0.20	1.92E-07	10305	-0.14	8.46E-05	13475	-0.12	1.78E-03
1265	0.10	1.05E-03	3554	0.100	1.27E-04	5792	0.20	9.81E-04	8083	-0.10	9.47E-03	10317	-0.12	8.37E-03	13476	0.09	9.77E-03
1266	-0.10	8.13E-04	3557	-0.300	1.61E-03	5796	-0.10	5.08E-04	8085	-0.20	3.24E-05	10327	-0.20	1.70E-05	13479	0.14	2.02E-04
1276	-0.20	5.45E-06	3558	-0.300	1.36E-12	5800	-0.20	1.10E-06	8086	0.20	2.75E-05	10329	0.15	8.78E-04	13485	0.37	4.14E-10
1278	-0.10	1.70E-04	3559	-0.500	1.57E-06	5806	-0.20	4.74E-05	8087	-0.10	7.45E-03	10331	0.14	4.14E-04	13512	0.22	4.50E-09
1281	0.20	1.17E-04	3563	-0.200	5.31E-04	5808	0.20	2.80E-03	8088	0.20	7.10E-05	10333	0.14	1.09E-04	13523	0.16	1.22E-03
1283	0.20	1.54E-03	3568	0.100	3.74E-04	5809	-0.20	8.51E-03	8089	0.30	1.71E-06	10341	-0.18	1.34E-05	13527	-0.29	2.16E-15
1287	-0.20	7.11E-08	3569	0.100	3.55E-03	5812	0.10	6.93E-04	8090	0.30	7.64E-07	10342	0.20	4.45E-05	13529	0.15	1.82E-03
1291	0.20	9.31E-06	3575	-0.300	1.47E-03	5815	-0.20	3.37E-03	8094	0.30	4.31E-14	10343	0.14	3.13E-04	13540	-0.34	1.30E-05
1294	0.10	2.77E-04	3579	0.100	3.25E-03	5816	-0.30	8.68E-04	8101	-0.30	3.49E-06	10347	-0.11	2.91E-03	13565	-0.15	9.14E-05
1299	-0.30	2.44E-08	3582	-0.100	3.15E-03	5817	-0.10	5.25E-03	8102	-0.20	1.95E-10	10353	0.17	2.17E-03	13575	0.20	6.15E-03
1303	0.10	1.26E-03	3586	0.100	5.38E-03	5818	-0.20	1.23E-03	8105	0.20	6.70E-06	10357	0.24	3.27E-07	13578	0.33	4.05E-18
1305	0.20	7.09E-08	3588	-0.100	4.19E-04	5819	-0.20	2.98E-04	8107	0.30	9.84E-04	10358	-0.16	3.06E-04	13608	0.22	7.01E-09
1310	-0.20	3.70E-03	3591	0.200	2.18E-03	5821	-0.10	2.90E-04	8110	-0.20	6.27E-04	10362	-0.20	5.49E-06	13609	0.18	6.77E-06
1320	-0.20	1.71E-06	3593	-0.200	6.81E-06	5822	-0.20	5.72E-03	8111	-0.30	4.72E-13	10363	0.10	9.83E-03	13626	-0.37	2.25E-03
1328	0.10	1.01E-04	3594	0.200	1.53E-06	5823	-0.20	4.67E-03	8119	-0.10	6.53E-04	10367	0.11	2.93E-03	13629	0.20	1.06E-07
1329	-0.10	6.29E-04	3595	-0.300	1.41E-04	5824	-0.20	3.07E-03	8127	0.20	1.28E-10	10369	-0.16	1.04E-03	13632	-0.16	3.30E-03
1332	0.20	6.09E-05	3596	-0.200	9.64E-06	5825	-0.30	4.84E-08	8132	-0.10	7.03E-04	10370	0.20	1.57E-07	13635	-0.12	1.08E-03
1333	0.30	4.28E-07	3599	0.200	5.00E-07	5828	-0.20	8.83E-05	8134	0.20	6.45E-07	10372	-0.09	1.01E-03	13637	-0.22	2.41E-07
1339	-0.10	7.57E-04	3601	-0.200	5.58E-07	5831	-0.20	1.62E-04	8142	-0.20	6.40E-05	10374	-0.10	3.29E-03	13663	-0.14	3.28E-04
1346	-0.20	1.36E-04	3613	0.200	1.08E-06	5835	0.10	4.02E-03	8143	-0.20	8.48E-05	10387	-0.16	3.79E-05	13668	0.29	6.81E-08
1348	-0.10	7.83E-03	3617	0.200	3.49E-03	5838	-0.20	6.29E-10	8146	0.20	1.20E-07	10395	0.16	5.76E-03	13687	-0.15	8.70E-04
1354	-0.20	6.38E-06	3618	0.300	1.38E-15	5840	0.20	1.14E-07	8147	0.20	2.11E-07	10396	-0.33	2.68E-09	13689	-0.32	5.10E-06
1355	0.10	7.48E-03	3622	-0.200	9.00E-04	5841	0.10	7.56E-04	8149	0.20	4.21E-08	10402	-0.21	1.40E-08	13700	-0.11	4.05E-03
1361	-0.10	2.35E-03	3625	0.200	7.65E-09	5846	0.10	8.69E-04	8150	0.30	1.11E-07	10408	-0.13	1.34E-03	13702	-0.12	3.94E-03
1364	0.30	2.16E-11	3631	-0.300	4.37E-12	5850	0.10	1.80E-04	8161	0.10	2.98E-03	10410	0.20	7.03E-05	13707	-0.40	3.19E-08
1366	0.10	8.14E-03	3636	-0.200	8.45E-05	5852	-0.20	1.77E-03	8163	-0.20	1.97E-07	10422	0.25	1.27E-05	13711	0.26	2.79E-03
1370	-0.40	4.37E-09	3649	0.100	1.60E-04	5856	0.20	3.18E-08	8166	0.20	3.82E-07	10423	0.20	2.46E-06	13713	-0.12	2.07E-03
1373	0.30	3.22E-07	3655	-0.200	5.69E-06	5857	0.10	2.42E-04	8168	-0.10	1.69E-03	10427	-0.34	2.28E-08	13717	0.16	1.37E-03
1375	-0.20	2.32E-06	3658	0.300	3.30E-08	5861	0.20	9.42E-06	8176	-0.10	3.18E-03	10436	-0.22	2.87E-03	13725	0.16	9.76E-03
1380	-0.50	9.03E-13	3661	-0.100	1.85E-03	5868	0.20	7.96E-11	8185	-0.20	6.62E-03	10438	0.26	1.56E-13	13727	-0.17	9.89E-05
1384	-0.10	2.70E-03	3667	0.200	1.73E-06	5875	-0.30	4.65E-11	8189	-0.20	6.37E-06	10439	0.11	4.21E-03	13741	-0.10	9.18E-03
1385	-0.20	1.95E-06	3668	0.200	4.94E-06	5879	0.10	5.93E-03	8191	-0.10	1.00E-02	10444	-0.21	3.67E-06	13747	0.09	8.41E-03

