Supplementary Appendix

This appendix has been provided by the authors to give readers additional information about their work.

Supplement to: Chin C-S, Sorenson J, Harris JB, et al. The origin of the Haitian cholera outbreak strain. N Engl J Med 2010;364:33-42. DOI: 10.1056/NEJMoa1012928.

Supplementary Methods

Sample Collection and Construction of DNA Sequencing Libraries

Samples of spontaneously passed stool were cultured from patients with a clinical diagnosis of cholera on thiosulfate-citrate-bile-sucrose (TCBS) agar, and subsequently subcultured and stabbed in Amies clear transport medium. All patients received standard medical treatment for cholera, as appropriate to their clinical condition. Bacterial isolates were shipped back to the US for analysis, utilizing an import license for this purpose provided through the Centers for Disease Control and Prevention (2010-10-108). Isolates were identified as *Vibrio cholerae* and susceptibility testing was done in the Clinical Microbiology Laboratory of the Massachusetts General Hospital by standard methods. The organisms were susceptible to tetracycline and erythromycin but resistant to trimethoprim-sulfamethoxazole and nalidixic acid. The use of bacterial isolates from otherwise discarded stool samples and without individual patient identifiers is exempt from human subject regulations. Existing clinical isolates for the 1991 outbreak in Peru, strain C6706 (C6), the 2008 outbreak in Bangladesh, strain MDC126 (M4), and the 1971 outbreak in Bangladesh, strain N16961 (N5) were cultured as described above.

Approximately ~20 ug of isolated nucleic acid (genomic DNA) for 5 samples C6, N5, M4, H1, and H2 was sent to Pacific Biosciences for sequencing. SMRTbell™ libraries were prepared for each sample. A SMRTbell is a double-stranded DNA template capped by single-stranded hairpin loops at both ends (Travers et al, 2010). Genomic DNA was mechanically sheared to a target size of 2,000 base pairs (bp) using a Covaris™ S2 System (Covaris, Woburn, MA) according to the manufacturer's instructions. Sheared samples were then concentrated and size-selected (i.e., fragments greater than 100 bp were retained) by Solid Phase Reversible Immobilization (SPRI) paramagnetic bead based technology (AMPure XP ™, Beckman-Coulter,

Danvers, MA). Samples were eluted in a final volume of 20 uL 10mM Tris pH 7.5, with concentrations ranging from 0.5 to 1 ug/uL (Nanodrop, Thermo Scientific, Wilmington, DE). Fragment size distributions were verified by standard agarose gel electrophoresis (Flashgel, Lonza Rockland, Inc. Rockland, ME), and using an Agilent 2100 Bioanalyzer with DNA 7500 chemistry (Agilent, Santa Clara, CA). The means from the fragment distributions were between 1700-2000 bp. Blunt ends were generated in an end-polishing reaction, and the 5'ends simultaneously phosphorylated.

Universal hairpin adapters were ligated onto the ends of the prepared DNA fragments. Hairpin adapters are single-stranded oligonucleotide loops of sequence 5'–pATCTCTCTCTTTTCCTCCTCCTCCGTTGTTGTTGTTGAGAGAGAT–3'. Prior to ligation, hairpins were diluted to 20 uM in the presence of 10 mM Tris (pH 7.5) and 100mM NaCl and annealed into a stem-loop structure. Annealed hairpins were added at ~30X molar excess relative to the insert and ligated using T4 DNA ligase (New England Biolabs, Ipswich, MA). Failed ligation products are removed through the use of exonucleases as previously described[1].

Hairpin dimers formed during ligation were removed in a final magnetic bead purification (double-SPRI) with size-selective conditions (i.e., SMRTbells >500bp were retained). Purified SMRTbell libraries were eluted in a final volume of 15uL 10mM Tris pH 7.5, with concentrations between 0.1 – 0.25 ug/uL (Nanodrop, Thermo Scientific, Wilmington DE). SMRTbell size distributions were determined using an Agilent 2100 Bioanalyzer with DNA 7500 chemistries (Agilent, Santa Clara, CA). SMRTbell libraries were centered on a mean of 1800-2100 bp.

SMRTbells were annealed to sequencing primer complementary to a sequence in the hairpin loop (5'– AACGGAGGAGGAGGA –3') at a final concentration of 40nM DNA template.

DNA Sequencing

Samples were received for processing on 10 November 2010. Prior to sequencing, SMRTbell libraries for each of the strains sequenced, H1 and H2 (Cholera strains isolated from Haitian patients), M4 (Cholera strain MDC126), C6 (Cholera strain C6706), and N5 (Cholera strain N16961), were bound individually to the DNA polymerase enzyme used for sequencing. The binding reactions were carried out in an R&D version of a proprietary binding kit similar to what has been previously described[2]**.** For each sample, 3nM of the appropriate SMRT bell library was bound with 9nM polymerase in the presence of phospholink™ nucleotides at 30°C for 4 hours.

Cholera SMRTbell libraries were sequenced in similar manner to what has been previously described[2]**.** The SMRTbell library-polymerase complexes were immobilized for 30 minutes on nanofabricated chips, each containing an array of sequencing zero-mode waveguides (ZMWs). Prior to sequencing, the chips had been functionalized with surface chemistries to provide specific biased immobilization of the SMRTbell DNA-polymerase complexes to the bottom of the ZMWs[3]. After washing unbound complexes, the sequencing reactions were initiated using an R&D version of the PacBio commercial sequencing reaction mix. Sequencing was then carried out for 30-45 minutes on the PacBio-*RS* Sequencer. First round (primary) sequencing was completed in under two days, followed by several subsequent sequencing rounds of certain of the strains guided by bioinformatic sequence analysis.

Resequencing analysis

The canonical reference sequence for the *Vibrio cholerae* genome is derived from the N16961 strain[4]. For mapping the sequencing reads to the N16961 reference we used the FASTA sequences found at NCBI accession numbers AE003852.1 (large chromosome) and AE003853.1 (small chromosome).

The sequencing analysis pipeline consisted of filtering, reference alignment, and consensus calling steps. Reads were filtered by requiring that each raw read had a raw read length > 50bp and an estimated accuracy of at least 75%. This reduced the number of reads from non-sequencing zero-mode waveguides while removing few true sequencing reads, as the raw readlength averaged > 1,000bp in these data. Reads were aligned to the N16961 reference using a computational variant of the Smith-Waterman algorithm, which finds chains of exact sequence hits in the reference sequence and refines these chains into Smith-Waterman local alignments. A multiple sequence alignment (MSA) was constructed by using the reference-guided pairwise alignments. Consensus sequences were called for each isolate using a majority-rule plurality algorithm. Supplementary Table 1 summarizes the raw statistics of the sequencing reads.

To investigate the effect of the filtering step on the data, we also aligned reads to the reference without imposing any pre-alignment filtering. Only significant hits were kept to the reference as measured by comparison to a random alignment model. Under these conditions, average read length of the underlying sequence was 1,100±170 bp and the sequenced depth of coverage was increased by 44-66%, without an appreciable distortion in the coverage uniformity. These results suggest that for the purposes of coverage analysis, we should be able to derive more power from the same input data by allowing more reads through the early analysis stages and applying significance tests after reference alignment.

Sequence Coverage Analysis

The depth of coverage across the N16961 reference was plotted for each isolate and there was clearly low-frequency variation in the depth of coverage resulting from the origin-of-replication[5] (Supplementary Figure 2a). To examine variations in the average depth-of-coverage, this linear trend was removed from the depth of coverage data before further statistical analysis. Specifically, for each isolate and each chromosome, the depth of coverage was fit to a symmetrical linear model assuming the origin-of-replication at 0 and the opposite pole to be at half the total genome length. This linear trend was then removed from the data to display the coverage count data shown in Figure 1 of the main text. Supplementary Figure 2b shows a representative example of this procedure for the H1 strain and the coverage across the large chromosome.

For Figure 1 in the main text, the coverage variation was normalized using an estimate of the mean and standard deviation after removing outliers more than 4 standard deviations away. Regions with coverage greater than 4 standard deviations, after this re-estimate of the sample mean and standard deviation, were colored with green (high) or red (low) points (Supplementary Table 4).

Supplementary Figure 1 suggests that the background coverage variation in the SMRT reads fits a Poisson model well as would be expected for unbiased shotgun sequencing (Supplementary Figure 3). Because of the relative tightness of this distribution, appreciable changes in coverage due to copy-number variation (CNVs) can be detected at low levels of coverage (<20x). Supplementary Figure 3 shows an investigation of this question, where the observed read coverage for the H1 strain has been down-sampled by randomly removing aligned reads. We can see the maintenance of the gross coverage variation at lower levels of coverage

(Supplementary Figure 4). By 12X coverage, the core CNV pattern had already been established.

An interesting aspect of Figure 1 is that there are copy-number variants preserved across all five genomes (for example near position 760K on the large chromosome). Inspection of these regions finds that all of the amplifications maintained across all five strains, except the copy-number variation at the TLC mobile element, are at rRNA operons. This is not unexpected since the elucidation of the correct number and placement of rRNA copies in a genome is a challenging problem, and bacterial assemblies can often possess collapsed repeats at rRNA regions[6]. Better resolution of the rRNA structure in these *V. cholerae* genomes should benefit from the longer readlengths and higher throughputs available with single molecule, real-time sequencing.

DNA Variant Calling

Variants versus the N16961 reference were identified by matching the consensus calling results described above to the official reference calls. Since most of the strains were sequenced to reasonably high coverage, we controlled our false-positive rate by requiring that the depth of coverage be 20x or higher for each variant call. Analysis of the variant patterns suggested that G and C deletions were systematically higher than other deletion variants (enrichment of 2.9±0.6X, bootstrap estimate of the median). Inspection of the underlying reads suggested an over-deletion of C and G bases in the raw basecalls, and C and G deletions were subsequently excluded from the consensus-level analysis. The raw data for the two datasets described here are available in Supplementary Table 5. The set of full variant calls across the canonical reference sequence permits a deeper inspection of conserved variation between the five strains we sequenced, as described in the main text.

Reconstruction of Phylogenetic Trees

Previously described single nucleotide polymorphism information from 78 7th pandemic and 3 pre-7th pandemic *V. cholerae* strains were assembled for our phylogenetic analysis[7]. Primer sequences for these 30 SNPS were aligned to N16961 to obtain updated genomic coordinates for each SNP. Nucleotides at these sites were determined for the 5 strains using a simple plurality consensus procedure. Specifically, long reads were aligned to a modified reference sequence for N16961 with the bases at each SNP site masked with an "N" to avoid ascertainment bias. All sequencing events at each reference position were tabulated and the modal event was chosen. Ties were resolved by choosing randomly among all maximally occurring events. The resulting variant calls, along with the previously described 81 strain-specific calls[7] (Supplementary Table 6), were then used to construct a maximum parsimony tree with the MEGA software package[8].

A set of orthologous genes from a previously described set of 23 pandemic *V. cholerae* strains was assembled to reconstruct phylogenetic relationships using genome-wide SNP variation[9]. A gene was considered an ortholog if: (1) the gene was shared among all of the strains at greater than 70% identity; (2) the gene was not labeled as "hypothetical protein"; and (3) the ortholog was a unique match to an ortholog in all other strains. We also excluded orthologs that overlapped putative errors in the original N16961 reference previously determined[10]. This produced a set of 1,588 orthologs comprising 1,796,407 base pairs of N16961 sequence (Supplementary Table 7). For each of the 5 strains we sequenced, we aligned the reads to N16961. Across all 5 strains and 1,588 orthologs, plurality consensus, as described above, was used to determine the most likely sequence. Consensus calls were masked with an "N" if there was (1) less than 10x coverage at that position or (2) a called insertion or deletion at that location. Next we used clustalw[11] to construct multiple sequence alignments for the

previously described 23 *V. cholerae* strains[9] combined with our 5 experimental strains. The resulting multiple sequence alignments were then concatenated together and a phylogenetic tree was constructed using the neighbor joining algorithm (Kimura 2-parameter model).

Characterization of VSP-2, SXT, and Super Integron Elements

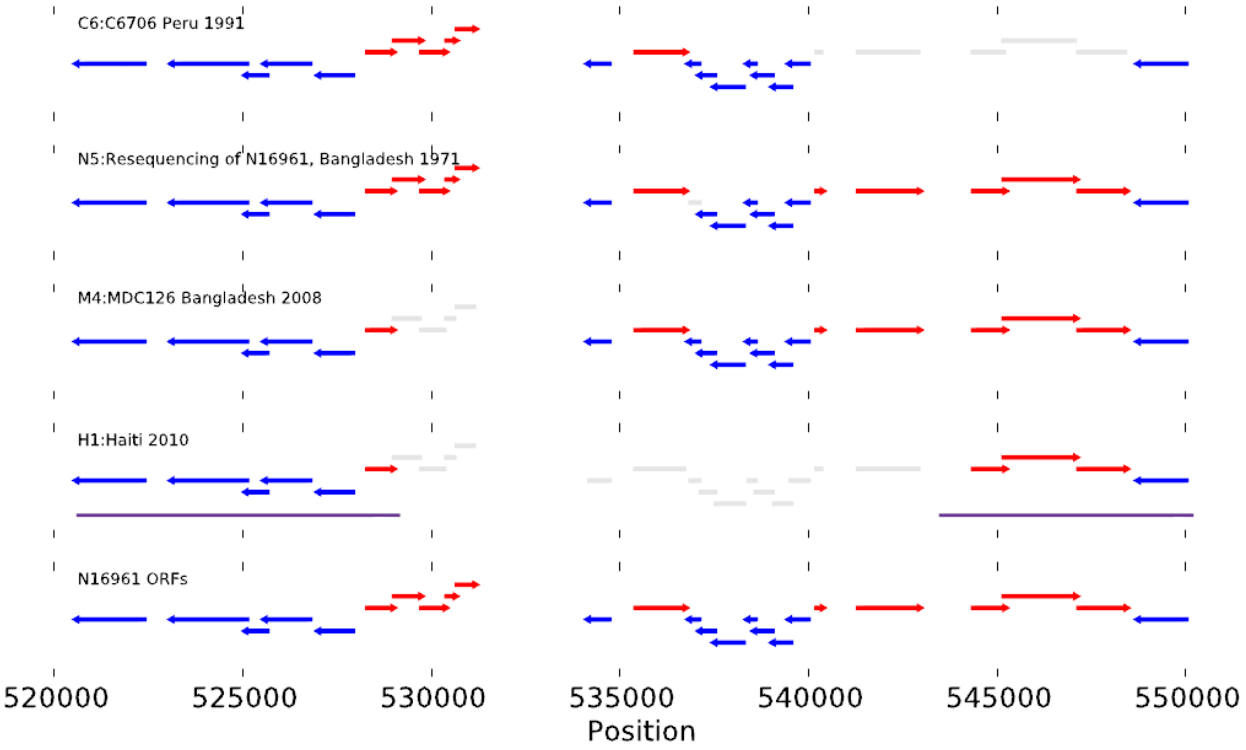
We performed a detailed analysis using sequencing coverage to identify missing segments across the super integron (SI) region and the gene islands GI-1 to GI-12, VSP-1, VSP-2, VPI-1, VPI-2, SXT, CTX and TCL[9]. We obtained uniformity of coverage from the H1, H2, M4, C6, and N5 genome sequences for most of the GIs with a few exceptions: VSP-2, SXT and the super-intergron (SI) region. The reference sequences of the VSP-2 and SI regions are identified within the N16961 reference sequence (The accession numbers for these two regions are VSP-2: NC_002505.1, base 521,036 to 550,466, Super Integron: NC_002506.1, base 350,000 to 420,000.) Similarly, the reference sequence of the SXT_MJ-1236 region was identified from the MJ-1236 reference sequence (Accession: CP001485.1, base 2960193 to 3065178), given SXT is deleted in N16961. The sequence coverage of these regions was assessed in all of the strains, and an ORF was called "missing" in a given strain if the average coverage over the region of the ORF was below 4 standard deviations from the mean coverage of the region containing the ORF.

Supplementary References

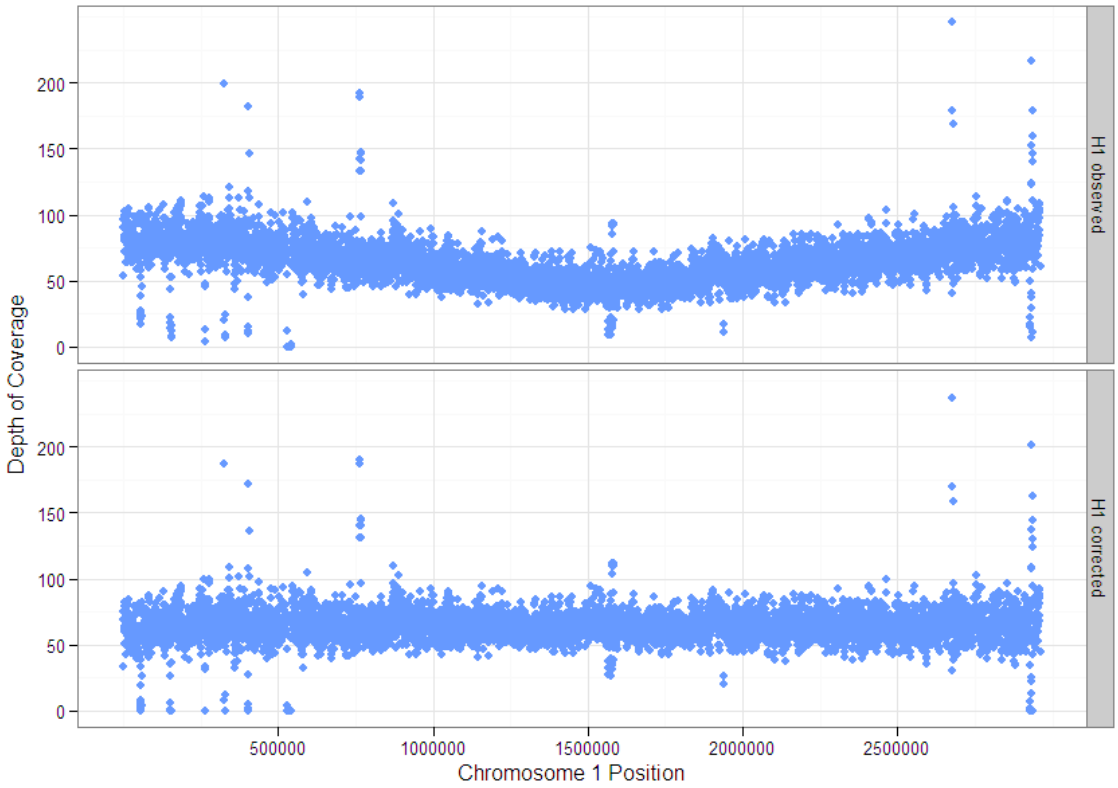
1. Travers KJ, Chin CS, Rank DR, Eid JS, Turner SW. A flexible and efficient template format for circular consensus sequencing and SNP detection. Nucleic Acids Res;38:e159.
2. Korlach J, Bjornson KP, Chaudhuri BP, et al. Real-time DNA sequencing from single polymerase molecules. Methods Enzymol;472:431-55.
3. Korlach J, Marks PJ, Cicero RL, et al. Selective aluminum passivation for targeted immobilization of single DNA polymerase molecules in zero-mode waveguide nanostructures. Proc Natl Acad Sci U S A 2008;105:1176-81.
4. Heidelberg JF, Eisen JA, Nelson WC, et al. DNA sequence of both chromosomes of the cholera pathogen Vibrio cholerae. Nature 2000;406:477-83.

5. Srivatsan A, Han Y, Peng J, et al. High-precision, whole-genome sequencing of laboratory strains facilitates genetic studies. PLoS Genet 2008;4:e1000139.
6. Phillippy AM, Schatz MC, Pop M. Genome assembly forensics: finding the elusive mis-assembly. Genome Biol 2008;9:R55.
7. Lam C, Octavia S, Reeves P, Wang L, Lan R. Evolution of seventh cholera pandemic and origin of 1991 epidemic, Latin America. Emerg Infect Dis;16:1130-2.
8. Tamura K, Dudley J, Nei M, Kumar S. MEGA4: Molecular Evolutionary Genetics Analysis (MEGA) software version 4.0. Mol Biol Evol 2007;24:1596-9.
9. Chun J, Grim CJ, Hasan NA, et al. Comparative genomics reveals mechanism for short-term and long-term clonal transitions in pandemic Vibrio cholerae. Proc Natl Acad Sci U S A 2009;106:15442-7.
10. Davis BM, Waldor MK. High-throughput sequencing reveals suppressors of Vibrio cholerae rpoE mutations: one fewer porin is enough. Nucleic Acids Res 2009;37:5757-67.
11. Thompson JD, Higgins DG, Gibson TJ. CLUSTAL W: improving the sensitivity of progressive multiple sequence alignment through sequence weighting, position-specific gap penalties and weight matrix choice. Nucleic Acids Res 1994;22:4673-80.

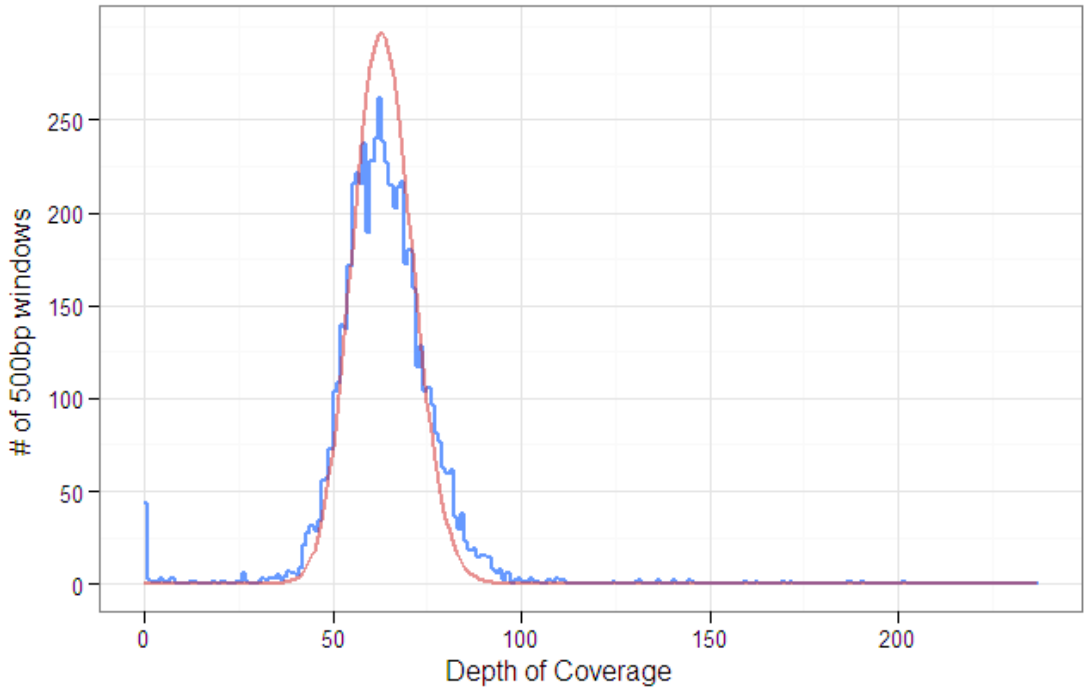
Supplementary Figures



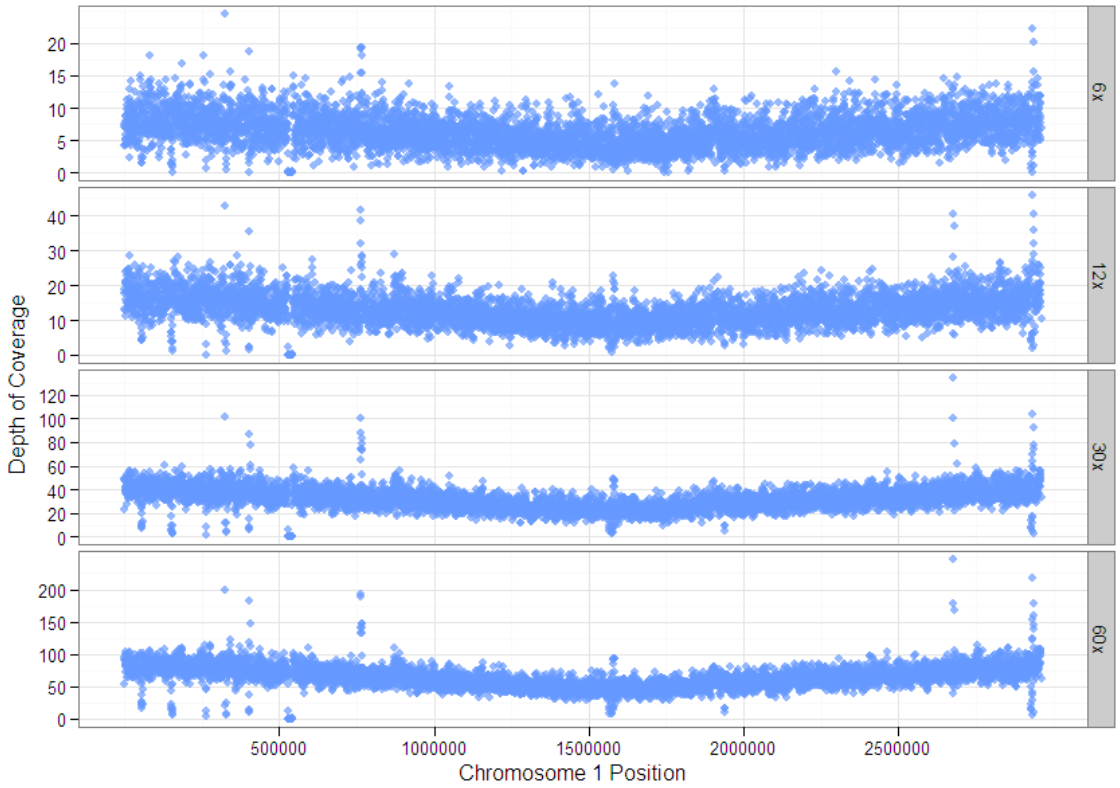
Supplementary Figure 1. Gene map of the VSP-2 region in the C6, N5, M4, and H1 *V. cholerae* strains. Representations of the coverage with respect to ORFs in this region are shown. ORFs depicted in red are mapped to the positive strand, blue are mapped to the negative strand, and grey indicates the ORF was supported by no reads or a very low number reads for the indicated sample. Coverages for H1 and H2 were identical over all regions, so only H1 is shown in the figure. Purple color bar below the H1 plot indicates the CIRS101 genomic region to which the reference sequence for the indicated element maps. Gaps indicate segments in the reference that are missing from CIRS101. Relative to the N16961 reference sequence, different segments in VSP-2 were missing in H1, M4, and C6. H1 was missing base positions 529,011 to 542,098 containing 15 ORFs, and M4 and C6 were missing segments 529,011 to 543,505 (4 ORFs) and 540,216 to 548,390 (5 ORFs), respectively.



Supplementary Figure 2. a) Observed depth of coverage for aligning the sequencing reads for strain H1 to the large chromosome of N16961 (AE003852.1). b) Corrected depth of coverage after removing the linear trend induced by the origin of replication. Each point is the mean coverage for a 500bp interval centered at that position in the reference genome.



Supplementary Figure 3. Frequency histogram for the corrected depth of coverage for the large chromosome of strain H1 (Supplementary Figure 2b). The red line is a Poisson fit to the 500-bp windows between 10× and 110× depth of coverage.



Supplementary Figure 4. Observed depth of coverage trends as the average depth of coverage is increased for strain H1. Even at an average depth of coverage of 6x, some of the defining large-scale deletion and repeat patterns are observable. By 12x, the most informative coverage variation patterns are already established.

Supplementary Tables

Supplementary Table 1. PacBio *RS* sequencing statistics for the five isolates.

Strain	# of post-filter reads	# of mapped reads	Mean single-pass accuracy	Mean readlength (bp)	95th percentile readlength (bp)	Mean depth of coverage
H1	391,917	333,130	81.0%	983	2,857	60.3
H2	219,550	193,108	81.4%	903	2,820	31.9
M4	237,853	213,722	82.7%	888	2,707	37.1
N5	252,726	228,612	82.9%	773	2,297	35.7
C6	223,110	203.771	83.2%	667	1,871	28.2

Supplementary Table 2. Jaccard similarity measure for the coverage≥20 SNV calls against N16961. The Jaccard similarity measure for two sets A and B is defined as $|A \cap B|/|A \cup B|$. It is equal to 1.0 for two identical sets and 0.0 for sets with no intersecting elements. The number in parentheses is the total number of SNVs called for each strain.

Strain	H1	H2	M4	N5	C6
H1	1.00 (136)	0.79	0.46	0.12	0.05
H2		1.00 (126)	0.44	0.14	0.05
M4			1.00 (126)	0.14	0.05
N5				1.00 (21)	0.06
C6					1.00 (261)

Supplementary Table 3. Annotation of ORFs in super integron, VSP2, and SXT

Region	Reference Accession	Range	Strand	Length	Locus	Missing ORFs in	Function	RAST Subsystem
VSP2	NC_002505.1	522394..520634	-	1761	VC0489		Putative hemolysin	
VSP2	NC_002505.1	525117..523156	-	1962	VC0490		Plasmid-related protein	
VSP2	NC_002505.1	525654..525118	-	537	VC0491		hypothetical protein	
VSP2	NC_002505.1	526789..525623	-	1167	VC0492		hypothetical protein	
VSP2	NC_002505.1	527920..527045	-	876	VC0493		hypothetical protein	
VSP2	NC_002505.1	528305..528949	+	645	VC0494		hypothetical protein	
VSP2	NC_002505.1	529011..529685	+	675	VC0495	H1,M4	hypothetical protein	
VSP2	NC_002505.1	529739..530338	+	600	VC0496	H1,M4	hypothetical protein	
VSP2	NC_002505.1	530402..530602	+	201	VC0497	H1,M4	Transcriptional regulator	
VSP2	NC_002505.1	530684..531124	+	441	VC0498	H1,M4	Ribonuclease HI, Vibrio paralog	Ribonuclease H
VSP2	NC_002505.1	534722..534198	-	525	VC0502	H1	type IV pilin, putative	
VSP2	NC_002505.1	535418..536698	+	1281	VC0503	H1	Cell wall endopeptidase, family M23/M37	Glutaredoxins
VSP2	NC_002505.1	537103..536876	-	228	VC0504	H1	hypothetical protein	
VSP2	NC_002505.1	537519..537151	-	369	VC0505	H1	hypothetical protein	
VSP2	NC_002505.1	538284..537550	-	735	VC0506	H1	Transcriptional factor MdcH	
VSP2	NC_002505.1	538599..538423	-	177	VC0507	H1	hypothetical protein	
VSP2	NC_002505.1	539046..538603	-	444	VC0508	H1	hypothetical protein	
VSP2	NC_002505.1	539540..539097	-	444	VC0509	H1	hypothetical protein	
VSP2	NC_002505.1	540004..539531	-	474	VC0510	H1	DNA repair protein RadC	DNA repair, bacterial
VSP2	NC_002505.1	540216..540335	+	120	VC0511	H1,C6	hypothetical protein	
VSP2	NC_002505.1	541319..542908	+	1590	VC0512	H1,C6	Methyl-accepting chemotaxis protein	
VSP2	NC_002505.1	544362..545177	+	816	VC0513	C6	AraC-type DNA-binding domain-containing protein	
VSP2	NC_002505.1	545174..547054	+	1881	VC0514	C6	Methyl-accepting chemotaxis protein	
VSP2	NC_002505.1	547158..548390	+	1233	VC0515	C6	EAL domain protein	
VSP2	NC_002505.1	550021..548780	-	1242	VC0516		Phage integrase	
Super integron	NC_002506.1	353709..354644	+	936	VCA0366		hypothetical protein	
Super integron	NC_002506.1	354862..355884	+	1023	VCA0367		hypothetical protein	
Super integron	NC_002506.1	355817..356431	+	615	VCA0368		hypothetical protein	
Super integron	NC_002506.1	357187..356492	-	696	VCA0370		hypothetical protein	
Super integron	NC_002506.1	356866..356492	-	375	VCA0369		hypothetical protein	
Super integron	NC_002506.1	358056..357184	-	873	VCA0791		transposase OrfAB, subunit B	
Super integron	NC_002506.1	358397..358053	-	345	VCA0792		transposase OrfAB, subunit A	
Super integron	NC_002506.1	358508..358618	+	111	VCA0373		hypothetical protein	
Super integron	NC_002506.1	358749..359786	+	1038	VCA0374		hypothetical protein	
Super integron	NC_002506.1	359966..360289	+	324	VCA0375		hypothetical protein	
Super integron	NC_002506.1	360542..360937	+	396	VCA0376		hypothetical protein	
Super integron	NC_002506.1	361079..360954	-	126	VCA0377		hypothetical protein	
Super integron	NC_002506.1	361598..361993	+	396	VCA0379		hypothetical protein	
Super integron	NC_002506.1	362970..363149	+	180	VCA0381		hypothetical protein	
Super integron	NC_002506.1	363345..363770	+	426	VCA0382		acetyltransferase (putative)	
Super integron	NC_002506.1	365005..364895	-	111	VCA0383		hypothetical protein	
Super integron	NC_002506.1	365062..365157	+	96	VCA0384		hypothetical protein	
Super integron	NC_002506.1	365686..365351	-	336	VCA0385		ParE toxin protein	Toxin-antitoxin systems (other than RelB
Super integron	NC_002506.1	365929..365687	-	243	VCA0386		ParD protein (antitoxin to ParE)	Toxin-antitoxin systems (other than RelB
Super integron	NC_002506.1	366171..366680	+	510	VCA0387		toxin resistance protein	
Super integron	NC_002506.1	366737..367390	+	654	VCA0388		hypothetical protein	
Super integron	NC_002506.1	367685..367918	+	234	VCA0389		hypothetical protein	
Super integron	NC_002506.1	368195..368293	+	99	VCA0390		hypothetical protein	
Super integron	NC_002506.1	369360..369713	+	354	VCA0391		HigB toxin protein	
Super integron	NC_002506.1	369724..370041	+	318	VCA0392		HigA protein (antitoxin to HigB)	Toxin-antitoxin systems (other than RelB
Super integron	NC_002506.1	370325..370450	+	126	VCA0437	M4,Low coverage in H1	hypothetical protein	
Super integron	NC_002506.1	370413..370529	+	117	VCA0438	H1,M4	hypothetical protein	
Super integron	NC_002506.1	370629..371468	+	840	VCA0395	H1,M4	Phenazine biosynthesis protein PhzF	
Super integron	NC_002506.1	371673..372503	+	831	VCA0396	H1,M4	hypothetical protein	
Super integron	NC_002506.1	372560..373042	+	483	VCA0397	H1,M4	hypothetical protein	

Super integron	NC_002506.1	373206..373373	+	168	VCA0398	H1,M4	hypothetical protein	
Super integron	NC_002506.1	373489..374364	+	876	VCA0399	H1,M4	hypothetical protein	
Super integron	NC_002506.1	374494..374949	+	456	VCA0479	H1,M4	Histone acetyltransferase HPA2	
Super integron	NC_002506.1	375133..375546	+	414	VCA0476	H1,M4	Glyoxalase family protein	Serine-glyoxylate cycle
Super integron	NC_002506.1	375613..376131	+	519	VCA0402	H1,M4	Acetyltransferase, GNAT family	
Super integron	NC_002506.1	376324..376581	+	258	VCA0403	H1,M4	hypothetical protein	
Super integron	NC_002506.1	377038..376904	-	135	VCA0404	H1,M4	hypothetical protein	
Super integron	NC_002506.1	377315..377935	+	621	VCA0405	H1,M4	hypothetical protein	
Super integron	NC_002506.1	378083..378598	+	516	VCA0406	H1,M4	lipoprotein Blc	
Super integron	NC_002506.1	378901..379083	+	183	VCA0407	H1,M4	hypothetical protein	
Super integron	NC_002506.1	379262..379609	+	348	VCA0408	H1,M4	hypothetical protein	
Super integron	NC_002506.1	379771..380229	+	459	VCA0409	H1,M4	hypothetical protein	
Super integron	NC_002506.1	380380..380742	+	363	VCA0410	H1,M4	hypothetical protein	
Super integron	NC_002506.1	381066..380926	-	141	VCA0411	H1,M4	hypothetical protein	
Super integron	NC_002506.1	381045..381224	+	180	VCA0412	H1,M4	hypothetical protein	
Super integron	NC_002506.1	381420..382073	+	654	VCA0413	H1,M4	hypothetical protein	
Super integron	NC_002506.1	382198..382623	+	426	VCA0414	H1,M4	hypothetical protein	
Super integron	NC_002506.1	382786..383145	+	360	VCA0415	H1,M4	Glyoxalase family protein	Serine-glyoxylate cycle
Super integron	NC_002506.1	383328..383651	+	324	VCA0416	H1,M4	hypothetical protein	
Super integron	NC_002506.1	383932..384468	+	537	VCA0417	Low coverage in H1,M4	acetyltransferase, putative	
Super integron	NC_002506.1	385229..385411	+	183	VCA0418	H1,M4	hypothetical protein	
Super integron	NC_002506.1	385530..386315	+	786	VCA0419	H1,M4	hypothetical protein	
Super integron	NC_002506.1	386384..386779	+	396	VCA0420	H1,M4	hypothetical protein	
Super integron	NC_002506.1	387025..387450	+	426	VCA0421	H1,M4	hypothetical protein	
Super integron	NC_002506.1	387652..387945	+	294	VCA0422	H1,M4	Antitoxin of toxin-antitoxin stability system	
Super integron	NC_002506.1	387942..388301	+	360	VCA0423	H1,M4	Plasmid stabilization system protein	
Super integron	NC_002506.1	388283..388729	+	447	VCA0424	H1,M4	hypothetical protein	
Super integron	NC_002506.1	388985..389410	+	426	VCA0425	H1,M4	hypothetical protein	
Super integron	NC_002506.1	389588..389821	+	234	VCA0426	H1,M4	hypothetical protein	
Super integron	NC_002506.1	389955..389797	-	159	VCA0427	H1,M4	hypothetical protein	
Super integron	NC_002506.1	390185..390610	+	426	VCA0428	H1,M4	hypothetical protein	
Super integron	NC_002506.1	391148..391044	-	105	VCA0429	H1,M4	hypothetical protein	
Super integron	NC_002506.1	391166..391264	+	99	VCA0430	H1,M4	hypothetical protein	
Super integron	NC_002506.1	391358..391753	+	396	VCA0431	H1,M4	hypothetical protein	
Super integron	NC_002506.1	391927..392361	+	435	VCA0432	H1,M4	Lactoylglutathione lyase and related lyases	
Super integron	NC_002506.1	392515..393372	+	858	VCA0433	H1,M4	hypothetical protein	
Super integron	NC_002506.1	393683..393549	-	135	VCA0434	H1,M4	hypothetical protein	
Super integron	NC_002506.1	393668..393847	+	180	VCA0435	H1,M4	hypothetical protein	
Super integron	NC_002506.1	394041..394556	+	516	VCA0436	H1,M4	acetyltransferase, putative	
Super integron	NC_002506.1	394853..394978	+	126	VCA0437	M4,Low coverage in H1	hypothetical protein	
Super integron	NC_002506.1	394941..395057	+	117	VCA0438		hypothetical protein	
Super integron	NC_002506.1	395245..396249	+	1005	VCA0439		Microcin immunity protein MccF	
Super integron	NC_002506.1	396402..396848	+	447	VCA0440		putative membrane protein	
Super integron	NC_002506.1	396968..397897	+	930	VCA0441		hypothetical protein	
Super integron	NC_002506.1	398032..398508	+	477	VCA0442		putative acetyltransferase	
Super integron	NC_002506.1	398645..399160	+	516	VCA0443		lipoprotein Blc	
Super integron	NC_002506.1	399586..399296	-	291	VCA0444		relE protein	
Super integron	NC_002506.1	399824..399576	-	249	VCA0445		Stability protein StbD	
Super integron	NC_002506.1	400089..400280	+	192	VCA0446		haemagglutinin	
Super integron	NC_002506.1	400356..401048	+	693	VCA0447		haemagglutinin associated protein	
Super integron	NC_002506.1	401320..401745	+	426	VCA0448		hypothetical protein	
Super integron	NC_002506.1	402499..403029	+	531	VCA0450		DNA for RVC repeated sequence	
Super integron	NC_002506.1	403167..403667	+	501	VCA0451		DNA for RVC repeated sequence	
Super integron	NC_002506.1	403793..403903	+	111	VCA0452		hypothetical protein	
Super integron	NC_002506.1	404784..404320	-	465	VCA0453		hypothetical protein	
Super integron	NC_002506.1	406385..406981	+	597	VCA0455		hypothetical protein	
Super integron	NC_002506.1	407406..407272	-	135	VCA0456		hypothetical protein	
Super integron	NC_002506.1	407778..408392	+	615	VCA0457		hypothetical protein	
Super integron	NC_002506.1	408539..409396	+	858	VCA0458		hypothetical protein	

Super integron	NC_002506.1	409543..410103	+	561	VCA0459	hypothetical protein	
Super integron	NC_002506.1	410246..410593	+	348	VCA0460	hypothetical protein	
Super integron	NC_002506.1	410724..410849	+	126	VCA0461	hypothetical protein	
Super integron	NC_002506.1	411089..410985	-	105	VCA0462	hypothetical protein	
Super integron	NC_002506.1	412362..412760	+	399	VCA0463	biphenyl-2,3-diol 1,2-dioxygenase III-rela	Biphenyl Degradation
Super integron	NC_002506.1	412827..413204	+	378	VCA0464	hypothetical protein	
Super integron	NC_002506.1	413348..413752	+	405	VCA0465	hypothetical protein	
Super integron	NC_002506.1	414287..414129	-	159	VCA0466	hypothetical protein	
Super integron	NC_002506.1	414796..414638	-	159	VCA0467	hypothetical protein	
Super integron	NC_002506.1	414949..415281	+	333	VCA0468	Cytotoxic translational repressor of toxin-antitoxin stability system	
Super integron	NC_002506.1	415268..415582	+	315	VCA0469	hypothetical protein	
Super integron	NC_002506.1	415719..416153	+	435	VCA0470	Acetyltransferase	
Super integron	NC_002506.1	416321..416476	+	156	VCA0471	hypothetical protein	
Super integron	NC_002506.1	417581..416601	-	981	VCA0472	IS5 transposase	
Super integron	NC_002506.1	417604..417921	+	318	VCA0473	Acetyltransferase	
Super integron	NC_002506.1	418092..418784	+	693	VCA0474	putative acetyltransferase	
Super integron	NC_002506.1	418784..419185	+	402	VCA0475	doc protein	
Super integron	NC_002506.1	419373..419786	+	414	VCA0476	Glyoxalase family protein	Serine-glyoxylate cycle
Super integron	NC_002506.1	419979..420251	+	273	VCA0477	Stability protein StbD	
Super integron	NC_002506.1	420238..420528	+	291	VCA0478	Stability protein StbE	
Super integron	NC_002506.1	420656..421111	+	456	VCA0479	Histone acetyltransferase HPA2	
Super integron	NC_002506.1	421433..421585	+	153	VCA0480	hypothetical protein	
Super integron	NC_002506.1	422284..421787	-	498	VCA0481	GCN5-related N-acetyltransferase; Histo	Phosphate metabolism
Super integron	NC_002506.1	422553..422281	-	273	VCA0482	hypothetical protein	
Super integron	NC_002506.1	422784..423452	+	669	VCA0483	hypothetical protein	
Super integron	NC_002506.1	423604..423891	+	288	VCA0484	hypothetical protein	
Super integron	NC_002506.1	424032..424403	+	372	VCA0485	mazG-related protein	
Super integron	NC_002506.1	424470..424895	+	426	VCA0486	hypothetical protein	
Super integron	NC_002506.1	424892..425425	+	534	VCA0487	GCN5-related N-acetyltransferase; Histo	Phosphate metabolism
Super integron	NC_002506.1	425627..425884	+	258	VCA0488	Antitoxin of toxin-antitoxin stability system	
Super integron	NC_002506.1	425872..426174	+	303	VCA0489	Plasmid stabilization system protein	
Super integron	NC_002506.1	426312..427325	+	1014	VCA0490	Lipase, GDXG family	
Super integron	NC_002506.1	427398..427871	+	474	VCA0491	hypothetical protein	
Super integron	NC_002506.1	428335..428772	+	438	VCA0493	IS1004 transposase	
Super integron	NC_002506.1	428878..429054	+	177	VCA0494	hypothetical protein, interruption	
Super integron	NC_002506.1	429229..430101	+	873	VCA0495	No significant database matches	
Super integron	NC_002506.1	430170..430850	+	681	VCA0496	Maleylacetoacetate isomerase (EC 5.2.1	Homogentisate pathway of aromatic com
Super integron	NC_002506.1	431036..431311	+	276	VCA0497	hypothetical protein	
Super integron	NC_002506.1	431305..431826	+	522	VCA0498	hypothetical protein	
Super integron	NC_002506.1	432122..431958	-	165	VCA0499	hypothetical protein	
Super integron	NC_002506.1	432220..432119	-	102	VCA0500	hypothetical protein	
Super integron	NC_002506.1	432501..432896	+	396	VCA0501	hypothetical protein	
Super integron	NC_002506.1	433313..433035	-	279	VCA0503	Plasmid stabilization system protein	
Super integron	NC_002506.1	433678..433310	-	369	VCA0504	relB protein	
Super integron	NC_002506.1	433710..434303	+	594	VCA0505	acetyltransferase, putative	
Super integron	NC_002506.1	434487..434900	+	414	VCA0506	Glyoxalase family protein	Serine-glyoxylate cycle
VSP2	NC_002505.1	70319..71560	+	1242	VC0516	Phage integrase	- none -
VSP2	NC_002505.1	73182..71950	-	1233	VC0515	Predicted signal transduction protein	Motility of Campylobacter
VSP2	NC_002505.1	75166..73286	-	1881	VC0514	Methyl-accepting chemotaxis protein	- none -
VSP2	NC_002505.1	75978..75163	-	816	VC0513	Transcriptional regulator, AraC/XylS fam	- none -
VSP2	NC_002505.1	79021..77432	-	1590	VC0512	COG0840: Methyl-accepting chemotaxis	- none -
VSP2	NC_002505.1	80335..80808	+	474	VC0510	DNA repair protein RadC	DNA repair, bacterial
VSP2	NC_002505.1	80799..81242	+	444	VC0509	hypothetical protein	- none -
VSP2	NC_002505.1	81293..81736	+	444	VC0508	hypothetical protein	- none -
VSP2	NC_002505.1	81740..81916	+	177	VC0507	hypothetical protein	- none -
VSP2	NC_002505.1	82055..82789	+	735	VC0506	hypothetical protein	- none -
VSP2	NC_002505.1	82820..83188	+	369	VC0505	hypothetical protein	- none -
VSP2	NC_002505.1	83236..83463	+	228	VC0504	hypothetical protein	- none -
VSP2	NC_002505.1	84921..83641	-	1281	VC0503	Cell wall endopeptidase, family M23/M37	Glutaredoxins

VSP2	NC_002505.1	89655..89215	-	441	VC0498		Ribonuclease HI, Vibrio paralog	Ribonuclease H
VSP2	NC_002505.1	89937..89737	-	201	VC0497		COG3311: Predicted transcriptional regu	- none -
VSP2	NC_002505.1	90600..90001	-	600	VC0496		hypothetical protein	- none -
VSP2	NC_002505.1	91328..90654	-	675	VC0495		hypothetical protein	- none -
VSP2	NC_002505.1	92419..93294	+	876	VC0493		hypothetical protein	- none -
VSP2	NC_002505.1	93550..94716	+	1167	VC0492		hypothetical protein	- none -
VSP2	NC_002505.1	95222..97183	+	1962	VC0490		hypothetical protein	- none -
VSP2	NC_002505.1	97945..99705	+	1761	VC0489		Putative hemolysin	- none -
SXT	CP001485.1	2960840..2960193	-	648	VCD_003661	C6,N5	putative prophage repressor	- none -
SXT	CP001485.1	2960958..2961209	+	252	VCD_003662	C6,N5	COG4197: Uncharacterized protein cons	- none -
SXT	CP001485.1	2961265..2962134	+	870	VCD_003663	C6,N5	hypothetical protein	- none -
SXT	CP001485.1	2962055..2962783	+	729	VCD_003664	C6,N5	hypothetical protein	- none -
SXT	CP001485.1	2962770..2963318	+	549	VCD_003665	C6,N5	Soluble lytic murein transglycosylase an	- none -
SXT	CP001485.1	2963315..2963614	+	300	VCD_003666	C6,N5	Transcriptional activator	- none -
SXT	CP001485.1	2968235..2964666	-	3570	VCD_003667	C6,N5	IncF plasmid conjugative transfer protein	- none -
SXT	CP001485.1	2969627..2968239	-	1389	VCD_003668	C6,N5	IncF plasmid conjugative transfer pilus a	- none -
SXT	CP001485.1	2970574..2969630	-	945	VCD_003669	C6,N5	IncF plasmid conjugative transfer pilus a	- none -
SXT	CP001485.1	2971790..2970831	-	960	VCD_003670	C6,N5	integron integrase	- none -
SXT	CP001485.1	2972078..2972551	+	474	VCD_003671	C6,N5	Dihydrofolate reductase	- none -
SXT	CP001485.1	2973754..2974122	+	369	VCD_003672	C6,N5	hypothetical protein	- none -
SXT	CP001485.1	2974222..2974923	+	702	VCD_003673	C6,N5	hypothetical protein	- none -
SXT	CP001485.1	2976303..2975596	-	708	VCD_003674	C6,N5	hypothetical protein	- none -
SXT	CP001485.1	2977466..2976393	-	1074	VCD_003675	C6,N5	putative primase	- none -
SXT	CP001485.1	2977898..2977557	-	342	VCD_003676	C6,N5	hypothetical protein	- none -
SXT	CP001485.1	2978395..2977898	-	498	VCD_003677	C6,N5	DNA repair protein RadC	DNA repair, bacterial
SXT	CP001485.1	2980135..2978480	-	1656	VCD_003678	C6,N5	hypothetical protein	- none -
SXT	CP001485.1	2980645..2980205	-	441	VCD_003679	C6,N5	hypothetical protein	- none -
SXT	CP001485.1	2981660..2980707	-	954	VCD_003680	C6,N5	Cobalamine biosynthesis protein	- none -
SXT	CP001485.1	2982529..2981759	-	771	VCD_003681	C6,N5	hypothetical protein	- none -
SXT	CP001485.1	2983602..2982526	-	1077	VCD_003682	C6,N5	ATPase associated with various cellular	- none -
SXT	CP001485.1	2984711..2983695	-	1017	VCD_003683	C6,N5	DNA recombination protein	- none -
SXT	CP001485.1	2984915..2984772	-	144	VCD_003684	C6,N5	hypothetical protein	- none -
SXT	CP001485.1	2985815..2984997	-	819	VCD_003685	C6,N5	Recombination protein BET	- none -
SXT	CP001485.1	2986314..2985895	-	420	VCD_003686	C6,N5	single-strand binding protein	- none -
SXT	CP001485.1	2986668..2986330	-	339	VCD_003687	C6,N5	hypothetical protein	- none -
SXT	CP001485.1	2987024..2987626	+	603	VCD_003688	C6,N5	unknown	- none -
SXT	CP001485.1	2988379..2987717	-	663	VCD_003689	H1,C6,N5	hypothetical protein	- none -
SXT	CP001485.1	2988883..2988410	-	474	VCD_003690	H1,C6,N5	hypothetical protein	- none -
SXT	CP001485.1	2992615..2988974	-	3642	VCD_003691	C6,N5	IncF plasmid conjugative transfer protein	- none -
SXT	CP001485.1	2993703..2992669	-	1035	VCD_003692	C6,N5	IncF plasmid conjugative transfer pilus a	- none -
SXT	CP001485.1	2994844..2993681	-	1164	VCD_003693	C6,N5	hypothetical protein	- none -
SXT	CP001485.1	2995328..2994816	-	513	VCD_003694	C6,N5	COG0681: Signal peptidase I	- none -
SXT	CP001485.1	2995659..2995312	-	348	VCD_003695	C6,N5	hypothetical protein	- none -
SXT	CP001485.1	2998069..2995652	-	2418	VCD_003696	C6,N5	IncF plasmid conjugative transfer pilus a	- none -
SXT	CP001485.1	2998743..2998051	-	693	VCD_003697	C6,N5	Thiol:disulfide interchange protein DsbC	- none -
SXT	CP001485.1	3000333..2998888	-	1446	VCD_003698	H1,M4,C6,N5	Type 4 fimbriae expression regulatory pr	- none -
SXT	CP001485.1	3001871..3000336	-	1536	VCD_003699	H1,M4,C6,N5	hypothetical protein	- none -
SXT	CP001485.1	3002990..3001881	-	1110	VCD_003700	H1,M4,C6,N5	conserved hypothetical protein	- none -
SXT	CP001485.1	3005716..3002987	-	2730	VCD_003701	H1,M4,C6,N5	putative dna-binding protein smubp-2	- none -
SXT	CP001485.1	3007231..3006281	-	951	VCD_003702	C6,N5	Ync	- none -
SXT	CP001485.1	3008045..3007212	-	834	VCD_003703	C6,N5	Ynd	- none -
SXT	CP001485.1	3008609..3008223	-	387	VCD_003704	C6,N5	TraA	- none -
SXT	CP001485.1	3009256..3008606	-	651	VCD_003705	C6,N5	Conjugative transfer protein TraV	- none -
SXT	CP001485.1	3010545..3009253	-	1293	VCD_003706	C6,N5	IncF plasmid conjugative transfer pilus a	- none -
SXT	CP001485.1	3011444..3010542	-	903	VCD_003707	C6,N5	IncF plasmid conjugative transfer pilus a	- none -
SXT	CP001485.1	3012051..3011425	-	627	VCD_003708	C6,N5	IncF plasmid conjugative transfer pilus a	- none -
SXT	CP001485.1	3012335..3012048	-	288	VCD_003709	C6,N5	IncF plasmid conjugative transfer pilus a	- none -
SXT	CP001485.1	3012585..3013205	+	621	VCD_003710	C6,N5	hypothetical protein	- none -

SXT	CP001485.1	3013876..3013232	-	645	VCD_003711	C6,N5	Conjugative transfer protein s043	-	none -
SXT	CP001485.1	3014390..3013854	-	537	VCD_003712	C6,N5	hypothetical protein	-	none -
SXT	CP001485.1	3016244..3014424	-	1821	VCD_003713	C6,N5	Conjugative transfer protein TraD	-	none -
SXT	CP001485.1	3018443..3016293	-	2151	VCD_003714	C6,N5	TraI	-	none -
SXT	CP001485.1	3021249..3018598	-	2652	VCD_003715	H1,M4,C6,N5	COG0419: ATPase involved in DNA repa	-	none -
SXT	CP001485.1	3023368..3021293	-	2076	VCD_003716	H1,M4,C6,N5	putative ATP-dependent Lon protease	-	none -
SXT	CP001485.1	3026042..3023385	-	2658	VCD_003717	H1,M4,C6,N5	putative cytoplasmic protein	-	none -
SXT	CP001485.1	3029668..3026042	-	3627	VCD_003718	H1,M4,C6,N5	putative type II restriction enzyme methy	-	none -
SXT	CP001485.1	3031447..3029684	-	1764	VCD_003719	H1,M4,C6,N5	hypothetical protein	-	none -
SXT	CP001485.1	3035141..3031464	-	3678	VCD_003720	H1,M4,C6,N5	hypothetical protein	-	none -
SXT	CP001485.1	3035753..3035160	-	594	VCD_003721	H1,M4,C6,N5	putative cytoplasmic protein	-	none -
SXT	CP001485.1	3036340..3035741	-	600	VCD_003722	H1,M4,C6,N5	hypothetical protein	-	none -
SXT	CP001485.1	3037276..3036350	-	927	VCD_003723	H1,M4,C6,N5	hypothetical protein	-	none -
SXT	CP001485.1	3037659..3037345	-	315	VCD_003724	C6,N5	hypothetical protein	-	none -
SXT	CP001485.1	3038652..3037747	-	906	VCD_003725	C6,N5	COG0847: DNA polymerase III, epsilon s	-	none -
SXT	CP001485.1	3039291..3039740	+	450	VCD_003726	C6,N5	Error-prone repair protein UmuD (EC 3.4	DNA repair, bacterial	
SXT	CP001485.1	3039709..3040017	+	309	VCD_003727	C6,N5	Error-prone repair protein UmuC	DNA repair, bacterial	
SXT	CP001485.1	3041801..3040602	-	1200	VCD_003728	C6,N5	hypothetical protein	-	none -
SXT	CP001485.1	3041840..3041947	+	108	VCD_003729	C6,N5	hypothetical protein	-	none -
SXT	CP001485.1	3042446..3043261	+	816	VCD_003730	C6,N5	Dihydropteroate synthase (EC 2.5.1.15)	Folate Biosynthesis	
SXT	CP001485.1	3043322..3044125	+	804	VCD_003731	C6,N5	Aminoglycoside 3'-phosphotransferase (I	-	none -
SXT	CP001485.1	3044116..3044961	+	846	VCD_003732	C6,N5	Aminoglycoside/hydroxyurea antibiotic re	-	none -
SXT	CP001485.1	3045239..3045385	+	147	VCD_003733	H1,M4,C6,N5	hypothetical protein	-	none -
SXT	CP001485.1	3046655..3045633	-	1023	VCD_003734	H1,M4,C6,N5	Cobalt-zinc-cadmium resistance protein	Cobalt-zinc-cadmium resistance	
SXT	CP001485.1	3047173..3046790	-	384	VCD_003735	H1,M4,C6,N5	putative nrbE-like protein	-	none -
SXT	CP001485.1	3047352..3047546	+	195	VCD_003736	H1,M4,C6,N5	hypothetical protein	-	none -
SXT	CP001485.1	3048361..3047684	-	678	VCD_003737	H1,M4,C6,N5	tetracycline repressor protein	-	none -
SXT	CP001485.1	3048365..3049639	+	1275	VCD_003738	H1,M4,C6,N5	TetA	-	none -
SXT	CP001485.1	3050196..3049891	-	306	VCD_003739	M4,C6,N5	Transcriptional regulator, LysR family	-	none -
SXT	CP001485.1	3051438..3050224	-	1215	VCD_003740	M4,C6,N5	COG0477: Permeases of the major facili	-	none -
SXT	CP001485.1	3052539..3051655	-	885	VCD_003741	M4,C6,N5	Type IV secretory pathway, VirD2 compc	-	none -
SXT	CP001485.1	3054063..3052570	-	1494	VCD_003742	C6,N5	IS, phage, Tn; Transposon-related functi	-	none -
SXT	CP001485.1	3056619..3054481	-	2139	VCD_003743	C6,N5	Transposase	-	none -
SXT	CP001485.1	3057324..3057431	+	108	VCD_003744	C6,N5	hypothetical protein	-	none -
SXT	CP001485.1	3058519..3059622	+	1104	VCD_003745	C6,N5	Error-prone repair protein UmuC	DNA repair, bacterial	
SXT	CP001485.1	3060076..3059633	-	444	VCD_003746	C6,N5	hypothetical protein	-	none -
SXT	CP001485.1	3060233..3060099	-	135	VCD_003747	C6,N5	hypothetical protein	-	none -
SXT	CP001485.1	3060541..3061515	+	975	VCD_003748	C6,N5	Rod shape determination protein	-	none -
SXT	CP001485.1	3061512..3061787	+	276	VCD_003749	C6,N5	hypothetical protein	-	none -
SXT	CP001485.1	3061789..3063030	+	1242	VCD_003750	C6,N5	Integrase	-	none -
SXT	CP001485.1	3065178..3063160	-	2019	VCD_003751	C6,N5	putative DNA mismatch repair protein	-	none -

Supplementary Table 4. Coverage statistics by strain, with sequence id given in column 1, sequence position in column 2, average number of observed reads in H1, H2, M4, N5, and C6 in columns 3-7, and normalized counts for the same strains in columns 8-12.

seqid	pos	H1obs	H2obs	M4obs	N5obs	C6obs	H1norm	H2norm	M4norm	N5norm	C6norm
AE003852	250	54.24	38.784	40.718	45.808	33.378	-2.90921	-0.88615	-1.52908	-0.50547	-1.67433
AE003852	750	90.22	53.402	56.01	48.986	39.666	0.532651	1.13981	0.470572	-0.06483	-0.64478
AE003852	1250	96.024	54.026	36.734	44.946	47.772	1.088861	1.227194	-2.04764	-0.62272	0.682057
AE003852	1750	84.666	44.694	44.73	44.21	44.446	0.003912	-0.06462	-1.00154	-0.72353	0.139515
AE003852	2250	82.874	50.116	61.26	53.96	50	-0.16626	0.687428	1.159917	0.626269	1.049041
AE003852	2750	80.23	61.242	58.632	54.508	64.962	-0.41792	2.229645	0.817516	0.70308	3.496976
AE003852	3250	89.826	61.788	51.636	48.504	53.082	0.500914	2.306224	-0.09576	-0.1265	1.555673
AE003852	3750	99.79	53.236	51.752	44.894	43.77	1.454934	1.122464	-0.07954	-0.6249	0.034293
AE003852	4250	103.056	47.638	50.326	42.708	48.524	1.768442	0.347919	-0.26484	-0.9263	0.813002
AE003852	4750	82.404	54.952	58.016	52.28	40.86	-0.20527	1.362063	0.741269	0.398873	-0.4389
AE003852	5250	71.6	59.9	74.202	55.018	44.806	-1.23724	2.048448	2.857765	0.778645	0.207689
AE003852	5750	91.102	51.178	57.938	54.178	48.764	0.628875	0.841138	0.733206	0.663443	0.856236
AE003852	6250	83.004	51.416	51.262	47.808	47.38	-0.14433	0.875049	-0.13825	-0.21677	0.631252
AE003852	6750	95.904	35.476	58.992	47.26	37.494	1.090454	-1.33216	0.87309	-0.29158	-0.98399
AE003852	7250	82.04	31.75	70.028	46.56	40.782	-0.23414	-1.84738	2.316505	-0.38741	-0.445
AE003852	7750	63.528	29.114	57.806	44.048	37.986	-2.00321	-2.2116	0.720216	-0.73391	-0.90088
AE003852	8250	84.472	28.524	59.032	44.342	40.128	0.000804	-2.29239	0.881514	-0.69224	-0.54929
AE003852	8750	96.914	42.666	53.466	46.166	39.986	1.19179	-0.33237	0.155131	-0.43891	-0.57118
AE003852	9250	100.184	44.578	46.218	43.946	31.888	1.50568	-0.06656	-0.79108	-0.74502	-1.89404
AE003852	9750	94.62	50.12	49.588	60.034	30.638	0.974796	0.702107	-0.34957	1.48157	-2.09711
AE003852	10250	80.894	45.862	46.016	52.536	33.856	-0.3366	0.113191	-0.81535	0.445313	-1.56957
AE003852	10750	77.528	48.56	45.152	55.64	31.8	-0.65729	0.487885	-0.92721	0.875717	-1.90444
AE003852	11250	76.89	59.94	55.354	66.716	39.222	-0.71712	2.065289	0.40721	2.408952	-0.68946
AE003852	11750	73.112	53.47	55.74	64.826	33.94	-1.07721	1.169947	0.458724	2.148496	-1.55185
AE003852	12250	84.466	50.314	55.004	41.678	43.524	0.009735	0.73369	0.363598	-1.05275	0.01667
AE003852	12750	91.482	57.31	48.406	57.208	50.458	0.681845	1.703782	-0.49766	1.096641	1.151855
AE003852	13250	69.98	42.738	49.308	58.744	40.25	-1.37315	-0.31392	-0.37871	1.31013	-0.51604
AE003852	13750	63.95	49.678	57.408	43.792	32.82	-1.9486	0.648411	0.680985	-0.7573	-1.72967
AE003852	14250	72.692	49.3	53.004	50.332	28.358	-1.11143	0.596988	0.10647	0.148435	-2.45798
AE003852	14750	81.038	47.734	54.98	45.666	39.418	-0.31214	0.380993	0.365789	-0.49605	-0.6481
AE003852	15250	87.08	51.48	46.902	49.29	45.866	0.266833	0.900865	-0.6889	0.006292	0.407614
AE003852	15750	86.036	47.354	46.344	53.452	46.082	0.168186	0.330235	-0.76076	0.583057	0.444264
AE003852	16250	104.306	49.464	43.67	42.974	43.518	1.916488	0.623474	-1.10918	-0.86545	0.026325

AE003852	16750	100.698	49.324	47.012	40.024	34.28	1.572652	0.605021	-0.67133	-1.27254	-1.48295
AE003852	17250	94.2	44.592	52.098	47.722	37.422	0.952453	-0.04956	-0.00555	-0.20661	-0.96784
AE003852	17750	90.044	44.956	57.094	55.184	42.342	0.556213	0.001809	0.648471	0.826668	-0.16199
AE003852	18250	68.224	40.936	60.394	47.922	50.672	-1.52919	-0.55414	1.08083	-0.17694	1.201475
AE003852	18750	78.352	59.98	52.99	38.654	45.904	-0.55949	2.084955	0.114229	-1.45806	0.423135
AE003852	19250	82.94	50.18	50.542	46.692	48.904	-0.11956	0.728311	-0.20465	-0.34509	0.915028
AE003852	19750	81.776	45.022	54.328	56.508	50.774	-0.22968	0.014719	0.29123	1.013837	1.222143
AE003852	20250	88.298	39.26	54.25	53.44	47.202	0.395187	-0.78254	0.282101	0.590419	0.639374
AE003852	20750	81.59	43.586	51.656	48.068	47.784	-0.24509	-0.18233	-0.05586	-0.15173	0.735873
AE003852	21250	82.484	52.3	62.588	46.398	46.31	-0.15842	1.025759	1.373967	-0.38175	0.496173
AE003852	21750	88.654	43.274	44.452	43.736	36.182	0.432794	-0.22366	-0.99525	-0.74901	-1.15864
AE003852	22250	91.044	37.3	46.368	55.762	33.656	0.662532	-1.0503	-0.74378	0.915649	-1.57037
AE003852	22750	92.762	55.782	62.708	42.504	40.804	0.828008	1.510943	1.392847	-0.91743	-0.40019
AE003852	23250	93.442	57.358	64.612	41.442	39.662	0.894223	1.730206	1.642756	-1.06335	-0.5856
AE003852	23750	76.656	51.57	52.89	45.946	39.598	-0.70979	0.929341	0.111814	-0.43927	-0.59473
AE003852	24250	79.008	32.858	58.72	52.14	36.306	-0.48369	-1.66188	0.874832	0.418598	-1.13172
AE003852	24750	82.694	36.254	55.462	43.802	38.688	-0.13002	-1.19049	0.450093	-0.73386	-0.74088
AE003852	25250	70.134	39.8	48.31	47.582	46.634	-1.32991	-0.69832	-0.48357	-0.20994	0.55979
AE003852	25750	63.97	43.136	48.614	43.164	42.142	-1.91817	-0.23525	-0.44278	-0.82012	-0.17342
AE003852	26250	64.414	51.238	49.602	38	33.906	-1.87452	0.888058	-0.31258	-1.53349	-1.51885
AE003852	26750	73.058	46.634	48.05	43.07	39.964	-1.04673	0.251211	-0.51436	-0.83112	-0.52691
AE003852	27250	81.41	44.824	58.578	37.316	52.53	-0.24686	0.001415	0.862666	-1.62611	1.52923
AE003852	27750	90.648	42.242	51.632	48.578	45.966	0.637732	-0.35533	-0.04408	-0.06715	0.457206
AE003852	28250	90.35	38.49	50.622	61.712	34.566	0.610423	-0.87415	-0.17501	1.750789	-1.40561
AE003852	28750	76.672	48.136	40.51	52.93	30.604	-0.69638	0.463049	-1.49554	0.536907	-2.05215
AE003852	29250	74.064	46.296	43.178	41.398	25.558	-0.94459	0.209097	-1.14578	-1.05741	-2.87595
AE003852	29750	63.704	29.116	45.422	42.264	34.722	-1.9341	-2.16989	-0.85143	-0.9366	-1.37611
AE003852	30250	78.242	32.366	41.798	46.376	35.852	-0.54268	-1.71873	-1.324	-0.36675	-1.19
AE003852	30750	79.344	38.922	45.282	66.288	41.844	-0.43611	-0.80959	-0.8676	2.388836	-0.20885
AE003852	31250	75.138	51.284	45.618	56.51	37.86	-0.83713	0.903847	-0.82262	1.037169	-0.85899
AE003852	31750	88.182	48.478	39.326	57.622	39.01	0.411418	0.516076	-1.64389	1.192003	-0.66961
AE003852	32250	85.806	38.366	49.47	37.238	49.334	0.185395	-0.88379	-0.31705	-1.62688	1.019912
AE003852	32750	92.964	38.838	58.694	46.718	45.076	0.871085	-0.81746	0.889546	-0.31443	0.324968
AE003852	33250	78.146	45.202	46.188	55.074	48.554	-0.54474	0.065079	-0.74386	0.842525	0.895025
AE003852	33750	78.796	37.366	64.426	50.322	46.354	-0.48139	-1.01949	1.640821	0.186145	0.536607
AE003852	34250	98.606	43.694	58.386	50.282	40.348	1.414179	-0.14194	0.852489	0.181614	-0.44417
AE003852	34750	86.22	45.304	46.368	61.178	35.04	0.230925	0.082034	-0.71714	1.689948	-1.31081

AE003852	35250	73.026	55.874	46.04	35.048	37.512	-1.0296	1.547229	-0.75894	-1.92382	-0.90526
AE003852	35750	73.924	46.12	50.496	40.076	36.37	-0.94253	0.196957	-0.1755	-1.22726	-1.09067
AE003852	36250	75.136	35.834	47.52	45.058	38.58	-0.82545	-1.22701	-0.56338	-0.53705	-0.72796
AE003852	36750	66.902	41.326	54.418	48.618	33.822	-1.61165	-0.46527	0.339218	-0.04357	-1.50466
AE003852	37250	84.18	46.494	43.136	39.684	35.272	0.041785	0.251592	-1.13422	-1.27848	-1.26623
AE003852	37750	82.244	45.868	56.718	38.16	41.68	-0.14216	0.165814	0.641948	-1.4883	-0.21705
AE003852	38250	81.034	45.136	61.622	56.498	46.688	-0.25668	0.065353	1.283942	1.049542	0.60319
AE003852	38750	77.052	59.338	54.332	54.794	53.712	-0.63628	2.033686	0.33224	0.814816	1.753093
AE003852	39250	68.852	50.15	52.076	56.49	38.458	-1.41924	0.761821	0.038458	1.05044	-0.73993
AE003852	39750	72.758	41.798	41.974	49.542	36.214	-1.04453	-0.39423	-1.28076	0.09027	-1.10554
AE003852	40250	72.568	34.604	48.708	36.074	35.08	-1.06151	-1.38987	-0.39959	-1.77187	-1.28965
AE003852	40750	81.674	37.98	45.694	41.024	30.824	-0.18954	-0.92125	-0.79244	-1.08609	-1.98426
AE003852	41250	72.5	46.358	44.178	56.232	37.682	-1.06564	0.240285	-0.98951	1.018759	-0.8615
AE003852	41750	70.474	52.288	38.838	47.202	38.516	-1.25819	1.062705	-1.68636	-0.22943	-0.7238
AE003852	42250	83.186	45.426	41.674	39.648	46.724	-0.04139	0.11306	-1.31464	-1.27344	0.619714
AE003852	42750	74.064	34.808	45.88	43.366	54.944	-0.91251	-1.3569	-0.76387	-0.75809	1.965188
AE003852	43250	59.342	30.488	52.662	40.002	47.792	-2.31915	-1.95441	0.123569	-1.22246	0.797013
AE003852	43750	68.496	40.158	64.156	65.474	43.74	-1.44259	-0.61389	1.626843	2.302291	0.135755
AE003852	44250	75.19	42.868	45.284	54.498	45.894	-0.80127	-0.23753	-0.83857	0.784895	0.489309
AE003852	44750	93.078	33.264	50.73	56.8	41.19	0.910498	-1.56702	-0.12574	1.104351	-0.27857
AE003852	45250	76.182	35.488	44.532	47.52	35.376	-0.70404	-1.25799	-0.93472	-0.17842	-1.22795
AE003852	45750	66.078	40.664	46.892	43.868	38.116	-1.66907	-0.54002	-0.62521	-0.68263	-0.77857
AE003852	46250	81.108	34.518	53.506	40.564	47.128	-0.2306	-1.39048	0.240268	-1.1387	0.696413
AE003852	46750	79.56	44.204	39.818	36.544	36.398	-0.37744	-0.04775	-1.54762	-1.69382	-1.05684
AE003852	47250	67.694	57.528	38.8	53.954	28.246	-1.51097	1.798956	-1.6796	0.715653	-2.38854
AE003852	47750	72.806	53.996	51.956	61.812	31.964	-1.02093	1.310613	0.040887	1.803716	-1.77923
AE003852	48250	95.124	51.838	41.838	51.166	45.674	1.114468	1.012609	-1.28042	0.331971	0.463971
AE003852	48750	95.392	62.484	56.11	45.434	33.036	1.141284	2.488332	0.585925	-0.45998	-1.60128
AE003852	49250	97.418	51.05	44.124	44.726	31.508	1.336214	0.905331	-0.97952	-0.55692	-1.84981
AE003852	49750	94.22	52.028	40.236	49.726	46.706	1.031585	1.041754	-1.4866	0.135771	0.636714
AE003852	50250	83.162	51.112	39.426	41.538	40.566	-0.02468	0.915803	-1.59139	-0.99594	-0.36598
AE003852	50750	93.872	42.718	43.362	37.078	36.686	1.000683	-0.24607	-1.07591	-1.61192	-0.99911
AE003852	51250	71.056	39.144	39.772	48.864	40.984	-1.17997	-0.74023	-1.54404	0.019531	-0.29497
AE003852	51750	76.09	35.786	51.97	50.544	42.848	-0.69739	-1.20447	0.051241	0.252942	0.011168
AE003852	52250	79.79	45.958	49.204	37.192	39.724	-0.34238	0.20559	-0.3092	-1.59315	-0.49834
AE003852	52750	100.652	42.374	55.522	40.11	41.512	1.653789	-0.28996	0.5176	-1.18847	-0.20464
AE003852	53250	81.728	44.112	50.39	36.52	46.888	-0.15468	-0.04825	-0.15206	-1.6841	0.675782

AE003852	53750	53.172	40.996	47.69	47.264	36.966	-2.88423	-0.47897	-0.50387	-0.1968	-0.94535
AE003852	54250	25.47	15.766	22.886	20.644	17.05	-5.53211	-3.97312	-3.74457	-3.87836	-4.20071
AE003852	54750	23.73	6.752	13.844	7.368	7.824	-5.69732	-5.22088	-4.92525	-5.71393	-5.70802
AE003852	55250	57.482	23.278	40.158	32.286	26.692	-2.46851	-2.9306	-1.48507	-2.26582	-2.62137
AE003852	55750	61.958	20.082	40.296	38.756	30.596	-2.03929	-3.3724	-1.46597	-1.36977	-1.98166
AE003852	56250	27.012	5.278	18.562	13.69	16.024	-5.3799	-5.42224	-4.30543	-4.83635	-4.36316
AE003852	56750	16.63	1.852	5.122	2.53	9.134	-6.37152	-5.8959	-6.06091	-6.3792	-5.48849
AE003852	57250	21.342	13.602	9.052	7.944	9.278	-5.91974	-4.26724	-5.54621	-5.62923	-5.46362
AE003852	57750	38.114	20.046	14.764	23.098	20.918	-4.31468	-3.37362	-4.79861	-3.53186	-3.5589
AE003852	58250	23.242	9.532	4.592	21.014	16.544	-5.73567	-4.82917	-6.12698	-3.81915	-4.27281
AE003852	58750	45.232	25.588	16.304	24.992	30.762	-3.63163	-2.60401	-4.59521	-3.26784	-1.94654
AE003852	59250	74.878	45.24	43.404	37.686	42.45	-0.79547	0.11931	-1.05231	-1.51077	-0.03397
AE003852	59750	98	35.964	48.054	38.65	38.18	1.416817	-1.16475	-0.44351	-1.37641	-0.73088
AE003852	60250	101.048	45.4	54.358	37.832	37.062	1.709478	0.143358	0.381453	-1.48857	-0.91236
AE003852	60750	96.032	54.494	65.656	42.89	42.832	1.230998	1.404084	1.859111	-0.78786	0.032484
AE003852	61250	95.102	40.026	57.53	45.864	46.964	1.143252	-0.59921	0.798149	-0.37544	0.709484
AE003852	61750	96.238	35.592	44.642	46.014	42.466	1.253073	-1.21251	-0.88518	-0.35368	-0.02471
AE003852	62250	81.314	42.702	48.996	55.474	48.63	-0.17288	-0.22663	-0.31507	0.955998	0.984569
AE003852	62750	96.876	54.614	51.378	49.942	52.462	1.31646	1.424474	-0.00269	0.191714	1.612512
AE003852	63250	80.016	43.452	52.162	41.246	41.836	-0.29463	-0.12085	0.10084	-1.01027	-0.12374
AE003852	63750	70.394	43.08	55.742	47.786	35.484	-1.21357	-0.17144	0.569793	-0.10454	-1.16109
AE003852	64250	82.264	46.968	57.968	42.428	45.858	-0.07729	0.368105	0.861786	-0.84475	0.536607
AE003852	64750	91.254	32.192	51.976	47.744	38.46	0.783594	-1.67786	0.079727	-0.10834	-0.67179
AE003852	65250	74.932	41.378	63.716	44.986	37.58	-0.77605	-0.40439	1.615152	-0.48888	-0.81436
AE003852	65750	70.778	37.772	69.548	37.204	41.62	-1.1721	-0.90298	2.378431	-1.56442	-0.15241
AE003852	66250	74.946	42.858	56	37.448	58.446	-0.77234	-0.19748	0.60884	-1.52966	2.60033
AE003852	66750	86.588	43.586	49.754	38.542	47.098	0.342148	-0.09569	-0.20642	-1.37732	0.746021
AE003852	67250	72.002	38.324	48.826	49.428	55.878	-1.05149	-0.82369	-0.32664	0.12963	2.183067
AE003852	67750	74.73	40.54	52.426	57.152	41.508	-0.78943	-0.51577	0.144932	1.199156	-0.1654
AE003852	68250	84.872	43.248	46.096	53.214	35.644	0.181615	-0.13969	-0.6813	0.655383	-1.12296
AE003852	68750	85.244	44.732	45.184	49.6	45.48	0.218377	0.066829	-0.79943	0.156431	0.486762
AE003852	69250	74.5	36.302	40.846	50.274	42.39	-0.80786	-1.10003	-1.36532	0.250674	-0.01719
AE003852	69750	90.432	46.85	42.386	58.448	40.334	0.716868	0.362117	-1.16298	1.382452	-0.35206
AE003852	70250	92.444	40.51	50.252	49.582	44.736	0.910459	-0.51522	-0.13387	0.156948	0.369091
AE003852	70750	87.192	35.604	52.514	55.832	40.228	0.409411	-1.1939	0.162826	1.022564	-0.36673
AE003852	71250	93.41	42.366	60.49	54.454	40.322	1.005211	-0.25622	1.206315	0.832936	-0.35003
AE003852	71750	96.244	45.726	59.062	49.776	43.24	1.277407	0.210177	1.020748	0.186793	0.128452

AE003852	72250	73.032	45.02	60.07	58.672	35.7	-0.94111	0.113317	1.153554	1.418451	-1.10317
AE003852	72750	66.602	40.194	69.734	65.3	41.622	-1.55481	-0.55428	2.417656	2.336358	-0.13347
AE003852	73250	63.904	38.142	59.16	44.014	31.844	-1.81162	-0.8376	1.036753	-0.6073	-1.73105
AE003852	73750	80.148	41.07	46.256	51.824	30.418	-0.25706	-0.43105	-0.64867	0.474119	-1.9629
AE003852	74250	76.2	48.098	51.884	57.462	31.898	-0.63341	0.543476	0.087946	1.255072	-1.71956
AE003852	74750	71.112	37.658	40.142	68.608	37.626	-1.11878	-0.90183	-1.44561	2.79799	-0.78158
AE003852	75250	81.46	44.186	48.238	47.232	31.666	-0.12803	0.003433	-0.38644	-0.15812	-1.75484
AE003852	75750	84.528	36.216	49.91	45.094	38.32	0.166539	-1.0997	-0.16685	-0.45289	-0.66544
AE003852	76250	86.8	45.508	48.368	58.222	46.568	0.384993	0.188452	-0.36732	1.364218	0.684617
AE003852	76750	74.474	44.758	33.068	68.124	48.19	-0.79252	0.085497	-2.36588	2.735044	0.951178
AE003852	77250	77.746	35.976	37.096	56.498	37.05	-0.47844	-1.13012	-1.83838	1.127728	-0.86912
AE003852	77750	78.33	36.81	46.854	38.638	41.13	-0.42141	-1.01365	-0.56199	-1.34199	-0.20062
AE003852	78250	65.976	40.426	44.312	47.814	36.108	-1.6016	-0.51179	-0.89315	-0.0716	-1.0205
AE003852	78750	73.636	45.334	42.48	40.746	29.424	-0.86791	0.169057	-1.13152	-1.04837	-2.11214
AE003852	79250	76.742	37.426	46.856	35.88	38.852	-0.5697	-0.92549	-0.55853	-1.72052	-0.56914
AE003852	79750	81.47	38.422	49.104	41.564	55.384	-0.11639	-0.78657	-0.26367	-0.9332	2.135528
AE003852	80250	78.17	51.622	48.438	53.112	49.672	-0.43077	1.042953	-0.34964	0.66533	1.202824
AE003852	80750	90.12	47.028	45.808	61.378	49.608	0.713168	0.407492	-0.69231	1.809834	1.193688
AE003852	81250	87.124	42.202	31.266	37.316	53.668	0.427856	-0.26011	-2.59181	-1.51785	1.858914
AE003852	81750	62.906	46.09	46.51	51.954	46.174	-1.88686	0.279435	-0.59843	0.508141	0.634815
AE003852	82250	59.718	54.012	59.378	67.07	45.408	-2.19054	1.377805	1.084422	2.600262	0.510888
AE003852	82750	78.406	45.046	60.108	69.414	40.686	-0.40226	0.136694	1.180895	2.925529	-0.25993
AE003852	83250	104.428	49.778	56.598	53.33	38.208	2.087346	0.793155	0.723221	0.701502	-0.66381
AE003852	83750	106.018	57.398	53.51	52.544	32.184	2.240582	1.849689	0.3207	0.59377	-1.64753
AE003852	84250	91.584	46.81	65.54	44.284	31.032	0.861483	0.383884	1.894027	-0.5479	-1.83458
AE003852	84750	71.108	45.274	48.87	34.78	45.938	-1.0954	0.172045	-0.28359	-1.86166	0.604202
AE003852	85250	83.568	26.754	47.478	48.468	40.556	0.097309	-2.39257	-0.46446	0.032911	-0.27454
AE003852	85750	72.562	29.198	51.08	54.196	40.414	-0.95398	-2.05307	0.007373	0.826314	-0.29643
AE003852	86250	87.948	37.834	43.776	52.944	43.904	0.518533	-0.85579	-0.94616	0.654117	0.275589
AE003852	86750	100.36	52.722	47.468	49.824	37.042	1.70665	1.207577	-0.46257	0.223505	-0.84516
AE003852	87250	92.64	47.742	51.968	58.184	34.052	0.969593	0.518643	0.126627	1.381014	-1.33276
AE003852	87750	77.968	47.34	56.12	34.974	42.226	-0.43227	0.463896	0.670338	-1.82881	0.005189
AE003852	88250	88.704	40.684	51.39	37.498	34.682	0.59558	-0.45721	0.053216	-1.47864	-1.22709
AE003852	88750	80.272	46.554	50.816	33.15	33.912	-0.20956	0.356896	-0.02074	-2.07913	-1.35167
AE003852	89250	71.714	39.55	63.94	35.23	41.564	-1.02676	-0.61242	1.69557	-1.79039	-0.09907
AE003852	89750	74.596	37.98	66.192	47.918	38.91	-0.74997	-0.82897	1.99096	-0.03415	-0.53173
AE003852	90250	86.442	51.094	51.088	60.406	38.948	0.384022	0.988643	0.018008	1.694415	-0.52419

AE003852	90750	67.054	41.238	49.084	51.608	42.372	-1.46882	-0.37576	-0.24284	0.478319	0.03704
AE003852	91250	62.392	29.658	52.56	46.372	39.352	-1.91344	-1.97899	0.212522	-0.24502	-0.45546
AE003852	91750	81.886	31.972	52.808	50.328	33.596	-0.04809	-1.65749	0.246	0.303251	-1.39536
AE003852	92250	90.66	32.552	69.514	35.698	33.212	0.792131	-1.5762	2.430456	-1.71963	-1.45683
AE003852	92750	76.85	32.71	50.276	42.07	47.08	-0.5273	-1.55337	-0.08279	-0.83714	0.812217
AE003852	93250	77.422	32.804	57.126	50.952	50.26	-0.47141	-1.53941	0.813537	0.392581	1.333544
AE003852	93750	89.152	33.096	60.86	36.95	40.298	0.651489	-1.49801	1.302618	-1.54343	-0.29413
AE003852	94250	83.372	39.88	63.52	37.026	39.622	0.09995	-0.55729	1.651332	-1.53191	-0.40334
AE003852	94750	81.822	42.52	59.492	53.102	39.538	-0.04708	-0.19063	1.125958	0.693015	-0.41574
AE003852	95250	77.144	49.168	41.89	53.604	38.84	-0.49324	0.731253	-1.17347	0.763463	-0.52855
AE003852	95750	72.714	39.56	44.132	54.488	57.584	-0.91568	-0.59879	-0.87939	0.886757	2.537822
AE003852	96250	80.65	39.648	46.268	41.044	43.976	-0.1556	-0.58566	-0.59916	-0.97206	0.313954
AE003852	96750	74	45.838	53.188	44.582	38.112	-0.79033	0.272775	0.306318	-0.48162	-0.6436
AE003852	97250	81.498	50.194	54.258	54.468	43.326	-0.07213	0.87715	0.447228	0.886997	0.210324
AE003852	97750	85.618	35.826	53.12	48.246	35.404	0.323045	-1.1123	0.299562	0.02726	-1.08376
AE003852	98250	76.576	39.392	39.22	40.716	34.294	-0.54043	-0.61736	-1.51603	-1.01342	-1.26394
AE003852	98750	74.13	43.782	50.638	45.766	41.256	-0.77315	-0.00827	-0.02269	-0.31381	-0.12418
AE003852	99250	84.872	48.082	54.63	40.146	42.388	0.255271	0.588343	0.500108	-1.09027	0.06226
AE003852	99750	78.676	37.422	52.298	50.842	43.818	-0.33605	-0.88744	0.196393	0.390395	0.297425
AE003852	100250	83.05	32.214	54.618	45.2	47.744	0.083414	-1.60795	0.500671	-0.38911	0.940739
AE003852	100750	90.588	36.558	53.998	49.888	54.592	0.805442	-1.00524	0.420705	0.260425	2.061862
AE003852	101250	85.922	52.54	46.254	55.184	59.002	0.360432	1.209673	-0.59033	0.994066	2.78432
AE003852	101750	79.974	42.824	39.75	48.034	57.566	-0.20717	-0.13533	-1.43931	0.005951	2.550833
AE003852	102250	75.132	32.402	63.044	61.54	41.498	-0.66901	-1.57814	1.606169	1.875348	-0.0753
AE003852	102750	99.756	45.86	55.246	50.972	45.492	1.686907	0.287123	0.588074	0.414393	0.579137
AE003852	103250	93.534	32.338	43.712	39.38	41.85	1.0931	-1.58513	-0.9183	-1.18822	-0.01508
AE003852	103750	76.356	50.77	49.864	45.036	53.992	-0.5484	0.969185	-0.1132	-0.40478	1.971727
AE003852	104250	94.912	44.916	63.206	46.798	46.628	1.227251	0.159176	1.631603	-0.16002	0.768886
AE003852	104750	96.17	42.222	42.164	41.216	38.928	1.348738	-0.21308	-1.11742	-0.93122	-0.4889
AE003852	105250	76.956	43.682	42.898	51.556	44.81	-0.48746	-0.00989	-1.02042	0.500195	0.474264
AE003852	105750	74.838	51.984	40.018	55.508	36.94	-0.68881	1.141126	-1.39576	1.047909	-0.81132
AE003852	106250	69.554	36.314	42.328	35.608	25.566	-1.19292	-1.02868	-1.09279	-1.70402	-2.66988
AE003852	106750	76.688	34.454	47.37	36.052	38.278	-0.50952	-1.28541	-0.43276	-1.64159	-0.58987
AE003852	107250	76.352	35.928	59.034	45.68	45.572	-0.54047	-1.08027	1.092736	-0.30867	0.604185
AE003852	107750	87.552	38.282	65.964	36.828	32.316	0.531749	-0.75323	1.999518	-1.53224	-1.56212
AE003852	108250	79.83	33.058	56.576	40.368	47.19	-0.2055	-1.47597	0.773619	-1.04152	0.871422
AE003852	108750	84.07	31.862	50.842	49.286	47.548	0.20115	-1.64071	0.025279	0.193184	0.931292