1389	0.20	1.10E-04	3683	-0.200	6.11E-07	5883	-0.10	2.89E-03	8192	0.40	1.50E-18	10446	-0.19	2.07E-03	13755	0.18	9.97E-04
1392	-0.20	6.11E-04	3684	0.200	7.27E-06	5884	-0.20	1.96E-06	8202	0.20	3.89E-03	10448	-0.13	1.24E-03	13766	-0.22	1.97E-06
1393	-0.30	8.31E-17	3688	-0.100	3.50E-03	5887	-0.30	8.24E-06	8210	0.30	1.79E-04	10453	-0.25	2.19E-03	13767	-0.16	1.35E-05
1396	-0.10	7.72E-03	3693	-0.200	1.35E-04	5897	-0.20	1.43E-09	8212	-0.20	3.07E-03	10454	0.19	2.39E-08	13772	0.12	1.06E-03
1401	-0.20	1.63E-09	3695	-0.200	2.20E-03	5900	-0.40	1.20E-05	8219	0.20	4.61E-05	10456	-0.22	5.32E-06	13775	-0.20	8.75E-04
1406	-0.20	1.09E-05	3697	-0.200	2.20E-07	5901	-0.20	1.44E-05	8220	-0.20	5.69E-04	10457	0.08	2.90E-03	13791	0.12	1.35E-03
1408	-0.10	5.77E-04	3699	-0.200	1.04E-03	5906	0.10	5.26E-04	8224	-0.20	4.40E-03	10461	-0.15	3.20E-03	13795	0.23	5.48E-09
1409	0.10	6.55E-04	3700	0.200	2.81E-06	5910	-0.20	1.32E-03	8232	-0.20	1.12E-03	10464	0.14	9.95E-03	13799	-0.13	3.43E-03
1410	-0.30	1.04E-12	3704	0.200	1.21E-08	5913	-0.20	4.03E-03	8233	-0.20	9.19E-08	10478	0.17	9.14E-03	13805	0.14	4.21E-04
1411	0.20	1.13E-07	3705	0.100	4.85E-03	5914	0.30	2.81E-12	8237	0.20	1.09E-08	10481	0.20	4.25E-06	13806	0.12	5.26E-03
1419	-0.10	3.17E-03	3706	-0.200	4.21E-07	5916	0.20	5.77E-04	8238	0.20	6.64E-09	10487	-0.18	4.20E-05	13809	-0.12	1.82E-03
1420	-0.10	7.84E-03	3708	0.100	6.41E-04	5918	-0.10	2.64E-03	8239	0.30	4.44E-12	10490	-0.12	3.55E-03	13811	-0.38	1.21E-05
1421	0.20	1.18E-08	3711	0.100	5.56E-03	5921	-0.30	1.16E-06	8240	-0.20	8.01E-07	10492	0.11	4.67E-03	13812	-0.13	6.22E-04
1434	0.10	2.63E-03	3714	-0.100	1.14E-03	5922	-0.30	2.29E-06	8243	-0.20	2.37E-03	10494	0.26	5.74E-17	13813	-0.12	1.09E-03
1439	0.20	4.08E-08	3722	0.200	6.86E-09	5924	-0.10	6.18E-04	8244	-0.20	2.71E-09	10495	-0.19	1.80E-05	13814	-0.20	5.70E-04
1441	-0.30	2.37E-04	3723	-0.300	8.21E-04	5927	0.10	9.34E-03	8246	-0.20	6.28E-03	10507	-0.18	6.47E-06	13826	0.10	5.41E-03
1443	0.20	1.21E-06	3728	0.200	3.35E-04	5929	-0.20	7.43E-08	8250	0.30	1.41E-03	10509	-0.14	2.23E-03	13827	0.17	1.59E-05
1444	0.20	7.47E-07	3729	-0.200	9.55E-06	5930	-0.20	2.43E-09	8259	0.10	6.24E-03	10515	-0.27	6.76E-05	13832	0.16	2.65E-04
1445	-0.30	7.74E-03	3734	0.200	1.26E-08	5931	0.10	4.95E-03	8260	0.10	5.94E-03	10520	-0.38	5.78E-06	13839	-0.16	5.49E-05
1450	-0.20	4.35E-05	3736	0.100	4.69E-03	5933	-0.20	2.59E-04	8261	0.30	7.55E-13	10533	-0.16	8.56E-03	13851	0.33	4.17E-04
1451	0.30	3.31E-09	3743	0.200	5.41E-03	5938	0.20	9.39E-03	8264	-0.20	4.18E-03	10537	-0.18	5.07E-06	13852	0.14	1.43E-04
1456	-0.10	3.09E-03	3749	-0.100	7.39E-04	5946	-0.10	9.96E-03	8267	-0.20	7.28E-03	10538	0.17	7.06E-05	13860	-0.14	7.65E-03
1464	0.10	1.27E-03	3752	-0.200	6.48E-09	5955	0.20	2.05E-05	8276	-0.30	1.12E-12	10539	0.15	4.42E-05	13878	-0.15	2.45E-04
1466	-0.20	3.35E-04	3753	-0.200	2.33E-07	5957	-0.20	1.01E-03	8285	0.20	3.13E-06	10542	0.11	3.65E-05	13879	-0.10	6.18E-03
1475	-0.20	8.69E-08	3759	-0.200	3.64E-07	5966	0.20	3.95E-08	8287	-0.20	5.61E-06	10543	-0.19	8.85E-05	13891	-0.17	4.05E-03
1478	0.10	1.38E-03	3760	0.200	2.86E-10	5968	-0.10	5.61E-05	8289	-0.20	3.15E-11	10548	0.14	7.23E-05	13898	0.27	1.75E-10
1490	0.10	3.21E-04	3763	0.300	2.92E-05	5971	0.10	5.21E-05	8300	-0.10	1.15E-03	10555	0.24	7.90E-05	13906	-0.21	4.99E-06
1491	0.20	2.29E-05	3765	-0.100	4.38E-03	5972	0.20	8.56E-05	8308	0.30	1.26E-04	10560	-0.11	3.56E-03	13917	-0.14	4.81E-04
1498	-0.20	3.09E-09	3768	-0.300	1.78E-05	5973	0.10	1.56E-04	8318	-0.10	3.94E-04	10565	-0.14	6.20E-03	13920	-0.16	9.13E-03
1506	-0.20	7.11E-04	3770	0.200	2.83E-08	5979	0.30	9.08E-11	8321	-0.30	8.66E-06	10570	-0.26	3.91E-11	13926	-0.23	1.33E-03
1507	0.40	1.14E-08	3772	-0.300	5.19E-07	5986	0.10	1.11E-03	8322	0.10	4.00E-03	10576	-0.16	2.40E-05	13927	0.28	2.80E-08
1524	0.20	8.74E-05	3776	-0.200	1.05E-05	5990	-0.20	7.12E-05	8330	0.10	2.90E-04	10578	-0.11	7.90E-03	13929	-0.25	6.64E-10
1526	-0.10	1.05E-03	3779	0.100	9.76E-05	5992	-0.10	6.06E-05	8332	-0.20	6.02E-05	10582	0.08	3.41E-03	13934	-0.23	1.70E-09
1529	-0.10	8.78E-03	3780	0.200	1.65E-07	5994	0.10	1.00E-03	8333	0.10	1.14E-03	10584	-0.22	8.07E-09	13935	0.17	1.30E-05
1530	-0.30	2.16E-12	3788	-0.200	2.63E-10	5995	0.10	9.54E-04	8334	-0.20	2.89E-04	10601	-0.15	4.45E-04	13949	-0.25	6.33E-07
1533	0.30	2.04E-11	3792	-0.200	2.29E-03	5996	0.10	9.67E-04	8337	-0.10	4.06E-03	10603	-0.22	3.15E-08	13951	0.11	2.01E-03
1543	-0.20	9.26E-03	3793	-0.200	7.87E-06	5997	0.10	1.05E-03	8340	-0.30	2.08E-06	10604	-0.33	1.03E-11	13971	0.20	6.19E-06
1552	0.10	4.99E-04	3796	-0.300	1.64E-08	6005	-0.10	3.02E-04	8343	0.20	1.75E-05	10608	-0.20	3.31E-07	13977	0.14	1.50E-03
1554	0.20	3.19E-03	3797	-0.300	4.03E-08	6013	-0.30	5.83E-03	8351	0.20	2.41E-10	10622	-0.28	9.82E-05	13981	-0.15	1.73E-03
1558	0.20	7.34E-06	3798	-0.200	8.19E-04	6016	-0.30	1.53E-12	8352	-0.10	1.64E-04	10625	0.15	1.44E-04	13984	-0.26	8.40E-13
1560	0.20	3.59E-04	3818	-0.200	7.29E-05	6017	-0.20	8.46E-03	8353	-0.10	5.90E-03	10633	-0.19	4.07E-06	13989	-0.11	4.50E-03
1562	0.10	6.93E-03	3821	0.200	1.30E-03	6030	-0.20	7.93E-08	8358	-0.30	3.31E-15	10648	0.21	4.94E-03	13994	0.12	3.02E-03
1571	-0.10	1.65E-03	3822	-0.200	7.11E-06	6033	-0.20	1.16E-07	8361	0.30	2.90E-12	10649	0.14	1.06E-04	13998	0.30	2.83E-09
1573	0.30	4.99E-12	3824	0.100	6.99E-04	6036	-0.20	3.31E-04	8362	-0.20	1.18E-03	10655	-0.22	6.11E-09	14009	-0.16	4.39E-05
1581	0.20	5.88E-04	3842	-0.100	4.37E-03	6049	0.20	2.43E-04	8363	-0.20	2.29E-04	10668	-0.21	1.66E-04	14019	0.16	6.24E-06
1583	-0.20	2.38E-04	3859	-0.200	3.41E-12	6052	-0.10	2.29E-03	8365	-0.20	1.27E-05	10674	-0.16	7.05E-05	14031	-0.13	4.57E-04
1585	-0.10	3.34E-03	3862	0.100	2.32E-04	6061	-0.20	5.36E-04	8366	-0.20	1.22E-05	10677	0.26	1.72E-09	14038	-0.14	3.96E-04
1587	-0.50	5.73E-06	3878	-0.200	2.88E-09	6068	0.10	2.76E-04	8368	-0.10	1.92E-03	10678	-0.29	2.29E-04	14052	-0.17	7.77E-06
1588	-0.10	4.64E-03	3879	-0.200	2.38E-04	6069	-0.10	2.03E-03	8374	-0.10	9.29E-03	10686	0.15	2.86E-03	14057	-0.14	2.53E-04