AE003852	109250	78.61	56.216	55.486	45.186	35.888	-0.31979	1.733973	0.633292	-0.373	-0.97404
AE003852	109750	76.646	57.274	66.656	45.598	35.552	-0.50641	1.881479	2.094221	-0.315	-1.02765
AE003852	110250	84.126	39.644	59.198	35.502	48.066	0.210069	-0.55985	1.120563	-1.71066	1.019985
AE003852	110750	85.398	49.044	45.624	44.294	52.384	0.332895	0.743267	-0.65243	-0.49339	1.727399
AE003852	111250	86.286	42.16	45.744	38.452	39.882	0.419	-0.20943	-0.63568	-1.30056	-0.31561
AE003852	111750	69.778	50.986	44.322	47.796	48.628	-1.15843	1.014174	-0.82046	-0.00693	1.115873
AE003852	112250	74.656	46.57	58.624	48.784	49.126	-0.69077	0.40337	1.049806	0.130755	1.198636
AE003852	112750	80.488	39.56	50.744	45.556	42.85	-0.13188	-0.56678	0.020995	-0.3148	0.173706
AE003852	113250	91.686	48.108	52.314	49.002	36.498	0.940141	0.618312	0.227251	0.162917	-0.86365
AE003852	113750	72.202	60.238	59.132	50.7	30.62	-0.92188	2.299612	1.119395	0.398818	-1.8235
AE003852	114250	81.862	52.256	38.73	54.448	31.64	0.003072	1.194814	-1.54598	0.918311	-1.65538
AE003852	114750	103.226	40.056	37.724	48.894	33.926	2.047246	-0.4943	-1.67639	0.150984	-1.28024
AE003852	115250	92.024	33.42	53.27	36.972	41.208	0.977215	-1.41264	0.356457	-1.49728	-0.08815
AE003852	115750	88.982	34.334	51.078	53.99	46.526	0.687504	-1.28508	0.071039	0.857959	0.782788
AE003852	116250	81.438	49.796	43.74	42.742	41.066	-0.03272	0.857799	-0.88694	-0.69706	-0.10871
AE003852	116750	86.29	48.99	44.726	44.332	38.574	0.432451	0.747086	-0.757	-0.4761	-0.51487
AE003852	117250	86.266	37.458	44.14	40.794	52.974	0.431344	-0.84949	-0.83253	-0.96454	1.841162
AE003852	117750	88.092	45.344	52.476	39.07	59.092	0.607147	0.243892	0.258013	-1.20204	2.842914
AE003852	118250	73.466	39.48	45.008	43.158	40.37	-0.79031	-0.5675	-0.71695	-0.63551	-0.2172
AE003852	118750	76.746	36.608	40.614	45.232	35.7	-0.47547	-0.96442	-1.29016	-0.34759	-0.97952
AE003852	119250	83.39	46.3	43.076	52.242	34.828	0.161071	0.379151	-0.96732	0.623161	-1.12078
AE003852	119750	74.152	44.906	45.434	53.584	37.312	-0.72115	0.186983	-0.65808	0.809813	-0.71326
AE003852	120250	72.984	33.712	41.362	39.474	45.094	-0.83165	-1.36277	-1.1892	-1.14113	0.560592
AE003852	120750	79.99	43.556	48.114	55.782	28.996	-0.1605	0.001852	-0.30569	1.115885	-2.07044
AE003852	121250	79.138	32.638	42.656	56.072	35.018	-0.24079	-1.50967	-1.01795	1.157006	-1.08439
AE003852	121750	76.294	39.756	43.146	42.272	31.38	-0.51156	-0.52268	-0.95285	-0.75106	-1.67795
AE003852	122250	87.142	32.92	52.022	63.568	46.582	0.526993	-1.46872	0.208266	2.195993	0.80923
AE003852	122750	85.318	45.186	48.164	50.726	48.42	0.353757	0.231421	-0.29489	0.420457	1.111111
AE003852	123250	83.776	41.504	49.854	47.086	46.378	0.207487	-0.2777	-0.07295	-0.08209	0.778531
AE003852	123750	67.976	55.55	49.256	49.164	35.188	-1.30224	1.669021	-0.15004	0.206378	-1.04994
AE003852	124250	72.468	50.798	42.196	43.814	37.45	-0.87149	1.011672	-1.07168	-0.53273	-0.67873
AE003852	124750	67.82	35.31	35.176	37.48	40.436	-1.31478	-1.13293	-1.98809	-1.40796	-0.18912
AE003852	125250	69.968	35.406	37.944	37.036	45.94	-1.10819	-1.11869	-1.62527	-1.46838	0.712227
AE003852	125750	82.224	46.872	49.892	43.912	39.972	0.065013	0.470631	-0.06266	-0.51616	-0.26234
AE003852	126250	90.922	47.614	46.874	44.122	38.768	0.897969	0.574362	-0.45603	-0.48611	-0.45789
AE003852	126750	80.8	32.114	38.276	47.47	44.07	-0.06878	-1.5719	-1.57868	-0.02195	0.410431
AE003852	127250	70.69	36.916	37.69	49.12	41.266	-1.03439	-0.90574	-1.6542	0.207308	-0.04675

AE003852	127750	80.512	48.836	42.47	50.95	40.634	-0.09395	0.746469	-1.02841	0.461469	-0.14877
AE003852	128250	92.106	38.998	34.132	45.822	42.698	1.015944	-0.61544	-2.11708	-0.24693	0.190068
AE003852	128750	97.562	41.352	43.22	40.458	39.598	1.538876	-0.2884	-0.92826	-0.98797	-0.31552
AE003852	129250	82.916	41.95	54.202	39.56	42.688	0.139503	-0.20462	0.508098	-1.11119	0.191092
AE003852	129750	108.046	51.778	42.712	42.244	44.608	2.54381	1.157789	-0.99252	-0.73889	0.506383
AE003852	130250	92.13	59.888	53.464	49.504	45.252	1.022991	2.282202	0.413776	0.266444	0.61302
AE003852	130750	72.182	49.594	47.022	50.794	40.526	-0.8834	0.857124	-0.4271	0.445902	-0.15845
AE003852	131250	72.806	46.322	41.38	58.498	37.758	-0.82254	0.404799	-1.16341	1.512661	-0.60975
AE003852	131750	69.374	43.676	46.618	53.422	30.472	-1.14954	0.039192	-0.47777	0.81146	-1.79984
AE003852	132250	74.02	37.054	50.228	39.11	31.49	-0.70407	-0.87721	-0.00489	-1.16743	-1.63204
AE003852	132750	80.808	34.22	53.418	39.486	40.288	-0.05376	-1.26886	0.413091	-1.11442	-0.19205
AE003852	133250	97.398	34.966	40.036	46.012	44.278	1.533885	-1.16457	-1.3348	-0.21062	0.461728
AE003852	133750	74.292	39.436	34.132	39.638	41.586	-0.6745	-0.54441	-2.10536	-1.09138	0.022858
AE003852	134250	58.876	36.21	31.86	42.2	30.126	-2.1475	-0.99036	-2.40124	-0.73596	-1.84977
AE003852	134750	62.804	39.21	34.124	37.786	29.574	-1.77069	-0.57383	-2.10428	-1.34558	-1.9387
AE003852	135250	73.818	39.718	27.836	42.88	48.318	-0.71626	-0.50251	-2.92502	-0.63988	1.127672
AE003852	135750	68.262	50.908	30.284	32.51	39.182	-1.24638	1.048568	-2.60401	-2.07345	-0.36493
AE003852	136250	71.67	29.864	30.986	49.932	36.344	-0.91929	-1.8657	-2.5112	0.337681	-0.82767
AE003852	136750	80.42	30.724	38.69	43.376	29.208	-0.08136	-1.74562	-1.50326	-0.56826	-1.99323
AE003852	137250	75.984	42.766	45.856	41.694	34.156	-0.50438	-0.07651	-0.56564	-0.79994	-1.1828
AE003852	137750	71.524	48.534	46.008	33.862	34.95	-0.92969	0.723467	-0.5447	-1.8824	-1.05163
AE003852	138250	65.156	39.734	40.468	43.63	37.39	-1.53746	-0.49465	-1.26769	-0.53012	-0.65131
AE003852	138750	84.572	46.194	51.942	51.194	44.902	0.320435	0.401192	0.232971	0.517276	0.578391
AE003852	139250	92.078	52.168	63.678	49.238	56.422	1.039403	1.229707	1.767873	0.247689	2.463485
AE003852	139750	92.734	52.02	51.31	44.954	48.278	1.103322	1.210146	0.152503	-0.34395	1.133098
AE003852	140250	86.48	43.036	57.096	55.958	40.426	0.506456	-0.03346	0.90977	1.179326	-0.14954
AE003852	140750	72.922	50.798	57.818	46.4	35.908	-0.78887	1.042747	1.005197	-0.14191	-0.887
AE003852	141250	72.488	55.494	47.018	48.626	40.4	-0.82919	1.694222	-0.40524	0.167035	-0.15113
AE003852	141750	71.524	35.68	39.012	37.296	47.61	-0.92019	-1.04965	-1.45052	-1.39933	1.029184
AE003852	142250	68.74	32.028	35.602	38.112	44.934	-1.18522	-1.55462	-1.89513	-1.28545	0.592931
AE003852	142750	80.862	28.75	45.184	37.602	49.128	-0.02484	-2.00778	-0.64174	-1.355	1.280068
AE003852	143250	75.144	26.91	41.58	40.134	51.076	-0.57045	-2.26173	-1.1117	-1.00372	1.599937
AE003852	143750	75.332	40.628	30.642	38.09	45.214	-0.55128	-0.36044	-2.54018	-1.28548	0.642705
AE003852	144250	80.58	47.022	49.46	42.672	39.546	-0.04824	0.526252	-0.07969	-0.65062	-0.2828
AE003852	144750	81.07	50.834	42.19	38.814	34.26	-0.0002	1.055267	-1.02878	-1.18332	-1.14585
AE003852	145250	81.086	34.634	48.72	60.07	44.604	0.002521	-1.18796	-0.17428	1.758196	0.546946
AE003852	145750	74.368	45.246	56.33	56.142	48.21	-0.63872	0.28305	0.821377	1.215806	1.137934

AE003852	146250	85.604	57.464	55.714	53.252	42.112	0.436942	1.976541	0.741935	0.817011	0.142111
AE003852	146750	94.288	65.43	52.7	60.394	33.992	1.268559	3.081006	0.349085	1.806024	-1.18435
AE003852	147250	68.36	47.688	39.932	65.496	30.996	-1.20968	0.624163	-1.31856	2.512827	-1.67293
AE003852	147750	70.582	33.074	35.36	64.812	41.152	-0.99601	-1.39936	-1.91504	2.419207	-0.01088
AE003852	148250	67.864	32.86	43.65	56.072	27.578	-1.25474	-1.42806	-0.83051	1.211134	-2.22919
AE003852	148750	91.18	46.142	52.36	62.818	31.916	0.976101	0.412822	0.308911	2.145365	-1.5185
AE003852	149250	84.422	31.428	61.238	54.402	39.746	0.331038	-1.62456	1.470287	0.982114	-0.2368
AE003852	149750	76.776	44.922	48.584	65.234	33.114	-0.39894	0.245699	-0.18246	2.481595	-1.31995
AE003852	150250	69.096	53.236	46.096	50.15	41.332	-1.13217	1.398373	-0.50657	0.395906	0.025201
AE003852	150750	66.666	48.694	39.104	53.584	36.392	-1.36336	0.770115	-1.41932	0.871961	-0.78126
AE003852	151250	52.518	37.998	24.842	29.978	28.954	-2.71511	-0.71065	-3.28223	-2.39265	-1.99621
AE003852	151750	43.198	21.154	22.214	37.46	30.132	-3.60517	-3.0431	-3.62463	-1.3566	-1.80225
AE003852	152250	22.654	10.226	13.284	25.106	12.018	-5.56855	-4.556	-4.79067	-3.06462	-4.76294
AE003852	152750	13.778	9.358	7.438	27.694	5.546	-6.41615	-4.6753	-5.55365	-2.7056	-5.81992
AE003852	153250	17.662	4.74	8.094	27.748	10.27	-6.04355	-5.31409	-5.46685	-2.69713	-5.04612
AE003852	153750	11.648	2.322	4.282	5.206	1.922	-6.61747	-5.64811	-5.96399	-5.81454	-6.40986
AE003852	154250	7.72	2.804	2.408	0.416	2.546	-6.9919	-5.5804	-6.20785	-6.47618	-6.3065
AE003852	154750	6.864	4.31	3.728	1.17	2.202	-7.07257	-5.37083	-6.03426	-6.37087	-6.36142
AE003852	155250	15.744	5.19	6.282	7.43	5.67	-6.22221	-5.24798	-5.6994	-5.50387	-5.793
AE003852	155750	53.034	15.614	16.17	36.736	25.384	-2.65507	-3.80301	-4.40603	-1.44874	-2.56801
AE003852	156250	71.146	37.632	37.216	44.04	25.082	-0.92188	-0.75194	-1.65435	-0.43731	-2.61606
AE003852	156750	78.688	47.67	42.7	50.024	43.554	-0.19947	0.639561	-0.93656	0.391506	0.40583
AE003852	157250	92.646	48.816	61.168	45.826	45.55	1.136487	0.799257	1.478185	-0.18823	0.733548
AE003852	157750	88.394	47.238	71.446	39.902	51.084	0.731067	0.5816	2.822534	-1.00675	1.639804
AE003852	158250	94.506	43.142	44.322	38.164	46.854	1.31673	0.015126	-0.72137	-1.24618	0.949439
AE003852	158750	87.428	49.516	55.844	34.43	38.952	0.641067	0.899053	0.785561	-1.76173	-0.34138
AE003852	159250	86.296	43.098	56.006	42.942	38.884	0.534004	0.010914	0.8078	-0.58319	-0.35117
AE003852	159750	77.298	47.358	51.752	53.066	37.974	-0.32526	0.60199	0.252888	0.818345	-0.49864
AE003852	160250	80.884	56.772	56.29	46.134	58.342	0.018844	1.907045	0.847048	-0.13961	2.833289
AE003852	160750	88.58	31.536	49.906	39.768	50.198	0.755982	-1.58794	0.013756	-1.01927	1.502902
AE003852	161250	85.222	43.552	44.902	46.076	55.872	0.436052	0.077573	-0.63918	-0.14563	2.432051
AE003852	161750	86.288	51.242	53.684	53.64	45.68	0.539179	1.143804	0.509653	0.90176	0.766772
AE003852	162250	101.504	60.17	44.532	45.596	41.768	1.995435	2.381534	-0.6854	-0.21003	0.128406
AE003852	162750	86.106	53.716	43.512	52.136	48.086	0.524151	1.488409	-0.81765	0.695705	1.162863
AE003852	163250	96.782	55.684	53.22	53.36	58.88	1.546258	1.761976	0.452207	0.866033	2.929241
AE003852	163750	87.368	50.998	55.778	37.72	56.242	0.647209	1.11377	0.78759	-1.29657	2.499202
AE003852	164250	94.726	43.292	47.264	46.278	45.154	1.352024	0.047205	-0.32408	-0.11167	0.687408

AE003852	164750	72.724	47.672	47.036	57.326	33.964	-0.75078	0.654905	-0.35281	1.417689	-1.14107
AE003852	165250	91.834	48.852	39.128	45.104	30.992	1.077845	0.819311	-1.38529	-0.27208	-1.62572
AE003852	165750	91.79	44.442	46.69	53.91	35.914	1.074826	0.209339	-0.3959	0.947131	-0.81954
AE003852	166250	79.634	36.788	36.884	49.922	39.948	-0.08643	-0.85002	-1.67643	0.396441	-0.15857
AE003852	166750	79.526	30.82	39.416	44.876	43.084	-0.09557	-1.67582	-1.34445	-0.30061	0.355567
AE003852	167250	82.236	37.582	42.786	57.036	28.034	0.164765	-0.73815	-0.90294	1.382583	-2.1041
AE003852	167750	77.236	37.426	41.544	47.606	34.032	-0.31218	-0.75882	-1.0642	0.079057	-1.12197
AE003852	168250	88.086	53.48	55.188	46.598	44.132	0.726561	1.466074	0.720069	-0.05939	0.530926
AE003852	168750	95.766	53.18	60.33	59.812	46.894	1.462169	1.425457	1.393169	1.769616	0.983901
AE003852	169250	72.406	45.978	54.992	55.398	45.124	-0.7705	0.428711	0.696584	1.159994	0.695798
AE003852	169750	78.6	29.264	54.354	59.05	47.758	-0.177	-1.88572	0.614266	1.666207	1.127843
AE003852	170250	84.59	34.19	47.458	60.26	41.086	0.397	-1.20239	-0.28594	1.834599	0.038159
AE003852	170750	93.284	35.274	48.902	51.296	50.702	1.229573	-1.05128	-0.09615	0.595539	1.611909
AE003852	171250	104.468	34.992	49.726	50.412	46.564	2.300259	-1.0894	0.012606	0.47425	0.936587
AE003852	171750	84.316	42.6	57.226	56.304	39.384	0.374362	-0.03453	0.993884	1.290341	-0.23617
AE003852	172250	88.964	29.406	45.182	48.252	33.178	0.820026	-1.86134	-0.57914	0.177445	-1.24965
AE003852	172750	88.166	36.77	45.604	41.414	32.268	0.744904	-0.84027	-0.52292	-0.76751	-1.39712
AE003852	173250	77.744	39.916	44.336	29.626	31.298	-0.25054	-0.40352	-0.68758	-2.39724	-1.55441
AE003852	173750	79.886	25.43	50.13	36.556	29.294	-0.04452	-2.40931	0.070734	-1.43755	-1.88078
AE003852	174250	74.344	33.666	55.724	39.832	35.244	-0.5733	-1.26744	0.802907	-0.98335	-0.9065
AE003852	174750	70.89	47.506	46.978	39.08	37.45	-0.9024	0.650742	-0.33909	-1.08638	-0.54444
AE003852	175250	64.242	48.272	50.592	46.986	33.064	-1.53695	0.757797	0.134311	0.008323	-1.26031
AE003852	175750	76.42	59.454	69.746	48.296	43.222	-0.37121	2.307772	2.638709	0.190548	0.402066
AE003852	176250	68.996	75.646	58.018	44.174	46.274	-1.07996	4.551779	1.106984	-0.37868	0.902462
AE003852	176750	79.094	54.818	60.338	42.83	35.012	-0.11312	1.667434	1.411262	-0.5636	-0.93778
AE003852	177250	90.62	57.868	54.056	48.354	43.14	0.990266	2.09089	0.591301	0.201579	0.392646
AE003852	177750	88.88	49.992	49.586	54.628	37.302	0.825062	1.000776	0.008159	1.070514	-0.56066
AE003852	178250	85.638	57.154	47.852	54.726	33.298	0.516225	1.993864	-0.2174	1.085074	-1.21407
AE003852	178750	94.29	55.584	50.662	60.262	52.75	1.344782	1.777314	0.150918	1.851916	1.968074
AE003852	179250	106.908	47.998	49.852	65.2	48.96	2.552598	0.727374	0.046121	2.536032	1.349658
AE003852	179750	99.9	41.88	45.734	54.742	36.742	1.883629	-0.11921	-0.49102	1.090295	-0.64692
AE003852	180250	92.582	37.512	37.834	45.102	37.018	1.185015	-0.72336	-1.52244	-0.24228	-0.60045
AE003852	180750	88.176	41.5	45.58	49.746	33.514	0.764868	-0.16996	-0.50901	0.401162	-1.1721
AE003852	181250	104.772	44.668	45.376	65.02	42.024	2.35309	0.269838	-0.53461	2.515141	0.220793
AE003852	181750	99.82	47.458	64.196	66.302	47.896	1.88073	0.657276	1.926138	2.693492	1.182319
AE003852	182250	82.746	63.194	64.41	56.77	38.514	0.249175	2.838113	1.955172	1.375856	-0.35051
AE003852	182750	94.678	59.266	50.442	47.028	38.792	1.39139	2.294912	0.130689	0.029169	-0.30372

AE003852	183250	95.576	54.232	44.132	51.01	44.058	1.478451	1.598498	-0.69293	0.581033	0.558713
AE003852	183750	103.496	41.842	61.476	64.142	35.268	2.237009	-0.11694	1.574909	2.398692	-0.87731
AE003852	184250	106.258	47.104	66.154	58.086	43.74	2.50232	0.612945	2.187366	1.561919	0.509373
AE003852	184750	110.286	45.036	56.02	49.25	45.952	2.888696	0.327409	0.863968	0.340566	0.872411
AE003852	185250	98.508	35	55.852	42.616	40.31	1.763583	-1.06193	0.843076	-0.57617	-0.04885
AE003852	185750	96.508	41.52	49.506	46.288	29.916	1.573516	-0.15778	0.014751	-0.06719	-1.74716
AE003852	186250	97.742	55.158	60.47	50.968	34.716	1.692709	1.732426	1.448757	0.581238	-0.96092
AE003852	186750	76.722	54.5	49.63	64.58	35.87	-0.31619	1.642215	0.033088	2.465298	-0.77089
AE003852	187250	84.184	57.402	52.082	63.672	27.654	0.398567	2.045169	0.354618	2.340689	-2.11305
AE003852	187750	108.258	61.742	60.99	66.202	37.264	2.701891	2.647327	1.519915	2.691687	-0.54028
AE003852	188250	95.37	46.206	47.762	60.72	34.79	1.470632	0.496079	-0.20785	1.93432	-0.94351
AE003852	188750	86.218	42.686	55.238	58.756	28.39	0.596637	0.009398	0.770288	1.663626	-1.98871
AE003852	189250	79.278	44.398	58.182	56.168	36.142	-0.06583	0.247502	1.15612	1.30661	-0.71977
AE003852	189750	86.732	34.958	54.666	40.01	46.548	0.648166	-1.05927	0.697661	-0.92765	0.983166
AE003852	190250	76.758	42.234	44.204	50.414	43.544	-0.30443	-0.05039	-0.6686	0.512617	0.493278
AE003852	190750	74.802	43.41	39.652	53.23	34.32	-0.49029	0.11346	-1.26246	0.90318	-1.01371
AE003852	191250	71.722	35.58	43.176	54.07	34.162	-0.78364	-0.97028	-0.80083	1.020386	-1.03822
AE003852	191750	78.034	39.458	50.176	45.898	42.526	-0.17885	-0.43212	0.115102	-0.10911	0.330802
AE003852	192250	73.694	47.304	47.898	59.17	58.854	-0.59269	0.655718	-0.18156	1.727915	3.002107
AE003852	192750	79.316	38.316	53.232	52.208	47.608	-0.05388	-0.58844	0.516637	0.765808	1.164476
AE003852	193250	76.15	39.454	57.512	36.032	39.472	-0.35545	-0.42985	1.077078	-1.47095	-0.1646
AE003852	193750	67.496	33.814	55.396	35.826	44.494	-1.18182	-1.21022	0.801592	-1.49844	0.65793
AE003852	194250	65.274	38.626	35.108	40.514	41.924	-1.39312	-0.54267	-1.84888	-0.84891	0.23901
AE003852	194750	67.878	47.394	42.02	46.766	43.462	-1.14292	0.672894	-0.94445	0.016981	0.491836
AE003852	195250	75.392	34.842	37.27	46.91	41.178	-0.42318	-1.06498	-1.56419	0.037905	0.119683
AE003852	195750	80.846	41.638	47.83	44.868	44.21	0.099558	-0.1226	-0.18298	-0.24358	0.616809
AE003852	196250	71.254	40.684	48.098	38.106	37.352	-0.81651	-0.25381	-0.14689	-1.17802	-0.50329
AE003852	196750	78.268	45.3	47.59	37.978	35.152	-0.14459	0.38658	-0.21222	-1.19472	-0.86171
AE003852	197250	70.588	39.674	53.74	52.63	36.77	-0.87782	-0.39184	0.59262	0.833208	-0.5958
AE003852	197750	71.532	35.304	43.708	44.248	43.368	-0.78636	-0.99627	-0.71745	-0.32534	0.484442
AE003852	198250	80.546	50.596	51.248	47.438	39.058	0.07681	1.123056	0.269058	0.116961	-0.219
AE003852	198750	71.302	62.814	51.252	55.3	42.176	-0.80598	2.816547	0.270647	1.205578	0.292184
AE003852	199250	65.116	57.898	52.488	46.83	34.05	-1.39635	2.136479	0.433251	0.034857	-1.03526
AE003852	199750	56.798	37.156	54.422	47.884	42.536	-2.19059	-0.73595	0.687081	0.181667	0.353711
AE003852	200250	66.788	34.896	55.412	39.016	49.03	-1.23408	-1.04809	0.817534	-1.04411	1.416947
AE003852	200750	61.414	47.272	48.248	36.872	49.434	-1.7468	0.667293	-0.1177	-1.33971	1.48434
AE003852	201250	62.664	56.134	45.31	41.812	54.734	-1.62607	1.895881	-0.50062	-0.65531	2.352332

AE003852	201750	64.382	49.648	36.944	43.084	54.154	-1.4606	0.998322	-1.59295	-0.47835	2.258819
AE003852	202250	76.648	39.07	32.418	46.194	60.346	-0.28644	-0.4661	-2.18341	-0.04711	3.272672
AE003852	202750	85.052	47.602	36.052	44.31	47.378	0.5184	0.716775	-1.70739	-0.30674	1.153458
AE003852	203250	74.268	34.802	38.214	42.032	40.488	-0.51166	-1.05546	-1.42377	-0.62087	0.028127
AE003852	203750	84.856	44.222	41.374	44.694	48.176	0.502033	0.250429	-1.0097	-0.25161	1.286608
AE003852	204250	74.036	48.776	48.424	44.992	42.666	-0.53147	0.882233	-0.08724	-0.20939	0.386935
AE003852	204750	82.156	51.03	49.276	59.618	33.61	0.246214	1.195419	0.025179	1.81495	-1.09258
AE003852	205250	75.836	46.512	57.16	40.436	37.884	-0.35696	0.570486	1.056644	-0.83765	-0.39236
AE003852	205750	79.098	32.252	57.314	39.286	34.522	-0.04384	-1.404	1.077836	-0.99574	-0.94079
AE003852	206250	77.92	51.132	54.518	47.226	30.494	-0.1553	1.212374	0.713479	0.103672	-1.59813
AE003852	206750	83.328	54.856	56.75	43.154	34.088	0.363042	1.729199	1.006255	-0.45864	-1.0091
AE003852	207250	93.63	43.124	58.158	46.912	35.802	1.349384	0.104916	1.191339	0.062238	-0.7275
AE003852	207750	71.264	39.424	47.59	38.844	37.018	-0.78823	-0.4067	-0.18878	-1.05287	-0.52733
AE003852	208250	78.822	37.204	50.948	34.772	45.238	-0.06429	-0.71329	0.251159	-1.61518	0.818148
AE003852	208750	93.298	41.428	48.822	50.13	38.198	1.3212	-0.1272	-0.02563	0.510417	-0.33171
AE003852	209250	75.05	48.62	46.424	43.428	39.622	-0.42262	0.870039	-0.33797	-0.41572	-0.09753
AE003852	209750	72.644	51.486	43.788	48.046	41.582	-0.65151	1.268005	-0.68142	0.224126	0.224304
AE003852	210250	68.162	46.06	47.642	43.81	31.716	-1.07893	0.517288	-0.17666	-0.36087	-1.38767
AE003852	210750	65.828	40.62	52.438	53.146	34.508	-1.30094	-0.23537	0.451222	0.931655	-0.92979
AE003852	211250	54.34	31.308	50.426	42.184	34.124	-2.39832	-1.52441	0.189329	-0.58381	-0.99125
AE003852	211750	79.056	36	48.4	42.734	44.69	-0.0336	-0.87349	-0.07439	-0.50672	0.737846
AE003852	212250	85.418	44.892	60.46	46.238	37.882	0.575971	0.359252	1.502854	-0.02098	-0.37408
AE003852	212750	86.762	44.342	55.216	39.95	31.788	0.705683	0.284003	0.818555	-0.88985	-1.36925
AE003852	213250	90.294	35.302	32.764	41.396	26.388	1.044627	-0.96736	-2.11474	-0.68881	-2.25093
AE003852	213750	82.368	33.232	24.464	44.518	38.74	0.287871	-1.25317	-3.19845	-0.25591	-0.22979
AE003852	214250	78.262	42.702	41.192	49.574	47.088	-0.10359	0.05964	-1.01112	0.444528	1.136618
AE003852	214750	78.104	43.764	50.492	46.746	36.86	-0.11751	0.2077	0.205413	0.05431	-0.53455
AE003852	215250	80.124	45.788	59.744	54.402	34.016	0.076847	0.489024	1.415669	1.114429	-0.99827
AE003852	215750	70.506	46.13	57.924	40.832	35.776	-0.84171	0.537343	1.17887	-0.76182	-0.70915
AE003852	216250	84.968	46.894	47.398	35.318	35.898	0.542443	0.644121	-0.19576	-1.52361	-0.68787
AE003852	216750	87.644	36.016	49.682	42.954	33.738	0.79953	-0.86186	0.103812	-0.46626	-1.03974
AE003852	217250	73.702	39.998	28.534	40.494	38.568	-0.53252	-0.30929	-2.65906	-0.80557	-0.24861
AE003852	217750	75.68	41.292	38.176	37.948	34.964	-0.34218	-0.12909	-1.39783	-1.15677	-0.83661
AE003852	218250	72.814	35.2	44.794	33.68	28.312	-0.61506	-0.97207	-0.53183	-1.7462	-1.92302
AE003852	218750	66.146	32.77	40.884	37.094	39.672	-1.25152	-1.30776	-1.04178	-1.27291	-0.06409
AE003852	219250	76.68	32.796	46.932	49.48	46.26	-0.24299	-1.30321	-0.25027	0.441548	1.014518
AE003852	219750	69.024	41.048	56.538	58.478	43.528	-0.97393	-0.15913	1.00625	1.687316	0.569108

AE003852	220250	81.558	39.256	50.786	58.756	49.934	0.225857	-0.40643	0.255558	1.726777	1.617955
AE003852	220750	84.81	37.17	52.156	42.904	37.896	0.538026	-0.69446	0.435675	-0.46516	-0.34918
AE003852	221250	87.112	57.636	59	37.654	36.022	0.759348	2.141618	1.331217	-1.19043	-0.65429
AE003852	221750	79.834	58.034	51.236	40.342	46.208	0.064559	2.197694	0.317567	-0.81757	1.012663
AE003852	222250	72.66	43.134	46.788	38.62	44.832	-0.62028	0.134551	-0.2627	-1.05479	0.788988
AE003852	222750	72.42	31.904	44.73	39.798	34.642	-0.64205	-1.42019	-0.5306	-0.89082	-0.87596
AE003852	223250	86.266	41.95	62.566	38.358	33.97	0.683199	-0.02758	1.801538	-1.08903	-0.98452
AE003852	223750	94.532	44.378	54.044	39.36	32.254	1.474844	0.309706	0.68882	-0.94941	-1.26379
AE003852	224250	70.368	32.914	49.74	40.206	33.524	-0.83471	-1.27745	0.127374	-0.83138	-1.05479
AE003852	224750	76.224	38.96	49.7	44.888	43.488	-0.27353	-0.43896	0.123212	-0.18267	0.575863
AE003852	225250	81.846	39.48	36.606	35.764	42.066	0.265278	-0.36598	-1.58704	-1.44387	0.344666
AE003852	225750	77.302	45.446	41.756	41.944	39.558	-0.16807	0.461422	-0.9129	-0.58794	-0.06412
AE003852	226250	71.03	50.466	50.682	54.13	41.84	-0.76665	1.157781	0.254751	1.098853	0.310369
AE003852	226750	71.384	45.798	51.77	43.802	47.62	-0.73161	0.512068	0.398012	-0.3289	1.256851
AE003852	227250	80.754	56.35	50.968	44.002	46.812	0.165604	1.97477	0.294261	-0.30023	1.126056
AE003852	227750	66.308	40.038	47.366	42.728	34.024	-1.21464	-0.28398	-0.17544	-0.47547	-0.96372
AE003852	228250	81.878	38.006	38.262	51.912	36.388	0.275466	-0.56453	-1.36422	0.796029	-0.57583
AE003852	228750	77.438	40.52	41.412	53.774	48.438	-0.14793	-0.21532	-0.95146	1.054617	1.39593
AE003852	229250	79.388	33.76	46.85	57.876	55.676	0.039729	-1.15084	-0.23968	1.623082	2.580827
AE003852	229750	69.676	42.004	53.408	48.614	41.03	-0.88782	-0.00786	0.618484	0.342797	0.187224
AE003852	230250	83.524	41.844	45.452	51.292	34.236	0.437621	-0.02908	-0.42026	0.714269	-0.92241
AE003852	230750	72.836	38.034	49.882	47.656	41.016	-0.58326	-0.55594	0.159784	0.212274	0.187594
AE003852	231250	75.69	52.15	40.676	39.598	31.966	-0.30915	1.40048	-1.04233	-0.90145	-1.29094
AE003852	231750	82.954	43.456	55.968	46.408	37.782	0.386677	0.197049	0.957325	0.041633	-0.33857
AE003852	232250	93.77	47.498	44.954	57.328	41.402	1.422172	0.757926	-0.48108	1.553287	0.254702
AE003852	232750	90.152	41.41	55.54	48.294	22.786	1.07738	-0.0845	0.903518	0.304543	-2.78808
AE003852	233250	79.448	51.254	38.384	31.854	36.258	0.054971	1.280125	-1.33762	-1.96873	-0.58379
AE003852	233750	71.132	57.364	47.046	36.412	45.864	-0.73908	2.12748	-0.20447	-1.33719	0.988322
AE003852	234250	92.762	43.268	60.958	38.656	45.086	1.330531	0.175714	1.61482	-1.02575	0.862433
AE003852	234750	77.302	39.792	56.182	47.644	42.046	-0.14668	-0.30487	0.991686	0.218633	0.366658
AE003852	235250	69.91	42.708	42.264	45.342	34.31	-0.85237	0.100021	-0.82626	-0.09882	-0.89701
AE003852	235750	69.46	39.408	64.648	45.46	36.792	-0.89422	-0.35618	2.100281	-0.08149	-0.48982
AE003852	236250	70.804	37.74	55.164	45.768	35.642	-0.76451	-0.58631	0.861835	-0.03788	-0.67654
AE003852	236750	79.498	35.258	57.074	42.826	40.724	0.068068	-0.9292	1.112528	-0.44387	0.155801
AE003852	237250	79.842	40.78	49.882	40.306	50.706	0.102152	-0.1633	0.173635	-0.79148	1.7894
AE003852	237750	73.702	47.112	38.186	50.348	48.032	-0.48381	0.714812	-1.35391	0.598713	1.353473
AE003852	238250	76.758	52.726	57.748	40.36	53.13	-0.19039	1.493457	1.203813	-0.78201	2.188434

AE003852	238750	93.258	37.624	61.97	41.518	40.656	1.388655	-0.59767	1.756673	-0.62081	0.15
AE003852	239250	75.674	37.954	50.6	38.046	44.714	-0.29167	-0.55101	0.271736	-1.10011	0.814899
AE003852	239750	76.76	43.106	50.514	33.562	34.146	-0.18663	0.163631	0.261561	-1.71942	-0.91186
AE003852	240250	90.808	41.344	42.526	45.732	43.208	1.157931	-0.07952	-0.78136	-0.03484	0.571295
AE003852	240750	87.636	38.318	48.35	36.738	42.822	0.855789	-0.49776	-0.01913	-1.27805	0.509505
AE003852	241250	80.764	40.706	50.06	39.872	39.274	0.199825	-0.16601	0.205422	-0.8435	-0.06934
AE003852	241750	66.054	39.314	46.622	39.416	32.192	-1.20567	-0.35791	-0.24284	-0.90558	-1.22607
AE003852	242250	66.59	48.474	44.852	29.894	38.524	-1.15322	0.911964	-0.47311	-2.22183	-0.18932
AE003852	242750	75.688	38.312	38.666	38.358	48.152	-0.28202	-0.49483	-1.28052	-1.04994	1.386392
AE003852	243250	77.884	39.838	35.606	33.538	38.852	-0.07083	-0.28249	-1.67938	-1.71572	-0.13303
AE003852	243750	83.176	35.984	48.904	38.74	35.168	0.436418	-0.81544	0.059666	-0.99509	-0.73411
AE003852	244250	88.028	60.612	60.342	52.664	45.354	0.901591	2.597198	1.555621	0.932135	0.932848
AE003852	244750	83.642	49.138	56.272	59.744	29.72	0.483357	1.008655	1.024758	1.912571	-1.62231
AE003852	245250	80.08	39.258	51.468	40.058	42.898	0.143919	-0.35907	0.397965	-0.80975	0.533899
AE003852	245750	86.324	32.798	64.988	44.702	41.246	0.742206	-1.25303	2.166027	-0.16631	0.265092
AE003852	246250	98.868	37.646	63.414	58.642	35.44	1.942945	-0.5805	1.961378	1.76313	-0.68298
AE003852	246750	97.072	54.036	55.006	62.074	49.216	1.772386	1.690938	0.86356	2.238909	1.571015
AE003852	247250	95.434	44.37	61.968	58.028	64.454	1.616936	0.352857	1.774524	1.680195	4.064082
AE003852	247750	83.548	42.022	60.672	49.03	40.874	0.481496	0.028532	1.606209	0.436431	0.20958
AE003852	248250	101.46	53.954	63.67	58.34	48.142	2.195563	1.682404	1.999098	1.725361	1.399382
AE003852	248750	106.496	50.482	71.216	60.618	51.082	2.678331	1.202372	2.986388	2.041498	1.881464
AE003852	249250	85.462	62.292	54.628	47.126	46.31	0.668091	2.839343	0.819485	0.176043	1.102471
AE003852	249750	56.668	44.274	41.55	41.156	33.944	-2.08422	0.344266	-0.88868	-0.64883	-0.9183
AE003852	250250	62.364	36.264	39.704	48.948	26.902	-1.53834	-0.76441	-1.12888	0.4301	-2.06849
AE003852	250750	94.884	39.064	42.382	58.158	36.758	1.572657	-0.37559	-0.77781	1.705196	-0.4555
AE003852	251250	89.848	47.698	45.982	45.94	46.57	1.092265	0.821415	-0.30624	0.015983	1.150304
AE003852	251750	77.262	37.344	56.218	46.206	48.286	-0.11011	-0.61197	1.032617	0.053784	1.432237
AE003852	252250	76.98	33.714	72.556	46.782	44.04	-0.13589	-1.11389	3.168978	0.134469	0.739255
AE003852	252750	78.014	60.302	57.504	45.372	36.79	-0.03583	2.570262	1.202822	-0.05959	-0.44494
AE003852	253250	69.962	52.704	46.264	49.442	29.362	-0.80463	1.518659	-0.26512	0.504453	-1.65825
AE003852	253750	106.212	44.55	48.9	53.002	38.514	2.663053	0.390034	0.080453	0.997939	-0.16037
AE003852	254250	88.508	48.28	38.642	62.922	37.904	0.971252	0.907689	-1.25915	2.371255	-0.25879
AE003852	254750	85.874	46.858	34.592	46.45	32.598	0.720557	0.711642	-1.7874	0.093552	-1.12511
AE003852	255250	75.43	34.08	42.072	35.16	27.944	-0.27699	-1.05754	-0.80874	-1.46728	-1.88481
AE003852	255750	83.468	46.13	59.672	43.482	27.288	0.492853	0.612676	1.492561	-0.31503	-1.99075
AE003852	256250	76.104	35.956	47.406	41.952	30.182	-0.21016	-0.79578	-0.10948	-0.52569	-1.51619
AE003852	256750	75.428	33.342	55.138	43.766	44.156	-0.27362	-1.15695	0.902121	-0.27374	0.77019

AE003852	257250	97.684	34.91	60.036	46.082	40.11	1.855858	-0.9388	1.543331	0.047656	0.109912
AE003852	257750	90.9	44.434	56.144	43.948	26.716	1.208309	0.381498	1.035731	-0.24656	-2.07896
AE003852	258250	86.572	51.506	52.63	48.8	30.528	0.795621	1.362118	0.577534	0.425664	-1.45429
AE003852	258750	95.308	59.34	51.858	48.898	34.128	1.632211	2.448297	0.477703	0.440223	-0.86428
AE003852	259250	93.78	48.116	41.474	39.208	40.16	1.48728	0.894387	-0.87837	-0.89927	0.123407
AE003852	259750	113.828	42.84	45.096	46.606	42.91	3.405608	0.164449	-0.40393	0.125157	0.57442
AE003852	260250	83.488	35.378	34.96	41.588	36.134	0.505458	-0.86831	-1.72759	-0.56802	-0.53227
AE003852	260750	84.438	24.952	34.574	47.226	43.862	0.597492	-2.31168	-1.77697	0.212931	0.732751
AE003852	261250	99.054	25.038	46.432	53.23	47.682	1.996372	-2.29882	-0.22612	1.044516	1.358732
AE003852	261750	88.084	34.014	59.538	62.096	53.298	0.948526	-1.05444	1.487834	2.272023	2.278397
AE003852	262250	45.4	17.72	27.266	44.564	26.306	-3.13205	-3.3107	-2.72889	-0.15232	-2.13404
AE003852	262750	13.398	6.37	5.43	13.324	6.824	-6.19113	-4.88206	-5.58168	-4.473	-5.31843
AE003852	263250	3.712	2.734	3.028	19.458	1.72	-7.11619	-5.38481	-5.89455	-3.62343	-6.15171
AE003852	263750	47.538	27.748	34.906	51.794	24.238	-2.92403	-1.9187	-1.72718	0.850874	-2.46821
AE003852	264250	77.074	46.292	52.664	59.372	30.584	-0.09839	0.651126	0.594763	1.900202	-1.42918
AE003852	264750	77.234	44.588	54.212	51.442	33.378	-0.0819	0.416014	0.798145	0.804184	-0.97097
AE003852	265250	86.038	49.776	43.818	44.06	42.714	0.761188	1.135646	-0.55923	-0.21603	0.556995
AE003852	265750	79.278	38.19	35.48	62.378	35.086	0.115934	-0.46841	-1.6479	2.319054	-0.68902
AE003852	266250	91.516	32.02	45.7	63.274	34.378	1.287411	-1.3222	-0.31114	2.444007	-0.80346
AE003852	266750	87.166	29.362	42.316	50.622	43.074	0.87262	-1.68946	-0.75234	0.694756	0.619852
AE003852	267250	90.094	45.766	46.894	43.29	54.284	1.153805	0.58391	-0.15295	-0.31854	2.454255
AE003852	267750	79.808	44.838	52.014	39.986	48.618	0.171369	0.456297	0.51727	-0.7746	1.529073
AE003852	268250	66.178	38.192	38.628	38.368	35.29	-1.13085	-0.46343	-1.23115	-0.99743	-0.64901
AE003852	268750	72.362	27.932	40.8	37.234	31.098	-0.5383	-1.88379	-0.94621	-1.1533	-1.33316
AE003852	269250	75.036	27.176	45.81	29.036	47.284	-0.2814	-1.98758	-0.29037	-2.2864	1.314924
AE003852	269750	69.266	29.958	44.26	37.392	44.146	-0.83198	-1.60125	-0.49188	-1.12944	0.803124
AE003852	270250	73.058	31.138	42.824	38.592	48.678	-0.46818	-1.43684	-0.67849	-0.96243	1.545532
AE003852	270750	68.338	34.486	41.87	39.032	41.784	-0.91835	-0.97211	-0.80211	-0.90056	0.419546
AE003852	271250	84.218	37.93	46.956	32.662	40.28	0.601402	-0.49407	-0.13633	-1.78077	0.17494
AE003852	271750	79.404	46.64	56.964	46.946	33.4	0.142239	0.71346	1.172734	0.196249	-0.94876
AE003852	272250	98.454	48.002	49.136	48.382	22.868	1.965131	0.903078	0.150719	0.395905	-2.66963
AE003852	272750	80.892	49.014	46.9	45.984	39.796	0.286909	1.044211	-0.14045	0.065173	0.099784
AE003852	273250	76.898	58.992	44.734	39.776	46.108	-0.09384	2.427397	-0.42247	-0.79263	1.13326
AE003852	273750	83.986	44.122	48.57	43.128	42.162	0.585156	0.36841	0.079942	-0.32792	0.489335
AE003852	274250	68.154	54.778	61.278	43.928	31.458	-0.92763	1.845519	1.74188	-0.21624	-1.25967
AE003852	274750	93.72	44.206	68.398	49.508	33.71	1.51837	0.38193	2.673494	0.556686	-0.89009
AE003852	275250	110.15	29.47	59.234	41.644	44.116	3.090718	-1.65849	1.47687	-0.5302	0.812844

AE003852	275750	112.992	33.56	64.158	52.362	44.568	3.36368	-1.09097	2.121478	0.953507	0.888085
AE003852	276250	96.566	23.65	57.022	46.426	27.228	1.79409	-2.46285	1.189903	0.133335	-1.94604
AE003852	276750	97.81	33.638	52.366	57.332	29.642	1.914239	-1.07828	0.582453	1.643052	-1.54997
AE003852	277250	112.042	30.16	56.54	46.834	40.056	3.276397	-1.55914	1.129039	0.191781	0.154266
AE003852	277750	98.262	31.168	42.84	50.95	36.964	1.959838	-1.41856	-0.66042	0.762183	-0.35001
AE003852	278250	73.106	46.958	47.294	39.732	21.794	-0.44458	0.769754	-0.07724	-0.78869	-2.8293
AE003852	278750	60.766	41.072	50.678	48.4	22.822	-1.62343	-0.04469	0.366101	0.411426	-2.65987
AE003852	279250	57.614	39.158	52.644	37.106	37.484	-1.92366	-0.30889	0.624113	-1.14996	-0.26099
AE003852	279750	65.056	38.622	41.018	26.606	41.388	-1.21082	-0.3822	-0.89428	-2.60151	0.378725
AE003852	280250	74.7	44.266	46.516	37.262	36.706	-0.2874	0.4006	-0.17466	-1.12638	-0.38555
AE003852	280750	81.254	40.298	46.688	51.034	37.822	0.340534	-0.14814	-0.15111	0.779818	-0.20173
AE003852	281250	92.372	47.244	47.24	49.902	42.242	1.404909	0.815023	-0.0779	0.624222	0.522361
AE003852	281750	79.884	38.312	58.146	52.216	51.572	0.2119	-0.42138	1.348525	0.945338	2.049343
AE003852	282250	73.028	37.07	55.122	46.976	47.91	-0.44253	-0.59249	0.954368	0.221449	1.451858
AE003852	282750	80.724	45.226	49.03	47.92	28.338	0.294603	0.538296	0.15924	0.353043	-1.74725
AE003852	283250	83.512	43.464	50.136	50.048	44.064	0.562401	0.295149	0.304854	0.648429	0.825615
AE003852	283750	90.192	44.606	56.8	49.502	43.886	1.202381	0.454291	1.176871	0.573898	0.797837
AE003852	284250	82.058	36.876	50.252	46.38	29.57	0.425734	-0.6156	0.322145	0.143009	-1.5418
AE003852	284750	71.288	35.244	61.392	41.02	26.66	-0.60299	-0.84074	1.779153	-0.59748	-2.01632
AE003852	285250	76.91	43.882	57.838	42.536	32.14	-0.06418	0.356821	1.315729	-0.38676	-1.11889
AE003852	285750	81.798	44.844	48.374	45.52	33.918	0.404435	0.491028	0.079896	0.027046	-0.82682
AE003852	286250	83.384	44.45	52.448	39.124	34.714	0.557289	0.437389	0.613413	-0.85676	-0.69533
AE003852	286750	87.158	43.658	51.28	46.332	40.214	0.919375	0.328616	0.461827	0.141381	0.205365
AE003852	287250	73.78	51.996	51.592	29.864	38.1	-0.35874	1.484614	0.503669	-2.13577	-0.13899
AE003852	287750	83.938	43.554	45.304	36.154	38.312	0.61383	0.316092	-0.31708	-1.26462	-0.10299
AE003852	288250	85.258	40.834	45.63	42.828	33.374	0.741246	-0.05977	-0.2734	-0.34035	-0.90913
AE003852	288750	78.298	35.56	42.184	46.068	32.742	0.076867	-0.78943	-0.72271	0.108869	-1.01115
AE003852	289250	76.06	34.246	49.66	46.118	32.072	-0.13596	-0.97051	0.255428	0.116788	-1.11938
AE003852	289750	80.762	47.944	47.476	57.952	38.938	0.314869	0.928002	-0.02894	1.754884	0.00469
AE003852	290250	76.492	40.434	38.678	48.74	36.334	-0.09227	-0.11141	-1.17773	0.481516	-0.41979
AE003852	290750	80.902	42.11	48.572	43.196	29.6	0.330633	0.121706	0.116429	-0.28443	-1.51961
AE003852	291250	78.034	32.182	42.82	33.394	45.298	0.057561	-1.25267	-0.63426	-1.63942	1.048674
AE003852	291750	73.548	43.18	49.764	34.07	52.39	-0.37024	0.271815	0.274348	-1.5449	2.209696
AE003852	292250	73.308	35.55	56.602	39.002	52.322	-0.392	-0.78422	1.169106	-0.86161	2.199906
AE003852	292750	69.706	32.878	45.03	42.078	30.922	-0.73526	-1.15343	-0.34223	-0.43508	-1.29812
AE003852	293250	64.928	38.306	48.538	63.078	30.334	-1.19098	-0.40055	0.117312	2.471021	-1.39294
AE003852	293750	76.522	30.332	47.132	58.152	29.75	-0.08109	-1.50424	-0.06538	1.79057	-1.48711

AE003852	294250	62.724	31.396	39.822	37.922	33.446	-1.39937	-1.3559	-1.01969	-1.00701	-0.8814
AE003852	294750	77.78	38.314	62.258	52.472	55.568	0.041588	-0.39662	1.913645	1.006815	2.737344
AE003852	295250	76.514	35.742	40.526	47.202	41.57	-0.07829	-0.75197	-0.92555	0.278776	0.449703
AE003852	295750	75.952	34.102	35.934	55.772	36.408	-0.13084	-0.97822	-1.52464	1.465335	-0.39306
AE003852	296250	68.884	35.334	49.89	47.12	36.998	-0.80555	-0.80661	0.300405	0.269437	-0.29526
AE003852	296750	59.998	27.636	47.494	50.318	53.53	-1.65411	-1.87207	-0.01168	0.712844	2.409406
AE003852	297250	67.92	32.498	39.364	50.53	39.08	-0.89536	-1.1976	-1.07316	0.743174	0.047854
AE003852	297750	89.222	39.668	37.114	62.538	42.61	1.142886	-0.2034	-1.36616	2.40534	0.626413
AE003852	298250	78.882	35.948	36.904	51.85	45.892	0.155286	-0.71779	-1.39254	0.927785	1.16442
AE003852	298750	82.85	50.78	45.592	45.406	38.12	0.535923	1.337821	-0.256	0.037337	-0.10514
AE003852	299250	90.494	43.55	36.252	48.928	40.006	1.268088	0.337196	-1.47562	0.525566	0.204593
AE003852	299750	91.904	48.946	35.49	41.104	36.706	1.404111	1.085641	-1.57415	-0.55579	-0.3337
AE003852	300250	79.328	42.884	38.084	50.574	38.388	0.202687	0.246819	-1.23406	0.755275	-0.05733
AE003852	300750	68.11	41.306	58.84	49.21	42.372	-0.86887	0.029162	1.479714	0.567585	0.595473
AE003852	301250	69.53	36.496	55.904	52.494	31.418	-0.73189	-0.63622	1.097059	1.022889	-1.19441
AE003852	301750	71.458	34.064	55.236	56.246	34.37	-0.54634	-0.97218	1.01082	1.542936	-0.71037
AE003852	302250	72.582	39.904	49.54	45.428	39.62	-0.43766	-0.16223	0.267447	0.047397	0.149451
AE003852	302750	76.988	40.086	50.74	37.192	48.682	-0.01514	-0.13608	0.425347	-1.09095	1.63261
AE003852	303250	70.466	44.866	43.7	48.332	49.192	-0.63764	0.527034	-0.49368	0.451136	1.717336
AE003852	303750	64.426	39.172	52.356	47.704	49.306	-1.21404	-0.26081	0.638681	0.365262	1.737307
AE003852	304250	74.472	44.664	47.546	43.174	52.12	-0.25218	0.500934	0.011103	-0.26041	2.198785
AE003852	304750	71.272	31.646	43.512	35.868	29.392	-0.557	-1.3015	-0.51506	-1.2701	-1.5164
AE003852	305250	65.164	38.014	38.232	39.994	30.972	-1.1399	-0.4184	-1.20406	-0.69832	-1.2567
AE003852	305750	77.548	45.7	52.902	48.314	36.416	0.045538	0.647276	0.714302	0.453658	-0.36516
AE003852	306250	83.16	61.806	63.752	51.146	38.332	0.583388	2.879368	2.133408	0.846433	-0.05053
AE003852	306750	67.282	41.906	53.116	47.376	35.236	-0.9338	0.123579	0.744402	0.325901	-0.55546
AE003852	307250	81.348	51.706	47.446	42.932	47.324	0.412487	1.482107	0.004426	-0.28787	1.422515
AE003852	307750	85.434	59.178	45.176	49	53.428	0.804409	2.518139	-0.29119	0.552567	2.421978
AE003852	308250	87.922	74.3	66.418	43.982	41.702	1.043518	4.613919	2.486103	-0.14061	0.505858
AE003852	308750	79.182	47.786	54.728	59.316	44.716	0.208922	0.941898	0.959344	1.981667	1.00004
AE003852	309250	83.53	34.364	47.684	43.63	43.696	0.625898	-0.9165	0.039793	-0.1873	0.834578
AE003852	309750	82.798	36.18	41.86	33.09	37.838	0.557087	-0.66399	-0.72031	-1.64438	-0.122
AE003852	310250	98.322	43.778	35.79	45.074	43.754	2.042796	0.389498	-1.51256	0.014464	0.846722
AE003852	310750	93.704	47.592	32.986	47.556	60.176	1.602376	0.91879	-1.87797	0.358821	3.533397
AE003852	311250	80.358	48.448	46.204	37.864	45.47	0.32732	1.038312	-0.14937	-0.98095	1.129983
AE003852	311750	73.724	45.8	43.17	32.788	34.514	-0.30589	0.672429	-0.54484	-1.68215	-0.66023
AE003852	312250	68.818	45.512	44.004	43.638	38.3	-0.77385	0.633474	-0.43477	-0.18018	-0.0398

AE003852	312750	64.086	40.626	38.17	42.492	31.378	-1.22517	-0.04244	-1.19618	-0.33771	-1.17037
AE003852	313250	61.804	30.242	37.718	37.312	39.998	-1.4422	-1.47998	-1.25419	-1.0533	0.240513
AE003852	313750	61.63	43.9	46.74	51.914	38.92	-1.45765	0.41299	-0.07399	0.967713	0.065567
AE003852	314250	64.348	35.926	51.412	54.908	44.788	-1.19655	-0.6907	0.537679	1.382899	1.026439
AE003852	314750	67.46	44.452	44.708	47.422	48.644	-0.89777	0.491341	-0.33743	0.348303	1.658307
AE003852	315250	73.802	47.022	38	57.41	37.504	-0.29011	0.848303	-1.21307	1.731026	-0.16199
AE003852	315750	85.48	46.984	46.718	56.546	38.892	0.827816	0.843981	-0.07261	1.612504	0.066307
AE003852	316250	67.994	52.926	52.78	45.536	42.758	-0.84314	1.668063	0.720732	0.090404	0.69981
AE003852	316750	70.442	40.498	56.08	38.334	43.784	-0.60785	-0.05264	1.153091	-0.9049	0.868912
AE003852	317250	67.964	36.148	63.026	44.696	42.264	-0.84363	-0.6543	2.061964	-0.02379	0.621689
AE003852	317750	88.33	42.444	61.456	51.324	39.496	1.105106	0.218825	1.857838	0.894112	0.170392
AE003852	318250	99.49	42.256	43.2	53.836	25.93	2.173497	0.193723	-0.52706	1.24262	-2.04661
AE003852	318750	91.398	51.416	45.522	57.466	31.842	1.400867	1.463592	-0.22253	1.74579	-1.07854
AE003852	319250	77.146	51.5	41.286	48.078	45.896	0.039172	1.47617	-0.77508	0.448074	1.220917
AE003852	319750	70.252	45.156	46.194	52.406	33.644	-0.6189	0.598282	-0.13257	1.047804	-0.78122
AE003852	320250	80.644	35.546	44.916	51.748	36.132	0.376053	-0.73204	-0.29853	0.95778	-0.37305
AE003852	320750	90.756	44.186	58.808	37.088	44.6	1.344226	0.465793	1.518151	-1.06925	1.012982
AE003852	321250	71.346	43.424	46.402	35.126	49.238	-0.51072	0.361175	-0.10219	-1.33967	1.772723
AE003852	321750	89.156	39.41	42.746	51.408	45.294	1.193598	-0.19394	-0.57894	0.913752	1.129125
AE003852	322250	93.636	51.866	38.284	37.948	34.27	1.623198	1.532522	-1.16104	-0.94728	-0.6722
AE003852	322750	75.458	45.778	44.802	38.566	44.194	-0.11393	0.690098	-0.3081	-0.86078	0.951911
AE003852	323250	84.614	50.83	52.888	46.716	45.466	0.762822	1.390889	0.749763	0.267677	1.16124
AE003852	323750	82.478	40.568	52.072	31.6	31.258	0.55975	-0.02976	0.644182	-1.82244	-1.16074
AE003852	324250	91.252	31.368	64.568	45.94	35.968	1.399974	-1.30328	2.278412	0.162331	-0.38923
AE003852	324750	85.96	44.812	63.008	55.76	30.668	0.895101	0.560045	2.075593	1.521813	-1.25456
AE003852	325250	97.49	38.178	38.16	43.908	17.996	1.998874	-0.35802	-1.17085	-0.11677	-3.32537
AE003852	325750	199.81	109.588	90.264	112.614	61.038	11.78467	9.535295	5.639948	9.388892	3.71424
AE003852	326250	98.732	47.064	38.014	35.794	30.668	2.120019	0.874838	-1.1878	-1.23724	-1.25057
AE003852	326750	20.446	9.888	6.46	5.312	1.88	-5.36509	-4.27418	-5.31069	-5.45306	-5.95669
AE003852	327250	8.748	4.422	3.448	1.442	0.196	-6.48255	-5.03044	-5.70328	-5.98742	-6.23073
AE003852	327750	6.548	4.182	5.618	2.232	1.606	-6.69174	-5.06275	-5.4186	-5.87713	-5.99884
AE003852	328250	24.68	14.282	19.484	14.428	8.698	-4.95664	-3.66266	-3.60532	-4.18896	-4.83781
AE003852	328750	74.794	30.564	44.316	42.702	27.23	-0.16317	-1.40619	-0.35883	-0.27659	-1.80611
AE003852	329250	61.56	33.472	31.24	21.206	15.072	-1.42752	-1.0024	-2.06674	-3.2493	-3.79287
AE003852	329750	74.51	38.652	35.534	34.282	27.824	-0.18795	-0.28388	-1.50447	-1.43939	-1.70632
AE003852	330250	74.302	39.916	49.284	53.436	37.7	-0.20666	-0.10784	0.293655	1.211342	-0.09005
AE003852	330750	78.904	41.904	70.568	68.778	35.226	0.234609	0.168502	3.076433	3.334727	-0.49327

AE003852	331250	82.238	36.442	51.408	62.99	33.712	0.554619	-0.5872	0.573382	2.535029	-0.73952
AE003852	331750	79.934	48.894	44.138	53.226	48.802	0.335481	1.138705	-0.37571	1.185298	1.72935
AE003852	332250	74.728	44.858	44.454	55.572	44.252	-0.16117	0.580543	-0.33334	1.510842	0.986658
AE003852	332750	90.922	45.052	56.63	62.284	40.126	1.388612	0.608359	1.259068	2.440369	0.313298
AE003852	333250	84.422	42.94	45.706	47.016	35.99	0.768222	0.316727	-0.16758	0.329226	-0.3617
AE003852	333750	90.386	31.558	51.678	48.414	30.294	1.339732	-1.25907	0.613997	0.523625	-1.29178
AE003852	334250	79.312	33.49	49.316	51.472	35.54	0.281941	-0.99049	0.306361	0.947665	-0.43262
AE003852	334750	56.96	38.242	38.248	41.154	40.584	-1.85434	-0.33126	-1.13911	-0.47871	0.39351
AE003852	335250	69.542	35.062	40.822	35.542	42.376	-0.64996	-0.77084	-0.80163	-1.25406	0.687869
AE003852	335750	66.634	24.128	43.972	34.384	32.944	-0.92686	-2.28458	-0.38888	-1.41325	-0.85313
AE003852	336250	73.048	34.3	54.024	53.126	47.054	-0.31232	-0.87452	0.925935	1.180486	1.455481
AE003852	336750	69.706	41.592	56.322	51.3	44.18	-0.63072	0.136581	1.227337	0.928883	0.98685
AE003852	337250	69.48	43.396	54.146	41.496	40.572	-0.65114	0.38743	0.944011	-0.42638	0.398195
AE003852	337750	79.5	40.648	48.158	52.774	37.74	0.308235	0.007693	0.162474	1.134798	-0.06357
AE003852	338250	89.71	47.304	50.684	62.462	43.144	1.28578	0.930685	0.493675	2.47602	0.821431
AE003852	338750	67.816	45.604	54.114	58.344	36.622	-0.8067	0.696127	0.943025	1.907346	-0.24372
AE003852	339250	88.508	62.964	50.744	62.698	38.334	1.173212	3.101935	0.503648	2.510672	0.037553
AE003852	339750	103.598	61.2	55.376	55.438	42.404	2.617419	2.858511	1.110093	1.50734	0.704414
AE003852	340250	113.04	60.388	53.742	64.44	46.814	3.521521	2.746967	0.897602	2.753662	1.426873
AE003852	340750	121.37	47.36	57.154	56.048	42.84	4.319286	0.943151	1.344599	1.593731	0.778369
AE003852	341250	104.182	49.798	57.49	46.746	39.476	2.676829	1.281827	1.389578	0.307913	0.229613
AE003852	341750	88.094	57.51	62.084	57.616	40.628	1.139562	2.351105	1.991057	1.81265	0.419319
AE003852	342250	80.552	56.838	69.374	63.328	43.246	0.419527	2.258956	2.944889	2.603839	0.848747
AE003852	342750	88.214	41.284	61.152	53.97	31.46	1.153413	0.105214	1.87138	1.310274	-1.07718
AE003852	343250	90.6	42.376	52.204	51.29	36.58	1.382768	0.25743	0.702986	0.94053	-0.23863
AE003852	343750	89.766	54.806	43.45	64.514	34.948	1.304203	1.980289	-0.44005	2.770915	-0.50416
AE003852	344250	94.94	67.814	53.996	53.91	42.468	1.800168	3.783219	0.939323	1.304981	0.726846
AE003852	344750	91.632	54.326	54.916	49.828	40.26	1.48502	1.915679	1.060628	0.741287	0.367121
AE003852	345250	83.816	37.75	47.898	52.056	36.132	0.738783	-0.37964	0.144475	1.050507	-0.30657
AE003852	345750	88.718	38.914	33.39	42.378	34.07	1.208737	-0.21745	-1.75058	-0.28733	-0.64242
AE003852	346250	94.254	38.834	48.472	37.718	46.204	1.739319	-0.22759	0.221625	-0.93098	1.34308
AE003852	346750	99.94	43.858	59.238	41.812	55.802	2.284245	0.469322	1.629753	-0.36362	2.913886
AE003852	347250	96.72	39.118	47.544	41.908	46.99	1.977513	-0.18636	0.102471	-0.34934	1.474267
AE003852	347750	78.6	40.896	54.16	48.48	46.274	0.24593	0.060882	0.968215	0.560822	1.358515
AE003852	348250	74.492	30.754	47.582	44.254	34.606	-0.14572	-1.34314	0.109568	-0.02279	-0.54812
AE003852	348750	81.874	37.466	43.29	40.708	42.28	0.561391	-0.41239	-0.45031	-0.51234	0.70807
AE003852	349250	83.76	31.866	51.926	35.004	40	0.742932	-1.18721	0.679439	-1.30042	0.336572

AE003852	349750	68.7	25.246	58.68	49.806	36.066	-0.69603	-2.10333	1.563218	0.748268	-0.30539
AE003852	350250	78.496	37.48	48.05	36.38	26.938	0.241925	-0.40763	0.174996	-1.10806	-1.79668
AE003852	350750	85.924	46.914	63.42	34.37	43.956	0.953434	0.9002	2.184844	-1.38511	0.987451
AE003852	351250	84.998	44.658	45.706	37.828	36.324	0.866071	0.58862	-0.12922	-0.90574	-0.25921
AE003852	351750	70.84	38.83	40.8	45.722	31.874	-0.48664	-0.21779	-0.76935	0.187304	-0.98555
AE003852	352250	77.434	51.044	57.804	69.39	33.452	0.145121	1.475151	1.454057	3.462492	-0.72619
AE003852	352750	89.058	47.78	57.598	66.922	35.432	1.257883	1.023933	1.428199	3.122076	-0.40109
AE003852	353250	75.54	38.702	43.73	52.726	35.228	-0.03362	-0.23269	-0.38321	1.159231	-0.43311
AE003852	353750	76.852	34.81	34.948	43.694	42.68	0.093029	-0.77091	-1.52991	-0.08924	0.786775
AE003852	354250	80.394	47.332	57.746	47.862	49.038	0.43293	0.964697	1.450738	0.48836	1.827773
AE003852	354750	77.75	63.102	52.908	53.978	47.826	0.181279	3.150244	0.819501	1.335438	1.630915
AE003852	355250	77.736	48.152	50.596	51.49	52.538	0.181128	1.080174	0.5184	0.992255	2.402756
AE003852	355750	87.704	45.506	55.086	48.93	52.58	1.135531	0.714568	1.106286	0.639112	2.410954
AE003852	356250	85.538	34.962	53.188	65.188	38.94	0.92959	-0.74514	0.859292	2.889215	0.181854
AE003852	356750	73.604	47.072	37.29	47.594	40.066	-0.21044	0.933388	-1.21743	0.456297	0.367308
AE003852	357250	77.602	38.55	37.658	49.112	38.458	0.173066	-0.24622	-1.16827	0.667297	0.105695
AE003852	357750	61.516	41.148	41.414	50.246	36.23	-1.36401	0.114624	-0.67631	0.825174	-0.2573
AE003852	358250	44.036	56.748	45.142	41.382	33.966	-3.03439	2.276621	-0.18802	-0.40005	-0.62618
AE003852	358750	48.082	40.786	39.228	33.554	31.108	-2.64629	0.06636	-0.95988	-1.48196	-1.0922
AE003852	359250	77.204	35.582	45.4	32.606	35.334	0.139758	-0.6536	-0.15217	-1.6121	-0.39983
AE003852	359750	93.538	48.762	44.656	45.372	35.998	1.702926	1.173152	-0.24834	0.154924	-0.28992
AE003852	360250	89.686	49.618	50.89	50.348	32.524	1.335757	1.292675	0.567479	0.844297	-0.85666
AE003852	360750	70.632	48.702	63.78	56.088	32.83	-0.48514	1.166724	2.253203	1.63936	-0.80529
AE003852	361250	54.882	50.656	45.234	41.868	38.134	-1.99009	1.438351	-0.1696	-0.32681	0.063351
AE003852	361750	62.364	44.262	47.434	38	43.762	-1.27341	0.553538	0.118993	-0.86089	0.984979
AE003852	362250	73.638	27.002	35.75	40.668	48.668	-0.19412	-1.83653	-1.40698	-0.49081	1.788543
AE003852	362750	64.71	41.088	38.968	49.742	31.916	-1.0467	0.115729	-0.98534	0.765476	-0.94943
AE003852	363250	65.922	42.996	52.592	45.892	32.768	-0.92961	0.380985	0.796314	0.233877	-0.80879
AE003852	363750	55.57	39.702	52.088	49.292	30.896	-1.91835	-0.07439	0.73151	0.705228	-1.11357
AE003852	364250	58.238	38.702	48.156	38.092	33.424	-1.66203	-0.21198	0.218682	-0.84316	-0.69886
AE003852	364750	69.39	35.44	48.732	27.89	33.482	-0.59441	-0.66292	0.295028	-2.25348	-0.68804
AE003852	365250	91.962	46.578	51.102	49.738	29.946	1.565285	0.880963	0.605841	0.769934	-1.26492
AE003852	365750	89.774	36.086	42.394	33.224	37.612	1.35724	-0.57154	-0.53119	-1.51358	-0.01004
AE003852	366250	73.114	39.956	46.172	45.91	32.706	-0.23473	-0.03449	-0.03635	0.242381	-0.81095
AE003852	366750	77.598	57.618	47.342	47.884	24.298	0.195256	2.41315	0.117624	0.516463	-2.1845
AE003852	367250	61.358	49.526	57.306	47.782	29.814	-1.35655	1.293114	1.420934	0.503355	-1.28119
AE003852	367750	49.366	43.04	43.558	44.454	33.276	-2.50212	0.395555	-0.3748	0.043968	-0.71375

AE003852	368250	60.428	38.554	36.504	37.192	40.738	-1.4431	-0.22495	-1.29565	-0.95964	0.507775
AE003852	368750	67.582	35.324	45.782	37.57	41.25	-0.7578	-0.67145	-0.082	-0.90635	0.592828
AE003852	369250	72.648	24.714	47.224	39.854	34.52	-0.27216	-2.14031	0.107529	-0.58938	-0.50634
AE003852	369750	78.436	40.94	48.192	45.43	35.864	0.282519	0.10841	0.235107	0.182995	-0.28524
AE003852	370250	82.778	38.796	67.988	50.274	28.092	0.698922	-0.18765	2.823411	0.854107	-1.5548
AE003852	370750	95.222	53.124	65.362	46.328	33.3	1.890099	1.798133	2.481272	0.309228	-0.70185
AE003852	371250	94.764	56.666	53.446	39.908	36.814	1.847489	2.289745	0.924975	-0.5779	-0.1259
AE003852	371750	112.786	43.78	49.926	40.472	29.928	3.572076	0.5056	0.465994	-0.49888	-1.25058
AE003852	372250	91.534	43.52	43.436	51.13	43.094	1.540988	0.470524	-0.38115	0.976534	0.903668
AE003852	372750	77.644	54.8	58.008	46.676	50.906	0.21391	2.034075	1.524402	0.361379	2.182426
AE003852	373250	79.452	60.902	48.682	49.418	41.206	0.387993	2.880322	0.306606	0.741704	0.597599
AE003852	373750	92.574	58.134	49.082	58.782	39.274	1.644005	2.497814	0.359949	2.038104	0.283006
AE003852	374250	78.832	46.786	41.33	53.188	39.802	0.33108	0.926727	-0.65213	1.265244	0.370674
AE003852	374750	82.762	43.798	58.994	49.804	50.506	0.708084	0.513743	1.65753	0.79811	2.122336
AE003852	375250	85.74	45.494	55.284	41.108	57.52	0.994051	0.749631	1.173716	-0.40388	3.270603
AE003852	375750	80.802	40.536	45.668	34.058	48.91	0.52303	0.063744	-0.08198	-1.37816	1.864015
AE003852	376250	91.186	38.128	52.542	36.44	42.46	1.517214	-0.26889	0.817482	-1.04763	0.810632
AE003852	376750	103.496	39.302	55.278	37.288	38.52	2.695576	-0.10532	1.176129	-0.92932	0.167688
AE003852	377250	84.196	50.118	55.444	39.306	37.126	0.851154	1.393956	1.198889	-0.64915	-0.05893
AE003852	377750	81.088	51.228	63.908	48.546	36.804	0.555131	1.548665	2.306158	0.630095	-0.11026
AE003852	378250	83.294	45.96	55.316	53.194	37.252	0.767274	0.819835	1.184291	1.274093	-0.03567
AE003852	378750	75.81	57.498	48.268	51.114	35.874	0.052786	2.419127	0.264218	0.987352	-0.25967
AE003852	379250	73.074	59.174	59.446	53.876	33.614	-0.20766	2.652243	1.726193	1.370444	-0.6279
AE003852	379750	75.672	48.876	62.816	60.57	42.842	0.041965	1.226611	2.167701	2.297482	0.882405
AE003852	380250	76.98	43.47	52.72	43.106	40.438	0.168234	0.478664	0.849269	-0.11745	0.490629
AE003852	380750	56.538	47.182	43.854	44.618	37.946	-1.7854	0.993826	-0.30841	0.092717	0.084464
AE003852	381250	57.63	37.686	69.73	46.204	27.666	-1.67978	-0.32071	3.074522	0.313124	-1.5952
AE003852	381750	75.334	41.364	63.022	51.018	36.578	0.014395	0.189747	2.198886	0.980086	-0.13657
AE003852	382250	80.832	53.838	56.496	54.79	49.408	0.541343	1.918701	1.347035	1.502899	1.962733
AE003852	382750	66.696	38.964	44.074	51.102	36.986	-0.80926	-0.14084	-0.27539	0.993711	-0.0672
AE003852	383250	68.4	32.68	39.766	53.668	37.828	-0.64512	-1.01042	-0.83736	1.349689	0.071816
AE003852	383750	68.04	34.432	42.642	53.762	36.576	-0.67836	-0.76677	-0.46042	1.363695	-0.13158
AE003852	384250	90.784	30.764	46.484	41.136	34.002	1.49778	-1.27395	0.042778	-0.38196	-0.55116
AE003852	384750	90.668	36.86	51.882	43.17	40.158	1.487875	-0.42854	0.749336	-0.09958	0.45681
AE003852	385250	89.572	51.698	62.018	41.776	44.974	1.384255	1.627899	2.075126	-0.29142	1.245658
AE003852	385750	67.366	47.294	51.42	45.482	44.382	-0.73806	1.018758	0.691085	0.222265	1.150183
AE003852	386250	65.276	23.172	51.742	47.082	34.556	-0.93673	-2.3219	0.734235	0.444608	-0.45525

AE003852	386750	71.34	22.284	32.804	42.706	42.102	-0.35566	-2.44397	-1.7398	-0.15976	0.780013
AE003852	387250	83.158	41.392	61.49	50.368	52.814	0.775652	0.203984	2.010381	0.901192	2.532983
AE003852	387750	80.856	41.806	59.938	48.398	41.386	0.556706	0.262277	1.808608	0.629669	0.665591
AE003852	388250	65.772	46.694	49.456	60.232	40.756	-0.88455	0.940349	0.439728	2.267764	0.563903
AE003852	388750	82.814	42.96	45.134	43.726	40.59	0.74632	0.424023	-0.12407	-0.01464	0.538088
AE003852	389250	102.816	41.762	40.886	36.186	35.452	2.66025	0.259006	-0.6782	-1.05671	-0.30075
AE003852	389750	88.496	39.914	45.264	42.662	37.668	1.292052	0.003946	-0.10495	-0.15983	0.062938
AE003852	390250	79.408	41.582	46.032	49.834	45.014	0.424177	0.235954	-0.00351	0.833334	1.265494
AE003852	390750	83.39	32.142	51.284	49.024	39.59	0.806154	-1.07082	0.683966	0.722282	0.379885
AE003852	391250	72.826	26.77	54.61	55.468	31.036	-0.20287	-1.81406	1.119723	1.614735	-1.01755
AE003852	391750	82.612	45.95	52.162	51.742	42.53	0.734132	0.843875	0.800847	1.10029	0.863296
AE003852	392250	94.04	37.692	43.092	48.648	46.064	1.828151	-0.29916	-0.38349	0.673274	1.44251
AE003852	392750	79.51	59.048	49.268	32.824	33.888	0.439871	2.660214	0.424746	-1.51478	-0.54719
AE003852	393250	86.742	42.712	48.708	26.758	43.046	1.132637	0.398142	0.352622	-2.35294	0.951662
AE003852	393750	96.51	42.232	44.734	37.582	32.748	2.067915	0.33259	-0.16569	-0.85457	-0.73095
AE003852	394250	93.932	41.562	45.33	47.46	39.578	1.822575	0.240717	-0.08673	0.512938	0.38723
AE003852	394750	80.682	36.08	45.138	37.336	37.222	0.556699	-0.51776	-0.11076	-0.88659	0.003303
AE003852	395250	67.38	43.136	46.602	27.798	41.202	-0.71415	0.460645	0.081641	-2.20506	0.655447
AE003852	395750	66.45	37.236	41.79	46.352	51.788	-0.8019	-0.35574	-0.5462	0.362667	2.387813
AE003852	396250	67.336	38.148	42.678	43.692	52.168	-0.71598	-0.22845	-0.42908	-0.00431	2.451281
AE003852	396750	76.352	33.624	51.272	35.712	51.02	0.147384	-0.85422	0.695183	-1.10725	2.264888
AE003852	397250	80.7	28.194	52.902	36.434	36.036	0.56436	-1.60549	0.909281	-1.00636	-0.18398
AE003852	397750	79.234	38.88	53.284	40.77	50.188	0.425358	-0.12423	0.960272	-0.40553	2.131497
AE003852	398250	69.838	41.428	60.736	51.244	40.916	-0.47197	0.229688	1.935277	1.044429	0.616658
AE003852	398750	90.728	42.334	61.134	44.644	44.108	1.526876	0.356137	1.988359	0.1324	1.139947
AE003852	399250	92.3	41.596	48.568	43.936	44.514	1.678391	0.254844	0.347111	0.035459	1.207667
AE003852	399750	83.69	46.146	44.592	35.682	45.254	0.856226	0.886093	-0.17147	-1.10538	1.330002
AE003852	400250	74.274	36.784	42.61	44.104	36.186	-0.04301	-0.40988	-0.42944	0.060704	-0.15148
AE003852	400750	83.338	37.534	63.708	49.1	41.734	0.824941	-0.30504	2.32903	0.752844	0.757066
AE003852	401250	77.26	44.056	63.452	42.224	38.964	0.244905	0.599392	2.296637	-0.19737	0.305442
AE003852	401750	58.052	35.626	40.084	37.734	40.182	-1.59072	-0.56747	-0.75638	-0.8175	0.505941
AE003852	402250	12.518	6.664	7.996	4.798	5.628	-5.94383	-4.57861	-4.94906	-5.3728	-5.14304
AE003852	402750	10.358	2.958	4.612	1.812	0.49	-6.1492	-5.09106	-5.39026	-5.78488	-5.98189
AE003852	403250	15.152	6.15	4.918	4.366	2.974	-5.68958	-4.64793	-5.3492	-5.43056	-5.57437
AE003852	403750	37.534	19.296	22.76	27.662	12.514	-3.54805	-2.82588	-3.01628	-2.20683	-4.01305
AE003852	404250	118.332	64.756	87.978	94.184	52.39	4.179646	3.472596	5.508456	6.996695	2.508856
AE003852	404750	182.262	86.246	121.1	118.496	83.084	10.2943	6.45053	9.838403	10.36097	7.529307

AE003852	405250	146.72	62.91	88.894	82.204	52.57	6.896695	3.218755	5.630304	5.341409	2.540949
AE003852	405750	112.744	63.352	72.274	70.55	47.818	3.648843	3.280926	3.459218	3.730219	1.765226
AE003852	406250	95.918	49.462	64.662	44.192	31.924	2.041003	1.357698	2.465433	0.084907	-0.83245
AE003852	406750	67.762	37.936	57.752	31.138	28.302	-0.6503	-0.23805	1.563396	-1.71996	-1.4234
AE003852	407250	62.636	43.158	49.64	37.222	33.244	-1.1393	0.486293	0.504263	-0.87731	-0.61394
AE003852	407750	65.02	40.956	57.044	43.696	29.492	-0.91013	0.182194	1.472995	0.019298	-1.22615
AE003852	408250	78.686	37.076	51.594	46.094	33.882	0.397902	-0.35436	0.761772	0.352035	-0.50696
AE003852	408750	67.93	38.338	50.7	44.914	27	-0.62948	-0.17859	0.645996	0.189799	-1.63098
AE003852	409250	74.686	52.202	37.506	46.944	33.91	0.017768	1.742918	-1.07733	0.471627	-0.49972
AE003852	409750	78.126	55.458	50.692	40.486	30.032	0.347915	2.19491	0.647082	-0.42076	-1.13253
AE003852	410250	77.498	51.444	50.75	35.722	32.322	0.289049	1.639796	0.655727	-1.0788	-0.75673
AE003852	410750	70.114	34.916	41.454	47.282	39.262	-0.41588	-0.64887	-0.55815	0.521393	0.379434
AE003852	411250	91.502	36.546	54.828	43.002	36.768	1.630592	-0.42213	1.190833	-0.06969	-0.02706
AE003852	411750	82.274	35.994	48.848	39.068	32.328	0.74933	-0.49765	0.410342	-0.61291	-0.75176
AE003852	412250	73.702	35.71	47.642	43.804	35.666	-0.0692	-0.53606	0.253789	0.04326	-0.2046
AE003852	412750	63.974	37.504	36.888	35.772	43.584	-0.99828	-0.28659	-1.15064	-1.06687	1.091491
AE003852	413250	69.53	37.242	39.956	36.292	47.352	-0.46578	-0.32195	-0.7486	-0.99393	1.708969
AE003852	413750	66.834	44.416	56.778	39.108	45.686	-0.72241	0.672805	1.451015	-0.60337	1.437872
AE003852	414250	68.974	44.58	51.362	50.896	41.82	-0.51658	0.696465	0.744236	1.028363	0.807028
AE003852	414750	66.756	31.212	42.968	38.294	30.864	-0.72749	-1.15445	-0.35175	-0.71397	-0.98318
AE003852	415250	75.004	23.132	34.44	36.724	29.692	0.062434	-2.27283	-1.46525	-0.93016	-1.1735
AE003852	415750	60.886	34.33	41.5	43.934	39.94	-1.28645	-0.72063	-0.54148	0.068261	0.503597
AE003852	416250	60.738	44.498	27.484	49.446	32.136	-1.29941	0.688872	-2.37224	0.831783	-0.77119
AE003852	416750	71.824	45.468	51.614	43.324	32.626	-0.2381	0.824187	0.782499	-0.01412	-0.68974
AE003852	417250	67.338	44.624	42.662	40.706	37.114	-0.66589	0.70821	-0.38642	-0.37529	0.045475
AE003852	417750	70.734	45.676	47.184	40.104	35.628	-0.33996	0.854885	0.205651	-0.45756	-0.19619
AE003852	418250	78.07	29.588	48.182	50.41	47.61	0.362756	-1.37283	0.33715	0.96915	1.764453
AE003852	418750	68.252	32.258	49.406	45.346	38.87	-0.57493	-1.00202	0.498186	0.269608	0.336607
AE003852	419250	82.156	35.814	46.866	41.112	46.992	0.755865	-0.50847	0.167286	-0.31511	1.666056
AE003852	419750	74.708	32.086	37.406	40.374	50.61	0.04482	-1.02396	-1.06802	-0.4162	2.259006
AE003852	420250	74.9	40.772	50.886	40.53	52.452	0.064368	0.180246	0.694811	-0.39362	2.561542
AE003852	420750	74.368	35.712	40.79	28.25	38.942	0.014683	-0.51977	-0.62362	-2.09141	0.353699
AE003852	421250	92.184	51.14	33.212	35.99	48.838	1.71957	1.6184	-1.61296	-1.01967	1.973235
AE003852	421750	97.766	49.412	45.532	43.728	46.07	2.254551	1.379963	-0.00173	0.051792	1.521938
AE003852	422250	80.69	43.962	44.878	44.922	32.396	0.622804	0.625921	-0.08614	0.21797	-0.71272
AE003852	422750	74.714	30.96	33.72	42.594	19.45	0.052522	-1.17429	-1.54337	-0.10308	-2.82834
AE003852	423250	55.778	36.176	27.672	46.948	24.284	-1.75709	-0.45078	-2.33275	0.500247	-2.03655

AE003852	423750	61.75	35.32	28.634	46.34	28.294	-1.18482	-0.56842	-2.20596	0.41714	-1.3795
AE003852	424250	67.416	41.118	46.174	40.27	35.264	-0.6418	0.23571	0.0875	-0.42157	-0.23842
AE003852	424750	79.172	39.854	75.944	56.398	37.754	0.483581	0.061551	3.979356	1.810549	0.170073
AE003852	425250	78.406	34.418	52.742	53.064	37.224	0.411518	-0.69055	0.948036	1.350333	0.084736
AE003852	425750	73.238	33.386	48.044	54.872	39.378	-0.0815	-0.83257	0.335096	1.60145	0.43829
AE003852	426250	83.234	37.424	53.424	52.562	43.772	0.875584	-0.27225	1.039301	1.282892	1.158132
AE003852	426750	74.926	40.228	36.936	44.87	35.412	0.082299	0.117128	-1.11453	0.219798	-0.20758
AE003852	427250	85.886	36.114	45.026	40.636	35.108	1.131564	-0.45184	-0.05615	-0.36492	-0.25596
AE003852	427750	87.222	38.108	44.96	46.656	37.866	1.26051	-0.17467	-0.06371	0.468874	0.196365
AE003852	428250	76.6	43.356	55.32	64.584	48.938	0.245943	0.553272	1.29136	2.950002	2.008201
AE003852	428750	60.446	34.308	33.672	48.364	47.44	-1.29764	-0.6992	-1.53686	0.70716	1.764576
AE003852	429250	77.054	34.238	46.578	37.612	34.888	0.291734	-0.70795	0.150955	-0.77925	-0.28661
AE003852	429750	81.142	36.08	50.712	39.518	36.376	0.683847	-0.45184	0.692314	-0.51457	-0.04196
AE003852	430250	77.978	46.174	49.136	39.514	39.34	0.38247	0.947414	0.487404	-0.51412	0.444043
AE003852	430750	63.554	51.432	38.37	47.78	41.9	-0.99567	1.676742	-0.91859	0.63038	0.863987
AE003852	431250	66.876	43.672	40.1	47.24	47.58	-0.67681	0.602697	-0.69143	0.55668	1.794117
AE003852	431750	64.324	38.598	52.02	41.208	39.1	-0.91966	-0.09926	0.867525	-0.27677	0.408787
AE003852	432250	85.386	29.282	70.176	46.602	41.414	1.09563	-1.38885	3.241489	0.470425	0.788504
AE003852	432750	77.75	31.32	56.536	64.086	34.154	0.366607	-1.10559	1.459874	2.890131	-0.39733
AE003852	433250	64.962	34.872	46.926	51.43	45.278	-0.85509	-0.61259	0.204961	1.140326	1.42301
AE003852	433750	59.504	59.238	58.832	47.916	36.61	-1.37584	2.763751	1.762081	0.655209	0.006937
AE003852	434250	73.316	52.258	53.872	42.88	27.308	-0.05384	1.797759	1.114899	-0.04046	-1.51281
AE003852	434750	70.982	42.722	41.206	32.284	25.018	-0.27585	0.477686	-0.53942	-1.50529	-1.88594
AE003852	435250	79.686	31.28	51.144	44.056	41.472	0.557681	-1.10642	0.760494	0.124231	0.805966
AE003852	435750	92.724	34.596	48.93	47.648	33.554	1.805661	-0.64612	0.472201	0.622144	-0.48747
AE003852	436250	107.932	30.362	51.65	38.302	33.76	3.261152	-1.23171	0.828757	-0.66976	-0.45245
AE003852	436750	98.05	32.006	60.752	55.43	41.714	2.317349	-1.00303	2.019408	1.700695	0.849527
AE003852	437250	98.852	37.24	55.79	45.678	42.408	2.39523	-0.27702	1.371965	0.352625	0.964341
AE003852	437750	92.502	39.126	58.146	38.328	36.566	1.789183	-0.01481	1.680948	-0.66316	0.010379
AE003852	438250	85.006	34.906	51.874	48.608	44.44	1.073548	-0.59847	0.862294	0.75996	1.299275
AE003852	438750	80.798	39.626	40.422	56.718	33.608	0.672335	0.056333	-0.63336	1.882884	-0.47066
AE003852	439250	65.806	39.272	43.686	39.392	36.852	-0.76012	0.008235	-0.20571	-0.51296	0.061135
AE003852	439750	61.634	34.704	43.602	34.754	32.998	-1.15789	-0.62362	-0.21562	-1.15357	-0.56775
AE003852	440250	65.612	31.178	41.052	48.448	31.706	-0.7763	-1.11114	-0.54783	0.741835	-0.77769
AE003852	440750	74.97	31.97	40.904	45.378	34.816	0.11977	-1.00048	-0.5661	0.31814	-0.26781
AE003852	441250	81.986	43.904	53.762	40.738	39.124	0.791881	0.653669	1.115439	-0.32275	0.437974
AE003852	441750	71.178	51.094	44.57	53.648	49.654	-0.24047	1.650636	-0.08484	1.464201	2.161182

AE003852	442250	67.202	37.482	60.358	47.076	40.718	-0.6195	-0.23408	1.979635	0.556045	0.701286
AE003852	442750	69.476	44.226	54.958	37.162	43.658	-0.40086	0.701101	1.274947	-0.81444	1.183368
AE003852	443250	78.83	48.682	49.444	50.506	40.048	0.494832	1.319328	0.55536	1.03255	0.594386
AE003852	443750	81.608	31.274	40.954	48.55	41.624	0.761673	-1.09125	-0.55318	0.762963	0.853425
AE003852	444250	80.946	24.67	48.794	61.424	44.988	0.699556	-2.00515	0.472539	2.54493	1.40484
AE003852	444750	71.448	35.982	45.76	45.756	34.102	-0.20753	-0.43717	0.077076	0.378451	-0.37392
AE003852	445250	67.022	41.908	45.306	47.47	29.962	-0.62959	0.384698	0.018806	0.616565	-1.04957
AE003852	445750	72.988	40.134	60.282	40.612	33.638	-0.05788	0.139889	1.97716	-0.33116	-0.44714
AE003852	446250	72.084	38.878	50.412	55.538	34.086	-0.14314	-0.03316	0.688266	1.734681	-0.37255
AE003852	446750	66.676	36.004	51.514	47.84	32.128	-0.65911	-0.43035	0.833357	0.670757	-0.6914
AE003852	447250	81.452	44.674	58.954	41.55	38.258	0.755072	0.771637	1.806793	-0.19839	0.312319
AE003852	447750	91.604	36.764	50.626	32.23	34.69	1.72707	-0.32319	0.719431	-1.4867	-0.26979
AE003852	448250	77.66	30.852	47.894	32.684	37.174	0.394828	-1.14123	0.363437	-1.42289	0.137722
AE003852	448750	72.418	32.092	47.33	49.336	44.674	-0.10526	-0.96851	0.290791	0.88172	1.365461
AE003852	449250	90.322	40.062	37.446	46.786	37.944	1.608039	0.136507	-0.99993	0.52996	0.266292
AE003852	449750	73.844	31.152	45.342	34.646	38.07	0.033478	-1.09685	0.0331	-1.14846	0.288225
AE003852	450250	69.132	33.332	46.208	33.452	34.118	-0.41593	-0.79391	0.147347	-1.31263	-0.35668
AE003852	450750	77.98	36.622	46.106	39.588	30.08	0.431369	-0.33721	0.135082	-0.46279	-1.01565
AE003852	451250	67.582	41.074	40.176	39.296	33.294	-0.56178	0.280465	-0.63887	-0.50218	-0.48876
AE003852	451750	83.994	44.536	33.798	28.636	37.948	1.008849	0.760995	-1.47138	-1.97586	0.273594
AE003852	452250	86.334	43.482	42.558	37.934	36.716	1.233805	0.615927	-0.32543	-0.68859	0.073466
AE003852	452750	54.486	35.232	42.094	42.126	40.06	-1.81055	-0.526	-0.385	-0.10768	0.62161
AE003852	453250	67.124	28.976	42.624	28.518	43.064	-0.60082	-1.39169	-0.31467	-1.98918	1.114158
AE003852	453750	64.206	41.252	43.072	31.206	44.456	-0.87868	0.309832	-0.25505	-1.61633	1.343109
AE003852	454250	56.886	38.124	45.476	45.032	32.07	-1.57748	-0.12255	0.060202	0.297339	-0.68094
AE003852	454750	56.468	40.95	39.448	52.522	28.14	-1.61627	0.269879	-0.72656	1.334494	-1.32224
AE003852	455250	67.152	42.576	41.838	44.878	29.536	-0.59339	0.496069	-0.41314	0.27804	-1.09264
AE003852	455750	63.058	39.116	46.776	30.212	34.416	-0.9837	0.0177	0.233302	-1.74982	-0.29333
AE003852	456250	65.712	34.644	61.636	43.52	39.662	-0.72872	-0.60086	2.176496	0.092182	0.565836
AE003852	456750	85.072	43.3	65.554	45.482	38.01	1.123815	0.599189	2.689624	0.364603	0.297029
AE003852	457250	70.638	36.59	47.338	40.636	39.822	-0.25528	-0.3294	0.309949	-0.30478	0.594659
AE003852	457750	78.768	40.388	42.304	38.358	35.566	0.523355	0.197676	-0.3469	-0.61891	-0.09996
AE003852	458250	74.922	41.214	40.504	42.896	40.266	0.15676	0.313043	-0.58109	0.009868	0.669921
AE003852	458750	69.478	36	44.36	35.66	34.866	-0.36265	-0.40831	-0.07606	-0.99014	-0.21176
AE003852	459250	70.762	34.568	46.46	32.176	32.456	-0.23867	-0.60574	0.199461	-1.47111	-0.60452
AE003852	459750	79.938	37.788	48.116	47.456	33.684	0.639992	-0.15873	0.416957	0.643697	-0.40239
AE003852	460250	79.884	44.708	45.864	43.07	38.938	0.636016	0.80083	0.123697	0.037949	0.458083

AE003852	460750	87.384	52.288	46.92	52.476	47.01	1.35441	1.851823	0.262777	1.340159	1.779357
AE003852	461250	78.348	36.778	63.622	34.362	37.51	0.491508	-0.29582	2.446711	-1.16469	0.227234
AE003852	461750	69.746	42.46	60.194	41.618	37.256	-0.32989	0.492242	1.999754	-0.15991	0.18703
AE003852	462250	77.936	43.13	50.356	40.78	42.978	0.454485	0.585998	0.715041	-0.27484	1.124028
AE003852	462750	63.584	25.384	43.348	42.774	51.19	-0.91677	-1.8714	-0.1998	0.002012	2.468194
AE003852	463250	48.646	22.032	39.696	38.908	37.244	-2.34407	-2.33481	-0.67604	-0.5318	0.189056
AE003852	463750	64.756	33.83	42.314	38.026	38.57	-0.80232	-0.6995	-0.33281	-0.65281	0.407215
AE003852	464250	61.43	35.824	47.044	46.034	43.456	-1.11919	-0.42233	0.286441	0.456002	1.207509
AE003852	464750	71.078	40.446	44.784	41.422	44.304	-0.19539	0.218894	-0.00786	-0.18101	1.347505
AE003852	465250	61.56	52.548	47.586	34.01	44.868	-1.10438	1.896316	0.359409	-1.20537	1.44106
AE003852	465750	65.558	38.558	43.92	43.944	41.052	-0.72088	-0.04077	-0.11865	0.169882	0.818393
AE003852	466250	68.168	32.47	41.926	47.52	34.648	-0.4701	-0.88319	-0.37819	0.665582	-0.22747
AE003852	466750	68.48	46.666	43.264	47.612	28.692	-0.43908	1.084312	-0.20226	0.679311	-1.20007
AE003852	467250	71.86	35.598	36.914	52.744	32.552	-0.11467	-0.44799	-1.03111	1.390265	-0.56755
AE003852	467750	62.234	35.198	35.832	44.124	33.174	-1.03399	-0.50246	-1.17145	0.198793	-0.46451
AE003852	468250	53.226	24.996	26.888	34.484	29.476	-1.89421	-1.91479	-2.33932	-1.13378	-1.06788
AE003852	468750	59.282	26.834	42.36	35.492	40.962	-1.31391	-1.65923	-0.31615	-0.99334	0.811654
AE003852	469250	61.538	35.388	37.896	31.854	35.596	-1.09698	-0.47331	-0.8985	-1.49561	-0.06447
AE003852	469750	52.96	31.368	39.242	33.298	30.022	-1.91609	-1.02926	-0.72152	-1.29485	-0.97461
AE003852	470250	52.422	36.746	35.47	49.618	33.03	-1.96635	-0.28331	-1.21344	0.963834	-0.48141
AE003852	470750	52.744	29.208	33.074	51.628	40.982	-1.93437	-1.3266	-1.52552	1.242896	0.820243
AE003852	471250	58.95	34.59	28.108	50.324	36.636	-1.33971	-0.58009	-2.17348	1.063505	0.110909
AE003852	471750	67.98	37.284	42.736	40.034	30.924	-0.47501	-0.20595	-0.26061	-0.35899	-0.82179
AE003852	472250	64.636	38.006	56.168	31.388	50.098	-0.7936	-0.10499	1.49595	-1.55406	2.314891
AE003852	472750	77.402	31.822	52.608	34.74	55.804	0.428368	-0.96072	1.031741	-1.08935	3.249273
AE003852	473250	73.286	32.908	47.734	49.732	46.954	0.035953	-0.80933	0.395799	0.985619	1.803439
AE003852	473750	86.918	42.62	54.278	51.814	36.728	1.340735	0.537006	1.252133	1.274641	0.132601
AE003852	474250	82.478	42.898	40.63	55.416	41.54	0.917337	0.576459	-0.53053	1.773937	0.920795
AE003852	474750	101.264	44.636	40.286	38.086	40.7	2.714983	0.818164	-0.57442	-0.62246	0.784766
AE003852	475250	93.962	55	47.232	44.596	33.276	2.017899	2.254823	0.334452	0.279124	-0.42789
AE003852	475750	69.724	45.434	52.15	49.77	36.894	-0.29873	0.930594	0.978276	0.995888	0.165064
AE003852	476250	55.646	47.604	40.336	46.796	42.098	-1.64379	1.232144	-0.56469	0.585472	1.017358
AE003852	476750	69.4	40.242	36.652	34.502	47.376	-0.32734	0.213234	-1.04511	-1.11425	1.881753
AE003852	477250	82.698	44.638	53.412	36.224	47.632	0.945503	0.82315	1.146409	-0.87503	1.924944
AE003852	477750	73.966	38.848	44.546	35.03	28.384	0.111672	0.022008	-0.01127	-1.03921	-1.22118
AE003852	478250	65.03	49.016	45.372	39.446	35.746	-0.74167	1.431514	0.097752	-0.4273	-0.01601
AE003852	478750	64.798	46.49	36.37	44.4	45.174	-0.76266	1.082531	-1.0777	0.259026	1.526997

AE003852	479250	68.51	37.44	24.8	48.028	43.558	-0.40651	-0.17022	-2.58878	0.761919	1.264076
AE003852	479750	66.538	28.714	38.738	38.284	37.884	-0.5939	-1.37808	-0.76608	-0.58504	0.337587
AE003852	480250	74.986	42.196	47.094	35.11	35.37	0.215152	0.490512	0.327071	-1.02313	-0.07218
AE003852	480750	64.15	45.062	47.27	35.032	39.928	-0.81988	0.888478	0.351138	-1.03292	0.674483
AE003852	481250	51.192	29.644	37.338	23.868	29.754	-2.05783	-1.24642	-0.94586	-2.57632	-0.98785
AE003852	481750	61.548	42.386	48.382	35.228	35.062	-1.06633	0.519657	0.498602	-1.0038	-0.11855
AE003852	482250	70.294	39.776	47.388	40.222	26.95	-0.22878	0.159038	0.369757	-0.31193	-1.44371
AE003852	482750	58.708	43.726	44.476	48.84	35.536	-1.33553	0.70717	-0.00976	0.881266	-0.03838
AE003852	483250	64.002	31.774	59.85	39.612	38.342	-0.82809	-0.94759	2.000609	-0.39431	0.421786
AE003852	483750	70.488	42.86	63.994	43.08	31.22	-0.20666	0.589087	2.543275	0.086444	-0.74148
AE003852	484250	80.822	38.822	53.332	41.88	34.216	0.782738	0.030647	1.15087	-0.07856	-0.25024
AE003852	484750	72.704	35.514	52.728	31.532	36.748	0.007622	-0.42667	1.072996	-1.50908	0.165122
AE003852	485250	63.68	28.192	54.312	29.564	27.634	-0.85413	-1.44003	1.281082	-1.78033	-1.32388
AE003852	485750	75.912	40.588	52.774	42.436	33.966	0.316771	0.278115	1.081139	0.001364	-0.28713
AE003852	486250	68.904	28.178	38.032	45.736	35.07	-0.3522	-1.44009	-0.8445	0.458882	-0.10528
AE003852	486750	68.754	44.872	43.018	50.164	31.392	-0.36535	0.873457	-0.19179	1.072445	-0.70538
AE003852	487250	68.984	39.59	56.942	43.608	38.388	-0.34217	0.142688	1.629072	0.166503	0.439945
AE003852	487750	99.73	40.552	56.91	36.44	36.008	2.599179	0.276895	1.625955	-0.8241	0.052094
AE003852	488250	73.22	38.572	53.34	34.978	28.608	0.065282	0.003549	1.160439	-1.02535	-1.15663
AE003852	488750	63.508	36.618	38.872	31.046	27.364	-0.86226	-0.2662	-0.72939	-1.56829	-1.35872
AE003852	489250	73.758	38.392	44.876	41.61	34.884	0.119105	-0.0195	0.056367	-0.10589	-0.12771
AE003852	489750	77.838	33.424	40.322	44.808	44.234	0.510454	-0.70677	-0.53775	0.337521	1.402538
AE003852	490250	70.12	37.958	44.986	38.79	42.256	-0.22641	-0.07774	0.072875	-0.494	1.080423
AE003852	490750	52.484	45.862	46.122	39.966	45.908	-1.91171	1.018135	0.22241	-0.33031	1.678932
AE003852	491250	75.484	50.108	49.842	51.232	48.32	0.288911	1.607271	0.709661	1.229212	2.074675
AE003852	491750	79.794	36.234	54.284	45.804	47.544	0.702253	-0.31374	1.291274	0.479315	1.949112
AE003852	492250	76.088	33.442	47.63	40.706	42.524	0.349046	-0.69957	0.422694	-0.22493	1.129565
AE003852	492750	81.424	19.2	49.94	36.572	33.9	0.860502	-2.67156	0.725665	-0.79582	-0.27931
AE003852	493250	85.088	33.588	43.236	42.32	34.58	1.212069	-0.67746	-0.14945	0.000352	-0.16679
AE003852	493750	74.934	37.98	40.076	38.72	33.436	0.242255	-0.0681	-0.56138	-0.49666	-0.35253
AE003852	494250	60.844	38.384	34.506	36.824	33.188	-1.10395	-0.01119	-1.28829	-0.75795	-0.39175
AE003852	494750	60.056	44.972	36.242	37.058	34.556	-1.17811	0.902377	-1.06033	-0.72458	-0.16672
AE003852	495250	83.36	47.036	48.196	37.816	34.934	1.051577	1.189243	0.50306	-0.61871	-0.10358
AE003852	495750	61.11	47.72	50.906	44.546	34.834	-1.07495	1.284939	0.858309	0.313305	-0.11861
AE003852	496250	58.44	45.704	39.294	45.518	37.304	-1.32908	1.006605	-0.65826	0.448772	0.286621
AE003852	496750	62.972	35.54	38.688	37.49	32.604	-0.89451	-0.40046	-0.73639	-0.6608	-0.4806
AE003852	497250	59.072	31.298	51.544	36.306	42.286	-1.26627	-0.98716	0.944889	-0.82359	1.103943

AE003852	497750	69.76	44.624	43.858	41.02	49.958	-0.24302	0.859819	-0.05857	-0.17047	2.359808
AE003852	498250	60.06	39.784	35.224	37.46	41.238	-1.16942	0.190279	-1.18592	-0.66195	0.935232
AE003852	498750	71.84	37.534	31.914	33.136	36.162	-0.04174	-0.12047	-1.61746	-1.25912	0.106528
AE003852	499250	62.454	34.728	39.688	43.984	43.536	-0.93811	-0.50824	-0.60037	0.242575	1.313663
AE003852	499750	70.164	34.102	36.75	50.38	52.904	-0.19963	-0.59402	-0.98329	1.128388	2.84686
AE003852	500250	63.914	38.492	35.876	32.542	51.51	-0.79612	0.015066	-1.09645	-1.33828	2.620241
AE003852	500750	62.008	40.95	44.074	43.892	48.4	-0.97719	0.356513	-0.02394	0.232855	2.113019
AE003852	501250	94.164	29.084	61.084	45.468	43.8	2.098992	-1.28633	2.200243	0.451879	1.362151
AE003852	501750	78.2	27.986	61.16	44.192	46.434	0.573583	-1.4375	2.211242	0.276362	1.794196
AE003852	502250	67.046	35.728	58.068	39.934	48.448	-0.49186	-0.36406	1.808198	-0.31168	2.124857
AE003852	502750	79.818	39.158	53.102	36.11	44.244	0.730684	0.112035	1.160232	-0.83968	1.438743
AE003852	503250	74.018	38.55	34.916	40.24	32.434	0.177233	0.028751	-1.21552	-0.26734	-0.49111
AE003852	503750	58.032	54.228	34.622	39.718	34.6	-1.35028	2.201553	-1.25288	-0.33855	-0.1356
AE003852	504250	58.134	42.88	39.302	44.226	44.182	-1.33934	0.630466	-0.64016	0.286077	1.432594
AE003852	504750	72.51	31.856	43.544	42.012	39.14	0.03659	-0.89574	-0.08469	-0.0192	0.609449
AE003852	505250	72.124	26.472	41.328	45.534	27.298	0.000866	-1.64064	-0.37324	0.469028	-1.32564
AE003852	505750	72.47	32.46	44.44	42.35	42.206	0.035141	-0.81018	0.034545	0.029562	1.113465
AE003852	506250	74.96	35.938	48.214	42.806	40.684	0.274442	-0.32744	0.528853	0.093646	0.865915
AE003852	506750	87.296	37.168	52.502	47.058	41.538	1.45529	-0.1561	1.090339	0.682862	1.006892
AE003852	507250	75.928	43.576	45.008	66.07	40.688	0.369385	0.732532	0.111976	3.313948	0.869228
AE003852	507750	72.718	39.612	48.516	44.658	43.66	0.063609	0.184344	0.571519	0.352856	1.356543
AE003852	508250	66.684	50.142	50.948	46.726	38.83	-0.51222	1.643998	0.890435	0.639941	0.568065
AE003852	508750	75.672	50.208	52.17	51.828	39.284	0.348468	1.654083	1.05121	1.346745	0.643633
AE003852	509250	91.206	52.834	61.178	42.032	29.058	1.835134	2.018802	2.229576	-0.00741	-1.02721
AE003852	509750	66.898	45.588	62.036	47.28	37.578	-0.48819	1.015961	2.342778	0.719588	0.367325
AE003852	510250	68.646	36.362	48.76	49.732	39.54	-0.31985	-0.26117	0.608736	1.059795	0.689483
AE003852	510750	76.29	42.224	43.218	50.994	36.094	0.412318	0.551832	-0.11451	1.23538	0.127319
AE003852	511250	74.284	37.434	63.098	56.044	39.062	0.221677	-0.11078	2.484772	1.93499	0.613979
AE003852	511750	70.65	31.126	52.046	45.986	41.846	-0.12464	-0.98368	1.041396	0.544588	1.070552
AE003852	512250	60.668	15.944	36.098	48.086	31.95	-1.07801	-3.08589	-1.04186	0.8361	-0.54632
AE003852	512750	66.476	40.53	42.4	34.656	39.81	-0.52142	0.32093	-0.21716	-1.02078	0.740282
AE003852	513250	77.396	44.37	46.876	40.956	41.382	0.524022	0.853824	0.3689	-0.14825	0.998667
AE003852	513750	84.222	47.102	42.612	46.47	29.204	1.177964	1.233228	-0.18732	0.615553	-0.99137
AE003852	514250	69.844	48.558	34.536	35.406	36.92	-0.19578	1.435868	-1.24175	-0.91402	0.271694
AE003852	514750	74.266	43.46	43.894	25.688	29.458	0.228272	0.730588	-0.01764	-2.25738	-0.94717
AE003852	515250	71.8	34.606	38.396	40.586	36.186	-0.00636	-0.49501	-0.73513	-0.19542	0.154329
AE003852	515750	88.134	33.668	46.292	46.55	36.436	1.55681	-0.62401	0.297901	0.630629	0.196539

AE003852	516250	101.558	45.226	53.106	41.726	39.158	2.841702	0.978055	1.189522	-0.03571	0.642973
AE003852	516750	85.42	44.272	38.26	39.852	50.128	1.299653	0.84684	-0.74971	-0.29395	2.438131
AE003852	517250	64.37	33.388	27.94	45.156	50.056	-0.71212	-0.65997	-2.09742	0.440793	2.427687
AE003852	517750	73.628	25.55	33.87	34.926	38.536	0.17439	-1.74482	-1.32133	-0.9734	0.545252
AE003852	518250	72.346	47.776	41.876	36.824	42.028	0.052983	1.335071	-0.27392	-0.70983	1.117598
AE003852	518750	77.046	44.002	39.404	39.088	31.798	0.503621	0.813204	-0.59593	-0.39564	-0.55389
AE003852	519250	67.606	36.492	36.296	40.592	32.628	-0.39792	-0.22621	-1.00107	-0.18657	-0.41684
AE003852	519750	76.25	27.344	37.972	43.148	34.67	0.429877	-1.49253	-0.78096	0.168022	-0.0816
AE003852	520250	79.944	30.988	42.862	36.314	30.94	0.784313	-0.98679	-0.14079	-0.77638	-0.69021
AE003852	520750	71.742	26.838	35.438	24.566	34.584	0.001164	-1.56074	-1.11001	-2.40057	-0.09301
AE003852	521250	64.976	21.582	37.924	46.066	27.672	-0.64466	-2.28791	-0.78404	0.5747	-1.22194
AE003852	521750	67.788	33.864	39.768	42.612	39.92	-0.37457	-0.58556	-0.54197	0.097883	0.782202
AE003852	522250	84.29	38.846	34.074	40.452	38.302	1.204662	0.105539	-1.28508	-0.19993	0.518954
AE003852	522750	78.612	36.744	40.776	39.028	32.438	0.662877	-0.18471	-0.4081	-0.39592	-0.4386
AE003852	523250	88.408	45.062	33.054	45.724	27.918	1.600832	0.96852	-1.41626	0.531398	-1.17639
AE003852	523750	81.672	35.736	34.366	33.764	33.47	0.957873	-0.32246	-1.24372	-1.12212	-0.26719
AE003852	524250	81.106	46.85	46.242	49.854	33.248	0.904936	1.218093	0.309479	1.104739	-0.30216
AE003852	524750	74.464	48.74	56.738	55.712	37.044	0.270966	1.480855	1.68232	1.916126	0.319893
AE003852	525250	80.2	44.348	62.794	56.148	32.594	0.820674	0.873377	2.474874	1.977444	-0.40645
AE003852	525750	77.828	44.926	47.32	45.078	26.29	0.595033	0.954388	0.453565	0.447043	-1.43596
AE003852	526250	69.652	26.786	41.166	48.52	28.324	-0.18563	-1.55759	-0.34967	0.924205	-1.10202
AE003852	526750	54.452	28.864	34.326	42.06	28.146	-1.63798	-1.26878	-1.24256	0.031544	-1.1298
AE003852	527250	65.448	33.302	58.972	44.716	25.16	-0.58527	-0.65305	1.97962	0.399972	-1.61675
AE003852	527750	79.736	35.7	64.728	45.758	27.198	0.782242	-0.31992	2.732966	0.545123	-1.28216
AE003852	528250	65.874	33.294	51.86	46.478	25.642	-0.54216	-0.65228	1.052247	0.645729	-1.53527
AE003852	528750	68.81	34.912	36.588	39.298	27.914	-0.26021	-0.42719	-0.94266	-0.34654	-1.16242
AE003852	529250	11.9	6.49	4.736	45.118	32.418	-5.70118	-4.36353	-5.10449	0.459594	-0.42459
AE003852	529750	0	0	0	40.998	32.038	-6.83796	-5.26164	-5.7224	-0.10936	-0.4854
AE003852	530250	0	0	0	44.362	40.894	-6.83677	-5.2607	-5.72134	0.357015	0.964075
AE003852	530750	0	0	0	40.996	29.358	-6.83558	-5.25976	-5.72027	-0.10763	-0.92098
AE003852	531250	0	0	0	40.902	34.672	-6.8344	-5.25882	-5.7192	-0.11963	-0.05069
AE003852	531750	0	0	0	49.202	34.198	-6.83321	-5.25787	-5.71814	1.029578	-0.12687
AE003852	532250	0	0	5.708	52.728	37.166	-6.83202	-5.25693	-4.97107	1.518361	0.359786
AE003852	532750	0	0	33.256	35.782	32.906	-6.83083	-5.25599	-1.36961	-0.82491	-0.33548
AE003852	533250	0	0	37.852	43.614	38.66	-6.82964	-5.25505	-0.76787	0.259552	0.606746
AE003852	533750	0	0	31.434	53.492	33.08	-6.82846	-5.25411	-1.60561	1.627058	-0.30437
AE003852	534250	0	0	51.032	48.336	38.92	-6.82727	-5.25317	0.956817	0.914789	0.651921

AE003852	534750	0	0	58.978	46.166	29.798	-6.82608	-5.25222	1.996386	0.615598	-0.83839
AE003852	535250	0	0	44.278	42.752	23.764	-6.82489	-5.25128	0.076234	0.144314	-1.82375
AE003852	535750	0	0	33.724	41.908	20.954	-6.8237	-5.25034	-1.30206	0.028559	-2.28191
AE003852	536250	0	0	39.718	35.944	23.342	-6.82252	-5.2494	-0.5176	-0.79549	-1.89009
AE003852	536750	0	0	43.3	36.474	21.646	-6.82133	-5.24846	-0.04839	-0.72117	-2.1661
AE003852	537250	0	0	54.754	45.288	25.52	-6.82014	-5.24752	1.449657	0.499149	-1.53129
AE003852	537750	0	0	46.554	47.12	29.108	-6.81895	-5.24657	0.379023	0.753587	-0.94324
AE003852	538250	0	0	58.928	46.298	40.27	-6.81776	-5.24563	1.997309	0.640875	0.883312
AE003852	538750	0	0	58.808	33.402	34.44	-6.81658	-5.24469	1.982691	-1.14213	-0.06869
AE003852	539250	0	0	51.998	44.182	31.488	-6.81539	-5.24375	1.093723	0.350157	-0.55007
AE003852	539750	0	0	66.464	48.936	31.884	-6.8142	-5.24281	2.985423	1.008818	-0.48399
AE003852	540250	0	0	60.786	39.506	3.654	-6.81301	-5.24187	2.244402	-0.29471	-5.09886
AE003852	540750	0	0	45.26	41.968	0	-6.81182	-5.24092	0.216297	0.046883	-5.69504
AE003852	541250	0	0	36.586	45.796	0	-6.81064	-5.23998	-0.91629	0.577444	-5.69371
AE003852	541750	0	0	37.358	46.318	0	-6.80945	-5.23904	-0.81432	0.650659	-5.69238
AE003852	542250	0	0	44.218	34.87	0	-6.80826	-5.2381	0.083309	-0.93203	-5.69105
AE003852	542750	0	0	36.424	32.238	0	-6.80707	-5.23716	-0.93426	-1.29514	-5.68972
AE003852	543250	1.408	0.308	33.854	29.92	0	-6.67124	-5.19355	-1.26908	-1.6148	-5.68839
AE003852	543750	62.12	33.646	39.292	49.22	0	-0.86432	-0.57432	-0.5573	1.056125	-5.68706
AE003852	544250	69.622	42.72	35.264	36.69	0	-0.14573	0.683634	-1.08267	-0.67625	-5.68573
AE003852	544750	71.884	46.774	46.798	33.542	0	0.071767	1.246173	0.425829	-1.11073	-5.6844
AE003852	545250	80.74	39.938	52.184	49.828	0	0.919832	0.30013	1.130818	1.143242	-5.68307
AE003852	545750	101.764	52.072	52.568	41.842	0	2.931493	1.981984	1.182071	0.039477	-5.68175
AE003852	546250	91.398	58.666	55.112	42.43	0	1.941406	2.896387	1.515624	0.121822	-5.68042
AE003852	546750	97.816	55.32	51.556	38.152	0	2.556332	2.433811	1.051938	-0.46899	-5.67909
AE003852	547250	89.632	47.506	32.934	35.844	0	1.774904	1.352285	-1.3808	-0.78727	-5.67776
AE003852	547750	88.892	50.414	40.672	50.878	0	1.705328	1.75607	-0.36842	1.293509	-5.67643
AE003852	548250	74.986	36.068	39.142	46.774	0	0.37672	-0.23033	-0.56731	0.726772	-5.6751
AE003852	548750	65.328	24.19	34.992	38.344	4.946	-0.54566	-1.87484	-1.10863	-0.43842	-4.86499
AE003852	549250	88.39	31.278	41.27	42.962	22.744	1.660887	-0.892	-0.28706	0.201432	-1.95331
AE003852	549750	98.36	41.482	56.632	51.106	33.796	2.615481	0.522494	1.721739	1.32906	-0.14474
AE003852	550250	77.314	45.348	43.78	40.9	32.512	0.604093	1.058989	0.043112	-0.08182	-0.35338
AE003852	550750	64.366	54.8	38.37	35.29	36.97	-0.6329	2.369309	-0.66288	-0.85689	0.376931
AE003852	551250	70.584	50.736	53.878	44.168	37.746	-0.0371	1.807268	1.365001	0.372277	0.505154
AE003852	551750	77.718	39.284	68.39	48.568	37.524	0.64629	0.221773	3.262713	0.981967	0.470181
AE003852	552250	84.808	46.666	47.684	43.4	39.432	1.325477	1.245337	0.557607	0.268038	0.78351
AE003852	552750	73.108	44.046	45.024	38.156	46.516	0.207823	0.883332	0.211024	-0.4564	1.943224

AE003852	553250	69.798	44.708	52.282	47.15	41.192	-0.10752	0.97598	1.160674	0.788811	1.073966
AE003852	553750	80.836	39.938	37.326	39.55	29.72	0.949209	0.316138	-0.79294	-0.26156	-0.80062
AE003852	554250	59.306	30.556	37.866	38.01	31.504	-1.10846	-0.9826	-0.72129	-0.47359	-0.50757
AE003852	554750	81.2	36.668	35.886	56.302	34.594	0.986393	-0.13497	-0.97901	2.057888	-0.00096
AE003852	555250	93.57	31.678	41.166	47.034	31.114	2.170493	-0.82529	-0.28787	0.776773	-0.56868
AE003852	555750	86.354	32.208	45.168	51.108	37.274	1.481633	-0.75093	0.236237	1.341365	0.439938
AE003852	556250	77.55	38.506	43.208	45.966	35.194	0.640917	0.122472	-0.01886	0.631033	0.101143
AE003852	556750	74.212	30.448	52.228	37.75	32.222	0.3229	-0.99285	1.161074	-0.50455	-0.38351
AE003852	557250	62.942	31.276	57.492	37.58	31.688	-0.75363	-0.87721	1.850118	-0.52707	-0.4695
AE003852	557750	61.182	43.212	42.99	36.392	27.598	-0.92075	0.777216	-0.04416	-0.69041	-1.13698
AE003852	558250	65.944	55.656	38.476	38.734	39.494	-0.46418	2.502015	-0.63305	-0.36542	0.809603
AE003852	558750	67.556	46.12	53.304	37.68	40.154	-0.30884	1.181942	1.305964	-0.51022	0.918857
AE003852	559250	67.536	30.842	47.136	36.12	35.148	-0.30957	-0.93357	0.500903	-0.72503	0.101599
AE003852	559750	69.848	31.056	46.906	40.186	33.138	-0.08729	-0.90298	0.471908	-0.16154	-0.22575
AE003852	560250	77.16	31.548	46.412	49.596	29.378	0.613126	-0.83388	0.40841	1.141219	-0.83926
AE003852	560750	87.598	31.408	40.4	41.426	40.564	1.612474	-0.85233	-0.37626	0.011999	0.991219
AE003852	561250	86.936	28.518	35.754	36.868	35.654	1.550356	-1.25174	-0.98241	-0.61754	0.189659
AE003852	561750	76.112	43.052	36.276	41.894	38.16	0.516472	0.762584	-0.91312	0.078746	0.600773
AE003852	562250	72.628	50.58	54.86	50.966	52.002	0.184494	1.806374	1.516784	1.334752	2.865564
AE003852	562750	61.286	46.972	57.634	45.98	41.828	-0.89892	1.307502	1.880397	0.646001	1.203228
AE003852	563250	76.45	43.442	48.35	34.81	40.89	0.552358	0.819436	0.66809	-0.89823	1.051175
AE003852	563750	85.39	34.062	32.806	49.214	30.586	1.408456	-0.47903	-1.36237	1.095391	-0.63242
AE003852	564250	79.838	36.162	51.966	46.6	26.384	0.87872	-0.18717	1.142814	0.734777	-1.31821
AE003852	564750	73.77	31.442	54.656	35.304	32.022	0.299641	-0.84009	1.495449	-0.82689	-0.39494
AE003852	565250	70.836	29.656	50.638	44.164	43.074	0.020258	-1.08656	0.971382	0.399791	1.413624
AE003852	565750	78.336	30.174	41.106	36.064	36.056	0.738652	-1.01386	-0.27334	-0.71975	0.267361
AE003852	566250	57.586	36.71	42.538	42.774	43.794	-1.24443	-0.10749	-0.08512	0.209505	1.534018
AE003852	566750	57.128	40.356	47.066	49.822	38.76	-1.28704	0.398526	0.507736	1.185515	0.712182
AE003852	567250	61.31	40.174	42.562	47.656	30.084	-0.88594	0.374256	-0.07985	0.886877	-0.7052
AE003852	567750	64.178	32.512	50.922	45.956	34.614	-0.61049	-0.68621	1.013827	0.652704	0.036882
AE003852	568250	57.738	29.136	49.69	39.384	38.106	-1.22514	-1.15295	0.853876	-0.25545	0.609228
AE003852	568750	56.196	41.992	31.46	48.336	31.252	-1.37141	0.628927	-1.52763	0.983954	-0.51022
AE003852	569250	65.532	28.442	37.976	31.828	35.558	-0.47745	-1.2472	-0.67495	-1.29873	0.195235
AE003852	569750	96.53	33.45	46.918	40.61	36.484	2.488003	-0.55251	0.494786	-0.08284	0.347985
AE003852	570250	95.784	40.624	48.484	44.1	36.332	2.417852	0.442244	0.70052	0.400961	0.324459
AE003852	570750	70.616	43.148	28.562	45.164	27.29	0.012288	0.792833	-1.90212	0.549155	-1.15277
AE003852	571250	66.846	37.866	36.886	51.102	27.448	-0.34704	0.062064	-0.81315	1.371609	-1.1256

AE003852	571750	72.028	33.838	47.114	35.796	32.728	0.14969	-0.49499	0.524664	-0.74479	-0.26088
AE003852	572250	68.146	31.7	46.734	43.216	30.856	-0.22035	-0.79022	0.476065	0.282679	-0.56566
AE003852	572750	69.734	27.926	44.086	47.744	22.372	-0.0673	-1.31209	0.13105	0.910077	-1.95165
AE003852	573250	68.18	41.336	54.046	40.156	28.252	-0.21472	0.546527	1.433838	-0.13863	-0.98881
AE003852	573750	69.482	46.69	48.352	31.02	22.926	-0.08903	1.289154	0.690726	-1.40148	-1.8584
AE003852	574250	78.082	45.13	30.308	35.684	27.494	0.734558	1.07399	-1.66647	-0.75527	-1.1101
AE003852	574750	68.732	41.138	32.908	44.986	36.21	-0.15837	0.521923	-1.3256	0.53255	0.316476
AE003852	575250	67.142	33.12	42.742	40.26	32.118	-0.30923	-0.58786	-0.03928	-0.12023	-0.35132
AE003852	575750	71.542	37.722	48.446	35.968	32.89	0.112719	0.050591	0.707273	-0.71298	-0.22376
AE003852	576250	52.42	49.83	47.524	31.264	34.108	-1.71468	1.728844	0.587838	-1.36272	-0.02326
AE003852	576750	49.052	46.466	37.086	46.36	38.266	-2.03557	1.263773	-0.77529	0.726636	0.657994
AE003852	577250	62.896	24.548	45.16	45.556	39.79	-0.71051	-1.77157	0.281006	0.616414	0.90853
AE003852	577750	88.088	32.278	51.852	47.64	43.124	1.699723	-0.6998	1.156682	0.905713	1.45504
AE003852	578250	68.656	31.894	41.802	40.968	38.94	-0.15732	-0.75205	-0.15574	-0.01628	0.772196
AE003852	578750	68.528	31.602	38.282	44.82	33.442	-0.16837	-0.79156	-0.61472	0.517605	-0.12551
AE003852	579250	58.854	28.434	39.774	39.242	38.366	-1.09229	-1.22948	-0.41866	-0.25304	0.680994
AE003852	579750	79.596	40.326	40.808	40.95	43.044	0.892406	0.418854	-0.28245	-0.01576	1.447276
AE003852	580250	90.726	45.972	41.404	49.924	32.772	1.957928	1.201931	-0.20349	1.226689	-0.23108
AE003852	580750	60.938	35.61	30.836	46.136	35.286	-0.88944	-0.23257	-1.58361	0.703667	0.181338
AE003852	581250	39.086	33.326	41.87	48.51	39.426	-2.9779	-0.54803	-0.14046	1.033084	0.859645
AE003852	581750	49.314	25.968	40.516	40.362	25.81	-1.99863	-1.56638	-0.31635	-0.09309	-1.36553
AE003852	582250	60.88	27.18	30.706	42.01	33.156	-0.89142	-1.39754	-1.59741	0.135891	-0.16297
AE003852	582750	69.444	29.92	42.074	41.362	40.586	-0.07128	-1.01703	-0.1106	0.047251	1.053319
AE003852	583250	72.134	30.16	48.826	38.428	30.566	0.18715	-0.98284	0.772919	-0.35763	-0.58383
AE003852	583750	82.262	40.736	40.71	48.956	35.412	1.156853	0.483184	-0.28674	1.099795	0.209919
AE003852	584250	71.73	39.226	46.356	34.412	41.26	0.150893	0.274947	0.452233	-0.91119	1.167521
AE003852	584750	65.326	32.562	47.834	46.694	37.762	-0.46032	-0.64727	0.646466	0.788879	0.596853
AE003852	585250	61.374	32.362	43.302	39.866	40.474	-0.83705	-0.67403	0.055222	-0.15469	1.041652
AE003852	585750	59.49	26.904	39.024	35.182	41.606	-1.01602	-1.42918	-0.50283	-0.80166	1.228088
AE003852	586250	55.682	31.79	43.552	27.452	39.188	-1.37899	-0.75139	0.090026	-1.87002	0.834023
AE003852	586750	75.62	31.502	47.09	41.534	37.05	0.528823	-0.79034	0.553491	0.079064	0.485744
AE003852	587250	86.146	40.236	60.594	50.486	34.01	1.536587	0.420511	2.319462	1.318469	-0.01003
AE003852	587750	84.214	38.144	54.162	46.022	33.218	1.353022	0.13165	1.479897	0.70193	-0.13821
AE003852	588250	80.988	32.93	49.164	32.826	29.658	1.045716	-0.5897	0.827749	-1.12258	-0.71902
AE003852	588750	82.89	39.118	42.934	38.674	34.936	1.228787	0.268461	0.014584	-0.31257	0.145379
AE003852	589250	76.226	30.92	36.81	44.982	34.594	0.592714	-0.86626	-0.78473	0.561065	0.090784
AE003852	589750	77.828	32.908	45.254	44.954	43.642	0.747097	-0.58992	0.319928	0.558194	1.571654

AE003852	590250	76.094	26.644	44.358	45.414	37.706	0.582467	-1.45673	0.20389	0.622832	0.602322
AE003852	590750	79.924	31.468	33.128	42.592	35.332	0.949908	-0.78752	-1.26275	0.233445	0.215452
AE003852	591250	80.294	27.386	30.366	36.916	38.092	0.986478	-1.35206	-1.62266	-0.55076	0.6681
AE003852	591750	57.786	31.548	24.278	37.518	29.96	-1.16472	-0.77456	-2.41727	-0.46648	-0.66033
AE003852	592250	60.974	25.116	26.428	31.622	28.194	-0.85867	-1.66463	-2.13521	-1.28112	-0.94777
AE003852	592750	70.192	30.778	32.4	48.584	43.858	0.024013	-0.87934	-1.35363	1.066376	1.614952
AE003852	593250	70.958	31.206	23.128	48.024	31.198	0.098452	-0.81911	-2.56437	0.989909	-0.4539
AE003852	593750	84.788	30.864	41.84	38.1	36.208	1.422168	-0.86554	-0.11774	-0.38196	0.366674
AE003852	594250	110.122	44.546	39.012	35.42	43.808	3.845983	1.030756	-0.48628	-0.7517	1.610765
AE003852	594750	91.664	41.062	31.846	45.82	34.494	2.082079	0.549062	-1.42178	0.688019	0.089058
AE003852	595250	75.192	33.798	33.976	43.04	33.874	0.508091	-0.45627	-1.14233	0.304441	-0.011
AE003852	595750	72.682	29.028	40.48	42.636	28.428	0.269254	-1.11612	-0.29122	0.249555	-0.9002
AE003852	596250	70.99	36.87	37.046	40.714	24.706	0.10864	-0.02883	-0.73897	-0.01533	-1.5075
AE003852	596750	78.924	43.712	32.146	33.682	33.964	0.868537	0.919931	-1.37831	-0.98712	0.00771
AE003852	597250	73.804	39.24	45.052	32.124	36.114	0.380112	0.30137	0.309509	-1.20165	0.36061
AE003852	597750	65.826	30.21	47.482	28.71	36.384	-0.38162	-0.94861	0.628163	-1.67293	0.40609
AE003852	598250	60.316	32.836	43.302	30.868	26.038	-0.90734	-0.58389	0.082924	-1.3734	-1.28437
AE003852	598750	61.74	41.118	35.806	44.618	32.862	-0.76997	0.564352	-0.8957	0.529756	-0.16717
AE003852	599250	60.566	35.832	33.172	43.4	35.662	-0.88105	-0.16697	-1.23889	0.362262	0.292017
AE003852	599750	68.71	40.29	42.95	49.67	29.332	-0.10107	0.451534	0.040115	1.230644	-0.74174
AE003852	600250	84.398	31.366	39.826	44.248	31.608	1.400318	-0.78376	-0.36711	0.481578	-0.36824
AE003852	600750	70.278	32.6	37.796	31.51	24.052	0.051245	-0.61187	-0.63136	-1.27957	-1.60248
AE003852	601250	71.506	32.816	35.43	24.806	29.158	0.169864	-0.58101	-0.93951	-2.20599	-0.76621
AE003852	601750	87.524	29.916	42.882	34.57	38.022	1.702813	-0.9818	0.03549	-0.85425	0.684575
AE003852	602250	61.936	38.02	44.518	46.794	46.07	-0.74292	0.141781	0.250373	0.837796	2.001924
AE003852	602750	65.718	44.268	52.664	37.628	31.662	-0.38006	1.008253	1.31608	-0.42921	-0.35276
AE003852	603250	74.934	45.178	57.892	50.32	33.536	0.502427	1.135256	2.000419	1.327581	-0.04499
AE003852	603750	68.186	34.968	47.488	53.594	26.606	-0.14168	-0.27819	0.641733	1.781502	-1.17687
AE003852	604250	72.642	27.68	39.412	45.336	33.534	0.285625	-1.28684	-0.41269	0.640109	-0.04266
AE003852	604750	85.76	31.296	35.064	32.378	34.468	1.541254	-0.78498	-0.97989	-1.15147	0.111398
AE003852	605250	70.222	40.68	44.376	40.958	34.366	0.056582	0.515918	0.238207	0.036469	0.096049
AE003852	605750	70.188	56.362	63.88	53.346	35.612	0.054519	2.689275	2.788348	1.751204	0.301126
AE003852	606250	81.01	48.162	60.276	45.42	32.666	1.090588	1.554277	2.318388	0.655738	-0.17928
AE003852	606750	77.078	49.432	53.368	45.788	46.75	0.715768	1.731151	1.416613	0.707649	2.125085
AE003852	607250	81.828	36.692	49.018	53.91	33.372	1.171187	-0.03277	0.849155	1.832234	-0.06117
AE003852	607750	94.778	26.826	53.446	52.34	36.918	2.410751	-1.39856	1.428938	1.616045	0.520003
AE003852	608250	97.058	37.914	33.292	48.326	38.048	2.62997	0.138397	-1.20402	1.061758	0.706111

AE003852	608750	81.636	41.222	38.992	42.752	45.906	1.15639	0.597593	-0.458	0.291664	1.992391
AE003852	609250	64.83	47.84	55.6	37.872	49.476	-0.44954	1.515321	1.713651	-0.38242	2.577491
AE003852	609750	71.546	55.51	53.376	39.706	41.774	0.193885	2.578781	1.424051	-0.12771	1.31938
AE003852	610250	70.448	33.466	47.538	43.998	39.678	0.090074	-0.47401	0.662119	0.467041	0.977969
AE003852	610750	69.172	37.33	41.718	51.284	36.172	-0.03076	0.062204	-0.09746	1.475974	0.405994
AE003852	611250	62.518	50.476	43.522	60.924	33.178	-0.66588	1.88425	0.139379	2.810556	-0.08226
AE003852	611750	60.674	51.216	60.218	47.132	39.412	-0.84103	1.987704	2.322528	0.903599	0.938462
AE003852	612250	73.324	41.304	57.564	42.484	34.068	0.369851	0.615544	1.976729	0.261606	0.065934
AE003852	612750	74.362	42.422	53.476	48.49	37.332	0.4703	0.771361	1.443513	1.093467	0.600997
AE003852	613250	61.736	41.894	40.966	40.976	30.03	-0.7359	0.69916	-0.19042	0.054997	-0.59171
AE003852	613750	79.47	36.648	30.582	37.756	23.464	0.961141	-0.02662	-1.54649	-0.38945	-1.66406
AE003852	614250	90.246	35.314	26.816	44.44	21.46	1.992811	-0.21048	-2.03762	0.536205	-1.99042
AE003852	614750	82.142	38.3	37.334	43.204	25.662	1.219034	0.204111	-0.6619	0.366222	-1.30198
AE003852	615250	65.868	35.494	41.546	31.982	22.316	-0.33602	-0.18366	-0.11035	-1.18521	-1.84779
AE003852	615750	63.914	39.242	43.774	34.58	31.882	-0.52169	0.336488	0.181903	-0.8248	-0.28222
AE003852	616250	56.818	29.394	46.172	37.992	32.114	-1.19907	-1.02681	0.496375	-0.35179	-0.24295
AE003852	616750	57.322	37.674	45.546	49.344	38.142	-1.14969	0.121158	0.415625	1.219627	0.744086
AE003852	617250	68.924	40.668	52.886	44.964	37.256	-0.03903	0.536856	1.375992	0.614709	0.600535
AE003852	617750	67.386	46.092	52.134	41.008	35.124	-0.18492	1.28918	1.278775	0.068446	0.253238
AE003852	618250	61.45	31.24	36.994	45.308	28.202	-0.75137	-0.76731	-0.69888	0.664302	-0.87733
AE003852	618750	76.676	40.878	35.158	41.114	31.842	0.705838	0.568772	-0.93777	0.085114	-0.28078
AE003852	619250	85.708	44.628	37.676	38.492	28.254	1.570734	1.089198	-0.60762	-0.27661	-0.86616
AE003852	619750	76.828	36.322	42.026	38.766	31.968	0.722749	-0.06048	-0.03803	-0.2377	-0.25752
AE003852	620250	73.162	34.966	37.042	39.012	44.764	0.373367	-0.24739	-0.68835	-0.20267	1.836231
AE003852	620750	63.598	31.648	39.748	33.288	28.106	-0.54003	-0.70609	-0.33362	-0.99351	-0.88638
AE003852	621250	61.95	36.596	51.548	51.228	32.136	-0.69643	-0.0197	1.209646	1.489278	-0.22606
AE003852	621750	69.14	30.828	36.826	46.98	28.056	-0.00768	-0.8178	-0.71338	0.90262	-0.89189
AE003852	622250	70.778	32.228	29.638	41.088	32.644	0.150143	-0.62291	-1.65175	0.088534	-0.14033
AE003852	622750	62.004	36.534	35.092	33.434	25.932	-0.6877	-0.02547	-0.93787	-0.9693	-1.23655
AE003852	623250	63.704	32.842	51.556	29.432	36.562	-0.52395	-0.53597	1.214953	-1.52193	0.503007
AE003852	623750	72.488	29.266	50.91	34.686	31.352	0.31723	-1.03041	1.13159	-0.7941	-0.34761
AE003852	624250	85.938	35.472	47.302	35.876	29.692	1.604608	-0.16976	0.661108	-0.62847	-0.61772
AE003852	624750	72.346	37.986	30.508	31.392	35.374	0.306027	0.179446	-1.53272	-1.24778	0.312732
AE003852	625250	68.168	42.356	34.844	21.292	42.178	-0.09232	0.78576	-0.96496	-2.64399	1.426661
AE003852	625750	68.128	37.412	32.888	30.298	34.308	-0.09495	0.101813	-1.21953	-1.39712	0.141078
AE003852	626250	57.398	34.474	33.348	42.12	37.182	-1.11985	-0.30424	-1.15835	0.239318	0.612368
AE003852	626750	46.968	36.218	48.592	46.544	20.194	-2.11606	-0.06171	0.835032	0.852328	-2.1642

AE003852	627250	46.346	31.574	46.97	30.322	27.274	-2.17435	-0.70409	0.62411	-1.39079	-1.00514
AE003852	627750	53.054	39.834	33.96	28.928	33.03	-1.53169	0.441098	-1.07517	-1.58263	-0.06258
AE003852	628250	66.532	23.582	48.414	35.646	22.722	-0.24164	-1.80934	0.814964	-0.65227	-1.74683
AE003852	628750	59.7	27.752	42.736	31.69	28.494	-0.89377	-1.23073	0.073943	-1.19854	-0.80166
AE003852	629250	64.938	29.642	39.416	47.63	43.32	-0.39169	-0.96797	-0.3589	1.007575	1.624039
AE003852	629750	71.542	37.11	42.758	41.818	31.186	0.241022	0.067511	0.07895	0.204557	-0.3588
AE003852	630250	74.952	34.244	48.68	40.286	34.636	0.5683	-0.32857	0.853991	-0.00637	0.206679
AE003852	630750	83.208	43.286	48.452	42.656	34.802	1.358989	0.924951	0.825258	0.322489	0.235153
AE003852	631250	66.19	39.37	46.72	32.732	35.65	-0.26721	0.383412	0.59996	-1.04938	0.375149
AE003852	631750	55.232	31.86	45.344	33.916	35.652	-1.31391	-0.656	0.421189	-0.88458	0.376806
AE003852	632250	47.142	31.37	54.816	30.632	28.536	-2.08635	-0.72294	1.660198	-1.33788	-0.78548
AE003852	632750	74.036	34.934	49.706	32.936	31.588	0.486645	-0.22828	0.993411	-1.01815	-0.28509
AE003852	633250	61.55	38.306	24.534	33.884	28.978	-0.70617	0.239784	-2.29538	-0.886	-0.71055
AE003852	633750	75.636	31.968	31.284	30.212	24.43	0.642025	-0.63727	-1.41212	-1.39298	-1.45291
AE003852	634250	72.656	35.302	38.97	41.752	30.378	0.358243	-0.17447	-0.40653	0.204448	-0.47896
AE003852	634750	59.414	41.568	53.624	44.292	26.118	-0.90687	0.694491	1.509736	0.556829	-1.17423
AE003852	635250	66.858	43.34	62.772	48.854	30.13	-0.19383	0.940906	2.7064	1.18893	-0.51685
AE003852	635750	76.978	39.184	50.662	34.924	33.1	0.775109	0.36612	1.124749	-0.73712	-0.02986
AE003852	636250	66.046	33.258	33.998	28.692	29.602	-0.2691	-0.45386	-1.05209	-1.59824	-0.60053
AE003852	636750	58.174	26.07	41.026	24.27	23.908	-1.02069	-1.44867	-0.1325	-2.20897	-1.53029
AE003852	637250	57.102	26.948	40.572	32.46	34.562	-1.12202	-1.3261	-0.19077	-1.07498	0.213193
AE003852	637750	59.814	32.576	38.598	54.552	27.628	-0.86149	-0.54551	-0.44769	1.982192	-0.91933
AE003852	638250	47.584	29.16	38.744	44.54	25.732	-2.02983	-1.01779	-0.42755	0.598153	-1.22804
AE003852	638750	61.338	21.024	27.984	39.466	33.36	-0.71338	-2.14392	-1.83276	-0.10277	0.020629
AE003852	639250	69.754	36.4	42.862	48.66	49.734	0.092612	-0.01295	0.112786	1.170111	2.699456
AE003852	639750	67.124	37.406	49.166	48.552	48.674	-0.1577	0.127349	0.937753	1.156173	2.527453
AE003852	640250	82.454	44.314	50.638	46.798	36.908	1.309458	1.08525	1.131201	0.91453	0.604792
AE003852	640750	70.292	46.588	30.772	43.61	34.12	0.147624	1.401207	-1.46412	0.474511	0.150224
AE003852	641250	66.124	39.038	32.044	44.818	43.194	-0.24976	0.356254	-1.29681	0.642626	1.635345
AE003852	641750	81.088	36.892	41.608	38.168	29.438	1.182394	0.059912	-0.04578	-0.27632	-0.61272
AE003852	642250	79.416	37.772	38.016	38.436	31.32	1.023693	0.182759	-0.51417	-0.23824	-0.30365
AE003852	642750	69.706	36.854	33.992	38.536	37.034	0.096338	0.056531	-1.03902	-0.22341	0.632043
AE003852	643250	60.222	35	37.46	42.656	39.282	-0.8094	-0.19936	-0.58471	0.347548	1.000969
AE003852	643750	75.192	47.9	43.85	44.768	38.968	0.623327	1.588608	0.251501	0.640721	0.950953
AE003852	644250	66.224	33.85	41.382	55.196	38.538	-0.23307	-0.35679	-0.06999	2.084313	0.881968
AE003852	644750	73.794	26.5	43.792	41.588	41.456	0.492015	-1.37403	0.246052	0.20281	1.360453
AE003852	645250	69.288	33.23	47.352	39.228	49.344	0.062306	-0.44079	0.712392	-0.12267	2.651638

AE003852	645750	70.414	37.68	45.508	38.752	36.538	0.171171	0.176606	0.472456	-0.18751	0.558914
AE003852	646250	56.898	33.676	52.708	32.078	27.978	-1.12014	-0.37712	1.414525	-1.10978	-0.8395
AE003852	646750	52.752	28.54	47.53	37.418	35.818	-1.51543	-1.08767	0.738852	-0.37005	0.443838
AE003852	647250	69.724	41.294	46.49	33.524	35.894	0.108752	0.680075	0.603995	-0.90774	0.457596
AE003852	647750	79.804	35.94	52.552	48.362	30.566	1.073865	-0.06067	1.397333	1.145927	-0.41232
AE003852	648250	70.246	37.984	56.696	42.914	25.934	0.161045	0.223427	1.939999	0.393263	-1.16842
AE003852	648750	72.622	37.07	42.942	37.726	21.684	0.389444	0.097753	0.143485	-0.32343	-1.86205
AE003852	649250	69.692	38.418	30.658	38.56	27.592	0.110443	0.285432	-1.46091	-0.20706	-0.89464
AE003852	649750	69.264	25.208	31.79	47.18	32.21	0.070703	-1.5436	-1.3119	0.986421	-0.13817
AE003852	650250	72.45	22.61	38.386	40.96	30.61	0.37656	-1.90255	-0.44877	0.12696	-0.39847
AE003852	650750	63.66	33.904	36.634	36.248	31.744	-0.46282	-0.33706	-0.67668	-0.52389	-0.21171
AE003852	651250	63.172	49.76	52.17	42.886	34.212	-0.5083	1.860397	1.354866	0.395404	0.19319
AE003852	651750	69.806	46.894	53.994	40.334	41.214	0.127285	1.464314	1.594319	0.043368	1.339495
AE003852	652250	79.646	48.324	51.28	29.948	28.908	1.069448	1.663352	1.240678	-1.39241	-0.67147
AE003852	652750	71.366	55.632	42.388	44.424	36.694	0.27884	2.676665	0.079604	0.611175	0.603038
AE003852	653250	72.946	47.036	45.246	40.906	32.052	0.431119	1.48681	0.454195	0.125504	-0.1547
AE003852	653750	78.752	36.826	45.202	33.942	27.956	0.987521	0.073369	0.44951	-0.83688	-0.82315
AE003852	654250	76.228	33.05	44.674	41.234	19.86	0.747345	-0.44878	0.381569	0.172884	-2.14569
AE003852	654750	85.35	31.106	49.07	45.796	34.41	1.620847	-0.71713	0.95717	0.804985	0.234874
AE003852	655250	79.862	33.984	32.046	41.26	25.282	1.097231	-0.31751	-1.26672	0.178485	-1.25642
AE003852	655750	71.122	33.342	51.334	45.174	22.602	0.262635	-0.4055	1.255194	0.720943	-1.69333
AE003852	656250	56.044	27.242	58.186	41.096	32.508	-1.17805	-1.24959	2.151782	0.157803	-0.07215
AE003852	656750	61.658	30.144	51.544	37.178	39.616	-0.64001	-0.84663	1.284771	-0.3832	1.091484
AE003852	657250	63.55	25.04	38.318	47.428	38.804	-0.45789	-1.55274	-0.44274	1.035764	0.960034
AE003852	657750	66.242	27.324	36.058	30.024	43.278	-0.19928	-1.2354	-0.73704	-1.37087	1.692958
AE003852	658250	61.826	44.648	47.42	34.726	46.844	-0.62038	1.165419	0.748981	-0.7194	2.277404
AE003852	658750	60.162	44.988	58.94	44.864	41.688	-0.77831	1.213461	2.255653	0.684073	1.435618
AE003852	659250	82.074	43.948	56.738	42.536	36.772	1.318263	1.070332	1.968928	0.363024	0.633078
AE003852	659750	79.528	45.866	65.91	39.728	36.436	1.075983	1.336973	3.168729	-0.02443	0.579464
AE003852	660250	72.476	53.726	64.462	31.594	28.006	0.402806	2.426754	2.980548	-1.14867	-0.79769
AE003852	660750	66.39	47.416	54.362	24.434	30.112	-0.17799	1.553576	1.661593	-2.13816	-0.45199
AE003852	661250	58.004	25.614	42.378	32.496	37.164	-0.97874	-1.4657	0.096409	-1.02188	0.702496
AE003852	661750	62.242	36.18	52.814	29.776	32.856	-0.57228	-0.00105	1.461408	-1.39716	-0.00062
AE003852	662250	78.078	28.144	41.948	30.298	34.974	0.943264	-1.11333	0.042341	-1.32394	0.347044
AE003852	662750	61.834	30.89	39.73	51.546	60.322	-0.60892	-0.73199	-0.24647	1.616467	4.49331
AE003852	663250	67.786	32.116	37.51	41.618	46.51	-0.03856	-0.56121	-0.53555	0.244049	2.236084
AE003852	663750	75.228	37.496	37.522	43.822	32.878	0.674289	0.185017	-0.53292	0.549948	0.008292

AE003852	664250	68.928	34.68	46.594	41.936	38.554	0.073024	-0.20414	0.653812	0.290045	0.937768
AE003852	664750	62.062	35.862	48.776	34.774	38.202	-0.58237	-0.03946	0.940054	-0.69973	0.881539
AE003852	665250	65.492	30.568	39.964	28.632	37.67	-0.25318	-0.77189	-0.21056	-1.5484	0.795875
AE003852	665750	71.388	36.224	30.254	25.918	35.864	0.311832	0.012574	-1.47855	-1.92285	0.501885
AE003852	666250	72.08	40.29	30.818	45.592	33.302	0.379194	0.576776	-1.40377	0.799818	0.084273
AE003852	666750	72.434	39.002	35.696	32.798	32.626	0.414234	0.399292	-0.76517	-0.96908	-0.02494
AE003852	667250	65.856	38.272	50.002	26.92	31.564	-0.21362	0.299107	1.105614	-1.78123	-0.19727
AE003852	667750	73.192	30.016	42.954	36.356	35.44	0.489096	-0.84365	0.185541	-0.47486	0.437871
AE003852	668250	84.06	31.024	51.858	33.504	38.08	1.529563	-0.70307	1.350315	-0.8684	0.870896
AE003852	668750	79.894	32.352	41.51	43.834	41.282	1.132367	-0.51816	-0.00105	0.561632	1.395821
AE003852	669250	80.042	38.652	37.068	45.688	35.782	1.147708	0.355515	-0.58053	0.819113	0.497784
AE003852	669750	63.064	49.626	43.488	35.444	20.564	-0.47467	1.876676	0.259594	-0.59702	-1.98935
AE003852	670250	44.086	36.898	37.43	42.742	32.724	-2.2883	0.114418	-0.53109	0.413574	0.000395
AE003852	670750	46.604	32.21	34.776	37.172	27.926	-2.04632	-0.53407	-0.87689	-0.35597	-0.78285
AE003852	671250	64.212	35.72	40.838	41.576	24.934	-0.36132	-0.04689	-0.08355	0.254277	-1.27078
AE003852	671750	72.382	37.404	49	41.556	26.526	0.421141	0.187339	0.984247	0.252512	-1.00912
AE003852	672250	66.16	26.27	48.814	42.73	34.812	-0.17266	-1.3541	0.961003	0.415923	0.347146
AE003852	672750	49.652	20.396	53.378	48.856	39.288	-1.7501	-2.16688	1.55856	1.264385	1.080396
AE003852	673250	51.872	22.272	41.362	34.982	36.08	-1.53661	-1.90606	-0.01081	-0.65392	0.55715
AE003852	673750	67.066	33.91	36.514	42.906	30.694	-0.08246	-0.29292	-0.64335	0.443278	-0.32225
AE003852	674250	59.022	33.212	43.122	36.362	30.142	-0.8505	-0.38867	0.221348	-0.461	-0.41118
AE003852	674750	59.448	22.452	33.632	43.812	28.71	-0.80858	-1.8783	-1.01788	0.570617	-0.64401
AE003852	675250	67.36	30.06	54.624	46.46	44.856	-0.05078	-0.82343	1.726734	0.937939	1.997531
AE003852	675750	64.186	49.358	56.446	61.782	34.304	-0.35312	1.85085	1.965925	3.058557	0.273384
AE003852	676250	78.374	41.68	44.492	53.76	29.206	1.004833	0.788164	0.404663	1.949812	-0.55892
AE003852	676750	71.944	31.708	44.424	39.33	34.806	0.391136	-0.59231	0.396841	-0.0454	0.358131
AE003852	677250	65.698	25.568	35.13	37.846	25.128	-0.20496	-1.44193	-0.81677	-0.2497	-1.2231
AE003852	677750	73.894	39.938	49.758	39.58	29.324	0.579986	0.549672	1.096099	-0.00882	-0.53563
AE003852	678250	70.326	40.484	47.776	49.664	34.904	0.239975	0.62625	0.838127	1.387188	0.378145
AE003852	678750	72.724	32.916	60.306	34.136	35.262	0.470478	-0.4212	2.476801	-0.75992	0.438015
AE003852	679250	67.472	40.382	47.138	39.196	32.338	-0.03057	0.614004	0.756874	-0.05893	-0.03879
AE003852	679750	56.552	37.488	42.382	49.814	35.346	-1.07363	0.214042	0.136354	1.410946	0.45441
AE003852	680250	59.568	47.348	49.648	48.508	42.164	-0.78403	1.580881	1.08705	1.231279	1.570627
AE003852	680750	79.438	46.908	43.868	42.482	27.342	1.117273	1.52087	0.332698	0.398656	-0.85175
AE003852	681250	84.364	38.436	47.092	37.428	25.01	1.589522	0.348192	0.755124	-0.2995	-1.23176
AE003852	681750	69.31	43.644	38.826	39.156	30.346	0.151134	1.070594	-0.32414	-0.05945	-0.35788
AE003852	682250	50.27	33.338	28.148	37.83	28.326	-1.66843	-0.35615	-1.71863	-0.24189	-0.68686

AE003852	682750	60.884	28.628	33.93	42.044	27.718	-0.65225	-1.00768	-0.96189	0.342074	-0.78495
AE003852	683250	58.362	25.842	29.952	34.954	23.122	-0.89223	-1.39268	-1.48073	-0.63774	-1.53517
AE003852	683750	59.154	30.154	36.394	37.72	29.812	-0.81531	-0.7944	-0.63772	-0.2541	-0.43988
AE003852	684250	75.07	37.396	39.972	51.032	50.278	0.707888	0.209772	-0.16903	1.588463	2.908076
AE003852	684750	91.318	35.98	36.488	41.582	41.966	2.262832	0.014556	-0.62331	0.282171	1.550217
AE003852	685250	58.178	40.658	37.036	28.712	37.942	-0.90508	0.663538	-0.55062	-1.49724	0.893537
AE003852	685750	57.878	40.84	33.074	46.058	30.61	-0.93258	0.689692	-1.06737	0.903377	-0.30407
AE003852	686250	69.076	25.918	42.234	49.892	26.664	0.139449	-1.3765	0.130862	1.434767	-0.948
AE003852	686750	84.684	29.338	40.674	41.864	33.878	1.633191	-0.90179	-0.07196	0.325192	0.232975
AE003852	687250	84.98	35.33	37.002	44.736	32.42	1.662684	-0.07078	-0.5508	0.723501	-0.00411
AE003852	687750	84.336	38.656	40.216	44.018	27.69	1.602288	0.390911	-0.12968	0.625177	-0.77624
AE003852	688250	76.908	40.772	53.174	43.026	30.156	0.893155	0.68498	1.564928	0.488948	-0.37166
AE003852	688750	75.444	42.69	53.496	42.622	28.966	0.754345	0.951621	1.608077	0.434062	-0.56492
AE003852	689250	72.116	52.526	44.184	35.196	32.926	0.437284	2.315135	0.39211	-0.59223	0.083951
AE003852	689750	56.63	45.932	40.608	46.758	37.05	-1.04242	1.402616	-0.07419	1.008233	0.759642
AE003852	690250	71.152	41.148	33.384	51.866	37.306	0.347475	0.740834	-1.01726	1.715866	0.802833
AE003852	690750	76.896	42.078	28.602	32.878	36.754	0.897948	0.870607	-1.64118	-0.9099	0.713899
AE003852	691250	66.848	45.052	52.836	50.186	32.318	-0.06173	1.283535	1.527146	1.485463	-0.01015
AE003852	691750	69.972	57.144	60.822	57.79	36.76	0.238199	2.959572	2.571942	2.538388	0.717539
AE003852	692250	75.278	47.474	49.014	45.264	46.06	0.746786	1.620936	1.02976	0.806567	2.239617
AE003852	692750	66.11	37.494	37.692	40.148	46.19	-0.12874	0.239356	-0.4489	0.099832	2.262204
AE003852	693250	65.89	36.562	40.082	31.234	31.452	-0.14859	0.111189	-0.13548	-1.13231	-0.14644
AE003852	693750	56.014	30.232	30.856	32.926	35.522	-1.09182	-0.76476	-1.3402	-0.89724	0.520418
AE003852	694250	65.276	28.854	28.028	36.696	38.202	-0.20493	-0.95471	-1.70874	-0.3747	0.959985
AE003852	694750	65.69	35.784	34.494	47.744	36.19	-0.16415	0.006238	-0.8626	1.154658	0.63231
AE003852	695250	71.114	32.332	34.98	35.546	36.08	0.355722	-0.47102	-0.79802	-0.53179	0.615652
AE003852	695750	70.528	49.052	35.226	36.842	31.462	0.300872	1.846127	-0.7648	-0.3515	-0.13816
AE003852	696250	71.004	44.04	36.592	38.386	32.78	0.347579	1.15276	-0.58521	-0.1369	0.078691
AE003852	696750	70.816	37.756	37.512	41.972	27.576	0.330789	0.283184	-0.4639	0.36018	-0.77094
AE003852	697250	66.796	38.674	36.842	41.244	25.684	-0.05245	0.411296	-0.55041	0.260472	-1.079
AE003852	697750	59.288	30.212	47.894	39.038	36.122	-0.76923	-0.76	0.895102	-0.0437	0.629168
AE003852	698250	60.216	35.292	49.584	42.258	40.946	-0.6793	-0.05533	1.117042	0.402752	1.419324
AE003852	698750	61.26	37.628	39.66	32.664	46.494	-0.57828	0.269219	-0.17891	-0.92346	2.32787
AE003852	699250	62.418	34.828	35.584	43.634	41.666	-0.46635	-0.11772	-0.71056	0.59511	1.539719
AE003852	699750	64.356	46.6	30.022	55.528	39.124	-0.27984	1.513986	-1.43642	2.241505	1.125377
AE003852	700250	56.04	38.812	44.98	40.69	41.488	-1.07389	0.436063	0.519584	0.189847	1.513271
AE003852	700750	79.212	40.568	46.988	50.466	36.302	1.143181	0.680262	0.783085	1.543243	0.666579

AE003852	701250	71.572	37.126	43.008	40.906	37.712	0.413775	0.204386	0.263984	0.221733	0.898474
AE003852	701750	66.014	31.948	42.638	41.412	40.608	-0.11653	-0.51198	0.216692	0.292734	1.373361
AE003852	702250	61.888	25.302	58.514	30.876	41.712	-0.50991	-1.4317	2.292672	-1.16379	1.555218
AE003852	702750	65.36	23.384	67.356	42.428	41.506	-0.1767	-1.69646	3.449343	0.435291	1.522862
AE003852	703250	68.786	41.404	57.014	30.636	27.59	0.152109	0.80078	2.098761	-1.19499	-0.75137
AE003852	703750	70.568	38.222	47.85	35.176	27.364	0.323705	0.360922	0.902137	-0.56593	-0.787
AE003852	704250	72.758	39.946	34.354	49.028	33.38	0.534317	0.600688	-0.86066	1.351329	0.198078
AE003852	704750	68.774	37.956	38.942	41.674	27.276	0.154525	0.325957	-0.25996	0.334993	-0.79873
AE003852	705250	57.622	44.374	45.558	37.67	30.816	-0.91072	1.215979	0.60578	-0.21791	-0.21853
AE003852	705750	70.51	35.324	32.36	32.74	27.816	0.322911	-0.03677	-1.11807	-0.89891	-0.70777
AE003852	706250	90.068	35.638	36.638	45.922	39.696	2.194381	0.007671	-0.55789	0.925661	1.236196
AE003852	706750	73.508	29.87	38.626	39.258	32.542	0.611978	-0.79042	-0.297	0.004778	0.067695
AE003852	707250	67.624	32.946	34.42	45.288	23.682	0.050494	-0.36337	-0.84564	0.839959	-1.37977
AE003852	707750	84.698	35.278	36.87	40.842	29.75	1.684425	-0.03937	-0.52437	0.22591	-0.3862
AE003852	708250	79.936	37.442	34.914	36.956	34.334	1.230235	0.261345	-0.77895	-0.31067	0.364714
AE003852	708750	70.31	35.81	35.596	35.528	39.344	0.310913	0.036207	-0.68875	-0.50721	1.185285
AE003852	709250	66.986	35.084	40.298	48.166	38.448	-0.00576	-0.06342	-0.07315	1.242105	1.040099
AE003852	709750	66.27	32.312	45.476	48.974	28.666	-0.07305	-0.44649	0.604652	1.354885	-0.55814
AE003852	710250	65.482	36.568	42.756	49.744	28.688	-0.14721	0.144037	0.250227	1.462408	-0.55321
AE003852	710750	67.332	49.854	42.01	37.766	35.744	0.030886	1.985477	0.153794	-0.1936	0.601927
AE003852	711250	81.808	43.998	38.204	40.044	41.274	1.416378	1.175192	-0.34257	0.122533	1.507529
AE003852	711750	73.566	44.154	39.79	43.416	36.074	0.629404	1.197744	-0.13422	0.590011	0.658548
AE003852	712250	53.172	41.314	45.84	42.078	29.854	-1.31964	0.805263	0.657553	0.405918	-0.35722
AE003852	712750	56.416	40.48	39.31	41.15	30.546	-1.00823	0.690671	-0.19482	0.278542	-0.24274
AE003852	713250	66.406	51.67	39.8	41.322	22.376	-0.05172	2.241754	-0.12971	0.303339	-1.57738
AE003852	713750	61.99	39.906	55.84	42.236	20.304	-0.47283	0.613039	1.967699	0.430782	-1.91486
AE003852	714250	69.672	47.65	67.854	52.708	29.524	0.262971	1.68675	3.538935	1.880461	-0.40587
AE003852	714750	72.998	47.574	44.15	44.852	26.098	0.582216	1.677164	0.442005	0.794679	-0.96476
AE003852	715250	70.654	34.49	36.758	47.978	21.552	0.359253	-0.13441	-0.52303	1.228127	-1.7068
AE003852	715750	56.69	37.374	41.818	36.41	23.836	-0.9749	0.26605	0.139355	-0.37117	-1.33199
AE003852	716250	59.924	29.814	28.792	36.826	35.42	-0.66445	-0.78029	-1.56201	-0.31262	0.563571
AE003852	716750	50.062	34.99	17.744	39.056	41.058	-1.60634	-0.06232	-3.00487	-0.00312	1.486834
AE003852	717250	51.4	31.458	29.702	35.064	26.572	-1.47721	-0.55066	-1.44095	-0.55436	-0.88061
AE003852	717750	56.1	33.06	44.512	39.282	24.596	-1.02657	-0.3278	0.49571	0.03015	-1.20239
AE003852	718250	58.672	29.904	30.674	41.662	26.572	-0.77943	-0.76406	-1.31178	0.360397	-0.87795
AE003852	718750	44.352	30.054	27.21	49.606	31.668	-2.14763	-0.74233	-1.76344	1.460358	-0.04331
AE003852	719250	45.656	34.146	35.596	40.134	33.498	-2.02174	-0.17453	-0.66637	0.151022	0.257261

AE003852	719750	67.616	35.788	40.054	28.968	43.404	0.079428	0.053876	-0.08267	-1.39266	1.878432
AE003852	720250	64.708	31.94	38.794	43.43	44.79	-0.19747	-0.47824	-0.24628	0.608989	2.106402
AE003852	720750	57.216	28.964	39.794	39.594	32.148	-0.91272	-0.88956	-0.11452	0.079326	0.040496
AE003852	721250	61.848	29.61	37.68	37.94	23.76	-0.46859	-0.79913	-0.38974	-0.14848	-1.32979
AE003852	721750	81.518	26.21	25.138	38.432	20.862	1.413594	-1.26919	-2.02785	-0.07942	-1.80235
AE003852	722250	71.448	21.614	36.646	21.522	30.642	0.451813	-1.90493	-0.52275	-2.41771	-0.20178
AE003852	722750	81.71	30.898	36.942	24.542	25.734	1.43433	-0.61788	-0.483	-1.99893	-1.00301
AE003852	723250	79.99	39.578	38.002	37.352	29.416	1.271039	0.585493	-0.34339	-0.22582	-0.3996
AE003852	723750	64.576	35.516	36.884	42.218	40.316	-0.20178	0.023729	-0.48845	0.44834	1.384115
AE003852	724250	60.734	31.798	34.46	35.14	33.058	-0.56799	-0.49038	-0.80419	-0.52981	0.198608
AE003852	724750	65.144	41.996	30.662	32.884	33.41	-0.14508	0.923282	-1.2995	-0.8409	0.257497
AE003852	725250	58.71	34.526	24.542	34.336	23.996	-0.75916	-0.11059	-2.09829	-0.63903	-1.28056
AE003852	725750	63.16	31.8	37.046	25.44	19.078	-0.33243	-0.48728	-0.46301	-1.86869	-2.08343
AE003852	726250	57.162	39.282	40.27	27.464	27.168	-0.90482	0.550138	-0.04059	-1.58769	-0.75921
AE003852	726750	44.148	37.244	36.082	33.378	24.814	-2.14813	0.268757	-0.58687	-0.76855	-1.14281
AE003852	727250	63.592	30.53	40.494	31.56	25.804	-0.28756	-0.66039	-0.00918	-1.01905	-0.9796
AE003852	727750	73.104	29.538	46.022	40.826	37.626	0.62324	-0.79687	0.714368	0.263792	0.95488
AE003852	728250	77.33	39.914	37.42	42.89	35.658	1.02855	0.641455	-0.4088	0.550324	0.6344
AE003852	728750	72.31	38.732	33.31	29.908	34.548	0.549688	0.478656	-0.9449	-1.24458	0.454221
AE003852	729250	62.566	57.002	38.736	29.888	36.778	-0.38092	3.010525	-0.23468	-1.24634	0.820203
AE003852	729750	71.302	36.692	40.614	32.802	33.61	0.455671	0.197939	0.011831	-0.84222	0.303497
AE003852	730250	85.15	41.83	39.112	39.606	35.118	1.781109	0.910644	-0.18341	0.100032	0.551417
AE003852	730750	98.432	32.926	43.534	40.3	36.966	3.052421	-0.32188	0.395592	0.197041	0.854934
AE003852	731250	81.878	45.544	43.322	60.012	31.404	1.470592	1.427025	0.36895	2.924963	-0.05324
AE003852	731750	78.69	39.586	54.552	44.02	30.508	1.166919	0.60261	1.837721	0.713663	-0.19843
AE003852	732250	85.26	32.488	50.922	29.53	27.464	1.79638	-0.37973	1.364363	-1.28985	-0.69486
AE003852	732750	78.922	32.478	53.646	36.164	36.166	1.191481	-0.38017	1.721442	-0.37112	0.729435
AE003852	733250	68.072	36.54	28.446	29.048	38.114	0.155111	0.183475	-1.57101	-1.35453	1.049304
AE003852	733750	57.136	32.34	19.31	30.592	29.368	-0.88948	-0.39741	-2.76397	-1.13993	-0.37952
AE003852	734250	60.316	32.462	23.916	44.276	24.362	-0.5842	-0.37956	-2.16093	0.754089	-1.19678
AE003852	734750	65.706	39.498	33.292	53.304	35.576	-0.06758	0.596069	-0.93446	2.004008	0.638276
AE003852	735250	55.666	52.056	32.588	41.722	34.948	-1.02649	2.33666	-1.02541	0.402779	0.536914
AE003852	735750	64.248	50.85	29.954	49.662	27.518	-0.20463	2.170536	-1.36859	1.502185	-0.67672
AE003852	736250	55.288	42.788	32.034	43.982	35.464	-1.06026	1.054655	-1.09568	0.717428	0.62395
AE003852	736750	62.782	35.008	43.93	38.296	30.474	-0.34244	-0.02216	0.460133	-0.06816	-0.19069
AE003852	737250	68.704	47.532	43.446	34.416	30.106	0.225051	1.713721	0.397942	-0.60391	-0.24954
AE003852	737750	58.776	43.336	26.438	27.344	38.994	-0.72315	1.133394	-1.82385	-1.58123	1.205169

AE003852	738250	66.146	30.118	37.448	25.636	38.356	-0.01719	-0.69674	-0.38384	-1.81651	1.102172
AE003852	738750	53.228	27.694	49.616	30.754	33.438	-1.25132	-1.0316	1.207526	-1.1075	0.299304
AE003852	739250	49.758	29.062	42.32	42.598	30.924	-1.58196	-0.84115	0.255041	0.531982	-0.11046
AE003852	739750	60.596	24.068	34.032	47.724	31.318	-0.54436	-1.53202	-0.82709	1.242105	-0.0447
AE003852	740250	76.452	35.598	45.954	47.046	35.852	0.973101	0.066163	0.732118	1.149314	0.698033
AE003852	740750	66.136	43.426	46.904	44.838	40.58	-0.0122	1.151512	0.857343	0.844866	1.472491
AE003852	741250	60.344	40.508	44.52	46.608	37.93	-0.56489	0.748225	0.546832	1.090727	1.04049
AE003852	741750	71.084	39.858	35.902	36.912	37.134	0.463337	0.659123	-0.57843	-0.2496	0.911656
AE003852	742250	73.554	33.574	37.656	32.314	45.114	0.700724	-0.21045	-0.34813	-0.88467	2.217886
AE003852	742750	53.816	38.268	33.604	39.556	36.516	-1.18558	0.440745	-0.87664	0.118174	0.81326
AE003852	743250	51.75	25.894	36.842	50.654	36.35	-1.38196	-1.27247	-0.45238	1.654453	0.787445
AE003852	743750	64.23	26.714	56.11	55.084	33.556	-0.18734	-1.15794	2.066914	2.268293	0.331896
AE003852	744250	72.57	36.592	61.446	35.284	32.018	0.611379	0.211395	2.765369	-0.4698	0.08173
AE003852	744750	68.886	40.346	48.598	54.01	35.308	0.260275	0.732375	1.087264	2.121722	0.621044
AE003852	745250	59.694	36.302	27.402	35.584	28.448	-0.61754	0.173105	-1.68188	-0.42629	-0.49938
AE003852	745750	52.51	33.3	32.908	40.028	31.946	-1.30334	-0.24182	-0.96121	0.189484	0.073945
AE003852	746250	45.806	39.062	36.056	40.794	43.152	-1.94324	0.557329	-0.54872	0.296453	1.907694
AE003852	746750	47.926	40.974	38.66	37.476	27.21	-1.73933	0.823138	-0.20732	-0.16155	-0.69783
AE003852	747250	57.642	42.654	35.324	35.782	46.604	-0.80902	1.056809	-0.64225	-0.39489	2.474828
AE003852	747750	52.986	40.702	42.052	44.656	43.372	-1.25307	0.787341	0.238127	0.833722	1.947657
AE003852	748250	70.59	33.028	37.932	46.586	25.146	0.431541	-0.27479	-0.29927	1.101717	-1.03135
AE003852	748750	67.452	36.49	40.964	42.656	36.284	0.132649	0.20574	0.098062	0.559051	0.791278
AE003852	749250	88.778	44.588	29.698	49.188	37.454	2.173189	1.328491	-1.37328	1.463678	0.983927
AE003852	749750	77.77	50.766	32.354	43.436	30.008	1.12171	2.185266	-1.02509	0.668959	-0.23232
AE003852	750250	79.53	51.872	40.774	42.386	29.04	1.291202	2.339421	0.076426	0.524707	-0.38928
AE003852	750750	59.598	49.024	47.524	38.47	27.244	-0.61366	1.945831	0.959683	-0.01602	-0.68164
AE003852	751250	52.862	45.328	46.55	34.784	31.352	-1.25662	1.434769	0.833452	-0.52493	-0.00856
AE003852	751750	62.83	33.802	48.024	39.71	28.29	-0.30221	-0.16098	1.027162	0.157521	-0.50793
AE003852	752250	62.3	40.838	35.184	38.708	25.288	-0.35171	0.814656	-0.6499	0.019909	-0.99749
AE003852	752750	59.014	44.1	24.188	38.474	26.326	-0.66475	1.26748	-2.08595	-0.01146	-0.82643
AE003852	753250	57.476	35.052	49.224	47.63	34.364	-0.81064	0.01501	1.187192	1.256166	0.489283
AE003852	753750	60.136	31.982	36.834	41.002	33.418	-0.55508	-0.40933	-0.43105	0.340263	0.335922
AE003852	754250	64.918	18.388	31.922	38.778	33.992	-0.0966	-2.29156	-1.07196	0.033602	0.431113
AE003852	754750	64.054	35.31	41.528	31.546	35.674	-0.17804	0.053575	0.18456	-0.96586	0.707485
AE003852	755250	80.246	33.13	48.102	38.052	28.122	1.371552	-0.24748	1.044814	-0.06483	-0.5261
AE003852	755750	74.56	29.668	36.516	29.566	34.61	0.829002	-0.72612	-0.46835	-1.23776	0.536158
AE003852	756250	63.384	20.632	32.032	28.484	24.752	-0.23854	-1.97693	-1.05332	-1.38644	-1.07451

AE003852	756750	48.544	32.526	36.234	24.772	20.578	-1.65647	-0.32832	-0.50308	-1.89895	-1.75571
AE003852	757250	54.23	38.87	35.868	34.48	35.976	-1.11154	0.551448	-0.54985	-0.55496	0.763516
AE003852	757750	64.414	37.066	44.052	37.474	30.462	-0.13648	0.302483	0.520827	-0.13977	-0.13681
AE003852	758250	64.764	34.696	46.684	48.298	25.636	-0.10183	-0.02489	0.865881	1.3586	-0.92463
AE003852	758750	62.466	31.41	33.2	44.898	39.852	-0.32039	-0.47916	-0.89534	0.889252	1.401314
AE003852	759250	62.808	28.59	32.59	43.214	32.72	-0.2865	-0.86887	-0.974	0.657293	0.23641
AE003852	759750	53.878	33.258	44.012	34.83	34.148	-1.13926	-0.22127	0.519861	-0.50153	0.471248
AE003852	760250	49.552	38.244	40.846	39.4	36.332	-1.55176	0.470378	0.107146	0.131677	0.829708
AE003852	760750	67.078	39.882	38.484	54.768	33.414	0.125397	0.698231	-0.20049	2.258659	0.353882
AE003852	761250	72.582	24.966	38.15	34.874	36.132	0.652918	-1.36713	-0.24308	-0.49244	0.799663
AE003852	761750	66.234	26.422	39.486	32.572	32.028	0.047063	-1.16449	-0.0674	-0.80989	0.129901
AE003852	762250	78.134	33.208	27.846	38.156	43.568	1.186218	-0.22349	-1.58763	-0.03641	2.018266
AE003852	762750	79.114	44.586	38.608	50.062	37.146	1.281121	1.353639	-0.18002	1.611649	0.969462
AE003852	763250	132.896	72.474	82.642	80.362	58.124	6.425347	5.217882	5.576068	5.804296	4.40114
AE003852	763750	188.714	102.828	119.956	112.652	87.756	11.76427	9.423739	10.45389	10.27223	9.247931
AE003852	764250	141.928	85.15	98.416	101.444	78.082	7.291431	6.975762	7.639782	8.722744	7.667357
AE003852	764750	192.364	95.868	102.452	104.432	95.862	12.11569	8.461459	8.168333	9.1371	10.57609
AE003852	765250	146.528	85.218	102.178	114.876	83.298	7.733693	6.987065	8.133588	10.58291	8.522943
AE003852	765750	98.402	61.782	68.016	100.052	63.778	3.132712	3.741437	3.66985	8.533184	5.332337
AE003852	766250	141.738	86.398	98.112	127.444	94.76	7.278014	7.152413	7.604313	12.32354	10.39988
AE003852	766750	147.384	75.888	101.61	119.824	95.686	7.819115	5.697413	8.06255	11.27041	10.55263
AE003852	767250	132.828	67.102	90.862	114.488	84.4	6.428349	4.481237	6.658905	10.53324	8.708461
AE003852	767750	78.562	49.298	70.044	71.082	48.31	1.240215	2.015805	3.939161	4.52954	2.808309
AE003852	768250	56.802	28.8	40	40.976	30.15	-0.83945	-0.82282	0.013625	0.365736	-0.15991
AE003852	768750	66.668	34.568	40.35	40.512	36.158	0.105197	-0.02285	0.060434	0.302549	0.823858
AE003852	769250	65.502	34.522	40.494	36.36	33.65	-0.00512	-0.02828	0.080319	-0.27083	0.415076
AE003852	769750	77.742	37.664	38.402	38.118	30.388	1.166552	0.407923	-0.19203	-0.02663	-0.117
AE003852	770250	79.81	36.316	40.984	45.212	27.076	1.365498	0.222128	0.146491	0.955745	-0.65725
AE003852	770750	66.972	36.312	40.724	44.93	23.406	0.13902	0.222515	0.113576	0.917736	-1.25605
AE003852	771250	73.908	39.098	41.038	45.744	26.88	0.80348	0.609399	0.155679	1.031346	-0.68664
AE003852	771750	65.24	42.946	41.26	51.212	22.006	-0.02423	1.143401	0.185759	1.788781	-1.48232
AE003852	772250	59.518	32.268	35.578	37.426	32.994	-0.57022	-0.33487	-0.55578	-0.11735	0.315784
AE003852	772750	68.048	33.554	30.374	32.178	39.824	0.246667	-0.15578	-1.23486	-0.84234	1.433964
AE003852	773250	67.354	22.526	38.998	42.15	22.568	0.18149	-1.68254	-0.10668	0.538168	-1.38643
AE003852	773750	55.316	29.786	49.824	38.61	23.602	-0.96849	-0.67588	1.309293	0.049454	-1.21602
AE003852	774250	48.864	30.968	38.622	36.692	31.344	-1.58429	-0.51119	-0.15369	-0.21488	0.051292
AE003852	774750	58.536	25.23	48.626	23.542	31.36	-0.65819	-1.30513	1.154851	-2.03302	0.055238

AE003852	775250	60.64	23.016	35.022	27.522	32.212	-0.4558	-1.61089	-0.62206	-1.48143	0.195888
AE003852	775750	66.716	29.262	33.762	40.994	34.522	0.12642	-0.7447	-0.78567	0.383262	0.574952
AE003852	776250	61.358	34.674	38.818	54.924	33.97	-0.38476	0.005963	-0.12381	2.311313	0.486018
AE003852	776750	63.462	39.73	37.014	60.168	26.16	-0.18238	0.707308	-0.35852	3.037761	-0.78975
AE003852	777250	59.028	33.012	32.898	45.704	35.952	-0.6052	-0.22239	-0.89539	1.037841	0.812776
AE003852	777750	54.26	24.972	25.064	40.064	26.756	-1.05996	-1.33522	-1.91819	0.258617	-0.68964
AE003852	778250	55.308	37.33	32.824	38.444	25.82	-0.95856	0.377663	-0.90293	0.035511	-0.84136
AE003852	778750	63.776	32.602	34.5	34.93	30.544	-0.1476	-0.27636	-0.68282	-0.44961	-0.06756
AE003852	779250	70.524	37.582	35.856	29.796	32.342	0.498885	0.414456	-0.50454	-1.15883	0.227783
AE003852	779750	74.2	39.344	37.35	38.692	38.162	0.8516	0.659486	-0.30821	0.072826	1.180806
AE003852	780250	62.864	47.83	43.114	36.376	37.49	-0.23125	1.835986	0.44618	-0.24656	1.072249
AE003852	780750	53.002	32.332	40.538	29.382	30.234	-1.17314	-0.31	0.110576	-1.2131	-0.11293
AE003852	781250	57.624	33.42	50.576	31.988	30.946	-0.72996	-0.15834	1.423558	-0.85159	0.004825
AE003852	781750	66.946	36.462	44.548	41.962	27.926	0.16267	0.264011	0.636793	0.529201	-0.48768
AE003852	782250	55.83	44.204	39.134	40.164	22.496	-0.89914	1.337446	-0.06972	0.281472	-1.37427
AE003852	782750	53.73	42.918	37.42	37.69	17.178	-1.09877	1.160239	-0.29267	-0.05977	-2.24255
AE003852	783250	72.648	43.06	40.736	43.65	24.02	0.711502	1.180852	0.14178	0.765723	-1.1224
AE003852	783750	69.606	44.674	39.544	32.124	34.012	0.421791	1.40538	-0.01294	-0.82776	0.51283
AE003852	784250	74.308	38.136	39.766	29.186	32.36	0.872619	0.500617	0.017137	-1.23319	0.244022
AE003852	784750	69.236	39.528	38.688	29.63	23.118	0.388785	0.694392	-0.12269	-1.17077	-1.26591
AE003852	785250	57.86	37.442	46.496	27.402	17.104	-0.69789	0.406361	0.898846	-1.47798	-2.248
AE003852	785750	60.566	46.296	50.56	38.74	23.884	-0.43793	1.633841	1.431056	0.091495	-1.138
AE003852	786250	57.532	37.046	52.972	44.688	19.444	-0.72688	0.353387	1.747358	0.915332	-1.8627
AE003852	786750	64.77	30.834	44.884	51.746	26.314	-0.03354	-0.50621	0.691362	1.892725	-0.73798
AE003852	787250	66.476	48.114	37.942	45.492	33.802	0.130793	1.888512	-0.21486	1.028561	0.487797
AE003852	787750	64.706	45.348	39.688	43.97	40.574	-0.03728	1.506282	0.014401	0.819013	1.596493
AE003852	788250	70.088	26.672	46.118	41.594	33.204	0.478575	-1.07995	0.855836	0.491324	0.392671
AE003852	788750	60.238	31.852	41.894	37.78	26.226	-0.46217	-0.36143	0.304845	-0.0353	-0.74705
AE003852	789250	56.912	32.664	52.536	46.884	33.206	-0.77904	-0.248	1.696767	1.225137	0.395657
AE003852	789750	53.882	33.108	58.962	38.816	34.872	-1.0676	-0.18555	2.537679	0.110028	0.669413
AE003852	790250	68.174	19.844	41.564	39.412	35.908	0.300296	-2.02206	0.264912	0.19348	0.840151
AE003852	790750	50.644	26.816	36.152	43.38	27.898	-1.37487	-1.05529	-0.44134	0.743408	-0.46832
AE003852	791250	55.842	40.618	35.482	37.084	36.902	-0.87661	0.85763	-0.52784	-0.12657	1.00535
AE003852	791750	57.246	43.902	35.068	26.878	34.544	-0.74116	1.313502	-0.58089	-1.53744	0.621096
AE003852	792250	53.95	40.866	44.112	30.108	33.128	-1.05516	0.893869	0.602185	-1.08961	0.39088
AE003852	792750	70.778	33.748	39.646	41.108	31.378	0.55525	-0.09124	0.019567	0.433113	0.106047
AE003852	793250	73.628	43.588	45.93	59.198	35.448	0.828977	1.272829	0.84192	2.936651	0.772908