1591	-0.20	6.44E-06
1599	0.30	4.72E-15
1604	-0.20	7.35E-04
1612	0.10	2.21E-03
1614	0.10	3.86E-04
1616	0.10	8.03E-03
1620	-0.20	5.81E-08
1622	0.10	3.21E-04
1623	0.10	9.03E-04
1625	0.20	1.65E-06
1628	-0.10	2.60E-03
1629	-0.10	2.47E-03
1635	-0.20	2.81E-11
1636	-0.30	1.71E-04
1637	0.20	1.36E-05
1642	0.20	1.32E-04
1644	-0.20	2.85E-05
1652	0.10	8.18E-03
1653	0.30	1.47E-14
1662	-0.20	1.66E-03
1663	-0.30	7.75E-05
1677	0.30	3.73E-11
1681	0.30	3.77E-09
1686	0.20	1.33E-09
1696	-0.30	4.59E-04
1714	-0.30	9.57E-04
1717	-0.30	1.01E-04
1722	0.30	4.06E-14
1730	0.40	1.70E-21
1731	-0.20	1.29E-06
1737	0.20	2.33E-04
1740	-0.20	7.27E-06
1741	0.10	1.34E-03
1743	-0.30	3.01E-05
1751	0.30	3.03E-13
1752	0.20	1.12E-10
1757	-0.20	1.06E-05
1763	0.10	6.28E-03
1764	-0.20	3.76E-08
1768	-0.20	5.15E-04
1772	-0.20	7.93E-03
1773	-0.20	8.33E-03
1776	-0.20	6.74E-04
1780	0.30	2.33E-19
1784	0.20	3.14E-04
1788	-0.10	5.79E-04
1789	0.20	1.80E-06
1790	-0.10	8.88E-05
1792	0.10	8.83E-03

3884	-0.300	5.34E-14
3885	0.200	2.20E-06
3886	0.300	1.34E-11
3889	-0.200	9.32E-04
3900	-0.100	3.12E-05
3902	-0.300	4.87E-08
3909	-0.200	9.89E-04
3910	0.100	4.13E-05
3911	-0.300	1.41E-06
3914	-0.300	6.55E-12
3917	0.200	3.22E-05
3918	-0.200	6.17E-04
3922	-0.100	1.30E-04
3926	0.100	4.89E-04
3927	-0.300	1.93E-13
3928	-0.100	2.93E-04
3929	0.100	8.17E-03
3937	-0.100	2.27E-04
3938	0.200	1.37E-03
3940	0.200	4.83E-07
3946	0.300	1.53E-17
3947	-0.200	5.78E-05
3951	0.100	1.52E-03
3953	-0.200	3.59E-03
3961	0.100	2.46E-03
3964	-0.300	4.94E-06
3972	0.300	3.25E-11
3985	-0.300	3.24E-04
3994	0.100	2.15E-04
3998	-0.300	1.27E-04
4011	0.200	7.49E-05
4015	0.200	1.06E-04
4017	-0.200	1.42E-06
4021	0.200	3.96E-04
4025	0.300	2.74E-12
4028	-0.300	5.72E-06
4031	-0.200	6.87E-04
4032	0.200	1.28E-08
4040	-0.100	4.12E-03
4044	-0.200	6.09E-05
4051	-0.200	9.67E-12
4052	-0.300	4.54E-14
4053	0.100	4.22E-04
4054	-0.100	4.62E-03
4060	0.200	1.08E-05
4061	0.200	1.30E-05
4065	-0.300	2.24E-04
4070	-0.200	5.06E-08
4075	-0.200	3.63E-05

6086	-0.30	7.14E-14
6087	-0.20	9.89E-07
6088	-0.20	5.45E-07
6089	-0.20	3.23E-06
6095	0.20	3.70E-03
6102	-0.20	4.25E-05
6103	-0.20	6.31E-05
6104	-0.20	1.09E-08
6105	0.20	2.01E-08
6112	-0.10	2.09E-03
6117	-0.10	6.07E-03
6118	0.10	1.48E-04
6119	0.20	3.15E-04
6127	-0.30	1.46E-06
6130	-0.10	7.24E-03
6131	0.10	3.13E-05
6134	-0.30	1.22E-12
6135	-0.30	9.00E-06
6141	0.20	8.53E-06
6142	-0.10	3.15E-03
6143	-0.10	6.69E-04
6147	-0.20	1.35E-03
6148	-0.40	2.30E-03
6152	0.20	3.63E-06
6158	-0.10	2.31E-04
6172	0.20	8.94E-06
6186	0.20	4.93E-04
6187	0.10	1.37E-03
6188	0.20	3.25E-03
6192	-0.20	8.78E-04
6193	0.20	6.76E-03
6203	0.10	9.39E-03
6204	-0.20	3.68E-04
6214	0.20	7.34E-08
6219	0.10	1.52E-03
6229	-0.10	8.74E-04
6230	0.10	8.80E-03
6233	0.10	7.61E-03
6238	0.10	3.96E-03
6239	-0.10	4.89E-03
6241	0.10	7.04E-03
6245	0.20	2.35E-10
6249	0.30	1.78E-18
6250	-0.30	4.11E-13
6253	-0.20	5.92E-12
6257	-0.30	4.42E-03
6258	-0.20	7.57E-06
6261	0.20	3.11E-08
6263	-0.20	3.57E-06

8377	0.20	3.99E-06
8383	0.20	2.97E-05
8384	-0.20	1.54E-03
8387	0.10	5.37E-03
8391	-0.20	1.84E-10
8395	-0.20	1.10E-08
8411	-0.20	1.73E-04
8412	-0.10	2.12E-04
8413	0.10	3.73E-04
8417	0.10	5.82E-04
8418	0.20	9.06E-05
8421	-0.30	4.96E-12
8423	-0.30	1.14E-14
8425	-0.20	2.27E-06
8433	-0.20	1.09E-07
8436	-0.10	8.44E-03
8446	-0.10	3.16E-04
8449	-0.10	1.09E-03
8451	-0.30	1.21E-08
8454	-0.30	1.49E-11
8466	0.20	4.69E-09
8467	0.20	2.62E-06
8468	0.20	7.06E-03
8471	-0.10	3.60E-03
8484	-0.30	1.97E-07
8485	0.10	7.09E-03
8487	-0.10	5.83E-03
8488	0.20	2.25E-06
8489	-0.20	2.48E-04
8490	-0.30	6.00E-04
8501	0.20	7.19E-04
8508	-0.20	6.42E-09
8515	0.20	9.78E-06
8521	0.10	8.87E-04
8522	0.10	4.64E-04
8523	0.10	8.31E-04
8524	0.10	9.58E-04
8526	-0.10	6.51E-03
8533	-0.30	3.59E-03
8539	0.10	4.40E-03
8540	0.10	7.09E-04
8547	-0.30	3.50E-04
8557	-0.30	1.58E-06
8559	0.10	2.39E-03
8560	0.20	2.67E-05
8562	-0.10	6.50E-04
8563	0.30	2.63E-07
8576	-0.20	3.68E-07
8580	-0.30	1.42E-09

10688	-0.25	1.77E-11
10711	-0.12	1.00E-03
10717	-0.26	3.60E-10
10722	0.19	3.96E-04
10728	0.15	3.05E-03
10730	-0.12	1.86E-03
10733	0.12	9.17E-03
10738	-0.18	8.95E-04
10758	-0.20	2.83E-04
10763	-0.43	6.45E-09
10774	0.15	8.17E-03
10778	0.25	3.77E-11
10791	-0.14	4.56E-04
10792	-0.14	6.70E-04
10802	0.13	8.19E-03
10807	-0.18	3.50E-06
10810	-0.19	3.26E-03
10818	-0.23	1.59E-09
10820	-0.15	4.00E-03
10837	0.26	3.56E-12
10838	0.16	3.99E-05
10866	0.13	3.23E-03
10872	-0.24	2.92E-08
10875	-0.13	5.39E-03
10877	0.19	4.61E-03
10878	0.12	9.82E-04
10888	-0.30	4.86E-11
10889	-0.15	4.63E-05
10891	-0.17	1.02E-04
10895	-0.14	5.61E-04
10906	-0.16	1.95E-04
10908	0.18	1.06E-05
10911	-0.14	1.34E-04
10917	-0.14	7.32E-03
10923	-0.28	1.67E-06
10924	0.15	9.10E-05
10926	-0.47	8.07E-09
10934	-0.25	1.80E-07
10943	-0.21	1.05E-04
10947	-0.19	3.88E-03
10948	-0.14	3.52E-04
10952	0.19	3.40E-06
10962	0.20	2.51E-06
10965	0.15	3.33E-05
10977	-0.15	3.77E-04
10980	0.26	2.37E-12
10983	-0.12	2.46E-03
10985	-0.19	1.58E-07
10991	0.19	2.96E-05

14079	0.30	3.31E-15
14081	-0.25	7.20E-07
14089	0.11	7.73E-03
14101	0.13	4.95E-03
14103	0.14	3.68E-03
14106	0.14	2.19E-05
14113	0.23	3.00E-08
14124	-0.20	8.31E-06
14131	-0.14	1.62E-04
14136	-0.18	4.24E-05
14144	0.11	5.28E-03
14164	-0.11	5.34E-03
14170	0.21	3.58E-09
14178	-0.10	6.28E-04
14189	0.21	1.07E-04
14191	-0.23	1.52E-07
14194	-0.30	3.04E-05
14195	-0.20	2.49E-05
14197	-0.20	9.86E-04
14206	0.28	9.39E-08
14222	-0.22	1.35E-03
14228	0.16	2.71E-06
14237	-0.21	6.07E-05
14242	-0.11	2.63E-03
14244	-0.19	1.52E-07
14246	-0.23	5.32E-10
14262	-0.10	7.10E-03
14265	-0.18	1.06E-05
14269	0.18	4.54E-04
14273	-0.27	3.38E-11
14290	-0.17	8.22E-03
14295	0.12	2.57E-03
14296	-0.23	1.94E-09
14300	-0.17	1.73E-05
14301	0.16	1.41E-06
14307	0.32	6.15E-18
14309	0.19	7.11E-08
14311	-0.14	2.46E-04
14316	-0.19	3.01E-07
14330	-0.23	5.54E-10
14369	0.20	2.25E-03
14377	0.16	1.44E-05
14379	-0.40	5.37E-07
14381	-0.30	2.22E-08
14389	-0.15	7.73E-05
14390	0.27	1.36E-08
14392	0.13	2.51E-03
14397	-0.16	4.79E-04
14405	0.15	5.27E-03

1795	-0.10	5.98E-03	4076	-0.400	2.36E-12	6264	-0.20	2.03E-03	8589	-0.20	3.79E-04	10995	-0.14	2.53E-03	14406	-0.21	6.09E-04
1798	0.20	1.08E-04	4079	0.200	9.76E-04	6267	-0.30	6.86E-06	8591	-0.10	1.36E-03	11000	-0.20	2.20E-03	14411	-0.19	2.18E-07
1799	0.20	1.31E-05	4081	0.200	1.49E-05	6272	-0.10	1.28E-04	8593	-0.30	8.88E-12	11007	-0.21	2.60E-05	14414	0.08	1.54E-03
1803	-0.30	2.90E-09	4084	0.300	5.81E-12	6280	-0.20	3.50E-04	8599	-0.10	5.40E-04	11013	-0.19	6.82E-05	14424	-0.30	2.52E-06
1805	-0.20	6.69E-06	4091	-0.400	4.21E-04	6284	0.10	2.38E-04	8604	-0.10	2.63E-03	11015	0.29	1.98E-04	14426	-0.11	3.89E-03
1806	0.20	3.28E-03	4096	0.300	3.61E-08	6285	0.20	4.83E-07	8611	-0.20	9.34E-08	11029	0.23	9.96E-07	14448	-0.14	3.70E-03
1815	-0.30	5.60E-06	4097	-0.200	3.33E-07	6289	0.10	2.76E-03	8612	-0.10	6.57E-03	11048	-0.27	4.85E-05	14450	0.17	3.37E-05
1816	0.20	6.09E-04	4098	-0.200	1.63E-06	6291	0.30	1.37E-07	8613	-0.20	4.26E-07	11060	0.14	4.49E-04	14454	0.21	1.25E-04
1825	-0.30	2.45E-17	4106	-0.100	4.37E-05	6293	0.20	2.38E-04	8614	-0.30	3.69E-08	11062	0.10	5.27E-03	14460	0.18	2.48E-06
1827	-0.10	3.76E-05	4121	-0.200	1.19E-04	6294	-0.10	5.16E-04	8616	-0.10	9.50E-03	11065	0.12	4.51E-04	14463	0.12	2.46E-03
1829	-0.20	7.51E-03	4130	0.200	1.86E-06	6303	0.20	1.63E-08	8617	0.20	7.08E-05	11088	0.22	4.50E-09	14474	-0.23	8.22E-06
1836	-0.20	8.50E-04	4134	-0.100	1.74E-04	6304	0.20	6.91E-09	8624	0.10	5.62E-04	11090	0.24	4.32E-05	14476	0.24	2.17E-06
1846	-0.30	6.88E-07	4135	-0.100	5.56E-03	6305	0.20	1.62E-03	8627	-0.20	2.02E-04	11096	0.27	7.30E-06	14478	-0.17	3.89E-04
1849	0.20	3.87E-04	4155	0.200	7.71E-06	6307	-0.20	6.26E-05	8630	0.20	1.71E-05	11101	0.17	4.15E-05	14479	-0.15	2.32E-04
1850	0.20	6.35E-03	4156	0.300	1.54E-10	6310	0.20	1.24E-05	8647	-0.10	2.75E-03	11102	0.24	2.79E-10	14484	0.25	5.19E-11
1851	-0.10	4.32E-03	4159	0.200	8.77E-05	6318	-0.10	1.51E-03	8651	-0.10	4.63E-03	11107	-0.11	3.98E-03	14498	-0.25	5.56E-06
1853	0.20	5.78E-03	4163	-0.200	1.45E-03	6329	-0.10	2.52E-04	8654	0.20	1.10E-04	11110	-0.16	9.13E-03	14502	-0.27	3.86E-03
1862	-0.10	1.84E-04	4164	0.100	4.96E-03	6330	-0.20	1.41E-05	8666	-0.30	4.03E-03	11127	-0.22	3.21E-08	14504	-0.17	6.57E-04
1864	-0.10	5.20E-03	4165	-0.200	9.45E-06	6337	-0.10	2.90E-04	8674	-0.10	1.09E-03	11130	-0.15	1.51E-03	14507	0.19	3.28E-07
1869	0.30	3.38E-13	4166	-0.200	7.19E-08	6340	-0.30	5.99E-07	8676	-0.20	7.96E-06	11139	-0.15	8.06E-05	14509	0.15	1.67E-04
1871	-0.20	7.35E-08	4167	0.200	4.35E-03	6345	0.10	7.89E-05	8679	0.10	1.44E-03	11145	-0.12	7.31E-03	14523	0.15	4.75E-05
1875	-0.30	2.52E-05	4170	0.200	1.60E-05	6346	-0.30	3.74E-06	8683	-0.20	5.92E-06	11149	0.13	7.25E-04	14524	-0.29	4.99E-08
1876	0.20	4.86E-05	4186	-0.200	5.91E-05	6349	-0.10	5.48E-04	8688	-0.20	1.34E-04	11151	0.30	3.78E-06	14528	0.13	5.62E-03
1879	-0.10	7.90E-03	4187	0.300	4.24E-07	6351	-0.10	1.07E-03	8689	0.10	1.94E-04	11153	-0.13	4.63E-04	14535	-0.11	4.62E-03
1884	-0.20	1.82E-08	4194	-0.100	1.42E-03	6352	-0.20	3.94E-04	8690	-0.10	1.81E-03	11157	-0.16	9.93E-05	14539	-0.20	2.97E-04
1887	0.10	3.09E-04	4196	0.100	9.08E-04	6358	0.10	6.91E-03	8693	-0.30	1.75E-12	11159	0.19	2.11E-08	14555	0.23	7.21E-10
1889	-0.30	8.10E-12	4202	0.200	1.30E-09	6360	-0.30	1.94E-04	8694	0.30	4.73E-12	11166	-0.12	1.09E-03	14582	0.12	2.91E-03
1890	0.20	2.92E-03	4203	0.100	1.29E-03	6365	-0.10	2.56E-03	8699	0.20	6.55E-08	11172	-0.23	5.42E-10	14603	0.15	3.91E-05
1893	0.20	2.00E-06	4205	0.100	3.85E-04	6366	-0.20	1.59E-04	8700	0.30	4.90E-08	11173	0.18	3.39E-06	14612	-0.28	2.49E-14
1900	0.20	8.76E-03	4211	0.200	3.09E-05	6369	0.10	5.95E-03	8703	0.20	1.44E-04	11174	0.17	2.54E-05	14616	-0.22	1.26E-04
1901	-0.20	7.17E-05	4212	-0.200	7.88E-05	6373	0.20	9.47E-09	8704	-0.30	1.17E-06	11181	-0.28	4.02E-06	14625	-0.18	1.14E-04
1902	-0.20	6.76E-05	4214	-0.300	4.17E-05	6374	-0.20	2.10E-06	8707	-0.40	6.08E-07	11182	0.10	5.77E-03	14628	-0.24	1.64E-12
1903	-0.20	7.22E-05	4215	0.100	4.64E-03	6375	0.20	8.92E-07	8708	-0.30	9.53E-07	11184	0.32	1.41E-16	14631	-0.15	6.45E-05
1906	-0.20	1.33E-05	4219	0.200	7.83E-04	6376	0.30	6.20E-13	8710	-0.30	2.39E-08	11191	-0.13	1.83E-04	14654	0.12	3.29E-03
1910	0.20	3.12E-04	4230	-0.300	4.76E-08	6381	0.20	5.00E-11	8712	-0.20	1.19E-04	11196	0.15	7.43E-05	14658	0.18	5.96E-08
1924	-0.20	8.30E-07	4231	0.200	7.55E-06	6391	0.20	7.48E-03	8714	-0.10	7.31E-03	11201	-0.17	4.29E-03	14659	0.20	9.59E-08
1927	-0.20	1.68E-03	4234	-0.300	2.60E-12	6394	0.20	3.77E-06	8715	-0.30	5.30E-12	11204	-0.26	8.85E-05	14661	-0.11	7.14E-03
1928	-0.20	1.87E-09	4244	-0.200	1.74E-05	6396	-0.20	2.64E-05	8721	0.10	7.35E-03	11206	-0.16	6.57E-05	14668	-0.23	2.53E-05
1929	0.20	1.13E-06	4245	-0.300	1.54E-06	6398	-0.30	3.38E-08	8724	0.20	1.19E-06	11210	0.23	1.73E-04	14695	-0.17	2.44E-05
1930	0.20	1.03E-06	4246	-0.200	3.30E-06	6402	-0.20	1.11E-04	8726	-0.30	2.56E-08	11219	-0.12	4.61E-03	14696	0.14	5.77E-03
1932	-0.30	5.41E-05	4248	-0.300	4.92E-03	6405	0.10	4.39E-04	8728	-0.50	1.76E-22	11224	0.12	7.91E-03	14697	-0.11	5.29E-03
1938	-0.30	1.22E-09	4249	0.100	6.98E-03	6406	0.20	4.71E-05	8731	0.10	1.66E-03	11236	-0.13	9.16E-03	14698	-0.11	6.68E-03
1939	0.10	3.11E-05	4252	-0.200	1.83E-07	6408	0.40	3.19E-23	8732	0.20	1.54E-06	11239	-0.15	1.61E-03	14699	0.22	8.28E-10
1941	0.30	4.48E-12	4259	0.300	1.12E-09	6411	-0.10	1.06E-03	8733	-0.10	5.31E-04	11244	0.12	8.54E-04	14700	-0.10	4.89E-03
1944	0.10	4.64E-04	4261	0.100	2.17E-04	6415	-0.20	1.45E-05	8740	0.20	2.09E-12	11254	-0.12	2.80E-05	14701	-0.22	3.11E-05
1950	-0.20	4.33E-04	4265	0.200	4.02E-06	6416	0.20	9.80E-08	8744	-0.20	1.29E-04	11278	-0.14	1.51E-04	14705	-0.13	5.54E-03
1963	-0.40	1.52E-05	4268	-0.100	7.26E-05	6417	0.30	7.78E-10	8745	-0.10	1.01E-03	11290	-0.15	2.14E-04	14710	-0.11	4.33E-03
1964	0.10	3.72E-03	4272	0.100	2.96E-04	6420	-0.20	8.19E-09	8747	0.10	7.74E-03	11302	0.27	1.04E-08	14722	0.13	4.74E-04
1969	0.20	4.08E-04	4274	-0.100	5.78E-03	6431	-0.40	1.55E-04	8754	0.20	3.50E-05	11303	-0.12	1.60E-03	14724	-0.14	2.15E-03