AE003852	793750	77.218	42.434	48	47.072	27.166	1.173467	1.113908	1.113524	1.260166	-0.58004
AE003852	794250	56.058	32.144	36.852	35.088	36.698	-0.84882	-0.31062	-0.3424	-0.39668	0.979969
AE003852	794750	55.97	29.576	36.66	43.578	34.382	-0.85605	-0.66542	-0.36643	0.778818	0.602584
AE003852	795250	71.992	31.526	35.132	42.296	33.478	0.677282	-0.39434	-0.56506	0.602471	0.45609
AE003852	795750	75.608	30.702	42.058	34.57	37.422	1.024259	-0.50755	0.341196	-0.46533	1.102347
AE003852	796250	62.526	30.314	41.022	35.888	37.014	-0.22555	-0.56036	0.206861	-0.282	1.03696
AE003852	796750	74.572	41.056	42.772	44.736	42.872	0.927565	0.928664	0.436643	0.943023	1.996197
AE003852	797250	74.244	31.006	39.252	38.508	41.686	0.897387	-0.46261	-0.02234	0.082455	1.803591
AE003852	797750	67.064	29.812	37.868	36.512	40.094	0.21197	-0.62707	-0.20215	-0.19266	1.544595
AE003852	798250	61.302	33.108	28.99	43.656	31.716	-0.33785	-0.16954	-1.3614	0.796625	0.175943
AE003852	798750	58.944	33.446	34.362	32.652	29.576	-0.56215	-0.12178	-0.65824	-0.72465	-0.17266
AE003852	799250	59.684	32.54	44.602	28.108	27.31	-0.4902	-0.24634	0.681142	-1.35225	-0.54187
AE003852	799750	63.146	33.376	47.744	49.828	32.664	-0.15795	-0.12959	1.092851	1.653454	0.33495
AE003852	800250	65.156	35.332	38.596	39.398	34.834	0.035453	0.142315	-0.10168	0.211591	0.691121
AE003852	800750	60.652	32.898	34.078	41.658	26.574	-0.39407	-0.19392	-0.6911	0.525237	-0.65824
AE003852	801250	70.888	37.616	37.54	42.562	42.85	0.585965	0.460599	-0.23756	0.651297	2.004566
AE003852	801750	80.862	40.208	31.49	36.208	43.162	1.540942	0.820608	-1.0272	-0.2267	2.056915
AE003852	802250	71.216	42.132	44.528	41.342	45.712	0.619707	1.08808	0.677863	0.484529	2.475223
AE003852	802750	78.462	40.978	37.088	46.818	38.424	1.313812	0.929159	-0.29344	1.243071	1.28481
AE003852	803250	69.202	41.662	51.966	42.426	34.704	0.429489	1.024855	1.652104	0.636493	0.677841
AE003852	803750	61.52	47.778	49.614	35.662	27.64	-0.30393	1.873041	1.345775	-0.29822	-0.47594
AE003852	804250	54.17	44.668	39.47	42.032	26.488	-1.00561	1.443157	0.02107	0.583992	-0.66299
AE003852	804750	45.188	33.776	38.592	38.706	27.29	-1.86335	-0.06476	-0.09261	0.124882	-0.53052
AE003852	805250	65.906	34.522	48.212	44.544	22.154	0.119053	0.039523	1.165737	0.933502	-1.36903
AE003852	805750	80.404	37.7	42.658	40.694	21.812	1.506649	0.48071	0.440922	0.401903	-1.42363
AE003852	806250	73.23	38.916	29.808	34.92	28.046	0.821805	0.650104	-1.23744	-0.39586	-0.40291
AE003852	806750	63.844	34.104	38.624	28.426	38.888	-0.07457	-0.01556	-0.08417	-1.29322	1.371321
AE003852	807250	59.514	30.586	46.568	27.376	37.91	-0.48745	-0.50196	0.955136	-1.43748	1.212727
AE003852	807750	57.79	26.18	49.674	36.006	25.292	-0.65112	-1.11138	1.36214	-0.24262	-0.84925
AE003852	808250	47.608	35.09	41.46	44.182	27.722	-1.62361	0.123858	0.289677	0.889438	-0.45057
AE003852	808750	52.102	40.296	33.716	43.846	35.856	-1.19267	0.845982	-0.72136	0.843959	0.880843
AE003852	809250	68.834	22.992	41.848	40.396	39.466	0.408554	-1.55019	0.342517	0.367695	1.472484
AE003852	809750	66.558	34.68	45.85	38.566	39.856	0.192094	0.069886	0.866624	0.115539	1.537587
AE003852	810250	47.602	47.138	50.622	42.266	35.35	-1.61943	1.796624	1.491366	0.628392	0.80209
AE003852	810750	57.79	38.422	27.524	39.426	24.37	-0.64399	0.590145	-1.52636	0.236514	-0.99204
AE003852	811250	58.868	47.93	26.238	39.812	27.512	-0.53972	1.908222	-1.69337	0.290915	-0.47693
AE003852	811750	64.148	31.066	29.196	39.03	32.088	-0.03362	-0.42699	-1.30571	0.183737	0.272672

AE003852	812250	61.146	41.208	37.066	23.552	38.824	-0.3195	0.978912	-0.27607	-1.95646	1.375481
AE003852	812750	48.876	35.502	39.394	25.894	32.916	-1.49166	0.189407	0.02925	-1.63147	0.410727
AE003852	813250	55.812	41.234	39.246	25.492	26.61	-0.8272	0.984398	0.010972	-1.68608	-0.61911
AE003852	813750	51.89	35.494	43.908	30.912	25.064	-1.20107	0.190182	0.621338	-0.93528	-0.87058
AE003852	814250	60.148	25.484	41.646	39.484	33.628	-0.41019	-1.19555	0.326771	0.251554	0.531143
AE003852	814750	50.908	33.338	33.124	52.146	44.514	-1.2926	-0.1066	-0.78595	2.004194	2.312565
AE003852	815250	47.502	37.476	39.704	47.556	34.194	-1.61712	0.467572	0.075093	1.370224	0.626355
AE003852	815750	67.276	31.942	35.518	41.76	33.496	0.275011	-0.29811	-0.47093	0.569419	0.513547
AE003852	816250	67.426	48.902	39.198	36.898	26.442	0.290543	2.052289	0.011092	-0.10218	-0.6386
AE003852	816750	53.1	29.094	32.248	50.68	31.438	-1.07823	-0.69076	-0.89617	1.805399	0.17968
AE003852	817250	47.722	35.44	47.21	34.076	28.612	-1.59133	0.189293	1.060351	-0.49056	-0.2811
AE003852	817750	51.704	36.32	49.442	46.124	27.372	-1.20935	0.31214	1.353128	1.177136	-0.48254
AE003852	818250	76.596	31.902	42.764	49.786	33.39	1.172199	-0.29894	0.481412	1.684732	0.502862
AE003852	818750	76.32	29.352	44.874	44.068	34.82	1.146994	-0.65125	0.758244	0.894718	0.738027
AE003852	819250	58.852	33.4	32.864	36.282	26.268	-0.52224	-0.08954	-0.81034	-0.18138	-0.65908
AE003852	819750	52.404	30.586	34.212	25.572	25.336	-1.13766	-0.47842	-0.6331	-1.66198	-0.81015
AE003852	820250	69.142	29.172	26.752	32.84	23.892	0.464144	-0.67336	-1.60701	-0.65554	-1.04494
AE003852	820750	71.522	34.086	38.51	35.074	30.438	0.692925	0.008316	-0.06924	-0.34549	0.026795
AE003852	821250	74.348	32.694	37.67	45.136	37.46	0.964356	-0.18358	-0.17796	1.047475	1.176371
AE003852	821750	52.442	41.374	29.538	40.194	35.2	-1.12927	1.0198	-1.2397	0.36481	0.808142
AE003852	822250	61.584	49.054	32.794	40.846	36.55	-0.25386	2.084646	-0.81309	0.456009	1.030226
AE003852	822750	64.268	40.416	49.498	49.096	35.194	0.003995	0.888972	1.371102	1.598301	0.809821
AE003852	823250	57.976	38.764	41.904	29.198	27.482	-0.5965	0.661064	0.379669	-1.15335	-0.44993
AE003852	823750	52.504	25.966	30.386	28.444	25.71	-1.11859	-1.11089	-1.12461	-1.25665	-0.73836
AE003852	824250	63.12	33.426	42.712	41.818	33.46	-0.10222	-0.07652	0.487402	0.594483	0.530264
AE003852	824750	67.336	40.652	33.46	34.476	28.666	0.302132	0.925432	-0.72072	-0.42019	-0.25233
AE003852	825250	69.776	36.422	37.332	53.292	33.036	0.536651	0.340395	-0.21361	2.183779	0.46359
AE003852	825750	63.766	37.078	52.028	45.104	29.818	-0.03688	0.432212	1.708153	1.052069	-0.06129
AE003852	826250	54.382	33.144	48.348	44.024	25.3	-0.93306	-0.11182	1.228261	0.903666	-0.79875
AE003852	826750	59.83	42.306	30.198	27.224	37.14	-0.4109	1.158326	-1.14279	-1.41941	1.13867
AE003852	827250	53.404	35.398	29.136	38.244	34.724	-1.02421	0.202308	-1.28052	0.106077	0.744932
AE003852	827750	64.276	34.876	28.986	42.548	25.944	0.01664	0.130937	-1.29906	0.702487	-0.68945
AE003852	828250	62.284	35.612	38.318	40.888	30.148	-0.17266	0.233837	-0.07835	0.473848	-0.00068
AE003852	828750	62.162	33.73	36.024	47.33	36.794	-0.18314	-0.02593	-0.3771	1.366024	1.08741
AE003852	829250	55.25	29.37	43.894	37.972	30.448	-0.84293	-0.62898	0.652538	0.072459	0.051034
AE003852	829750	66.006	37.394	37.748	38.704	35.318	0.186828	0.483521	-0.14965	0.174725	0.848712
AE003852	830250	72.302	38.384	43.386	34.634	28.196	0.790087	0.621606	0.588275	-0.38731	-0.31456

AE003852	830750	80.89	26.544	37.59	30.486	29.426	1.612523	-1.01764	-0.16817	-0.96013	-0.1121
AE003852	831250	86.69	35.82	42.16	31.924	22.316	2.168351	0.268301	0.430174	-0.7602	-1.2734
AE003852	831750	79.556	42.584	40.25	38.558	32.78	1.487332	1.206254	0.181612	0.158537	0.439013
AE003852	832250	67.612	38.246	42.266	43.492	30.814	0.346346	0.606256	0.446159	0.842099	0.11886
AE003852	832750	54.178	49.714	47.442	34.52	31.096	-0.93713	2.19585	1.123702	-0.39807	0.166302
AE003852	833250	57.764	47.474	40.854	32.19	35.028	-0.59302	1.886486	0.263748	-0.71939	0.810598
AE003852	833750	51.632	32.946	32.252	35.476	34.964	-1.17822	-0.12512	-0.85942	-0.26381	0.801462
AE003852	834250	45.99	32.302	25.328	37.95	29.092	-1.71656	-0.2134	-1.76329	0.079439	-0.15741
AE003852	834750	56.752	35.198	33.784	41.664	30.552	-0.68623	0.188727	-0.65707	0.594229	0.082665
AE003852	835250	55.794	33.684	41.144	32.922	34.742	-0.77665	-0.02006	0.305912	-0.61412	0.769149
AE003852	835750	50.524	31.808	47.298	34.972	30.686	-1.27942	-0.279	1.111274	-0.32952	0.107236
AE003852	836250	62.024	31.76	36.232	34.278	30.716	-0.17852	-0.28471	-0.33393	-0.42453	0.113472
AE003852	836750	52.302	28.994	36.71	30.36	27.146	-1.10702	-0.66694	-0.27039	-0.96554	-0.46897
AE003852	837250	67.748	24.668	37.044	26.722	31.254	0.371231	-1.26528	-0.22568	-1.46781	0.204105
AE003852	837750	78.51	22.98	47.384	35.4	25.904	1.401562	-1.49817	1.126776	-0.26631	-0.6694
AE003852	838250	61.154	21.272	34.324	37.608	32.784	-0.25696	-1.73384	-0.57904	0.040146	0.456952
AE003852	838750	68.132	25.738	29.41	46.866	29.384	0.411516	-1.11423	-1.22021	1.321883	-0.09769
AE003852	839250	72.41	46.952	40.89	33.436	28.46	0.821798	1.825474	0.281239	-0.535	-0.24745
AE003852	839750	67.14	37.914	37.554	35.384	24.462	0.319029	0.574389	-0.15369	-0.26451	-0.89988
AE003852	840250	71.64	27.704	38.38	34.334	23.412	0.750541	-0.83905	-0.04467	-0.40876	-1.07025
AE003852	840750	74.938	19.542	47.758	36.468	19.316	1.067109	-1.96879	1.182049	-0.11255	-1.7387
AE003852	841250	69.354	20.68	41.508	38.498	30.366	0.534313	-1.8102	0.36627	0.169282	0.069535
AE003852	841750	74.786	25.088	35.696	30.134	19.52	1.054949	-1.19862	-0.39226	-0.98678	-1.70269
AE003852	842250	62.088	30.594	26.082	34.68	27.124	-0.15814	-0.43494	-1.6477	-0.35689	-0.45794
AE003852	842750	63.502	37.008	26.01	34.486	34.614	-0.02174	0.454532	-1.65604	-0.38272	0.768162
AE003852	843250	61.378	26.45	31.688	39.758	37.16	-0.22366	-1.00712	-0.91289	0.347597	1.185817
AE003852	843750	61.724	28.406	39.244	44.102	28.546	-0.18939	-0.73521	0.075704	0.94954	-0.22143
AE003852	844250	61.204	31.852	37.162	31.146	29.908	-0.23792	-0.2569	-0.19534	-0.84177	0.00262
AE003852	844750	73.914	42.374	34.396	33.916	33.518	0.97869	1.201646	-0.55577	-0.45757	0.594261
AE003852	845250	72.652	53.632	42.018	47.026	29.9	0.859196	2.762149	0.441448	1.357048	0.003971
AE003852	845750	55.428	48.482	32.448	35.88	27.474	-0.7867	2.049666	-0.80824	-0.18387	-0.3914
AE003852	846250	50.926	34.746	28.362	37.974	29.888	-1.21603	0.14777	-1.34119	0.106816	0.004668
AE003852	846750	47.3	30.5	39.324	32.748	28.472	-1.56159	-0.43948	0.092552	-0.61514	-0.22555
AE003852	847250	55.548	25.372	36.276	35.728	33.044	-0.77166	-1.14892	-0.30474	-0.20189	0.5234
AE003852	847750	76.004	26.138	48.6	43.516	37.686	1.185679	-1.04186	1.30701	0.876493	1.283796
AE003852	848250	74.228	17.934	38.386	36.714	35.262	1.017033	-2.17742	-0.02684	-0.06348	0.88875
AE003852	848750	71.85	19	33.962	37.202	29.94	0.790819	-2.0288	-0.60397	0.005031	0.019819

AE003852	849250	63.618	29.584	37.07	38.596	27.558	0.004801	-0.56167	-0.19671	0.198877	-0.36836
AE003852	849750	64.816	32.018	38.604	39.282	22.318	0.120551	-0.22355	0.004845	0.294779	-1.22388
AE003852	850250	61.786	44.044	29.014	34.266	29.724	-0.16801	1.443348	-1.24746	-0.39812	-0.01151
AE003852	850750	68.262	33.4	30.42	34.512	36.728	0.452459	-0.03021	-1.06263	-0.36309	1.13512
AE003852	851250	54.412	26.878	33.038	26.994	28.304	-0.87079	-0.93276	-0.71941	-1.40211	-0.24105
AE003852	851750	51.73	30.14	46.214	25.304	29.648	-1.12608	-0.47994	1.003696	-1.6349	-0.01995
AE003852	852250	65.35	44.084	36.34	38.55	26.956	0.177556	1.452656	-0.28572	0.198528	-0.45882
AE003852	852750	64.01	44.786	23.08	34.968	15.97	0.050603	1.550845	-2.01767	-0.296	-2.25394
AE003852	853250	56.346	41.49	37.198	35.98	22.816	-0.6811	1.095194	-0.17145	-0.155	-1.13314
AE003852	853750	58.268	29.906	44.988	37.756	25.336	-0.49611	-0.50859	0.847726	0.091694	-0.71974
AE003852	854250	49.132	28.57	54.054	42.982	29.184	-1.36858	-0.69272	2.033672	0.815652	-0.08918
AE003852	854750	62.012	30.89	45.29	32.03	31.884	-0.13571	-0.37039	0.889326	-0.69842	0.35366
AE003852	855250	72.668	29.6	45.06	33.9	36.454	0.884486	-0.54815	0.860332	-0.43873	1.102281
AE003852	855750	64.068	23.762	27.61	42.46	41.834	0.063278	-1.35594	-1.41923	0.746446	1.983355
AE003852	856250	54.678	37.852	30.294	35.302	33.666	-0.83348	0.596875	-1.06738	-0.24278	0.649043
AE003852	856750	58.912	34.638	30.148	37.778	34.71	-0.4274	0.152584	-1.0854	0.100752	0.821089
AE003852	857250	58.19	37.18	34.77	57.294	34.3	-0.49526	0.505667	-0.48026	2.80156	0.755375
AE003852	857750	64.072	39.782	34.106	45.786	34.3	0.068412	0.867062	-0.56597	1.210568	0.756705
AE003852	858250	73.92	28.248	26.046	34.388	24.566	1.01134	-0.72979	-1.61831	-0.36521	-0.83368
AE003852	858750	54.116	22.968	26.518	26.362	20.728	-0.88128	-1.46028	-1.55556	-1.47451	-1.45995
AE003852	859250	56.858	37.174	33.364	31.874	23.944	-0.61788	0.508603	-0.65975	-0.71098	-0.93273
AE003852	859750	55.84	26.928	27.15	35.662	20.576	-0.71404	-0.90983	-1.47083	-0.18596	-1.48214
AE003852	860250	53.382	24.324	29.588	40.138	26.158	-0.94791	-1.26961	-1.15113	0.434247	-0.56804
AE003852	860750	60.536	40.504	33.07	35.856	29.05	-0.2626	0.97273	-0.69498	-0.15711	-0.0938
AE003852	861250	57.694	33.132	44.812	46.292	27.482	-0.53318	-0.04757	0.840705	1.287584	-0.34888
AE003852	861750	49.936	33.084	28.984	39.176	27.046	-1.27387	-0.05327	-1.22687	0.304173	-0.41884
AE003852	862250	60.9	32.938	33.67	47.838	29.024	-0.22423	-0.07256	-0.61337	1.503459	-0.09407
AE003852	862750	63.022	32.45	43.648	34.656	32.544	-0.02012	-0.13922	0.691772	-0.31911	0.482857
AE003852	863250	53.34	32.118	40.558	25.106	32.588	-0.94479	-0.18427	0.28899	-1.63924	0.491382
AE003852	863750	58.988	42.24	44.68	42.384	31.076	-0.4035	1.218866	0.828781	0.751971	0.245467
AE003852	864250	53.358	40.744	34.848	34.268	29.296	-0.9407	1.012568	-0.45515	-0.36978	-0.04427
AE003852	864750	61.268	37.122	23.47	34.136	32.894	-0.1831	0.511757	-1.94113	-0.38704	0.545408
AE003852	865250	65.304	30.498	36.088	33.36	34.266	0.204045	-0.40492	-0.29095	-0.49339	0.771089
AE003852	865750	69.438	34.672	46.288	36.572	33.056	0.600557	0.174244	1.0432	-0.04804	0.574558
AE003852	866250	82.576	41.624	56.226	56.506	53.084	1.858099	1.138241	2.343113	2.710593	3.850891
AE003852	866750	72.09	40.398	47.374	56.826	41.258	0.856537	0.969346	1.187266	2.755864	1.918418
AE003852	867250	78.076	47.98	38.716	41.264	33.912	1.430152	2.020616	0.056774	0.604049	0.718521

AE003852	867750	69.758	44.716	37.052	42.27	26.038	0.63591	1.569398	-0.15964	0.744219	-0.56772
AE003852	868250	72.744	30.556	43.26	39.648	29.692	0.922642	-0.39123	0.652783	0.382499	0.03112
AE003852	868750	74.162	22.244	49.522	31.022	38.13	1.059429	-1.54175	1.472261	-0.8098	1.412242
AE003852	869250	76.27	32.194	45.122	37.796	35.316	1.2622	-0.16244	0.898268	0.128302	0.953423
AE003852	869750	78.866	35.83	35.314	45.792	38.966	1.511637	0.342194	-0.38252	1.235455	1.551605
AE003852	870250	109.006	40.042	33.262	42.09	41.596	4.395038	0.926621	-0.64964	0.72433	1.982996
AE003852	870750	95.454	39.69	30.608	48.47	29.836	3.100282	0.8788	-0.99544	1.60793	0.061315
AE003852	871250	85.91	29.072	38.13	51.654	25.584	2.188801	-0.59116	-0.01129	2.0494	-0.63265
AE003852	871750	88.468	34.194	45.964	45.75	24.256	2.434604	0.119327	1.01364	1.233655	-0.84847
AE003852	872250	70.642	34.39	49.45	39.3	29.262	0.731137	0.147421	1.470309	0.342376	-0.02856
AE003852	872750	79.364	42.704	47.428	31.112	29.934	1.566388	1.300094	1.207109	-0.78933	0.082659
AE003852	873250	74.176	28.36	33.484	41.538	40.76	1.07146	-0.68603	-0.61424	0.653982	1.85427
AE003852	873750	63.46	33.986	38.504	34.268	43.064	0.047904	0.09428	0.042917	-0.35073	2.232352
AE003852	874250	63.088	37.192	43.836	32.118	36.258	0.013519	0.539346	0.740849	-0.64716	1.120756
AE003852	874750	58.068	24.646	45.56	34.304	27.8	-0.46534	-1.1977	0.967232	-0.34375	-0.26098
AE003852	875250	61.506	30.162	51.988	36.032	30.22	-0.13539	-0.43263	1.808406	-0.1037	0.136074
AE003852	875750	71.832	34.67	49.81	48.26	27.894	0.853249	0.1928	1.524817	1.588902	-0.24295
AE003852	876250	82.746	38.282	52.112	43.006	28.108	1.898116	0.69411	1.826743	0.863076	-0.20662
AE003852	876750	89.036	36.582	47.646	37.54	26.89	2.500801	0.459552	1.244124	0.107923	-0.40446
AE003852	877250	89.612	40.17	36.352	25.038	22.094	2.55707	0.957536	-0.23088	-1.62058	-1.18738
AE003852	877750	92.622	40.066	45.506	36.822	27.796	2.846097	0.944071	0.966568	0.010601	-0.25365
AE003852	878250	61.432	32.05	43.326	31.518	26.85	-0.13534	-0.16544	0.682718	-0.72214	-0.40702
AE003852	878750	72.478	24.634	52.288	45.278	25.964	0.922153	-1.19183	1.855072	1.182392	-0.55057
AE003852	879250	85.932	36.352	52.062	47.042	31.346	2.209913	0.432398	1.826601	1.427423	0.330836
AE003852	879750	79.202	48.768	49.338	36.214	28.12	1.567528	2.153318	1.471653	-0.0695	-0.19535
AE003852	880250	54.678	44.654	46.602	31.4	20.242	-0.77645	1.584351	1.115137	-0.73446	-1.48225
AE003852	880750	46.108	24.782	39.746	29.288	21.808	-1.59479	-1.16756	0.220157	-1.02562	-1.22484
AE003852	881250	54.222	23.88	24.582	34.712	31.806	-0.81768	-1.29157	-1.76064	-0.27428	0.411374
AE003852	881750	64.34	28.33	27.6	35.284	40.658	0.151064	-0.67417	-1.36513	-0.19414	1.860194
AE003852	882250	73.554	23.276	24.202	28.322	30.204	1.033364	-1.37336	-1.80817	-1.15625	0.152072
AE003852	882750	75.642	32.938	45.738	42.736	33.782	1.234222	-0.03395	1.007543	0.838756	0.738481
AE003852	883250	65.884	36.382	48.142	44.884	29.98	0.302277	0.444087	1.3228	1.136909	0.118102
AE003852	883750	66.476	35.118	33.554	43.636	26.032	0.360076	0.269928	-0.58271	0.965265	-0.52615
AE003852	884250	70.64	24.036	41.712	34.706	23.508	0.759457	-1.26431	0.484562	-0.26909	-0.93755
AE003852	884750	92.332	25.876	41.034	30.672	22.284	2.834997	-1.00848	0.397016	-0.82614	-1.13637
AE003852	885250	84.556	28.334	35.016	29.978	22.954	2.092586	-0.66703	-0.38844	-0.92115	-1.02548
AE003852	885750	71.582	37.064	51.778	36.056	35.052	0.853102	0.543273	1.803334	-0.07933	0.95413

AE003852	886250	60.21	35.402	32.258	32.31	29.2	-0.23319	0.313979	-0.74677	-0.59654	-0.00147
AE003852	886750	83.452	45.136	41.018	37.136	31.628	1.990577	1.663364	0.399187	0.072082	0.396893
AE003852	887250	101	42.042	46.866	32.146	39.208	3.669836	1.235696	1.164557	-0.61722	1.637713
AE003852	887750	78.034	35.894	53.528	44.998	34.596	1.474843	0.38496	2.036312	1.161701	0.884883
AE003852	888250	71.74	37.388	51.248	40.998	28.028	0.874152	0.592865	1.739393	0.609351	-0.18779
AE003852	888750	66.088	37.86	38.588	26.092	32.558	0.334853	0.659192	0.08586	-1.45171	0.554286
AE003852	889250	70.44	33.212	40.07	40.768	25.356	0.752212	0.01625	0.280615	0.579538	-0.62206
AE003852	889750	73.31	29.048	43.19	39.222	19.244	1.027851	-0.55964	0.689449	0.366669	-1.62018
AE003852	890250	73.174	33.598	41.13	35.174	30.562	1.016033	0.071606	0.421283	-0.19232	0.231886
AE003852	890750	63.57	36.164	27.488	29.588	19.964	0.098815	0.428013	-1.36059	-0.96407	-1.49978
AE003852	891250	49.774	25.27	27.072	26.444	16.898	-1.21927	-1.08018	-1.4139	-1.39801	-1.99981
AE003852	891750	89.324	32.984	43.438	39.008	30.102	2.563982	-0.01063	0.726123	0.341075	0.160655
AE003852	892250	81.904	47.432	40.782	44.884	38.374	1.855613	1.991785	0.380063	1.154952	1.514633
AE003852	892750	86.04	50.4	41.742	48.25	32.91	2.252317	2.403881	0.506595	1.6216	0.622482
AE003852	893250	75.242	37.948	42.88	49.096	24.694	1.220919	0.679858	0.656392	1.739636	-0.71968
AE003852	893750	76.016	36.652	38.64	32.882	23.444	1.296123	0.501265	0.10331	-0.50237	-0.92275
AE003852	894250	80.41	43.628	37.52	36.648	24.41	1.717498	1.468587	-0.042	0.019609	-0.76346
AE003852	894750	67.3	31.516	39.09	49.178	28.95	0.46501	-0.20834	0.164254	1.753987	-0.01974
AE003852	895250	58.692	29.55	42.168	33.974	27.9	-0.35696	-0.47974	0.567599	-0.3483	-0.19011
AE003852	895750	76.2	32.164	43.066	36.346	35.098	1.31847	-0.11669	0.686028	-0.01916	0.988244
AE003852	896250	61.014	31.796	52.868	43.662	34.1	-0.13254	-0.16672	1.968166	0.993921	0.82638
AE003852	896750	58.01	30.222	50.004	43.388	38.35	-0.41862	-0.38383	1.594921	0.957019	1.522675
AE003852	897250	70.802	31.378	48.524	33.064	33.436	0.805837	-0.22275	1.402558	-0.47018	0.720461
AE003852	897750	79.428	33.918	50.072	36.188	31.272	1.631908	0.13006	1.60594	-0.03701	0.36793
AE003852	898250	74.544	40.066	49.796	40.322	33.952	1.166051	0.982679	1.570933	0.535882	0.807497
AE003852	898750	59.622	25.328	33.59	37.906	31.568	-0.25971	-1.05802	-0.54605	0.202659	0.418992
AE003852	899250	61.392	27.986	17.848	22.444	36.028	-0.08927	-0.68887	-2.60238	-1.93532	1.149626
AE003852	899750	50.01	27.606	21.332	22.576	27.504	-1.17651	-0.74057	-2.14597	-1.91606	-0.2429
AE003852	900250	73.588	37.306	30.468	24.342	20.824	1.079383	0.604105	-0.95088	-1.67075	-1.33389
AE003852	900750	76.186	42.366	40.698	31.168	28.998	1.329011	1.306005	0.387197	-0.72545	0.004061
AE003852	901250	62.044	31.772	46.06	24.198	26.838	-0.02216	-0.16063	1.089049	-1.68867	-0.34782
AE003852	901750	48.37	23.94	43.732	26.974	22.88	-1.32859	-1.24465	0.785857	-1.30364	-0.9937
AE003852	902250	62.99	35.86	36.09	34.986	34.908	0.070675	0.407559	-0.21185	-0.19427	0.97446
AE003852	902750	65.22	37.192	36.702	35.902	29.716	0.285112	0.593021	-0.1308	-0.06655	0.126787
AE003852	903250	88.144	39.388	40.382	30.746	22.564	2.478465	0.898173	0.351225	-0.77882	-1.04139
AE003852	903750	82.566	30.76	43.534	33.854	31.752	1.946243	-0.29612	0.764241	-0.34786	0.462376
AE003852	904250	80.116	35.016	54.78	35.934	35.346	1.713143	0.294407	2.235103	-0.05912	1.051401

AE003852	904750	79.244	56.368	36.474	42.206	33.264	1.630944	3.253224	-0.15634	0.809542	0.712279
AE003852	905250	65.022	40.51	31.036	38.34	30.118	0.272118	1.057369	-0.86599	0.275729	0.199171
AE003852	905750	71.324	35.558	32.226	38.724	38.532	0.875951	0.372314	-0.7094	0.329853	1.576368
AE003852	906250	76.294	31.048	38.236	42.15	37.322	1.352407	-0.25151	0.077146	0.804802	1.379837
AE003852	906750	59.122	34.086	49.746	37.37	30.158	-0.28852	0.170283	1.582511	0.144548	0.2097
AE003852	907250	66.318	32.928	47.676	30.66	32.008	0.400803	0.010808	1.313038	-0.7827	0.513544
AE003852	907750	73.21	30.228	44.254	39.314	32.176	1.061056	-0.36228	0.866865	0.415482	0.542346
AE003852	908250	72.596	37.986	37.416	46.134	19.708	1.003529	0.713372	-0.02576	1.35995	-1.49511
AE003852	908750	78.16	45.586	46.606	42.56	29.748	1.536788	1.767135	1.176391	0.866532	0.147975
AE003852	909250	78.912	47.468	45.42	44.346	21.39	1.609888	2.028789	1.022452	1.114607	-1.21741
AE003852	909750	53.444	32.978	34.222	26.58	17.166	-0.82437	0.022443	-0.44001	-1.34211	-1.90679
AE003852	910250	59.91	26.406	40.758	24.268	26.722	-0.20485	-0.88703	0.415283	-1.66094	-0.34285
AE003852	910750	54.914	27.716	31.482	26.97	24.128	-0.68142	-0.70461	-0.79598	-1.28615	-0.7657
AE003852	911250	49.556	32.322	27.01	42.648	18.918	-1.1926	-0.06561	-1.37938	0.883718	-1.61631
AE003852	911750	61.374	43.184	46.516	39.546	29.97	-0.06129	1.440038	1.171021	0.455596	0.192255
AE003852	912250	66.056	34.144	35.48	33.518	34.554	0.387629	0.188676	-0.27026	-0.3773	0.943166
AE003852	912750	48.196	32.848	28.176	29.208	27.906	-1.31909	0.010084	-1.2238	-0.97254	-0.14259
AE003852	913250	50.832	33.994	34.21	38.23	38.264	-1.06583	0.16978	-0.43412	0.27655	1.552489
AE003852	913750	63.946	29.236	44.77	33.682	25.348	0.189419	-0.4884	0.947089	-0.35161	-0.55822
AE003852	914250	55.436	29.45	36.488	38.092	29.144	-0.62318	-0.45781	-0.13426	0.259464	0.063834
AE003852	914750	54.276	39.638	39.632	31.354	31.82	-0.73292	0.954464	0.277709	-0.67166	0.502746
AE003852	915250	60.552	24.462	36.65	41.154	25.072	-0.13158	-1.14691	-0.11096	0.68506	-0.59937
AE003852	915750	70.5	26.95	36.424	30.66	23.594	0.820913	-0.80131	-0.13943	-0.76566	-0.83972
AE003852	916250	54.31	23.312	26.868	32.636	24.184	-0.72611	-1.30434	-1.38729	-0.4913	-0.74191
AE003852	916750	58.69	23.84	32.164	49.058	27.498	-0.30607	-1.23025	-0.69406	1.781491	-0.19867
AE003852	917250	70.682	28.098	47.93	48.766	29.846	0.841882	-0.63945	1.367544	1.742099	0.186603
AE003852	917750	72.36	37.86	55.878	50.848	26.478	1.003533	0.713809	2.407373	2.031121	-0.36281
AE003852	918250	70.206	37.012	43.198	40.878	32.036	0.798739	0.597278	0.751226	0.652893	0.547374
AE003852	918750	56.616	28.35	31.476	43.786	31.624	-0.49965	-0.60172	-0.77972	1.056183	0.481333
AE003852	919250	54.76	27.572	34.012	44.632	38.254	-0.67595	-0.70855	-0.44721	1.174219	1.566809
AE003852	919750	59.704	34.564	35.854	32.332	31.232	-0.20198	0.260983	-0.2054	-0.52634	0.419892
AE003852	920250	79.912	37.288	48.37	31.806	34.978	1.731651	0.639278	1.431442	-0.5981	1.033772
AE003852	920750	77.098	31.472	56.13	46.68	27.362	1.463744	-0.16547	2.446701	1.460543	-0.21028
AE003852	921250	71.24	31.538	47.906	30.958	28.552	0.904746	-0.15538	1.372931	-0.71341	-0.01436
AE003852	921750	58.564	27.442	27.198	35.326	25.252	-0.30624	-0.72185	-1.33244	-0.10814	-0.55265
AE003852	922250	60.81	31.14	40.932	41.614	33.528	-0.09027	-0.20863	0.463595	0.762729	0.801985
AE003852	922750	60.426	46.566	45.104	33.742	34.124	-0.12581	1.92926	1.00992	-0.32527	0.900773

AE003852	923250	53.854	28.168	41.578	26.602	34.346	-0.75308	-0.61846	0.550154	-1.312	0.938404
AE003852	923750	39.99	32.488	35.504	41.22	34.236	-2.07767	-0.01907	-0.24262	0.711231	0.921747
AE003852	924250	52.514	34.656	24.01	33.346	24.586	-0.87885	0.282203	-1.74376	-0.37704	-0.6549
AE003852	924750	61.956	49.43	35.086	30.462	35.202	0.025256	2.329775	-0.29512	-0.77501	1.082367
AE003852	925250	71.082	24.626	35.062	40.032	28.914	0.899141	-1.10536	-0.29719	0.549892	0.055475
AE003852	925750	83.682	32.1	36.922	34.8	24.544	2.105235	-0.06905	-0.05303	-0.17289	-0.65778
AE003852	926250	64.376	34.812	31.54	35.294	34.368	0.260239	0.30758	-0.75537	-0.10355	0.949979
AE003852	926750	70.954	37.596	46.358	46.918	28.86	0.890464	0.694187	1.182335	1.505496	0.050634
AE003852	927250	62.56	34.118	36.374	35.964	31.352	0.088955	0.213324	-0.12146	-0.00886	0.459459
AE003852	927750	73.528	31.926	26.25	55.822	33.874	1.138985	-0.08939	-1.44355	2.739263	0.873189
AE003852	928250	77.226	36.926	45.278	33.83	37.356	1.493804	0.604197	1.044381	-0.30207	1.443899
AE003852	928750	68.632	32.386	44.608	27.224	38.396	0.673169	-0.02378	0.95788	-1.21493	1.615291
AE003852	929250	57.738	38.226	41.042	32.546	29.68	-0.36741	0.786169	0.492887	-0.47769	0.191369
AE003852	929750	55.544	34.78	32.706	39.62	29.446	-0.57603	0.309739	-0.59552	0.501919	0.154435
AE003852	930250	59.982	31.36	34.894	32.916	32.152	-0.15044	-0.16309	-0.30849	-0.4245	0.598253
AE003852	930750	68.166	38.542	33.904	40.5	28.722	0.633359	0.832769	-0.43682	0.625661	0.038705
AE003852	931250	53.984	50.384	35.578	35.118	26.262	-0.72164	2.474173	-0.21697	-0.11787	-0.36223
AE003852	931750	51.848	31.854	37.59	44.806	21.104	-0.92471	-0.09183	0.047055	1.223349	-1.20434
AE003852	932250	72.15	48.718	49.786	35.974	19.214	1.017903	2.245267	1.642078	0.00255	-1.51207
AE003852	932750	55.96	30.804	31.25	32.188	20.394	-0.52912	-0.2354	-0.77942	-0.5202	-1.31778
AE003852	933250	57.89	24.886	31.794	39.266	25.618	-0.34337	-1.05428	-0.70726	0.459964	-0.46222
AE003852	933750	54.244	22.574	34.28	34.972	26.588	-0.69084	-1.37362	-0.38128	-0.13306	-0.30227
AE003852	934250	62.62	30.012	48.808	32.776	29.708	0.111325	-0.34229	1.51852	-0.43585	0.209244
AE003852	934750	69.186	27.854	59.598	35.676	23.782	0.740403	-0.6403	2.929784	-0.03366	-0.75845
AE003852	935250	63.686	25.548	45.412	36.128	28.542	0.21564	-0.9588	1.07681	0.029868	0.021237
AE003852	935750	55.13	25.618	36.512	24.03	29.424	-0.60136	-0.94817	-0.08531	-1.64274	0.166793
AE003852	936250	52.558	20.704	30.826	24.64	26.882	-0.84613	-1.62796	-0.82738	-1.55735	-0.24755
AE003852	936750	56.794	36.038	37.12	29.758	25.824	-0.43986	0.497192	-0.00372	-0.84834	-0.41922
AE003852	937250	54.724	46.068	37.522	28.052	21.336	-0.63662	1.887581	0.049888	-1.08334	-1.15178
AE003852	937750	52.562	38.426	24.866	26.81	24.146	-0.84218	0.829883	-1.60312	-1.25415	-0.69095
AE003852	938250	67.256	33.672	31.43	36.724	31.386	0.564158	0.172257	-0.74417	0.118332	0.494269
AE003852	938750	74.268	27.08	41.586	37.19	35.952	1.235886	-0.73999	0.584229	0.1838	1.242237
AE003852	939250	72.918	27.974	41.258	38.888	38.92	1.107977	-0.6152	0.542427	0.4197	1.728898
AE003852	939750	68.77	33.986	38.53	46.884	36.65	0.712502	0.21858	0.186956	1.526854	1.359034
AE003852	940250	66.132	43.192	30.494	34.76	31.302	0.461424	1.494821	-0.86224	-0.14935	0.485852
AE003852	940750	65.85	38.598	40.614	29.2	24.224	0.435645	0.85936	0.461456	-0.91751	-0.67022
AE003852	941250	69.344	47.47	57.586	28.794	26.452	0.770956	2.089333	2.680677	-0.97267	-0.30457

AE003852	941750	56.058	45.022	45.456	33.754	24.732	-0.49836	1.751155	1.096412	-0.28552	-0.58449
AE003852	942250	59.912	38.286	40.322	34.518	29.936	-0.12863	0.818964	0.426489	-0.17882	0.2678
AE003852	942750	53.63	24.044	35.062	29.274	24.778	-0.72817	-1.15303	-0.2599	-0.90327	-0.57431
AE003852	943250	51.26	27.926	36.692	36.812	22.446	-0.95362	-0.61432	-0.0458	0.14053	-0.95431
AE003852	943750	41.996	25.284	26.098	22.786	20.422	-1.83832	-0.97937	-1.42932	-1.7988	-1.28395
AE003852	944250	56.9	18.888	31.606	16.682	16.574	-0.4119	-1.86446	-0.70839	-2.64221	-1.91185
AE003852	944750	46.508	26.514	34.444	33.73	19.84	-1.40448	-0.80709	-0.33641	-0.28282	-1.37646
AE003852	945250	40.074	26.02	29.238	39.118	24.032	-2.01856	-0.87459	-1.01574	0.463547	-0.68965
AE003852	945750	39.398	24.3	31.678	34.132	34.226	-2.08201	-1.11191	-0.69578	-0.2252	0.978614
AE003852	946250	58.096	29.344	31.772	40.694	28.714	-0.29278	-0.41223	-0.68243	0.683572	0.078614
AE003852	946750	57.75	22.654	44.204	37.004	32.406	-0.32468	-1.33805	0.943436	0.174107	0.683664
AE003852	947250	66.658	36.658	30.46	28.02	31.25	0.528356	0.602855	-0.85177	-1.06772	0.495963
AE003852	947750	60.816	35.812	34.404	28.786	32.57	-0.02911	0.486601	-0.33524	-0.96075	0.713141
AE003852	948250	79.44	24.632	44.036	34.264	31.504	1.753043	-1.06121	0.924676	-0.20193	0.540157
AE003852	948750	61.226	31.872	34.612	40.11	35.586	0.012472	-0.05732	-0.30593	0.607795	1.20898
AE003852	949250	41.042	24.314	30.916	32.762	33.094	-1.91649	-1.10338	-0.78791	-0.40771	0.802815
AE003852	949750	54.312	27.896	40.574	35.008	33.976	-0.64632	-0.60623	0.475406	-0.096	0.94837
AE003852	950250	53.29	26.292	47.522	40.466	31.068	-0.74286	-0.82749	1.384541	0.66005	0.47418
AE003852	950750	62.82	33.586	48.67	45.492	32.76	0.169654	0.183885	1.535644	1.35634	0.752188
AE003852	951250	58.416	34.43	38.694	41.756	23.512	-0.2503	0.301745	0.232896	0.840511	-0.75873
AE003852	951750	72.618	25.58	29.894	43.362	23.368	1.108988	-0.9233	-0.91616	1.063684	-0.78094
AE003852	952250	63.058	36.466	42.116	33.75	22.978	0.195977	0.585674	0.682265	-0.26502	-0.84339
AE003852	952750	62.964	22.548	42.468	33.804	25.186	0.188176	-1.34143	0.729335	-0.25655	-0.481
AE003852	953250	56.478	31.524	37.952	39.522	27.294	-0.43088	-0.09705	0.140182	0.535473	-0.13497
AE003852	953750	44.358	47.646	29.558	33.394	32.422	-1.58869	2.137255	-0.95581	-0.31126	0.704895
AE003852	954250	50.838	34.636	32.384	43.296	33.258	-0.96784	0.335932	-0.5854	1.059566	0.842928
AE003852	954750	57.308	37.25	32.992	32.872	21.23	-0.34794	0.698989	-0.50487	-0.38147	-1.12258
AE003852	955250	67.982	34.222	38.6	39.926	27.36	0.673975	0.280465	0.229134	0.595371	-0.11886
AE003852	955750	77.088	32.94	39.916	31.2	28.962	1.545947	0.103812	0.402194	-0.61076	0.14443
AE003852	956250	67.254	35.836	42.602	37.306	27.426	0.606734	0.505934	0.754306	0.23493	-0.10541
AE003852	956750	63.206	22.476	41.382	56.516	38.374	0.220822	-1.34387	0.595924	2.893407	1.686151
AE003852	957250	54.482	28.954	34.012	54.04	35.236	-0.61224	-0.44554	-0.36623	2.551885	1.174351
AE003852	957750	56.504	32.192	29.298	48.878	39.258	-0.4177	0.003959	-0.98126	1.838786	1.833363
AE003852	958250	57.368	32.324	36.416	38.34	32.382	-0.33389	0.023186	-0.04991	0.381982	0.710321
AE003852	958750	62.454	27.074	36.908	24.992	29.896	0.153662	-0.70315	0.015456	-1.46355	0.305136
AE003852	959250	77.142	31.02	38.348	27.526	23.034	1.559427	-0.15557	0.204723	-1.112	-0.81562
AE003852	959750	67.974	24.136	37.444	27.544	27.12	0.683902	-1.10827	0.08764	-1.10851	-0.14614

AE003852	960250	87.368	30.452	37.892	27.144	24.968	2.53969	-0.23237	0.147257	-1.16284	-0.49671
AE003852	960750	75.54	35.166	34.752	35.268	26.456	1.409796	0.421595	-0.26206	-0.03798	-0.25206
AE003852	961250	69.266	32.502	34.072	37.802	23.366	0.811017	0.053494	-0.34987	0.31357	-0.75601
AE003852	961750	63.018	33.908	46.116	30.502	28.594	0.214724	0.249208	1.225289	-0.6953	0.100209
AE003852	962250	50.55	24.326	47.486	32.4	30.506	-0.97637	-1.07724	1.405407	-0.43173	0.414192
AE003852	962750	50.07	21.472	45.314	25.498	32.83	-1.02108	-1.47166	1.122602	-1.38553	0.795545
AE003852	963250	64.954	29.87	42.062	34.176	22.666	0.403423	-0.30735	0.698648	-0.18403	-0.86516
AE003852	963750	61.91	37.972	39.252	42.302	28.356	0.113521	0.815957	0.33246	0.941103	0.06661
AE003852	964250	64.672	38.008	37.146	41.17	20.866	0.378832	0.821886	0.058282	0.785507	-1.15683
AE003852	964750	58.7	36.826	42.256	42.21	24.934	-0.19107	0.659086	0.727199	0.930381	-0.4903
AE003852	965250	59.506	28.776	38.042	41.856	28.98	-0.1128	-0.45513	0.177515	0.882412	0.172636
AE003852	965750	57.742	24.78	37.276	46.078	35.166	-0.2803	-1.00775	0.078468	1.467477	1.185508
AE003852	966250	57.45	31.176	47.102	41.604	32.968	-0.30704	-0.12078	1.363743	0.849555	0.827418
AE003852	966750	46.028	30.048	45.588	37.574	32.428	-1.39811	-0.2761	1.166937	0.293055	0.740446
AE003852	967250	55.436	35.936	44.878	33.448	41.06	-0.49726	0.540504	1.075208	-0.27673	2.153291
AE003852	967750	70.224	28.162	53.654	37.404	41.594	0.918072	-0.53548	2.223254	0.271542	2.241941
AE003852	968250	76.688	28.882	35.066	33.748	35.584	1.537396	-0.4348	-0.20504	-0.23322	1.260508
AE003852	968750	80.13	34.582	39.778	25.926	36.712	1.867734	0.35576	0.41186	-1.3143	1.446289
AE003852	969250	54.326	44.462	32.396	31.318	29.74	-0.59865	1.72537	-0.55187	-0.56738	0.307549
AE003852	969750	54.404	40.946	31.622	38.382	27.952	-0.59	1.239243	-0.65196	0.410847	0.016502
AE003852	970250	55.056	30.286	34.078	34.81	28.122	-0.52647	-0.23654	-0.32991	-0.08229	0.045631
AE003852	970750	56.04	27.712	40.478	38.27	28.502	-0.43118	-0.59217	0.507609	0.397357	0.109098
AE003852	971250	72.75	34.408	38.294	36.264	19.434	1.167943	0.336364	0.223236	0.120854	-1.37238
AE003852	971750	56.542	36.718	31.832	43.12	21.496	-0.3808	0.657309	-0.62025	1.070302	-1.03387
AE003852	972250	51.312	31.218	39.228	43.126	25.608	-0.87974	-0.10366	0.347436	1.072134	-0.36014
AE003852	972750	56.686	31.614	34.26	32.392	23.392	-0.36465	-0.04786	-0.30079	-0.41178	-0.72118
AE003852	973250	59.684	22.794	30.056	29.938	23.288	-0.07677	-1.26875	-0.84917	-0.75026	-0.73685
AE003852	973750	59.878	33.97	29.656	24.264	20.62	-0.05703	0.280397	-0.90038	-1.53419	-1.1718
AE003852	974250	55.796	38.444	37.454	25.68	14.828	-0.4462	0.901118	0.119845	-1.3373	-2.11758
AE003852	974750	65.742	29.674	32.482	28.66	16.566	0.506102	-0.31284	-0.52891	-0.92405	-1.83205
AE003852	975250	67.35	29.52	29.642	38.714	26.71	0.661059	-0.33323	-0.89901	0.467801	-0.17197
AE003852	975750	62.522	26.432	44.69	39.316	32.704	0.200557	-0.76007	1.068751	0.552083	0.809511
AE003852	976250	62.456	20.822	47.684	47.666	34.034	0.195434	-1.53628	1.461117	1.708208	1.028323
AE003852	976750	55.208	24.242	37.55	39.102	24.224	-0.49649	-1.06156	0.137719	0.524483	-0.57449
AE003852	977250	62.776	24.298	34.578	41.958	23.142	0.22841	-1.05287	-0.24964	0.920579	-0.75009
AE003852	977750	63.11	31.608	39.442	32.734	17.364	0.261538	-0.03928	0.387125	-0.35445	-1.69359
AE003852	978250	47.386	33.348	37.024	40.508	22.096	-1.24092	0.202707	0.07217	0.721994	-0.91847

AE003852	978750	43.25	31.852	49.176	31.686	36.782	-1.63525	-0.00359	1.661441	-0.49742	1.484328
AE003852	979250	59.37	29.392	48.772	29.132	32.028	-0.09254	-0.34343	1.609706	-0.84974	0.708277
AE003852	979750	62.794	30.46	38.158	30.476	29.032	0.236072	-0.19454	0.223574	-0.66281	0.219697
AE003852	980250	68.032	31.372	45.338	35.982	29.898	0.738157	-0.06726	1.16303	0.099885	0.362636
AE003852	980750	55.882	34.634	43.68	38.732	33.698	-0.42253	0.385564	0.947403	0.481317	0.985347
AE003852	981250	62.658	28.29	49.214	37.95	37.15	0.22663	-0.49232	1.671735	0.374139	1.551152
AE003852	981750	58.204	30.164	42.432	40.236	35.184	-0.19811	-0.23178	0.786427	0.691382	1.230998
AE003852	982250	58.346	31.424	33.676	32.494	26.238	-0.18334	-0.05629	-0.35687	-0.37863	-0.23053
AE003852	982750	62.342	53.074	40.506	39.556	27.728	0.199976	2.943809	0.536839	0.599317	0.014443
AE003852	983250	57.23	45.014	31.91	40.904	29.84	-0.28768	1.828205	-0.58555	0.786799	0.36113
AE003852	983750	59.672	24.372	34.252	33.106	26.042	-0.05297	-1.03037	-0.2784	-0.29096	-0.25859
AE003852	984250	66.316	20.156	35.848	28.978	27.044	0.583564	-1.61347	-0.06874	-0.86102	-0.09342
AE003852	984750	66.128	36.698	35.67	43.312	31.23	0.566774	0.679021	-0.09094	1.122925	0.592413
AE003852	985250	64.606	35.754	36.08	39.958	31.396	0.422417	0.549191	-0.03629	0.659941	0.620887
AE003852	985750	62.902	24.824	41.296	31.552	26.74	0.260655	-0.96399	0.646481	-0.50193	-0.13914
AE003852	986250	78.128	30.114	36.358	31.838	33.61	1.717868	-0.23023	0.002174	-0.46136	0.985582
AE003852	986750	64.454	30.454	42.082	34.052	28.72	0.411445	-0.18219	0.751338	-0.15408	0.187293
AE003852	987250	68.448	32.032	40.54	40.792	25.068	0.79457	0.037353	0.550872	0.779325	-0.40856
AE003852	987750	54.648	26.924	36.716	28.786	30.512	-0.5239	-0.66931	0.05216	-0.88056	0.482982
AE003852	988250	48.788	28.864	37.996	28.77	29.804	-1.08309	-0.39962	0.220515	-0.88177	0.368539
AE003852	988750	58.678	38.914	34.184	30.176	30.91	-0.13615	0.993535	-0.27663	-0.68627	0.550723
AE003852	989250	64.808	31.478	38.25	35.544	26.366	0.451237	-0.03563	0.255842	0.057336	-0.19099
AE003852	989750	62.522	36.804	49.614	31.686	20.592	0.233821	0.703122	1.742126	-0.47537	-1.13383
AE003852	990250	46.314	33.434	34.302	28.506	25.492	-1.31492	0.23722	-0.25801	-0.91428	-0.33125
AE003852	990750	48.142	22.052	32.442	37.588	30.524	-1.13893	-1.33858	-0.50004	0.343106	0.492922
AE003852	991250	70.186	22.06	44.74	45.664	29.764	0.970274	-1.33653	1.108315	1.461327	0.369976
AE003852	991750	54.108	21.284	38.488	26.322	26.156	-0.56604	-1.44308	0.292275	-1.21341	-0.21868
AE003852	992250	59.126	29.78	47.632	26.668	28.724	-0.08499	-0.2652	1.488416	-1.16454	0.202573
AE003852	992750	66.24	39.396	45.284	29.094	31.052	0.596492	1.06784	1.182609	-0.82793	0.58458
AE003852	993250	66.364	30.768	45.908	34.442	21.648	0.609538	-0.12645	1.265228	-0.08709	-0.95184
AE003852	993750	67.056	24.414	41.186	37.706	29.11	0.6769	-1.00572	0.649152	0.365444	0.269681
AE003852	994250	73.43	21.756	31.214	31.794	28.008	1.287618	-1.37299	-0.65307	-0.45141	0.09081
AE003852	994750	88.916	26.674	33.766	24.866	24.402	2.769693	-0.69076	-0.31847	-1.40881	-0.49752
AE003852	995250	82.87	23.676	46.352	32.362	35.002	2.192717	-1.10513	1.327519	-0.37083	1.237137
AE003852	995750	65.952	28.69	37.502	36.608	26.192	0.576079	-0.4096	0.171933	0.217559	-0.20216
AE003852	996250	56.956	18.658	30.342	32.994	31	-0.283	-1.79839	-0.76278	-0.28139	0.585384
AE003852	996750	46.946	18.72	25.852	21.462	22.828	-1.23904	-1.78886	-1.34853	-1.87571	-0.74958

AE003852	997250	54.878	25.384	27.698	30.45	24.27	-0.47934	-0.86476	-1.1062	-0.63132	-0.51245
AE003852	997750	56.308	30.204	26.47	30.4	25.026	-0.3414	-0.1961	-1.26563	-0.63723	-0.3875
AE003852	998250	67.626	24.062	34.438	32.51	31.564	0.7421	-1.04601	-0.22319	-0.34434	0.682928
AE003852	998750	67.448	27.446	45.384	32.656	34.852	0.726266	-0.57628	1.208464	-0.32314	1.221916
AE003852	999250	65.914	31.776	45.656	28.888	23.496	0.580761	0.024489	1.245079	-0.84339	-0.6337
AE003852	999750	63.236	25.372	39.368	29.266	25.362	0.325859	-0.86171	0.424334	-0.7901	-0.32724
AE003852	1000250	83.442	26.85	42.026	33.984	39.684	2.259296	-0.65602	0.772787	-0.13642	2.016039
AE003852	1000750	77.846	27.85	40.482	39.646	42.52	1.725353	-0.51655	0.572059	0.647854	2.481115
AE003852	1001250	54.774	32.162	47.544	31.606	29.104	-0.47978	0.081728	1.496093	-0.46338	0.288644
AE003852	1001750	63.1	32.628	46.656	25.802	25.256	0.317606	0.147224	1.381101	-1.26529	-0.33926
AE003852	1002250	52.324	38.174	38.4	33.048	24.496	-0.71169	0.916449	0.303148	-0.26189	-0.4622
AE003852	1002750	54.14	29.658	35.868	23.548	28.18	-0.53684	-0.26232	-0.02671	-1.5751	0.141539
AE003852	1003250	69.452	36.744	49.816	25.344	43.648	0.928595	0.720235	1.797294	-1.32565	2.672215
AE003852	1003750	60.746	36.94	39.122	34.796	26.63	0.09725	0.748329	0.400706	-0.01707	-0.10926
AE003852	1004250	60.39	35.384	37.914	32.636	26.066	0.064395	0.533719	0.243892	-0.31488	-0.20016
AE003852	1004750	50.022	29.992	34.386	38.768	28.88	-0.92588	-0.21229	-0.21613	0.534412	0.261322
AE003852	1005250	49.656	40.49	42.662	41.67	22.944	-0.95969	1.242932	0.866563	0.936871	-0.70801
AE003852	1005750	70.102	28.146	36.982	37.056	25.718	0.996693	-0.46613	0.125281	0.299582	-0.25307
AE003852	1006250	68.908	36.436	30.528	28.666	28.76	0.883702	0.683218	-0.71716	-0.86007	0.245688
AE003852	1006750	50.9	41.504	27.036	31.502	34.772	-0.83717	1.386226	-1.17248	-0.46674	1.230108
AE003852	1007250	49.046	31.734	29.434	29.634	32.7	-1.01328	0.033738	-0.85801	-0.72416	0.892621
AE003852	1007750	53.218	26.99	36.51	29.776	32.15	-0.61313	-0.6225	0.067855	-0.70351	0.804014
AE003852	1008250	64.654	23.052	44.958	38.522	25.532	0.481655	-1.16709	1.173032	0.507397	-0.27684
AE003852	1008750	65.656	27.738	45.598	36.372	20.574	0.578661	-0.517	1.257742	0.210973	-1.08625
AE003852	1009250	56.676	32.41	39.888	29.18	33.106	-0.27889	0.13115	0.512539	-0.78295	0.964329
AE003852	1009750	70.232	24.334	36.408	46.392	28.646	1.018629	-0.98667	0.058786	1.599125	0.236354
AE003852	1010250	58.846	26.48	35.114	44.368	31.094	-0.069	-0.68844	-0.10927	1.320131	0.637984
AE003852	1010750	48.49	29.508	32.202	39.638	30.898	-1.05813	-0.26804	-0.48879	0.666794	0.607263
AE003852	1011250	45.728	29.758	31.714	28.176	26.078	-1.32106	-0.23246	-0.5515	-0.91783	-0.17958
AE003852	1011750	54.914	31.852	30.612	35.486	16.93	-0.44144	0.058559	-0.69446	0.094419	-1.67414
AE003852	1012250	59.894	35.048	37.802	28.336	34.792	0.035972	0.50224	0.246302	-0.8937	1.248004
AE003852	1012750	48.34	41.408	42.562	36.98	31.236	-1.06772	1.384227	0.869476	0.303101	0.667852
AE003852	1013250	66.66	29.462	31.002	37.05	26.336	0.685363	-0.2697	-0.64029	0.313787	-0.13207
AE003852	1013750	56.266	19.096	39.054	33.566	18.218	-0.3074	-1.70475	0.413128	-0.16718	-1.45821
AE003852	1014250	53.9	21.992	34.804	29.918	30.612	-0.53247	-1.30263	-0.14126	-0.67084	0.569803
AE003852	1014750	44.34	26.59	32.624	30.726	26.368	-1.44548	-0.66473	-0.42511	-0.55806	-0.12285
AE003852	1015250	42.746	23.628	27.03	23.284	46.162	-1.59672	-1.07411	-1.15515	-1.58657	3.115218

AE003852	1015750	49.098	31.498	20.344	20.99	43.792	-0.98811	0.017053	-2.02791	-1.90291	2.729002
AE003852	1016250	61.566	31.966	28.512	27.636	29.222	0.205365	0.082826	-0.95933	-0.98251	0.347827
AE003852	1016750	62.508	46.154	35.346	34.574	33.968	0.296634	2.04922	-0.0651	-0.02172	1.125229
AE003852	1017250	60.444	36.884	42.172	35.952	32.128	0.100447	0.765996	0.828094	0.169911	0.825679
AE003852	1017750	54.908	33.894	37.54	30.298	28.97	-0.42776	0.352736	0.22378	-0.61125	0.310609
AE003852	1018250	55.942	35.06	44.656	26.342	24.828	-0.32769	0.515202	1.154871	-1.15751	-0.36537
AE003852	1018750	55.292	33.442	46.148	31.68	20.092	-0.38866	0.292004	1.350934	-0.41806	-1.13847
AE003852	1019250	60.228	38.632	42.598	42.668	35.754	0.084543	1.011912	0.888032	1.102999	1.423926
AE003852	1019750	58.824	44.548	40.27	36.112	26.18	-0.04853	1.832392	0.584839	0.197057	-0.1403
AE003852	1020250	48.566	42.56	39.068	32.968	29.622	-1.02829	1.557938	0.428809	-0.23688	0.423873
AE003852	1020750	57.5	33.948	49.382	37.046	30.38	-0.17276	0.365866	1.777863	0.32827	0.549151
AE003852	1021250	71.49	28.658	43.624	35.01	28.034	1.166252	-0.36601	1.026387	0.047616	0.16686
AE003852	1021750	69.656	32.776	34	43.184	26.002	0.992059	0.205393	-0.23036	1.179394	-0.16409
AE003852	1022250	63.94	22.366	35.994	39.234	22.14	0.446641	-1.23575	0.031314	0.633961	-0.79428
AE003852	1022750	62.254	30.722	47.212	42.41	22.54	0.286601	-0.07726	1.498517	1.074325	-0.72754
AE003852	1023250	59.826	23.75	39.382	34.144	20.294	0.055605	-1.04215	0.47624	-0.06818	-1.09348
AE003852	1023750	64.878	19.154	26.216	23.058	30.218	0.539903	-1.67788	-1.24343	-1.60079	0.530638
AE003852	1024250	57.334	30.322	26.85	35.432	30.144	-0.18032	-0.12985	-1.1595	0.112009	0.519867
AE003852	1024750	45.188	39.134	30.83	38.646	31.034	-1.34063	1.091812	-0.63827	0.55763	0.666731
AE003852	1025250	41.558	40.148	36.38	32.49	26.906	-1.68657	1.233222	0.088155	-0.29298	-0.00696
AE003852	1025750	48.702	31.888	37.864	36.15	30.244	-1.00222	0.089913	0.283172	0.214343	0.540208
AE003852	1026250	59.908	31.114	37.426	45.452	26.134	0.070575	-0.01637	0.226993	1.502166	-0.13053
AE003852	1026750	58.914	29.532	34.65	30.272	31.58	-0.02329	-0.23458	-0.13475	-0.5968	0.761332
AE003852	1027250	54.84	42.404	31.832	29.16	29.208	-0.41169	1.549511	-0.50198	-0.74963	0.374789
AE003852	1027750	37.738	21	27.444	34.83	25.742	-2.04592	-1.41463	-1.07441	0.035746	-0.19065
AE003852	1028250	46.828	15.072	26.918	29.914	23.368	-1.17548	-2.23489	-1.14209	-0.64332	-0.57752
AE003852	1028750	50.784	18.488	38.328	25.714	26.118	-0.79599	-1.76073	0.350208	-1.22334	-0.1265
AE003852	1029250	71.61	19.536	31.654	18.292	22.802	1.196735	-1.61461	-0.52099	-2.24908	-0.66741
AE003852	1029750	67.586	38.706	37.982	29.968	20.846	0.813118	1.041938	0.307118	-0.63284	-0.98593
AE003852	1030250	63.634	38.24	49.604	31.608	33.148	0.436387	0.978325	1.827121	-0.40497	1.02704
AE003852	1030750	62.2	22.846	39.262	26.624	37.86	0.300445	-1.15325	0.476539	-1.09344	1.798882
AE003852	1031250	60.426	25.978	35.642	26.616	27.968	0.13199	-0.71844	0.004488	-1.09355	0.18266
AE003852	1031750	51.056	28.568	42.874	28.93	28.302	-0.76285	-0.3587	0.95074	-0.77243	0.238605
AE003852	1032250	51.912	38.13	31.106	24.746	33.98	-0.67981	0.966854	-0.58621	-1.35023	1.168409
AE003852	1032750	48.19	30.584	36.896	34.168	25.248	-1.03454	-0.07755	0.171576	-0.04581	-0.25813
AE003852	1033250	45.278	34.142	31.504	31.276	26.586	-1.31182	0.416283	-0.53207	-0.44488	-0.03801
AE003852	1033750	47.972	35.206	42.33	43.598	21.636	-1.05302	0.564619	0.883904	1.260723	-0.84611

AE003852	1034250	57.076	35.908	40.954	25.84	27.108	-0.18123	0.662808	0.705133	-1.19488	0.050009
AE003852	1034750	58.858	36.134	37.426	33.256	28.526	-0.00964	0.695058	0.245106	-0.16796	0.283212
AE003852	1035250	44.378	36.452	31.682	38.91	26.924	-1.39314	0.740052	-0.50454	0.615201	0.02258
AE003852	1035750	48.88	33.926	29.074	32.28	18.314	-0.96143	0.391069	-0.84433	-0.30098	-1.38401
AE003852	1036250	58.942	33.216	35.846	32.328	24.676	0.001958	0.293655	0.041804	-0.29334	-0.34236
AE003852	1036750	43.164	27.818	39.064	30.854	28.228	-1.50566	-0.45318	0.463447	-0.49624	0.239801
AE003852	1037250	54.97	22.52	47.822	24.858	27.266	-0.3755	-1.18617	1.609139	-1.32472	0.083823
AE003852	1037750	62.018	22.964	40.096	36.154	15.362	0.299673	-1.12372	0.600455	0.238953	-1.8614
AE003852	1038250	68.416	26.06	36.274	39.172	16.734	0.912685	-0.69389	0.102004	0.65746	-1.63572
AE003852	1038750	76.594	41.416	28.138	33.694	28.952	1.695915	1.434302	-0.96027	-0.09935	0.363509
AE003852	1039250	66.294	29.556	28.52	27.348	28.564	0.71214	-0.20771	-0.90927	-0.97624	0.301392
AE003852	1039750	57.484	22.8	51.468	27.988	18.426	-0.12915	-1.14267	2.09098	-0.88671	-1.35506
AE003852	1040250	50.752	29.106	33.494	35.464	23.76	-0.77173	-0.26817	-0.25707	0.148512	-0.48151
AE003852	1040750	43.372	31.504	30.682	28.666	26.148	-1.47627	0.064968	-0.62352	-0.79091	-0.08969
AE003852	1041250	63.376	24.496	35.036	30.108	30.616	0.437851	-0.9049	-0.0534	-0.59042	0.642256
AE003852	1041750	66.826	33.384	33.652	28.412	30.272	0.768954	0.327286	-0.23322	-0.82404	0.587334
AE003852	1042250	64.5	32.436	27.99	25.79	30.23	0.547712	0.196902	-0.97215	-1.18576	0.581796
AE003852	1042750	71.672	30.356	29.264	39.46	22.854	1.23474	-0.0903	-0.80458	0.706323	-0.62301
AE003852	1043250	62.612	27.504	18.384	35.52	23.198	0.369543	-0.48444	-2.22548	0.162273	-0.56543
AE003852	1043750	56.972	30	23.914	30.158	21.116	-0.16861	-0.13773	-1.50167	-0.57849	-0.90455
AE003852	1044250	80.174	32.028	28.46	25.19	18.934	2.051329	0.144149	-0.90646	-1.26475	-1.26002
AE003852	1044750	63.562	32.06	29.272	18.302	21.736	0.463953	0.149523	-0.79927	-2.21662	-0.80051
AE003852	1045250	43.75	29.894	40.202	23.214	21.442	-1.42943	-0.14959	0.63029	-1.53611	-0.84725
AE003852	1045750	51.312	23.414	35.658	33.238	18.318	-0.70511	-1.04632	0.037478	-0.1484	-1.35676
AE003852	1046250	61.894	25.506	38.424	33.72	26.342	0.308011	-0.75557	0.400045	-0.08072	-0.04334
AE003852	1046750	65.172	35.006	34.054	33.774	32.498	0.622666	0.561397	-0.17003	-0.07225	0.964628
AE003852	1047250	61.924	31.298	29.406	40.042	24.122	0.313255	0.048672	-0.77643	0.795857	-0.4037
AE003852	1047750	62.358	26.982	36.062	40.08	20.346	0.355946	-0.54828	0.09454	0.802116	-1.01982
AE003852	1048250	49.76	30.906	26.744	31.5	26.22	-0.84758	-0.00375	-1.12221	-0.38382	-0.05797
AE003852	1048750	62.184	17.522	42.17	29.808	20.766	0.341683	-1.85688	0.894956	-0.61689	-0.94848
AE003852	1049250	83.24	25.968	47.878	41.082	24.02	2.356403	-0.68592	1.642029	0.943738	-0.41506
AE003852	1049750	72.486	32.418	45.274	51.496	32.754	1.329213	0.208533	1.302765	2.385393	1.014468
AE003852	1050250	64.852	30.306	32.982	41.588	26.816	0.600381	-0.0831	-0.30267	1.015742	0.044808
AE003852	1050750	84.694	27.602	29.306	37.994	27.92	2.49901	-0.45674	-0.78204	0.519557	0.226665
AE003852	1051250	75.614	33.85	34.52	31.664	27.826	1.6319	0.409732	-0.09953	-0.35512	0.212624
AE003852	1051750	56.94	28.506	32.266	22.874	22.13	-0.15266	-0.32963	-0.39305	-1.57011	-0.71746
AE003852	1052250	70.604	28.468	32.116	35.706	26.312	1.155182	-0.33395	-0.41159	0.206047	-0.03229

AE003852	1052750	75.62	35.926	37.16	41.968	19.282	1.636038	0.700144	0.248698	1.073322	-1.18051
AE003852	1053250	60.522	33.25	45.06	43.72	18.372	0.193442	0.330381	1.282254	1.316693	-1.32799
AE003852	1053750	66.968	36.32	37.09	34.5	25.892	0.811045	0.756608	0.24168	0.042218	-0.09698
AE003852	1054250	69.72	25.332	50.82	32.776	22.578	1.075399	-0.76461	2.037188	-0.19527	-0.63756
AE003852	1054750	69.182	19.452	50.046	32.16	29.622	1.02514	-1.57822	1.937096	-0.27949	0.515615
AE003852	1055250	50.576	22.944	37.98	50.174	37.728	-0.75292	-1.09353	0.361195	2.213536	1.842448
AE003852	1055750	47.906	26.992	37.49	34.868	32.584	-1.00705	-0.53183	0.29822	0.097136	1.002624
AE003852	1056250	56.99	30.11	36.954	43.028	30.524	-0.13719	-0.09895	0.229233	1.226977	0.6671
AE003852	1056750	58.208	38.206	35.496	37.46	29.176	-0.01952	1.023524	0.039745	0.457713	0.448003
AE003852	1057250	51.844	49.342	23.618	27.696	21.678	-0.62691	2.567126	-1.51159	-0.89202	-0.77675
AE003852	1057750	42.41	36.848	31.632	29.528	19.934	-1.52787	0.837284	-0.46313	-0.63758	-1.0606
AE003852	1058250	42.788	47.918	33.274	26.934	22.094	-1.49054	2.371744	-0.24746	-0.99543	-0.70607
AE003852	1058750	59.136	37.986	37.238	32.888	20.19	0.07397	0.996814	0.271678	-0.17076	-1.01608
AE003852	1059250	64.082	40.11	41.192	28.904	31.35	0.548132	1.291991	0.789511	-0.7209	0.810146
AE003852	1059750	64.762	45.424	24.664	30.776	29.052	0.614346	2.029077	-1.36955	-0.46092	0.435704
AE003852	1060250	72.862	32.426	31.322	32.42	26.406	1.390117	0.229417	-0.49832	-0.23249	0.004356
AE003852	1060750	70.69	30.514	39.296	41.888	24.21	1.183602	-0.03451	0.54491	1.078293	-0.35341
AE003852	1061250	64.146	37.024	34.624	43.342	29.726	0.559004	0.868257	-0.06463	1.280439	0.549906
AE003852	1061750	78.274	41.898	28.112	38.768	36.264	1.911217	1.54439	-0.91465	0.648683	1.620338
AE003852	1062250	65.2	23.038	24.432	40.578	32.508	0.662171	-1.06733	-1.39454	0.900078	1.007481
AE003852	1062750	63.072	23.674	33.968	34.46	26.484	0.459864	-0.97828	-0.14717	0.054728	0.023759
AE003852	1063250	53.672	28.542	33.804	41.676	30.582	-0.43785	-0.30298	-0.16754	1.053978	0.695199
AE003852	1063750	49.618	33.802	39.454	41.15	27.718	-0.82433	0.426624	0.571952	0.982214	0.228203
AE003852	1064250	59.544	43.446	30.956	41.722	32.678	0.126054	1.763542	-0.53763	1.062346	1.040598
AE003852	1064750	71.058	39.886	29.698	38.68	30.596	1.228297	1.271319	-0.70098	0.642524	0.701477
AE003852	1065250	57.08	33.06	32.428	32.594	25.158	-0.1072	0.326661	-0.34311	-0.1984	-0.18642
AE003852	1065750	55.366	31.264	29.67	47.206	24.692	-0.26991	0.078804	-0.70251	1.823999	-0.26129
AE003852	1066250	59.49	27.838	25.634	52.974	22.204	0.125642	-0.39486	-1.22893	2.622935	-0.6668
AE003852	1066750	57.952	24.282	29.276	47.368	25.75	-0.02025	-0.88652	-0.75187	1.848415	-0.08563
AE003852	1067250	54.934	29.696	31.052	39.45	21.384	-0.30766	-0.13558	-0.51869	0.754056	-0.79823
AE003852	1067750	48.16	16.314	38.874	39.116	24.13	-0.95425	-1.98844	0.504673	0.708853	-0.34787
AE003852	1068250	50.674	18.916	30.262	37.174	28.562	-0.71266	-1.62705	-0.61981	0.441203	0.378182
AE003852	1068750	54.482	22.568	37.132	31.172	32.556	-0.34732	-1.1202	0.279133	-0.3881	1.032615
AE003852	1069250	65.682	26.794	43.6	33.402	23.038	0.724896	-0.53383	1.125534	-0.0786	-0.52245
AE003852	1069750	61.04	27.354	43.048	41.728	18.916	0.282181	-0.45531	1.054456	1.074202	-1.19516
AE003852	1070250	51.796	35.134	40.186	44.376	20.318	-0.60061	0.623387	0.681472	1.441524	-0.96457
AE003852	1070750	44.166	36.482	37.164	25.862	20.07	-1.32906	0.811066	0.287577	-1.11867	-1.00379

AE003852	1071250	49.602	22.83	28.936	33.926	20.844	-0.80804	-1.07919	-0.78672	-0.0021	-0.8759
AE003852	1071750	56.608	26.442	31.53	27.382	25.77	-0.13689	-0.57788	-0.44663	-0.90639	-0.06906
AE003852	1072250	55.732	28.63	27.682	35.702	30.916	-0.21947	-0.27384	-0.94848	0.245589	0.773747
AE003852	1072750	59.986	41.812	21.152	46.742	24.502	0.188517	1.553193	-1.80085	1.773844	-0.27375
AE003852	1073250	58.618	37.948	28.734	38.432	23.138	0.058887	1.018858	-0.80885	0.625256	-0.49546
AE003852	1073750	64.246	28.4	29.818	39.236	30.002	0.598266	-0.30288	-0.66612	0.737483	0.628278
AE003852	1074250	53.62	23.288	19.872	26.146	21.128	-0.41668	-1.0101	-1.96494	-1.07236	-0.82148
AE003852	1074750	56.642	28.004	38.11	27.208	20.788	-0.12651	-0.35585	0.419738	-0.92444	-0.87575
AE003852	1075250	70.556	38.318	38.604	17.76	23.154	1.20524	1.073881	0.485367	-2.23046	-0.48753
AE003852	1075750	54.024	23.606	40.876	15.788	28.846	-0.37449	-0.96322	0.783372	-2.50226	0.444566
AE003852	1076250	43.39	19.91	32.152	35.556	22.744	-1.3902	-1.47428	-0.35575	0.23341	-0.55191
AE003852	1076750	43.458	32.202	31.408	33.824	22.942	-1.38251	0.229461	-0.45192	-0.00519	-0.5182
AE003852	1077250	44.12	37.13	28.512	35.608	32.652	-1.31802	0.913075	-0.82935	0.242609	1.070916
AE003852	1077750	47.094	33.844	29.012	35.806	23.006	-1.03243	0.458809	-0.76293	0.271002	-0.50508
AE003852	1078250	41.41	36.164	47.572	42.786	17.604	-1.57479	0.781139	1.663833	1.237604	-1.38709
AE003852	1078750	50.57	38.738	41.18	29.868	23.876	-0.69766	1.138655	0.829496	-0.54844	-0.36016
AE003852	1079250	44.234	34.866	28.63	30.968	30.528	-1.30236	0.603211	-0.80966	-0.39527	0.728916
AE003852	1079750	57.342	25.894	36.66	31.02	29.634	-0.04769	-0.63873	0.240885	-0.38707	0.584057
AE003852	1080250	71.258	29.636	48.924	42.604	26.06	1.28425	-0.11941	1.844795	1.216436	0.000962
AE003852	1080750	78.018	16.8	36.41	38.512	28.346	1.93188	-1.89663	0.210342	0.651359	0.376101
AE003852	1081250	68.184	20.472	39.51	37.394	25.402	0.992667	-1.38701	0.616562	0.4977	-0.10398
AE003852	1081750	57.716	21.33	34.57	40.748	29.352	-0.00717	-1.26721	-0.02801	0.962688	0.543263
AE003852	1082250	52.704	24.014	38.53	26.598	26.068	-0.48527	-0.89446	0.490612	-0.99379	0.007589
AE003852	1082750	56.698	25.81	30.356	26.342	30.41	-0.10215	-0.64472	-0.57662	-1.02821	0.718927
AE003852	1083250	62.022	26.864	26.428	33.192	28.686	0.408163	-0.49777	-1.08893	-0.07959	0.438346
AE003852	1083750	41.266	27.782	29.942	47.09	29.886	-1.57549	-0.36965	-0.6286	1.844038	0.635901
AE003852	1084250	50.87	31.942	22.574	44.9	25.78	-0.6559	0.207569	-1.5905	1.54208	-0.03419
AE003852	1084750	49.132	33.906	29.34	40.276	25.064	-0.82091	0.480581	-0.70515	0.903407	-0.14994
AE003852	1085250	52.738	16.638	22.278	38.998	29.89	-0.47489	-1.9106	-1.62705	0.727613	0.640544
AE003852	1085750	54.536	20.546	26.828	29.758	23.124	-0.30176	-1.36829	-1.03132	-0.54963	-0.46451
AE003852	1086250	51.146	30.054	27.118	34.972	21.29	-0.62475	-0.05021	-0.99236	0.172669	-0.76308
AE003852	1086750	51.12	31.5	40.606	29.784	25.554	-0.62605	0.151047	0.771524	-0.54403	-0.0645
AE003852	1087250	44.816	28.564	38.97	27.914	25.594	-1.2277	-0.25473	0.558773	-0.80172	-0.05662
AE003852	1087750	40.122	30.556	36.054	28.42	22.906	-1.67539	0.022159	0.178731	-0.73072	-0.49484
AE003852	1088250	58.892	27.07	32.17	33.396	24.332	0.120729	-0.45981	-0.32782	-0.04134	-0.26033
AE003852	1088750	57.608	29.382	29.116	28.436	27.47	-0.00087	-0.13859	-0.7259	-0.7265	0.25413
AE003852	1089250	51.522	35.26	32.584	36.734	28.33	-0.58167	0.676625	-0.27158	0.422435	0.396088

AE003852	1089750	52.438	38.074	37.124	37.098	26.144	-0.49289	1.067388	0.322837	0.473792	0.03996
AE003852	1090250	53.508	25.382	28.284	35.118	20.158	-0.38938	-0.68988	-0.83144	0.200885	-0.93755
AE003852	1090750	49.142	17.658	25.958	33.238	18.444	-0.8057	-1.75894	-1.13437	-0.05819	-1.21649
AE003852	1091250	43.348	25.496	25.834	26.648	22.526	-1.35858	-0.67221	-1.14951	-0.96883	-0.54767
AE003852	1091750	56.13	30.606	32.934	23.628	27.252	-0.13508	0.036619	-0.22051	-1.38561	0.22646
AE003852	1092250	69.764	22.02	25.69	27.214	27.94	1.169895	-1.15185	-1.1662	-0.88853	0.340292
AE003852	1092750	61.554	33.244	22.224	28.61	27.144	0.385981	0.403942	-1.61813	-0.69441	0.211459
AE003852	1093250	57.012	38.802	34.086	24.256	23.03	-0.04717	1.174829	-0.06676	-1.29573	-0.45994
AE003852	1093750	51.296	37.682	40.288	26.15	19.442	-0.59259	1.020618	0.74488	-1.03271	-1.04532
AE003852	1094250	56.788	34.698	35.324	25.71	22.256	-0.06622	0.608188	0.097175	-1.09258	-0.58384
AE003852	1094750	53.078	42.464	31.972	35.26	26.28	-0.41981	1.684948	-0.33985	0.22955	0.075495
AE003852	1095250	48.254	36.796	25.312	38.646	21.804	-0.87992	0.900706	-1.20921	0.698966	-0.6551
AE003852	1095750	53.252	30.574	33.424	32.398	18.868	-0.40079	0.039719	-0.14795	-0.16437	-1.13387
AE003852	1096250	64.06	28.616	27.228	31.694	17.38	0.63394	-0.23058	-0.95667	-0.26076	-1.37586
AE003852	1096750	52.312	24.302	25.708	27.98	19.126	-0.4883	-0.82725	-1.15426	-0.77354	-1.08902
AE003852	1097250	47.114	23.96	27.748	35.466	22.948	-0.98419	-0.87369	-0.88658	0.26306	-0.46271
AE003852	1097750	50.762	32.006	32.486	31.902	29.024	-0.63415	0.241859	-0.26628	-0.22897	0.532175
AE003852	1098250	71.578	27.738	26.432	27.174	29.532	1.357619	-0.34844	-1.05644	-0.88203	0.616573
AE003852	1098750	63.238	27.018	34.752	24.544	32.538	0.561274	-0.44724	0.032007	-1.24486	1.109448
AE003852	1099250	59.052	23.106	37.7	33.292	29.308	0.162165	-0.98823	0.418361	-0.03368	0.582604
AE003852	1099750	46.562	22.01	38.54	34.688	26.584	-1.03103	-1.13911	0.52921	0.160445	0.138501
AE003852	1100250	50.794	25.85	37.644	38.518	30.77	-0.62515	-0.60622	0.413173	0.691282	0.824331
AE003852	1100750	50.938	23.314	46.784	40.498	30.274	-0.61019	-0.95659	1.608791	0.966194	0.744554
AE003852	1101250	48.978	24.688	40.134	37.516	25.886	-0.79643	-0.76531	0.740735	0.554672	0.028352
AE003852	1101750	53.644	22.912	43.386	34.134	16.968	-0.34905	-1.01039	1.16682	0.087815	-1.4286
AE003852	1102250	51.372	37.32	45.606	25.246	22.338	-0.56513	0.986479	1.458029	-1.14073	-0.54916
AE003852	1102750	60.122	25.44	34.036	33.364	19.474	0.272803	-0.65831	-0.05305	-0.0167	-1.01616
AE003852	1103250	54.784	34.29	27.278	27.724	27.388	-0.23647	0.568618	-0.93522	-0.79592	0.27928
AE003852	1103750	56.09	35.602	33.15	41.402	25.348	-0.11039	0.75131	-0.16671	1.097266	-0.05297
AE003852	1104250	56.81	33.172	32.144	29.01	21.922	-0.04035	0.415626	-0.29713	-0.61602	-0.61187
AE003852	1104750	69.144	19.81	29.916	29.776	25.988	1.140306	-1.43446	-0.58725	-0.50905	0.054339
AE003852	1105250	63.312	32.15	33.54	28.946	26.456	0.583794	0.275933	-0.11254	-0.62287	0.132196
AE003852	1105750	65.098	20.886	20.112	34.202	25.02	0.755773	-1.28352	-1.86645	0.105241	-0.10129
AE003852	1106250	56.588	20.794	39.574	38.924	33.21	-0.05683	-1.29532	0.6782	0.759476	1.239278
AE003852	1106750	50.622	30.148	35.908	30.782	27.996	-0.62615	0.001422	0.200137	-0.36587	0.388008
AE003852	1107250	54.296	20.522	24.788	31.168	22.018	-0.27363	-1.33112	-1.25213	-0.31147	-0.58819
AE003852	1107750	61.626	24.172	37.456	32.758	25.204	0.428506	-0.82454	0.404584	-0.09051	-0.06588

AE003852	1108250	62.656	25.536	31.822	27.802	32.124	0.528191	-0.63465	-0.33069	-0.77511	1.067012
AE003852	1108750	61.058	23.292	36.95	23.106	19.576	0.376566	-0.94457	0.340583	-1.42374	-0.98352
AE003852	1109250	50.998	33.328	36.344	31.704	19.966	-0.58426	0.446653	0.262448	-0.23331	-0.91842
AE003852	1109750	47.104	36.208	25.686	29.394	13.83	-0.95544	0.846559	-1.12943	-0.55187	-1.92046
AE003852	1110250	56.814	22.26	31.112	34.764	16.142	-0.02571	-1.0847	-0.41922	0.192009	-1.54107
AE003852	1110750	69.216	25.712	43.244	34.484	19.226	1.161447	-0.60556	1.16744	0.154276	-1.03544
AE003852	1111250	53.986	34.958	37.132	40.152	28.222	-0.29377	0.676223	0.369697	0.939379	0.43693
AE003852	1111750	53.276	34.586	33.252	34.424	24.738	-0.36048	0.625631	-0.13633	0.147981	-0.13145
AE003852	1112250	58.606	27.458	42.3	34.954	28.73	0.150403	-0.36086	1.04726	0.222302	0.522658
AE003852	1112750	48.314	36.71	44.332	22.908	26.86	-0.83261	0.921751	1.313898	-1.44312	0.218203
AE003852	1113250	57.024	27.658	36.286	12.36	27.568	0.001496	-0.33127	0.263391	-2.9013	0.335306
AE003852	1113750	55.282	29.038	27.236	28.05	33.088	-0.1639	-0.13916	-0.91833	-0.72978	1.239273
AE003852	1114250	58.05	31.29	23.004	42.622	27.186	0.101986	0.173748	-1.47037	1.287088	0.2755
AE003852	1114750	53.808	23.22	14.964	29.294	33.648	-0.30248	-0.94324	-2.52009	-0.55568	1.333504
AE003852	1115250	53.172	25.54	23.516	32.602	27.798	-0.36211	-0.62091	-1.40132	-0.09705	0.378234
AE003852	1115750	69.136	25.82	29.432	31.468	23.89	1.165677	-0.58118	-0.62707	-0.25293	-0.25948
AE003852	1116250	60.804	23.302	35.116	20.688	27.252	0.370096	-0.92906	0.116871	-1.74321	0.291611
AE003852	1116750	46.362	26.244	38.784	22.184	25.932	-1.00977	-0.52056	0.597325	-1.53525	0.077092
AE003852	1117250	50.596	29.212	41.454	29.512	25.9	-0.60369	-0.10847	0.947347	-0.52051	0.073189
AE003852	1117750	52.994	33.328	40.956	31.192	28.942	-0.37319	0.462662	0.883326	-0.2871	0.57195
AE003852	1118250	62.182	33.034	40.634	31.792	26.784	0.506623	0.422876	0.842308	-0.20309	0.220401
AE003852	1118750	53.192	20.346	39.774	23.988	28.092	-0.35188	-1.33384	0.730975	-1.28168	0.435616
AE003852	1119250	63.74	28.922	50.654	20.738	24.576	0.657987	-0.14487	2.154003	-1.73028	-0.13799
AE003852	1119750	63.59	30.106	35.996	31.032	27.016	0.644831	0.020087	0.239341	-0.30522	0.262327
AE003852	1120250	63.322	42.142	26.284	37.874	28.614	0.62039	1.688366	-1.0289	0.642288	0.524963
AE003852	1120750	57.104	27.988	31.71	41.616	31.886	0.026967	-0.27143	-0.31869	1.160951	1.061334
AE003852	1121250	52.562	22.436	40.846	38.514	34.552	-0.40619	-1.03961	0.876408	0.732829	1.498612
AE003852	1121750	55.118	28.876	43.758	40.942	44.066	-0.16057	-0.14654	1.258057	1.069716	3.055682
AE003852	1122250	53.82	27.804	41.408	34.334	27.306	-0.28351	-0.2941	0.951989	0.15658	0.316396
AE003852	1122750	42.024	29.81	32.18	35.378	23.544	-1.41034	-0.01527	-0.253	0.302008	-0.29744
AE003852	1123250	47.274	28.602	40.898	36.31	30.896	-0.90711	-0.18167	0.887466	0.431941	0.906096
AE003852	1123750	53.34	29.882	40.034	36.622	28.058	-0.32585	-0.00341	0.775611	0.476105	0.443353
AE003852	1124250	66.534	37.442	41.898	35.94	21.658	0.93705	1.044812	1.020292	0.382761	-0.60185
AE003852	1124750	55.728	31.672	35.078	34.056	12.392	-0.09511	0.246441	0.130017	0.123134	-2.11571
AE003852	1125250	56.238	31.864	31.646	25.344	20.714	-0.04515	0.27398	-0.31746	-1.08106	-0.75356
AE003852	1125750	49.93	35.792	35.23	30.238	19.668	-0.64719	0.819064	0.152014	-0.40304	-0.92327
AE003852	1126250	50.78	24.338	30.064	30.31	22.426	-0.56471	-0.76671	-0.52209	-0.39207	-0.47095