1971	0.10	3.20E-04	4276	-0.200	3.92E-07	6432	-0.30	9.50E-06	8757	-0.20	3.48E-07	11311	-0.18	4.30E-06	14727	0.13	4.39E-04
1974	-0.10	4.35E-04	4277	-0.100	1.63E-03	6436	0.40	5.62E-21	8759	-0.40	1.38E-06	11312	0.13	3.00E-03	14734	-0.16	1.71E-04
1978	-0.20	4.20E-04	4279	-0.100	9.19E-04	6437	0.20	2.15E-05	8764	-0.30	3.39E-05	11316	-0.26	5.06E-10	14739	0.25	5.66E-12
1980	0.20	7.26E-05	4281	-0.100	1.95E-03	6439	0.20	6.26E-05	8767	-0.20	1.48E-03	11321	-0.19	6.60E-07	14767	0.21	3.22E-05
1982	-0.10	2.18E-04	4287	-0.100	1.90E-03	6440	0.20	7.21E-09	8771	0.20	6.83E-05	11323	-0.25	7.28E-07	14773	-0.21	2.03E-07
1983	0.10	5.88E-06	4297	0.300	7.78E-14	6441	0.30	2.72E-03	8773	-0.20	4.41E-07	11337	0.15	2.89E-05	14777	-0.21	7.35E-08
1986	-0.30	1.03E-03	4298	-0.100	4.99E-03	6463	-0.10	6.80E-05	8774	0.10	1.62E-03	11340	0.15	3.71E-05	14780	-0.14	5.76E-03
1988	-0.10	3.50E-03	4299	-0.200	3.10E-05	6464	-0.20	2.04E-04	8780	0.20	9.97E-04	11343	0.30	6.56E-16	14781	-0.38	1.03E-06
1990	-0.30	1.30E-06	4301	-0.300	1.40E-09	6468	-0.20	6.04E-04	8790	0.10	7.45E-03	11344	0.17	2.64E-05	14783	0.15	8.50E-05
1992	0.20	2.38E-03	4304	0.200	1.63E-03	6478	0.10	4.00E-04	8792	-0.20	1.40E-03	11355	-0.21	4.18E-05	14790	-0.29	1.30E-04
1996	0.30	4.16E-08	4313	0.200	1.14E-05	6485	-0.20	4.57E-04	8793	0.20	3.31E-08	11359	-0.16	3.21E-05	14791	0.17	1.17E-05
1997	0.30	3.58E-04	4314	0.100	4.47E-04	6487	0.20	6.22E-06	8800	0.30	3.40E-07	11360	0.11	8.47E-03	14797	0.18	5.27E-07
1999	0.10	3.99E-03	4315	-0.200	1.04E-04	6493	-0.40	2.91E-07	8801	-0.20	3.06E-04	11362	-0.45	5.92E-06	14800	-0.11	3.83E-03
2002	-0.50	4.74E-06	4321	-0.300	5.38E-06	6498	-0.20	1.48E-06	8805	-0.20	1.80E-07	11375	-0.15	1.54E-03	14801	-0.12	2.69E-03
2003	-0.10	6.80E-03	4327	0.100	1.76E-03	6515	0.30	4.95E-07	8810	-0.10	4.87E-03	11382	-0.13	1.20E-03	14806	-0.27	1.04E-05
2004	0.20	7.14E-05	4328	0.200	1.34E-04	6523	-0.10	7.38E-05	8814	-0.20	1.47E-03	11383	0.13	9.88E-04	14817	-0.20	1.99E-04
2009	-0.20	7.13E-07	4332	-0.100	9.28E-03	6531	0.20	3.06E-04	8820	-0.20	4.60E-06	11384	-0.22	1.13E-08	14836	-0.16	7.07E-03
2010	0.20	1.06E-04	4333	-0.200	1.62E-05	6532	-0.30	4.61E-06	8824	-0.30	3.65E-07	11386	-0.20	2.39E-04	14839	-0.20	5.85E-08
2014	0.20	2.29E-04	4334	0.200	5.30E-13	6540	-0.20	1.03E-04	8834	0.30	4.75E-10	11390	-0.28	1.42E-10	14872	-0.43	2.51E-05
2017	-0.20	4.39E-07	4335	0.100	5.63E-03	6544	0.20	8.81E-10	8839	-0.30	9.99E-10	11396	0.11	7.02E-03	14886	0.16	1.30E-05
2018	0.20	1.87E-05	4343	0.200	1.71E-05	6545	0.10	6.52E-03	8841	-0.20	2.18E-06	11403	-0.14	3.24E-03	14898	-0.08	9.91E-03
2019	0.20	6.22E-06	4345	0.200	3.62E-05	6549	-0.20	7.37E-06	8843	-0.10	7.97E-04	11408	-0.19	4.88E-06	14904	0.18	1.60E-06
2024	0.30	9.42E-09	4352	0.200	2.11E-10	6550	-0.10	2.53E-04	8848	-0.20	1.63E-09	11410	-0.14	2.02E-04	14915	0.24	5.57E-10
2030	0.10	2.50E-03	4357	-0.200	4.68E-06	6551	-0.20	2.00E-03	8849	-0.40	2.26E-09	11415	-0.48	4.46E-07	14916	0.12	3.44E-03
2037	-0.10	3.59E-03	4358	0.300	9.60E-05	6555	0.30	6.39E-14	8854	-0.20	9.07E-03	11417	0.12	1.79E-03	14925	0.18	7.94E-08
2041	-0.10	5.94E-03	4362	-0.200	9.43E-07	6561	-0.30	6.03E-03	8855	-0.20	2.21E-09	11432	-0.12	1.04E-03	14937	0.30	5.33E-18
2043	-0.20	1.59E-04	4363	0.100	4.86E-03	6564	0.20	1.68E-05	8857	0.20	3.88E-05	11443	-0.12	8.57E-03	14944	-0.37	4.87E-05
2044	-0.10	6.80E-04	4379	-0.500	2.77E-06	6565	0.10	2.69E-03	8859	-0.20	1.66E-04	11444	0.12	6.16E-03	14966	-0.13	3.75E-04
2049	0.20	3.47E-06	4386	-0.200	1.43E-06	6568	-0.20	9.14E-10	8861	-0.20	2.42E-05	11446	0.21	1.42E-06	14972	0.18	2.71E-06
2057	0.10	8.20E-03	4387	-0.100	1.33E-03	6571	-0.20	4.95E-04	8865	-0.20	2.69E-05	11447	-0.19	3.18E-03	14973	0.17	5.87E-05
2059	0.30	9.93E-14	4396	0.300	1.14E-12	6572	-0.20	6.77E-05	8867	0.20	6.78E-08	11462	0.18	9.92E-04	14974	-0.27	2.76E-10
2075	-0.20	8.21E-07	4398	-0.200	6.26E-06	6576	0.30	1.57E-03	8880	-0.10	5.34E-03	11471	0.13	5.75E-04	14975	0.19	1.07E-05
2077	0.20	3.04E-08	4399	0.200	1.81E-03	6579	0.20	2.82E-03	8883	-0.40	1.53E-04	11480	-0.17	2.56E-05	14980	-0.18	1.11E-04
2078	-0.10	7.96E-05	4401	-0.200	1.62E-03	6582	0.30	2.18E-15	8888	0.20	2.51E-08	11485	-0.20	9.77E-04	14989	-0.23	4.32E-03
2088	0.10	1.85E-04	4409	-0.100	1.71E-03	6585	-0.20	1.14E-07	8898	-0.20	7.62E-08	11489	0.27	1.45E-03	14996	-0.14	2.92E-04
2090	-0.20	2.36E-06	4415	-0.100	2.78E-04	6587	0.10	6.62E-04	8899	-0.20	1.99E-08	11492	-0.11	2.46E-03	15001	-0.19	4.24E-04
2093	-0.20	3.68E-11	4417	0.300	1.27E-07	6596	-0.10	7.10E-03	8904	-0.20	2.40E-04	11495	0.09	5.37E-03	15003	-0.18	1.13E-05
2094	-0.10	1.14E-04	4424	0.200	2.59E-05	6600	0.20	4.54E-07	8908	-0.20	9.84E-10	11497	0.35	3.87E-12	15008	-0.27	1.59E-07
2101	-0.10	4.29E-03	4425	0.200	4.48E-07	6601	-0.10	3.70E-03	8910	0.40	4.31E-21	11499	0.14	6.81E-04	15012	-0.53	9.51E-06
2105	0.20	7.75E-04	4426	-0.200	1.94E-05	6605	0.10	7.79E-03	8911	0.20	9.35E-06	11508	-0.14	9.40E-03	15017	-0.23	1.58E-03
2107	0.40	1.89E-14	4427	-0.200	5.27E-04	6606	0.40	1.19E-05	8914	0.10	2.38E-03	11510	0.12	1.14E-03	15023	-0.13	1.81E-03
2110	0.10	2.55E-04	4430	0.200	1.95E-05	6617	0.40	1.07E-06	8915	-0.10	9.35E-03	11515	-0.16	1.94E-04	15026	-0.14	4.39E-04
2116	-0.20	8.29E-03	4435	-0.200	3.11E-03	6619	-0.20	5.62E-07	8916	-0.10	8.36E-03	11522	-0.36	7.79E-05	15042	-0.25	1.48E-06
2118	0.20	1.63E-08	4445	0.200	2.52E-06	6621	-0.20	1.27E-04	8919	-0.20	1.77E-08	11536	-0.14	1.65E-03	15047	-0.19	4.37E-05
2123	0.20	1.50E-04	4446	-0.300	1.75E-09	6626	-0.20	3.44E-06	8922	-0.10	5.52E-03	11547	0.18	1.67E-05	15053	-0.22	2.22E-03
2126	0.30	1.11E-10	4450	-0.100	2.54E-03	6635	-0.30	2.79E-06	8928	-0.20	2.78E-05	11549	-0.20	5.04E-05	15060	-0.25	1.03E-10
2131	-0.30	1.34E-05	4453	-0.100	2.25E-03	6639	0.20	1.31E-06	8941	-0.30	1.55E-05	11553	0.20	1.47E-08	15086	-0.11	3.77E-03
2133	0.10	2.17E-04	4464	-0.300	1.97E-04	6643	0.20	5.45E-06	8954	0.30	3.01E-13	11555	-0.11	4.76E-03	15092	0.10	7.98E-03
2134	0.10	9.59E-04	4468	-0.200	2.52E-04	6648	-0.40	1.93E-05	8955	0.20	2.63E-07	11556	0.31	1.07E-08	15104	0.18	1.78E-05