AE003852	1126750	49.854	28.998	37.164	29.328	16.756	-0.65208	-0.12022	0.406909	-0.52692	-1.39679
AE003852	1127250	47.094	22.928	38.102	34.818	13.434	-0.91482	-0.96015	0.530566	0.23356	-1.93867
AE003852	1127750	46.248	22.356	27.604	28.206	20.784	-0.99453	-1.03845	-0.8404	-0.68013	-0.73546
AE003852	1128250	41.052	32.874	40.01	32.488	30.9	-1.49023	0.419545	0.782063	-0.08676	0.920046
AE003852	1128750	52.744	35.018	32.524	29.788	28.506	-0.37096	0.717493	-0.19525	-0.45927	0.529906
AE003852	1129250	56.78	34.61	24.4	25.5	27.862	0.016179	0.661915	-1.25596	-1.05146	0.425928
AE003852	1129750	53.2	29.394	22.316	23.26	27.77	-0.32498	-0.05971	-1.52726	-1.36034	0.412214
AE003852	1130250	51.114	24.128	18.116	24.496	32.202	-0.52327	-0.78827	-2.07511	-1.18835	1.13827
AE003852	1130750	54.678	38.578	39.262	22.982	19.234	-0.18127	1.214423	0.689631	-1.39679	-0.98094
AE003852	1131250	52.768	36.276	41.346	24.586	15.646	-0.36273	0.896471	0.963065	-1.1739	-1.56633
AE003852	1131750	51.656	31.3	39.67	23.784	21.11	-0.46788	0.208091	0.745085	-1.28384	-0.67152
AE003852	1132250	57.95	20.798	24.99	14.562	13.19	0.135191	-1.2458	-1.17245	-2.55859	-1.96528
AE003852	1132750	63.104	22.35	32.118	27.258	17.484	0.629244	-1.02986	-0.23979	-0.80125	-1.26179
AE003852	1133250	48.446	33.386	38.786	34.59	28.538	-0.77128	0.499888	0.632747	0.214047	0.547105
AE003852	1133750	58.636	33.41	34.14	31.744	23.75	0.204356	0.504155	0.026603	-0.17866	-0.2345
AE003852	1134250	66.166	30.708	38.414	32.584	21.048	0.925619	0.13079	0.586259	-0.06145	-0.67501
AE003852	1134750	74.348	26.446	34.436	29.578	25.106	1.709231	-0.45868	0.06742	-0.4763	-0.01011
AE003852	1135250	63.382	29.172	21.624	13.956	23.224	0.661768	-0.08011	-1.60598	-2.63641	-0.31653
AE003852	1135750	56.792	29.188	29.38	24.912	27.244	0.032771	-0.07695	-0.59124	-1.11978	0.342157
AE003852	1136250	46.91	25.678	25.426	36.468	35.11	-0.91103	-0.56224	-1.10695	0.479861	1.629745
AE003852	1136750	43.546	32.496	19.872	35.166	33.144	-1.23154	0.383189	-1.83176	0.300747	1.309591
AE003852	1137250	53.298	27.582	27.468	27.35	30.892	-0.29779	-0.2966	-0.83794	-0.7795	0.942671
AE003852	1137750	63.626	34.584	35.492	31.896	27.592	0.691041	0.674321	0.211827	-0.14961	0.404381
AE003852	1138250	61.146	38.884	39.18	26.184	20.794	0.455073	1.270938	0.694896	-0.9388	-0.70591
AE003852	1138750	47.216	26.414	26.662	31.468	15.81	-0.87583	-0.45558	-0.94008	-0.20682	-1.51957
AE003852	1139250	55.428	34.864	26.464	28.764	22.95	-0.08935	0.715934	-0.96489	-0.57988	-0.3507
AE003852	1139750	58.204	38.34	32.058	35.136	32.658	0.177301	1.198403	-0.23272	0.302611	1.238098
AE003852	1140250	56.104	25.526	37.156	39.142	34.29	-0.02233	-0.57577	0.434631	0.857796	1.506294
AE003852	1140750	69.956	27.104	31.972	38.436	36.828	1.303491	-0.35623	-0.24183	0.761131	1.92264
AE003852	1141250	74.644	36.998	26.804	31.984	37.198	1.752981	1.015322	-0.91619	-0.13042	1.984473
AE003852	1141750	62.78	42.522	30.076	32.206	26.138	0.619644	1.781499	-0.48749	-0.09871	0.177257
AE003852	1142250	60.01	34.278	35.514	30.69	28.91	0.355944	0.640406	0.224291	-0.30743	0.631868
AE003852	1142750	68.48	26.642	30.956	29.366	26.978	1.167097	-0.41646	-0.37035	-0.48959	0.317275
AE003852	1143250	53.44	19.372	35.686	37.782	24.808	-0.26995	-1.42263	0.248902	0.67567	-0.03624
AE003852	1143750	49.964	24.092	37.526	35.964	29.906	-0.60117	-0.76783	0.490446	0.425174	0.798724
AE003852	1144250	32.852	28.596	38.45	30.816	25.448	-2.23636	-0.14295	0.612274	-0.28599	0.071076
AE003852	1144750	40.19	25.438	22.338	29.882	26.402	-1.53345	-0.57948	-1.49242	-0.41419	0.228405

AE003852	1145250	56.078	26.96	34.076	34.606	19.798	-0.01294	-0.3677	0.042745	0.240318	-0.85016
AE003852	1145750	47.732	30.416	26.582	32.398	23.274	-0.80985	0.111998	-0.93562	-0.06413	-0.28043
AE003852	1146250	39.17	29.026	24.454	40.916	23.298	-1.62743	-0.07962	-1.21267	1.115236	-0.27518
AE003852	1146750	43.426	32.792	17.808	33.768	21.73	-1.21925	0.443027	-2.08021	0.127398	-0.53025
AE003852	1147250	62.886	37.514	23.624	26.8	23.626	0.642849	1.098103	-1.31902	-0.83554	-0.21888
AE003852	1147750	72.824	32.314	23.962	41.914	25.838	1.594383	0.378693	-1.27378	1.256305	0.144156
AE003852	1148250	72.452	20.314	28.932	37.456	24.9	1.559997	-1.28272	-0.62316	0.640596	-0.0079
AE003852	1148750	67.036	25.342	34	40.372	24.3	1.043267	-0.58525	0.04027	1.044992	-0.10468
AE003852	1149250	69.85	49.496	38.27	42.64	27.802	1.313551	2.761727	0.599403	1.359745	0.469301
AE003852	1149750	68.826	44.842	41.746	43.398	29.8	1.216816	2.117954	1.054765	1.465608	0.797346
AE003852	1150250	69.396	36.026	36.982	31.832	26.486	1.272512	0.897622	0.433199	-0.13341	0.256766
AE003852	1150750	76.798	42.64	27.306	26.56	25.19	1.981534	1.814796	-0.83034	-0.86172	0.046172
AE003852	1151250	66.608	33.008	34.838	39.618	24.886	1.008278	0.481424	0.15512	0.945697	-0.00221
AE003852	1151750	65.87	32.478	34.624	37.672	25.828	0.938893	0.408945	0.128216	0.677493	0.153158
AE003852	1152250	66.638	32.55	31.488	29.766	25.656	1.013523	0.419861	-0.28058	-0.41521	0.126362
AE003852	1152750	67.7	30.08	39.558	27.424	26.736	1.116268	0.078636	0.775197	-0.73819	0.304294
AE003852	1153250	51.182	29.812	30.162	38.044	29.584	-0.46212	0.042452	-0.45175	0.731962	0.771333
AE003852	1153750	54.674	36.16	30.08	44.944	26.016	-0.127	0.922776	-0.4614	1.687497	0.189218
AE003852	1154250	76.642	29.072	29.054	39.346	31.58	1.974933	-0.05818	-0.59443	0.914083	1.10038
AE003852	1154750	79.324	30.172	25.494	34.932	29.97	2.232594	0.095147	-1.05864	0.304461	0.838441
AE003852	1155250	61.796	26.102	30.014	32.188	21.732	0.557623	-0.46773	-0.46683	-0.07414	-0.50732
AE003852	1155750	63.728	27.79	22.882	18.75	19.84	0.743563	-0.23295	-1.39788	-1.93212	-0.81537
AE003852	1156250	61.034	32.002	39.562	29.994	29.338	0.487131	0.35148	0.783178	-0.37564	0.739084
AE003852	1156750	59.216	26.018	39.76	35.65	25.338	0.314468	-0.47654	0.810121	0.407798	0.086329
AE003852	1157250	46.03	32.332	28.922	36.636	30.938	-0.94529	0.399078	-0.60529	0.545201	1.003377
AE003852	1157750	46.47	29.942	29.374	36.924	29.192	-0.90202	0.068935	-0.54515	0.586045	0.719199
AE003852	1158250	55.088	22.2	27.598	35.896	27.37	-0.07672	-1.00262	-0.7762	0.444836	0.422592
AE003852	1158750	86.868	27.076	32.462	44.924	26.274	2.963511	-0.32621	-0.13943	1.694755	0.244703
AE003852	1159250	69.708	28.304	35.744	48.516	24.124	1.323731	-0.15515	0.290577	2.192667	-0.10554
AE003852	1159750	78.524	36.046	45.276	30.876	30.688	2.167972	0.918284	1.537427	-0.24661	0.969145
AE003852	1160250	51.026	35.748	35.686	29.208	34.588	-0.46041	0.877944	0.285127	-0.47636	1.608207
AE003852	1160750	38.74	32.972	35.364	26.786	33.87	-1.6341	0.494329	0.244109	-0.81041	1.492129
AE003852	1161250	48.574	23.096	35.014	28.644	38.278	-0.69251	-0.87284	0.199431	-0.55238	2.21426
AE003852	1161750	55.784	23.83	37.758	32.746	29.998	-0.00185	-0.77022	0.559124	0.016088	0.861634
AE003852	1162250	48.046	31.896	40.726	33.942	27.368	-0.74062	0.348096	0.948092	0.182542	0.432902
AE003852	1162750	47.838	39.404	34.134	39.018	21.88	-0.75933	1.389115	0.087616	0.885749	-0.46317
AE003852	1163250	45.692	37.208	30.954	23.448	23.498	-0.96335	1.085847	-0.32693	-1.26717	-0.19727

AE003852	1163750	51.086	27.862	32.07	27.672	20.434	-0.44635	-0.20791	-0.18001	-0.68183	-0.69697
AE003852	1164250	50.342	26.916	22.306	29.96	12.352	-0.51631	-0.33801	-1.45505	-0.36431	-2.01721
AE003852	1164750	47.016	24.728	23.77	40.198	21.802	-0.83318	-0.64017	-1.26265	1.052997	-0.47061
AE003852	1165250	48.174	29.942	22.57	41.04	30.786	-0.72126	0.08306	-1.41841	1.17048	0.999795
AE003852	1165750	49.84	22.752	25.99	30.458	31.186	-0.56075	-0.91202	-0.97037	-0.29241	1.066534
AE003852	1166250	53.79	32.64	28.406	27.724	20.192	-0.18184	0.458695	-0.65355	-0.66962	-0.72989
AE003852	1166750	63.036	32.638	34.136	25.836	23.458	0.703525	0.45936	0.096401	-0.9298	-0.1945
AE003852	1167250	54.108	35.69	36.972	25.764	20.832	-0.14905	0.883093	0.468118	-0.93876	-0.62258
AE003852	1167750	53.786	25.978	27.336	38.366	17.948	-0.17865	-0.46136	-0.79019	0.805576	-1.09284
AE003852	1168250	60.402	27.076	32.188	47.668	21.864	0.455206	-0.30831	-0.155	2.093399	-0.45116
AE003852	1168750	63.928	37.946	34.486	27.74	29.174	0.793577	1.19844	0.146406	-0.6624	0.745506
AE003852	1169250	66.876	21.536	36.04	26.83	23.292	1.076674	-1.07388	0.350572	-0.78728	-0.215
AE003852	1169750	53.74	22.492	34.132	25.408	18.304	-0.1783	-0.94051	0.102271	-0.983	-1.02931
AE003852	1170250	46.67	32.616	22.014	32.912	22.976	-0.8532	0.462904	-1.48043	0.056092	-0.26401
AE003852	1170750	55.152	31.862	20.67	32.062	29.114	-0.0409	0.359395	-1.65501	-0.06049	0.741014
AE003852	1171250	55.86	32.174	32.488	30.976	30.382	0.027994	0.403558	-0.1094	-0.20973	0.949688
AE003852	1171750	54.51	31.282	34.03	33.036	20.346	-0.09992	0.280931	0.093202	0.076253	-0.69008
AE003852	1172250	45.026	23.9	29.776	32.58	17.832	-1.00566	-0.74075	-0.46171	0.014174	-1.09984
AE003852	1172750	53.268	30.51	41.942	39.654	20.986	-0.21631	0.17587	1.129392	0.99378	-0.58277
AE003852	1173250	55.97	34.31	27.464	30.93	20.086	0.043265	0.703223	-0.76175	-0.21208	-0.72861
AE003852	1173750	56.424	31.854	21.818	22.146	24.198	0.087868	0.363937	-1.49858	-1.42624	-0.05488
AE003852	1174250	64.666	30.636	21.346	46.312	20.186	0.877218	0.19615	-1.55921	1.917842	-0.7096
AE003852	1174750	68.116	30.65	38.66	34.234	24.444	1.20832	0.199031	0.704713	0.247997	-0.01199
AE003852	1175250	66.502	22.314	41.634	23.954	31.626	1.055166	-0.95481	1.094465	-1.17312	1.163745
AE003852	1175750	57.416	22.018	32.978	28.384	36.75	0.187482	-0.99487	-0.03577	-0.55928	2.002958
AE003852	1176250	69.254	21.202	31.518	42.862	28.776	1.320709	-1.10697	-0.22551	1.444585	0.700369
AE003852	1176750	59.972	28.854	31.338	37.962	26.664	0.434282	-0.046	-0.24797	0.767731	0.356342
AE003852	1177250	48.702	22.46	40.612	30.412	22.92	-0.64225	-0.93081	0.965157	-0.27572	-0.25455
AE003852	1177750	58.632	30.768	37.234	34.034	21.642	0.308517	0.221027	0.524734	0.226343	-0.4622
AE003852	1178250	53.482	31.47	41.072	31.824	27.398	-0.18278	0.319216	1.027407	-0.07838	0.480355
AE003852	1178750	43.034	24.446	40.226	37.808	25.224	-1.1807	-0.65287	0.917905	0.750436	0.12619
AE003852	1179250	48.748	27.974	36.126	33.114	26.568	-0.6331	-0.1632	0.383121	0.102079	0.347292
AE003852	1179750	49.976	26.058	26.29	28.858	23.512	-0.51448	-0.42768	-0.90133	-0.48569	-0.1511
AE003852	1180250	56.692	24.34	31.144	29.14	19.928	0.12894	-0.66473	-0.26587	-0.44567	-0.73583
AE003852	1180750	52.562	21.86	50.678	34.042	20.23	-0.26481	-1.00734	2.288191	0.233464	-0.68512
AE003852	1181250	33.11	30.004	28.788	30.504	24.288	-2.12377	0.121783	-0.57166	-0.25497	-0.02022
AE003852	1181750	45.892	38.652	25.364	33.99	17.488	-0.90027	1.320725	-1.01809	0.228275	-1.13083

AE003852	1182250	60.142	31.66	35.538	34.33	25.552	0.463607	0.35307	0.312665	0.276313	0.189132
AE003852	1182750	49.628	30.004	30.862	40.232	17.246	-0.54063	0.124608	-0.2974	1.093787	-1.16775
AE003852	1183250	56.648	29.866	29.46	31.388	19.402	0.13186	0.106432	-0.47957	-0.12867	-0.81386
AE003852	1183750	46.686	43.002	38.526	25.33	18.076	-0.81959	1.927093	0.706378	-0.96572	-1.02936
AE003852	1184250	49.006	35.514	32.13	29.298	21.92	-0.59655	0.890728	-0.12848	-0.41579	-0.39946
AE003852	1184750	50.238	38.12	32.226	30.386	20.054	-0.47755	1.252677	-0.11487	-0.26428	-0.70326
AE003852	1185250	57.074	28.73	32.446	29.882	15.816	0.17735	-0.04717	-0.08505	-0.333	-1.39493
AE003852	1185750	51.012	26.96	28.856	33.5	18.828	-0.40116	-0.29143	-0.55318	0.168509	-0.90108
AE003852	1186250	67.576	22.354	38.666	35.616	22.27	1.184006	-0.92855	0.730002	0.462235	-0.33691
AE003852	1186750	53.42	26.906	38.81	40.696	23.836	-0.16851	-0.29702	0.749888	1.165994	-0.0795
AE003852	1187250	65.19	27.814	46.04	27.688	21.078	0.958214	-0.1703	1.695878	-0.6325	-0.52917
AE003852	1187750	54.256	35.726	33.958	29.734	23.566	-0.08619	0.926688	0.117887	-0.34846	-0.121
AE003852	1188250	51.596	35.74	32.618	25.398	26.956	-0.33937	0.929569	-0.05618	-0.94729	0.434671
AE003852	1188750	55.23	28.262	36.828	27.284	22.206	0.009328	-0.10541	0.495112	-0.68539	-0.34073
AE003852	1189250	55.058	25.586	35.09	33.448	16.128	-0.00593	-0.47517	0.26903	0.168332	-1.33328
AE003852	1189750	49.492	39.97	30.47	35.2	28.19	-0.53701	1.518373	-0.33372	0.411703	0.640445
AE003852	1190250	56.668	33.718	34.566	37.246	31.462	0.150405	0.65323	0.202676	0.695745	1.176816
AE003852	1190750	66.866	29.06	28.136	32.858	22.65	1.126802	0.008903	-0.63663	0.08972	-0.2628
AE003852	1191250	54.53	21.922	33.19	33.86	19.376	-0.05167	-0.97898	0.024971	0.229337	-0.79684
AE003852	1191750	44.9	25.074	34.348	31.836	33.424	-0.97138	-0.54139	0.177381	-0.04966	1.501633
AE003852	1192250	57.352	24.686	35.512	32.758	41.796	0.220566	-0.5942	0.330576	0.078893	2.871963
AE003852	1192750	59.624	32.224	24.414	39.148	28.024	0.43902	0.450976	-1.11881	0.963876	0.621278
AE003852	1193250	52.782	25.84	36.058	41.894	30.096	-0.21408	-0.43245	0.404066	1.344754	0.961423
AE003852	1193750	56.702	22.678	41.042	42.504	26.302	0.161972	-0.86954	1.056516	1.430143	0.342353
AE003852	1194250	81.196	27.78	46.966	29.858	23.022	2.50546	-0.16182	1.831819	-0.31828	-0.19267
AE003852	1194750	60.178	33.49	32.598	21.482	21.746	0.496749	0.63012	-0.04494	-1.476	-0.39999
AE003852	1195250	47.868	26.434	19.252	27.938	23.31	-0.67924	-0.3464	-1.78813	-0.58188	-0.14291
AE003852	1195750	45.942	28.15	35.374	26.092	22.024	-0.86223	-0.10774	0.319998	-0.83625	-0.35187
AE003852	1196250	56.992	31.592	43.596	28.994	21.71	0.195644	0.370017	1.395638	-0.43379	-0.40189
AE003852	1196750	57.654	31.436	46.13	33.536	20.236	0.260137	0.349348	1.727885	0.195541	-0.64159
AE003852	1197250	43.43	43.01	48.11	43.392	31.404	-1.09888	1.953627	1.987726	1.560004	1.185946
AE003852	1197750	59.902	31.89	46.544	40.318	27.262	0.477484	0.414124	1.784123	1.135755	0.509971
AE003852	1198250	64.032	26.378	37.804	31.588	24.1	0.873614	-0.34851	0.642914	-0.07093	-0.00575
AE003852	1198750	59.804	30.87	36.44	27.468	25.968	0.470489	0.274707	0.465712	-0.63988	0.301033
AE003852	1199250	55.32	23.85	39.82	25.858	18.054	0.042883	-0.69683	0.908526	-0.86161	-0.99174
AE003852	1199750	62.48	21.072	40.57	29.196	19.274	0.728764	-1.08072	1.007613	-0.39883	-0.79092
AE003852	1200250	65.574	32.23	22.424	32.228	19.71	1.025823	0.465932	-1.36291	0.021612	-0.71829

AE003852	1200750	46.616	42.59	22.424	41.764	18.098	-0.78589	1.902036	-1.36185	1.341806	-0.98056
AE003852	1201250	45.052	32.438	25.808	26.852	12.966	-0.93427	0.496629	-0.91851	-0.72009	-1.81842
AE003852	1201750	58.108	23.594	37.56	36.298	21.288	0.315432	-0.72758	0.618483	0.587655	-0.45627
AE003852	1202250	56.786	25.968	34.542	38.342	16.246	0.190201	-0.39777	0.225111	0.87142	-1.27941
AE003852	1202750	51.48	28.164	37.466	34.342	17.254	-0.31601	-0.09262	0.608329	0.319071	-1.11325
AE003852	1203250	56.2	31.222	39.152	33.674	12.682	0.136539	0.331945	0.829746	0.227663	-1.85954
AE003852	1203750	64.652	29.514	37.188	28.598	13.94	0.945971	0.096278	0.574126	-0.47354	-1.6525
AE003852	1204250	58.982	41.972	30.54	21.904	16.166	0.404951	1.823017	-0.29367	-1.39857	-1.28718
AE003852	1204750	70.152	29.112	22.08	28.198	35.66	1.474298	0.042473	-1.39828	-0.52687	1.901837
AE003852	1205250	52.748	23.792	38.578	25.238	30.582	-0.18882	-0.69356	0.758989	-0.93535	1.072805
AE003852	1205750	50.37	25.45	28.44	35.598	29.356	-0.41503	-0.46294	-0.56493	0.498837	0.873658
AE003852	1206250	60.282	25.764	23.676	26.168	19.6	0.534019	-0.4185	-1.1865	-0.80469	-0.72033
AE003852	1206750	69.692	20.514	33.452	21.6	20.166	1.435061	-1.14483	0.092242	-1.43561	-0.62644
AE003852	1207250	59.55	24.396	37.832	25.558	21.852	0.466395	-0.60612	0.665752	-0.88707	-0.34942
AE003852	1207750	53.338	25.88	33.164	39.846	35.502	-0.12645	-0.3996	0.056733	1.090507	1.883978
AE003852	1208250	58.494	27.648	31.072	33.87	27.702	0.367789	-0.15374	-0.21562	0.264801	0.609842
AE003852	1208750	54.888	27.796	27.66	27.358	22.956	0.024144	-0.1323	-0.66048	-0.63505	-0.1649
AE003852	1209250	61.93	33.558	30.734	26.188	18.792	0.698741	0.666849	-0.25766	-0.79591	-0.84447
AE003852	1209750	59.68	57.402	36.662	24.484	27.72	0.484767	3.97088	0.518166	-1.03063	0.616774
AE003852	1210250	83.188	45.888	35.448	40.924	28.232	2.733966	2.376797	0.360568	1.244648	0.701826
AE003852	1210750	62.554	28.74	34.424	46.56	24.556	0.761976	0.00224	0.227802	2.025323	0.102052
AE003852	1211250	54.718	20.356	41.276	47.782	25.322	0.013827	-1.15825	1.124389	2.195375	0.228639
AE003852	1211750	47.692	29.448	46.112	50.72	28.168	-0.65686	0.102202	1.757496	2.602815	0.69535
AE003852	1212250	47.544	42.162	35.088	28.172	25.874	-0.66983	1.864404	0.31778	-0.51543	0.321562
AE003852	1212750	65.768	33.414	37.09	37.83	25.206	1.074075	0.653492	0.580496	0.821641	0.213659
AE003852	1213250	61.996	31.21	32.198	43.116	31.468	0.714556	0.349116	-0.0578	1.553899	1.238959
AE003852	1213750	54.256	40.374	33.21	38.38	20.652	-0.02441	1.619539	0.075531	0.899732	-0.52836
AE003852	1214250	46.276	37.32	42.446	30.8	27.074	-0.78633	1.197412	1.283695	-0.14787	0.523106
AE003852	1214750	38.966	28.724	33.798	35.328	26.78	-1.48418	0.007557	0.15451	0.479529	0.47636
AE003852	1215250	47.282	31.082	35.658	24.572	19.506	-0.68775	0.33515	0.398668	-1.00743	-0.71176
AE003852	1215750	39.508	32.676	41.452	21.808	18.346	-1.42998	0.556908	1.156981	-1.3888	-0.90012
AE003852	1216250	47.602	22.132	41.898	22.282	20.984	-0.65478	-0.9028	1.216336	-1.32222	-0.46742
AE003852	1216750	49.624	29	34.808	21.502	10.002	-0.46023	0.049558	0.290774	-1.42912	-2.26188
AE003852	1217250	54.106	13.322	26.32	26.734	11.508	-0.03044	-2.12136	-0.8175	-0.70434	-2.01429
AE003852	1217750	53.162	22.566	28.226	34.11	9.556	-0.11953	-0.83986	-0.56733	0.317048	-2.33215
AE003852	1218250	42.69	24.192	31.898	33.144	13.356	-1.11975	-0.61367	-0.08635	0.184415	-1.70944
AE003852	1218750	48.84	25.15	37.748	28.204	18.098	-0.53045	-0.48001	0.679279	-0.49797	-0.93269

AE003852	1219250	59.958	20.296	28.794	26.194	27.958	0.533923	-1.15149	-0.4899	-0.77503	0.680954
AE003852	1219750	54	28.028	28.192	33.152	28.122	-0.03464	-0.07944	-0.56751	0.188529	0.709101
AE003852	1220250	50.502	22.728	26.874	26.29	17.002	-0.36795	-0.81271	-0.7387	-0.75974	-1.10793
AE003852	1220750	49.014	22.336	38.456	27.478	22.798	-0.50906	-0.86607	0.776073	-0.5944	-0.15883
AE003852	1221250	48.186	27.034	31.976	33.158	34.136	-0.58705	-0.21432	-0.06977	0.192366	1.696507
AE003852	1221750	50.188	21.394	30.282	27.766	28.098	-0.39442	-0.99468	-0.2901	-0.55255	0.710495
AE003852	1222250	61.724	33.028	31.796	32.524	24.064	0.709929	0.617912	-0.09116	0.106665	0.05218
AE003852	1222750	53.256	22.652	27.888	35.788	25.996	-0.09866	-0.81853	-0.60085	0.559203	0.369433
AE003852	1223250	57.524	21.214	32.704	28.17	26.634	0.31067	-1.01679	0.029643	-0.49365	0.475089
AE003852	1223750	80.652	32.192	39.188	26.728	30.39	2.523531	0.504926	0.878135	-0.69214	1.090604
AE003852	1224250	71.988	33.188	40.572	22.154	16.84	1.696202	0.643843	1.060082	-1.32389	-1.12378
AE003852	1224750	70.342	42.658	33.826	33.044	18.866	1.539987	1.956656	0.179479	0.183612	-0.79116
AE003852	1225250	49.572	36.122	30.084	24.154	18.916	-0.44501	1.052171	-0.30852	-1.04521	-0.78165
AE003852	1225750	42.366	24.778	30.864	24.434	20.146	-1.13291	-0.51836	-0.20551	-1.00547	-0.57919
AE003852	1226250	63.06	30.5	35.786	25.804	20.01	0.847192	0.275243	0.438838	-0.81495	-0.6001
AE003852	1226750	64.928	31.986	32.09	24.802	26.754	1.027012	0.482039	-0.04315	-0.95256	0.504019
AE003852	1227250	70.024	30.866	34.508	25.566	31.196	1.515518	0.327828	0.27394	-0.84587	1.23171
AE003852	1227750	48.59	29.244	26.434	25.522	19.286	-0.53297	0.104076	-0.78023	-0.85095	-0.7145
AE003852	1228250	50.276	23.75	32.424	36.474	32.544	-0.37056	-0.65606	0.003703	0.665129	1.454796
AE003852	1228750	51.174	25.52	37.27	27.664	29.602	-0.2835	-0.40992	0.638116	-0.55263	0.975046
AE003852	1229250	47.582	22.992	34.784	31.448	22.668	-0.6258	-0.75918	0.314274	-0.02815	-0.15748
AE003852	1229750	53.082	23.218	35.846	28.108	28.102	-0.09866	-0.72693	0.454137	-0.4892	0.732423
AE003852	1230250	45.966	22.686	23.448	29.542	20.396	-0.77796	-0.79969	-1.16515	-0.28982	-0.52634
AE003852	1230750	50.504	25.916	46.522	29.832	19.292	-0.34282	-0.3513	1.851569	-0.2487	-0.70554
AE003852	1231250	46.778	24.434	31.748	25.132	29.176	-0.69794	-0.55566	-0.07825	-0.89789	0.912034
AE003852	1231750	46.768	31.416	15.558	29.544	34.64	-0.6977	0.412494	-2.19314	-0.28654	1.806843
AE003852	1232250	54.286	34.734	25.802	21.962	28.442	0.022412	0.873076	-0.85324	-1.33441	0.794668
AE003852	1232750	56.58	31.12	21.736	38.864	25.096	0.242969	0.373373	-1.38358	1.004778	0.248856
AE003852	1233250	44.634	33.256	29.218	33.686	26.482	-0.89821	0.670213	-0.40465	0.289466	0.476826
AE003852	1233750	41.654	29.968	24.162	22.874	21.502	-1.18199	0.215671	-1.06438	-1.20524	-0.33618
AE003852	1234250	41.824	30.364	26.694	21.67	16.916	-1.16455	0.27147	-0.73239	-1.3708	-1.08476
AE003852	1234750	43.558	36.374	30.64	27.528	20.112	-0.99754	1.104972	-0.21561	-0.55941	-0.56082
AE003852	1235250	43.566	35.804	36.49	40.022	16.904	-0.99559	1.026952	0.550025	1.169986	-1.08406
AE003852	1235750	51.688	29.692	32.846	21.318	24.348	-0.21771	0.181203	0.074838	-1.41649	0.134519
AE003852	1236250	45.256	25.574	30.378	19.146	22.1	-0.8316	-0.38832	-0.24665	-1.71596	-0.23175
AE003852	1236750	49.2	24.728	27.89	18.566	22.378	-0.45326	-0.50457	-0.57076	-1.79519	-0.18496
AE003852	1237250	52.81	31.36	28.852	31.918	21.322	-0.10685	0.415095	-0.44396	0.052903	-0.35631

AE003852	1237750	42.29	26.998	18.526	31.884	20.678	-1.11167	-0.18823	-1.79245	0.049202	-0.46029
AE003852	1238250	45.612	24.766	26.024	33.6	21.418	-0.7928	-0.49648	-0.81144	0.287593	-0.33795
AE003852	1238750	55.836	29.782	29.82	26.548	24.928	0.186079	0.199321	-0.31425	-0.68697	0.237339
AE003852	1239250	62.142	26.16	36.198	26.596	27.572	0.790294	-0.30149	0.520386	-0.67932	0.671019
AE003852	1239750	69.69	29.944	32.43	36.83	23.312	1.513278	0.223646	0.028992	0.737432	-0.02425
AE003852	1240250	56.302	26.704	24.022	44.164	22.252	0.234205	-0.22425	-1.06883	1.753006	-0.19625
AE003852	1240750	42.922	30.962	17.716	31.876	21.002	-1.0441	0.366552	-1.89192	0.05411	-0.39933
AE003852	1241250	56.73	29.036	26.758	36.586	30.212	0.27751	0.100687	-0.70911	0.706685	1.108034
AE003852	1241750	56.53	26.802	27.852	31.148	29.438	0.259572	-0.20785	-0.56507	-0.0446	0.982798
AE003852	1242250	62.046	18.17	26.38	36.844	22.786	0.788241	-1.40269	-0.75639	0.744381	-0.10362
AE003852	1242750	63.5	20.632	37.642	32.184	23.54	0.928472	-1.06069	0.716568	0.100727	0.021009
AE003852	1243250	55.598	27.768	19.602	33.178	23.288	0.174011	-0.0712	-1.64011	0.239238	-0.01887
AE003852	1243750	58.124	30.392	35.352	32.188	26.504	0.416754	0.29324	0.419407	0.103286	0.508345
AE003852	1244250	54.758	27.88	47.584	35.468	22.062	0.09606	-0.0538	2.019134	0.558037	-0.21669
AE003852	1244750	53.146	20.65	36.528	33.528	25.278	-0.0569	-1.05443	0.575235	0.290663	0.310527
AE003852	1245250	59.716	26.5	39.128	28.104	27.338	0.572557	-0.24309	0.916108	-0.45868	0.64871
AE003852	1245750	59.034	27.428	35.798	31.21	19.074	0.508527	-0.11359	0.481959	-0.028	-0.7013
AE003852	1246250	55.554	23.868	29.496	31.814	31.928	0.176932	-0.60582	-0.34062	0.056559	1.401932
AE003852	1246750	44.406	30.618	26.7	40.896	20.728	-0.88794	0.330198	-0.70497	1.313948	-0.42818
AE003852	1247250	44.468	27.088	25.676	42.71	21.914	-0.88082	-0.15787	-0.83774	1.565896	-0.23291
AE003852	1247750	47.79	20.69	30.098	36.586	18.924	-0.56196	-1.04324	-0.25874	0.719716	-0.72051
AE003852	1248250	59.696	26.294	26.126	33.59	13.06	0.577773	-0.26598	-0.7768	0.306257	-1.67807
AE003852	1248750	48.144	24.402	35.404	25.794	14.036	-0.52573	-0.52713	0.436858	-0.77122	-1.51714
AE003852	1249250	54.182	21.902	28.526	36.842	17.71	0.052859	-0.87251	-0.461	0.758137	-0.91504
AE003852	1249750	49.502	25.266	31.746	30.158	26.778	-0.39349	-0.40556	-0.03909	-0.16551	0.569105
AE003852	1250250	43.362	30.602	28.088	27.31	25.23	-0.97945	0.334573	-0.51611	-0.5585	0.317304
AE003852	1250750	52.94	19.532	28.778	24.6	22.826	-0.06235	-1.198	-0.42487	-0.93239	-0.07447
AE003852	1251250	44.19	18.14	39.576	32.682	23.096	-0.8979	-1.38989	0.987445	0.18666	-0.02899
AE003852	1251750	44.392	24.144	26.382	38.318	20.04	-0.87739	-0.55722	-0.73588	0.967336	-0.52738
AE003852	1252250	49.56	23.822	30.074	38.868	14.796	-0.382	-0.60089	-0.25229	1.044424	-1.38356
AE003852	1252750	49.062	23.376	27.47	31.312	18.022	-0.42844	-0.66173	-0.59155	0.000144	-0.85471
AE003852	1253250	40.91	34.074	23.424	28.32	22.494	-1.20681	0.821197	-1.11928	-0.41276	-0.12211
AE003852	1253750	41.006	23.112	22.37	29.486	31.746	-1.19644	-0.69642	-1.25597	-0.25046	1.392115
AE003852	1254250	48.856	21.932	34.65	24.828	24.776	-0.44457	-0.85894	0.350034	-0.89383	0.253702
AE003852	1254750	46.506	27.466	38.902	22.722	29.148	-0.66811	-0.09138	0.906814	-1.18417	0.969946
AE003852	1255250	45.674	34.448	42.62	21.836	25.856	-0.74648	0.876773	1.393804	-1.30574	0.432964
AE003852	1255750	51.76	29.326	32.732	25.198	22.066	-0.16331	0.168168	0.102557	-0.83964	-0.18545

AE003852	1256250	51.286	28.734	32.032	44.034	24.88	-0.20745	0.087101	0.012136	1.767098	0.276026
AE003852	1256750	55.864	32.98	40.45	47.518	20.77	0.231524	0.676237	1.113392	2.25007	-0.39472
AE003852	1257250	47.946	40.748	38.73	38.514	22.338	-0.52447	1.753274	0.889662	1.005477	-0.13699
AE003852	1257750	41.284	23.026	28.28	32.96	22.856	-1.16035	-0.7008	-0.47504	0.238149	-0.05095
AE003852	1258250	52.148	24.45	24.374	42.042	26.146	-0.12026	-0.50259	-0.98446	1.495538	0.488363
AE003852	1258750	55.162	32.424	25.06	38.85	32.202	0.169146	0.602982	-0.89374	1.054965	1.479977
AE003852	1259250	59.65	34.336	30.954	44.924	25.056	0.59951	0.868791	-0.12236	1.896233	0.312784
AE003852	1259750	52.79	36.546	28.894	27.014	20.79	-0.05531	1.175882	-0.39053	-0.5804	-0.38347
AE003852	1260250	51.336	28.596	31.516	31.52	23.148	-0.19316	0.075517	-0.04678	0.043954	0.003444
AE003852	1260750	40.38	21.454	34.126	30.254	27.176	-1.23967	-0.91292	0.295401	-0.13018	0.663438
AE003852	1261250	45.834	28.176	38.548	28.48	22.244	-0.71693	0.019218	0.874399	-0.37459	-0.14172
AE003852	1261750	39.452	29.194	20.152	38.39	23.496	-1.32603	0.161183	-1.5288	0.997344	0.064339
AE003852	1262250	45.964	20.888	22.116	33.242	20.106	-0.70212	-0.9885	-1.27105	0.286182	-0.48867
AE003852	1262750	53.858	29.958	21.748	28.998	25.876	0.053951	0.268902	-1.31808	-0.29992	0.456178
AE003852	1263250	43.134	33.506	30.37	20.148	26.794	-0.97037	0.761345	-0.19016	-1.52321	0.60762
AE003852	1263750	48.41	29.586	38.512	18.114	27.478	-0.46465	0.219253	0.875022	-1.80359	0.720799
AE003852	1264250	65.402	31.78	31.302	26.348	15.666	1.161439	0.524127	-0.06622	-0.66351	-1.20938
AE003852	1264750	62.278	28.496	28.068	27.354	18.296	0.863887	0.070139	-0.48783	-0.52334	-0.77799
AE003852	1265250	43.504	30.97	33.552	24.5	18.756	-0.93024	0.413802	0.229971	-0.91716	-0.70144
AE003852	1265750	52.926	24.212	31.702	28.606	14.556	-0.02805	-0.52144	-0.01075	-0.34814	-1.3869
AE003852	1266250	59.144	20.934	35.642	32.844	17.826	0.567754	-0.97459	0.505254	0.239143	-0.85086
AE003852	1266750	54.36	26.518	33.036	29.29	19.926	0.11146	-0.2001	0.165728	-0.25151	-0.50614
AE003852	1267250	47.696	26.994	24.976	19.31	26.72	-0.52461	-0.13322	-0.88661	-1.63112	0.606157
AE003852	1267750	44.266	27.178	17.032	26.868	20.33	-0.85143	-0.10679	-1.92378	-0.58456	-0.43741
AE003852	1268250	44.48	18.39	18.212	35.032	24.404	-0.82978	-1.32325	-1.7685	0.545836	0.230101
AE003852	1268750	52.174	23.396	30.548	33.408	22.128	-0.09283	-0.62883	-0.15518	0.322177	-0.14074
AE003852	1269250	46.29	23.068	34.04	32.5	36.134	-0.65431	-0.67332	0.302274	0.197569	2.150864
AE003852	1269750	57.768	25.272	39.384	27.068	38.878	0.444487	-0.36706	1.001773	-0.55288	2.600896
AE003852	1270250	62.262	32.13	33.612	22.622	29.272	0.875425	0.583913	0.248467	-1.16693	1.031441
AE003852	1270750	47.698	22.4	23.52	30.608	23.804	-0.51611	-0.76303	-1.06944	-0.06116	0.138636
AE003852	1271250	56.032	20.828	24.26	21.558	26.062	0.282041	-0.97986	-0.97166	-1.31212	0.509197
AE003852	1271750	57.958	28.442	17.938	18	25.118	0.467408	0.075842	-1.79685	-1.80332	0.356162
AE003852	1272250	55.608	29.508	20.646	22.624	16.628	0.243871	0.224456	-1.44186	-1.16264	-1.0308
AE003852	1272750	63.14	22.566	32.326	28.112	20.166	0.965326	-0.73627	0.08572	-0.40244	-0.45094
AE003852	1273250	42.65	25.332	35.81	32.628	26.038	-0.99289	-0.35216	0.542127	0.223295	0.51059
AE003852	1273750	58.878	29.148	26.886	39.718	28.16	0.560137	0.17741	-0.62313	1.205114	0.858912
AE003852	1274250	43.53	27.192	23.886	32.18	25.41	-0.90637	-0.09261	-1.01415	0.163324	0.410558

AE003852	1274750	44.188	24.162	39.1	29.85	14.324	-0.84225	-0.51141	0.97531	-0.158	-1.40091
AE003852	1275250	48.844	22.056	39.682	28.914	12.946	-0.39583	-0.80221	1.05244	-0.28648	-1.62491
AE003852	1275750	58.608	24.88	36.162	24.518	17.936	0.53907	-0.41007	0.593459	-0.89362	-0.80761
AE003852	1276250	60.998	28.818	41.854	38.188	18.65	0.768808	0.136404	1.338441	0.998469	-0.68953
AE003852	1276750	51.128	37.022	19.95	27.936	30.912	-0.17385	1.273839	-1.52324	-0.41877	1.3169
AE003852	1277250	40.682	23.96	22.24	18.954	32.178	-1.17158	-0.53469	-1.22288	-1.66032	1.525248
AE003852	1277750	50.064	28.188	23.688	29.958	38.056	-0.27322	0.051956	-1.03257	-0.13705	2.487755
AE003852	1278250	42.678	34.186	26.1	32.026	31.66	-0.97834	0.883795	-0.71627	0.150039	1.443203
AE003852	1278750	38.944	19.906	16.392	39.044	25.218	-1.33422	-1.09346	-1.98399	1.121898	0.391129
AE003852	1279250	49.462	23.566	22.44	38.914	18.25	-0.32722	-0.5855	-1.19248	1.104917	-0.74696
AE003852	1279750	36.918	29.49	27.16	41.558	17.824	-1.52559	0.236087	-0.57453	1.471685	-0.81529
AE003852	1280250	46.872	21.292	28.292	29.212	27.802	-0.57252	-0.89863	-0.42552	-0.23523	0.817656
AE003852	1280750	37.656	31.642	30.59	34.524	21.174	-1.45264	0.536085	-0.12412	0.50062	-0.26483
AE003852	1281250	42.834	40.008	23.972	26.606	25.584	-0.95629	1.695962	-0.98799	-0.59374	0.457625
AE003852	1281750	44.842	23.546	21.134	25.488	25.922	-0.76308	-0.58356	-1.35784	-0.7474	0.514225
AE003852	1282250	53.374	24.298	25.69	32.332	26.948	0.053999	-0.47845	-0.76133	0.20039	0.683328
AE003852	1282750	57.392	17.528	32.804	35.642	21.24	0.439419	-1.41535	0.169502	0.659291	-0.24872
AE003852	1283250	54.852	19.878	35.744	35.042	23.362	0.197713	-1.08886	0.554811	0.577291	0.0996
AE003852	1283750	49.956	17.162	33.428	43.864	31.086	-0.26929	-1.46417	0.253187	1.798712	1.363967
AE003852	1284250	58.53	22.474	32.954	34.118	25.494	0.551807	-0.72736	0.192303	0.451471	0.450886
AE003852	1284750	58.392	28.244	32.494	18.712	22.654	0.539798	0.072897	0.133248	-1.67876	-0.01218
AE003852	1285250	71.416	25.552	32.434	21.47	18.514	1.786439	-0.29908	0.126472	-1.29622	-0.68783
AE003852	1285750	66.422	27.43	31.896	24.332	20.216	1.310063	-0.03798	0.057224	-0.8993	-0.40819
AE003852	1286250	46.55	30.8	27.958	23.906	18.784	-0.58906	0.429802	-0.45639	-0.95723	-0.64102
AE003852	1286750	38.79	26.738	28.558	16.154	19.654	-1.32994	-0.13196	-0.37691	-2.02862	-0.49743
AE003852	1287250	51.392	41.36	23.084	22.866	17.694	-0.12365	1.894554	-1.09126	-1.09909	-0.8166
AE003852	1287750	59.852	35.624	30.848	36.914	21.308	0.686542	1.100892	-0.07548	0.845281	-0.22431
AE003852	1288250	65.684	35.934	28.928	44.564	21.442	1.24543	1.144778	-0.32535	1.90457	-0.20107
AE003852	1288750	47.418	34.852	28.428	38.542	21.262	-0.50011	0.995831	-0.38963	1.0725	-0.22917
AE003852	1289250	40.418	22.88	29.942	26.866	19.152	-1.16832	-0.6617	-0.1907	-0.54173	-0.57287
AE003852	1289750	39.098	29.556	28.256	31.06	20.468	-1.29336	0.264063	-0.40998	0.039459	-0.35635
AE003852	1290250	46.558	28.064	20.982	25.884	22.12	-0.57879	0.05832	-1.35959	-0.67558	-0.08488
AE003852	1290750	46.384	36.546	30.008	27.58	27.182	-0.59424	1.234266	-0.17887	-0.43995	0.744195
AE003852	1291250	51.6	33.456	27.16	35.764	25.43	-0.09426	0.807152	-0.55003	0.693209	0.459035
AE003852	1291750	48.648	32.796	24.688	28.364	25.462	-0.37536	0.716665	-0.87204	-0.32949	0.465597
AE003852	1292250	52.776	41.52	33.046	29.42	15.578	0.020574	1.926135	0.221374	-0.1824	-1.14932
AE003852	1292750	59.57	34.798	30.348	30.406	27.178	0.671455	0.995883	-0.13018	-0.045	0.748859

AE003852	1293250	48.564	19.086	29.552	17.684	15.428	-0.37983	-1.17975	-0.23314	-1.80393	-1.17119
AE003852	1293750	39.942	25.838	21	32.93	12.664	-1.20315	-0.24345	-1.34978	0.306171	-1.62183
AE003852	1294250	51.43	20.218	27.92	35.544	20.634	-0.10339	-1.02105	-0.44431	0.668789	-0.31724
AE003852	1294750	57.432	29.092	26.622	39.98	31.134	0.471756	0.209203	-0.61288	1.283459	1.401068
AE003852	1295250	54.242	27.03	25.464	34.662	28.77	0.167892	-0.0755	-0.76316	0.548779	1.015833
AE003852	1295750	42.714	27.45	19.29	27.754	24.976	-0.93331	-0.01638	-1.56901	-0.40586	0.396763
AE003852	1296250	49.29	20.6	25.044	24.816	24.232	-0.30328	-0.96436	-0.81592	-0.81129	0.276433
AE003852	1296750	59.792	18.466	29.522	27.546	20.306	0.702189	-1.25904	-0.22961	-0.43263	-0.36422
AE003852	1297250	63.3	30.62	30.226	36.392	24.614	1.038838	0.425584	-0.13653	0.792114	0.341557
AE003852	1297750	62.18	21.598	27.706	35.834	25.338	0.932923	-0.82329	-0.46482	0.715923	0.461276
AE003852	1298250	61.572	27.512	35.404	34.512	15.738	0.87597	-0.00308	0.542338	0.534043	-1.1072
AE003852	1298750	61.402	26.836	34.612	28.364	19.564	0.860901	-0.09579	0.439893	-0.31546	-0.48024
AE003852	1299250	52.232	18.928	43.052	29.424	26.402	-0.01482	-1.19033	1.544025	-0.16782	0.639251
AE003852	1299750	47.758	20.578	31.6	27.92	20.91	-0.44146	-0.96082	0.048371	-0.37487	-0.25748
AE003852	1300250	43.064	18.074	27.266	31.58	20.096	-0.88915	-1.30675	-0.517	0.132445	-0.38925
AE003852	1300750	43.724	16.31	25.51	38.854	26.906	-0.82485	-1.55018	-0.74543	1.139719	0.725655
AE003852	1301250	45.14	24.766	26.586	32.928	33.828	-0.68825	-0.37783	-0.60374	0.32093	1.858879
AE003852	1301750	47.186	26.07	25.366	27.372	29.046	-0.49141	-0.19625	-0.76212	-0.44667	1.07825
AE003852	1302250	53.49	19.692	34.992	30.864	20.224	0.112612	-1.07885	0.497016	0.037405	-0.36301
AE003852	1302750	50.252	22.244	36.004	41.716	22.532	-0.19584	-0.72438	0.630344	1.539652	0.015731
AE003852	1303250	52.764	14.17	27.436	35.97	18.54	0.045563	-1.84192	-0.48839	0.745764	-0.63572
AE003852	1303750	55.404	21.474	29.188	34.728	21.228	0.299207	-0.82916	-0.25834	0.57495	-0.19484
AE003852	1304250	46.888	18.742	23.772	26.37	21.816	-0.51397	-1.20668	-0.96512	-0.58028	-0.09736
AE003852	1304750	47.12	28.976	39.09	27.262	23.764	-0.49059	0.211967	1.037931	-0.45588	0.222508
AE003852	1305250	45.702	33.12	39.798	31.068	28.376	-0.62501	0.786973	1.131529	0.07164	0.977998
AE003852	1305750	50.676	32.174	24.552	31.894	25.164	-0.14817	0.656866	-0.85998	0.18691	0.454097
AE003852	1306250	59.068	23.226	25.746	30.562	23.606	0.655526	-0.58175	-0.70287	0.003646	0.20066
AE003852	1306750	50.948	20.692	22	36.006	20.532	-0.11978	-0.93184	-1.19139	0.75776	-0.30067
AE003852	1307250	53.212	21.826	25.834	33.262	28.218	0.097908	-0.77381	-0.68923	0.379163	0.95748
AE003852	1307750	57.282	18.412	24.434	32.43	23.156	0.4883	-1.24581	-0.87114	0.265068	0.131065
AE003852	1308250	51.046	22.984	20.438	24.248	23.018	-0.10685	-0.61151	-1.39233	-0.86581	0.109828
AE003852	1308750	43.492	22.306	22.408	21.698	26.126	-0.82803	-0.70449	-1.1338	-1.21757	0.619382
AE003852	1309250	45.704	21.91	35.276	31.58	27.876	-0.61531	-0.75841	0.549049	0.150488	0.906874
AE003852	1309750	49.602	29.19	33.57	31.62	18.81	-0.24137	0.251029	0.327149	0.157024	-0.57428
AE003852	1310250	55.008	24.544	29.612	39.226	18.282	0.276783	-0.39164	-0.18908	1.210226	-0.65929
AE003852	1310750	48.148	22.64	37.584	35.058	24.636	-0.37803	-0.65445	0.85389	0.634635	0.381054
AE003852	1311250	45.682	17.512	35.96	29.042	31.72	-0.61266	-1.36389	0.642707	-0.1966	1.540768

AE003852	1311750	39.492	23.848	30.328	27.312	26.16	-1.20341	-0.48523	-0.0923	-0.43493	0.632919
AE003852	1312250	35.636	32.344	29.286	27.156	19.616	-1.57096	0.692658	-0.22742	-0.45551	-0.43583
AE003852	1312750	38.752	22.316	24.398	31.164	17.576	-1.2718	-0.69557	-0.86519	0.099956	-0.76809
AE003852	1313250	45.8	18.452	24.846	36.384	21.74	-0.59663	-1.22991	-0.80558	0.823083	-0.08586
AE003852	1313750	34.976	18.216	22.534	35.29	22.382	-1.63051	-1.26166	-1.10668	0.672744	0.020454
AE003852	1314250	40.478	26.862	20.442	34.182	24.75	-1.10318	-0.06299	-1.37903	0.520468	0.409002
AE003852	1314750	53.228	28.646	33.61	34.424	19.602	0.117258	0.185085	0.343032	0.554948	-0.43148
AE003852	1315250	56.572	23.744	37.592	32.558	24.356	0.438224	-0.49304	0.864525	0.297811	0.347234
AE003852	1315750	57.534	29.714	33.504	26.902	25.218	0.531406	0.334918	0.331309	-0.48363	0.489519
AE003852	1316250	46.338	31.056	22.83	26.808	22.906	-0.53805	0.521766	-1.06266	-0.49563	0.112788
AE003852	1316750	42.296	28.804	27.01	21.96	28.278	-0.92339	0.21074	-0.51529	-1.16529	0.992553
AE003852	1317250	44.874	27.12	34.174	33.928	25.274	-0.67567	-0.0216	0.422071	0.491344	0.502665
AE003852	1317750	52.35	32.04	36.496	40.614	27.59	0.040425	0.660903	0.72661	1.417275	0.88271
AE003852	1318250	43.642	30.898	28.462	27.818	17.308	-0.79111	0.503645	-0.32233	-0.3519	-0.79729
AE003852	1318750	54.096	29.994	22.534	23.714	21.364	0.209766	0.379356	-1.09602	-0.91863	-0.13271
AE003852	1319250	48.168	28.36	21.01	34.404	19.46	-0.35593	0.153941	-1.29414	0.561202	-0.44273
AE003852	1319750	40.96	28.568	35.92	31.82	19.944	-1.04402	0.183697	0.655592	0.204739	-0.36226
AE003852	1320250	44.754	32.08	41.37	30.952	21.41	-0.68002	0.671153	1.368945	0.085664	-0.1212
AE003852	1320750	58.46	27.712	38.56	34.15	15.114	0.631837	0.066999	1.002757	0.529072	-1.1494
AE003852	1321250	47.028	28.436	33.482	38.448	15.432	-0.46019	0.168236	0.340154	1.124651	-1.09607
AE003852	1321750	49.222	24.35	41.32	32.582	27.028	-0.24919	-0.39685	1.365607	0.314162	0.801448
AE003852	1322250	47.012	25.43	29.78	32.458	23.51	-0.45934	-0.2463	-0.14155	0.298011	0.22751
AE003852	1322750	45.81	28.492	34.564	30.074	24.152	-0.5731	0.178819	0.484762	-0.03078	0.33382
AE003852	1323250	38.798	26.678	27.246	24.314	18.86	-1.24245	-0.07153	-0.4706	-0.82661	-0.53021
AE003852	1323750	48.894	27.718	27.868	35.396	25.038	-0.27581	0.07348	-0.38824	0.707455	0.481359
AE003852	1324250	54.14	31.434	23.472	37.052	24.996	0.227042	0.589196	-0.96171	0.937545	0.475821
AE003852	1324750	52.166	28.674	20.198	31.832	16.968	0.039461	0.207798	-1.38854	0.216423	-0.8356
AE003852	1325250	68.626	22.354	23.18	35.67	19.324	1.614678	-0.66677	-0.99774	0.748367	-0.44901
AE003852	1325750	68.446	34.848	22.326	46.29	21.006	1.598653	1.06496	-1.10829	2.21852	-0.17264
AE003852	1326250	51.158	25.226	26.502	30.496	16.648	-0.05337	-0.26703	-0.56144	0.034611	-0.88394
AE003852	1326750	49.972	24.666	30.258	32.892	27.974	-0.16559	-0.34366	-0.06949	0.367071	0.969435
AE003852	1327250	45.556	26.976	29.724	30.978	23.412	-0.5867	-0.02272	-0.13821	0.103294	0.22478
AE003852	1327750	45.834	25.42	30.392	34.618	26.524	-0.55892	-0.23733	-0.04984	0.607847	0.734988
AE003852	1328250	40.1	37.844	30.896	21.604	24.84	-1.10606	1.484702	0.017093	-1.19148	0.460948
AE003852	1328750	43.47	32.15	29.08	22.62	21.638	-0.78261	0.696858	-0.21918	-1.04993	-0.06132
AE003852	1329250	47.964	30.228	29.168	20.834	14.338	-0.35167	0.431547	-0.20662	-1.296	-1.25369
AE003852	1329750	49.894	39.714	34.422	32.306	14.056	-0.16592	1.746576	0.48112	0.292019	-1.29848

AE003852	1330250	55.958	29.274	26.568	32.416	20.304	0.415149	0.301273	-0.54429	0.308239	-0.27547
AE003852	1330750	34.672	23.806	32.482	36.756	22.068	-1.61919	-0.45526	0.229702	0.909628	0.014315
AE003852	1331250	46.448	28.57	42.782	27.136	22.49	-0.49189	0.205632	1.576927	-0.42018	0.084651
AE003852	1331750	60.684	29.356	41.56	34.384	16.384	0.870648	0.315458	1.418283	0.583495	-0.91248
AE003852	1332250	71.428	38.68	40.75	29.488	20.008	1.899258	1.608046	1.313485	-0.09281	-0.31855
AE003852	1332750	51.228	25.77	34.528	23.93	14.728	-0.03123	-0.17942	0.501366	-0.86069	-1.18061
AE003852	1333250	50.842	38.01	25.762	32.982	19.314	-0.06695	1.517114	-0.64324	0.392552	-0.42937
AE003852	1333750	60.438	29.162	26.698	44.138	21.858	0.851876	0.29235	-0.51985	1.936854	-0.01205
AE003852	1334250	39.936	19.84	17.822	40.16	22.096	-1.10749	-0.99808	-1.67883	1.387548	0.028201
AE003852	1334750	37.944	37.984	21.75	25.826	14.654	-1.29679	1.516338	-1.16439	-0.59439	-1.18739
AE003852	1335250	44.84	36.602	30.528	27.504	22.078	-0.63616	1.325832	-0.01609	-0.36125	0.027917
AE003852	1335750	46.812	37.41	29.746	30.942	24.848	-0.44639	1.438705	-0.11722	0.115355	0.4822
AE003852	1336250	44.32	33.202	19.244	35.766	17.124	-0.68351	0.856716	-1.48872	0.7837	-0.77951
AE003852	1336750	53.744	28.93	23.14	20.26	23.712	0.218873	0.265861	-0.97847	-1.36037	0.299099
AE003852	1337250	58.922	27.608	37.64	24.534	28.396	0.715221	0.083667	0.917678	-0.76811	1.066362
AE003852	1337750	48.02	29.142	42.626	41.432	18.256	-0.32612	0.297113	1.570389	1.570531	-0.59041
AE003852	1338250	51.908	21.358	34.548	39.146	23.466	0.046865	-0.78026	0.5157	1.255292	0.262862
AE003852	1338750	49.42	27.35	20.172	32.638	23.716	-0.18987	0.050752	-1.36211	0.35599	0.305072
AE003852	1339250	47.192	28.428	17.632	33.04	14.882	-0.40174	0.201028	-1.69301	0.412605	-1.13815
AE003852	1339750	47.684	27.842	28.27	24.136	20.744	-0.3535	0.120791	-0.30161	-0.81816	-0.17825
AE003852	1340250	54.132	31.228	25.224	24.464	24.11	0.264293	0.590793	-0.69864	-0.77178	0.373488
AE003852	1340750	59.782	28.332	23.548	20.154	29.874	0.805776	0.190554	-0.91662	-1.36701	1.317354
AE003852	1341250	59.228	23.39	24.794	24.896	23.596	0.753987	-0.49312	-0.75271	-0.71001	0.292097
AE003852	1341750	49.472	23.364	24.24	30.148	21.678	-0.17777	-0.49578	-0.82405	0.017543	-0.02021
AE003852	1342250	42.396	21.982	18.972	26.642	25.374	-0.85324	-0.68628	-1.51148	-0.46647	0.585497
AE003852	1342750	40.09	18.144	20.382	19.356	27.396	-1.07257	-1.21701	-1.32614	-1.4734	0.917467
AE003852	1343250	45.97	24.604	27.022	23.79	27.598	-0.50909	-0.32117	-0.45726	-0.859	0.951828
AE003852	1343750	56.928	31.586	32.69	34.036	30.75	0.539983	0.646978	0.284589	0.559411	1.468576
AE003852	1344250	59.89	36.052	26.02	29.018	27.238	0.82442	1.266591	-0.58608	-0.13377	0.895619
AE003852	1344750	49.172	41.224	36.872	30.76	21.548	-0.19933	1.984006	0.833286	0.10822	-0.03349
AE003852	1345250	45.862	33.084	33.992	34.296	20.772	-0.51467	0.85732	0.45795	0.598386	-0.15905
AE003852	1345750	51.45	26.592	34.948	28.864	25.982	0.020888	-0.04107	0.58396	-0.15206	0.694225
AE003852	1346250	52.59	20.882	37.718	27.478	24.558	0.131091	-0.83113	0.947051	-0.3428	0.462701
AE003852	1346750	44.468	23.118	25.05	27.028	24.388	-0.64441	-0.52044	-0.70753	-0.40405	0.436232
AE003852	1347250	52.33	27.656	27.136	31.8	19.522	0.108604	0.10915	-0.43383	0.257103	-0.35813
AE003852	1347750	58.932	28.616	31.276	40.958	24.6	0.741125	0.24308	0.10831	1.525006	0.473557
AE003852	1348250	44.654	35.874	42.908	44.242	26.924	-0.62306	1.249466	1.62962	1.980311	0.85491

AE003852	1348750	60.204	26.85	41.742	32.468	21.662	0.865139	0.00032	1.478295	0.35252	-0.00421
AE003852	1349250	43.306	20.6	32.694	30.466	18.454	-0.74959	-0.86455	0.296832	0.07657	-0.52746
AE003852	1349750	41.988	32.624	20.674	25.806	32.394	-0.87444	0.802071	-1.27306	-0.56708	1.75336
AE003852	1350250	43.508	29.704	15.306	32.064	23.81	-0.72789	0.398508	-1.97356	0.299639	0.351024
AE003852	1350750	36.558	28.896	23.938	38.178	21.922	-1.39132	0.287518	-0.84434	1.14644	0.043625
AE003852	1351250	55.82	33.52	29.944	28.912	25.84	0.451848	0.929018	-0.05832	-0.1344	0.685631
AE003852	1351750	65.76	23.828	35.994	34.212	19.856	1.403573	-0.41266	0.733453	0.599796	-0.29155
AE003852	1352250	57.824	26.27	29.99	18.582	15.938	0.645862	-0.07343	-0.05017	-1.56143	-0.9309
AE003852	1352750	49.388	30.646	29.956	29.262	21.118	-0.15966	0.533711	-0.05355	-0.08297	-0.08253
AE003852	1353250	57.134	32.18	20.272	34.53	17.352	0.582255	0.747156	-1.31814	0.646795	-0.69702
AE003852	1353750	60.344	31.164	24.334	25.91	14.602	0.890407	0.607352	-0.78619	-0.54468	-1.14537
AE003852	1354250	48.958	21.38	27.992	28.93	19.78	-0.19722	-0.74708	-0.30704	-0.12589	-0.29733
AE003852	1354750	49.12	25.304	29.436	25.974	21.278	-0.18054	-0.20255	-0.11725	-0.53382	-0.05105
AE003852	1355250	49.798	31.41	38.246	38.108	22.614	-0.11452	0.644255	1.035236	1.145778	0.168748
AE003852	1355750	49.414	27.616	37.508	32.792	18.688	-0.15005	0.119617	0.939848	0.411375	-0.47191
AE003852	1356250	56.698	28.012	32.68	28.304	26.246	0.547689	0.175416	0.309918	-0.20848	0.765317
AE003852	1356750	52.414	34.378	33.682	25.302	23.668	0.139209	1.058235	0.44194	-0.62277	0.345088
AE003852	1357250	57.702	23.582	26.474	34.724	24.502	0.646075	-0.43638	-0.49904	0.681652	0.482795
AE003852	1357750	60.002	29.722	23.7	33.398	23.064	0.867206	0.415126	-0.86053	0.499218	0.248981
AE003852	1358250	53.642	28.616	30.642	32.112	15.628	0.260203	0.262855	0.047824	0.322317	-0.96563
AE003852	1358750	46.512	24.004	23.744	22.974	16.9	-0.42043	-0.3751	-0.85265	-0.94081	-0.75631
AE003852	1359250	50.772	24.33	18.394	31.594	19.034	-0.01187	-0.329	-1.5508	0.252663	-0.40602
AE003852	1359750	54.428	34.976	25.618	30.078	20.878	0.338931	1.146725	-0.60559	0.043945	-0.10316
AE003852	1360250	36.394	28.13	25.762	28.134	13.834	-1.38443	0.199296	-0.58571	-0.22398	-1.25367
AE003852	1360750	38.574	24.888	26.868	34.872	12.376	-1.17477	-0.24887	-0.44009	0.709142	-1.49076
AE003852	1361250	48.566	23.834	34.686	31.82	22.11	-0.21807	-0.39394	0.582747	0.287937	0.102289
AE003852	1361750	43.648	25.182	30.764	43.696	31.012	-0.68718	-0.20626	0.071227	1.931842	1.559284
AE003852	1362250	37.14	23.734	27.92	36.434	27.124	-1.30834	-0.40591	-0.2994	0.928234	0.924843
AE003852	1362750	43.89	24.156	29.104	27.4	18.368	-0.66166	-0.34651	-0.1436	-0.32051	-0.50562
AE003852	1363250	55.754	25.272	27.032	21.278	16.226	0.474049	-0.19097	-0.41333	-1.16641	-0.85455
AE003852	1363750	68.83	26.748	28.536	21.986	16.116	1.725662	0.01444	-0.2157	-1.06747	-0.87121
AE003852	1364250	55.01	32.424	23.882	18.952	16.158	0.405278	0.801674	-0.82289	-1.48618	-0.86301
AE003852	1364750	61.05	33.018	33.326	19.678	22.672	0.984056	0.884902	0.41246	-1.38475	0.203495
AE003852	1365250	57.432	28.372	36.488	31.028	21.788	0.639264	0.242237	0.826783	0.186392	0.060272
AE003852	1365750	55.564	34.792	33.952	42.508	20.216	0.461819	1.132536	0.496406	1.775516	-0.19545
AE003852	1366250	45.638	32.396	29.482	38.05	16.232	-0.48619	0.801562	-0.08674	1.159807	-0.84559
AE003852	1366750	41.356	22.834	25.508	29.526	18.358	-0.89448	-0.52211	-0.60505	-0.01838	-0.49662

AE003852	1367250	47.366	36.662	30.802	24.836	17.514	-0.31857	1.39441	0.087913	-0.66619	-0.6333
AE003852	1367750	44.79	24.422	44.456	20.574	26.702	-0.56372	-0.30025	1.873489	-1.25478	0.870463
AE003852	1368250	50.684	16.448	34.768	38.066	26.592	0.001097	-1.40394	0.608381	1.16603	0.853805
AE003852	1368750	53.758	21.966	28.944	33.178	14.556	0.296244	-0.63859	-0.15172	0.490836	-1.11301
AE003852	1369250	61.758	32.72	30.172	30.732	18.982	1.062452	0.852095	0.009837	0.153463	-0.38793
AE003852	1369750	52.214	29.728	21.556	34.518	15.77	0.150971	0.438557	-1.11517	0.678213	-0.91183
AE003852	1370250	50.782	26.84	32.26	29.782	15.876	0.015221	0.039427	0.284859	0.024047	-0.89317
AE003852	1370750	43.55	26.244	32.886	27.304	22.122	-0.67517	-0.04219	0.36774	-0.31775	0.129513
AE003852	1371250	35.664	29.142	40.382	30.302	35.592	-1.4281	0.360204	1.348495	0.097987	2.333474
AE003852	1371750	41.758	32.428	36.93	30.008	26.588	-0.84416	0.816353	0.898401	0.058318	0.862458
AE003852	1372250	50.826	29.414	28.72	23.454	19.11	0.02418	0.399768	-0.17354	-0.84735	-0.35902
AE003852	1372750	54.77	22.422	23.694	33.88	16.984	0.402523	-0.56789	-0.82935	0.595968	-0.70534
AE003852	1373250	50.474	28.66	22.184	23.546	14.946	-0.0071	0.2972	-1.02563	-0.83262	-1.03727
AE003852	1373750	43.148	30.698	29.212	20.57	19.988	-0.70648	0.580464	-0.10604	-1.24331	-0.21146
AE003852	1374250	49.496	31.106	35.934	35.186	16.836	-0.09825	0.637926	0.773557	0.779645	-0.72555
AE003852	1374750	57.094	21.426	32.3	27.966	18.178	0.629513	-0.7021	0.299676	-0.21815	-0.50478
AE003852	1375250	52.73	18.528	41.744	27.232	23.098	0.213383	-1.10261	1.535026	-0.31869	0.301077
AE003852	1375750	52.184	18.218	37.09	26.326	18.28	0.162358	-1.14461	0.927836	-0.44302	-0.48544
AE003852	1376250	43.954	18.282	36.058	34.588	18.656	-0.62347	-1.13481	0.794025	0.700928	-0.42263
AE003852	1376750	56.644	22.702	33.726	39.006	22.314	0.591233	-0.52157	0.490309	1.313108	0.176865
AE003852	1377250	57.316	33.676	30.928	28.938	22.662	0.656683	0.999596	0.12569	-0.07868	0.2351
AE003852	1377750	48.058	33.31	28.412	23.036	35.63	-0.22745	0.949836	-0.20207	-0.89415	2.356973
AE003852	1378250	42.894	28.454	27.686	21.136	27.83	-0.72008	0.27808	-0.29589	-1.15599	1.082837
AE003852	1378750	51.602	27.932	28.018	21.346	19.17	0.113831	0.206709	-0.25144	-1.12593	-0.33193
AE003852	1379250	49.724	30.672	29.386	29.106	14.832	-0.06457	0.587221	-0.07158	-0.05143	-1.03995
AE003852	1379750	38.398	29.796	17.136	16.698	20.026	-1.14646	0.466811	-1.67153	-1.76692	-0.18929
AE003852	1380250	42.124	20.48	22.626	30.86	24.082	-0.78896	-0.82279	-0.95295	0.193223	0.475277
AE003852	1380750	52.93	24.924	29.236	37.354	24.154	0.245576	-0.20622	-0.08799	1.092593	0.488381
AE003852	1381250	64.118	21.84	34.008	31.976	21.742	1.316645	-0.6325	0.536754	0.349613	0.095297
AE003852	1381750	68.238	22.212	32.694	24.392	21.546	1.711818	-0.58003	0.366087	-0.69854	0.064576
AE003852	1382250	72.484	28.04	33.968	36.016	19.862	2.119041	0.228262	0.533657	0.910503	-0.20946
AE003852	1382750	59.298	22.412	26.008	39.506	17.818	0.859284	-0.55044	-0.50561	1.394306	-0.54237
AE003852	1383250	56.906	22.054	28.126	35.68	23.81	0.631731	-0.59909	-0.22773	0.866027	0.438777
AE003852	1383750	49.864	35.09	29.51	30.556	23.13	-0.04049	1.207718	-0.04578	0.158185	0.328912
AE003852	1384250	54.26	33.826	24.936	38.336	19.342	0.381077	1.033558	-0.64252	1.235457	-0.28918
AE003852	1384750	59.272	22.454	29.376	25.434	14.298	0.86155	-0.54085	-0.06117	-0.54838	-1.11265
AE003852	1385250	58.146	26.282	40.576	35.638	19.842	0.755061	-0.00962	1.403683	0.864226	-0.20476

AE003852	1385750	54.356	34.108	42.514	32.404	27.034	0.393821	1.075449	1.658035	0.417843	0.972618
AE003852	1386250	56.986	24.956	38.324	28.02	26.658	0.64651	-0.19143	1.111489	-0.18763	0.912463
AE003852	1386750	36.248	24.734	28.278	20.172	23.518	-1.33543	-0.22124	-0.20041	-1.2723	0.400336
AE003852	1387250	30.658	24.948	31.35	18.026	26.5	-1.8688	-0.19065	0.202152	-1.56817	0.889286
AE003852	1387750	43.902	26.124	39.08	28.714	21.858	-0.60112	-0.0268	1.213491	-0.08862	0.13155
AE003852	1388250	40.968	18.266	34.998	26.828	21.128	-0.8805	-1.11442	0.681059	-0.34852	0.013509
AE003852	1388750	41.704	22.388	36.898	29.636	19.154	-0.80893	-0.54246	0.930445	0.040937	-0.30795
AE003852	1389250	42.788	21.328	24.906	31.516	17.512	-0.70408	-0.68836	-0.63578	0.302015	-0.57512
AE003852	1389750	35.59	30.28	21.82	31.476	21.416	-1.39122	0.552692	-1.03804	0.297484	0.064592
AE003852	1390250	44.802	24.858	20.902	31.188	22.898	-0.50911	-0.19747	-1.15696	0.258645	0.30826
AE003852	1390750	37.386	32.82	20.044	31.524	23.834	-1.2171	0.90644	-1.26803	0.306129	0.462646
AE003852	1391250	40.678	30.946	28.206	33.038	23.908	-0.9011	0.647778	-0.20023	0.516576	0.476076
AE003852	1391750	46.55	23.902	40.692	24.678	23.776	-0.33839	-0.32708	1.432695	-0.63893	0.455821
AE003852	1392250	44.042	17.334	33.766	23.082	19.978	-0.57704	-1.236	0.528566	-0.85871	-0.1639
AE003852	1392750	31.044	19.396	24.224	27.842	19.668	-1.81881	-0.94941	-0.71746	-0.19922	-0.21327
AE003852	1393250	34.768	19.798	28.024	20.474	25.53	-1.46151	-0.89278	-0.21975	-1.21749	0.746626
AE003852	1393750	44.906	26.22	27.514	27.098	18.942	-0.49085	-0.0022	-0.28534	-0.30014	-0.32932
AE003852	1394250	47.21	25.128	28.832	31.786	21.304	-0.26934	-0.15254	-0.11202	0.349391	0.058244
AE003852	1394750	49.846	24.828	31.862	35.106	23.8	-0.01607	-0.19315	0.28505	0.809675	0.467723
AE003852	1395250	39.92	31.762	33.132	28.382	14.424	-0.96409	0.768351	0.452098	-0.11951	-1.06412
AE003852	1395750	44.134	30.522	29.8	36.172	21.23	-0.55992	0.597516	0.017688	0.959149	0.050132
AE003852	1396250	64.53	20.278	23.698	37.22	21.584	1.391683	-0.82063	-0.77875	1.105129	0.109349
AE003852	1396750	57.414	24.284	26.552	19.466	19.808	0.712386	-0.26475	-0.40468	-1.34992	-0.17974
AE003852	1397250	38.28	15.784	38.394	30.988	15.772	-1.11616	-1.4413	1.144077	0.245011	-0.83838
AE003852	1397750	36.376	12.936	29.51	26.354	11.85	-1.29705	-1.83489	-0.01595	-0.39505	-1.47838
AE003852	1398250	43.61	16.13	18.104	22.522	26.332	-0.60409	-1.39149	-1.50559	-0.92415	0.891066
AE003852	1398750	36.328	26.852	23.63	31.86	22.938	-1.29926	0.094764	-0.78231	0.368649	0.337404
AE003852	1399250	48.166	17.326	20.232	25.888	25.76	-0.16604	-1.22392	-1.22534	-0.4565	0.800191
AE003852	1399750	42.992	17.722	22.842	23.89	24.16	-0.65963	-1.16812	-0.88316	-0.7319	0.539887
AE003852	1400250	43.4	14.906	26.334	27.318	18.49	-0.61942	-1.55728	-0.42571	-0.25668	-0.38595
AE003852	1400750	42.49	23.556	25.432	22.99	14.616	-0.70525	-0.35806	-0.54253	-0.8544	-1.0181
AE003852	1401250	41.59	20.332	28.692	25.904	20.76	-0.79013	-0.80374	-0.1154	-0.45028	-0.0121
AE003852	1401750	47.138	21.362	35.608	22.208	19.702	-0.2584	-0.66011	0.78955	-0.96058	-0.18377
AE003852	1402250	49.46	27.948	31.782	27.376	20.558	-0.03517	0.253184	0.290577	-0.24464	-0.04247
AE003852	1402750	58.276	28.144	26.84	34.166	19.116	0.809073	0.281277	-0.35425	0.695676	-0.27694
AE003852	1403250	65.124	26.106	22.878	29.826	28.666	1.465118	-0.0001	-0.871	0.096291	1.28602
AE003852	1403750	60.306	31.502	28.288	25.312	26.806	1.005573	0.748342	-0.16288	-0.52716	0.983201

AE003852	1404250	52.86	29.316	33.758	29.06	17.134	0.294718	0.446459	0.553092	-0.00767	-0.59705
AE003852	1404750	51.82	28.262	28.204	33.238	19.416	0.196454	0.30139	-0.17172	0.571307	-0.22256
AE003852	1405250	44.954	31.196	42.178	26.97	23.398	-0.45894	0.708777	1.655675	-0.29479	0.429909
AE003852	1405750	52.732	37.034	42.194	28.228	18.882	0.286042	1.518452	1.658831	-0.11976	-0.30722
AE003852	1406250	56.556	32.338	29.576	28.62	30.092	0.65291	0.86886	0.010787	-0.06453	1.527179
AE003852	1406750	51.292	29.334	28.864	25.722	25.494	0.150715	0.45366	-0.0812	-0.46443	0.776638
AE003852	1407250	52.222	22.986	31.414	37.754	17.838	0.240836	-0.42478	0.253135	1.201054	-0.47395
AE003852	1407750	41.502	23.45	32.558	26.186	19.442	-0.7831	-0.35956	0.403716	-0.39824	-0.21033
AE003852	1408250	51.236	31.072	31.834	22.314	23.99	0.148923	0.697249	0.310158	-0.93288	0.534691
AE003852	1408750	72.144	44.338	31.632	30.67	20.324	2.149491	2.535919	0.284823	0.224074	-0.06345
AE003852	1409250	67.258	34.292	30.744	31.99	21.042	1.683443	1.145196	0.169832	0.407683	0.05529
AE003852	1409750	59.01	24.988	31.204	16.876	19.992	0.895896	-0.14274	0.231017	-1.68216	-0.11508
AE003852	1410250	54.072	31.186	26.154	18.562	16.82	0.424875	0.716808	-0.42793	-1.44792	-0.63244
AE003852	1410750	38.754	32.95	27.182	18.634	19.29	-1.03876	0.962115	-0.29251	-1.43695	-0.22721
AE003852	1411250	34.976	36.902	29.242	21.802	24.696	-1.39885	1.510524	-0.02221	-0.9977	0.658115
AE003852	1411750	41.496	25.226	27.754	29.84	18.404	-0.77417	-0.106	-0.21562	0.115268	-0.36943
AE003852	1412250	44.938	17.42	28.69	33.654	14.434	-0.44383	-1.18642	-0.09222	0.643892	-1.01728
AE003852	1412750	40.182	15.576	27.384	36.16	18.508	-0.89745	-1.44092	-0.26185	0.991569	-0.34977
AE003852	1413250	58.718	28.104	34.284	33.046	18.696	0.876288	0.295511	0.641016	0.561787	-0.31769
AE003852	1413750	56.592	22.998	28.41	33.488	14.48	0.674172	-0.41088	-0.12562	0.623935	-1.00577
AE003852	1414250	50.486	19.16	24.138	30.9	19.632	0.091459	-0.94161	-0.68289	0.266918	-0.16198
AE003852	1414750	55.7	29.554	35.772	25.222	22.462	0.591249	0.499203	0.838686	-0.51756	0.302115
AE003852	1415250	52.828	26.216	17.006	23.386	19.694	0.317794	0.037735	-1.61287	-0.77055	-0.14918
AE003852	1415750	46.864	28.214	17.548	20.628	20.642	-0.25134	0.315458	-1.54097	-1.15108	0.007166
AE003852	1416250	43.846	17.898	30.016	22.802	23.62	-0.53876	-1.11267	0.089602	-0.84933	0.495462
AE003852	1416750	48.128	23.684	31.314	28.652	25.674	-0.12809	-0.3102	0.26031	-0.03905	0.832664
AE003852	1417250	38.676	24.528	28.428	15.18	27.438	-1.03077	-0.19234	-0.11581	-1.90174	1.122445
AE003852	1417750	35.596	22.37	30.296	27.044	21.184	-1.32412	-0.49034	0.129393	-0.2595	0.101113
AE003852	1418250	39.018	29.37	38.028	21.744	20.048	-0.99569	0.480306	1.140992	-0.99169	-0.08332
AE003852	1418750	46.06	28.448	37.214	21.918	17.97	-0.3211	0.353524	1.035672	-0.96661	-0.42179
AE003852	1419250	46.374	33.058	34.72	28.326	20.172	-0.28988	0.993085	0.710784	-0.07914	-0.06038
AE003852	1419750	50.786	31.952	27.89	34.594	25.55	0.133215	0.840813	-0.1808	0.788965	0.820365
AE003852	1420250	43.19	32.97	26.892	26.712	17.542	-0.59198	0.982778	-0.31017	-0.30041	-0.48778
AE003852	1420750	48.996	23.412	28.222	25.408	16.476	-0.03558	-0.34034	-0.13528	-0.4798	-0.66077
AE003852	1421250	41.364	19.834	25.978	23.52	14.448	-0.76422	-0.83506	-0.42749	-0.73998	-0.99106
AE003852	1421750	34.82	18.616	22.68	29.706	17.472	-1.38882	-1.00285	-0.85746	0.116778	-0.49524
AE003852	1422250	46.776	26.666	16.444	33.7	26.262	-0.24431	0.113256	-1.67141	0.670303	0.94344

AE003852	1422750	37.006	23.912	24.16	29.47	25.542	-1.1774	-0.26731	-0.6619	0.086135	0.827035
AE003852	1423250	39.78	24.776	20.506	21.73	24.906	-0.91095	-0.14668	-1.13839	-0.9836	0.724365
AE003852	1423750	35.988	24.56	20.752	22.882	19.99	-1.27238	-0.17566	-1.10517	-0.82323	-0.07818
AE003852	1424250	31.448	11.576	27.498	30.064	17.464	-1.70534	-1.97338	-0.22244	0.171315	-0.4899
AE003852	1424750	28.488	21.01	25.166	38.026	19.732	-1.98721	-0.66556	-0.52616	1.273765	-0.11771
AE003852	1425250	38.204	34.986	32.484	29.75	18.366	-1.0569	1.271469	0.431336	0.129882	-0.33975
AE003852	1425750	44.108	18.374	31.708	22.218	10.534	-0.49113	-1.02884	0.330982	-0.91108	-1.61911
AE003852	1426250	42.792	23.352	23.962	21.848	17.026	-0.61579	-0.3383	-0.68032	-0.96126	-0.55621
AE003852	1426750	38.82	17.324	26.052	18.412	18.84	-0.99443	-1.17241	-0.4061	-1.43559	-0.25825
AE003852	1427250	36.802	26.946	40.432	32.804	12.7	-1.18622	0.161461	1.474362	0.556376	-1.26094
AE003852	1427750	47.222	17.784	29.954	30.832	8.412	-0.18859	-1.1068	0.106004	0.284576	-1.96079
AE003852	1428250	48.998	23.238	25.28	28.592	16	-0.01757	-0.35032	-0.5038	-0.0243	-0.71866
AE003852	1428750	51.662	28.078	30.048	19.858	18.13	0.238369	0.321101	0.120421	-1.23154	-0.36903
AE003852	1429250	57.274	32.416	26.276	23.898	20.198	0.776218	0.922982	-0.3715	-0.67165	-0.02954
AE003852	1429750	46.994	20.624	22.222	20.946	12.514	-0.20564	-0.70961	-0.90027	-1.07903	-1.28471
AE003852	1430250	41.348	26.902	22.156	23.204	27.736	-0.74437	0.161016	-0.90783	-0.76566	1.205744
AE003852	1430750	55.362	19.714	28.044	25.47	27.722	0.596942	-0.83379	-0.13723	-0.45118	1.204784
AE003852	1431250	58.884	15.452	24.362	26.772	20.036	0.93493	-1.42326	-0.61738	-0.27006	-0.05071
AE003852	1431750	44.924	25.798	20.782	37.412	18.802	-0.39884	0.010905	-1.08421	1.202859	-0.25117
AE003852	1432250	45.664	20.196	30.752	33.672	17.098	-0.32689	-0.76419	0.219888	0.686477	-0.52848
AE003852	1432750	35.56	19.414	38.012	34.236	14.248	-1.29192	-0.87158	1.1698	0.765502	-0.99318
AE003852	1433250	41.864	21.898	35.402	38.178	12.512	-0.6879	-0.52653	0.829751	1.311833	-1.27573
AE003852	1433750	41.686	19.432	32.948	40.364	11.478	-0.70373	-0.86721	0.510091	1.615243	-1.44348
AE003852	1434250	51.418	22.868	30.152	37.596	21.024	0.228103	-0.39028	0.145733	1.233325	0.118826
AE003852	1434750	52.42	27.702	43.226	26.394	19.836	0.32511	0.280314	1.855505	-0.31534	-0.07411
AE003852	1435250	51.614	29.064	46.616	25.996	19.746	0.249222	0.469933	2.299627	-0.36939	-0.08749
AE003852	1435750	41.434	34.146	32.4	30.794	20.468	-0.72308	1.17488	0.442732	0.295357	0.031897
AE003852	1436250	44.882	31.202	32.366	31.92	26.222	-0.39217	0.767991	0.439354	0.452128	0.974128
AE003852	1436750	56.704	32.814	30.704	27.024	21.508	0.73953	0.992242	0.223204	-0.22417	0.204619
AE003852	1437250	68.336	20.15	28.61	32.806	23.472	1.853057	-0.76115	-0.04941	0.5767	0.527104
AE003852	1437750	60.172	19.086	23.178	30.514	27.24	1.073543	-0.9076	-0.75828	0.260632	1.144582
AE003852	1438250	65.464	13.986	23.37	19.348	22.206	1.580791	-1.61316	-0.73212	-1.28305	0.322745
AE003852	1438750	51.722	26.538	33.298	33.936	22.384	0.267866	0.1266	0.566489	0.736029	0.353182
AE003852	1439250	53.812	20.668	34.638	42.712	22.484	0.468916	-0.68563	0.742686	1.951087	0.370863
AE003852	1439750	38.622	23.312	31.926	29.994	21.486	-0.98248	-0.31841	0.389306	0.192705	0.208999
AE003852	1440250	35.02	27.594	32.6	34.094	15.19	-1.32574	0.275711	0.47846	0.760894	-0.8192
AE003852	1440750	36.584	28.836	24.756	27.328	14.06	-1.17499	0.448706	-0.54565	-0.1741	-1.00265

AE003852	1441250	44.776	29.362	30.346	23.178	14.646	-0.39042	0.522514	0.186004	-0.7472	-0.9055
AE003852	1441750	52.95	24.572	27.498	22.536	17.82	0.392425	-0.1401	-0.18515	-0.83501	-0.38515
AE003852	1442250	54.37	20.22	23.568	26.28	24.114	0.529404	-0.74204	-0.69772	-0.31607	0.645381
AE003852	1442750	45.17	17.22	24.816	25.51	19.582	-0.34918	-1.15668	-0.53354	-0.42159	-0.09437
AE003852	1443250	48.194	20.718	25.668	26.678	20.446	-0.05882	-0.67117	-0.42113	-0.25901	0.048244
AE003852	1443750	58.106	22.1	27.46	25.23	14.76	0.890232	-0.47878	-0.18585	-0.45832	-0.88021
AE003852	1444250	66.75	20.366	22.574	26.328	21.522	1.718024	-0.71804	-0.82336	-0.30542	0.226852
AE003852	1444750	57.284	34.552	29.278	39.086	20.296	0.814002	1.248072	0.05388	1.460499	0.027704
AE003852	1445250	55.642	28.164	30.602	22.39	19.712	0.65817	0.36409	0.227986	-0.84819	-0.06646
AE003852	1445750	56.31	23.382	22.19	26.798	26.172	0.723237	-0.29742	-0.87036	-0.23739	0.991215
AE003852	1446250	53.554	24.19	17.702	19.012	20.458	0.460876	-0.18454	-1.45585	-1.31349	0.058184
AE003852	1446750	46.488	18.548	24.516	17.112	17.678	-0.21364	-0.96518	-0.56423	-1.57533	-0.39508
AE003852	1447250	55.214	20.568	29.212	24.134	20.316	0.621993	-0.68441	0.050582	-0.60292	0.037623
AE003852	1447750	71.496	24.2	31.762	29.592	18.698	2.180188	-0.18033	0.384919	0.153132	-0.22562
AE003852	1448250	52.346	22.534	23.728	26.438	16.466	0.35011	-0.41018	-0.66402	-0.28218	-0.58927
AE003852	1448750	43.3	22.614	25.738	26.468	19.918	-0.51375	-0.39816	-0.40026	-0.27703	-0.02347
AE003852	1449250	44.908	21.976	24.004	33.266	13.86	-0.35879	-0.4856	-0.62582	0.664393	-1.01275
AE003852	1449750	49.516	24.446	19.548	39.93	14.834	0.083048	-0.14249	-1.20713	1.58728	-0.85215
AE003852	1450250	61.238	20.24	21.502	40.406	21.544	1.205181	-0.7242	-0.95068	1.654132	0.246405
AE003852	1450750	48.568	15.352	22.966	32.25	19.084	-0.00523	-1.40039	-0.75828	0.526849	-0.15453
AE003852	1451250	48.912	22.608	32.71	29.112	22.318	0.028853	-0.39428	0.516277	0.093746	0.375629
AE003852	1451750	51.074	21.72	40.824	30.366	19.396	0.236788	-0.51635	1.577802	0.268224	-0.10085
AE003852	1452250	50.498	28.586	33.644	31.734	16.682	0.182894	0.435732	0.640477	0.458473	-0.54332
AE003852	1452750	49.136	27.398	26.49	31.71	14.632	0.053837	0.272101	-0.29345	0.456156	-0.87721
AE003852	1453250	48.418	28.542	38.174	27.176	20.026	-0.01364	0.43152	1.234656	-0.17007	0.006157
AE003852	1453750	46.98	32.444	28.488	27.63	15.9	-0.14996	0.973003	-0.03019	-0.10626	-0.6672
AE003852	1454250	28.034	19.614	23.756	29.894	21.606	-1.96053	-0.80338	-0.64757	0.207941	0.26718
AE003852	1454750	31.578	20.242	24.74	22.682	20.954	-1.62044	-0.71545	-0.5179	-0.78875	0.161893
AE003852	1455250	43.092	23.194	24.084	28.87	23.652	-0.5182	-0.30557	-0.60258	0.068287	0.604403
AE003852	1455750	42.384	24.496	28.246	35.71	24.53	-0.58471	-0.12426	-0.05756	1.015522	0.749305
AE003852	1456250	47.064	29.88	29.418	27.464	21.87	-0.13599	0.622522	0.096683	-0.12421	0.315668
AE003852	1456750	45.37	31.204	33.782	26.754	16.388	-0.29679	0.806877	0.668102	-0.22143	-0.57943
AE003852	1457250	37.234	24.074	37.058	31.808	13.386	-1.07363	-0.17989	1.097324	0.478734	-1.06899
AE003852	1457750	39.398	26.116	26.706	40.224	14.648	-0.8655	0.103924	-0.25457	1.64399	-0.86129
AE003852	1458250	52.68	32.77	25.53	35.598	16.868	0.405809	1.026638	-0.4072	1.00504	-0.49695
AE003852	1458750	46.438	19.52	19.182	27.272	18.548	-0.18991	-0.80793	-1.23578	-0.14576	-0.2209
AE003852	1459250	41.472	18.29	15.624	25.366	14.002	-0.66361	-0.97738	-1.69973	-0.40843	-0.96294

AE003852	1459750	48.082	22.928	24.398	29.466	12.92	-0.03032	-0.33394	-0.55195	0.159758	-1.13854
AE003852	1460250	59.77	24.906	26.434	44.26	18.318	1.08856	-0.05899	-0.28479	2.207334	-0.25452
AE003852	1460750	40.134	25.336	27.972	33.684	20.27	-0.78799	0.001521	-0.08271	0.745273	0.066
AE003852	1461250	45.246	27.298	25.294	25.214	25.046	-0.29796	0.274257	-0.43165	-0.42545	0.848307
AE003852	1461750	43.58	32.194	22.2	33.122	22.358	-0.45608	0.953437	-0.83495	0.669532	0.410092
AE003852	1462250	48.606	19.262	32.786	24.636	23.28	0.025727	-0.83708	0.54965	-0.5034	0.562188
AE003852	1462750	56.16	19.186	30.364	37.264	20.042	0.749285	-0.84667	0.234172	1.244533	0.034036
AE003852	1463250	53.582	25.258	26.364	30.022	28.118	0.503945	-0.00458	-0.28754	0.243691	1.355963
AE003852	1463750	49.596	22.634	32.394	34.252	25.614	0.123962	-0.36713	0.501613	0.829863	0.947835
AE003852	1464250	42.01	27.756	27.016	27.802	24.434	-0.60028	0.343353	-0.2002	-0.06141	0.75621
AE003852	1464750	46.622	32.932	29.384	29.662	19	-0.15806	1.061322	0.110352	0.196896	-0.13104
AE003852	1465250	47.424	28.364	27.466	33.534	18.974	-0.08018	0.429462	-0.13926	0.733544	-0.13396
AE003852	1465750	41.218	20.856	22.858	28.764	19.014	-0.67245	-0.60967	-0.74043	0.074673	-0.12609
AE003852	1466250	48.442	21.804	24.2	24.328	12.748	0.019548	-0.47741	-0.56397	-0.53799	-1.14938
AE003852	1466750	40.218	28.414	22.546	29.334	13.45	-0.7657	0.439214	-0.77908	0.155531	-1.03326
AE003852	1467250	43.604	20.778	21.91	30.148	24.082	-0.44072	-0.61765	-0.86114	0.26914	0.706628
AE003852	1467750	39.784	24.104	34.284	25.688	20.238	-0.80483	-0.15596	0.757151	-0.34684	0.079382
AE003852	1468250	34.786	18.066	30.566	28.002	15.646	-1.28159	-0.99146	0.272292	-0.02573	-0.67018
AE003852	1468750	35.392	24.89	28.696	32.308	13.588	-1.22245	-0.0452	0.028958	0.570958	-1.00538
AE003852	1469250	45.268	29.894	18.706	22.902	15.342	-0.27685	0.648945	-1.27562	-0.72925	-0.71723
AE003852	1469750	39.354	25.502	18.05	16.266	25.238	-0.8412	0.041467	-1.36029	-1.64626	0.902307
AE003852	1470250	38.3	24.094	21	23.1	22.976	-0.9408	-0.15264	-0.97367	-0.69985	0.533751
AE003852	1470750	47.818	28.71	27.07	23.966	27.698	-0.02943	0.487752	-0.17929	-0.57905	1.307228
AE003852	1471250	40.938	22.91	30.014	21.716	22.146	-0.68616	-0.31478	0.206541	-0.88931	0.400688
AE003852	1471750	31.672	23.572	25.304	20.928	20.476	-1.57106	-0.22213	-0.40797	-0.99732	0.128937
AE003852	1472250	34.52	26.408	22.162	21.108	18.562	-1.29752	0.171683	-0.81755	-0.97141	-0.18271
AE003852	1472750	48.218	20.026	26.38	26.34	21.028	0.013571	-0.71147	-0.26521	-0.24662	0.22186
AE003852	1473250	51.648	20.812	27.782	34.05	19.982	0.342762	-0.60164	-0.08091	0.820964	0.052146
AE003852	1473750	46.1	28.716	33.606	29.572	14.07	-0.18659	0.494233	0.681325	0.202489	-0.91326
AE003852	1474250	46.474	19.386	27.948	33.814	19.118	-0.14964	-0.7973	-0.05708	0.790321	-0.08648
AE003852	1474750	51.536	18.5	21.64	34.286	25.6	0.335615	-0.9191	-0.88044	0.856619	0.974797
AE003852	1475250	47.258	26.702	30.384	28.204	25.182	-0.07229	0.21806	0.263422	0.016249	0.907775
AE003852	1475750	47.576	24.364	31.924	26.428	14.13	-0.04069	-0.10488	0.465758	-0.22844	-0.89813
AE003852	1476250	49.912	27.816	33.534	25.034	8.426	0.18388	0.374265	0.677242	-0.42028	-1.82953
AE003852	1476750	46.078	30.208	32.294	27.902	15.262	-0.18157	0.706568	0.516246	-0.02252	-0.71037
AE003852	1477250	44.548	33.762	25.412	29.808	19.412	-0.32669	1.199843	-0.38213	0.242153	-0.03042
AE003852	1477750	42.868	26.52	22.246	27.542	17.166	-0.48616	0.197556	-0.79485	-0.07032	-0.39636

AE003852	1478250	46.656	20.55	27.978	23.522	23.716	-0.12273	-0.62852	-0.04464	-0.62544	0.67603
AE003852	1478750	57.86	22.534	19.114	23.378	26.194	0.949868	-0.35274	-1.20205	-0.64435	1.082566
AE003852	1479250	53.462	21.876	16.92	28.92	19.876	0.530486	-0.44295	-1.48773	0.123318	0.050768
AE003852	1479750	51.556	19.564	19.264	37.99	18.878	0.349408	-0.76229	-1.18032	1.379047	-0.1111
AE003852	1480250	54.894	18.5	21.566	34.066	16.676	0.6698	-0.90874	-0.87839	0.837211	-0.46984
AE003852	1480750	54.492	19.02	21.504	30.268	14.998	1.053351	-0.46929	-0.61388	0.726959	-0.22317
AE003852	1481250	48.722	21.764	27.634	33.27	21.304	0.500392	-0.09011	0.186216	1.141248	0.806664
AE003852	1481750	37.5	21.142	31.312	34.79	16.398	-0.57393	-0.17721	0.665847	1.350519	0.003099
AE003852	1482250	44.648	27.926	25.99	23.458	21.802	0.10843	0.761627	-0.03078	-0.21813	0.885439
AE003852	1482750	42.778	28.408	21.502	27.936	16.394	-0.07158	0.827457	-0.6184	0.400345	-0.00021
AE003852	1483250	40.924	24.252	25.402	21.238	18.06	-0.25006	0.250788	-0.10976	-0.52725	0.270883
AE003852	1483750	36.93	23.174	35.87	23.256	14.504	-0.63319	0.100511	1.257293	-0.24908	-0.31193
AE003852	1484250	40.588	23.282	30.52	22.932	13.898	-0.28457	0.114531	0.557009	-0.29491	-0.41235
AE003852	1484750	49.414	20.154	25.768	31.242	23.828	0.55825	-0.31973	-0.06512	0.853681	1.210085
AE003852	1485250	47.926	21.524	29.7	30.58	25.866	0.414769	-0.13089	0.447709	0.761099	1.542011
AE003852	1485750	47.624	27.402	34.732	31.098	35.026	0.384701	0.682446	1.1043	0.831756	3.038536
AE003852	1486250	52.604	24.948	29.566	21.194	18.422	0.859738	0.341554	0.428064	-0.53935	0.3221
AE003852	1486750	37.526	26.072	26.68	21.288	21.352	-0.58332	0.496319	0.049813	-0.52735	0.799888
AE003852	1487250	36.314	15.948	27.076	23.118	15.724	-0.70041	-0.90709	0.100503	-0.27519	-0.12174
AE003852	1487750	53.114	25.94	23.19	47.116	24.094	0.904944	0.47615	-0.40844	3.043646	1.245604
AE003852	1488250	56.1	38.334	21.51	37.632	26.586	1.1893	2.192139	-0.62908	1.730645	1.651769
AE003852	1488750	55.6	28.066	16.742	24.054	18.124	1.140298	0.76878	-1.2533	-0.14871	0.266723
AE003852	1489250	47.756	19.102	19.038	20.258	16.264	0.389008	-0.47394	-0.95429	-0.67485	-0.03876
AE003852	1489750	37.088	18.022	26.448	25.848	23.488	-0.63233	-0.62449	0.013099	0.097462	1.141191
AE003852	1490250	28.464	19.886	28.714	29.966	17.732	-1.45821	-0.36721	0.308189	0.666136	0.198633
AE003852	1490750	40.04	21.024	36.512	24.922	20.132	-0.35242	-0.21051	1.326283	-0.03264	0.589755
AE003852	1491250	53.82	31.406	35.778	28.708	20.378	0.964141	1.226759	1.229287	0.490102	0.628651
AE003852	1491750	61.354	28.674	35.756	28.554	21.018	1.683411	0.847355	1.225347	0.467795	0.731975
AE003852	1492250	51.882	23.92	35.124	21.56	25.11	0.776439	0.187846	1.141682	-0.50074	1.399775
AE003852	1492750	49.854	17.98	21.49	27.454	14.702	0.581318	-0.63596	-0.64128	0.313619	-0.30348
AE003852	1493250	49.022	21.782	24.012	32.322	18.314	0.500568	-0.11021	-0.31273	0.986046	0.285825
AE003852	1493750	55.824	25.526	23.7	28.524	16.304	1.149839	0.407499	-0.35457	0.459636	-0.04418
AE003852	1494250	56.92	28.66	36.568	28.328	19.468	1.253458	0.840708	1.326144	0.431519	0.47187
AE003852	1494750	48.518	27.488	30.238	24.52	15.982	0.448808	0.67741	0.497779	-0.09627	-0.0995
AE003852	1495250	38.714	23.472	25.608	28.754	14.29	-0.48991	0.120135	-0.1084	0.488446	-0.3775
AE003852	1495750	44.85	19.486	23.336	21.56	22.814	0.095671	-0.43298	-0.40641	-0.50776	1.015023
AE003852	1496250	43.84	24.638	36.874	30.116	22.044	-0.0021	0.279776	1.361875	0.674858	0.887782

AE003852	1496750	50.008	34.206	33.898	26.582	22.458	0.586541	1.604282	0.971861	0.184969	0.95415
AE003852	1497250	50.052	22.288	34.236	25.198	23.728	0.589561	-0.04765	1.01497	-0.00749	1.160492
AE003852	1497750	55.72	21.686	39.472	27.806	14.324	1.130389	-0.13199	1.698224	0.35229	-0.37859
AE003852	1498250	41.69	26.138	25.176	24.752	10.468	-0.21245	0.483804	-0.17126	-0.0712	-1.01046
AE003852	1498750	36.798	18.57	30.252	23.386	8.434	-0.68145	-0.56553	0.491085	-0.26117	-1.34439
AE003852	1499250	41.086	21.484	23.95	21.292	16.1	-0.27259	-0.16279	-0.33362	-0.55185	-0.09217
AE003852	1499750	41.52	22.162	23.548	18.908	11.272	-0.23227	-0.06981	-0.38723	-0.88265	-0.88298
AE003852	1500250	31.918	23.712	22.862	18.722	17.042	-1.15168	0.143965	-0.47795	-0.90939	0.059212
AE003852	1500750	43.086	22.548	18.678	31.102	13.866	-0.0849	-0.01822	-1.02584	0.802238	-0.46146
AE003852	1501250	43.996	12.466	31.94	30.954	13.104	0.000937	-1.41582	0.706371	0.780761	-0.58739
AE003852	1501750	42.238	21.882	31.572	36.512	18.792	-0.16836	-0.11237	0.657209	1.548642	0.341385
AE003852	1502250	55.262	30.852	25.144	42.876	13.19	1.0759	1.129297	-0.18396	2.428023	-0.57599
AE003852	1502750	54.054	30.714	28.092	38.452	18.356	0.959194	1.109238	0.20026	1.815013	0.267431
AE003852	1503250	60.71	26.286	30.162	32.042	15.934	1.594503	0.494889	0.469733	0.927264	-0.12995
AE003852	1503750	45.082	14.184	30.534	37.134	19.414	0.098848	-1.18253	0.517286	1.630679	0.437777
AE003852	1504250	44.914	19.684	30.7	33.264	14.804	0.081595	-0.42156	0.537916	1.094308	-0.31739
AE003852	1504750	44.196	26.554	24.786	42.91	14.708	0.011746	0.52919	-0.23608	2.427715	-0.33441
AE003852	1505250	35.26	23.604	35.532	32.43	21.536	-0.84397	0.119587	1.167304	0.976929	0.78078
AE003852	1505750	51.254	28.808	32.296	25.826	22.564	0.684309	0.839551	0.743309	0.062342	0.947551
AE003852	1506250	61.55	33.268	36.384	27.53	17.098	1.667702	1.45645	1.276525	0.297068	0.052414
AE003852	1506750	62.528	22.734	36.674	30.388	19.59	1.760037	-0.00376	1.313361	0.691436	0.458579
AE003852	1507250	75.058	27.966	31.516	32.516	18.49	2.957062	0.720085	0.63817	0.984817	0.277376
AE003852	1507750	40.4	27.798	25.252	28.394	14.914	-0.35838	0.69587	-0.18157	0.413585	-0.30871
AE003852	1508250	38.736	31.494	21.438	23.362	17.278	-0.5187	1.206933	-0.6811	-0.28353	0.076529
AE003852	1508750	34.618	18.572	25.178	18.578	19.886	-0.91368	-0.58408	-0.19337	-0.94635	0.501663
AE003852	1509250	40.554	20.84	22.61	31.956	19.592	-0.34722	-0.27084	-0.53006	0.903338	0.452258
AE003852	1509750	47.626	17.256	25.934	30.916	12.128	0.327868	-0.76827	-0.0967	0.758464	-0.76959
AE003852	1510250	36.264	20.464	20.074	22.428	14.704	-0.75984	-0.32481	-0.86363	-0.41675	-0.34969
AE003852	1510750	34.896	24.352	23.054	27.118	12.964	-0.89185	0.212849	-0.47523	0.231051	-0.63555
AE003852	1511250	39.144	20.818	19.056	35.528	16.9	-0.48681	-0.27766	-0.99881	1.393472	0.006741
AE003852	1511750	37.098	25.982	25.272	27.526	18.708	-0.68365	0.436768	-0.18748	0.285488	0.301057
AE003852	1512250	49.57	35.886	34.512	15.788	17.902	0.507828	1.807819	1.019078	-1.33933	0.16793
AE003852	1512750	40.674	28.512	40.214	19.634	21.698	-0.34406	0.785363	1.763236	-0.80828	0.787327
AE003852	1513250	41.008	39.618	35.142	26.842	22.03	-0.31331	2.322927	1.099285	0.187858	0.840286
AE003852	1513750	45.252	32.526	34.61	17.68	18.784	0.091345	1.339536	1.02869	-1.0806	0.308167
AE003852	1514250	48.074	21.868	30.89	13.696	15.658	0.360018	-0.13785	0.541439	-1.63274	-0.20433
AE003852	1514750	47.406	16.694	24.634	18.588	14.052	0.29495	-0.85554	-0.27725	-0.95699	-0.46828

AE003852	1515250	36.198	21.708	22.264	30.97	16.08	-0.77803	-0.1619	-0.58807	0.754908	-0.13798
AE003852	1515750	45.04	26.706	23.8	32.02	15.606	0.06632	0.52953	-0.38839	0.899161	-0.21682
AE003852	1516250	50.33	27.974	35.154	30.068	22.754	0.571001	0.704243	1.094461	0.628122	0.950698
AE003852	1516750	65.868	26.114	30.11	25.444	22.056	2.055673	0.445637	0.434169	-0.01256	0.835231
AE003852	1517250	60.714	25.526	34.618	19.754	21.428	1.561621	0.36324	1.022277	-0.8007	0.73121
AE003852	1517750	55.116	22.002	26.804	18.094	19.506	1.02511	-0.12588	-3.92E-05	-1.03134	0.415592
AE003852	1518250	42.788	21.554	24.122	31.174	22.062	-0.15497	-0.18888	-0.35163	0.777115	0.832223
AE003852	1518750	43.612	18.93	30.156	25.9	17.658	-0.07736	-0.55332	0.43592	0.046517	0.110746
AE003852	1519250	45.24	19.434	27.756	26.376	14.342	0.077129	-0.48445	0.121186	0.111364	-0.43282
AE003852	1519750	43.442	17.376	26.858	33.722	16.018	-0.096	-0.77048	0.002756	1.126593	-0.16009
AE003852	1520250	46.27	24.772	38.27	30.466	18.342	0.17325	0.253139	1.493183	0.675162	0.218605
AE003852	1520750	47.566	24.79	29.97	26.448	16.284	0.295995	0.254691	0.407349	0.118317	-0.11925
AE003852	1521250	44.272	23.62	25.61	41.142	12.03	-0.02019	0.09167	-0.16355	2.150054	-0.8162
AE003852	1521750	40.932	22.682	27.784	33.856	19.148	-0.34077	-0.03921	0.119518	1.141121	0.346415
AE003852	1522250	36.044	20.62	36.948	34.774	20.062	-0.80939	-0.3258	1.316142	1.267113	0.494544
AE003852	1522750	48.724	23.156	32.334	30.88	13.94	0.40198	0.024568	0.71205	0.727422	-0.50786
AE003852	1523250	47.816	27.68	30.034	22.31	19.738	0.313962	0.650332	0.410386	-0.45914	0.438903
AE003852	1523750	47.906	26.254	33.238	26.302	20.946	0.32138	0.451848	0.828067	0.092105	0.635108
AE003852	1524250	47.392	21.096	38.232	29.46	21.24	0.27104	-0.26363	1.479693	0.527975	0.681853
AE003852	1524750	42.514	21.972	37.73	22.422	23.102	-0.19662	-0.14322	1.413018	-0.44665	0.985
AE003852	1525250	72.998	22.502	37.954	23.814	21.4	2.717301	-0.07074	1.441228	-0.25509	0.705357
AE003852	1525750	70.004	27.632	51.854	34.272	14.012	2.429805	0.638974	3.256824	1.19065	-0.50407
AE003852	1526250	59.076	25.138	45.912	31.542	22.824	1.383599	0.292541	2.479169	0.811985	0.935552
AE003852	1526750	51.702	29.09	27.548	29.806	21.994	0.677254	0.839067	0.07802	0.570828	0.7985
AE003852	1527250	46.782	29.722	26.962	36.904	19.136	0.205579	0.925675	0.000367	1.551749	0.329827
AE003852	1527750	47.614	20.17	35.286	46.636	15.594	0.283953	-0.3985	1.087207	2.897053	-0.2507
AE003852	1528250	47.25	35.676	30.232	36.328	18.686	0.247957	1.748595	0.425609	1.470062	0.253583
AE003852	1528750	36.078	29.292	25.95	33.204	20.708	-0.82158	0.863283	-0.13509	1.036891	0.582893
AE003852	1529250	45.74	9.456	27.474	26.158	13.416	0.101183	-1.88552	0.063021	0.061159	-0.61083
AE003852	1529750	39.708	11.22	39.028	20.002	12.926	-0.47683	-1.6421	1.572006	-0.79145	-0.69229
AE003852	1530250	45.936	18.256	32.312	26.026	19.418	0.11755	-0.66835	0.693193	0.040893	0.367962
AE003852	1530750	34.574	16.32	36.74	29.126	16.278	-0.97016	-0.93748	1.270845	0.468739	-0.14682
AE003852	1531250	48.364	17.074	39.36	40.108	19.742	0.347358	-0.83398	1.6122	1.986965	0.418284
AE003852	1531750	48.91	15.698	36.062	31.614	15.624	0.398382	-1.02553	1.180103	0.810919	-0.25643
AE003852	1532250	49.998	18.706	27.136	23.832	15.048	0.501237	-0.60978	0.012453	-0.26663	-0.35194
AE003852	1532750	47.872	34.978	26.726	23.274	12.196	0.296745	1.643426	-0.0422	-0.34483	-0.81964
AE003852	1533250	47.816	27.556	26.186	26.578	9.34	0.290202	0.614321	-0.11384	0.111241	-1.28798

AE003852	1533750	40.514	24.19	19.198	33.644	12.702	-0.40926	0.14709	-1.0282	1.087736	-0.73955
AE003852	1534250	38.866	26.664	27.078	37.69	6.772	-0.56804	0.48887	0.000611	1.64645	-1.71056
AE003852	1534750	39.13	28.85	30.396	27.972	8.706	-0.54398	0.790753	0.433192	0.301078	-1.39564
AE003852	1535250	37.572	25.434	31.146	23.026	13.29	-0.69416	0.316596	0.530148	-0.38414	-0.64739
AE003852	1535750	48.294	16.7	20.926	33.438	12.536	0.329972	-0.89426	-0.80662	1.055229	-0.77202
AE003852	1536250	45.252	21.334	22.134	25.158	15.552	0.037885	-0.25326	-0.64981	-0.09121	-0.28017
AE003852	1536750	39.21	28.38	31.686	34.744	20.384	-0.54108	0.721878	0.597526	1.233894	0.508639
AE003852	1537250	50.652	27.386	34.87	32.966	28.336	0.551897	0.583238	1.012594	0.986926	1.80763
AE003852	1537750	53.776	28.032	34.81	23.692	16.792	0.84945	0.671786	1.003687	-0.29702	-0.08139
AE003852	1538250	49.134	21.036	28.654	43.646	18.67	0.404359	-0.29831	0.198063	2.462372	0.224375
AE003852	1538750	52.298	24.916	26.304	41.782	25.112	0.705736	0.238246	-0.11014	2.203508	1.276449
AE003852	1539250	38.956	35.538	24.44	27.32	25.096	-0.57131	1.708761	-0.35482	0.20186	1.272503
AE003852	1539750	42.158	39.11	32.702	31.87	25.718	-0.2663	2.202646	0.72392	0.830296	1.372884
AE003852	1540250	54.832	29.56	40.276	22.634	26.258	0.944492	0.87875	1.712739	-0.4484	1.459856
AE003852	1540750	57.456	23.706	25.344	19.618	22.866	1.194231	0.066859	-0.23987	-0.86663	0.903862
AE003852	1541250	60.092	36.818	31.1	24.206	22.19	1.445117	1.882312	0.51135	-0.23293	0.791992
AE003852	1541750	72.556	22.236	49.556	29.962	25.568	2.63583	-0.13866	2.922392	0.562337	1.343037
AE003852	1542250	68.768	28.464	35.344	22.53	24.026	2.272405	0.723156	1.063889	-0.46679	1.089558
AE003852	1542750	63.924	27.604	21.57	25.308	14.344	1.807998	0.603079	-0.73737	-0.08349	-0.49498
AE003852	1543250	51.482	34.062	22.056	33.366	15.356	0.617012	1.496759	-0.67492	1.030233	-0.33083
AE003852	1543750	41.13	17.012	17.486	26.466	17.658	-0.37411	-0.86611	-1.27326	0.074698	0.044266
AE003852	1544250	45.816	17.42	30.518	18.854	17.952	0.072811	-0.81053	0.428893	-0.97933	0.091011
AE003852	1544750	46.196	21.32	30.956	28.59	16.52	0.107961	-0.27121	0.485072	0.366523	-0.14448
AE003852	1545250	45.43	29.794	35.246	23.364	21.456	0.033523	0.901749	1.044688	-0.35743	0.661331
AE003852	1545750	42.928	30.822	34.722	24.772	20.514	-0.20693	1.043216	0.975138	-0.16366	0.505964
AE003852	1546250	39.56	16.68	43.226	36.526	16.614	-0.53019	-0.91681	2.085503	1.461367	-0.1331
AE003852	1546750	56.434	25.62	33.506	18.842	17.942	1.082244	0.320704	0.814082	-0.98601	0.082728
AE003852	1547250	67.458	33.578	21.362	23.964	14.042	2.135253	1.422177	-0.77414	-0.27844	-0.55633
AE003852	1547750	48.208	26.31	20.196	21.466	18.958	0.293236	0.414405	-0.9276	-0.62501	0.246206
AE003852	1548250	43.628	25.198	27.15	28.046	26.008	-0.14593	0.259419	-0.01981	0.28425	1.397702
AE003852	1548750	36.436	19.396	34.116	26.126	22.188	-0.83487	-0.54527	0.889544	0.017639	0.771721
AE003852	1549250	48.752	24.358	33.876	21.152	18.308	0.341693	0.141171	0.857112	-0.67146	0.135929
AE003852	1549750	53.906	33.18	33.546	27.132	22.222	0.833369	1.362334	0.812917	0.154802	0.774621
AE003852	1550250	49.414	23.908	36.556	17.266	22.372	0.402623	0.07695	1.205244	-1.21104	0.79782
AE003852	1550750	50.524	26.042	21.08	24.102	22.034	0.507581	0.37163	-0.81846	-0.26637	0.74122
AE003852	1551250	41.782	25.028	33.458	18.52	26.822	-0.32958	0.230219	0.79822	-1.03957	1.52283
AE003852	1551750	37.448	26.582	27.666	17.29	22.962	-0.74522	0.444552	0.040169	-1.21073	0.890309

AE003852	1552250	41.996	25.628	22.896	28.258	19.69	-0.31149	0.311454	-0.58431	0.305559	0.353938
AE003852	1552750	44.566	20.124	20.722	26.082	14.966	-0.06692	-0.45195	-0.86951	0.003533	-0.41987
AE003852	1553250	40.97	14.764	29.646	17.534	17.412	-0.41198	-1.19541	0.295748	-1.17998	-0.02122
AE003852	1553750	34.264	23.908	25.986	23.164	27.222	-1.05445	0.070358	-0.18366	-0.40214	1.581591
AE003852	1554250	43.92	28.594	26.788	26.802	22.608	-0.13226	0.718564	-0.07991	0.100129	0.825774
AE003852	1554750	43.692	28.952	30.526	18.556	18.152	-0.15525	0.767216	0.407564	-1.04161	0.095794
AE003852	1555250	49.01	21.906	28.738	32.388	18.48	0.352109	-0.2098	0.172815	0.870881	0.148099
AE003852	1555750	47.718	20.402	27.98	28.994	14.75	0.22737	-0.41909	0.072683	0.400359	-0.46316
AE003852	1556250	42.84	17.542	31.172	21.168	23.326	-0.24029	-0.81623	0.488796	-0.68328	0.937864
AE003852	1556750	47.016	25.758	29.206	23.486	16.732	0.157864	0.320987	0.230784	-0.36361	-0.14172
AE003852	1557250	50.396	21.274	28.63	25.104	20.944	0.479897	-0.30112	0.154439	-0.14078	0.545697
AE003852	1557750	55.108	20.02	31.184	28.342	28.486	0.929306	-0.47578	0.487168	0.306153	1.777645
AE003852	1558250	56.566	33.254	33.204	34.688	20.936	1.067543	1.356577	0.750107	1.183044	0.54173
AE003852	1558750	49.55	25.21	27.988	33.698	19.416	0.395432	0.241307	0.067336	1.045087	0.291848
AE003852	1559250	42.906	27.53	26.304	28.834	19.412	-0.24111	0.561753	-0.15382	0.371208	0.289864
AE003852	1559750	44.012	25.616	20.948	33.588	20.856	-0.13653	0.295666	-0.85489	1.027865	0.524659
AE003852	1560250	35.256	21.03	24.534	25.262	20.598	-0.97503	-0.34057	-0.38728	-0.12494	0.481141
AE003852	1560750	36.354	26.594	16.692	23.064	12.118	-0.87122	0.429264	-1.41326	-0.43001	-0.90685
AE003852	1561250	30.044	19.808	29.464	20.058	14.18	-1.47582	-0.51174	0.254915	-0.84686	-0.571
AE003852	1561750	37.912	19.55	34.006	16.202	19.884	-0.72461	-0.54842	0.847466	-1.38129	0.360398
AE003852	1562250	39.94	26.572	30.14	26.212	22.352	-0.53186	0.423392	0.341133	0.002472	0.762639
AE003852	1562750	49.468	24.764	27.152	32.98	18.126	0.378087	0.171989	-0.05045	0.937741	0.070269
AE003852	1563250	51.01	19.972	27.724	29.738	21.336	0.524356	-0.49278	0.023243	0.488247	0.593842
AE003852	1563750	40.008	20.286	27.212	36.34	26.458	-0.52893	-0.45023	-0.04474	1.400553	1.430069
AE003852	1564250	31.494	17.648	16.33	45.86	19.428	-1.34429	-0.81661	-1.46803	2.716529	0.279185
AE003852	1564750	53.948	29.372	28.816	41.376	29.992	0.801746	0.806565	0.162766	2.095218	2.005293
AE003852	1565250	44.844	26.096	21.234	19.704	16.664	-0.07003	0.351802	-0.82923	-0.90385	-0.17545
AE003852	1565750	13.556	11.048	5.496	5.39	3.8	-3.06322	-1.73373	-2.88717	-2.88502	-2.28031
AE003852	1566250	9.164	7.644	5.652	10.666	4.002	-3.4844	-2.20622	-2.86785	-2.15615	-2.24861
AE003852	1566750	18.722	13.884	7.226	19.82	16.868	-2.57158	-1.34274	-2.6632	-0.89081	-0.14608
AE003852	1567250	42.1	26.796	25.808	19.052	17.976	-0.33719	0.445006	-0.23569	-0.99805	0.033774
AE003852	1567750	57.438	29.886	30.472	15.068	15.406	1.128358	0.872119	0.372804	-1.55019	-0.38781
AE003852	1568250	60.812	23.86	33.16	19.36	25.606	1.449817	0.036401	0.723047	-0.95745	1.278782
AE003852	1568750	49.098	29.48	37.164	23.062	27.178	0.328448	0.813993	1.245284	-0.44632	1.534508
AE003852	1569250	44.35	23.482	22.082	30.438	25.732	-0.12678	-0.01785	-0.72692	0.573055	1.296727
AE003852	1569750	38.75	23.724	21.648	37.312	15.83	-0.66348	0.014736	-0.78471	1.522989	-0.32379
AE003852	1570250	49.966	21.694	24.138	19.676	19.322	0.407889	-0.26742	-0.46035	-0.91774	0.245896

AE003852	1570750	42.876	16.432	28.326	30.944	16.974	-0.2713	-0.9973	0.08594	0.640047	-0.13938
AE003852	1571250	51.864	19.686	23.028	24.376	16.808	0.587014	-0.54747	-0.60755	-0.26956	-0.16786
AE003852	1571750	29.368	9.17	17.162	22.714	10.194	-1.56541	-2.00518	-1.37527	-0.50048	-1.25071
AE003852	1572250	49.232	32.18	45.482	52.022	33.324	0.332947	1.18143	2.324947	3.55293	2.530202
AE003852	1572750	70.308	49.53	55.842	73.64	31.642	2.347204	3.58397	3.677883	6.54252	2.25383
AE003852	1573250	64.786	44.96	63.832	71.952	37.282	1.817961	2.94995	4.72107	6.308003	3.17476
AE003852	1573750	39.44	26.644	35.204	33.432	30.068	-0.607	0.411707	0.978468	0.978218	1.993788
AE003852	1574250	43.762	21.264	19.334	16.678	17.554	-0.19489	-0.33452	-1.09673	-1.3405	-0.05385
AE003852	1574750	21.77	4.932	10.014	3.18	10.548	-2.29912	-2.59792	-2.31587	-3.20879	-1.20081
AE003852	1575250	8.612	2.678	5.03	1.778	5.698	-3.55857	-2.91111	-2.96832	-3.40374	-1.99521
AE003852	1575750	8.578	6.798	2.964	0.966	1.36	-3.56301	-2.34131	-3.2394	-3.51708	-2.7059
AE003852	1576250	17.22	9.544	4.588	1.632	1.896	-2.73778	-1.96185	-3.02822	-3.42595	-2.61958
AE003852	1576750	16.4	7.402	8.38	2.682	2.418	-2.81739	-2.25952	-2.53369	-3.28169	-2.53555
AE003852	1577250	13.676	3.252	7.196	1.79	6.372	-3.07906	-2.83536	-2.6895	-3.40609	-1.89032
AE003852	1577750	17.64	4.286	5.308	6.044	4.904	-2.70119	-2.69306	-2.93731	-2.8186	-2.1317
AE003852	1578250	34.916	22.18	18.472	15.498	14.246	-1.05031	-0.21516	-1.21791	-1.51176	-0.60541
AE003852	1578750	46.55	30.71	30.188	21.544	20.948	0.06103	0.96555	0.312247	-0.67637	0.489178
AE003852	1579250	49.334	40.42	26.338	32.656	24.66	0.326069	2.309727	-0.19199	0.859841	1.09484
AE003852	1579750	85.21	40.868	48.152	52.898	40.19	3.755613	2.370847	2.657921	3.659078	3.632995
AE003852	1580250	93.836	43.388	64.502	47.592	46.004	4.579307	2.718998	4.79372	2.924054	4.582378
AE003852	1580750	91.866	56.012	57.002	59.024	41.252	4.389733	4.466849	3.812441	4.504533	3.803995
AE003852	1581250	93.662	56.048	58.306	72.658	46.54	4.560292	4.470895	3.981802	6.389632	4.667366
AE003852	1581750	92.806	48.248	56.928	56.352	37.25	4.477247	3.389425	3.800639	4.132889	3.146924
AE003852	1582250	92.302	42.794	50.264	51.824	27.158	4.427863	2.632945	2.928622	3.505491	1.495338
AE003852	1582750	71.814	39.232	46.9	26.158	30.56	2.467459	2.138563	2.487898	-0.0461	2.050308
AE003852	1583250	52.516	15.746	26.3	24.89	19.33	0.620851	-1.11588	-0.20548	-0.22251	0.212635
AE003852	1583750	30.168	8.95	19.086	12.364	10.898	-1.51742	-2.05826	-1.14938	-1.95634	-1.16751
AE003852	1584250	31.488	19.148	30.89	20.09	18.882	-1.39238	-0.64648	0.392275	-0.88854	0.136718
AE003852	1584750	20.336	21.568	28.804	34.656	13.564	-2.46001	-0.31218	0.118579	1.125491	-0.73422
AE003852	1585250	38.584	29.294	19.674	32.27	15.596	-0.71618	0.757151	-1.07573	0.794414	-0.40327
AE003852	1585750	54.892	18.584	23.324	26.198	13.154	0.842122	-0.72744	-0.59976	-0.04658	-0.80392
AE003852	1586250	60.154	34.488	38.374	21.23	21.736	1.344126	1.474789	1.366134	-0.73484	0.598089
AE003852	1586750	46.06	35.19	35.666	19.59	14.648	-0.00484	1.571095	1.011147	-0.96272	-0.56228
AE003852	1587250	57.366	37.752	39.76	26.064	14.09	1.075141	1.925065	1.545147	-0.06812	-0.65485
AE003852	1587750	43.668	26.922	35.312	27.502	20.794	-0.23595	0.423852	0.96275	0.129806	0.440063
AE003852	1588250	37.79	23.37	31.278	38.802	13.216	-0.79924	-0.06915	0.434461	1.692024	-0.80043
AE003852	1588750	48.794	25.884	15.836	27.986	22.182	0.251858	0.278175	-1.5848	0.194757	0.664372

AE003852	1589250	52.52	25.236	38.696	32.984	24.648	0.606978	0.187467	1.401825	0.885168	1.066285
AE003852	1589750	44.244	15.32	29.956	38.68	18.796	-0.18562	-1.18713	0.258485	1.67214	0.10803
AE003852	1590250	49.76	20.136	34.076	29.476	21.904	0.34067	-0.52092	0.795883	0.397874	0.614924
AE003852	1590750	52.334	33.518	33.584	28.272	21.812	0.585627	1.33194	0.730516	0.230312	0.59855
AE003852	1591250	58.664	37.554	33.454	39.212	28.052	1.189761	1.890102	0.71246	1.742729	1.617593
AE003852	1591750	44.688	37.374	29.592	24.006	23.768	-0.14792	1.864226	0.20665	-0.36184	0.915739
AE003852	1592250	33.938	29.88	29.63	22.968	22.884	-1.1771	0.825146	0.210551	-0.50644	0.769856
AE003852	1592750	31.178	20.458	26.018	22.212	28.774	-1.44222	-0.48102	-0.26258	-0.61203	1.731667
AE003852	1593250	32.756	22.606	27.106	17.826	21.308	-1.29251	-0.1844	-0.12145	-1.21978	0.509488
AE003852	1593750	47.422	25.812	22.824	36.364	16.982	0.108777	0.258784	-0.68216	1.34373	-0.19923
AE003852	1594250	52.002	21.268	30.34	25.482	17.168	0.545563	-0.37163	0.299083	-0.16267	-0.17015
AE003852	1594750	47.976	26.856	36.874	25.82	16.336	0.159378	0.401526	1.151979	-0.11691	-0.30753
AE003852	1595250	40.786	22.918	32.69	32.834	16.394	-0.52937	-0.14494	0.604085	0.852389	-0.29937
AE003852	1595750	39.912	22.434	29.83	33.52	11.348	-0.61414	-0.21293	0.229232	0.946287	-1.12583
AE003852	1596250	29.41	22.538	35.026	38.248	20.78	-1.61961	-0.19947	0.907258	1.599347	0.415171
AE003852	1596750	37.544	26.842	40.208	35.336	21.42	-0.84296	0.39582	1.583454	1.195504	0.518495
AE003852	1597250	57.266	23.37	40.168	30.78	22.37	1.041818	-0.0861	1.577161	0.564233	0.67251
AE003852	1597750	59.082	18.97	36.612	27.986	20.834	1.214289	-0.69657	1.111344	0.176714	0.420012
AE003852	1598250	48.196	25.71	28.052	23.83	14.298	0.172101	0.236179	-0.00847	-0.39922	-0.65009
AE003852	1598750	53.526	32.454	25.018	24.708	13.99	0.680607	1.169479	-0.40607	-0.27876	-0.70179
AE003852	1599250	52.89	30.108	26.18	26.488	13.708	0.6186	0.843547	-0.25526	-0.03352	-0.74923
AE003852	1599750	52.394	24.44	30.714	19.312	8.988	0.569981	0.057422	0.336243	-1.02724	-1.52238
AE003852	1600250	56.024	29.504	34.928	24.756	15.472	0.915921	0.757993	0.885926	-0.27513	-0.46344
AE003852	1600750	50.834	33.264	34.97	42.044	12.32	0.418426	1.277921	0.89035	2.115457	-0.98019
AE003852	1601250	44.14	31.704	34.986	29.818	16.42	-0.22289	1.060873	0.891376	0.423133	-0.31108
AE003852	1601750	44.386	24.644	33.344	25.138	20.102	-0.20056	0.081916	0.675709	-0.22529	0.289678
AE003852	1602250	41.612	27.328	20.41	30.464	17.17	-0.46701	0.452786	-1.01577	0.510495	-0.1911
AE003852	1602750	45.404	23.614	21.782	31.344	17.542	-0.10558	-0.06265	-0.83752	0.63123	-0.1316
AE003852	1603250	46.67	21.414	31.086	30.142	17.214	0.014293	-0.36836	0.377403	0.463945	-0.18656
AE003852	1603750	59.832	19.484	27.782	40.114	19.004	1.271754	-0.63666	-0.05548	1.84245	0.104813
AE003852	1604250	56.928	20.804	35.242	30.138	17.956	0.992864	-0.45474	0.918441	0.461387	-0.06789
AE003852	1604750	42.934	19.304	38.9	28.992	13.774	-0.34654	-0.66348	1.395458	0.301849	-0.75306
AE003852	1605250	48.506	21.57	35.086	27.93	16.338	0.185113	-0.35051	0.895922	0.153932	-0.33512
AE003852	1605750	49.068	15.87	22.08	26.534	17.658	0.237668	-1.14107	-0.80496	-0.04019	-0.1206
AE003852	1606250	44.382	20.322	26.104	26.51	11.818	-0.21163	-0.52528	-0.28011	-0.04451	-1.0769
AE003852	1606750	51.38	24.846	27.176	38.748	13.38	0.456383	0.100482	-0.14107	1.647466	-0.82281
AE003852	1607250	43.526	27.168	30.196	36.282	30.224	-0.29586	0.421205	0.252561	1.305322	1.930214

AE003852	1607750	53.15	30.422	32.484	24.996	23.468	0.623267	0.871037	0.550526	-0.25696	0.824135
AE003852	1608250	55.72	19.972	34.02	19.356	22.754	0.867842	-0.57753	0.750208	-1.03819	0.706051
AE003852	1608750	43.506	21.808	22.752	27.456	16.282	-0.30134	-0.32414	-0.72353	0.081343	-0.35359
AE003852	1609250	51.998	25.41	26.734	15.178	21.452	0.50954	0.173904	-0.20417	-1.61817	0.490488
AE003852	1609750	47.944	26.362	25.648	18.996	21.562	0.120678	0.304842	-0.34717	-1.091	0.507145
AE003852	1610250	38.18	23.372	22.02	18.466	17.85	-0.81422	-0.1103	-0.82239	-1.16532	-0.10118
AE003852	1610750	39.006	24.712	23.872	17.148	15.896	-0.73642	0.074386	-0.58141	-1.34866	-0.42203
AE003852	1611250	41.622	23.672	21.77	17.414	16.444	-0.48744	-0.07063	-0.8572	-1.31286	-0.33375
AE003852	1611750	55.65	22.68	28.81	16.922	13.968	0.852832	-0.20899	0.061829	-1.38192	-0.73995
AE003852	1612250	54.184	28.412	26.906	26.998	10.56	0.711454	0.584119	-0.18808	0.010967	-1.29856
AE003852	1612750	55.96	22.234	21.784	23.45	15.232	0.8801	-0.27266	-0.85857	-0.48086	-0.53592
AE003852	1613250	60.616	29.194	29.188	25.364	14.118	1.324154	0.690565	0.108035	-0.21708	-0.71941
AE003852	1613750	62.402	22.824	25.504	36.014	11.312	1.493757	-0.19281	-0.37451	1.255216	-1.17958
AE003852	1614250	62.272	12.056	32.016	33.374	18.478	1.480137	-1.68543	0.47551	0.889001	-0.00912
AE003852	1614750	62.512	12.822	29.368	33.838	23.712	1.5019	-1.58026	0.128364	0.952188	0.84542
AE003852	1615250	45.252	19.532	25.626	21.33	14.994	-0.14982	-0.65167	-0.36176	-0.77915	-0.58149
AE003852	1615750	39.578	31.028	20.408	17.136	25.356	-0.6936	0.939919	-1.04479	-1.36034	1.11159
AE003852	1616250	45.878	38.262	22.9	23.22	17.202	-0.09233	1.941098	-0.72017	-0.51969	-0.22309
AE003852	1616750	53.202	36.354	23.352	27.534	21.046	0.606856	1.675842	-0.66216	0.076095	0.404154
AE003852	1617250	43.42	24.662	25.702	23.858	19.002	-0.32976	0.055217	-0.35609	-0.43344	0.068587
AE003852	1617750	48.458	25.488	32.894	19.128	15.628	0.150823	0.168701	0.582802	-1.08878	-0.48446
AE003852	1618250	48.228	30.698	33.024	21.822	13.156	0.127641	0.889496	0.598726	-0.7171	-0.89002
AE003852	1618750	41.158	25.154	31.252	23.302	16.51	-0.54963	0.120549	0.366069	-0.51336	-0.3429
AE003852	1619250	38.298	38.754	27.928	26.502	22.59	-0.82432	2.003604	-0.06943	-0.07168	0.649983
AE003852	1619750	41.006	31.144	21.258	17.024	20.144	-0.56655	0.948455	-0.94223	-1.38385	0.24868
AE003852	1620250	37.188	28.688	16.66	13.428	22.45	-0.93284	0.607286	-1.54423	-1.88232	0.62443
AE003852	1620750	40.816	27.006	27.186	23.812	21.594	-0.58709	0.373338	-0.1696	-0.44682	0.483127
AE003852	1621250	51.322	27.57	31.466	28.042	16.786	0.416384	0.450527	0.388711	0.137349	-0.30441
AE003852	1621750	48.876	29.586	31.228	25.25	17.06	0.181291	0.72886	0.35654	-0.24989	-0.26094
AE003852	1622250	42.888	24.892	36.096	33.892	14.154	-0.39251	0.077663	0.991698	0.944622	-0.73746
AE003852	1622750	44.392	22.334	35.786	16.242	12.88	-0.24988	-0.27764	0.950117	-1.49805	-0.94712
AE003852	1623250	42.448	20.088	36.054	32.094	18.89	-0.43697	-0.58972	0.984078	0.693886	0.034317
AE003852	1623750	43.696	23.504	32.268	33.74	21.23	-0.31881	-0.11744	0.488201	0.920588	0.415627
AE003852	1624250	51.936	26.82	22.854	37.828	19.582	0.467971	0.34098	-0.74323	1.485111	0.144815
AE003852	1624750	49.578	18.166	18.61	26.276	16.734	0.241294	-0.85879	-1.29896	-0.11397	-0.32222
AE003852	1625250	44.294	25.94	24.578	20.468	13.982	-0.26519	0.217191	-0.52004	-0.91844	-0.77356
AE003852	1625750	46.352	32.898	27.036	23.292	14.076	-0.06958	1.180135	-0.19986	-0.52878	-0.75952

AE003852	1626250	45.194	24.064	32.06	18.022	10.77	-0.1815	-0.04457	0.455689	-1.25882	-1.30145
AE003852	1626750	51.708	23.152	31.474	14.08	11.476	0.440228	-0.17185	0.378036	-1.80515	-1.18734
AE003852	1627250	40.516	22.144	20.704	14.048	16.504	-0.63122	-0.31243	-1.03061	-1.81058	-0.36648
AE003852	1627750	32.214	23.048	23.11	22.216	22.378	-1.42631	-0.18814	-0.71723	-0.68164	0.592713
AE003852	1628250	30.36	33.572	26.278	28.256	18.542	-1.60479	1.268796	-0.30425	0.15292	-0.03588
AE003852	1628750	41.984	32.064	27.864	19.922	19.664	-0.49441	1.058952	-0.09803	-1.00099	0.146257
AE003852	1629250	49.136	25.994	25.208	23.658	18.868	0.188334	0.217138	-0.44623	-0.48516	0.014765
AE003852	1629750	53.962	23.632	20.462	20.64	17.448	0.648645	-0.11101	-1.06757	-0.90367	-0.21877
AE003852	1630250	53.816	20.496	18.31	23.46	14.948	0.633495	-0.54638	-1.34989	-0.51456	-0.6289
AE003852	1630750	49.438	25.886	21.348	28.666	21.662	0.21365	0.199352	-0.95391	0.204627	0.467654
AE003852	1631250	50.25	32.596	25.784	27.97	23.386	0.290112	1.127941	-0.37521	0.107341	0.748235
AE003852	1631750	48.6	27.64	28.736	23.376	24.094	0.131138	0.440449	0.009539	-0.52919	0.862679
AE003852	1632250	40.914	19.79	32.68	24.964	20.098	-0.60504	-0.64795	0.523934	-0.31051	0.207918
AE003852	1632750	42.224	25.404	37.648	33.074	23.06	-0.48096	0.128814	1.172162	0.810412	0.690938
AE003852	1633250	53.962	27.322	34.054	39.948	21.534	0.640329	0.393572	0.701379	1.760345	0.440075
AE003852	1633750	59.36	30.616	25.182	35.046	19.22	1.155338	0.848945	-0.45921	1.08121	0.060358
AE003852	1634250	48.75	31.814	23.072	21.47	18.002	0.139542	1.013961	-0.73605	-0.79787	-0.14014
AE003852	1634750	61.384	23.75	33.984	12.556	15.856	1.346512	-0.10408	0.689033	-2.03202	-0.49239
AE003852	1635250	57.152	19.444	28.212	9.592	21.136	0.940629	-0.70153	-0.0664	-2.44306	0.369676
AE003852	1635750	43.468	17.062	23.146	17.078	18.558	-0.36913	-1.03245	-0.72957	-1.40846	-0.05321
AE003852	1636250	38.198	23.42	26.804	26.31	11.15	-0.87427	-0.15262	-0.25255	-0.13232	-1.26591
AE003852	1636750	45.008	23.042	31.282	19.86	14.524	-0.22424	-0.20592	0.331634	-1.02561	-0.71552
AE003852	1637250	43.906	19.376	32.122	25.038	17.58	-0.33081	-0.71471	0.440352	-0.31029	-0.21712
AE003852	1637750	45.276	17.182	25.748	24.772	19.574	-0.20098	-1.01959	-0.39376	-0.34809	0.107607
AE003852	1638250	49.308	23.004	35.604	25.98	13.856	0.183398	-0.21401	0.893301	-0.18198	-0.82874
AE003852	1638750	39.56	25.056	34.862	36.754	15.672	-0.74997	0.069306	0.79526	1.307467	-0.53311
AE003852	1639250	44.556	24.966	26.586	36.124	15.204	-0.2734	0.055897	-0.28744	1.219312	-0.61097
AE003852	1639750	45.812	22.068	22.382	27.87	14.576	-0.15448	-0.3465	-0.83794	0.076467	-0.71499
AE003852	1640250	36.364	15.852	21.354	14.884	12.108	-1.05916	-1.20854	-0.97336	-1.72099	-1.11989
AE003852	1640750	35.92	17.678	24.812	20.822	17.656	-1.1028	-0.95653	-0.52249	-0.90054	-0.214
AE003852	1641250	45.466	16.066	29.05	21.71	13.17	-0.19113	-1.18078	0.030333	-0.7787	-0.94889
AE003852	1641750	40.126	23.934	29.388	28.056	13.93	-0.70297	-0.09177	0.073443	0.098188	-0.82594
AE003852	1642250	53.738	24.054	31.826	23.926	20.314	0.597524	-0.07609	0.391012	-0.47415	0.216647
AE003852	1642750	52.052	22.518	31.716	25.678	17.634	0.435108	-0.28981	0.37557	-0.23278	-0.22292
AE003852	1643250	39.322	33.254	29.88	33.156	15.388	-0.78342	1.196493	0.134548	0.800705	-0.59152
AE003852	1643750	53.08	28.65	26.69	29.878	15	0.531037	0.557763	-0.28343	0.346231	-0.65629
AE003852	1644250	65.512	18.22	32.98	28.03	16.87	1.71869	-0.88804	0.537572	0.08958	-0.35184

AE003852	1644750	59.734	18.062	32.272	27.234	13.47	1.164967	-0.91087	0.443974	-0.02154	-0.90914
AE003852	1645250	41.574	17.054	32.798	25.444	15.42	-0.57282	-1.05145	0.511655	-0.27017	-0.5916
AE003852	1645750	36.69	27.602	26.154	25.094	19.564	-1.04105	0.408818	-0.35775	-0.31959	0.084699
AE003852	1646250	38.396	17.762	22.254	29.464	24.678	-0.8791	-0.95525	-0.86852	0.283947	0.919617
AE003852	1646750	39.936	19.456	26.584	22.256	15.27	-0.73302	-0.72152	-0.30368	-0.7142	-0.62012
AE003852	1647250	44.534	19.776	35.238	20.246	16.264	-0.29451	-0.67814	0.826289	-0.99326	-0.45891
AE003852	1647750	52.08	26.018	28.27	19.164	20.626	0.425906	0.185621	-0.08546	-1.14394	0.25304
AE003852	1648250	59.342	30.472	33.902	26.236	18.664	1.119165	0.801689	0.649549	-0.16662	-0.06912
AE003852	1648750	65.656	31.9	26.888	31.096	18.176	1.721769	0.998567	-0.26821	0.504703	-0.15025
AE003852	1649250	71.83	26.22	30.274	32.136	15.708	2.310985	0.210779	0.173257	0.647572	-0.55515
AE003852	1649750	46.914	27.588	26.26	38.076	16.81	-0.07286	0.399345	-0.35242	1.468298	-0.37628
AE003852	1650250	44.862	25.336	32.354	38.6	14.578	-0.27027	0.086436	0.442971	1.539785	-0.74258
AE003852	1650750	43.89	25.026	30.016	25.49	20.486	-0.36441	0.04255	0.136341	-0.27483	0.222169
AE003852	1651250	48.608	24.156	17.686	20.106	23.33	0.085571	-0.07891	-1.47619	-1.02064	0.685894
AE003852	1651750	44.494	24.456	27.932	23.75	17.45	-0.30903	-0.03829	-0.13816	-0.51754	-0.27694
AE003852	1652250	36.424	19.194	40.478	31.568	15.614	-1.08193	-0.76818	1.500476	0.562982	-0.5785
AE003852	1652750	39.508	21.03	35.974	32.142	8.916	-0.7882	-0.51478	0.91076	0.641385	-1.67509
AE003852	1653250	43.836	21.44	25.622	27.36	12.284	-0.37552	-0.45892	-0.44326	-0.02115	-1.12568
AE003852	1653750	39.302	25.622	29.792	34.068	20.752	-0.81028	0.119464	0.100672	0.90582	0.257688
AE003852	1654250	45.812	22.046	28.634	24.424	16.398	-0.18893	-0.37686	-0.05174	-0.42932	-0.45561
AE003852	1654750	43.718	36.246	22.85	18.556	17.746	-0.39036	1.589314	-0.80874	-1.24209	-0.23652
AE003852	1655250	40.52	30.82	21.214	28.966	17.984	-0.69737	0.836713	-1.02363	0.197012	-0.19893
AE003852	1655750	34.152	23.678	17.254	28.222	15.24	-1.30751	-0.1536	-1.54224	0.093086	-0.64896
AE003852	1656250	46.376	22.26	21.474	37.244	15.426	-0.13975	-0.35098	-0.99178	1.34017	-0.61987
AE003852	1656750	51.176	25.162	31.344	33.784	14.302	0.318075	0.05009	0.297118	0.860517	-0.805
AE003852	1657250	48.958	26.834	27.338	27.474	18.77	0.104785	0.280769	-0.22751	-0.0134	-0.07572
AE003852	1657750	48.716	27.098	29.168	17.478	24.04	0.080455	0.316399	0.010595	-1.39723	0.784709
AE003852	1658250	47.894	21.368	43.69	25.994	19.686	0.000661	-0.47831	1.907483	-0.22014	0.071408
AE003852	1658750	52.954	32.81	28.68	27.758	18.212	0.483348	1.105795	-0.05532	0.022883	-0.17095
AE003852	1659250	55.656	28.07	29.89	23.32	14.498	0.740546	0.448225	0.101761	-0.59206	-0.7796
AE003852	1659750	55.564	34.99	30.446	28.078	22.346	0.73056	1.405905	0.173361	0.065146	0.502386
AE003852	1660250	57.352	27.532	29.672	31.664	17.438	0.900354	0.371813	0.071138	0.560224	-0.30151
AE003852	1660750	50.794	18.874	32.528	29.524	21.194	0.272041	-0.82851	0.443338	0.263178	0.31135
AE003852	1661250	60.512	26.64	28.384	24.956	19.348	1.200161	0.246361	-0.09933	-0.36975	0.00816
AE003852	1661750	41.498	27.462	22.534	24.66	16.466	-0.61929	0.359291	-0.86496	-0.4117	-0.46444
AE003852	1662250	33.322	20.656	23.458	25.896	14.64	-1.40233	-0.58448	-0.74526	-0.24172	-0.76436
AE003852	1662750	43.838	30.452	23.32	30.214	19.232	-0.3979	0.77161	-0.76436	0.354622	-0.0148

AE003852	1663250	48.086	25.634	29.998	25.968	14.874	0.007142	0.103234	0.107352	-0.23376	-0.72875
AE003852	1663750	40.628	22.548	28.636	26.796	13.768	-0.70724	-0.32521	-0.07172	-0.12022	-0.91094
AE003852	1664250	41.026	22.878	22.65	17.356	18.52	-0.67036	-0.28044	-0.85513	-1.42714	-0.13521
AE003852	1664750	31.2	28.364	23.64	30.288	17.518	-1.61119	0.478594	-0.7268	0.360849	-0.30039
AE003852	1665250	28.312	26.372	25.846	29.736	16.018	-1.88855	0.201702	-0.43956	0.283484	-0.547
AE003852	1665750	38.226	26.706	31.914	16.204	16.31	-0.94169	0.247029	0.352436	-1.58951	-0.50058
AE003852	1666250	43.246	34.87	31.978	34.186	14.124	-0.46282	1.37704	0.359735	0.897084	-0.85937
AE003852	1666750	40.99	24.63	20.7	32.848	15.564	-0.67975	-0.04244	-1.11531	0.710985	-0.62523
AE003852	1667250	40.656	23.934	18.338	28.636	19.938	-0.71287	-0.1398	-1.42508	0.127303	0.088683
AE003852	1667750	42.154	21.898	23.856	24.3	22.136	-0.57081	-0.42279	-0.70497	-0.47353	0.446773
AE003852	1668250	41.51	16.552	17.32	30.046	16.452	-0.63358	-1.1643	-1.56025	0.320355	-0.48401
AE003852	1668750	38.54	17.72	15.584	21.744	19.392	-0.91879	-1.00344	-1.78821	-0.82913	-0.00459
AE003852	1669250	44.368	20.502	26.052	22.97	23.736	-0.36266	-0.619	-0.42116	-0.66053	0.704418
AE003852	1669750	53.262	27.826	35.48	29.724	33.17	0.486666	0.394649	0.809971	0.272803	2.245748
AE003852	1670250	41.018	21.078	30.168	25.66	27.224	-0.68539	-0.54109	0.114654	-0.29041	1.272121
AE003852	1670750	39.026	27.396	32.194	23.94	17.2	-0.87706	0.333198	0.378376	-0.52935	-0.36835
AE003852	1671250	42.56	34.186	18.104	28.554	17.136	-0.5403	1.272869	-1.46418	0.10794	-0.38014
AE003852	1671750	40.074	19.872	20.002	27.064	22.124	-0.77922	-0.71098	-1.21719	-0.09919	0.434174
AE003852	1672250	41.1	19.58	18.166	28.434	22.06	-0.6823	-0.75237	-1.45821	0.089335	0.422379
AE003852	1672750	43.346	17.824	19.846	18.424	23.926	-0.4687	-0.99657	-1.23971	-1.29643	0.72618
AE003852	1673250	51.934	33.134	25.284	25.718	17.708	0.351356	1.12337	-0.53005	-0.2884	-0.29192
AE003852	1673750	45.024	23.1	36.29	27.234	21.048	-0.31062	-0.26757	0.90731	-0.07968	0.252906
AE003852	1674250	47.116	15.292	51.36	21.02	18.578	-0.11175	-1.35015	2.875819	-0.94031	-0.15232
AE003852	1674750	35.69	20.906	29.87	29.748	10.574	-1.20558	-0.57339	0.066117	0.266099	-1.46247
AE003852	1675250	37.314	23.868	32.538	25.96	9.31	-1.05147	-0.16401	0.413746	-0.25893	-1.67049
AE003852	1675750	39.492	24.636	38.192	22.418	15.176	-0.84438	-0.05856	1.15163	-0.74992	-0.71261
AE003852	1676250	44.438	23.932	26.816	18.022	23.194	-0.3726	-0.15703	-0.33622	-1.35906	0.597175
AE003852	1676750	34.62	27.172	26.364	23.336	23.922	-1.31265	0.290867	-0.39636	-0.62493	0.714889
AE003852	1677250	46.57	28.286	31.912	26.78	23.492	-0.17109	0.444247	0.327669	-0.1495	0.643245
AE003852	1677750	43.296	16.572	32.804	29.456	25.482	-0.48537	-1.17943	0.443184	0.21969	0.967323
AE003852	1678250	46.202	22.494	26.992	28.214	19.896	-0.20866	-0.36	-0.31748	0.046872	0.052564
AE003852	1678750	45.982	35.306	37.422	14.084	20.17	-0.23089	1.413897	1.044603	-1.90885	0.096039
AE003852	1679250	36.634	25.298	28.176	16.106	19.09	-1.126	0.026555	-0.16487	-1.63013	-0.08189
AE003852	1679750	46.326	23.272	21.312	33.514	21.984	-0.20037	-0.25505	-1.06303	0.777057	0.390007
AE003852	1680250	48.722	16.402	25.434	33.192	20.858	0.027569	-1.20768	-0.52537	0.731509	0.204553
AE003852	1680750	41.382	20.438	31.168	24.294	19.618	-0.67552	-0.64952	0.222974	-0.50043	0.000457
AE003852	1681250	36.996	23.378	23.004	17.484	12.786	-1.09614	-0.24319	-0.84509	-1.44351	-1.11805

AE003852	1681750	42.962	33.992	26.09	35.404	13.18	-0.52681	1.22622	-0.44283	1.034506	-1.05495
AE003852	1682250	39.05	21.048	21.054	33.29	13.18	-0.90209	-0.56784	-1.10207	0.741057	-1.05628
AE003852	1682750	35.006	22.554	22.476	31.264	18.36	-1.29	-0.36016	-0.91729	0.459782	-0.21057
AE003852	1683250	40.978	18.22	21.316	27.456	17.71	-0.7201	-0.96149	-1.06996	-0.06801	-0.31819
AE003852	1683750	42.54	23.54	26.72	27.98	15.36	-0.57192	-0.22545	-0.36475	0.003475	-0.70379
AE003852	1684250	47.26	15.566	25.438	20.468	16.9	-0.12174	-1.33103	-0.53337	-1.03672	-0.4533
AE003852	1684750	50.418	20.392	24.278	21.232	22.288	0.179061	-0.66343	-0.68604	-0.93204	0.426422
AE003852	1685250	56.644	27.588	33.916	23.096	16.25	0.77325	0.332487	0.572535	-0.67518	-0.56225
AE003852	1685750	40.764	29.212	33.714	23.702	15.53	-0.7465	0.556517	0.545069	-0.59235	-0.68131
AE003852	1686250	37.932	32.318	23.598	28.432	22.858	-1.01851	0.985847	-0.77811	0.060992	0.51564
AE003852	1686750	41.378	25.908	30.622	24.378	22.138	-0.69016	0.096933	0.138829	-0.50083	0.396575
AE003852	1687250	45.452	20.054	30.15	22.456	14.45	-0.30176	-0.71496	0.076075	-0.76772	-0.86191
AE003852	1687750	46.284	29.79	25.034	23.96	9.63	-0.22339	0.63282	-0.59363	-0.56066	-1.65141
AE003852	1688250	55.608	23.512	30.98	27.074	11.648	0.667052	-0.23781	0.182421	-0.13088	-1.32275
AE003852	1688750	45.822	19.022	34.736	22.962	12.308	-0.26995	-0.86075	0.672246	-0.70073	-1.21616
AE003852	1689250	43.31	28.05	36.19	28.898	20.37	-0.51135	0.388954	0.861212	0.119443	0.100821
AE003852	1689750	45.586	25.416	23.046	26.782	16.656	-0.29489	0.023127	-0.85771	-0.17428	-0.50783
AE003852	1690250	52.694	20.28	22.836	18.96	14.572	0.383641	-0.6893	-0.88622	-1.25737	-0.84993
AE003852	1690750	53.886	15.546	22.22	15.74	12.654	0.496441	-1.34604	-0.96779	-1.70382	-1.1649
AE003852	1691250	41.116	25.002	19.206	19.876	19.148	-0.72591	-0.03705	-1.36277	-1.13265	-0.10432
AE003852	1691750	52.95	28.204	32.592	27.146	16.898	0.404558	0.405579	0.385644	-0.12794	-0.47357
AE003852	1692250	43.952	35.084	33.278	37.434	19.58	-0.45709	1.357718	0.474235	1.294282	-0.03634
AE003852	1692750	44.584	38.696	51.21	28.834	16.524	-0.39784	1.857144	2.816793	0.103572	-0.53739
AE003852	1693250	41.694	29.38	37.764	30.808	19.232	-0.67539	0.565665	1.058402	0.375649	-0.0959
AE003852	1693750	38.832	22.894	26.414	21.36	19.73	-0.95026	-0.33378	-0.42605	-0.93237	-0.0158
AE003852	1694250	42.622	15.346	21.378	12.97	26.156	-0.58902	-1.38034	-1.0853	-2.09403	1.033659
AE003852	1694750	41.27	23.756	18.356	23.202	20.188	-0.7195	-0.21625	-1.48132	-0.67956	0.056435
AE003852	1695250	31.806	24.204	24.66	22.76	23.182	-1.62571	-0.15513	-0.65849	-0.7417	0.544688
AE003852	1695750	39.454	20.58	25.806	21.358	22.93	-0.89553	-0.6581	-0.50978	-0.93666	0.502151
AE003852	1696250	41.732	14.936	31.748	21.16	19.518	-0.67888	-1.4409	0.265748	-0.96505	-0.05711
AE003852	1696750	43.482	21.228	33.214	22.112	22.618	-0.51272	-0.57022	0.456281	-0.83436	0.448473
AE003852	1697250	41.558	34.582	31.368	29.318	23.714	-0.6979	1.27876	0.213953	0.161507	0.626363
AE003852	1697750	60.206	38.822	25.82	43.812	17.938	1.084175	1.865182	-0.51221	2.165576	-0.31947
AE003852	1698250	62.208	33.504	24.202	35.982	14.39	1.274433	1.127542	-0.72474	1.081387	-0.90097
AE003852	1698750	40.462	31.088	26.076	34.688	13.78	-0.80627	0.791914	-0.48088	0.901375	-1.00205
AE003852	1699250	40.748	26.11	20.786	25.954	10.316	-0.78011	0.101374	-1.17332	-0.30787	-1.56981
AE003852	1699750	50.39	21.08	25.002	34.734	18.376	0.140744	-0.59637	-0.62338	0.905734	-0.25316

AE003852	1700250	44.862	25.426	30.328	26.278	15.07	-0.38907	0.004737	0.071637	-0.26506	-0.79509
AE003852	1700750	44.042	22.608	24.16	25.62	13.278	-0.46868	-0.38658	-0.73556	-0.35708	-1.08945
AE003852	1701250	39.982	20.642	23.65	25.284	18.368	-0.85811	-0.65987	-0.80328	-0.40457	-0.25846
AE003852	1701750	30.944	23.35	30.462	25.29	15.594	-1.72358	-0.28567	0.085954	-0.40474	-0.7134
AE003852	1702250	38.554	23.6	22.784	20.028	23.016	-0.99704	-0.25198	-0.91859	-1.13368	0.498929
AE003852	1702750	46.512	26.572	25.332	26.376	28.192	-0.23723	0.158783	-0.58664	-0.25651	1.343985
AE003852	1703250	41.042	21.388	28.47	26.152	28.236	-0.7615	-0.56029	-0.17759	-0.2885	1.349851
AE003852	1703750	46.298	29.462	33.052	25.27	24.798	-0.26007	0.557249	0.420192	-0.41152	0.786335
AE003852	1704250	57.054	27.632	31.118	27.78	26.004	0.767313	0.302799	0.166363	-0.06529	0.982212
AE003852	1704750	49.314	34.296	25.024	27.32	18.49	0.025968	1.225016	-0.63116	-0.12993	-0.24782
AE003852	1705250	37.96	30.638	27.77	29.672	16.482	-1.06097	0.717334	-0.27334	0.19444	-0.5775
AE003852	1705750	37.554	28.624	36.694	27.878	20.538	-1.10099	0.437395	0.891922	-0.05474	0.084416
AE003852	1706250	47.336	36.03	25.102	26.598	18.346	-0.16675	1.4624	-0.62416	-0.23282	-0.27535
AE003852	1706750	43.046	33.194	27.386	24.784	19.9	-0.57818	1.06859	-0.32672	-0.48476	-0.02257
AE003852	1707250	42.002	28.948	23.088	30.634	19.964	-0.6792	0.479453	-0.88951	0.323512	-0.01343
AE003852	1707750	38.568	16.056	18.456	29.78	19.51	-1.00877	-1.30741	-1.49596	0.204369	-0.089
AE003852	1708250	42.648	22.83	28.314	26.098	14.982	-0.6198	-0.36995	-0.20863	-0.30599	-0.83076
AE003852	1708750	54.458	23.506	34.756	27.118	13.614	0.508372	-0.27725	0.632242	-0.16589	-1.05578
AE003852	1709250	58.99	27.466	38.06	32.088	19.6	0.940568	0.270386	1.062993	0.520646	-0.07827
AE003852	1709750	45.772	17.654	31.678	27.56	20.804	-0.32462	-1.0898	0.227832	-0.10675	0.117276
AE003852	1710250	41.92	22.37	31.832	28.896	13.694	-0.69417	-0.43744	0.246893	0.077066	-1.04669
AE003852	1710750	51.04	25.02	35.122	31.384	16.4	0.176766	-0.07128	0.675815	0.420249	-0.60553
AE003852	1711250	51.678	26.386	38.46	39.254	15.296	0.236588	0.117008	1.111009	1.507967	-0.78739
AE003852	1711750	40.924	18.724	28.082	29.09	7.404	-0.79298	-0.94534	-0.24641	0.100896	-2.07923
AE003852	1712250	47.424	20.108	22.482	22.956	17.272	-0.17259	-0.75456	-0.97937	-0.74867	-0.46693
AE003852	1712750	58.434	22.764	30.462	36.652	21.214	0.879083	-0.38757	0.062514	1.145004	0.176342
AE003852	1713250	61.854	20.688	33.558	36.264	22.044	1.204941	-0.6761	0.46608	1.090327	0.310735
AE003852	1713750	71.832	19.68	30.728	33.246	16.638	2.157924	-0.81668	0.095148	0.67182	-0.57459
AE003852	1714250	53.148	23.226	29.424	26.586	14.058	0.370032	-0.32639	-0.07634	-0.25051	-0.9978
AE003852	1714750	45.04	27.804	25.128	26.558	17.084	-0.4065	0.306851	-0.63888	-0.25539	-0.50432
AE003852	1715250	45.38	38.092	25.522	25.862	11.92	-0.37518	1.731097	-0.58845	-0.35268	-1.35007
AE003852	1715750	40.962	34.758	35.394	35.168	12.414	-0.79885	1.2683	0.700709	0.933696	-1.27062
AE003852	1716250	63.538	36.526	45.794	36.752	14.15	1.35885	1.512277	2.058872	1.151821	-0.98808
AE003852	1716750	52.466	36.344	34.792	31.196	20.606	0.298874	1.486123	0.6199	0.382213	0.066284
AE003852	1717250	39.73	37.5	30.556	36.828	17.276	-0.92023	1.645322	0.06521	1.16033	-0.47957
AE003852	1717750	34.888	24.252	30.35	31.092	13.094	-1.38444	-0.19085	0.037221	0.365821	-1.16475
AE003852	1718250	58.644	23.482	29.694	19.344	20.306	0.886097	-0.29846	-0.04958	-1.26038	0.013239

AE003852	1718750	51.954	22.326	30.71	22.542	13.924	0.245161	-0.45955	0.082141	-0.81897	-1.03168
AE003852	1719250	47.348	24.452	27.684	28.216	19.138	-0.19649	-0.16597	-0.31441	-0.03505	-0.18041
AE003852	1719750	55.716	31.914	41.48	35.324	21.004	0.602536	0.866789	1.487595	0.947258	0.123388
AE003852	1720250	43.27	26.968	32.484	31.836	18.274	-0.58883	0.180682	0.310797	0.463732	-0.32435
AE003852	1720750	39.492	27.768	28.246	24.684	15.26	-0.9513	0.290564	-0.24415	-0.52666	-0.81854
AE003852	1721250	44.896	32.066	21.576	17.488	13.372	-0.43572	0.885021	-1.11696	-1.52315	-1.12859
AE003852	1721750	35.16	32.654	28.304	16.016	15.124	-1.36794	0.965534	-0.2387	-1.72778	-0.84344
AE003852	1722250	40.884	33.26	20.4	25.786	15.684	-0.82175	1.048541	-1.27278	-0.37722	-0.75319
AE003852	1722750	37.876	28.876	34.162	22.776	14.218	-1.11059	0.440287	0.524776	-0.79462	-0.99424
AE003852	1723250	36.998	29.212	27.578	29.478	18.304	-1.19574	0.485892	-0.33679	0.131517	-0.32743
AE003852	1723750	51.682	22.558	26.568	24.418	20.582	0.20727	-0.43682	-0.46985	-0.56948	0.043745
AE003852	1724250	54.144	26.458	26.694	29.97	21.632	0.441517	0.102499	-0.45445	0.197574	0.214113
AE003852	1724750	38.088	21.622	27.046	31.41	20.368	-1.09507	-0.56837	-0.40951	0.395779	0.006093
AE003852	1725250	42.646	17.484	21.702	27.96	17.23	-0.66038	-1.14255	-1.10901	-0.08249	-0.50837
AE003852	1725750	44.522	23.702	28.172	27.996	16.412	-0.48217	-0.28211	-0.26448	-0.07851	-0.64346
AE003852	1726250	44.564	24.186	37.584	25.59	19.398	-0.47935	-0.21601	0.964556	-0.41236	-0.15651
AE003852	1726750	38.022	25.054	24.606	17.148	21.232	-1.10613	-0.0967	-0.73267	-1.58121	0.142057
AE003852	1727250	37.28	19.276	26.012	20.798	19.14	-1.17827	-0.89807	-0.54998	-1.07728	-0.20136
AE003852	1727750	51.338	19.154	21.6	28.59	20.004	0.164871	-0.91591	-1.12767	-0.00035	-0.06141
AE003852	1728250	52.228	23.976	24.806	26.11	20.496	0.248791	-0.24886	-0.70973	-0.34443	0.017716
AE003852	1728750	45.45	19.706	19.424	24.436	14.892	-0.40056	-0.84133	-1.41419	-0.57701	-0.89999
AE003852	1729250	60.636	13.704	25.962	23.938	18.896	1.050451	-1.67372	-0.56077	-0.6469	-0.24658
AE003852	1729750	57.848	18.862	26.482	23.476	20.22	0.782654	-0.96013	-0.49388	-0.71182	-0.0314
AE003852	1730250	60.93	26.542	28.84	24.05	16.388	1.07619	0.102835	-0.18676	-0.63342	-0.65935
AE003852	1730750	63.912	37.96	27.082	30.602	13.468	1.360163	1.68362	-0.41759	0.271973	-1.13816
AE003852	1731250	44.598	28.704	25.948	25.226	16.49	-0.48797	0.400452	-0.56687	-0.47273	-0.64533
AE003852	1731750	50.034	30.228	28.726	31.762	21.822	0.030668	0.610629	-0.20486	0.430441	0.225238
AE003852	1732250	52.914	34.296	26.318	23.382	20.12	0.304888	1.173224	-0.52064	-0.72983	-0.0544
AE003852	1732750	46.832	29.768	26.06	19.664	17.648	-0.27791	0.545022	-0.55542	-1.24518	-0.45996
AE003852	1733250	50.49	23.64	20.474	21.64	13.804	0.070711	-0.30483	-1.28655	-0.97282	-1.08986
AE003852	1733750	47.128	22.23	34.078	24.224	18.978	-0.25198	-0.50109	0.490358	-0.61636	-0.24513
AE003852	1734250	56.706	26.302	40.048	26.646	25.046	0.662755	0.062055	1.269542	-0.28231	0.745783
AE003852	1734750	61.428	23.956	47.46	28.216	22.018	1.11312	-0.26388	2.237188	-0.06612	0.249311
AE003852	1735250	55.396	31.96	50.434	31.688	16.9	0.535107	0.84397	2.624809	0.413187	-0.58892
AE003852	1735750	64.386	27.932	32.896	25.37	16.532	1.39361	0.285033	0.331614	-0.46184	-0.65043
AE003852	1736250	49.986	25.808	32.964	22.808	14.756	0.015386	-0.01015	0.339436	-0.81726	-0.94217
AE003852	1736750	56.542	46.452	27.5	34.912	20.062	0.641132	2.84871	-0.37575	0.856182	-0.07586

AE003852	1737250	37.552	31.49	22.838	20.66	4.922	-1.17602	0.775094	-0.98611	-1.11642	-2.5529
AE003852	1737750	28.072	23.09	21.718	23.886	0	-2.08376	-0.38949	-1.13356	-0.67114	-3.35908
AE003852	1738250	30.936	28.898	32.356	23.546	1.4	-1.81107	0.414143	0.255712	-0.71918	-3.13148
AE003852	1738750	36.318	25.842	31.672	36.964	10.588	-1.29759	-0.01014	0.165251	1.136042	-1.63037
AE003852	1739250	40.17	14.276	28.546	26.472	26.97	-0.93042	-1.61331	-0.24437	-0.3164	1.047102
AE003852	1739750	35.39	29.54	31.238	23.288	27.466	-1.38871	0.500254	0.106398	-0.75787	1.126878
AE003852	1740250	38.132	32.06	24.896	29.194	31.102	-1.12769	0.848406	-0.72353	0.058148	1.720112
AE003852	1740750	47.924	23.728	24.574	31.614	22.888	-0.19249	-0.30676	-0.76668	0.391924	0.375619
AE003852	1741250	56.898	21.71	28.172	23.468	23.716	0.664484	-0.58725	-0.29751	-0.73598	0.509685
AE003852	1741750	62.494	23.99	31.348	29.548	18.726	1.198427	-0.27235	0.116513	0.104112	-0.30762
AE003852	1742250	61.998	21.66	27.892	35.944	23.138	1.149808	-0.59606	-0.33623	0.98792	0.412511
AE003852	1742750	61.684	17.354	30.114	22.046	19.23	1.118593	-1.19351	-0.0469	-0.9357	-0.22786
AE003852	1743250	43.788	19.418	32.514	29.448	23.088	-0.59394	-0.90853	0.265707	0.087271	0.401675
AE003852	1743750	41.286	18.696	29.03	31.856	15.846	-0.83439	-1.00949	-0.1907	0.419387	-0.78388
AE003852	1744250	39.654	26.318	32.09	35.996	14.272	-0.99164	0.045438	0.208161	0.991104	-1.04259
AE003852	1744750	47.362	26.886	37.326	31.98	22.542	-0.25574	0.123181	0.891415	0.434536	0.308404
AE003852	1745250	44.216	28.348	34.276	29.098	28.946	-0.55777	0.324769	0.49173	0.034844	1.354264
AE003852	1745750	42.986	30.218	37.496	36.158	25.736	-0.67658	0.582877	0.911502	1.010508	0.828031
AE003852	1746250	52.218	35.708	35.932	33.624	24.534	0.205067	1.34246	0.70603	0.658957	0.630149
AE003852	1746750	54.522	35.232	39.918	31.954	30.078	0.424205	1.275579	1.225915	0.42693	1.535382
AE003852	1747250	59.61	35.482	35.844	30.806	31.324	0.909569	1.30927	0.692398	0.267116	1.737799
AE003852	1747750	47.812	27.128	35.094	23.05	22.376	-0.21983	0.151055	0.593311	-0.80684	0.273282
AE003852	1748250	41.316	23.752	27.844	32.412	15.146	-0.84222	-0.31756	-0.35529	0.487282	-0.91031
AE003852	1748750	49.806	19.94	25.116	25.174	15.206	-0.03153	-0.84658	-0.71289	-0.51501	-0.90182
AE003852	1749250	58.998	28.832	28.932	29.728	20.784	0.846293	0.384284	-0.21523	0.113978	0.008967
AE003852	1749750	57.526	18.516	25.442	29.066	18.906	0.704342	-1.04572	-0.67242	0.021395	-0.29946
AE003852	1750250	57.74	16.052	30.612	26.774	17.912	0.723618	-1.388	0.002209	-0.29668	-0.46333
AE003852	1750750	44.794	15.404	31.428	30.938	24.384	-0.51556	-1.47871	0.10779	0.27836	0.593655
AE003852	1751250	48.522	18.444	40.026	33.504	17.082	-0.16025	-1.05852	1.230441	0.632333	-0.60171
AE003852	1751750	51.288	13.312	24.37	24.734	12.74	0.103065	-1.7704	-0.81679	-0.58189	-1.31305
AE003852	1752250	49.848	21.452	29.94	22.004	14.418	-0.03583	-0.64371	-0.08988	-0.96056	-1.03999
AE003852	1752750	47.172	25.372	30.244	28.994	15.992	-0.29291	-0.10162	-0.05121	0.005421	-0.78393
AE003852	1753250	37.62	20.004	27.556	16.724	18.838	-1.20754	-0.84619	-0.40359	-1.69299	-0.31988
AE003852	1753750	45.48	19.228	26.378	21.664	17.196	-0.45709	-0.95463	-0.55861	-1.0106	-0.58971
AE003852	1754250	40.118	15.186	29.564	23.986	15.93	-0.97103	-1.5155	-0.14328	-0.69038	-0.79806
AE003852	1754750	39.008	15.166	27.466	25.622	16.914	-1.07837	-1.51921	-0.41855	-0.46506	-0.63849
AE003852	1755250	31.494	23.988	25.308	33.394	17.662	-1.7981	-0.29805	-0.70165	0.609096	-0.5175

AE003852	1755750	38.446	29.514	32.748	21.494	17.408	-1.13449	0.466519	0.269653	-1.03813	-0.56037
AE003852	1756250	37.166	24.684	31.378	22.844	15.738	-1.25808	-0.20352	0.089535	-0.85238	-0.83478
AE003852	1756750	39.248	19.236	24.586	28.384	17.966	-1.06017	-0.95917	-0.79921	-0.08698	-0.47178
AE003852	1757250	42.432	25.286	14.574	22.726	24.72	-0.75688	-0.12201	-2.10879	-0.8707	0.631313
AE003852	1757750	45.434	26.58	19.792	23.704	20.226	-0.47099	0.056308	-1.42789	-0.73641	-0.10488
AE003852	1758250	40.222	19.698	30.266	23.158	17.086	-0.97059	-0.89799	-0.06006	-0.81295	-0.61967
AE003852	1758750	49.222	19.106	24.462	27.022	17.816	-0.11113	-0.98094	-0.81968	-0.27941	-0.50163
AE003852	1759250	40.044	22.894	28.014	27.456	22.9	-0.98999	-0.45714	-0.35652	-0.22037	0.328386
AE003852	1759750	29.136	37.5	30.182	22.768	21.384	-2.03428	1.56528	-0.07423	-0.86991	0.079158
AE003852	1760250	43.888	31.308	30.5	20.55	16.606	-0.62477	0.706565	-0.03374	-1.17774	-0.70348
AE003852	1760750	52.692	23.654	22.838	33.934	20.886	0.215942	-0.35468	-1.03619	0.672773	-0.00493
AE003852	1761250	41.826	17.758	24.064	36.686	21.776	-0.82433	-1.17239	-0.87702	1.052477	0.13927
AE003852	1761750	39.388	19.208	26.64	32.048	16.362	-1.05866	-0.97246	-0.54142	0.409862	-0.74736
AE003852	1762250	42.326	16.442	25.856	29.16	10.166	-0.7789	-1.35658	-0.64495	0.00934	-1.76187
AE003852	1762750	36.524	13.904	31.906	22.234	17.308	-1.33491	-1.7091	0.144691	-0.94979	-0.59533
AE003852	1763250	47.622	17.358	35.692	24.644	19.324	-0.27483	-1.23157	0.638437	-0.6174	-0.267
AE003852	1763750	58.264	20.416	28.622	25.912	16.268	0.741651	-0.80889	-0.28664	-0.44299	-0.76805
AE003852	1764250	45.828	19.714	26.578	27.664	19.286	-0.44876	-0.90708	-0.55485	-0.20162	-0.27588
AE003852	1764750	47.52	22.582	28.988	21.244	16.702	-0.28815	-0.51072	-0.24094	-1.09076	-0.69974
AE003852	1765250	51.972	22.824	23.674	27.198	17.604	0.136399	-0.47813	-0.93652	-0.26809	-0.55358
AE003852	1765750	41.852	25.036	32.432	32.768	17.334	-0.83254	-0.17265	0.207044	0.501447	-0.59906
AE003852	1766250	47.898	22.112	35.378	29.262	20.822	-0.25556	-0.57865	0.591006	0.015431	-0.03003
AE003852	1766750	51.68	25.18	24.23	27.928	17.354	0.104911	-0.15458	-0.86705	-0.17011	-0.59845
AE003852	1767250	63.556	27.896	22.902	26.404	23.706	1.239396	0.22072	-1.04168	-0.38194	0.438911
AE003852	1767750	53.618	32.984	30.134	23.55	19.166	0.287861	0.924615	-0.09755	-0.77776	-0.30481
AE003852	1768250	54.548	33.726	35.216	23.2	25.714	0.375607	1.026462	0.565572	-0.82718	0.764602
AE003852	1768750	47.006	35.62	48.11	26.088	16.082	-0.3468	1.287895	2.249688	-0.42867	-0.81176
AE003852	1769250	45.156	27.242	31.522	16.842	16.794	-0.5249	0.126356	0.080654	-1.70874	-0.69667
AE003852	1769750	58.776	18.708	22.702	20.248	18.266	0.776356	-1.05679	-1.07314	-1.23857	-0.45729
AE003852	1770250	60.086	19.274	29.862	26.426	18.076	0.90044	-0.97933	-0.13843	-0.38491	-0.48969
AE003852	1770750	44.442	18.604	34.39	26.886	13.72	-0.59674	-1.07308	0.452291	-0.32228	-1.20332
AE003852	1771250	40.016	20.086	31.798	32.6	14.866	-1.02118	-0.86873	0.112464	0.46718	-1.01725
AE003852	1771750	44.01	25.466	35.188	30.164	18.988	-0.64043	-0.12438	0.554454	0.129186	-0.34455
AE003852	1772250	35.926	20.464	33.02	26.296	24.602	-1.41467	-0.81825	0.270042	-0.40691	0.57213
AE003852	1772750	40.504	35.916	32.316	19.836	16.142	-0.97808	1.321366	0.176967	-1.30157	-0.81259
AE003852	1773250	49.584	42.662	26.462	29.518	13.59	-0.11097	2.254942	-0.58919	0.036812	-1.23123
AE003852	1773750	57.398	29.108	27.892	31.32	18.978	0.635077	0.376376	-0.40336	0.285095	-0.3515

AE003852	1774250	58.31	25.116	28.868	31.56	18.37	0.721102	-0.17757	-0.27687	0.317294	-0.45225
AE003852	1774750	46.408	28.46	22.53	18.666	13.798	-0.41824	0.284726	-1.10628	-1.46744	-1.2012
AE003852	1775250	46.628	23.808	22.372	23.524	16.244	-0.39839	-0.36065	-1.12799	-0.7964	-0.80256
AE003852	1775750	54.382	20.736	29.808	26.952	19.904	0.341913	-0.78716	-0.15721	-0.32318	-0.2054
AE003852	1776250	53.378	32.248	30.994	27.888	20.014	0.244715	0.806649	-0.00327	-0.19469	-0.18874
AE003852	1776750	60.316	25.538	24.224	23.162	10.67	0.90699	-0.12382	-0.88914	-0.84948	-1.71801
AE003852	1777250	45.894	22.812	34.08	25.66	22.384	-0.47334	-0.5024	0.397924	-0.50492	0.196143
AE003852	1777750	60.206	22.818	24.358	21.842	28.748	0.894095	-0.50251	-0.87376	-1.03409	1.235463
AE003852	1778250	68.276	21.23	24.07	23.07	20.528	1.664621	-0.72343	-0.91246	-0.86522	-0.11001
AE003852	1778750	52.802	17.642	29.742	27.766	21.186	0.183693	-1.22142	-0.17223	-0.21658	-0.00374
AE003852	1779250	68.882	36.472	44.962	27.588	25.838	1.720196	1.386147	1.815886	-0.24221	0.755627
AE003852	1779750	53.806	27.976	37.714	26.244	25.948	0.277327	0.208261	0.867543	-0.42914	0.772285
AE003852	1780250	41.322	26.73	24.854	24.954	27.322	-0.91767	0.034712	-0.81426	-0.6086	0.995634
AE003852	1780750	45.742	34.402	24.61	26.22	26.69	-0.49619	1.096566	-0.84722	-0.43446	0.890959
AE003852	1781250	56.858	34.018	34.082	26.92	23.818	0.565619	1.042429	0.389662	-0.33863	0.419996
AE003852	1781750	57.744	16.672	34.182	32.202	24.828	0.649157	-1.36144	0.401666	0.391071	0.583823
AE003852	1782250	53.778	21.718	36.938	36.53	31.172	0.26871	-0.66336	0.760796	0.988796	1.619872
AE003852	1782750	54.884	25.742	28.688	37.586	22.74	0.373286	-0.10686	-0.3185	1.133879	0.239731
AE003852	1783250	40.006	32.788	26	29.74	16.43	-1.05065	0.868272	-0.67088	0.047476	-0.79342
AE003852	1783750	45.48	29.11	30.22	22.832	16.084	-0.52837	0.35782	-0.12041	-0.90917	-0.85133
AE003852	1784250	51.208	12.696	30.128	25.402	19.544	0.018195	-1.91694	-0.1335	-0.55464	-0.28687
AE003852	1784750	40.728	22.312	29	26.544	20.894	-0.98517	-0.58578	-0.28199	-0.39766	-0.06745
AE003852	1785250	54.45	33.948	32.892	25.548	15.28	0.325844	1.025199	0.225611	-0.53645	-0.98679
AE003852	1785750	58.128	21.364	36.882	22.728	14.198	0.676374	-0.71899	0.746019	-0.92756	-1.16504
AE003852	1786250	56.924	32.83	27.974	23.942	11.372	0.56005	0.86844	-0.41928	-0.76062	-1.62849
AE003852	1786750	61.326	25.534	40.63	35.378	14.352	0.979814	-0.14321	1.233733	0.820409	-1.14252
AE003852	1787250	55.838	20.194	39.548	44.27	17.744	0.453823	-0.8839	1.091255	2.049509	-0.58919
AE003852	1787750	52.124	26.112	40.92	33.848	17.984	0.097474	-0.06502	1.269503	0.606747	-0.55127
AE003852	1788250	61.716	26.23	37.56	22.55	10.646	1.013545	-0.04962	0.829303	-0.9572	-1.75252
AE003852	1788750	58.532	40.132	27.544	20.398	21.648	0.707879	1.875272	-0.4808	-1.2559	0.045211
AE003852	1789250	53.968	22.868	33.202	29.174	23.89	0.270247	-0.51724	0.257603	-0.04285	0.410496
AE003852	1789750	54.888	24.892	20.416	26.248	23.79	0.357036	-0.2378	-1.41453	-0.44863	0.392814
AE003852	1790250	70.696	28.24	25.618	23.77	24.362	1.867528	0.225058	-0.73572	-0.79244	0.485019
AE003852	1790750	50.622	20.606	36.906	39.912	18.872	-0.05329	-0.83342	0.738501	1.439615	-0.41404
AE003852	1791250	38.768	17.728	37.926	47.092	11.816	-1.18804	-1.23304	0.870744	2.43188	-1.56918
AE003852	1791750	42.068	18.744	23.91	31.102	17.062	-0.87366	-1.09324	-0.96214	0.218852	-0.71268
AE003852	1792250	42.976	27.178	25.11	30.314	23.218	-0.78802	0.074173	-0.80637	0.108839	0.292632