2140	0.20	2.17E-04
2144	-0.10	2.23E-03
2163	-0.20	7.36E-04
2164	-0.20	3.50E-03
2165	-0.20	4.24E-03
2166	-0.10	1.40E-03
2172	0.20	5.13E-06
2187	-0.30	2.01E-06
2193	0.10	3.48E-03
2200	-0.30	1.04E-04
2201	0.10	5.83E-03
2211	0.20	9.10E-05
2215	0.20	8.19E-08
2218	0.10	1.02E-04
2224	0.30	3.30E-11
2226	-0.30	2.04E-04
2227	-0.20	6.89E-06
2228	-0.20	1.33E-03
2229	-0.20	1.55E-06
2231	0.30	1.49E-08
2245	-0.30	3.63E-11
2246	0.30	6.51E-03
2248	-0.10	1.88E-04
2250	-0.20	9.69E-06
2251	-0.10	1.20E-03
2257	-0.10	8.48E-03
2260	-0.20	3.77E-04
2261	-0.20	1.42E-05
2266	-0.30	1.19E-03
2268	-0.20	1.50E-04
2283	-0.10	1.07E-03
2285	-0.20	3.22E-07
2293	0.20	1.59E-08
2294	0.20	1.43E-08
2295	-0.20	5.80E-05
2300	0.20	5.67E-10
2303	0.20	9.72E-06
1831	-0.09	5.00E-02
1888	0.07	5.00E-02
2876	0.06	5.00E-02
3932	-0.08	5.00E-02
4251	0.61	5.00E-02
4260	0.12	5.00E-02
4292	-0.13	5.00E-02
4324	0.08	5.00E-02
4392	-0.13	5.00E-02
4465	0.04	5.00E-02
4818	-0.05	5.00E-02
4850	-0.10	5.00E-02

4469	-0.200	3.72E-03
4478	-0.300	6.94E-07
4481	0.200	1.41E-05
4485	-0.200	1.63E-05
4486	0.300	2.84E-05
4487	0.100	3.51E-04
4493	-0.300	4.07E-14
4499	-0.200	9.71E-05
4501	0.100	3.44E-03
4502	0.100	5.33E-04
4503	0.200	7.61E-06
4505	0.100	8.86E-05
4510	-0.200	3.65E-03
4515	0.100	2.38E-03
4525	-0.200	3.19E-06
4528	-0.200	5.84E-05
4530	0.200	6.88E-03
4532	-0.200	4.60E-03
4536	0.300	4.27E-13
4537	-0.300	1.25E-07
4542	0.300	7.10E-17
4543	0.300	3.81E-08
4551	-0.200	5.07E-05
4555	-0.200	3.89E-03
4558	0.200	6.00E-04
4559	0.200	1.07E-03
4567	-0.200	1.26E-03
4576	0.100	3.51E-03
4577	0.200	3.77E-04
4578	0.200	1.15E-06
4580	-0.200	4.19E-06
4581	0.200	5.45E-11
4582	0.200	3.28E-08
4583	0.300	1.24E-13
4584	0.200	6.43E-06
4589	0.200	2.50E-08
4596	-0.100	8.70E-03
14847	0.482	5.00E-02
14911	-0.249	5.00E-02
15046	0.735	5.00E-02
15207	0.027	5.00E-02
15304	0.607	5.00E-02

6651	-0.20	5.84E-04
6659	0.20	1.07E-10
6660	-0.30	1.92E-12
6661	-0.20	8.56E-05
6662	-0.20	7.95E-05
6671	-0.20	1.15E-06
6675	-0.20	1.30E-04
6676	-0.10	9.45E-03
6678	0.20	2.12E-03
6683	-0.10	1.33E-04
6685	-0.20	7.34E-03
6689	-0.20	3.48E-08
6692	0.10	4.34E-05
6694	-0.20	9.25E-03
6697	0.20	3.12E-07
6701	-0.20	2.23E-03
6703	-0.30	2.93E-08
6708	-0.30	1.36E-06
6714	-0.10	6.66E-05
6716	0.10	2.05E-03
6717	0.10	3.55E-03
6722	-0.10	1.51E-03
6724	0.20	2.50E-06
6726	-0.20	2.36E-04
6727	0.30	6.29E-08
6732	-0.20	1.62E-05
6735	0.20	7.47E-05
6742	-0.20	3.44E-03
6749	-0.30	1.92E-09
6751	-0.10	4.16E-03
6755	0.20	1.91E-08
6757	-0.30	4.15E-12
6758	-0.10	1.66E-03
6764	0.20	3.09E-04
6776	0.10	4.26E-03
6780	-0.30	1.03E-09
6783	-0.10	8.40E-03

8958	0.10	3.61E-04
8959	-0.20	5.97E-06
8960	-0.20	1.33E-08
8963	-0.20	7.50E-06
8970	-0.10	6.90E-03
8971	0.10	6.34E-05
8980	-0.20	1.03E-05
8981	-0.40	1.87E-19
8985	-0.40	7.64E-05
8992	0.20	6.63E-04
8993	0.20	6.68E-04
8996	0.10	9.89E-04
8997	0.10	1.22E-04
9003	0.10	7.67E-04
9006	0.10	1.04E-03
9011	0.10	1.18E-03
9013	-0.10	4.02E-04
9027	-0.20	2.16E-05
9029	0.20	3.75E-03
9030	0.10	2.37E-03
9034	0.10	9.96E-04
9035	0.20	1.53E-03
9040	-0.10	7.78E-04
9043	-0.20	1.48E-03
9046	-0.30	2.94E-11
9050	-0.20	1.71E-07
9054	-0.10	3.19E-03
9055	-0.20	6.45E-08
9056	-0.10	6.09E-05
9057	-0.20	6.10E-06
9059	-0.20	2.11E-04
9065	0.20	7.29E-05
9072	0.10	5.32E-03
9082	-0.10	3.67E-03
9084	-0.20	1.54E-08
9087	-0.20	5.30E-07
9089	-0.10	4.74E-03

11569	0.11	8.13E-03
11574	-0.16	9.58E-03
11582	0.10	1.07E-03
11601	-0.14	1.03E-04
11602	0.15	1.14E-03
11603	0.19	1.09E-04
11605	-0.18	1.90E-06
11613	0.10	6.49E-03
11618	0.26	1.50E-09
11628	-0.11	3.47E-03
11631	0.11	3.31E-03
11639	-0.24	3.46E-08
11641	0.18	7.48E-05
11647	-0.36	9.34E-05
11649	-0.10	7.09E-03
11652	-0.19	4.73E-03
11659	-0.12	1.74E-03
11662	-0.18	8.22E-03
11673	0.11	9.20E-03
11680	-0.14	2.57E-04
11684	0.23	1.19E-06
11692	-0.33	1.58E-05
11701	-0.14	1.21E-03
11704	0.20	2.95E-05
11717	-0.12	1.30E-03
11719	-0.18	7.71E-05
11722	-0.12	1.86E-03
11726	0.24	1.53E-10
11728	-0.30	1.72E-07
11742	0.21	1.67E-03
11745	-0.14	3.03E-04
11754	-0.18	4.17E-05
11756	0.31	5.14E-17
11757	-0.26	3.55E-09
11758	-0.22	2.76E-04
11759	0.10	3.51E-04
11771	0.12	2.15E-03

15113	-0.21	5.37E-05
15121	0.17	2.41E-03
15128	0.23	8.07E-09
15131	-0.10	8.79E-03
15133	-0.30	3.38E-04
15135	-0.10	6.64E-03
15149	0.29	1.31E-04
15164	0.16	2.18E-05
15182	0.12	2.90E-03
15184	-0.25	8.60E-11
15187	-0.38	1.08E-06
15211	-0.16	2.38E-04
15232	0.16	6.44E-03
15236	-0.17	4.40E-03
15239	0.21	6.80E-06
15241	0.17	7.28E-06
15242	-0.17	1.09E-03
15243	-0.26	1.62E-05
15244	-0.37	8.02E-08
15252	0.17	7.79E-05
15260	-0.23	2.17E-08
15291	0.13	1.10E-03
15293	-0.11	4.73E-03
15320	-0.26	5.74E-04
15333	0.15	4.87E-05
15348	-0.10	4.98E-03
15351	0.22	4.65E-07
15368	-0.27	6.91E-11
15375	-0.11	7.67E-03
134	0.04	5.00E-02
329	0.08	5.00E-02
616	0.06	5.00E-02
820	0.11	5.00E-02
1060	0.84	5.00E-02
1192	-0.04	5.00E-02
1211	-0.06	5.00E-02
1426	0.06	5.00E-02

5282	-0.14	5.00E-02
5543	0.28	5.00E-02
5783	0.18	5.00E-02
5981	-0.10	5.00E-02
6032	-0.06	5.00E-02
6107	-0.08	5.00E-02
6213	0.08	5.00E-02
6425	-0.06	5.00E-02
6769	0.10	5.00E-02
6946	-0.07	5.00E-02
7015	-0.05	5.00E-02
7153	-0.19	5.00E-02
7171	0.05	5.00E-02
8350	-0.04	5.00E-02
8556	0.06	5.00E-02
8570	0.12	5.00E-02
8584	-0.11	5.00E-02
8918	0.04	5.00E-02
8920	-0.12	5.00E-02
8983	-0.04	5.00E-02
9374	0.09	5.00E-02
9555	0.37	5.00E-02
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11297	0.33	5.00E-02
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11416	0.43	5.00E-02
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13454	0.15	5.00E-02
13564	0.40	5.00E-02
13696	-0.47	5.00E-02
13705	-0.09	5.00E-02
13792	-0.27	5.00E-02

14243	-0.25	5.00E-02
14459	-0.47	5.00E-02
14620	-0.07	5.00E-02

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Claims

1. A method for selecting an animal for milk protein yield, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 1; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of milk protein yield.

2. The method of claim 1, wherein said genetic marker is selected from the group consisting of SEQ ID NOs 918, 14764, 14077, 1485, 14930, 13117, 14167, 10473, 12727 and 12712.

3. A method for selecting an animal for milk fat yield, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 2; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of milk fat yield.

4. The method of claim 3, wherein said genetic marker is selected from the group consisting of SEQ ID NOs 15210, 1879 and 5684.

5. A method for selecting an animal for cell count, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 3; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of cell count.

6. The method of claim 5, wherein said genetic marker is selected from the group consisting of SEQ ID NOs 13145, 13233, 11708, 2585, 14285, 13696, 11141, 14210, 14139 and 14852.