AE003852	1792750	43.062	21.616	36.68	35.59	19.316	-0.78098	-0.69727	0.704702	0.837708	-0.34676
AE003852	1793250	50.824	23	41.082	24.974	14.658	-0.03991	-0.50649	1.278956	-0.63189	-1.10977
AE003852	1793750	61.82	21.984	37.37	22.494	15.906	1.010422	-0.64817	0.792751	-0.97597	-0.90702
AE003852	1794250	51.596	19.84	31.776	30.086	20.928	0.031539	-0.94612	0.060577	0.073288	-0.08715
AE003852	1794750	40.206	17.912	47.07	30.954	17.654	-1.05885	-1.21415	2.058361	0.192363	-0.62385
AE003852	1795250	50.118	27.124	44.624	24.82	17.45	-0.11217	0.061042	1.737616	-0.6572	-0.65854
AE003852	1795750	54.624	31.068	28.474	21.308	20.54	0.317535	0.60646	-0.37417	-1.14405	-0.15458
AE003852	1796250	60.392	34.216	29.244	26.14	17.622	0.867926	1.041608	-0.2746	-0.4766	-0.63307
AE003852	1796750	44.534	37.986	32.048	35.744	15.536	-0.64972	1.562921	0.090799	0.850993	-0.9755
AE003852	1797250	47.806	25.658	31.27	28.498	24.844	-0.33802	-0.14581	-0.01195	-0.15241	0.545222
AE003852	1797750	50.026	16.67	27.856	30.37	17.43	-0.12691	-1.39185	-0.45921	0.10556	-0.66845
AE003852	1798250	45.132	20.026	41.74	26.182	19.066	-0.5961	-0.92789	1.354299	-0.4748	-0.40226
AE003852	1798750	41.818	23.188	44.692	24.42	27.252	-0.9142	-0.4908	1.739045	-0.71956	0.934992
AE003852	1799250	47.966	23.57	53.27	27.808	24.578	-0.32747	-0.43882	2.859082	-0.25187	0.496407
AE003852	1799750	46.342	23.078	32.352	32.576	23.69	-0.48396	-0.50792	0.124137	0.406724	0.34987
AE003852	1800250	37.888	31.244	24.85	24.804	20.814	-1.29358	0.622366	-0.8574	-0.66944	-0.12175
AE003852	1800750	42.854	37.094	24.006	23.118	15.526	-0.81988	1.43182	-0.96877	-0.90368	-0.98778
AE003852	1801250	44.364	25.208	22.894	20.794	16.55	-0.67667	-0.21568	-1.11517	-1.22618	-0.82166
AE003852	1801750	43.516	20.676	25.898	17.132	20.848	-0.75895	-0.84444	-0.72363	-1.73378	-0.12018
AE003852	1802250	49.988	24.294	33.576	24.862	17.176	-0.14124	-0.34418	0.278781	-0.66543	-0.72196
AE003852	1802750	41.736	32.882	28.736	29.874	23.406	-0.93154	0.844568	-0.35485	0.02692	0.295452
AE003852	1803250	45.58	27.772	28.304	26.552	20.576	-0.56514	0.135743	-0.41237	-0.43364	-0.16864
AE003852	1803750	47.222	33.09	29.304	17.796	14.818	-0.40931	0.871499	-0.28274	-1.64593	-1.11153
AE003852	1804250	42.182	22.436	30.72	22.844	12.7	-0.89246	-0.60533	-0.09875	-0.9486	-1.45919
AE003852	1804750	56.488	10.296	24.24	24.286	16.708	0.474401	-2.28802	-0.94672	-0.75012	-0.80513
AE003852	1805250	50.752	17.36	31.504	25.774	13.796	-0.07531	-1.31039	0.001588	-0.54528	-1.28263
AE003852	1805750	50.726	27.302	26.812	21.226	22.888	-0.07898	0.065926	-0.6127	-1.17544	0.202771
AE003852	1806250	57.736	21.678	27.672	25.45	19.604	0.59018	-0.7141	-0.50137	-0.5921	-0.33556
AE003852	1806750	58.17	18.756	28.906	23.934	24.722	0.630494	-1.11983	-0.34115	-0.80283	0.50001
AE003852	1807250	58.442	31.228	30.162	29.656	22.628	0.655317	0.606966	-0.17807	-0.01226	0.156267
AE003852	1807750	42.232	32.292	28.754	29.086	17.44	-0.89599	0.75342	-0.36315	-0.09211	-0.69341
AE003852	1808250	40.072	26.246	32.078	37.436	27.914	-1.10374	-0.08507	0.070214	1.062006	1.017981
AE003852	1808750	44.06	23.35	34.138	21.704	31.136	-0.72356	-0.48719	0.33838	-1.11533	1.543517
AE003852	1809250	50.368	19.962	28.344	20.89	18.754	-0.12153	-0.95747	-0.41993	-1.22894	-0.48253
AE003852	1809750	47.732	27.154	18.846	17.39	17.428	-0.37479	0.03789	-1.66234	-1.71413	-0.70069
AE003852	1810250	38.652	23.458	18.558	34.494	22.416	-1.24428	-0.47506	-1.70104	0.651006	0.113622
AE003852	1810750	38.084	22.174	24.268	31.964	19.608	-1.29978	-0.65387	-0.95584	0.300009	-0.34687

AE003852	1811250	36.484	26.55	25.478	44.382	16.5	-1.45398	-0.04861	-0.79877	2.016889	-0.85643
AE003852	1811750	55.746	23.268	28.436	33.63	12.566	0.386813	-0.5042	-0.41324	0.528475	-1.50105
AE003852	1812250	54.086	30.248	29.068	20.816	19.79	0.226883	0.461791	-0.3317	-1.24519	-0.3211
AE003852	1812750	56.146	24.866	32.12	21.85	24.666	0.422688	-0.28471	0.066114	-1.10315	0.474897
AE003852	1813250	45.552	21.822	25.436	21.672	23.536	-0.59158	-0.70734	-0.80852	-1.12878	0.288789
AE003852	1813750	44.512	24.668	36.878	17.894	23.278	-0.69222	-0.31403	0.68583	-1.65242	0.245271
AE003852	1814250	56.504	21.132	37.028	23.44	21.15	0.453359	-0.80481	0.704369	-0.8862	-0.10403
AE003852	1814750	48.104	29.332	25.096	29.9	15.452	-0.3511	0.33019	-0.85615	0.00646	-1.03711
AE003852	1815250	43.408	37.204	28.6	33.726	18.502	-0.80136	1.41975	-0.39926	0.534739	-0.5397
AE003852	1815750	43.38	24.368	34.742	33.086	17.576	-0.80522	-0.35935	0.402404	0.4452	-0.69245
AE003852	1816250	48.644	15.324	36.768	43.026	22.296	-0.30303	-1.61315	0.666127	1.819278	0.078045
AE003852	1816750	49.106	19.556	37.724	39.018	19.28	-0.26003	-1.02784	0.790005	1.263817	-0.41646
AE003852	1817250	49.568	33.906	23.166	32.696	16.99	-0.21704	0.959114	-1.11372	0.388241	-0.79226
AE003852	1817750	45.666	23.128	23.806	26.552	12.224	-0.59137	-0.5349	-1.03114	-0.46271	-1.57293
AE003852	1818250	49.408	14.93	36.27	29.012	19.662	-0.23472	-1.6715	0.596779	-0.1234	-0.35799
AE003852	1818750	58.084	15.104	32.7	29.224	24.648	0.593758	-1.64834	0.129132	-0.09508	0.455999
AE003852	1819250	56.944	21.866	28.526	29.716	16.9	0.483555	-0.71254	-0.41745	-0.02802	-0.81229
AE003852	1819750	54.97	30.932	31.424	31.83	14.306	0.293598	0.54242	-0.03977	0.263428	-1.2378
AE003852	1820250	51.838	27.192	26.126	32.338	15.296	-0.0071	0.023379	-0.73325	0.332702	-1.07724
AE003852	1820750	56.754	29.556	28.834	16.552	13.414	0.461822	0.34992	-0.3804	-1.85211	-1.38632
AE003852	1821250	54.966	32.64	28.036	25.362	18.24	0.289652	0.776203	-0.48576	-0.63435	-0.59849
AE003852	1821750	46.944	18.662	25.826	38.02	22.298	-0.47866	-1.1611	-0.77566	1.115732	0.063746
AE003852	1822250	41.684	21.624	27.26	28.814	18.508	-0.98285	-0.75172	-0.58931	-0.15881	-0.55733
AE003852	1822750	41.088	21.37	32.22	27.954	14.67	-1.04103	-0.78785	0.057875	-0.27878	-1.18625
AE003852	1823250	47.61	21.208	29.494	22.71	17.62	-0.41854	-0.81123	-0.29947	-1.00523	-0.7052
AE003852	1823750	38.198	28.772	25.34	23.474	19.472	-1.31977	0.235663	-0.84344	-0.90054	-0.40368
AE003852	1824250	40.084	21.224	34.6	19.704	16.392	-1.1406	-0.8109	0.365732	-1.42308	-0.90866
AE003852	1824750	47.938	23.994	24.362	19.522	20.666	-0.39073	-0.42811	-0.97339	-1.44926	-0.2111
AE003852	1825250	51.854	23.844	21.376	26.232	20.172	-0.01745	-0.44983	-1.36471	-0.52201	-0.29321
AE003852	1825750	52.752	26.28	20.268	18.152	20.384	0.06724	-0.11332	-1.51059	-1.64079	-0.25987
AE003852	1826250	46.98	29.242	27.026	23.942	22.898	-0.48591	0.296064	-0.62841	-0.84081	0.149892
AE003852	1826750	43.818	25.86	41.86	22.002	22.294	-0.78947	-0.17338	1.309251	-1.11019	0.049796
AE003852	1827250	40.194	24.994	34.54	33.92	18.228	-1.13721	-0.29429	0.351498	0.537519	-0.61641
AE003852	1827750	37.57	27.352	28.812	35.614	20.42	-1.38933	0.031419	-0.39819	0.770862	-0.2593
AE003852	1828250	42.192	33.706	30.49	27.678	23.002	-0.94853	0.910691	-0.17995	-0.32799	0.16158
AE003852	1828750	42.73	24.164	33.112	22.872	23.434	-0.89827	-0.4121	0.161669	-0.99385	0.230892
AE003852	1829250	44.042	21.788	26.346	27.57	19.376	-0.77399	-0.74218	-0.72368	-0.34494	-0.43401

AE003852	1829750	49.488	28.338	26.202	26.016	17.984	-0.25439	0.164242	-0.74356	-0.56092	-0.66296
AE003852	1830250	48.232	36.626	33.712	26.72	18.028	-0.37569	1.31143	0.23689	-0.46453	-0.65709
AE003852	1830750	38.196	32.736	34.272	27.414	11.592	-1.33659	0.77161	0.309013	-0.36952	-1.71085
AE003852	1831250	36.256	26.664	32.596	37.388	14.726	-1.5233	-0.07048	0.088903	1.009257	-1.1997
AE003852	1831750	57.636	20.952	36.89	33.432	20.362	0.520029	-0.8627	0.649042	0.460989	-0.27942
AE003852	1832250	56.846	22.41	43.57	31.192	20.574	0.443295	-0.66167	1.521019	0.150109	-0.24609
AE003852	1832750	52.864	21.656	42.82	39.61	20.674	0.061319	-0.76706	1.421933	1.313637	-0.23106
AE003852	1833250	49.334	27.114	34.75	30.746	18.984	-0.27743	-0.01191	0.366158	0.086406	-0.50874
AE003852	1833750	66.444	32.95	30.046	26.322	24.122	1.357564	0.795605	-0.2497	-0.5266	0.330098
AE003852	1834250	73.934	31.328	25.526	33.126	23.352	2.072626	0.569969	-0.8415	0.413645	0.202857
AE003852	1834750	53.596	27.796	24.402	34.498	14.632	0.126566	0.079742	-0.98947	0.602443	-1.22438
AE003852	1835250	49.588	30.534	26.914	28.01	24.098	-0.2579	0.458094	-0.66223	-0.2961	0.322185
AE003852	1835750	44.364	34.522	24.828	33.392	29.694	-0.75864	1.009606	-0.93593	0.447436	1.23592
AE003852	1836250	37.092	28.636	20.616	33.236	17.386	-1.45523	0.193282	-1.48748	0.424853	-0.77803
AE003852	1836750	40.17	26.396	26.084	30.944	28.838	-1.16208	-0.11797	-0.7739	0.10678	1.093287
AE003852	1837250	47.168	21.6	26.962	24.086	28.486	-0.49407	-0.78329	-0.66022	-0.84295	1.034398
AE003852	1837750	53.874	15.758	27.276	29.354	21.114	0.146022	-1.59352	-0.62025	-0.11518	-0.17241
AE003852	1838250	50.932	16.522	32.558	25.554	20.454	-0.1365	-1.48863	0.06902	-0.64187	-0.28166
AE003852	1838750	61.156	22.472	29.292	31.878	19.374	0.840006	-0.66532	-0.3589	0.231978	-0.4596
AE003852	1839250	59.358	29.822	32.516	38.59	18.628	0.66688	0.351927	0.0614	1.159501	-0.58291
AE003852	1839750	65.73	41.054	28.478	37.006	10.822	1.27503	1.906946	-0.46741	0.939371	-1.86069
AE003852	1840250	69.366	22.41	24.02	20.368	15.198	1.621544	-0.67673	-1.05112	-1.3633	-1.14645
AE003852	1840750	43.46	13.412	20.056	22.538	10.994	-0.85697	-1.92416	-1.57026	-1.06411	-1.83522
AE003852	1841250	44.856	34.148	28.726	33.558	16.598	-0.72466	0.947438	-0.4382	0.459374	-0.92018
AE003852	1841750	43.652	36.24	37.964	34.64	18.71	-0.84099	1.236299	0.768099	0.608054	-0.57615
AE003852	1842250	51.328	39.3	25.216	32.978	21.946	-0.10814	1.659257	-0.89907	0.377133	-0.04833
AE003852	1842750	52.012	37.59	30.63	33.994	27.472	-0.04392	1.42143	-0.19255	0.516682	0.853962
AE003852	1843250	51.382	22.806	29.736	31.012	23.152	-0.10535	-0.62753	-0.31046	0.103156	0.14622
AE003852	1843750	59.352	20.65	25.488	36.616	21.738	0.655614	-0.92714	-0.86671	0.8774	-0.08633
AE003852	1844250	44.128	29.922	28.404	26.348	27.846	-0.80141	0.356364	-0.48667	-0.54406	0.91113
AE003852	1844750	58.782	29.23	28.338	27.69	17.432	0.59873	0.25956	-0.49636	-0.35941	-0.79311
AE003852	1845250	55.046	23.376	28.146	33.446	28.878	0.240278	-0.55233	-0.52252	0.435861	1.077225
AE003852	1845750	53.51	13.28	31.748	44.916	33.78	0.092206	-1.95186	-0.05282	2.021597	1.877476
AE003852	1846250	52.79	19.778	32.316	29.59	26.11	0.022166	-1.05264	0.020345	-0.09958	0.621939
AE003852	1846750	54.722	21.224	28.164	32.55	16.906	0.205731	-0.85327	-0.52337	0.308903	-0.88444
AE003852	1847250	70.848	25.974	32.182	33.584	17.808	1.746632	-0.1962	0.000701	0.450942	-0.73827
AE003852	1847750	56.772	28.08	26.822	30.302	15.8	0.399391	0.094601	-0.70089	-0.00409	-1.06795

AE003852	1848250	44.754	28.71	27.43	35.124	17.072	-0.75105	0.180933	-0.62249	0.661978	-0.86128
AE003852	1848750	51.43	24.762	33.004	34.886	17.678	-0.11383	-0.36692	0.104936	0.628051	-0.76352
AE003852	1849250	62.346	29.2	32.31	40.454	27.092	0.928855	0.246929	0.013168	1.397316	0.774539
AE003852	1849750	55.966	32.224	30.5	23.244	15.3	0.317563	0.664899	-0.22446	-0.98449	-1.15503
AE003852	1850250	56.368	40.306	32.744	27.656	19.268	0.354817	1.783551	0.067758	-0.37514	-0.50751
AE003852	1850750	48.26	34.784	39.722	26.99	20.12	-0.42172	1.017651	0.978683	-0.46828	-0.36952
AE003852	1851250	49.39	21.542	37.698	24.696	30.156	-0.31485	-0.81769	0.713091	-0.78663	1.27025
AE003852	1851750	42.054	26.958	35.704	26.252	33.794	-1.01756	-0.06836	0.451419	-0.57237	1.86381
AE003852	1852250	42.534	31.25	35.216	24.764	24.584	-0.97285	0.525264	0.386575	-0.77922	0.35645
AE003852	1852750	60.94	35.03	39.254	24.402	24.258	0.786086	1.047962	0.913256	-0.8303	0.301813
AE003852	1853250	47.316	36.078	41.548	39.028	25.496	-0.51793	1.192199	1.212005	1.192026	0.502922
AE003852	1853750	44.248	31.166	24.816	28.568	24.114	-0.8125	0.510802	-0.97585	-0.25599	0.275606
AE003852	1854250	51.632	20.978	30.09	31.784	20.404	-0.10758	-0.90147	-0.28763	0.187901	-0.33239
AE003852	1854750	65.968	28.182	25.478	47.47	19.95	1.262149	0.095548	-0.89146	2.356869	-0.40796
AE003852	1855250	62.912	32.036	21.714	37.49	24.136	0.968724	0.628498	-1.38446	0.975253	0.275215
AE003852	1855750	43.628	23.648	36.016	38.476	23.804	-0.87654	-0.53443	0.483673	1.110652	0.219596
AE003852	1856250	42.496	31.516	41.946	35.768	27.458	-0.98598	0.554579	1.257629	0.73503	0.815773
AE003852	1856750	50.346	24.502	30.81	34.256	18.432	-0.2365	-0.41801	-0.19886	0.52486	-0.6615
AE003852	1857250	46.988	22.972	22.858	29.97	11.21	-0.5588	-0.6309	-1.23921	-0.06906	-1.84378
AE003852	1857750	55.072	29.886	27.396	34.458	15.586	0.213064	0.325952	-0.64718	0.5508	-1.12954
AE003852	1858250	59.968	28.108	32.726	25.89	16.438	0.680068	0.078705	0.048359	-0.63548	-0.99155
AE003852	1858750	53.796	26.56	31.204	30.862	17.948	0.088668	-0.13668	-0.15162	0.051331	-0.74596
AE003852	1859250	55.594	22.756	39.062	28.054	29.408	0.259418	-0.66459	0.874311	-0.33812	1.126662
AE003852	1859750	59.662	26.994	32.682	24.79	27.322	0.647242	-0.07844	0.039412	-0.79066	0.784227
AE003852	1860250	46.006	27.834	34.864	29.872	17.978	-0.65983	0.036981	0.323523	-0.08863	-0.74504
AE003852	1860750	60.742	27.028	31.396	25.934	17.83	0.748144	-0.07561	-0.13079	-0.63441	-0.77058
AE003852	1861250	60.824	32.312	21.13	26.128	19.858	0.754798	0.655432	-1.47357	-0.60857	-0.44028
AE003852	1861750	58.878	28.914	25.716	29.214	24.848	0.567518	0.183768	-0.87527	-0.18266	0.374357
AE003852	1862250	50.906	22.992	41.792	34.142	26.662	-0.19601	-0.63754	1.224716	0.498064	0.669655
AE003852	1862750	65.154	19.38	39.386	29.5	20.298	1.165301	-1.13885	0.909198	-0.1451	-0.37232
AE003852	1863250	56.36	17.944	20.916	33.062	17.18	0.323164	-1.33872	-1.5058	0.346654	-0.88351
AE003852	1863750	62.788	27.332	30.222	32.896	16.536	0.93667	-0.03915	-0.29062	0.322687	-0.99015
AE003852	1864250	61.684	32.478	37.646	39.63	19.6	0.829909	0.672778	0.678593	1.253253	-0.49045
AE003852	1864750	66.244	28.986	37.262	38.476	23.628	1.264783	0.188092	0.62734	1.092609	0.166884
AE003852	1865250	49.728	21.192	28.504	25.594	21.016	-0.31579	-0.89255	-0.51835	-0.69046	-0.26156
AE003852	1865750	42.854	20.686	23.186	28.13	18.134	-0.97432	-0.96358	-1.21445	-0.34064	-0.73416
AE003852	1866250	33.368	30.492	22.49	35.43	20.638	-1.88263	0.393892	-1.30648	0.668224	-0.32603

AE003852	1866750	38.564	25.482	29.122	22.73	13.84	-1.38694	-0.30108	-0.44078	-1.08967	-1.43898
AE003852	1867250	49.514	18.266	29.61	30.56	11.092	-0.34101	-1.30165	-0.37807	-0.00749	-1.88967
AE003852	1867750	58.082	19.782	29.76	38.196	15.062	0.477143	-1.09258	-0.35953	1.04786	-1.24182
AE003852	1868250	45.098	24.604	27.57	22.662	11.796	-0.76567	-0.42553	-0.64681	-1.10209	-1.77721
AE003852	1868750	57.444	40.988	35.986	24.394	13.886	0.413757	1.843186	0.45205	-0.86349	-1.43678
AE003852	1869250	71.922	36.284	35.198	22.584	16.436	1.797064	1.190603	0.347997	-1.11488	-1.02113
AE003852	1869750	56.43	30.812	30.436	25.856	28.864	0.314414	0.43163	-0.27544	-0.66324	1.009785
AE003852	1870250	55.022	37.218	30.214	26.678	20.124	0.178583	1.318106	-0.30552	-0.55053	-0.42072
AE003852	1870750	57.372	25.232	32.984	26.034	19.852	0.402119	-0.34325	0.055441	-0.64062	-0.46653
AE003852	1871250	55.406	24.294	29.042	26.02	25.016	0.212928	-0.47413	-0.46082	-0.64356	0.376566
AE003852	1871750	61.48	22.8	35.334	24.022	21.326	0.792581	-0.68203	0.360444	-0.92096	-0.22816
AE003852	1872250	53.536	24.05	25.748	23.864	22.058	0.031728	-0.50981	-0.89346	-0.94382	-0.10979
AE003852	1872750	50.278	20.386	24.606	27.83	23.844	-0.28101	-1.01833	-1.04378	-0.39618	0.180931
AE003852	1873250	42.608	29.762	25.504	33.04	22.436	-1.01566	0.279582	-0.92748	0.323563	-0.05064
AE003852	1873750	56.892	20.166	30.802	31.43	17.986	0.34909	-1.05069	-0.23613	0.099836	-0.77964
AE003852	1874250	46.53	25.812	28.738	28.306	19.264	-0.64299	-0.26949	-0.50695	-0.33333	-0.57199
AE003852	1874750	46.192	21.85	41.068	25.582	18.606	-0.6765	-0.81929	1.103456	-0.71117	-0.68091
AE003852	1875250	48.094	26.128	36.88	14.992	28.776	-0.4958	-0.2276	0.55504	-2.17717	0.980769
AE003852	1875750	48.568	21.136	29.588	22.9	27.526	-0.45166	-0.92008	-0.39905	-1.0842	0.775038
AE003852	1876250	49.256	17.346	34.162	34.634	22.994	-0.38706	-1.44605	0.19768	0.538059	0.03263
AE003852	1876750	52.22	24.31	52.454	37.72	17.44	-0.10481	-0.48227	2.587288	0.963968	-0.8769
AE003852	1877250	41.714	26.592	53.05	42.866	14.798	-1.11066	-0.16709	2.664117	1.674854	-1.31025
AE003852	1877750	50.496	24.724	50.822	37.89	14.98	-0.27205	-0.4268	2.371863	0.985481	-1.28182
AE003852	1878250	44.084	21.878	29.908	30.324	22.398	-0.8864	-0.822	-0.36256	-0.06219	-0.07015
AE003852	1878750	45.978	13.808	31.186	27.592	27.964	-0.70647	-1.94087	-0.1966	-0.44113	0.838683
AE003852	1879250	56.826	26.262	24.824	24.27	24.358	0.329711	-0.21657	-1.02914	-0.90169	0.247696
AE003852	1879750	51.026	26.426	33.61	36.578	19.532	-0.22612	-0.19479	0.118078	0.799972	-0.54279
AE003852	1880250	56.822	24.796	37.52	37.836	18.406	0.326952	-0.42154	0.62803	0.972999	-0.72824
AE003852	1880750	60.312	19.544	27.268	40.252	13.178	0.659504	-1.15003	-0.71292	1.306221	-1.58446
AE003852	1881250	51.386	19.686	27.754	31.25	20.344	-0.19525	-1.1313	-0.65047	0.059899	-0.414
AE003852	1881750	43.174	30.194	22.804	31.536	29.612	-0.98174	0.323418	-1.29847	0.098462	1.100188
AE003852	1882250	54.588	38.228	25.584	33.296	17.582	0.108569	1.43542	-0.93621	0.340934	-0.8683
AE003852	1882750	55.566	31.236	29.962	30.916	15.28	0.200904	0.465883	-0.36509	0.010687	-1.24606
AE003852	1883250	48.3	37.23	25.392	22.532	15.574	-0.49511	1.295285	-0.96343	-1.15014	-1.19931
AE003852	1883750	44.734	30.934	22.568	25.532	24.71	-0.83731	0.422163	-1.33358	-0.73613	0.293289
AE003852	1884250	42.376	30.178	29.556	25.886	23.202	-1.06399	0.316494	-0.42135	-0.68816	0.045369
AE003852	1884750	49.206	25.252	26.296	22.156	16.634	-0.41204	-0.36684	-0.84848	-1.20516	-1.02997

AE003852	1885250	52.514	20.498	22.522	22.476	14.87	-0.09689	-1.02635	-1.34279	-1.1619	-1.31975
AE003852	1885750	50.572	20.872	27.372	16.634	19.506	-0.28379	-0.97548	-0.70998	-1.97107	-0.56299
AE003852	1886250	46.454	21.812	28.608	23.33	20.162	-0.67877	-0.84621	-0.54951	-1.04576	-0.45705
AE003852	1886750	44.798	24.886	30.892	33.176	17.33	-0.83832	-0.42131	-0.25207	0.315312	-0.92148
AE003852	1887250	66.512	25.548	36.938	29.85	25.47	1.236951	-0.33055	0.537049	-0.1458	0.408258
AE003852	1887750	67.62	15.206	44.118	22.388	25.692	1.341718	-1.76416	1.474374	-1.17908	0.44323
AE003852	1888250	56.566	19.668	31.876	26.818	23.262	0.283464	-1.14698	-0.12666	-0.56725	0.044544
AE003852	1888750	52.378	24.61	42.106	25.404	21.374	-0.11821	-0.46331	1.209285	-0.76386	-0.26551
AE003852	1889250	71.65	27.872	32.182	17.128	21.364	1.723533	-0.01237	-0.0888	-1.90975	-0.26848
AE003852	1889750	65	30.078	24.304	26.824	21.52	1.086422	0.292282	-1.11948	-0.56943	-0.2443
AE003852	1890250	66.58	24.362	23.432	38.288	17.742	1.236326	-0.50049	-1.23451	1.01548	-0.86341
AE003852	1890750	58.676	20.506	27.19	38.414	28.948	0.479298	-1.0356	-0.74442	1.031908	0.967677
AE003852	1891250	56.296	16.844	29.668	24.056	20.308	0.250516	-1.54384	-0.42163	-0.95535	-0.44648
AE003852	1891750	43.676	25.292	31.048	16.368	22.11	-0.95749	-0.37448	-0.24233	-2.0199	-0.15314
AE003852	1892250	39.806	25.632	35.066	24.314	24.434	-1.32876	-0.32833	0.281734	-0.92167	0.225554
AE003852	1892750	36.534	24.198	41	32.586	23.222	-1.64284	-0.52792	1.056213	0.221664	0.026036
AE003852	1893250	33.83	24.998	32.642	36.522	25	-1.9026	-0.41804	-0.0372	0.765161	0.315448
AE003852	1893750	37.746	28.994	28.758	26.084	18.186	-1.52931	0.134583	-0.54589	-0.67981	-0.80012
AE003852	1894250	50.31	22.572	39.076	29.472	19.096	-0.32904	-0.75599	0.801559	-0.21213	-0.65264
AE003852	1894750	46.788	12.922	43.54	28.924	25.048	-0.66703	-2.09374	1.383916	-0.28894	0.319308
AE003852	1895250	53.48	30.704	45.258	30.646	26.928	-0.02827	0.368643	1.607385	-0.05172	0.625398
AE003852	1895750	67.782	34.444	36.038	33.774	17.358	1.338202	0.885801	0.401311	0.379996	-0.94083
AE003852	1896250	56.934	23.282	28.152	31.296	16.298	0.299647	-0.6614	-0.63042	0.036191	-1.11549
AE003852	1896750	48.582	16.178	43.564	38.828	25.938	-0.50022	-1.64646	1.382791	1.077152	0.459523
AE003852	1897250	59.06	21.718	37.46	33.516	31.202	0.500575	-0.87995	0.583963	0.341297	1.31897
AE003852	1897750	74.724	29.174	38.256	28.462	24.112	1.997296	0.151985	0.686931	-0.35887	0.158274
AE003852	1898250	63.046	22.37	35.004	31.304	18.176	0.87937	-0.79151	0.260845	0.033289	-0.81372
AE003852	1898750	58.204	24.912	34.122	35.296	23.446	0.415154	-0.44031	0.144507	0.584532	0.04671
AE003852	1899250	59.268	25.122	23.638	33.002	23.518	0.515713	-0.41216	-1.22677	0.266182	0.057154
AE003852	1899750	59.506	21.678	20.016	38.78	20.786	0.537285	-0.8902	-1.70121	1.064497	-0.39092
AE003852	1900250	78.464	26.992	27.332	29.642	19.66	2.349003	-0.15499	-0.74611	-0.20064	-0.57637
AE003852	1900750	62.828	22.498	34.092	40.376	24.978	0.852583	-0.77849	0.136324	1.28328	0.291906
AE003852	1901250	53.002	27.774	33.072	44.332	17.084	-0.08824	-0.04855	0.001949	1.829543	-1.00026
AE003852	1901750	59.354	25.918	27.808	29.454	18.452	0.517997	-0.3066	-0.68709	-0.22965	-0.77789
AE003852	1902250	68.274	28.646	38.844	24.164	21.332	1.369807	0.070367	0.75419	-0.96246	-0.30828
AE003852	1902750	79.212	26.388	30.126	27.534	25.852	2.414592	-0.24337	-0.38627	-0.49727	0.429505
AE003852	1903250	75.448	26.71	33.702	34.244	23.828	2.053462	-0.19971	0.080026	0.429979	0.097209

AE003852	1903750	71.76	34.8	40.576	31.752	24.908	1.6996	0.92005	0.977358	0.084238	0.272482
AE003852	1904250	81.824	33.358	39.796	34.026	35.782	2.660807	0.71935	0.87435	0.397816	2.049282
AE003852	1904750	62.998	37.862	37.818	31.49	21.066	0.859336	1.342344	0.61477	0.045989	-0.35843
AE003852	1905250	69.004	28.792	39.034	23.714	17.352	1.432487	0.084942	0.77263	-1.03073	-0.96707
AE003852	1905750	81.764	29.346	51.446	21.134	16.152	2.651506	0.160746	2.393751	-1.38865	-1.16463
AE003852	1906250	75.17	31.9	36.662	29.898	22.466	2.01975	0.513608	0.46049	-0.17725	-0.13348
AE003852	1906750	69.282	25.606	26.258	39.564	21.534	1.455507	-0.35924	-0.90033	1.158921	-0.28722
AE003852	1907250	54.542	30.844	36.34	31.16	22.886	0.04477	0.365437	0.416275	-0.00467	-0.06747
AE003852	1907750	74.186	22.776	28.626	43.928	32.2	1.922088	-0.75316	-0.59297	1.760623	1.454242
AE003852	1908250	70.51	25.494	41.248	38.262	28.798	1.569374	-0.37758	1.055596	0.975797	0.896613
AE003852	1908750	72.878	23.772	38.686	37.928	26.328	1.794632	-0.61707	0.719689	0.92859	0.491386
AE003852	1909250	52.616	33.428	37.034	34.858	20.64	-0.14416	0.71963	0.502716	0.50289	-0.44005
AE003852	1909750	55.62	39.92	39.018	35.564	26.888	0.141916	1.61802	0.760949	0.599554	0.580299
AE003852	1910250	53.28	30.246	36.984	49.266	25.786	-0.08304	0.276947	0.49405	2.49406	0.398769
AE003852	1910750	57.822	29.574	45.768	49.678	24.3	0.350112	0.182914	1.64101	2.550053	0.154447
AE003852	1911250	53.328	24.506	44.896	37.662	22.19	-0.08083	-0.52009	1.525978	0.88678	-0.19191
AE003852	1911750	56.964	29.72	42.276	29.224	22.54	0.265688	0.201256	1.182492	-0.28152	-0.13601
AE003852	1912250	64.184	36.388	39.912	35.724	29.756	0.95493	1.124026	0.872463	0.616676	1.04263
AE003852	1912750	58.482	32.348	39.072	44.306	25.338	0.408474	0.563427	0.761614	1.802891	0.318863
AE003852	1913250	52.034	34.408	29.724	29.646	13.62	-0.20932	0.847855	-0.46119	-0.22615	-1.59861
AE003852	1913750	67.93	34.73	29.118	33.202	17.938	1.309587	0.89152	-0.54146	0.264781	-0.89385
AE003852	1914250	58.096	32.764	37.056	44.2	23.24	0.367998	0.61823	0.494937	1.78522	-0.02819
AE003852	1914750	60.264	23.718	40.186	40.848	21.85	0.57413	-0.63585	0.902947	1.320509	-0.25682
AE003852	1915250	71.036	28.27	32.304	29.18	20.452	1.603042	-0.0062	-0.12826	-0.29462	-0.48675
AE003852	1915750	73.168	23.672	37.234	25.434	14.244	1.805732	-0.6441	0.515004	-0.81384	-1.50322
AE003852	1916250	55.786	22.83	39.734	20.104	20.532	0.142346	-0.76169	0.840676	-1.55218	-0.47633
AE003852	1916750	56.106	19.02	33.162	30.79	16.278	0.171759	-1.29042	-0.01932	-0.07491	-1.17328
AE003852	1917250	70.64	23.466	39.064	33.724	14.734	1.560421	-0.67546	0.750979	0.329976	-1.42708
AE003852	1917750	68.922	28.122	37.276	31.24	22.726	1.394945	-0.03141	0.516231	-0.01466	-0.12155
AE003852	1918250	61.042	31.792	24.204	39.796	28.44	0.640213	0.476046	-1.19328	1.16796	0.811481
AE003852	1918750	62.5	35.234	25.82	40.064	19.634	0.778449	0.951922	-0.98314	1.204033	-0.62982
AE003852	1919250	52.88	31.464	37.408	31.288	22.586	-0.14268	0.428725	0.530287	-0.01102	-0.14843
AE003852	1919750	66.61	27.142	35.94	29.974	28.56	1.169103	-0.17094	0.337361	-0.1938	0.827114
AE003852	1920250	66.724	22.388	38.262	32.804	31.196	1.178816	-0.83045	0.639769	0.196691	1.256827
AE003852	1920750	47.176	23.468	31.542	37.36	19.102	-0.6917	-0.68178	-0.23957	0.825957	-0.72213
AE003852	1921250	39.874	23.132	27.02	43.518	20.342	-1.39116	-0.72927	-0.83164	1.67684	-0.52069
AE003852	1921750	60.798	24.296	28.65	27.508	26.086	0.608563	-0.56896	-0.61967	-0.53895	0.417244

AE003852	1922250	76.11	27.518	38.476	33.574	28.528	2.071624	-0.12356	0.663476	0.299202	0.815234
AE003852	1922750	56.256	23.386	35.712	23.966	18.562	0.171847	-0.69691	0.30117	-1.03095	-0.81575
AE003852	1923250	55.386	13.912	20.662	21.51	17.712	0.087463	-2.01027	-1.66686	-1.37171	-0.95607
AE003852	1923750	50.944	16.728	23.05	26.994	25.972	-0.3385	-1.62112	-1.35582	-0.61407	0.393285
AE003852	1924250	35.75	28.122	26.118	26.892	25.078	-1.79265	-0.04366	-0.95591	-0.62918	0.245767
AE003852	1924750	40.03	34.026	31.842	39.978	28.2	-1.38456	0.773279	-0.20888	1.180107	0.754951
AE003852	1925250	48.964	32.82	30.948	43.748	26.19	-0.53141	0.605271	-0.32679	1.700639	0.424943
AE003852	1925750	62.54	26.132	37.51	38.21	20.542	0.765643	-0.32215	0.529766	0.93352	-0.49995
AE003852	1926250	60.96	30.758	48.992	26.406	26.474	0.613363	0.31774	2.029341	-0.70042	0.468724
AE003852	1926750	55.912	30.252	43.572	25.816	24.926	0.129448	0.246703	1.319909	-0.78305	0.214264
AE003852	1927250	48.17	32.788	37.654	24.1	20.268	-0.61209	0.597071	0.54539	-1.02144	-0.54875
AE003852	1927750	59.69	28.202	37.008	25.966	21.76	0.488352	-0.03917	0.459896	-0.7643	-0.3061
AE003852	1928250	54.9	21.306	42.53	31.032	25.974	0.029109	-0.9954	1.180528	-0.06448	0.381645
AE003852	1928750	57.9	28.414	31.962	33.274	23.896	0.314803	-0.01168	-0.20172	0.244669	0.040518
AE003852	1929250	63.614	26.99	32.44	45.884	16.64	0.860031	-0.20989	-0.14032	1.98811	-1.14732
AE003852	1929750	73.13	20.408	27.158	42.992	18.168	1.768834	-1.12263	-0.83171	1.587034	-0.89879
AE003852	1930250	66.146	18.836	22.698	31.35	21.066	1.099783	-1.34134	-1.41568	-0.0245	-0.42624
AE003852	1930750	62.498	14.938	26.442	21.56	21.53	0.749746	-1.88227	-0.92742	-1.37983	-0.35169
AE003852	1931250	56.356	26.468	39.086	34.882	29.842	0.161214	-0.28597	0.724022	0.462105	1.006168
AE003852	1931750	54.022	17.688	40.052	34.296	26.372	-0.06317	-1.50319	0.849208	0.380037	0.437419
AE003852	1932250	58.164	16.278	28.72	38.33	24.49	0.331733	-1.69946	-0.63289	0.93709	0.128343
AE003852	1932750	64.742	23.46	43.234	33.464	17.874	0.959582	-0.70549	1.262948	0.262935	-0.95484
AE003852	1933250	62.046	26.808	37.104	24.804	12.68	0.700583	-0.24263	0.460722	-0.93608	-1.8055
AE003852	1933750	71.05	26.554	32.666	28.202	18.038	1.560425	-0.27876	-0.12037	-0.46701	-0.93068
AE003852	1934250	63.028	19.24	26.88	34.326	19.758	0.792113	-1.29291	-0.87763	0.379175	-0.65076
AE003852	1934750	66.334	21.642	27.54	42.894	29.186	1.107069	-0.9611	-0.79244	1.563453	0.889591
AE003852	1935250	55.62	29.058	32.044	32.432	22.118	0.081328	0.065291	-0.20486	0.115158	-0.26751
AE003852	1935750	48.464	31.908	37.194	33.79	21.032	-0.60417	0.459157	0.467158	0.302019	-0.44642
AE003852	1936250	49.722	27.31	38.164	40.036	19.136	-0.48506	-0.17874	0.592866	1.165076	-0.75779
AE003852	1936750	56.598	25.926	30.628	24.35	16.484	0.171288	-0.37141	-0.39312	-1.0059	-1.19277
AE003852	1937250	17.03	13.906	16.03	10.804	4.648	-3.61369	-2.03747	-2.30207	-2.88083	-3.12954
AE003852	1937750	11.068	3.096	7.88	2.12	3.086	-4.18501	-3.53591	-3.3683	-4.08316	-3.38629
AE003852	1938250	17.506	7.816	12.642	5.402	9.58	-3.57055	-2.883	-2.74699	-3.63013	-2.32571
AE003852	1938750	46.344	34.312	33.862	23.954	19.44	-0.81403	0.786531	0.025289	-1.06469	-0.71472
AE003852	1939250	66.598	27.88	36.514	30.788	21.968	1.121623	-0.10543	0.370827	-0.12029	-0.30267
AE003852	1939750	66.268	33.194	41.922	33.734	22.878	1.088878	0.629773	1.07656	0.286253	-0.1552
AE003852	1940250	56.49	25.41	35.766	34.364	17.586	0.152644	-0.44948	0.270936	0.372403	-1.02188

AE003852	1940750	58.334	40.118	39.346	29.172	16.61	0.327793	1.587065	0.737759	-0.34685	-1.18281
AE003852	1941250	65.59	40.958	45.83	37.59	22.248	1.020479	1.702488	1.58412	0.816677	-0.2622
AE003852	1941750	69.06	32.002	32.77	32.32	17.432	1.351118	0.460879	-0.12382	0.086633	-1.05105
AE003852	1942250	59.264	19.744	35.18	32.946	19.748	0.413163	-1.23815	0.190087	0.17223	-0.67367
AE003852	1942750	66.37	26.464	34.368	26.806	18.374	1.091504	-0.30818	0.082897	-0.67817	-0.89967
AE003852	1943250	59.376	29.614	30.746	37.224	20.878	0.421497	0.127246	-0.39155	0.762036	-0.49155
AE003852	1943750	58.924	41.28	37.026	36.932	16.514	0.377086	1.742386	0.428154	0.720639	-1.20648
AE003852	1944250	61.888	35.308	40.312	32.064	11.668	0.659338	0.914148	0.856552	0.046206	-2.00024
AE003852	1944750	58.544	31.276	43.848	33.36	17.26	0.338371	0.354657	1.317624	0.22449	-1.08716
AE003852	1945250	58.906	32.218	31.71	24.57	24.746	0.3718	0.48421	-0.26982	-0.9925	0.135635
AE003852	1945750	64.078	35.37	29.032	32.718	23.532	0.865198	0.919912	-0.62088	0.133672	-0.06421
AE003852	1946250	59.354	32.228	33.59	27.22	21.656	0.412265	0.483712	-0.02624	-0.62791	-0.37231
AE003852	1946750	60.196	30.398	34.168	27.76	19.972	0.491596	0.229262	0.048234	-0.55421	-0.649
AE003852	1947250	69.386	31.282	25.89	40.44	24.774	1.369225	0.35078	-1.03472	1.198912	0.134895
AE003852	1947750	67.7	27.012	21.1	27.694	19.974	1.206809	-0.24168	-1.66182	-0.56535	-0.65134
AE003852	1948250	53.528	29.676	36.276	40.856	23.182	-0.14961	0.126418	0.320543	1.254456	-0.12809
AE003852	1948750	48.27	23.44	34.838	43.684	25.336	-0.65361	-0.73839	0.131538	1.644674	0.222805
AE003852	1949250	54.662	20.75	29.124	30.494	23.56	-0.04355	-1.11198	-0.61632	-0.18101	-0.06894
AE003852	1949750	61.982	25.742	38.178	31.406	20.848	0.655259	-0.42138	0.565929	-0.05585	-0.51374
AE003852	1950250	49.654	26.992	31.51	38.106	20.726	-0.52483	-0.24916	-0.30661	0.870017	-0.53502
AE003852	1950750	43.186	27.362	32.248	36.004	16.296	-1.14453	-0.19885	-0.21122	0.578228	-1.26075
AE003852	1951250	52.766	29.58	30.098	34.84	17.388	-0.22961	0.10747	-0.49328	0.4162	-1.08351
AE003852	1951750	62.638	29.858	23.392	25.66	24.532	0.713238	0.145039	-1.37079	-0.85475	0.083356
AE003852	1952250	42.576	26.888	29.044	14.104	23.068	-1.20643	-0.26733	-0.63317	-2.45438	-0.15737
AE003852	1952750	55.806	24.042	30.434	15.736	21.828	0.057535	-0.66253	-0.45257	-2.22962	-0.36146
AE003852	1953250	46.9	35.606	30.572	21.22	19.646	-0.79531	0.93848	-0.4356	-1.47197	-0.7196
AE003852	1953750	42.89	25.42	27.79	30.416	20.304	-1.17997	-0.47352	-0.80025	-0.20082	-0.61333
AE003852	1954250	52.548	33.646	23	28.698	24.31	-0.25758	0.665079	-1.42735	-0.43949	0.040407
AE003852	1954750	52.33	25.092	25.226	27.67	20.974	-0.27962	-0.52084	-1.13749	-0.5827	-0.50643
AE003852	1955250	58.94	25.048	29.62	26.516	20.136	0.351292	-0.52788	-0.56428	-0.74335	-0.64479
AE003852	1955750	80.506	27.604	28.556	18.524	22.592	2.412406	-0.17474	-0.7044	-1.84995	-0.24451
AE003852	1956250	62.96	23.512	25.702	38.608	21.258	0.733338	-0.74254	-1.07847	0.927434	-0.46398
AE003852	1956750	46.106	17.082	25.104	32.482	14.856	-0.87956	-1.63423	-1.15769	0.078972	-1.51217
AE003852	1957250	40.938	18.764	27.02	29.29	22.708	-1.37495	-1.40216	-0.90835	-0.36361	-0.22953
AE003852	1957750	54.582	23.262	34.33	30.68	18.886	-0.07139	-0.78	0.045967	-0.17232	-0.85584
AE003852	1958250	55.44	26.248	37.756	22.622	22.986	0.009468	-0.36729	0.492663	-1.28805	-0.18673
AE003852	1958750	47.504	24.972	31.424	28.524	30.462	-0.75062	-0.545	-0.33596	-0.47258	1.034423

AE003852	1959250	53.824	30.024	34.87	25.13	32.488	-0.14744	0.15391	0.113346	-0.9431	1.364387
AE003852	1959750	62.966	26.87	28.512	31.912	22.904	0.725596	-0.28395	-0.71868	-0.00589	-0.20413
AE003852	1960250	46.902	16.664	24.782	24.524	18.808	-0.81175	-1.69872	-1.20724	-1.02894	-0.87524
AE003852	1960750	36.846	26.724	24.13	34.986	21.846	-1.77457	-0.30606	-1.29352	0.417352	-0.37979
AE003852	1961250	49.036	21.192	51.25	32.906	31.088	-0.61006	-1.07335	2.249869	0.128606	1.130139
AE003852	1961750	59.74	24.316	47.686	38.516	19.658	0.41235	-0.64152	1.783006	0.90368	-0.74024
AE003852	1962250	63.83	26.166	24.968	35.744	18.226	0.802278	-0.38619	-1.18719	0.519205	-0.97573
AE003852	1962750	59.886	20.268	26.692	33.856	12.84	0.423935	-1.20417	-0.96294	0.25702	-1.85779
AE003852	1963250	51.078	15.608	29.732	31.316	14.298	-0.41954	-1.85066	-0.56669	-0.09536	-1.6207
AE003852	1963750	42.184	23.342	40.556	36.752	24.256	-1.27124	-0.78022	0.846889	0.655643	0.006314
AE003852	1964250	46.466	29.79	29.55	29.484	38.654	-0.86295	0.112077	-0.59261	-0.3508	2.359363
AE003852	1964750	54.122	34.652	26.322	26.494	32.91	-0.13201	0.784665	-1.01556	-0.76543	1.418768
AE003852	1965250	58.698	27.48	25.206	33.058	31.832	0.30439	-0.20981	-1.16248	0.141615	1.241162
AE003852	1965750	57.606	31.558	27.186	33.664	27.928	0.198777	0.354172	-0.90477	0.224445	0.601446
AE003852	1966250	55.924	34.102	33.616	26.074	17.57	0.036743	0.705649	-0.06546	-0.82654	-1.09364
AE003852	1966750	54.358	42.778	37.672	37.364	20.15	-0.1142	1.906586	0.463571	0.734291	-0.67308
AE003852	1967250	53.526	26.53	35.612	33.402	22.95	-0.19495	-0.34518	0.193274	0.185193	-0.21655
AE003852	1967750	36.082	23.058	34.814	30.166	13.648	-1.86426	-0.82709	0.087914	-0.26347	-1.73896
AE003852	1968250	49.114	28.662	34.422	26.932	14.55	-0.61923	-0.05172	0.035616	-0.71186	-1.59279
AE003852	1968750	66.058	21.762	39.634	39.282	21.81	0.999892	-1.00851	0.715733	0.995614	-0.40695
AE003852	1969250	64.5	23.302	35.046	32.904	27.672	0.849717	-0.79612	0.115039	0.112291	0.550277
AE003852	1969750	38.044	25.412	25.966	20.886	16.338	-1.68139	-0.50476	-1.07274	-1.55126	-1.3044
AE003852	1970250	40.884	21.036	33.962	22.754	23.672	-1.411	-1.11191	-0.02877	-1.29384	-0.10647
AE003852	1970750	58.59	18.88	20.572	28.28	16.22	0.280994	-1.41152	-1.77984	-0.53039	-1.32636
AE003852	1971250	55.74	25.816	27.244	28.184	7.152	0.007268	-0.45162	-0.90891	-0.54467	-2.8105
AE003852	1971750	53.598	34.812	28.058	30.918	8.844	-0.19875	0.793646	-0.80359	-0.16746	-2.53515
AE003852	1972250	55.326	33.45	37.17	30.31	21.528	-0.0347	0.604028	0.386242	-0.25257	-0.46238
AE003852	1972750	47.038	31.558	37.764	39.628	26.828	-0.82845	0.340989	0.46281	1.03546	0.402958
AE003852	1973250	46.058	19.936	28.074	39.312	22.864	-0.92335	-1.26994	-0.80469	0.990743	-0.24657
AE003852	1973750	54.852	22.096	30.34	36.03	23.574	-0.08359	-0.97166	-0.5096	0.535715	-0.1318
AE003852	1974250	47.004	21.926	36.05	38.272	18.846	-0.83526	-0.99615	0.235602	0.844866	-0.90626
AE003852	1974750	52.24	20.188	26.338	32.338	30.56	-0.33574	-1.23785	-1.03477	0.022966	1.007901
AE003852	1975250	60.1	27.746	33.506	26.708	14.934	0.4147	-0.19179	-0.09902	-0.75688	-1.54861
AE003852	1975750	54.136	33.228	40.05	17.04	24.804	-0.15681	0.566682	0.755186	-2.09533	0.064013
AE003852	1976250	52.092	36.144	36.68	24.622	27.078	-0.35346	0.969692	0.313678	-1.04746	0.434531
AE003852	1976750	71.544	33.058	35.958	35.162	34.406	1.505497	0.541249	0.218251	0.409623	1.631485
AE003852	1977250	70.42	24.836	47.882	34.68	28.57	1.396823	-0.59868	1.775593	0.341942	0.675846

AE003852	1977750	51.994	29.334	45.606	26.24	29.06	-0.3664	0.023483	1.477066	-0.82663	0.754641
AE003852	1978250	46.734	24.992	38.5	29.264	21.988	-0.87059	-0.57895	0.547281	-0.4093	-0.40311
AE003852	1978750	46.814	19.758	37.318	30.038	25.384	-0.86412	-1.30496	0.391734	-0.30323	0.150878
AE003852	1979250	54.4	25.428	44.296	33.812	19.84	-0.13988	-0.52044	1.302659	0.217855	-0.75701
AE003852	1979750	56.276	28.574	37.762	27.382	24.246	0.038328	-0.08557	0.447632	-0.67266	-0.03787
AE003852	1980250	62.008	25.774	30.668	21.976	22.438	0.585277	-0.47439	-0.48058	-1.42152	-0.33484
AE003852	1980750	57.178	26.566	26.612	34.048	27.552	0.122208	-0.36562	-1.01175	0.247495	0.500074
AE003852	1981250	36.79	31.028	31.866	22.258	17.428	-1.82863	0.25156	-0.32614	-1.38451	-1.15675
AE003852	1981750	59.696	34.62	32.906	43.604	18.514	0.360622	0.748215	-0.19128	1.567449	-0.98049
AE003852	1982250	60.126	26.852	37.48	37.77	25.628	0.400554	-0.32882	0.405449	0.759383	0.18147
AE003852	1982750	67.404	33.894	31.924	27.14	25.936	1.095343	0.645759	-0.32176	-0.71215	0.230505
AE003852	1983250	70.588	22.758	28.544	37.69	21.954	1.398633	-0.89784	-0.76457	0.746311	-0.42197
AE003852	1983750	68.21	27.294	29.07	34.072	24.964	1.170043	-0.27042	-0.69689	0.244801	0.068903
AE003852	1984250	76.246	33.788	32.902	34.154	21.816	1.937317	0.62825	-0.19714	0.255143	-0.44719
AE003852	1984750	67.008	29.912	38.052	33.93	22.228	1.052723	0.09037	0.474879	0.223152	-0.38115
AE003852	1985250	54.896	34.438	40.106	36.856	30.554	-0.10671	0.716411	0.742261	0.626927	0.978998
AE003852	1985750	62.444	22.51	27.902	30.656	23.634	0.613903	-0.93691	-0.85381	-0.23177	-0.1539
AE003852	1986250	63.532	21.856	16.828	30.388	21.826	0.716757	-1.02845	-2.30219	-0.26985	-0.45087
AE003852	1986750	57.288	27.014	21.442	25.52	27.574	0.118471	-0.31485	-1.70023	-0.94428	0.487716
AE003852	1987250	61.416	24.168	22.442	32.762	31.278	0.512034	-0.71005	-1.5706	0.056562	1.092069
AE003852	1987750	46.094	23.418	26.626	31.872	30.486	-0.95436	-0.81489	-1.02484	-0.06756	0.961231
AE003852	1988250	43.952	26.704	29.496	30.234	28.006	-1.16038	-0.36062	-0.65081	-0.29516	0.554368
AE003852	1988750	46	31.33	33.078	26.938	19.564	-0.96572	0.279271	-0.18372	-0.75213	-0.82741
AE003852	1989250	42.67	33.378	31.402	35.238	25.796	-1.28535	0.562037	-0.40383	0.395077	0.190327
AE003852	1989750	43.538	20.154	36.568	35.678	17.738	-1.20353	-1.27081	0.270273	0.454944	-1.12866
AE003852	1990250	50.752	16.9	31.858	31.632	20.818	-0.51487	-1.72253	-0.34637	-0.10577	-0.62634
AE003852	1990750	42.836	22.884	35.906	27.33	20.186	-1.27304	-0.89451	0.181622	-0.70191	-0.73102
AE003852	1991250	56.892	27.304	31.794	25.146	22.146	0.069911	-0.28316	-0.35686	-1.00504	-0.41184
AE003852	1991750	58.342	23.102	43.394	32.612	23.424	0.207383	-0.8662	1.158135	0.026789	-0.20419
AE003852	1992250	41.308	21.862	38.718	32.958	22.696	-1.42272	-1.03892	0.54594	0.073652	-0.32457
AE003852	1992750	45.564	24.876	27.954	43.414	13.056	-1.01692	-0.62233	-0.86193	1.519113	-1.90224
AE003852	1993250	53.226	30.114	31.166	31.31	28.476	-0.28541	0.102344	-0.4432	-0.15633	0.617927
AE003852	1993750	62.192	30.992	30.178	35.682	26.452	0.570797	0.223031	-0.57339	0.447478	0.285631
AE003852	1994250	62.658	30.676	24.592	36.916	20.734	0.614171	0.178314	-1.30452	0.617185	-0.65071
AE003852	1994750	58.266	27.936	22.746	42.332	18.58	0.192987	-0.2022	-1.54685	1.365421	-1.00427
AE003852	1995250	55.284	35.262	28.352	43.688	20.166	-0.09336	0.811726	-0.81524	1.552005	-0.74625
AE003852	1995750	51.302	27.872	35.446	40.332	28.518	-0.47534	-0.21295	0.110848	1.08674	0.618147

AE003852	1996250	49.316	26.77	41.03	36.122	29.666	-0.66644	-0.36655	0.839583	0.503335	0.80454
AE003852	1996750	55.648	28.896	29.334	51.048	25.692	-0.06212	-0.07298	-0.69009	2.567167	0.153377
AE003852	1997250	57.524	27.506	20.938	30.894	23.902	0.116091	-0.26647	-1.78847	-0.2219	-0.14066
AE003852	1997750	42.976	24.358	24.424	29.024	20.894	-1.27629	-0.7035	-1.33393	-0.4816	-0.63386
AE003852	1998250	47.854	29.414	34.652	29.604	17.678	-0.811	-0.00404	0.001748	-0.40236	-1.16107
AE003852	1998750	46.584	22.24	27.192	32.596	22.422	-0.93364	-0.99879	-0.9743	0.010543	-0.38666
AE003852	1999250	41.658	28.162	27.932	32.628	22.742	-1.40589	-0.17936	-0.87865	0.013967	-0.33566
AE003852	1999750	45.254	29.566	29.546	32.516	22.27	-1.0632	0.014188	-0.66878	-0.00253	-0.41417
AE003852	2000250	49.702	23.636	33.992	20.752	22.666	-0.63903	-0.80823	-0.08877	-1.63094	-0.35075
AE003852	2000750	42.452	20.772	22.694	25.372	17.078	-1.33352	-1.20592	-1.56643	-0.99282	-1.26583
AE003852	2001250	39.212	26.282	21.17	24.244	18.028	-1.64454	-0.44357	-1.76667	-1.14987	-1.11182
AE003852	2001750	45.352	27.716	29.688	33.244	16.586	-1.05858	-0.24586	-0.65448	0.094172	-1.34894
AE003852	2002250	37.574	30.522	38.818	36.518	17.964	-1.80356	0.141914	0.5377	0.546088	-1.12494
AE003852	2002750	40.194	34.874	32.612	31.486	17.216	-1.5542	0.743851	-0.27446	-0.15103	-1.24858
AE003852	2003250	51.864	32.37	25.288	37.598	25.202	-0.43942	0.396033	-1.23273	0.693488	0.055967
AE003852	2003750	62.64	27.972	28.432	29.08	22.434	0.589878	-0.21416	-0.82289	-0.48588	-0.39799
AE003852	2004250	60.382	26.848	30.326	22.048	24.98	0.372763	-0.37081	-0.57642	-1.45967	0.017006
AE003852	2004750	67.54	28.92	32.016	30.404	27.41	1.056076	-0.08472	-0.35661	-0.30472	0.413033
AE003852	2005250	66.8	30.64	26.838	39.612	26.12	0.984124	0.15261	-1.03442	0.968092	0.200761
AE003852	2005750	55.182	30.426	32.254	39.61	15.06	-0.12806	0.122024	-0.32764	0.966813	-1.60911
AE003852	2006250	43.342	33.858	37.826	35.074	17.754	-1.26148	0.596514	0.399527	0.338309	-1.16992
AE003852	2006750	48.698	31.992	28.962	28.02	15.118	-0.75049	0.337077	-0.76002	-0.63853	-1.60229
AE003852	2007250	59.998	29.858	31.858	27.258	29.274	0.328914	0.040514	-0.38259	-0.74495	0.711188
AE003852	2007750	70.912	22.63	37.28	23.376	31.578	1.371404	-0.96172	0.324971	-1.28298	1.086612
AE003852	2008250	81.096	22.514	34.818	34.688	32.756	2.344087	-0.97873	0.002135	0.280901	1.27791
AE003852	2008750	58.08	21.132	28.764	35.35	25.464	0.141936	-1.17112	-0.79016	0.371478	0.084184
AE003852	2009250	41.312	26.306	28.954	37.154	28.428	-1.46273	-0.45531	-0.76639	0.620038	0.567531
AE003852	2009750	47.358	27.312	31.508	28.926	24.904	-0.88576	-0.31689	-0.43366	-0.51921	-0.01005
AE003852	2010250	45.758	28.892	30.96	30.462	19.092	-1.03995	-0.09896	-0.50635	-0.30773	-0.96176
AE003852	2010750	48.544	25.716	33.644	24.032	21.836	-0.77472	-0.53987	-0.15663	-1.19824	-0.51439
AE003852	2011250	50.976	19.356	33.59	35.53	25.152	-0.54334	-1.42185	-0.16475	0.391367	0.026517
AE003852	2011750	61.624	30.406	33.238	29.632	24.936	0.473712	0.107953	-0.21182	-0.42555	-0.01013
AE003852	2012250	56.22	40.018	41.178	28.612	20.492	-0.04425	1.438554	0.824831	-0.56766	-0.73815
AE003852	2012750	65.154	27.528	48.48	27.324	24.53	0.808901	-0.29262	1.778101	-0.74684	-0.07918
AE003852	2013250	54.238	31.026	33.24	34.436	16.826	-0.23616	0.191016	-0.21476	0.236016	-1.34028
AE003852	2013750	49.774	28.952	21.288	40.262	17.574	-0.66423	-0.09724	-1.77789	1.040971	-1.21929
AE003852	2014250	58.036	24.244	28.59	50.164	13.706	0.124661	-0.75037	-0.82462	2.409792	-1.85312

AE003852	2014750	57.886	27.088	26.406	40.032	22.394	0.109129	-0.35734	-1.11112	1.007149	-0.43378
AE003852	2015250	53.736	32.716	30.128	42.326	23.154	-0.28891	0.421364	-0.62574	1.323494	-0.31084
AE003852	2015750	59.444	24.48	37.96	35.192	24.008	0.25574	-0.7205	0.396796	0.335587	-0.17252
AE003852	2016250	74.334	26.776	36.148	39.232	28.582	1.678446	-0.40338	0.158912	0.893471	0.574099
AE003852	2016750	61.816	26.688	29.102	47.516	29.482	0.480193	-0.41652	-0.76303	2.038461	0.719938
AE003852	2017250	53.598	26.932	28.51	31.82	28.372	-0.30686	-0.38366	-0.84147	-0.1339	0.5371
AE003852	2017750	46.622	26.844	27.106	26.398	25.008	-0.97515	-0.39679	-1.02603	-0.88497	-0.01431
AE003852	2018250	62.36	30.032	37.792	32.696	21.05	0.52865	0.043901	0.369512	-0.01472	-0.66286
AE003852	2018750	61.774	23.464	37.296	32.832	29.408	0.471424	-0.8669	0.303622	0.003095	0.702519
AE003852	2019250	49.572	18.788	39.272	31.526	30.342	-0.69661	-1.5156	0.56081	-0.17858	0.853919
AE003852	2019750	53.5	19.038	31.42	29.602	25.628	-0.32217	-1.48191	-0.46647	-0.44574	0.08175
AE003852	2020250	44.496	19.578	36.682	31.376	32.44	-1.18439	-1.40805	0.220179	-0.20133	1.194327
AE003852	2020750	57.746	25.256	31.396	33.702	28.088	0.081485	-0.62242	-0.47174	0.11944	0.481353
AE003852	2021250	69.352	34.938	31.602	25.382	27.596	1.190149	0.717875	-0.44588	-1.03254	0.399571
AE003852	2021750	60.57	41.782	36.82	32.684	27.45	0.349161	1.665028	0.235019	-0.02339	0.374367
AE003852	2022250	69.664	34.354	47.538	47.926	23.438	1.217609	0.635091	1.634742	2.084154	-0.28301
AE003852	2022750	72.528	30.258	52.206	37.886	23.334	1.490298	0.066734	2.243761	0.694237	-0.30135
AE003852	2023250	63.686	23.844	48.932	39.886	24.134	0.643572	-0.82273	1.8148	0.969911	-0.17186
AE003852	2023750	60.956	29.2	33.018	42.13	17.21	0.381321	-0.08171	-0.26615	1.279339	-1.30541
AE003852	2024250	61.596	23.854	33.768	31.876	16.306	0.441335	-0.82323	-0.16919	-0.14018	-1.45456
AE003852	2024750	56.354	19.078	29.266	22.574	22.456	-0.06113	-1.48579	-0.75864	-1.42801	-0.45024
AE003852	2025250	48.838	20.054	46.358	32.534	21.31	-0.78106	-1.35153	1.47413	-0.05116	-0.63896
AE003852	2025750	57.246	23.564	37.758	26.252	15.8	0.021791	-0.86623	0.349087	-0.9212	-1.54129
AE003852	2026250	54.834	24.298	46.04	33.45	29.782	-0.21005	-0.76549	1.430438	0.073552	0.743732
AE003852	2026750	53.808	27.082	40.698	28.65	19.03	-0.30935	-0.38077	0.731199	-0.59147	-1.01578
AE003852	2027250	46.098	23.154	37.606	34.42	24.588	-1.04783	-0.92585	0.326025	0.205736	-0.10826
AE003852	2027750	49.574	22.522	34.702	34.948	24.892	-0.71662	-1.01434	-0.05458	0.277776	-0.05988
AE003852	2028250	48.866	27.274	38.22	32.46	20.232	-0.78551	-0.357	0.404141	-0.06741	-0.82321
AE003852	2028750	43.1	30.034	43.85	27.028	21.45	-1.33808	0.024403	1.138888	-0.81987	-0.62537
AE003852	2029250	38.984	37.544	21.008	28.442	25.118	-1.73287	1.063816	-1.84751	-0.62526	-0.02691
AE003852	2029750	40.824	29.004	23.504	34.054	35.442	-1.55811	-0.12017	-1.52236	0.150092	1.659955
AE003852	2030250	50.8	32.008	41.82	19.194	21.958	-0.60532	0.295035	0.870381	-1.90661	-0.54629
AE003852	2030750	50.148	34.538	42.434	23.636	17.792	-0.66885	0.644572	0.949562	-1.29312	-1.22885
AE003852	2031250	56.54	33.066	37.264	30.864	24.574	-0.05879	0.439715	0.272803	-0.29421	-0.12118
AE003852	2031750	54.004	25.164	35.956	32.164	24.958	-0.30249	-0.65588	0.100789	-0.11538	-0.05972
AE003852	2032250	60.34	30.608	34.966	23.474	22.27	0.302219	0.097327	-0.02966	-1.31854	-0.50059
AE003852	2032750	60.636	31.666	38.978	28.722	24.664	0.329336	0.24295	0.493618	-0.59354	-0.11045

AE003852	2033250	46.332	36.534	37.422	43.858	21.748	-1.03971	0.916368	0.289191	1.499342	-0.58861
AE003852	2033750	45.644	30.25	38.422	42.854	20.49	-1.10669	0.044909	0.418821	1.359448	-0.79565
AE003852	2034250	44.682	24.206	30.91	40.984	18.988	-1.19987	-0.7933	-0.56403	1.099753	-1.04259
AE003852	2034750	45.9	23.888	29.828	29.222	19.734	-1.08458	-0.8383	-0.7065	-0.52838	-0.92193
AE003852	2035250	55.234	38.62	42.562	24.08	21.01	-0.19318	1.201573	0.956702	-1.24072	-0.71461
AE003852	2035750	68.332	46.436	40.162	23.466	26.412	1.058158	2.283376	0.641969	-1.32666	0.167403
AE003852	2036250	77.046	37.826	34.986	25.182	18.734	1.890268	1.089698	-0.03557	-1.09027	-1.08944
AE003852	2036750	67.202	39.226	25.328	36.444	15.304	0.947722	1.282697	-1.29889	0.466687	-1.65165
AE003852	2037250	55.574	49.692	23.922	37.45	25.048	-0.16542	2.731602	-1.48372	0.604852	-0.05963
AE003852	2037750	56.626	41.956	24.062	32.902	30.088	-0.06601	1.658998	-1.46648	-0.02531	0.763189
AE003852	2038250	56.914	23.538	26.488	23.872	27.662	-0.03966	-0.89337	-1.15048	-1.27551	0.365157
AE003852	2038750	54.646	31.304	24.494	30.452	24.064	-0.25773	0.181502	-1.41215	-0.36624	-0.22452
AE003852	2039250	61.04	26.2	30.466	28.95	21.8	0.352526	-0.52649	-0.63271	-0.57503	-0.59606
AE003852	2039750	52.084	28.99	40.474	22.998	25.27	-0.5051	-0.14094	0.674222	-1.39942	-0.02997
AE003852	2040250	59.506	28.386	34.164	17.182	27.056	0.203457	-0.22555	-0.15153	-2.205	0.260745
AE003852	2040750	63.404	26.42	44.404	32.614	26.662	0.575025	-0.49884	1.185722	-0.07117	0.194988
AE003852	2041250	70.974	37.102	45.808	39.952	24.658	1.297737	0.979986	1.368153	0.942955	-0.13404
AE003852	2041750	58.22	28.868	38.532	34.87	19.758	0.076916	-0.16161	0.41615	0.238919	-0.93662
AE003852	2042250	41.066	25.646	31.022	39.58	24.336	-1.56467	-0.60889	-0.56644	0.889489	-0.18935
AE003852	2042750	42.994	39.498	32.978	28.286	35.04	-1.38148	1.309077	-0.31186	-0.6739	1.55965
AE003852	2043250	60.796	27.574	34.38	28.202	32.746	0.319689	-0.34369	-0.12969	-0.68653	1.183203
AE003852	2043750	49.544	21.37	40.212	32.312	33.57	-0.7575	-1.20406	0.631456	-0.11896	1.316615
AE003852	2044250	53.348	32.962	38.544	34.688	30.236	-0.39492	0.400825	0.412391	0.208729	0.770105
AE003852	2044750	63.766	31.926	35.836	38.354	21.442	0.600138	0.256367	0.057404	0.714874	-0.66923
AE003852	2045250	51.972	32.966	38.044	34.776	21.36	-0.52888	0.399496	0.344913	0.218898	-0.68397
AE003852	2045750	57.098	32.382	32.916	37.678	29.664	-0.03988	0.317653	-0.32636	0.619353	0.672582
AE003852	2046250	51.428	28.338	33.17	27.128	33.698	-0.58328	-0.2435	-0.29423	-0.84112	1.330898
AE003852	2046750	50.542	40.35	45.49	32.996	25.22	-0.66919	1.41957	1.314872	-0.03035	-0.05677
AE003852	2047250	64.252	31.284	31.712	36.964	21.096	0.640673	0.162723	-0.48691	0.517572	-0.73246
AE003852	2047750	53.13	32.872	28.402	40.12	23.798	-0.42408	0.381766	-0.92058	0.953165	-0.29195
AE003852	2048250	60.516	38.846	30.986	33.698	26.884	0.281033	1.208397	-0.58393	0.063756	0.211345
AE003852	2048750	58.044	43.012	36.032	41.394	29.318	0.043454	1.784568	0.074496	1.127403	0.608026
AE003852	2049250	60.47	33.564	40.072	32.914	26.206	0.274258	0.474803	0.601439	-0.04671	0.097819
AE003852	2049750	48.034	17.078	31.412	25.068	23.772	-0.91615	-1.80993	-0.53145	-1.13311	-0.30152
AE003852	2050250	54.654	25.56	30.626	30.068	25.744	-0.28429	-0.63587	-0.63524	-0.44242	0.019613
AE003852	2050750	53.918	33.694	25.446	30.39	28.104	-0.35586	0.489987	-1.3133	-0.39888	0.404193
AE003852	2051250	58.352	24.626	20.656	24.824	28.792	0.066967	-0.76714	-1.9404	-1.16987	0.515366

AE003852	2051750	52.512	28.344	25.96	28.122	17.186	-0.49269	-0.25303	-1.24826	-0.71463	-1.38379
AE003852	2052250	56.974	32.148	30.476	38.312	17.88	-0.06718	0.272996	-0.6591	0.694028	-1.27164
AE003852	2052750	55.846	27.03	32.282	34.478	19.972	-0.17624	-0.43694	-0.42413	0.162638	-0.93088
AE003852	2053250	56.144	33.894	36.122	26.612	22.024	-0.14893	0.512984	0.07667	-0.92653	-0.59666
AE003852	2053750	57.622	28.372	28.602	29.314	16.118	-0.00878	-0.25292	-0.90722	-0.55374	-1.56375
AE003852	2054250	51.074	31.976	23.532	30.854	16.164	-0.63614	0.245402	-1.57091	-0.34171	-1.55756
AE003852	2054750	51.948	35.556	35.23	31.028	18.756	-0.55375	0.740395	-0.04311	-0.31864	-1.13504
AE003852	2055250	61.234	46.708	28.54	30.272	17.874	0.333062	2.284331	-0.91852	-0.42422	-1.2806
AE003852	2055750	53.368	37.124	39.774	49.792	23.752	-0.42033	0.955725	0.54864	2.275133	-0.32075
AE003852	2056250	50.556	24.504	23.836	36.494	23.934	-0.69042	-0.79345	-1.53544	0.434511	-0.29232
AE003852	2056750	49.016	31.826	36.03	34.17	20.46	-0.83888	0.219914	0.057187	0.112011	-0.86172
AE003852	2057250	47.16	38.888	34.874	25.834	15.11	-1.01755	1.197266	-0.09496	-1.04218	-1.73789
AE003852	2057750	57.37	32.414	31.014	24.638	18.64	-0.04238	0.299486	-0.60051	-1.20863	-1.16199
AE003852	2058250	59.572	24.536	32.194	34.72	22.132	0.167001	-0.79279	-0.44736	0.185089	-0.5923
AE003852	2058750	61.08	27.76	30.578	34.706	21.178	0.310019	-0.34711	-0.65962	0.18215	-0.74963
AE003852	2059250	67.886	40.184	30.982	32.33	19.568	0.959672	1.373033	-0.60789	-0.14754	-1.01423
AE003852	2059750	74.054	44.734	30.386	24.828	22.352	1.548314	2.002399	-0.68685	-1.18636	-0.56031
AE003852	2060250	76.59	31.01	38.084	44.674	22.504	1.789637	0.100283	0.318177	1.558097	-0.53679
AE003852	2060750	64.984	34.054	33.056	40.33	19.96	0.678597	0.521024	-0.34002	0.956154	-0.95412
AE003852	2061250	59.488	37.12	36.24	32.49	18.156	0.15184	0.944813	0.075044	-0.12942	-1.25044
AE003852	2061750	67.774	34.778	38.076	26.802	26.342	0.943021	0.619436	0.313935	-0.91729	0.086818
AE003852	2062250	74.168	21.558	34.454	36.064	29.07	1.553276	-1.21286	-0.16051	0.362997	0.531574
AE003852	2062750	75.144	26.506	40.842	41.976	32.986	1.64542	-0.52836	0.673306	1.179849	1.170594
AE003852	2063250	71.948	33.316	37.768	36.21	30.136	1.338607	0.414081	0.270484	0.381189	0.703228
AE003852	2063750	52.474	25.738	41.664	24.898	26.76	-0.52483	-0.63663	0.778607	-1.18469	0.149851
AE003852	2064250	75.11	26.11	60.612	33.292	25.872	1.638605	-0.58604	3.253951	-0.02449	0.003315
AE003852	2064750	78.802	35.918	50.894	38.23	26.394	1.990474	0.771709	1.982791	0.657625	0.087343
AE003852	2065250	73.572	28.258	38.456	29.482	33.746	1.489154	-0.29037	0.356141	-0.55356	1.288222
AE003852	2065750	70.29	23.63	48.032	19.424	35.152	1.174116	-0.93242	1.606611	-1.94597	1.516803
AE003852	2066250	58.338	29.538	38.76	24.478	27.222	0.029988	-0.11493	0.393741	-1.24781	0.21875
AE003852	2066750	59.022	33.706	26.968	34.144	32.378	0.09421	0.461516	-1.14848	0.088366	1.060536
AE003852	2067250	81.566	29.73	33.432	44.404	34.392	2.248848	-0.09022	-0.30473	1.506713	1.388538
AE003852	2067750	69.416	21.964	42.128	38.306	34.488	1.085786	-1.16698	0.830726	0.662125	1.402906
AE003852	2068250	62.702	30.018	26.512	27.146	31.546	0.442555	-0.0522	-1.21127	-0.88273	0.920497
AE003852	2068750	60.972	30.558	31.966	22.324	21.098	0.275931	0.021659	-0.49953	-1.5508	-0.7893
AE003852	2069250	71.05	34.124	41.398	23.402	24.458	1.238477	0.514713	0.732122	-1.40267	-0.2412
AE003852	2069750	61.09	33.388	40.286	28.652	19.036	0.284839	0.411813	0.585723	-0.6774	-1.12914

AE003852	2070250	62.76	24.208	33.602	30.91	21.436	0.443349	-0.86083	-0.28891	-0.36604	-0.73802
AE003852	2070750	60.466	24.602	30.904	35.42	28.68	0.222792	-0.80719	-0.64259	0.256867	0.445197
AE003852	2071250	65.92	26.294	29.666	21.824	25.898	0.743156	-0.57374	-0.80545	-1.62498	-0.01105
AE003852	2071750	62.546	22.468	30	30.9	28.296	0.419321	-1.10469	-0.76287	-0.37043	0.379746
AE003852	2072250	51.296	18.11	34.356	42.2	39.982	-0.65768	-1.70934	-0.19463	1.191792	2.289326
AE003852	2072750	55.73	31.384	44.302	39.85	41.164	-0.23485	0.128551	1.104202	0.865695	2.481278
AE003852	2073250	60.276	35.968	39.174	36.518	40.67	0.198683	0.762627	0.432932	0.40375	2.399169
AE003852	2073750	66.03	33.532	37.34	28.912	29.496	0.747735	0.424228	0.192172	-0.64945	0.570653
AE003852	2074250	76.396	44.278	23.888	35.442	30.238	1.737822	1.911921	-1.567	0.252893	0.690656
AE003852	2074750	71.32	41.974	37.278	36.01	36.624	1.251229	1.591808	0.181938	0.330467	1.733573
AE003852	2075250	47.298	36.354	34.024	41.1	37.262	-1.04712	0.812333	-0.24441	1.033605	1.83657
AE003852	2075750	46.416	32.41	38.772	25.712	26.304	-1.13265	0.265032	0.375066	-1.09614	0.043375
AE003852	2076250	59.936	46.018	41.68	30.252	32.222	0.159041	2.149195	0.754061	-0.46909	1.009764
AE003852	2076750	49.038	33.492	32.916	28.48	32.608	-0.8843	0.413037	-0.39242	-0.71523	1.071554
AE003852	2077250	56.654	27.09	40.37	23.61	22.83	-0.15718	-0.47477	0.58072	-1.38994	-0.52869
AE003852	2077750	67.08	30.432	34.506	30.738	22.578	0.83864	-0.01275	-0.18674	-0.40487	-0.57122
AE003852	2078250	62.548	31.158	30.602	24.608	11.708	0.404068	0.086885	-0.69804	-1.25388	-2.35003
AE003852	2078750	67.804	29.898	30.584	41.738	18.044	0.905498	-0.0886	-0.70146	1.114848	-1.31529
AE003852	2079250	49.332	37.704	20.024	35.814	23.582	-0.86212	0.991814	-2.08266	0.294331	-0.41104
AE003852	2079750	57.454	30.998	24.964	33.604	24.64	-0.08662	0.061895	-1.4381	-0.0124	-0.23936
AE003852	2080250	61.638	38.886	27.838	33.504	27.874	0.312295	1.153672	-1.06354	-0.02723	0.288137
AE003852	2080750	64.112	43.162	31.718	45.628	23.53	0.54769	1.745081	-0.55751	1.648974	-0.42353
AE003852	2081250	38.946	30.024	38.096	38.38	28.746	-1.86006	-0.07586	0.274996	0.645297	0.428068
AE003852	2081750	52.504	26.268	47.294	33.732	33.312	-0.56473	-0.59711	1.476063	0.001299	1.173377
AE003852	2082250	50.486	22.29	49.066	29.008	18.992	-0.75889	-1.14913	1.706589	-0.65321	-1.16958
AE003852	2082750	51.956	28.308	45.12	33.508	23.202	-0.61951	-0.3164	1.189801	-0.03169	-0.48248
AE003852	2083250	49.74	37.172	21.17	47.606	21.89	-0.83261	0.910583	-1.94141	1.917595	-0.69835
AE003852	2083750	37.194	31.052	30.694	59.296	21.476	-2.03354	0.061843	-0.69774	3.533765	-0.76738
AE003852	2084250	37.718	31.682	31.166	43.634	23.272	-1.98462	0.148174	-0.63711	1.366111	-0.47502
AE003852	2084750	45.51	38.088	37.55	31.344	20.614	-1.24068	1.034651	0.196178	-0.33507	-0.91099
AE003852	2085250	54.65	40.154	32.722	23.006	31.7	-0.36783	1.31991	-0.43588	-1.48953	0.900473
AE003852	2085750	57.088	34.936	39.178	31.444	33.84	-0.13588	0.596123	0.406819	-0.32324	1.249079
AE003852	2086250	58.598	25.108	41.946	42.872	26.222	0.007332	-0.76628	0.767517	1.256688	0.002045
AE003852	2086750	56.394	26.138	35.198	29.882	25.346	-0.20462	-0.62454	-0.11548	-0.54133	-0.14253
AE003852	2087250	49.452	25.17	38.058	29.402	29.194	-0.86965	-0.75958	0.257244	-0.60873	0.485371
AE003852	2087750	55.4	26.752	41.362	34.052	22.06	-0.30205	-0.54137	0.687995	0.033539	-0.68252
AE003852	2088250	80.642	30.722	33.278	37.066	20.274	2.110592	0.007653	-0.36961	0.449488	-0.9759

AE003852	2088750	51.18	20.226	27.958	34.088	23.09	-0.70797	-1.44729	-1.06597	0.036514	-0.51675
AE003852	2089250	45.772	28.55	37.8	31.034	16.766	-1.22631	-0.29512	0.219263	-0.38697	-1.55219
AE003852	2089750	55.74	26.174	38.978	32.938	28.48	-0.27429	-0.6252	0.372156	-0.12458	0.361968
AE003852	2090250	47.68	18.106	30.3	34.68	19.124	-1.04623	-1.7438	-0.76308	0.115403	-1.16927
AE003852	2090750	55.166	32.422	32.742	37.892	18.61	-0.33155	0.238444	-0.44499	0.558743	-1.25465
AE003852	2091250	54.116	30.848	35.674	37.366	31.424	-0.43315	0.019458	-0.06286	0.484975	0.839386
AE003852	2091750	46.372	32.898	42.35	41.422	26.35	-1.17488	0.302501	0.808598	1.045072	0.00835
AE003852	2092250	51.112	32.106	30.588	42.754	20.814	-0.72279	0.191844	-0.7297	1.228336	-0.89823
AE003852	2092750	46.784	21.366	34.54	31.442	25.362	-1.13786	-1.2969	-0.21426	-0.33755	-0.15587
AE003852	2093250	36.572	20	23.514	32.586	19.32	-2.11559	-1.48707	-1.65637	-0.18029	-1.14519
AE003852	2093750	59.908	34.564	35.92	31.148	29.844	0.114784	0.529524	-0.03603	-0.38022	0.574375
AE003852	2094250	53.688	32.862	51.378	28.158	30.304	-0.48121	0.292805	1.983185	-0.79486	0.648265
AE003852	2094750	49.856	26.262	44.326	28.448	21.946	-0.84884	-0.62243	1.060458	-0.75574	-0.71978
AE003852	2095250	60.262	29.93	32.3	37.29	27.792	0.145072	-0.11525	-0.51235	0.466442	0.23484
AE003852	2095750	56.658	30.13	31.124	41.438	25.582	-0.20076	-0.08848	-0.66711	1.039266	-0.12787
AE003852	2096250	51.4	25.748	33.502	31.842	22.552	-0.70476	-0.69646	-0.35738	-0.28923	-0.62467
AE003852	2096750	56.966	35.488	41.304	41.308	32.72	-0.17368	0.651875	0.661236	1.019277	1.036684
AE003852	2097250	63.368	35.684	30.936	44.962	26.81	0.437339	0.678085	-0.69488	1.523762	0.068944
AE003852	2097750	63.622	31.366	28.872	36.446	20.656	0.46044	0.078974	-0.9657	0.344673	-0.9387
AE003852	2098250	76.054	20.81	37.636	29.266	21.116	1.648093	-1.38428	0.17865	-0.6496	-0.86481
AE003852	2098750	69.274	24.554	43.344	25.214	19.458	0.998551	-0.86657	0.923592	-1.21115	-1.13725
AE003852	2099250	51.662	30.936	33.198	18.958	24.378	-0.68683	0.016581	-0.40351	-2.07759	-0.33406
AE003852	2099750	54.766	31.764	26.866	20.266	23.732	-0.39119	0.130342	-1.23213	-1.89765	-0.44102
AE003852	2100250	54.704	25.252	32.366	18.626	22.826	-0.39831	-0.7727	-0.51437	-2.12552	-0.5905
AE003852	2100750	63.356	27.528	34.536	26.38	29.066	0.427875	-0.45835	-0.23183	-1.05385	0.428541
AE003852	2101250	57.094	29.426	25.344	24.856	27.902	-0.17213	-0.19636	-1.43425	-1.26568	0.236872
AE003852	2101750	49.448	39.126	30.992	31.952	29.082	-0.90449	1.146427	-0.69715	-0.28504	0.428498
AE003852	2102250	56.306	39.576	28.948	32.354	29.408	-0.24986	1.207824	-0.96535	-0.23043	0.480476
AE003852	2102750	69.942	23.284	37.382	30.65	23.13	1.052926	-1.05004	0.135865	-0.46716	-0.54744
AE003852	2103250	52.606	29.796	41.532	36.832	20.706	-0.60606	-0.14888	0.677184	0.387045	-0.94515
AE003852	2103750	43.538	26.37	28.22	33.116	26.002	-1.4744	-0.62442	-1.06369	-0.12802	-0.08047
AE003852	2104250	33.6	29.61	28.684	23.248	24.062	-2.42593	-0.17652	-1.00412	-1.49414	-0.39903
AE003852	2104750	38.612	27.714	37.69	37.848	20.846	-1.94784	-0.44012	0.171857	0.524589	-0.92624
AE003852	2105250	46.566	21.556	32.098	37.48	24.212	-1.1884	-1.29412	-0.56006	0.472679	-0.37716
AE003852	2105750	56.608	28.518	36.478	36.074	28.628	-0.2293	-0.33062	0.011324	0.277173	0.343622
AE003852	2106250	51.548	39.186	40.46	44.012	28.112	-0.71436	1.146264	0.530686	1.374298	0.257916
AE003852	2106750	44.972	29.03	39.208	36.074	37.428	-1.3444	-0.26158	0.36599	0.275168	1.77995

AE003852	2107250	44.938	31.426	37.054	38.252	25.496	-1.34884	0.069394	0.083408	0.575466	-0.17252
AE003852	2107750	57.046	24.114	43.188	43.072	20.566	-0.19217	-0.94447	0.884025	1.241253	-0.98
AE003852	2108250	58.546	30.65	50.03	31.982	18.926	-0.04991	-0.03999	1.777175	-0.29392	-1.24951
AE003852	2108750	60.142	33.532	38.678	25.11	22.536	0.101521	0.358312	0.29246	-1.24558	-0.66053
AE003852	2109250	47.148	33.94	39.748	23.656	25.904	-1.14225	0.41389	0.431238	-1.44773	-0.11112
AE003852	2109750	46.356	35.712	35.002	33.934	29.106	-1.21918	0.658422	-0.19011	-0.02689	0.411149
AE003852	2110250	51.214	37.52	35.576	27.234	24.8	-0.75581	0.907941	-0.11615	-0.95476	-0.2943
AE003852	2110750	52.27	32.196	39.552	27.944	21.882	-0.65601	0.16947	0.402426	-0.85754	-0.77279
AE003852	2111250	54.726	29.772	36.046	34.698	25.686	-0.42234	-0.16727	-0.05686	0.075794	-0.15208
AE003852	2111750	60.94	39.224	33.64	34.718	34.594	0.170703	1.14117	-0.37237	0.077558	1.303235
AE003852	2112250	63.588	34.37	35.756	51.106	19.202	0.422737	0.467807	-0.09689	2.34364	-1.21501
AE003852	2112750	69.244	28.864	43.844	32.862	23.316	0.962418	-0.29588	0.959107	-0.1812	-0.54362
AE003852	2113250	55.608	27.184	34.452	26.778	29.626	-0.34275	-0.52955	-0.26945	-1.02385	0.486873
AE003852	2113750	60.48	31.644	33.714	31.396	27.752	0.121963	0.087352	-0.36696	-0.38601	0.179104
AE003852	2114250	65.646	35.06	30.262	29.134	23.842	0.614786	0.559626	-0.81919	-0.69993	-0.46159
AE003852	2114750	59.43	40.06	34.248	34.26	26.672	0.019178	1.25133	-0.2993	0.008185	-0.00016
AE003852	2115250	69.102	44.604	27.868	42.55	26.582	0.942899	1.879865	-1.1342	1.154005	-0.0162
AE003852	2115750	59.594	27.534	27.038	36.376	31.518	0.032485	-0.48577	-1.24375	0.298903	0.789607
AE003852	2116250	62.734	28.938	39.214	26.678	27.618	0.331567	-0.29222	0.346531	-1.0437	0.150544
AE003852	2116750	53.774	21.378	34.048	35.476	25.134	-0.52644	-1.34044	-0.32971	0.172394	-0.25697
AE003852	2117250	50.73	27.564	29.198	35.438	22.602	-0.81872	-0.48444	-0.96464	0.166135	-0.67234
AE003852	2117750	45.668	24.17	26.524	41.568	22.6	-1.30398	-0.95555	-1.31519	1.013145	-0.67399
AE003852	2118250	61.076	25.344	39.324	40.898	24.956	0.168265	-0.79386	0.356645	0.919456	-0.29007
AE003852	2118750	66.942	26.97	29.872	36.62	25.94	0.728028	-0.56955	-0.87975	0.326644	-0.13049
AE003852	2119250	60.4	36.5	51.858	32.486	24.746	0.101245	0.749691	1.992646	-0.24625	-0.32707
AE003852	2119750	68.194	32.936	48.874	33.034	25.776	0.845377	0.255031	1.601586	-0.17144	-0.15997
AE003852	2120250	48.578	40.628	53.62	30.376	18.594	-1.03164	1.319656	2.2208	-0.54015	-1.33571
AE003852	2120750	51.032	38.218	47.68	32.808	17.034	-0.79816	0.984859	1.443406	-0.20471	-1.59213
AE003852	2121250	56.174	23.296	39.542	32.178	21.018	-0.30763	-1.08321	0.378744	-0.29287	-0.94199
AE003852	2121750	60.052	33.864	29.6	30.716	22.372	0.062026	0.37982	-0.92169	-0.49612	-0.72191
AE003852	2122250	62.858	36.894	29.45	29.656	26.624	0.329169	0.798622	-0.94236	-0.64376	-0.02795
AE003852	2122750	70.986	24.078	37.984	38.336	26.7	1.105241	-0.97771	0.171925	0.556013	-0.01685
AE003852	2123250	56.21	25.266	44.326	35.854	24.098	-0.30894	-0.81408	0.999727	0.211655	-0.44366
AE003852	2123750	52.55	24.03	29.482	38.496	32.414	-0.66012	-0.98624	-0.94138	0.576142	0.914848
AE003852	2124250	46.034	34.236	28.792	36.546	32.422	-1.28442	0.426644	-1.03262	0.30538	0.914827
AE003852	2124750	45.662	33.946	32.566	36.522	33.544	-1.32118	0.385529	-0.54044	0.301058	1.096968
AE003852	2125250	50.852	31.634	30.238	31.71	29.138	-0.82606	0.064308	-0.84577	-0.36563	0.375164