7. A method for selecting an animal for Australian profit ranking, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 4; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of Australian profit ranking.

8. The method of claim 7, wherein said genetic marker is selected from the group consisting of SEQ ID NOs 13285, 14001, 13322, 14830, 15154, 15122, 6855, 15288, 10914 and 13101.

9. A method for selecting an animal for Australian selection index, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 5; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of Australian selection index.

10. The method of claim 9, wherein said genetic marker is selected from the group consisting of SEQ ID NOs 1651, 4718, 13728, 1485, 12270, 13868, 9172, 14986, 11428 and 13354.

11. A method for selecting an animal for milk fat percent, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 6; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of milk fat percent.

12. A method for selecting an animal for milk protein percent, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 7; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of milk protein percent.

13. A method for selecting an animal for milk volume, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 8; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of milk volume.

14. A method for selecting an animal for cow fertility, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 9; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of cow fertility.

15. A method for selecting an animal for milking speed, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 10; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of milking speed.

16. A method for selecting an animal for temperament, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 11; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of temperament.

17. A method for selecting an animal for calving ease, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 12; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of calving ease.

18. A method for selecting an animal for survival, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 13; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of survival.

19. A method for selecting an animal for mammary system, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 14; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of mammary system.

20. A method for selecting an animal for overall type, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 15; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of overall type.

21. A method for selecting an animal for teat length, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 16; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of teat length.

22. A method for selecting an animal for centre ligament, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 17; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of centre ligament.

23. A method for selecting an animal for udder depth, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 18; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of udder depth.

24. A method for selecting an animal for likeability, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 19; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of likeability.

25. A method for selecting an animal for live weight, wherein said method comprises:

(a) analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Table 20; and

(b) selecting the animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of live weight.

26. The method of any one of claims 1 to 25, wherein said polymorphism is a single nucleotide polymorphism.

27. A method for breeding an animal, wherein parents of said animal are selected according to the method of any one of claims 1 to 26.

28. The method of claim 27, further comprising:

(c) analyzing a nucleic acid sample from progeny of said parents for a polymorphism in at least one genetic marker selected from the group set out in Tables 1 - 20; and

(d) selecting said progeny based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of a trait set out in Tables 1 – 20, respectively.

29. The method of claim 27 or 28, wherein the trait is selected from the group consisting of milk protein yield, milk fat yield, cell count, Australian profit

ranking (APR), Australian selection index (ASI), milk fat percent, milk protein percent, milk volume, cow fertility, milking speed, temperament, calving ease, survival, mammary system, overall type, teat length, centre ligament, udder depth, likeability and live weight.

30. The method of claim 29, wherein the trait is selected from the group consisting of milk protein yield, milk fat yield, cell count, Australian profit ranking (APR), Australian selection index (ASI), milk fat percent, milk protein percent, milk volume, cow fertility, milking speed, temperament, calving ease, survival, mammary system, overall type and teat length.

31. The method of claim 29, wherein the trait is selected from the group consisting of milk protein yield, milk fat yield, cell count, Australian profit ranking (APR), Australian selection index (ASI), milk fat percent, milk protein percent and milk volume.

32. A method for managing an animal, wherein said animal is selected according to the method of claims 1 to 26.

33. The method of claim 32, wherein said management of the animal is comprises determining whether the animal is to be used for breeding purposes, or production purposes or culled.

34. A kit for selecting an animal for a trait set out in Tables 1 – 20, wherein said kit comprises:

(a) means for analyzing a nucleic acid sample from said animal for a polymorphism in at least one genetic marker selected from the group set out in Tables 1 – 20, respectively; and

(b) selecting said animal based on the presence or absence of the polymorphism in the at least one genetic marker, wherein the polymorphism is predictive of the trait.

35. An animal selected by the method of any one of claims 1-26, or by use of the kit of claim 34.

36. An animal bred by the method of any one of claims 27 to 31.

37. A progeny animal selected by the method of claim 28.

38. An animal product derived from the animal of claim 36 or 37.

39. The animal product of claim 38, wherein said product may comprise or be derived from milk.

40. The method of any one claims 1 to 39, wherein said animal is selected from the group comprising cattle, water buffalo, bison, sheep, goat, deer, alpaca, llama, deer, and pig.

41. The method of any one claims 1 to 40, wherein said animal is a bovid.

42. The method of claim 41, wherein said bovid is cattle.

43. A genetic marker, wherein said marker is selected from the group comprising SEQ ID NOs: 1 to 15380.

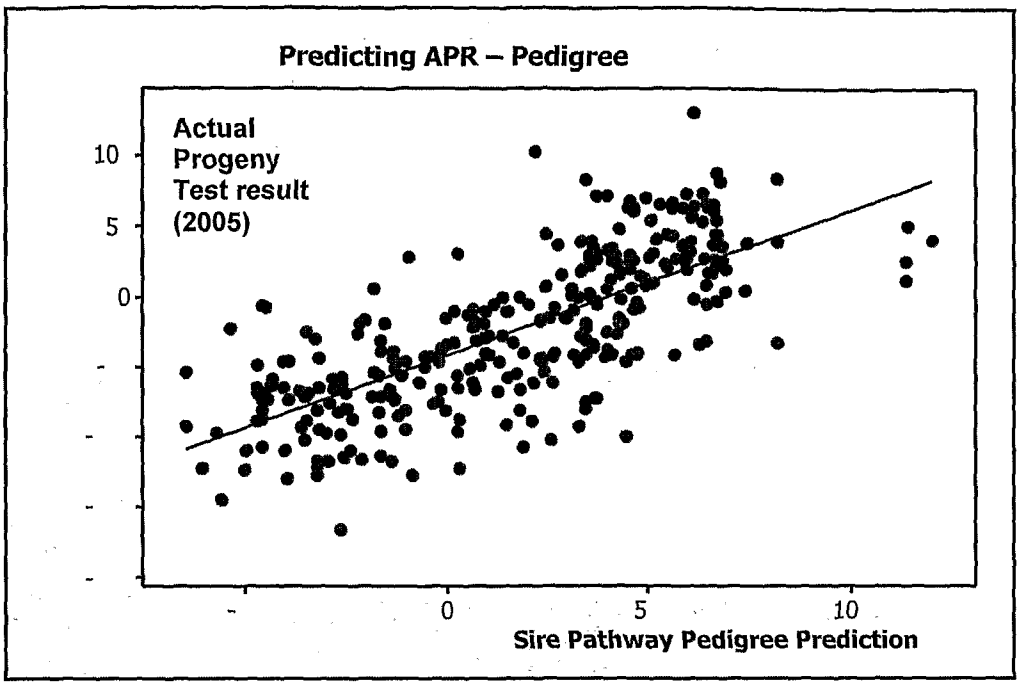
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Figure 1

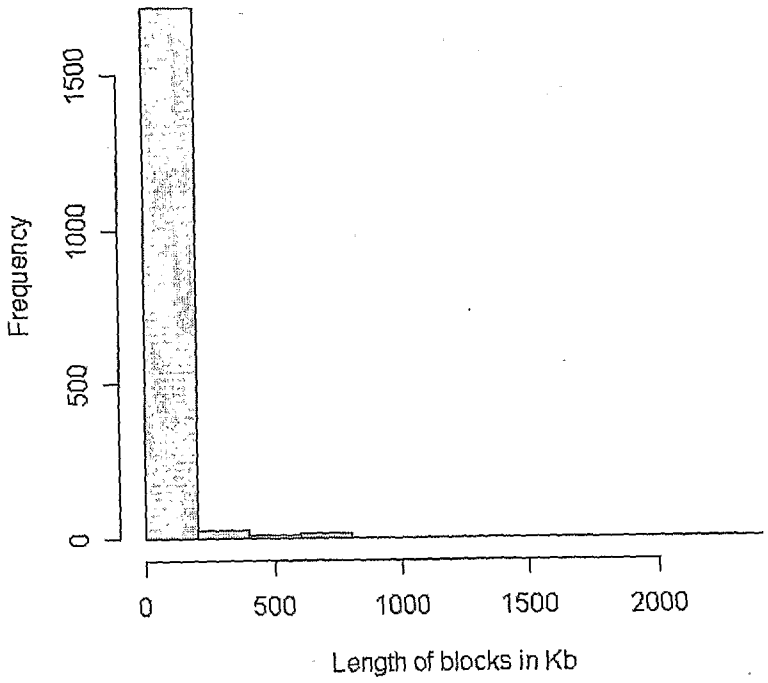
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Figure 2