AE003852	2125750	66.386	35.516	35.68	23.112	19.14	0.658227	0.601137	-0.13559	-1.55606	-1.26105
AE003852	2126250	61.948	37.802	32.174	34.79	25.618	0.232644	0.916873	-0.59487	0.058449	-0.20309
AE003852	2126750	52.74	25.044	34.88	30.806	16.718	-0.64908	-0.85142	-0.24228	-0.49369	-1.65976
AE003852	2127250	65.084	30.252	33.288	29.754	18.078	0.530156	-0.13091	-0.45141	-0.64023	-1.4387
AE003852	2127750	75.946	31.814	36.046	48.152	25.876	1.567674	0.084535	-0.09202	1.903916	-0.16489
AE003852	2128250	58.034	28.418	23.046	48.744	27.738	-0.14639	-0.38685	-1.79212	1.984809	0.138256
AE003852	2128750	53.398	19.87	28.088	28.06	16.852	-0.59091	-1.57194	-1.13422	-0.87758	-1.64317
AE003852	2129250	51.016	18.708	22.734	28.292	12.972	-0.81988	-1.73385	-1.83503	-0.84649	-2.27896
AE003852	2129750	49.328	29.926	34.402	32.834	13.848	-0.98249	-0.18077	-0.31114	-0.21916	-2.13704
AE003852	2130250	45.442	28.05	30.262	33.7	22.024	-1.35529	-0.4416	-0.85328	-0.10036	-0.80142
AE003852	2130750	47.248	33.746	36.182	32.02	25.57	-1.18377	0.346523	-0.08064	-0.33377	-0.22291
AE003852	2131250	39.25	38.712	31.652	24.874	31.224	-1.94979	1.033518	-0.67375	-1.32334	0.700314
AE003852	2131750	41.338	31.22	34.018	32.472	25.878	-1.75131	-0.00528	-0.36559	-0.27324	-0.1752
AE003852	2132250	64.432	32.702	44.25	38.092	33.336	0.455927	0.199074	0.970616	0.503213	1.043012
AE003852	2132750	64.71	30.984	47.342	21.54	28.392	0.481323	-0.03986	1.37366	-1.78756	0.233233
AE003852	2133250	57.84	24.444	43.046	31.608	23.578	-0.17683	-0.94678	0.811128	-0.39578	-0.55529
AE003852	2133750	54.026	29.516	35.688	36.586	35.966	-0.54274	-0.24511	-0.15159	0.291869	1.469084
AE003852	2134250	58.564	42.352	35.118	38.096	37.408	-0.10997	1.532114	-0.22715	0.499757	1.703552
AE003852	2134750	71.21	47.304	41.54	34.742	31.186	1.09815	2.217169	0.611105	0.034768	0.684793
AE003852	2135250	79.842	36.76	40.272	30.694	25.488	1.922418	0.755575	0.444318	-0.52623	-0.24828
AE003852	2135750	57.008	28.714	43.46	36.568	29.696	-0.26233	-0.35997	0.859909	0.285369	0.438487
AE003852	2136250	45.872	35.284	38.884	38.978	32.174	-1.32842	0.549223	0.260783	0.617761	0.842363
AE003852	2136750	67.964	33.354	29.91	26.54	24.016	0.782991	0.28092	-0.91314	-1.10389	-0.49297
AE003852	2137250	69.312	32.374	32.896	29.2	29.364	0.910709	0.14422	-0.52395	-0.73691	0.380209
AE003852	2137750	45.28	39.434	37.996	36.272	28.282	-1.3886	1.121294	0.141529	0.240411	0.20195
AE003852	2138250	33.342	36.062	50.806	35.918	30.218	-2.53139	0.653232	1.814667	0.190437	0.517197
AE003852	2138750	51.474	28.956	46.914	42.454	29.46	-0.79866	-0.3321	1.304937	1.093613	0.391918
AE003852	2139250	47.97	25.406	37.412	32.53	19.528	-1.13493	-0.82482	0.062007	-0.28026	-1.2335
AE003852	2139750	42.224	35.79	32.052	28.342	28.524	-1.68559	0.612727	-0.63958	-0.86062	0.236203
AE003852	2140250	60.812	37.234	43.354	32.06	27.59	0.090747	0.811821	0.836466	-0.34728	0.082145
AE003852	2140750	77.776	41.304	37.618	25.762	28.02	1.711784	1.374694	0.085734	-1.21954	0.151129
AE003852	2141250	60.42	27.552	35.834	31.308	23.32	0.050885	-0.5313	-0.14849	-0.45332	-0.61875
AE003852	2141750	52.116	21.446	24.854	33.896	26.29	-0.74439	-1.3781	-1.58459	-0.0963	-0.13442
AE003852	2142250	60.998	28.442	26.474	31.99	24.382	0.103782	-0.40989	-1.37393	-0.36097	-0.44775
AE003852	2142750	62.4	27.032	30.804	31.962	21.494	0.236664	-0.60616	-0.80908	-0.36585	-0.92133
AE003852	2143250	66.414	26.114	29.7	35.978	34.632	0.619324	-0.73427	-0.95444	0.188714	1.225684
AE003852	2143750	67.516	27.054	34.31	30.254	39.764	0.723518	-0.605	-0.353	-0.60414	2.063545

AE003852	2144250	65.34	31.178	33.008	27.744	30.01	0.514244	-0.03464	-0.52423	-0.95237	0.467229
AE003852	2144750	49.968	37.498	32.99	17.846	24.688	-0.95693	0.839918	-0.52765	-2.32264	-0.40436
AE003852	2145250	51.798	33.796	41.154	34.12	26.13	-0.78312	0.326141	0.538282	-0.07233	-0.16989
AE003852	2145750	46.188	39.132	40.43	41.746	15.136	-1.32078	1.064392	0.442594	0.981636	-1.96897
AE003852	2146250	53.098	29.044	34.128	26.16	18.274	-0.66118	-0.33403	-0.38211	-1.1755	-1.45717
AE003852	2146750	64.806	32.334	37.504	31.502	20.406	0.457239	0.120787	0.058049	-0.4375	-1.10988
AE003852	2147250	73.49	28.546	35.79	38.724	22.324	1.286481	-0.4049	-0.16703	0.560571	-0.79757
AE003852	2147750	75.562	42.732	30.12	46.996	26.136	1.483433	1.55933	-0.90913	1.703901	-0.17556
AE003852	2148250	68.022	25.978	34.374	34.906	25.784	0.761213	-0.76253	-0.35422	0.030392	-0.23445
AE003852	2148750	70.144	22.846	42.758	28.078	36.914	0.962947	-1.19734	0.740459	-0.91518	1.584214
AE003852	2149250	64.664	30.118	40.928	35.904	28.952	0.43772	-0.1909	0.500222	0.166448	0.280928
AE003852	2149750	66.332	32.308	43.926	34.93	30.914	0.596039	0.111535	0.89098	0.030705	0.600427
AE003852	2150250	50.536	28.668	43.27	26.644	23.46	-0.91568	-0.39365	0.804178	-1.11657	-0.61979
AE003852	2150750	55.946	38.394	34.414	33.748	20.696	-0.39952	0.95274	-0.35432	-0.13482	-1.07309
AE003852	2151250	58.636	37.26	34.36	32.292	27.27	-0.14347	0.794707	-0.36245	-0.33724	0.000567
AE003852	2151750	67.882	27.822	39.784	32.664	34.268	0.73951	-0.51367	0.345379	-0.28678	1.143559
AE003852	2152250	67.79	24.262	48.534	33.636	38.392	0.729524	-1.00778	1.487895	-0.15332	1.816591
AE003852	2152750	68.726	31.166	47.584	38.384	28.324	0.817843	-0.05232	1.362669	0.50251	0.168929
AE003852	2153250	63.44	33.674	33.782	26.458	28.298	0.311168	0.294174	-0.44225	-1.14831	0.163348
AE003852	2153750	62.664	30.714	40.026	25.724	22.48	0.235773	-0.11681	0.372745	-1.25085	-0.78935
AE003852	2154250	61.914	31.152	50.628	30.032	24.228	0.162865	-0.05708	1.757309	-0.6559	-0.50484
AE003852	2154750	58.52	28.8	32.752	27.428	26.336	-0.16288	-0.38384	-0.58006	-1.01713	-0.16147
AE003852	2155250	60.426	30.29	23.462	36.468	22.318	0.018195	-0.17838	-1.79528	0.232442	-0.81983
AE003852	2155750	59.066	26.002	31.636	41.528	23.528	-0.11305	-0.77333	-0.72805	0.931431	-0.6233
AE003852	2156250	51.956	15.706	42.536	40.784	32.084	-0.79415	-2.20057	0.695463	0.827505	0.774462
AE003852	2156750	66.05	25.104	42.924	28.874	22.596	0.55244	-0.89961	0.745107	-0.8211	-0.77836
AE003852	2157250	72.066	30.436	38.948	34.868	23.598	1.126547	-0.16192	0.224398	0.007092	-0.61584
AE003852	2157750	57.234	33.234	38.664	32.058	19.388	-0.29299	0.224746	0.186215	-0.38264	-1.30559
AE003852	2158250	65.584	27.92	42.046	25.524	25.15	0.504314	-0.51234	0.62716	-1.28754	-0.36471
AE003852	2158750	67.83	28.652	25.59	34.476	30.16	0.717905	-0.41188	-1.52462	-0.05014	0.453199
AE003852	2159250	67.148	27.472	35.314	40.72	43.032	0.651499	-0.57628	-0.25481	0.812637	2.556715
AE003852	2159750	65.72	28.372	38.908	26.688	20.978	0.513755	-0.45255	0.213843	-1.12953	-1.05091
AE003852	2160250	60.716	32.39	34.242	30.728	24.558	0.034047	0.103119	-0.39705	-0.57164	-0.46684
AE003852	2160750	61.39	29.73	39.536	26.29	25.714	0.097312	-0.26631	0.293788	-1.18659	-0.27913
AE003852	2161250	62.044	30.028	32.116	35.528	25.942	0.158664	-0.22597	-0.67703	0.090376	-0.24318
AE003852	2161750	57.474	26.646	32.774	28.89	22.368	-0.27954	-0.69542	-0.5921	-0.82891	-0.82894
AE003852	2162250	57.74	33.492	37.14	32.924	24.474	-0.25529	0.252012	-0.02255	-0.27186	-0.48589

AE003852	2162750	68.024	31.938	39.828	30.742	20.86	0.726953	0.035796	0.32769	-0.57472	-1.07819
AE003852	2163250	70.966	30.752	36.15	37.824	20.84	1.007101	-0.12944	-0.15407	0.403991	-1.08279
AE003852	2163750	74.14	32.694	38.72	38.192	16.14	1.309435	0.138641	0.180749	0.453897	-1.85266
AE003852	2164250	71.286	30.954	33.724	39.428	16.326	1.035326	-0.10334	-0.47327	0.62388	-1.82358
AE003852	2164750	72.608	31.7	26.57	36.37	16.69	1.160557	-0.00094	-1.40933	0.19984	-1.76539
AE003852	2165250	66.196	30.432	26.5	46.03	25.01	0.546206	-0.17754	-1.41954	1.535183	-0.40622
AE003852	2165750	69.646	36.552	33.378	45.744	31.642	0.874933	0.669319	-0.52169	1.494616	0.676923
AE003852	2166250	85.268	36.988	32.962	40.52	27.064	2.367637	0.728777	-0.57712	0.770936	-0.07301
AE003852	2166750	62.438	32.282	34.25	31.336	29.51	0.183274	0.075917	-0.40985	-0.50056	0.325637
AE003852	2167250	80.628	31.02	42.53	39.228	31.228	1.92155	-0.09985	0.671238	0.590198	0.605237
AE003852	2167750	73.808	25.104	33.314	34.858	20.052	1.268182	-0.92033	-0.53431	-0.01534	-1.22361
AE003852	2168250	60.92	23.242	35.306	29.048	19.234	0.034547	-1.17921	-0.27503	-0.82009	-1.3587
AE003852	2168750	59.438	29.032	33.252	29.248	27.028	-0.10836	-0.37807	-0.54455	-0.79342	-0.08554
AE003852	2169250	51.934	27.608	47.636	35.302	27.314	-0.82714	-0.57628	1.334305	0.043073	-0.0401
AE003852	2169750	58.442	21.85	43.916	32.874	22.108	-0.20598	-1.37487	0.847054	-0.29381	-0.89273
AE003852	2170250	58.538	22.586	34.886	43.49	29.75	-0.19799	-1.27385	-0.33419	1.173781	0.355575
AE003852	2170750	60.308	22.746	41.458	45.496	32.26	-0.02992	-1.25263	0.523675	1.450285	0.764683
AE003852	2171250	65.18	27.242	41.102	50.134	34.828	0.434792	-0.63075	0.476082	2.090894	1.183276
AE003852	2171750	63.154	35.614	40.014	40.94	32.76	0.239863	0.528079	0.332821	0.818012	0.843785
AE003852	2172250	70.964	32.806	37.034	37.914	29.454	0.985526	0.138147	-0.05772	0.398398	0.301854
AE003852	2172750	73.714	41.946	34.136	49.382	33.978	1.247313	1.403363	-0.43754	1.983857	1.040294
AE003852	2173250	71.798	43.32	29.162	41.322	28.244	1.062903	1.59276	-1.08868	0.86785	0.101334
AE003852	2173750	56.458	33.078	32.418	37.5	32.004	-0.40521	0.173002	-0.6642	0.338119	0.714844
AE003852	2174250	54.072	29.146	28.18	42.528	35.618	-0.63457	-0.37264	-1.21915	1.032681	1.304481
AE003852	2174750	52.496	35.294	38.988	40.742	31.39	-0.78646	0.4781	0.192335	0.784606	0.611783
AE003852	2175250	63.846	29.474	37.22	47.702	26.812	0.297721	-0.32908	-0.0398	1.746437	-0.13815
AE003852	2175750	69.492	30.576	27.462	30.046	33.594	0.836446	-0.17736	-1.31619	-0.69706	0.969525
AE003852	2176250	70.896	40.354	40.876	33.438	31.12	0.969519	1.176232	0.435891	-0.22882	0.563644
AE003852	2176750	64.318	39.758	36.642	36.656	23.708	0.339293	1.092727	-0.11854	0.215347	-0.64971
AE003852	2177250	65.52	34.704	43.054	42.642	21.982	0.45305	0.391659	0.718413	1.042437	-0.93327
AE003852	2177750	49.262	31.39	42.208	44.928	28.16	-1.10285	-0.06837	0.60678	1.357675	0.075632
AE003852	2178250	47.076	27.492	39.962	30.342	22.714	-1.31308	-0.6093	0.312173	-0.66113	-0.81623
AE003852	2178750	50.726	27.296	37.322	33.572	19.924	-0.96523	-0.63739	-0.03393	-0.2153	-1.27379
AE003852	2179250	54.076	26.42	37.238	45.04	22.458	-0.64606	-0.75968	-0.04597	1.370162	-0.86076
AE003852	2179750	55.04	27.61	31.062	35.276	19.972	-0.55507	-0.59578	-0.85421	0.018427	-1.2686
AE003852	2180250	52.456	28.518	31.03	22.76	33.554	-0.80336	-0.47093	-0.85946	-1.71402	0.951017
AE003852	2180750	40.724	28.67	37.286	35.154	37.244	-1.92645	-0.45082	-0.04289	-0.00046	1.553081

AE003852	2181250	43.024	29.834	35.234	32.884	29.604	-1.70769	-0.29051	-0.31215	-0.31549	0.302449
AE003852	2181750	54.942	31.878	45.816	31.954	28.942	-0.56919	-0.0083	1.069804	-0.44514	0.192869
AE003852	2182250	72.48	27.744	37.012	33.234	30.726	1.106737	-0.58192	-0.0819	-0.26907	0.483261
AE003852	2182750	61.482	33.266	36.136	32.754	29.712	0.053838	0.182096	-0.19745	-0.33648	0.316121
AE003852	2183250	49.672	32.782	38.226	28.064	25.59	-1.07671	0.114106	0.074632	-0.98628	-0.35924
AE003852	2183750	61.134	46.914	38.908	31.086	25.64	0.018183	2.070859	0.162701	-0.56923	-0.3524
AE003852	2184250	58.828	38.346	26.972	46.694	31.888	-0.20352	0.882999	-1.39834	1.588949	0.667954
AE003852	2184750	65	38.418	36.282	31.22	31.58	0.385503	0.892032	-0.18264	-0.5527	0.61626
AE003852	2185250	57.136	29.804	38.184	26.15	33.14	-0.3677	-0.3022	0.064881	-1.25507	0.870024
AE003852	2185750	57.754	30.252	39.34	37.638	37.282	-0.30979	-0.24108	0.214899	0.333153	1.545999
AE003852	2186250	60.896	36.02	43.898	41.106	30.28	-0.01052	0.557014	0.809542	0.811907	0.399694
AE003852	2186750	55.298	41.818	45.178	34.15	28.286	-0.54703	1.359264	0.975766	-0.15138	0.072303
AE003852	2187250	53.796	33.416	34.318	39.384	19.458	-0.69185	0.1944	-0.44465	0.571684	-1.37259
AE003852	2187750	49.758	31.722	38.882	48.514	31.74	-1.07918	-0.04121	0.150779	1.833708	0.634446
AE003852	2188250	59.69	37.25	50.272	48.204	33.886	-0.13059	0.723638	1.63833	1.789821	0.984033
AE003852	2188750	73.992	31.25	45.624	38.036	30.694	1.235882	-0.10848	1.029794	0.382197	0.460743
AE003852	2189250	82.18	42.136	49.42	31.434	30.956	2.017692	1.398608	1.524847	-0.53211	0.502256
AE003852	2189750	77.522	34.668	43.702	27.982	16.76	1.571071	0.36313	0.776467	-1.01066	-1.82042
AE003852	2190250	78.562	28.038	49.368	40.14	24.528	1.669335	-0.55626	1.51592	0.670253	-0.55152
AE003852	2190750	84.824	32.262	49.216	44.948	24.25	2.266967	0.027946	1.494989	1.33438	-0.59831
AE003852	2191250	81.808	23.528	28.676	41.04	29.828	1.977366	-1.18291	-1.19055	0.792753	0.312486
AE003852	2191750	65.608	28.342	51.872	27.354	25.312	0.427013	-0.51697	1.839984	-1.10154	-0.42731
AE003852	2192250	52.71	27.688	42.494	32.114	28.974	-0.80758	-0.60851	0.61326	-0.44406	0.17018
AE003852	2192750	44.198	36.786	32.42	39.724	30.348	-1.62275	0.650885	-0.70443	0.607693	0.393528
AE003852	2193250	62.202	42.818	35.938	26.386	26.574	0.097742	1.485552	-0.24571	-1.23846	-0.22493
AE003852	2193750	81.338	39.802	35.266	29.486	22.814	1.926481	1.066806	-0.3346	-0.81062	-0.8411
AE003852	2194250	68.602	32.64	45.51	24.508	16.71	0.707382	0.073718	1.003175	-1.50027	-1.84056
AE003852	2194750	63.642	34.722	47.55	27.48	21.492	0.231881	0.361194	1.268727	-1.09013	-1.05993
AE003852	2195250	48.35	29.502	34.866	31.158	22.456	-1.23164	-0.36287	-0.39007	-0.58232	-0.90363
AE003852	2195750	45.682	40.108	32.196	22.882	31.202	-1.48796	1.105429	-0.7401	-1.72821	0.525198
AE003852	2196250	54.466	44.454	33.958	30.074	26.934	-0.64916	1.706535	-0.51088	-0.73429	-0.17404
AE003852	2196750	64.126	45.172	29.642	28.292	31.018	0.273413	1.805058	-1.07602	-0.98181	0.492451
AE003852	2197250	59.926	28.344	28.738	34.07	25.842	-0.12941	-0.52705	-1.19524	-0.18349	-0.35526
AE003852	2197750	50.05	29.96	36.988	27.22	17.7	-1.07502	-0.30413	-0.11807	-1.13211	-1.68798
AE003852	2198250	63.266	33.406	26.698	26.838	23.962	0.187609	0.172298	-1.46398	-1.18596	-0.66534
AE003852	2198750	61.73	56.182	32.114	27.226	24.084	0.039537	3.326497	-0.75721	-1.13329	-0.64672
AE003852	2199250	59.952	41.862	41.81	32.094	34.046	-0.13168	1.341818	0.508949	-0.46086	0.980945

AE003852	2199750	55.94	33.252	46.056	36.12	24.746	-0.51652	0.14814	1.062814	0.095089	-0.54113
AE003852	2200250	45.388	26.712	42.574	35.57	19.032	-1.52677	-0.75878	0.606669	0.018	-1.47682
AE003852	2200750	47.58	25.88	29.232	32.13	20.118	-1.31834	-0.87498	-1.13813	-0.45888	-1.30057
AE003852	2201250	52.354	30.858	29.702	38.36	24.356	-0.86301	-0.18632	-1.07777	0.401959	-0.60889
AE003852	2201750	63.568	37.306	33.522	43.334	27.13	0.208173	0.70597	-0.57958	1.08905	-0.15662
AE003852	2202250	82.86	26.704	32.468	34.052	29.22	2.05183	-0.76366	-0.7184	-0.19601	0.183814
AE003852	2202750	67.716	34.136	34.918	25.53	24.286	0.60246	0.26495	-0.39926	-1.37593	-0.62433
AE003852	2203250	53.222	26.244	33.828	24.86	26.406	-0.78475	-0.82926	-0.54278	-1.46961	-0.27899
AE003852	2203750	55.508	30.096	24.234	33.256	27.208	-0.56734	-0.29659	-1.79774	-0.30913	-0.14918
AE003852	2204250	53.194	34.714	34.924	39.644	35	-0.78981	0.342194	-0.40167	0.573571	1.123648
AE003852	2204750	50.024	31.294	42.764	19.08	24.092	-1.09413	-0.13252	0.621912	-2.27222	-0.66137
AE003852	2205250	60.61	26.122	35.316	20.95	18.386	-0.08301	-0.84993	-0.35257	-2.01453	-1.59575
AE003852	2205750	73.484	14.358	34.822	30.604	22.686	1.146911	-2.48053	-0.4182	-0.68001	-0.89394
AE003852	2206250	65.224	17.836	36.056	29.87	27.778	0.35584	-1.99967	-0.25799	-0.78256	-0.06262
AE003852	2206750	70.114	31.96	49.62	43	25.204	0.82227	-0.04402	1.513695	1.032821	-0.48485
AE003852	2207250	68.462	35.436	44.228	38.656	27.74	0.663106	0.436562	0.807922	0.430878	-0.07149
AE003852	2207750	56.864	26.218	39.172	42.136	31.964	-0.44717	-0.84134	0.146062	0.911293	0.617891
AE003852	2208250	74.886	24.266	37.38	35.28	35.716	1.275041	-1.11269	-0.08921	-0.03816	1.230093
AE003852	2208750	69.09	46.5	40.69	33.16	34.922	0.719596	1.966424	0.342326	-0.33243	1.098927
AE003852	2209250	52.148	30.98	29.74	31.662	30.748	-0.90171	-0.18449	-1.08985	-0.54067	0.41506
AE003852	2209750	61.722	30.104	32.454	33.406	24.78	0.012636	-0.30678	-0.73621	-0.30041	-0.56216
AE003852	2210250	49.438	28.58	36.576	26.376	16.974	-1.16324	-0.51884	-0.19855	-1.27393	-1.83994
AE003852	2210750	61.344	20.162	35.928	34.808	28.846	-0.02589	-1.68592	-0.28431	-0.10846	0.100054
AE003852	2211250	60.432	33.14	31.71	38.798	26.418	-0.11429	0.110966	-0.83664	0.442503	-0.29831
AE003852	2211750	55.268	28.348	43.946	37.792	24.524	-0.6093	-0.55381	0.761477	0.302333	-0.60934
AE003852	2212250	62.884	34.132	41.398	34.332	27.312	0.117816	0.246504	0.4274	-0.17732	-0.15478
AE003852	2212750	46.922	27.756	31.198	36.02	26.138	-1.40978	-0.6377	-0.90675	0.055193	-0.34808
AE003852	2213250	55.34	30.274	25.294	30.162	17.676	-0.60597	-0.28983	-1.67944	-0.75619	-1.73313
AE003852	2213750	62.008	45.62	31.882	45.944	21.014	0.030482	1.835102	-0.81949	1.426055	-1.18862
AE003852	2214250	61.06	28.788	40.822	36.482	23.44	-0.06136	-0.49756	0.347858	0.116098	-0.79325
AE003852	2214750	59.338	23.878	40.962	39.768	23.408	-0.22722	-1.17868	0.36509	0.569675	-0.79981
AE003852	2215250	66.568	39.144	36.67	29.554	30.49	0.462979	0.935162	-0.19692	-0.84431	0.356916
AE003852	2215750	68.944	36.378	45.9	38.652	23.832	0.689002	0.551049	1.008331	0.413285	-0.73314
AE003852	2216250	51.556	27.71	47.884	38.638	21.086	-0.97496	-0.65066	1.266565	0.410345	-1.1835
AE003852	2216750	53.17	22.016	49.994	27.51	21.644	-0.8218	-1.44039	1.541266	-1.13008	-1.09358
AE003852	2217250	55.036	24.64	37.628	24.742	20.598	-0.64455	-1.07783	-0.07597	-1.51401	-1.26595
AE003852	2217750	81.478	34.338	35.254	28.616	23.24	1.882845	0.264682	-0.38731	-0.97909	-0.83526

AE003852	2218250	68.7	24.948	28.026	37.586	25.698	0.659729	-1.03705	-1.33304	0.260804	-0.43466
AE003852	2218750	61.83	24.228	42.938	37.208	26.744	0.00158	-1.13773	0.61482	0.20751	-0.26494
AE003852	2219250	68.828	27.426	44.27	39.866	33.222	0.669593	-0.69566	0.78784	0.57421	0.79302
AE003852	2219750	84.822	29.486	37.86	41.768	33.286	2.197872	-0.41123	-0.05098	0.836327	0.802155
AE003852	2220250	61.184	38.454	46.03	33.124	38.724	-0.06376	0.83016	1.015732	-0.36047	1.690054
AE003852	2220750	53.202	39.698	49.056	40.458	24.318	-0.82825	1.001549	1.41015	0.653099	-0.66696
AE003852	2221250	57.974	30.192	38.524	39.548	22.53	-0.3731	-0.31625	0.032604	0.526209	-0.96067
AE003852	2221750	63.306	33.094	52.964	28.71	31.692	0.135598	0.084819	1.918775	-0.9741	0.536184
AE003852	2222250	73.906	37.196	57.786	39.146	33.48	1.148062	0.652124	2.547921	0.468593	0.82723
AE003852	2222750	59.904	45.054	46.358	32.972	27.556	-0.1921	1.739744	1.053273	-0.38651	-0.1428
AE003852	2223250	62.308	45.842	35.664	36.308	24.856	0.036598	1.847964	-0.34545	0.073984	-0.58564
AE003852	2223750	51.23	37.94	38.672	33.846	43.97	-1.02395	0.752364	0.04662	-0.26761	2.538579
AE003852	2224250	61.326	34.612	39.698	28.536	30.542	-0.05968	0.290398	0.179648	-1.00318	0.341487
AE003852	2224750	68.158	33.226	33.524	22.596	24.934	0.592455	0.097455	-0.62833	-1.82591	-0.57687
AE003852	2225250	68.578	37.186	32.346	21.398	23.746	0.631431	0.645088	-0.78335	-1.99265	-0.77246
AE003852	2225750	71.228	29.364	36.256	32.17	28.488	0.883655	-0.43943	-0.2734	-0.50347	0.001625
AE003852	2226250	66.564	34.098	39.324	30.922	34.578	0.436461	0.215427	0.126506	-0.67712	0.99614
AE003852	2226750	67.056	39.57	43.006	27.876	31.594	0.482322	0.972517	0.606659	-1.0995	0.506863
AE003852	2227250	67.108	37.602	28.206	32.136	31.266	0.486106	0.69895	-1.32869	-0.51118	0.451898
AE003852	2227750	64.746	38.298	32.648	37.332	34.594	0.259046	0.794425	-0.74921	0.206621	0.994767
AE003852	2228250	61.556	24.008	40.156	31.36	29.44	-0.04719	-1.1861	0.230982	-0.62054	0.150649
AE003852	2228750	57.042	20.838	33.606	24.06	33.152	-0.48004	-1.62618	-0.62614	-1.63141	0.756311
AE003852	2229250	69.96	30.21	39.508	33.592	28.99	0.754084	-0.32882	0.144161	-0.31377	0.074406
AE003852	2229750	65.86	28.776	40.604	33.026	25.878	0.360823	-0.52842	0.286337	-0.39307	-0.4358
AE003852	2230250	72.188	25.762	27.982	31.106	21.238	0.964766	-0.94689	-1.36436	-0.65968	-1.19587
AE003852	2230750	66.466	24.552	29.472	31.546	16.936	0.416397	-1.11545	-1.17069	-0.59982	-1.90067
AE003852	2231250	59.326	30.196	31.16	32.69	23.99	-0.26757	-0.33453	-0.95114	-0.44256	-0.74852
AE003852	2231750	52.464	28.878	28.256	41.9	18.806	-0.92495	-0.51805	-1.33175	0.83053	-1.59754
AE003852	2232250	63.884	33.862	31.61	43.754	25.834	0.165923	0.171434	-0.89446	1.086007	-0.44965
AE003852	2232750	56.774	30.488	24.74	29.088	35.726	-0.51518	-0.29691	-1.7934	-0.94386	1.166578
AE003852	2233250	57.086	32.102	35.962	24.798	30.542	-0.48653	-0.07426	-0.32781	-1.53833	0.317554
AE003852	2233750	63.248	37.288	41.794	35.934	28.146	0.10154	0.64321	0.433341	0.001196	-0.07557
AE003852	2234250	62.122	25.78	43.78	48.694	28.282	-0.00732	-0.95193	0.691836	1.765387	-0.05466
AE003852	2234750	66.618	21.516	37.094	43.256	26.584	0.421429	-1.54356	-0.18306	1.012103	-0.33365
AE003852	2235250	53.834	42.856	42.726	40.262	25.058	-0.80226	1.411716	0.551952	0.596916	-0.58452
AE003852	2235750	53.066	25.198	55.56	41.652	30.514	-0.87689	-1.03537	2.228227	0.788204	0.306327
AE003852	2236250	67.234	23.52	42.766	55.592	24.782	0.476771	-1.26877	0.555049	2.715634	-0.63231

AE003852	2236750	81.33	21.474	42.35	37.79	18.348	1.823548	-1.55314	0.499614	0.251937	-1.68573
AE003852	2237250	63.942	28.924	40.952	44.242	19.378	0.15959	-0.52204	0.315837	1.143492	-1.51863
AE003852	2237750	61.7	27.772	30.132	41.384	34.174	-0.056	-0.68257	-1.09935	0.747119	0.899497
AE003852	2238250	75.096	23.352	29.148	35.166	35.672	1.223843	-1.29581	-1.22902	-0.11407	1.143122
AE003852	2238750	65.022	35.884	51.33	36.036	33.888	0.259303	0.439298	1.668994	0.005283	0.85007
AE003852	2239250	56.904	27.814	41.542	37.258	34.656	-0.51819	-0.67957	0.388685	0.173329	0.974325
AE003852	2239750	62.506	26.54	37.77	50.958	33.128	0.016329	-0.857	-0.10536	2.067559	0.723135
AE003852	2240250	65.07	24.61	30.688	33.51	22.626	0.260329	-1.1253	-1.03201	-0.34717	-0.99549
AE003852	2240750	77.226	34.834	37.626	32.55	19.832	1.421589	0.290076	-0.12631	-0.48097	-1.4537
AE003852	2241250	83.968	34.01	37.78	37.156	24.956	2.065122	0.174986	-0.10725	0.155209	-0.61715
AE003852	2241750	60.89	49.654	44.64	44.19	27.538	-0.14296	2.341195	0.788251	1.127277	-0.19627
AE003852	2242250	51.81	43.14	42.388	41.626	25.398	-1.01244	1.437875	0.492861	0.771576	-0.54753
AE003852	2242750	63.438	38.166	52.574	36.516	21.56	0.098325	0.747889	1.823055	0.063666	-1.17646
AE003852	2243250	57.48	31.706	35.97	37.49	23.306	-0.47261	-0.14795	-0.34807	0.197405	-0.89228
AE003852	2243750	68.182	41.02	36.59	33.128	26.58	0.549606	1.141368	-0.26811	-0.40703	-0.35824
AE003852	2244250	57.79	45.388	46.21	33.466	33.634	-0.44534	1.745521	0.988115	-0.36127	0.79391
AE003852	2244750	52.858	48.798	37.604	47.26	33.594	-0.91817	2.216964	-0.13771	1.545961	0.78604
AE003852	2245250	51.464	41.484	44.012	45.624	28.834	-1.05266	1.20282	0.698717	1.318637	0.006349
AE003852	2245750	56.772	43.18	54.606	36.326	24.378	-0.54626	1.436824	2.082234	0.031367	-0.72363
AE003852	2246250	77.088	45.194	43.474	44.94	37.422	1.395325	1.71488	0.626272	1.222009	1.40801
AE003852	2246750	69.198	32.352	38.83	32.612	26.822	0.639636	-0.06505	0.018259	-0.48443	-0.32664
AE003852	2247250	75.082	38.652	47.76	37.578	25.706	1.20112	0.806739	1.1843	0.201559	-0.51046
AE003852	2247750	83.316	44.192	55.456	41.558	19.804	1.987329	1.573249	2.189063	0.751143	-1.4769
AE003852	2248250	69.336	38.302	42.916	39.8	30.964	0.649268	0.75637	0.549082	0.506942	0.346672
AE003852	2248750	72.388	31.262	47.624	58.448	35.956	0.939935	-0.21982	1.163329	3.085668	1.16164
AE003852	2249250	71.63	36.834	53.764	44.278	25.404	0.866262	0.551126	1.964731	1.124415	-0.56517
AE003852	2249750	78.082	28.618	42.724	38.468	38.786	1.482062	-0.58797	0.520792	0.319668	1.621746
AE003852	2250250	68.178	29.746	47.666	41.938	28.206	0.53378	-0.43265	1.165622	0.798699	-0.10964
AE003852	2250750	74.48	34.422	48.408	43.478	27.858	1.135236	0.214169	1.261532	1.010737	-0.16787
AE003852	2251250	75.744	28.966	49.45	41.7	29.68	1.254921	-0.54259	1.396651	0.76377	0.128733
AE003852	2251750	65.504	28.166	45.452	37.408	33.544	0.274508	-0.65435	0.873067	0.16902	0.759249
AE003852	2252250	64.896	34.746	40.266	31.814	30.104	0.215178	0.256227	0.194217	-0.60585	0.195407
AE003852	2252750	69.48	34.908	44.958	33.132	33.068	0.652347	0.277727	0.806372	-0.42452	0.678754
AE003852	2253250	73.662	30.294	50.978	27.784	28.882	1.051073	-0.36239	1.592091	-1.16535	-0.00708
AE003852	2253750	70.5	34.252	39.136	41.822	33.582	0.747511	0.184969	0.043335	0.775635	0.760145
AE003852	2254250	69.586	24.118	39.076	37.192	33.964	0.658919	-1.21983	0.034428	0.134128	0.82128
AE003852	2254750	69.704	16.164	37.354	50.908	27.496	0.669015	-2.32263	-0.19169	2.03057	-0.2377

AE003852	2255250	71.43	35.732	37.094	33.164	25.676	0.83288	0.387167	-0.22674	-0.4251	-0.53664
AE003852	2255750	63.094	46.294	32.898	28.288	31.7	0.034542	1.849371	-0.7762	-1.10064	0.447079
AE003852	2256250	52.328	34.158	34.514	36.498	38.406	-0.99617	0.167239	-0.56606	0.034111	1.542323
AE003852	2256750	49.966	30.408	37.732	35.118	29.8	-1.22323	-0.35319	-0.14655	-0.1578	0.13373
AE003852	2257250	58.796	24.324	26.518	29.542	27.95	-0.38003	-1.19694	-1.61323	-0.93017	-0.17011
AE003852	2257750	64.248	28.42	24.152	34.578	24.166	0.140144	-0.63047	-1.92352	-0.2345	-0.79021
AE003852	2258250	67.09	23.718	31.814	38.7	32.656	0.410729	-1.28277	-0.9232	0.334722	0.596758
AE003852	2258750	57.654	32.97	40.782	42.254	27.132	-0.4928	-0.00204	0.247804	0.825373	-0.30786
AE003852	2259250	55.864	35.668	52.202	41.632	32.222	-0.66516	0.370768	1.739276	0.738325	0.52313
AE003852	2259750	61.806	33.618	50.768	30.918	34.212	-0.09813	0.085841	1.550794	-0.74483	0.847208
AE003852	2260250	49.29	26.856	28.224	22.576	26.014	-1.29619	-0.85183	-1.39666	-1.89985	-0.49467
AE003852	2260750	56.988	37.81	30.352	28.416	23.892	-0.56124	0.664672	-1.11961	-1.09296	-0.84299
AE003852	2261250	72.736	36.734	38.378	46.976	25.22	0.943514	0.514673	-0.07171	1.473594	-0.62716
AE003852	2261750	78.466	30.506	48.652	51.4	30.304	1.490271	-0.34903	1.269981	2.084599	0.202848
AE003852	2262250	72.926	35.392	33.386	43.88	44.622	0.959307	0.326884	-0.72627	1.043295	2.542816
AE003852	2262750	81.27	38.794	26.126	41.672	33.432	1.756035	0.797218	-1.67619	0.736842	0.711684
AE003852	2263250	57.248	49.386	34.676	35.644	33.536	-0.54232	2.263578	-0.55981	-0.09806	0.72736
AE003852	2263750	56.286	30.178	38.708	36.092	32.664	-0.6355	-0.39823	-0.03391	-0.03709	0.58344
AE003852	2264250	80.018	32.608	40.4	27.98	38.244	1.632745	-0.06255	0.186159	-1.16029	1.494559
AE003852	2264750	76.104	39.066	39.164	43.29	31.496	1.257271	0.831132	0.023554	0.956663	0.389788
AE003852	2265250	54.908	36.996	48.42	50.848	26.312	-0.77084	0.543434	1.232202	2.00122	-0.45924
AE003852	2265750	55.104	32.596	48.876	49.508	37.932	-0.75328	-0.06704	1.290733	1.814845	1.439552
AE003852	2266250	63.834	32.922	44.338	40.628	37.412	0.080358	-0.02282	0.696574	0.5854	1.353191
AE003852	2266750	64.488	27.64	42.35	27.24	21.146	0.14171	-0.75547	0.435687	-1.26767	-1.30798
AE003852	2267250	65.918	34.31	38.48	42.552	29.05	0.27727	0.167578	-0.07117	0.849558	-0.01683
AE003852	2267750	68.246	28.068	46.176	39	27.954	0.498702	-0.69806	0.933595	0.357178	-0.19738
AE003852	2268250	74.55	29.452	41.82	35.558	30.994	1.10035	-0.50728	0.363222	-0.11998	0.298393
AE003852	2268750	65.318	28.032	37.096	38.07	28.786	0.216329	-0.70493	-0.25525	0.226519	-0.06399
AE003852	2269250	49.216	26.888	42.738	36.392	29.298	-1.32465	-0.86435	0.481069	-0.00661	0.018402
AE003852	2269750	42.672	36.306	41.758	43.062	25.616	-1.95163	0.439374	0.351923	0.915098	-0.58501
AE003852	2270250	58.566	39.362	42.236	39.968	28.136	-0.43291	0.861778	0.413329	0.486078	-0.17427
AE003852	2270750	54.352	44.684	36.184	40.99	24.964	-0.83707	1.598089	-0.3787	0.626457	-0.69429
AE003852	2271250	61.078	42.696	42.128	32.534	27.726	-0.19507	1.321751	0.397083	-0.54433	-0.24397
AE003852	2271750	56.994	30.848	38.274	36.63	28.656	-0.5868	-0.32048	-0.10768	0.021298	-0.09323
AE003852	2272250	55.718	43.104	37.136	30.678	32.282	-0.71001	1.376387	-0.25748	-0.80309	0.498372
AE003852	2272750	63.868	35.068	38.736	36.392	26.226	0.068165	0.262225	-0.04943	-0.01363	-0.49324
AE003852	2273250	50.574	21.792	26.598	41.532	27.84	-1.20429	-1.57783	-1.63687	0.696424	-0.23065

AE003852	2273750	51.148	26.328	29.364	42.712	27.568	-1.15059	-0.9504	-1.27644	0.858661	-0.27646
AE003852	2274250	59.126	31.13	40.142	47.968	29.658	-0.38886	-0.28613	0.13113	1.584763	0.063974
AE003852	2274750	72.028	33.45	37.142	37.65	35.4	0.843734	0.034318	-0.26202	0.156389	1.001583
AE003852	2275250	66.92	36.474	33.586	41.832	38.914	0.35408	0.452289	-0.72784	0.733916	1.574867
AE003852	2275750	65.432	27.154	39.162	43.404	31.638	0.210599	-0.83974	-0.00015	0.950381	0.383757
AE003852	2276250	68.192	26.088	41.196	32.614	30.05	0.473343	-0.98836	0.264621	-0.54329	0.122756
AE003852	2276750	73.084	30.062	43.704	42.704	38.566	0.939964	-0.43879	0.591339	0.85154	1.513973
AE003852	2277250	76.186	31.62	43.874	38.848	35.6	1.235413	-0.2239	0.612491	0.317106	1.027639
AE003852	2277750	60.634	22.968	37.368	37.86	33.73	-0.25297	-1.42339	-0.23888	0.179425	0.720525
AE003852	2278250	66.694	26.558	37.108	32.958	34.746	0.325341	-0.92702	-0.27392	-0.49971	0.885333
AE003852	2278750	56.86	38.73	34.222	36.034	32.768	-0.61625	0.758219	-0.65217	-0.07518	0.560558
AE003852	2279250	59.63	24.284	38.872	32.65	30.804	-0.35255	-1.24392	-0.04551	-0.54432	0.238073
AE003852	2279750	62.322	23.908	30.922	33.124	35.444	-0.09631	-1.29694	-1.0856	-0.47975	0.995482
AE003852	2280250	55.672	26.794	37.554	23.22	34.664	-0.73342	-0.89809	-0.21989	-1.85086	0.866606
AE003852	2280750	46.492	21.23	45.316	25.99	23.93	-1.61247	-1.66981	0.793495	-1.46866	-0.88996
AE003852	2281250	62.972	29.264	30.464	39.092	26.972	-0.03771	-0.55781	-1.14865	0.342841	-0.39386
AE003852	2281750	59.378	25.24	38.524	36.03	21.098	-0.38259	-1.11619	-0.09632	-0.08175	-1.35571
AE003852	2282250	67.76	30.066	28.054	30.282	26.36	0.417776	-0.44859	-1.46576	-0.87792	-0.49659
AE003852	2282750	62.012	42.422	36.282	43.992	35.566	-0.13308	1.262135	-0.39147	1.017691	1.007454
AE003852	2283250	58.77	36.318	46.226	34.168	39.914	-0.44429	0.415612	0.907101	-0.34234	1.717115
AE003852	2283750	45.996	33.456	36.626	30.92	36.98	-1.66703	0.018199	-0.34864	-0.79267	1.236014
AE003852	2284250	44.194	27.664	43.508	29.68	34.008	-1.84053	-0.7851	0.549741	-0.96521	0.748699
AE003852	2284750	71.684	35.198	36.002	39.596	29.686	0.787078	0.257634	-0.43232	0.405547	0.040631
AE003852	2285250	62.906	46.936	42.158	38.192	21.094	-0.05353	1.882748	0.371171	0.210318	-1.36567
AE003852	2285750	53.016	34.27	41	44.896	30.508	-1.00047	0.127196	0.218761	1.136734	0.172386
AE003852	2286250	55.094	27.97	41.206	38.56	31.066	-0.80295	-0.74648	0.244619	0.259222	0.262301
AE003852	2286750	63.264	39.048	32.128	35.05	29.812	-0.02286	0.787205	-0.9429	-0.22735	0.055916
AE003852	2287250	56.97	36.914	37.552	45.25	36.376	-0.62593	0.490642	-0.23507	1.182699	1.12794
AE003852	2287750	57.632	42.478	54.19	39.922	44.014	-0.56381	1.260476	1.938367	0.444631	2.375586
AE003852	2288250	67.236	38.26	52.914	40.538	24.978	0.353411	0.675219	1.770534	0.528845	-0.73853
AE003852	2288750	75.932	40.532	45.198	32.576	29.89	1.183799	0.989015	0.761026	-0.57361	0.063352
AE003852	2289250	51.976	29.834	39.994	37.666	25.836	-1.10824	-0.49391	0.079824	0.129533	-0.60089
AE003852	2289750	62.51	30.974	35.294	40.372	30.56	-0.10209	-0.33693	-0.53551	0.502874	0.170252
AE003852	2290250	82.592	30.048	36.108	24.472	31.066	1.817115	-0.46615	-0.43019	-1.6977	0.251664
AE003852	2290750	73.042	23.604	47.566	24.646	22.086	0.902684	-1.35977	1.06625	-1.67464	-1.21809
AE003852	2291250	71.782	31.046	32.14	29.904	25.646	0.781005	-0.32978	-0.95092	-0.94826	-0.63728
AE003852	2291750	57.802	41.086	30.356	31.492	30.35	-0.55706	1.06011	-1.18514	-0.72958	0.130594

AE003852	2292250	63.06	35.062	39.548	33.636	33.978	-0.05543	0.224669	0.015141	-0.43398	0.72252
AE003852	2292750	68.652	32.088	44.284	45.412	31.53	0.478127	-0.18826	0.633047	1.194083	0.32089
AE003852	2293250	74.728	32.992	55.756	30.92	34.888	1.057972	-0.06397	2.131315	-0.81171	0.868665
AE003852	2293750	67.692	44.53	58.078	38.362	29.91	0.383949	1.533438	2.433723	0.216795	0.053327
AE003852	2294250	47.646	30.374	40.698	32.254	29.26	-1.53419	-0.42852	0.161178	-0.62918	-0.05429
AE003852	2294750	60.15	34.55	26.338	26.428	33.308	-0.33965	0.149034	-1.71667	-1.43614	0.606313
AE003852	2295250	70.888	31.286	31.916	26.158	40.524	0.68601	-0.30407	-0.98872	-1.47449	1.784952
AE003852	2295750	67.532	30.296	39.392	37.322	31.744	0.363897	-0.44215	-0.01271	0.068914	0.347906
AE003852	2296250	64.248	30.404	36.336	38.42	28.13	0.048668	-0.42813	-0.41318	0.219807	-0.24439
AE003852	2296750	67.406	26.49	43.258	31.818	33.246	0.349471	-0.97128	0.49043	-0.6945	0.590856
AE003852	2297250	58.524	29.466	37.228	28.022	25.768	-0.50108	-0.55996	-0.29873	-1.22064	-0.63329
AE003852	2297750	44.088	23.058	36.69	43.006	23.112	-1.88275	-1.44859	-0.37011	0.851218	-1.06893
AE003852	2298250	57.172	31.23	26.472	37.116	27.874	-0.63274	-0.31747	-1.70661	0.035404	-0.29157
AE003852	2298750	71.916	36.158	29.552	27.258	34.144	0.775999	0.364255	-1.30514	-1.32933	0.73238
AE003852	2299250	58.622	38.484	39.254	29.666	38.794	-0.49646	0.685532	-0.0382	-0.99722	1.491424
AE003852	2299750	50.962	35.904	43.562	34.464	41.316	-1.23016	0.327185	0.523769	-0.33448	1.902495
AE003852	2300250	69.214	28.048	37.256	38.944	32.804	0.51405	-0.76204	-0.30146	0.284277	0.509272
AE003852	2300750	75.512	33.422	39.252	37.874	26.842	1.115124	-0.01853	-0.04166	0.135253	-0.46697
AE003852	2301250	70.796	25.292	39.444	34.398	30.29	0.662957	-1.14571	-0.01763	-0.34661	0.095521
AE003852	2301750	58.848	30.822	40.602	26.246	27.798	-0.48079	-0.38059	0.13265	-1.47535	-0.3133
AE003852	2302250	68.616	33.378	45.544	38.056	22.44	0.452113	-0.02745	0.777479	0.157423	-1.19078
AE003852	2302750	66.492	35.7	48.306	41.504	26.912	0.247812	0.293276	1.137393	0.63341	-0.46084
AE003852	2303250	47.302	39.01	42.142	48.27	24.774	-1.58847	0.750865	0.330724	1.568403	-0.81178
AE003852	2303750	55.374	27.832	36.59	34.896	29.94	-0.81775	-0.79856	-0.39596	-0.28273	0.03164
AE003852	2304250	54.126	30.772	40.414	32.538	32.11	-0.93828	-0.39222	0.102752	-0.60994	0.385152
AE003852	2304750	62.778	39.028	35.414	34.62	29.324	-0.1121	0.750534	-0.55179	-0.32292	-0.07175
AE003852	2305250	60.814	36.602	33.62	24.822	25.162	-0.3011	0.413521	-0.78732	-1.67936	-0.75365
AE003852	2305750	62.746	29.15	34.818	22.818	28.996	-0.11754	-0.61974	-0.63181	-1.95759	-0.12804
AE003852	2306250	58.678	24.852	35.116	36.404	24.698	-0.50774	-1.21608	-0.59393	-0.07913	-0.83219
AE003852	2306750	50.602	29.216	34.22	42.168	23.416	-1.28121	-0.61248	-0.7121	0.717248	-1.04315
AE003852	2307250	64.866	26.05	34.984	38.446	27.896	0.08163	-1.05201	-0.61332	0.201351	-0.3119
AE003852	2307750	92.51	30.978	37.906	29.22	31.8	2.723968	-0.37028	-0.23249	-1.07596	0.325153
AE003852	2308250	77.45	41.092	44.658	40.038	37.97	1.28263	1.029867	0.648898	0.419581	1.332749
AE003852	2308750	52.846	39.158	46.342	43.202	33.718	-1.07138	0.761009	0.867923	0.85628	0.636128
AE003852	2309250	50.686	39.512	34.9	53.734	24.856	-1.27912	0.809107	-0.62856	2.312254	-0.81433
AE003852	2309750	63.46	38.456	30.78	47.362	25.372	-0.05876	0.661879	-1.16808	1.429761	-0.73128
AE003852	2310250	62.024	33.954	30.718	41.84	21.65	-0.19727	0.037279	-1.17725	0.664856	-1.34124

AE003852	2310750	59.766	34.968	38.118	35.882	27.986	-0.41439	0.176805	-0.21118	-0.16036	-0.30649
AE003852	2311250	66.09	45.552	51.762	45.844	29.784	0.189174	1.642057	1.570962	1.216757	-0.01381
AE003852	2311750	70.238	36.236	49.47	41.988	26.296	0.584649	0.350577	1.270344	0.682323	-0.5855
AE003852	2312250	65.02	32.27	33.198	46.67	23.196	0.084476	-0.19977	-0.85739	1.32902	-1.09375
AE003852	2312750	60.924	47.684	37.038	44.92	27.632	-0.3084	1.934576	-0.35659	1.085926	-0.3697
AE003852	2313250	52.472	46.414	37.87	45.39	27.614	-1.11783	1.757702	-0.24891	1.149942	-0.37397
AE003852	2313750	54.256	33.126	37.46	33.26	33.456	-0.94842	-0.08402	-0.30357	-0.5291	0.579989
AE003852	2314250	55.722	23.352	41.998	35.332	38.01	-0.80942	-1.43894	0.288463	-0.24347	1.323335
AE003852	2314750	53.798	32.308	43.044	33.338	32.328	-0.9946	-0.19922	0.424105	-0.52032	0.392878
AE003852	2315250	60.33	34.83	33.612	39.81	27.03	-0.37114	0.149213	-0.80968	0.374006	-0.47479
AE003852	2315750	67.614	27.156	48.504	37.768	32.57	0.324218	-0.9148	1.135569	0.090517	0.429791
AE003852	2316250	61.092	32.84	49.998	32.636	35.814	-0.30065	-0.12834	1.329762	-0.62044	0.958924
AE003852	2316750	76.614	43.1	38.832	37.098	29.276	1.18249	1.292025	-0.13064	-0.00417	-0.11151
AE003852	2317250	77.928	43.602	31.764	25.408	35.552	1.306956	1.360625	-1.05546	-1.62235	0.913422
AE003852	2317750	71.11	27.822	38.494	32.522	29.36	0.65378	-0.82631	-0.17695	-0.63921	-0.10043
AE003852	2318250	63.778	19.798	39.682	32.886	28.67	-0.04855	-1.93881	-0.02275	-0.58986	-0.21459
AE003852	2318750	58.7	26.236	30.192	31.244	21.716	-0.53533	-1.0479	-1.26411	-0.81801	-1.35305
AE003852	2319250	64.104	27.578	34.528	30.114	24.17	-0.01975	-0.86293	-0.69848	-0.97534	-0.95309
AE003852	2319750	57.494	31.466	38.586	40.392	24.266	-0.65304	-0.32527	-0.16919	0.445497	-0.93873
AE003852	2320250	50.574	32.018	30.06	42.722	18.694	-1.31597	-0.24975	-1.28456	0.766823	-1.8512
AE003852	2320750	63.694	36.24	25.98	54.872	22.17	-0.06252	0.334181	-1.81886	2.446628	-1.28413
AE003852	2321250	61.374	27.598	28.402	41.428	25.39	-0.28557	-0.86393	-1.50338	0.585809	-0.75892
AE003852	2321750	70.2	23.832	32.608	36.9	29.07	0.557255	-1.38657	-0.95474	-0.04159	-0.15849
AE003852	2322250	72.098	27.154	36.356	33.022	26.406	0.737568	-0.92732	-0.46597	-0.57907	-0.59544
AE003852	2322750	70.048	29.536	36.808	30.574	35.44	0.540343	-0.59829	-0.40796	-0.91872	0.880482
AE003852	2323250	73.862	27.724	38.338	25.88	36.9	0.903879	-0.85024	-0.20906	-1.56908	1.117894
AE003852	2323750	79.418	23.438	44.548	28.268	29.692	1.433997	-1.44492	0.601492	-1.23973	-0.0621
AE003852	2324250	84.168	26.742	52.356	40.27	30.856	1.88704	-0.98816	1.620893	0.419599	0.126912
AE003852	2324750	78.466	30.278	37.616	37.702	35.254	1.340584	-0.49926	-0.30662	0.063344	0.844749
AE003852	2325250	80.502	30.958	30.676	31.648	32.756	1.534093	-0.406	-1.21471	-0.77516	0.434943
AE003852	2325750	58.738	29.118	28.532	24.828	33.588	-0.54833	-0.66184	-1.49598	-1.71963	0.569663
AE003852	2326250	85.248	36.744	32.784	41.89	31.772	1.985565	0.393642	-0.94133	0.639697	0.271379
AE003852	2326750	80.208	29.362	34.68	37.886	24.282	1.502415	-0.62992	-0.6946	0.084789	-0.95472
AE003852	2327250	61.21	29.044	33.48	32.142	24.514	-0.3155	-0.67492	-0.8525	-0.71083	-0.91812
AE003852	2327750	81.548	30.176	35.57	33.976	27.326	1.62818	-0.51904	-0.58041	-0.45812	-0.45963
AE003852	2328250	66.532	30.66	58.324	43.68	28.438	0.191049	-0.45294	2.392358	0.883313	-0.27912
AE003852	2328750	58.584	30.926	49.69	43.134	26.872	-0.57019	-0.41703	1.262871	0.806778	-0.53652

AE003852	2329250	45.248	27.08	47.77	26.06	24.18	-1.84666	-0.95075	1.010871	-1.55621	-0.97805
AE003852	2329750	57.21	29.074	48.134	27.316	28.202	-0.70395	-0.67547	1.057379	-1.38346	-0.3217
AE003852	2330250	73.45	38.334	41.336	28.242	30.712	0.847848	0.60637	0.167849	-1.25636	0.08741
AE003852	2330750	59.584	39.308	38.85	27.36	26.754	-0.47931	0.740355	-0.15812	-1.37938	-0.56114
AE003852	2331250	41.29	35.158	31.014	38.968	30.61	-2.22991	0.164518	-1.18332	0.225449	0.068071
AE003852	2331750	49.264	33.112	37.882	34.962	30.216	-1.46856	-0.11985	-0.28677	-0.32974	0.002314
AE003852	2332250	49.458	23.206	34.212	36.044	25.042	-1.4512	-1.49307	-0.76748	-0.18106	-0.84507
AE003852	2332750	54.406	23.554	31.08	30.086	23.074	-0.97922	-1.4458	-1.17789	-1.00628	-1.16821
AE003852	2333250	57.486	34.586	34.416	30.414	33.606	-0.68588	0.081512	-0.74295	-0.9619	0.552663
AE003852	2333750	77.938	36.794	26.348	41.206	34.376	1.268708	0.386443	-1.79847	0.530038	0.677244
AE003852	2334250	59.496	32.08	27.576	42.044	30.698	-0.49604	-0.26753	-1.63904	0.644963	0.074484
AE003852	2334750	53.774	26.496	45.25	32.158	28.068	-1.04441	-1.04201	0.6698	-0.72365	-0.35691
AE003852	2335250	58.366	29.424	43.84	37.136	32.024	-0.60648	-0.63734	0.484454	-0.03601	0.288654
AE003852	2335750	71.098	35.944	40.416	35.582	30.77	0.609864	0.264927	0.035889	-0.25198	0.082268
AE003852	2336250	63.836	35.092	40.598	31.484	26.928	-0.08577	0.145958	0.05861	-0.8199	-0.54731
AE003852	2336750	58.672	28.98	37.004	32.718	22.284	-0.58078	-0.70167	-0.41217	-0.65019	-1.30803
AE003852	2337250	72.452	27.988	26.522	36.418	25.81	0.73578	-0.84004	-1.78318	-0.13934	-0.73279
AE003852	2337750	72.88	27.71	32.402	38.33	23.63	0.775521	-0.87949	-1.01576	0.124159	-1.09059
AE003852	2338250	55.864	41.228	49.944	39.836	34.46	-0.85286	0.992206	1.275824	0.331493	0.679014
AE003852	2338750	56.854	51.706	52.054	45.294	33.644	-0.75938	2.442774	1.550525	1.08554	0.544251
AE003852	2339250	56.442	34.932	35.158	40.106	21.948	-0.79997	0.118143	-0.65876	0.36684	-1.36962
AE003852	2339750	76.454	32.758	28.788	36.978	27.716	1.112541	-0.18396	-1.49236	-0.06688	-0.42776
AE003852	2340250	80.846	29.898	30.17	34.1	30.148	1.531349	-0.5811	-1.3128	-0.46602	-0.03141
AE003852	2340750	54.372	35.476	35.68	44.414	24.296	-1.00148	0.190678	-0.59374	0.959793	-0.98966
AE003852	2341250	57.75	35.736	37.936	43.25	31.376	-0.67964	0.225754	-0.29995	0.797765	0.166737
AE003852	2341750	65.888	40.092	32.9	36.338	32.936	0.097389	0.828246	-0.9592	-0.15943	0.4205
AE003852	2342250	57.414	30.464	40.816	34.808	26.536	-0.71415	-0.50646	0.074316	-0.37209	-0.62737
AE003852	2342750	56.418	40.942	45.758	30.452	34.022	-0.81058	0.944112	0.719146	-0.97569	0.595425
AE003852	2343250	78.982	36.604	36.3	38.164	29.33	1.345972	0.342231	-0.51803	0.090168	-0.17315
AE003852	2343750	76.88	38.37	38.376	39.054	27.816	1.143775	0.585932	-0.24778	0.212287	-0.42205
AE003852	2344250	60.524	38.898	42.452	32.456	30.472	-0.4215	0.658133	0.283871	-0.70147	0.010936
AE003852	2344750	66.132	39.856	52.628	34.094	30.854	0.113594	0.789903	1.612759	-0.47587	0.072071
AE003852	2345250	84.262	39.008	52.458	31.97	24.39	1.846133	0.671488	1.589475	-0.77071	-0.98626
AE003852	2345750	78.096	19.138	49.734	42.376	23.958	1.255306	-2.08203	1.232396	0.667836	-1.05823
AE003852	2346250	69.692	28.076	64.432	38.248	32.14	0.450464	-0.8448	3.152286	0.095774	0.278371
AE003852	2346750	77.894	36.528	41.946	37.534	29.086	1.233613	0.325111	0.212412	-0.004	-0.22235
AE003852	2347250	67.822	39.338	34.822	33.768	37.282	0.269265	0.713436	-0.71972	-0.52599	1.116538

AE003852	2347750	69.728	37.33	34.57	38.888	27.104	0.450343	0.434328	-0.75373	0.181304	-0.54911
AE003852	2348250	70.616	35.156	30.572	45.736	21.504	0.534072	0.132224	-1.27731	1.12764	-1.46616
AE003852	2348750	79.216	29.386	25.398	40.456	20.624	1.35528	-0.66803	-1.95459	0.396213	-1.61139
AE003852	2349250	69.526	25.264	27.95	33.106	27.13	0.427462	-1.23999	-1.62212	-0.62157	-0.54885
AE003852	2349750	75.382	24.99	35.194	45.092	34.274	0.986269	-1.27889	-0.67643	1.035544	0.618018
AE003852	2350250	62.97	22.85	36.09	53.53	34.904	-0.20185	-1.57628	-0.5604	2.201838	0.719707
AE003852	2350750	62.158	28.788	36.742	39.94	27.876	-0.28069	-0.75464	-0.47625	0.320821	-0.43085
AE003852	2351250	57.384	20	29.866	42.532	31.82	-0.7384	-1.97297	-1.37597	0.678391	0.212748
AE003852	2351750	61.662	28.482	42.094	45.42	22.676	-0.33049	-0.79891	0.221101	1.076909	-1.28382
AE003852	2352250	63.694	30.092	44.79	29.454	20.078	-0.13737	-0.57682	0.572389	-1.1328	-1.70998
AE003852	2352750	59.258	30.178	38.496	34.398	25.79	-0.56276	-0.56585	-0.25127	-0.44986	-0.77727
AE003852	2353250	48.94	45.162	34.756	34.658	33.182	-1.55063	1.50893	-0.74114	-0.41489	0.430146
AE003852	2353750	47.928	29.49	31.018	40.222	36.166	-1.64859	-0.66304	-1.23074	0.353818	0.916763
AE003852	2354250	40.124	26.946	36.604	42.802	35.276	-2.39606	-1.0164	-0.50174	0.709728	0.7699
AE003852	2354750	49.322	28.814	30.214	39.79	28.748	-1.51766	-0.75857	-1.33795	0.292051	-0.2989
AE003852	2355250	56.766	26.518	34.042	31.378	30.712	-0.807	-1.07757	-0.83871	-0.87265	0.02093
AE003852	2355750	55.57	31.164	41.366	30.498	33.612	-0.92256	-0.43491	0.117431	-0.99539	0.493812
AE003852	2356250	72.75	38.222	46.822	49.134	26.864	0.719133	0.541888	0.829438	1.581675	-0.61096
AE003852	2356750	57.424	41.764	51.396	49.592	28.096	-0.74764	1.031616	1.426171	1.644032	-0.41083
AE003852	2357250	63.124	31.426	48.146	42.73	28.174	-0.20375	-0.40144	1.000347	0.693753	-0.39941
AE003852	2357750	74.898	32.692	42.342	41.08	27.91	0.920977	-0.227	0.240727	0.464493	-0.4439
AE003852	2358250	75.608	52.804	54.136	52.596	25.57	0.987684	2.558154	1.781079	2.056592	-0.82787
AE003852	2358750	73.042	34.022	38.976	48.236	25.644	0.741116	-0.04464	-0.20132	1.452436	-0.8171
AE003852	2359250	59.414	27.81	42.304	41.668	39.6	-0.56328	-0.90613	0.232565	0.542829	1.46367
AE003852	2359750	62.582	35.584	47.616	29.692	30.424	-0.26152	0.169856	0.925751	-1.11491	-0.03813
AE003852	2360250	75.964	36.602	44.696	24.708	27.96	1.016976	0.309937	0.543056	-1.80539	-0.44238
AE003852	2360750	64.882	34.198	40.108	26.042	26.91	-0.04396	-0.02403	-0.05764	-1.62185	-0.6154
AE003852	2361250	72.936	44.146	33.574	33.72	27.708	0.72504	1.353118	-0.91266	-0.56069	-0.48624
AE003852	2361750	54.21	31.348	39.516	31.952	24.382	-1.06687	-0.42072	-0.13714	-0.80628	-1.03144
AE003852	2362250	70.858	37.868	34.864	32.102	21.066	0.52395	0.481548	-0.7462	-0.78653	-1.57501
AE003852	2362750	83.534	39.624	30.382	31.154	26.098	1.734936	0.723864	-1.33304	-0.91867	-0.7535
AE003852	2363250	83.064	27.362	21.274	29.922	24.004	1.688803	-0.97572	-2.52448	-1.09011	-1.09724
AE003852	2363750	57.434	30.256	28.556	32.996	27.842	-0.76332	-0.57576	-1.57382	-0.66586	-0.47098
AE003852	2364250	64.354	30.444	26.374	36.766	23.474	-0.10276	-0.55066	-1.86006	-0.14533	-1.18657
AE003852	2364750	69.502	26.538	27.512	26.814	31.906	0.388339	-1.0927	-1.7124	-1.52307	0.190912
AE003852	2365250	62.36	24.626	28.04	32.864	23.306	-0.29582	-1.35851	-1.64445	-0.68713	-1.2167
AE003852	2365750	63.496	34.324	49.004	43.808	34.626	-0.18838	-0.01599	1.09437	0.825841	0.63303

AE003852	2366250	62.588	30.38	42.136	33.518	23.108	-0.27639	-0.56329	0.195692	-0.59866	-1.25174
AE003852	2366750	81.706	41.48	35.33	47.816	22.126	1.550625	0.973441	-0.69488	1.378295	-1.41364
AE003852	2367250	62.638	43.454	34.906	47.932	30.512	-0.27399	1.245956	-0.75136	1.39334	-0.04368
AE003852	2367750	68.732	31.474	48.624	38.036	43.32	0.307578	-0.41457	1.040444	0.023344	2.049366
AE003852	2368250	70.298	24.082	48.668	24.838	19.438	0.456142	-1.43952	1.04513	-1.80344	-1.85718
AE003852	2368750	71.264	38.564	48.978	41.822	19.816	0.547331	0.565723	1.08458	0.545087	-1.7967
AE003852	2369250	75.214	38.578	47.428	41.654	34.104	0.923871	0.566721	0.880937	0.520844	0.538365
AE003852	2369750	63.898	49.536	49.31	39.098	30.336	-0.15944	2.083782	1.125839	0.16625	-0.07911
AE003852	2370250	67.522	49.35	49.822	39.692	30.694	0.185929	2.057074	1.19169	0.24742	-0.0219
AE003852	2370750	72.15	35.77	37.652	37.082	38.344	0.627305	0.174906	-0.39993	-0.11464	1.227706
AE003852	2371250	77.128	34.468	39.766	41.818	34.852	1.10215	-0.0064	-0.12471	0.539522	0.65536
AE003852	2371750	62.316	22.466	37.938	37.99	33.568	-0.31547	-1.66997	-0.36469	0.008962	0.44407
AE003852	2372250	69.338	34.928	45.498	32.222	27.194	0.354836	0.055439	0.622303	-0.78997	-0.59954
AE003852	2372750	79.716	35.942	57.436	31.084	27.094	1.34607	0.194966	2.181474	-0.94841	-0.61723
AE003852	2373250	85.374	32.214	54.548	32.544	43.226	1.885943	-0.32241	1.802962	-0.74743	2.019369
AE003852	2373750	76.912	26.832	44.894	38.8	29.446	1.075555	-1.06892	0.540166	0.117006	-0.23528
AE003852	2374250	59.86	33.454	47.964	32.84	28.51	-0.55627	-0.15252	0.940335	-0.70849	-0.38967
AE003852	2374750	59.91	40.936	51.804	44.212	29.756	-0.55268	0.883014	1.441138	0.863687	-0.18725
AE003852	2375250	49.994	28.408	43.932	32.85	38.218	-1.50211	-0.85342	0.411241	-0.70911	1.195136
AE003852	2375750	54.842	23.346	37.404	25.03	31.214	-1.0397	-1.5556	-0.443	-1.79192	0.048504
AE003852	2376250	67.196	34.602	29.228	44.274	31.976	0.140498	0.002745	-1.51263	0.869257	0.171777
AE003852	2376750	75.142	43.346	37.102	45.042	31.492	0.899166	1.213103	-0.4846	0.974498	0.091303
AE003852	2377250	69.87	43.16	47.054	36.136	35.692	0.39383	1.186395	0.81501	-0.25854	0.776763
AE003852	2377750	46.734	34.836	46.198	30.076	25.176	-1.8198	0.032336	0.702069	-1.09787	-0.94416
AE003852	2378250	59.374	37.994	36.29	34.666	25.122	-0.61225	0.46887	-0.59392	-0.46391	-0.95432
AE003852	2378750	67.63	38.36	35.12	38.97	18.516	0.17606	0.51863	-0.7479	0.1305	-2.03587
AE003852	2379250	62.748	40.754	44.39	35.638	20.614	-0.29198	0.849327	0.462576	-0.33145	-1.69413
AE003852	2379750	54.826	33.796	43.336	32.126	29.8	-1.05073	-0.1155	0.323758	-0.81829	-0.19335
AE003852	2380250	55.842	34.112	41.888	25.494	29.36	-0.95476	-0.07267	0.133446	-1.73675	-0.26663
AE003852	2380750	66.966	25.57	40.942	32.442	23.504	0.107812	-1.25693	0.008743	-0.77658	-1.22554
AE003852	2381250	65.736	38.372	37.174	46.474	36.822	-0.011	0.515584	-0.48478	1.163577	0.950905
AE003852	2381750	72.918	34.852	37.272	44.542	38.562	0.674611	0.027019	-0.47304	0.895305	1.234103
AE003852	2382250	68.372	33.098	35.578	33.468	46.256	0.2387	-0.2169	-0.6955	-0.63765	2.490906
AE003852	2382750	60.606	32.062	39.084	36.852	40.134	-0.50513	-0.36136	-0.23835	-0.17052	1.488499
AE003852	2383250	67.454	26.818	38.57	40.468	32.538	0.148538	-1.08875	-0.30659	0.328709	0.245062
AE003852	2383750	64.04	30.91	57.52	48.714	24.274	-0.17912	-0.52283	2.169013	1.468442	-1.10761
AE003852	2384250	56.112	31.296	52.55	49.926	23.476	-0.93845	-0.4703	1.518393	1.635105	-1.23943

AE003852	2384750	51.982	36.988	34.596	41.616	24.364	-1.33457	0.317268	-0.82917	0.484514	-1.09555
AE003852	2385250	57.208	38.408	38.414	43.802	23.018	-0.83601	0.513037	-0.33124	0.785918	-1.31698
AE003852	2385750	52.676	36.374	47.512	39.12	26.568	-1.27059	0.230327	0.856755	0.137217	-0.73781
AE003852	2386250	48.03	37.004	41.77	42.082	35.866	-1.71606	0.316659	0.105239	0.545972	0.781283
AE003852	2386750	64.53	29.58	33.43	50.102	32.596	-0.13939	-0.71272	-0.98582	1.654441	0.245239
AE003852	2387250	58.12	25.526	38.938	42.782	30.14	-0.75355	-1.27526	-0.26702	0.640804	-0.1577
AE003852	2387750	41.916	28.662	45.504	35.118	26.214	-2.30429	-0.84178	0.590058	-0.42042	-0.80101
AE003852	2388250	60.234	28.74	44.672	43.606	30.162	-0.55377	-0.83191	0.480254	0.75279	-0.15676
AE003852	2388750	66.5	29.398	38.742	49.224	32.744	0.044241	-0.7417	-0.29583	1.528971	0.264122
AE003852	2389250	44.574	29.514	50.878	41.89	42.542	-2.05368	-0.72657	1.289216	0.513397	1.864973
AE003852	2389750	66.888	37.458	49.188	39.224	27.158	0.078969	0.37296	1.067276	0.143585	-0.65197
AE003852	2390250	83.092	43.146	47.49	38.738	28.65	1.627329	1.159972	0.844291	0.07535	-0.40932
AE003852	2390750	68.894	40.334	39.506	43.376	42.702	0.268422	0.769486	-0.20024	0.71596	1.887148
AE003852	2391250	69.512	32.39	41.556	44.834	38.562	0.326331	-0.33193	0.066615	0.916655	1.20884
AE003852	2391750	77.498	34.592	48.546	55.286	38.242	1.088825	-0.02783	0.979108	2.361562	1.155184
AE003852	2392250	64.53	37.684	47.742	50.598	37.996	-0.15246	0.399559	0.872964	1.712031	1.113628
AE003852	2392750	69.524	39.618	43.796	43.584	37.568	0.323915	0.666533	0.356176	0.740725	1.042311
AE003852	2393250	59.372	29.166	40.638	46.886	49.78	-0.64808	-0.78232	-0.05762	1.196515	3.037903
AE003852	2393750	62.15	35.476	44.354	44.894	38.742	-0.38362	0.090861	0.426973	0.919943	1.231626
AE003852	2394250	59.8	38.234	30.546	39.348	35.608	-0.60953	0.471983	-1.37873	0.151718	0.717821
AE003852	2394750	57.484	34.952	37.838	38.458	29.236	-0.83219	0.016389	-0.42677	0.027594	-0.32547
AE003852	2395250	54.32	24.79	35.558	54.922	25.128	-1.13595	-1.39229	-0.72582	2.30419	-0.99854
AE003852	2395750	45.634	33.296	41.004	54.262	22.904	-1.96775	-0.2149	-0.01512	2.211885	-1.36354
AE003852	2396250	66.004	39.212	48.898	38.486	24.346	-0.02101	0.603698	1.015524	0.028461	-1.12907
AE003852	2396750	62.882	46.722	42.752	36.476	30.944	-0.32075	1.643111	0.211207	-0.2506	-0.05149
AE003852	2397250	56.814	45.798	38.666	38.626	29.408	-0.9022	1.514168	-0.32388	0.045823	-0.30399
AE003852	2397750	58.622	34.506	35.352	49.412	34.744	-0.7305	-0.05105	-0.75807	1.536935	0.567231
AE003852	2398250	53.724	29.19	30.282	48.678	35.886	-1.20007	-0.78841	-1.42176	1.434393	0.752643
AE003852	2398750	52.976	29.572	30.446	28.73	21.216	-1.27278	-0.73643	-1.40139	-1.32618	-1.64754
AE003852	2399250	58.232	36.304	52.676	34.718	24.846	-0.77135	0.195205	1.502897	-0.49881	-1.05529
AE003852	2399750	51.178	37.554	42.026	30.63	30.228	-1.4471	0.367425	0.109929	-1.06534	-0.17655
AE003852	2400250	69.918	38.19	39.44	40.582	34.258	0.343772	0.454588	-0.22911	0.310398	0.481112
AE003852	2400750	75.81	39.992	33.15	54.898	33.096	0.906021	0.703276	-1.05225	2.289844	0.289771
AE003852	2401250	84.636	36.58	33.6	39.246	23.19	1.748842	0.229673	-0.9945	0.123574	-1.3314
AE003852	2401750	72.59	35.334	33.914	45.404	28.928	0.595725	0.056124	-0.95453	0.974457	-0.39445
AE003852	2402250	50.572	25.914	36.382	46.172	38.628	-1.51099	-1.24976	-0.63304	1.079699	1.190381
AE003852	2402750	62.412	28.276	38.696	42.218	31.346	-0.37995	-0.9235	-0.33168	0.531707	-0.00171

AE003852	2403250	61.382	35.458	32.234	37.608	22.878	-0.47963	0.070476	-1.17729	-0.10703	-1.38774
AE003852	2403750	63.866	39.852	36.614	34.76	23.914	-0.24328	0.678232	-0.60592	-0.50202	-1.21966
AE003852	2404250	71.058	33.784	35.374	34.694	25.474	0.443283	-0.16331	-0.76904	-0.51216	-0.9659
AE003852	2404750	74.372	34.398	37.024	36.132	22.576	0.759005	-0.07919	-0.55446	-0.31423	-1.44111
AE003852	2405250	61.898	35.264	30.132	39.38	25.524	-0.43504	0.039835	-1.45628	0.134092	-0.96038
AE003852	2405750	59.748	32.52	26.952	41.38	32.532	-0.64183	-0.34123	-1.87295	0.409766	0.184249
AE003852	2406250	71.562	43.63	30.014	45.824	33.218	0.486728	1.196887	-1.47383	1.023538	0.295095
AE003852	2406750	97.414	38.58	31.548	37.486	41.426	2.957702	0.496373	-1.27441	-0.13093	1.635948
AE003852	2407250	96.512	43.988	46.042	35.58	41.912	2.870258	1.244597	0.618819	-0.3956	1.714089
AE003852	2407750	69.77	38.026	53.912	53.516	33.16	0.311799	0.417744	1.646323	2.084627	0.281622
AE003852	2408250	63.2	21.732	49.396	37.792	29.152	-0.31766	-1.84039	1.055039	-0.0916	-0.3751
AE003852	2408750	61.57	23.982	34.898	37.66	31.602	-0.47472	-1.52964	-0.84084	-0.11087	0.024196
AE003852	2409250	58.856	29.402	25.562	34.224	25.476	-0.73544	-0.77976	-2.06208	-0.5872	-0.97886
AE003852	2409750	55.26	28.698	41.536	40.44	28.568	-1.08051	-0.87822	0.024579	0.271709	-0.47459
AE003852	2410250	70.016	36.694	38.86	24.608	31.812	0.329384	0.228515	-0.32623	-1.91946	0.054547
AE003852	2410750	56.934	25.258	33.77	33.008	33.6	-0.9228	-1.35665	-0.99253	-0.75842	0.345593
AE003852	2411250	51.39	25.754	35.306	30.838	38.01	-1.45415	-1.28888	-0.79285	-1.05962	1.065393
AE003852	2411750	67.654	23.66	43.298	39.844	41.212	0.099948	-1.5799	0.250602	0.18525	1.587658
AE003852	2412250	64.46	27.866	55.902	46.304	39.978	-0.20667	-0.99819	1.896817	1.077912	1.384543
AE003852	2412750	55.56	29.158	36.832	48.012	25.5	-1.05895	-0.82015	-0.5966	1.313191	-0.98425
AE003852	2413250	62.466	40.15	40.94	37.932	24.386	-0.39973	0.701622	-0.06077	-0.08226	-1.16774
AE003852	2413750	76.452	30.548	38.06	33.296	26.964	0.936526	-0.62948	-0.43824	-0.7246	-0.74751
AE003852	2414250	82.204	41.67	32.774	33.18	28.068	1.485388	0.910303	-1.13016	-0.74165	-0.56831
AE003852	2414750	94.594	44.146	40.104	45.21	24.778	2.669024	1.252359	-0.17323	0.921558	-1.10763
AE003852	2415250	92.752	29.982	35.332	47.188	31.798	2.49169	-0.71071	-0.79797	1.194188	0.038962
AE003852	2415750	79.568	41.436	32.1	40.516	29.524	1.22975	0.875062	-1.22144	0.270194	-0.33422
AE003852	2416250	64.802	42.926	48.192	48.62	33.922	-0.18347	1.080529	0.880635	1.390284	0.383622
AE003852	2416750	58.894	33.046	46.184	35.45	33.126	-0.74963	-0.28908	0.617134	-0.43263	0.252129
AE003852	2417250	65.252	24.37	36.784	39.08	25.974	-0.14282	-1.4919	-0.61247	0.068533	-0.9187
AE003852	2417750	57.446	25.264	44.818	37.244	23.234	-0.89047	-1.369	0.436473	-0.18646	-1.36808
AE003852	2418250	61.618	33.488	41.608	38.174	26.254	-0.4927	-0.23068	0.015877	-0.05881	-0.87558
AE003852	2418750	59.306	32.898	33.854	38.03	27.23	-0.71498	-0.31335	-0.9986	-0.07973	-0.71731
AE003852	2419250	62.658	32.838	41.306	38.464	29.016	-0.39563	-0.3226	-0.02572	-0.02069	-0.42659
AE003852	2419750	72.252	41.278	50.11	44.888	38.848	0.520635	0.845641	1.123849	0.866989	1.17982
AE003852	2420250	67.904	42.496	42.444	36.532	25.836	0.103658	1.013428	0.120876	-0.28997	-0.94925
AE003852	2420750	60.99	33.13	42.738	38.448	26.24	-0.5587	-0.28498	0.158235	-0.02591	-0.88451
AE003852	2421250	60.634	30.778	29.454	44.57	28.33	-0.59393	-0.61174	-1.57898	0.81999	-0.54409

AE003852	2421750	51.778	35.026	34.866	38.026	26.02	-1.44199	-0.02421	-0.87273	-0.0863	-0.92315
AE003852	2422250	63.192	40.634	32.88	41.02	33.44	-0.35169	0.75172	-1.13335	0.326885	0.288849
AE003852	2422750	61.844	32.616	39.922	46.23	27.414	-0.48178	-0.35995	-0.21406	1.046625	-0.69786
AE003852	2423250	68.108	27.968	37.362	28.17	37.552	0.116038	-1.00477	-0.54971	-1.45276	0.958589
AE003852	2423750	83.852	23.816	35.982	34.76	43.586	1.62041	-1.58089	-0.73113	-0.54212	1.943947
AE003852	2424250	58.076	25.86	49.916	48.27	35.962	-0.84567	-1.29868	1.088905	1.325827	0.695931
AE003852	2424750	54.938	29.548	43.236	44.526	40.952	-1.14694	-0.78872	0.214797	0.806887	1.510573
AE003852	2425250	63.128	29.448	34.892	33.526	31.874	-0.36494	-0.80352	-0.87679	-0.71583	0.024797
AE003852	2425750	70.022	30.246	40.104	44.732	35.014	0.293129	-0.69391	-0.19667	0.83338	0.536924
AE003852	2426250	66.882	32.062	49.32	33.252	33.716	-0.00833	-0.44329	1.006749	-0.75574	0.323344
AE003852	2426750	85.04	35.53	44.944	35.062	35.988	1.726887	0.036192	0.433762	-0.50635	0.693535
AE003852	2427250	86.818	41.8	50.286	31.92	39.506	1.895725	0.903828	1.13087	-0.94201	1.267473
AE003852	2427750	75.31	35.074	46.328	36.086	38.238	0.794056	-0.02886	0.612513	-0.3667	1.058799
AE003852	2428250	71.35	28.006	43.292	37.066	31.888	0.414183	-1.00893	0.214658	-0.23213	0.019109
AE003852	2428750	65.35	25.554	49.07	33.324	36.898	-0.16077	-1.34954	0.968748	-0.7508	0.837021
AE003852	2429250	72.994	27.058	46.13	33.392	26.076	0.569018	-1.14214	0.58344	-0.74239	-0.93394
AE003852	2429750	81.314	27.106	36.768	47.812	18.522	1.363451	-1.13643	-0.64119	1.251442	-2.1705
AE003852	2430250	66.85	26.134	42.424	43.038	25.908	-0.02089	-1.27202	0.096953	0.590014	-0.96407
AE003852	2430750	78.322	35.058	39.116	42.544	37.004	1.074958	-0.03673	-0.33645	0.520672	0.849036
AE003852	2431250	67.206	33.292	34.168	42.032	36.02	0.010774	-0.28231	-0.9842	0.448841	0.686801
AE003852	2431750	57.21	48.55	44.414	34.372	30.66	-0.94631	1.830425	0.35384	-0.61183	-0.191
AE003852	2432250	60.258	39.524	57.098	32.472	27.986	-0.65602	0.579119	2.01051	-0.87568	-0.62959
AE003852	2432750	70.974	36.54	48.776	46.148	33.078	0.367535	0.164806	0.9218	1.015233	0.201733
AE003852	2433250	77.406	35.93	39.678	34.072	31.916	0.981423	0.079362	-0.26833	-0.65634	0.010392
AE003852	2433750	73.364	26.238	41.154	32.998	26.094	0.593709	-1.2642	-0.07649	-0.80592	-0.94296
AE003852	2434250	60.456	40.016	39.432	41.39	35.952	-0.64184	0.643509	-0.30261	0.354013	0.667704
AE003852	2434750	63.618	56.856	37.596	45.518	33.364	-0.34065	2.975399	-0.54363	0.924071	0.243182
AE003852	2435250	47.676	43.696	50.466	39.072	19.77	-1.86633	1.151413	1.137348	0.031341	-1.98106
AE003852	2435750	55.21	46.312	43.724	40.566	34.882	-1.14706	1.512864	0.255136	0.237016	0.488748
AE003852	2436250	68.252	44.338	34.982	35.106	38.484	0.098921	1.238465	-0.88847	-0.51931	1.076422
AE003852	2436750	56.646	44.904	44.744	42.228	41.482	-1.01212	1.315931	0.386314	0.464929	1.565329
AE003852	2437250	62.732	32.376	50.412	35.258	29.774	-0.43132	-0.4205	1.126028	-0.50029	-0.35051
AE003852	2437750	68.456	41.018	43.778	41.922	24.36	0.114865	0.775723	0.257932	0.420593	-1.23714
AE003852	2438250	68.62	33.606	34.726	38.72	23.044	0.12936	-0.252	-0.92618	-0.02337	-1.45366
AE003852	2438750	67.366	29.856	37.07	45.052	40.706	0.008255	-0.77242	-0.6209	0.851586	1.433118
AE003852	2439250	52.262	40.642	35.344	35.532	43.736	-1.43729	0.720811	-0.84755	-0.46639	1.927258
AE003852	2439750	65.154	51.35	40.036	30.912	42.026	-0.20565	2.20324	-0.23539	-1.10652	1.646307

AE003852	2440250	70.606	29.776	37.746	47.72	37.248	0.314524	-0.78633	-0.53575	1.217665	0.863672
AE003852	2440750	60.45	30.76	41.092	51.602	21.71	-0.65786	-0.65096	-0.09951	1.753691	-1.67845
AE003852	2441250	72.57	43.848	36.436	43.468	29.092	0.49996	1.161169	-0.70909	0.627447	-0.47267
AE003852	2441750	65.13	45.964	43.818	34.77	28.502	-0.2127	1.453355	0.254636	-0.57682	-0.57047
AE003852	2442250	75.804	30.094	36.584	30.04	25.426	0.806844	-0.74604	-0.69188	-1.23216	-1.07479
AE003852	2442750	72.228	33.142	36.748	39.57	35.554	0.463692	-0.32475	-0.67151	0.085198	0.580019
AE003852	2443250	75.246	35.114	36.852	44.542	39.644	0.751108	-0.05251	-0.65898	0.772012	1.247492
AE003852	2443750	71.914	37.604	44.12	40.796	34.392	0.431289	0.291485	0.289844	0.252795	0.387349
AE003852	2444250	71.104	40.59	31.902	34.12	33.408	0.352643	0.704191	-1.30805	-0.67175	0.225114
AE003852	2444750	80.18	40.798	31.07	34.642	42.112	1.21937	0.732064	-1.41786	-0.60054	1.647073
AE003852	2445250	86.206	51.184	48.422	43.228	43.606	1.794433	2.169886	0.848898	0.586226	1.890045
AE003852	2445750	82.266	37.436	33.958	36.048	35.324	1.416473	0.264445	-1.04254	-0.40804	0.534432
AE003852	2446250	68.998	41.034	32.822	36.184	36.394	0.146499	0.761931	-1.19208	-0.39023	0.70807
AE003852	2446750	67.136	38.192	31.374	42.778	32.73	-0.03275	0.36729	-1.38239	0.520967	0.107599
AE003852	2447250	73	38.508	42.354	33.23	31.732	0.526824	0.410123	0.051579	-0.80089	-0.05693
AE003852	2447750	67.526	41.584	37.59	30.096	29.722	0.002171	0.835297	-0.57212	-1.23544	-0.38693
AE003852	2448250	77.17	38.22	38.666	36.36	34.432	0.923215	0.368344	-0.43256	-0.36989	0.381923
AE003852	2448750	79.424	35.472	43.02	52.04	44.132	1.137571	-0.01328	0.135425	1.798245	1.96675
AE003852	2449250	73.116	37.178	39.514	52.534	42.42	0.533165	0.222113	-0.32386	1.865582	1.685472
AE003852	2449750	65.344	42.442	40.452	51.414	44.192	-0.21124	0.950389	-0.20233	1.709641	1.973902
AE003852	2450250	85.344	40.452	36.87	52.634	45.42	1.700122	0.673774	-0.67155	1.877411	2.173376
AE003852	2450750	82.426	41.694	45.204	47.368	40.64	1.419893	0.844886	0.416601	1.14792	1.390415
AE003852	2451250	75.784	33.52	40.05	44.21	38.298	0.783547	-0.28839	-0.25807	0.710046	1.006119
AE003852	2451750	66.246	35.878	38.44	37.944	34.012	-0.12974	0.037317	-0.46955	-0.15778	0.303937
AE003852	2452250	63.674	41.302	38.114	35.23	30.492	-0.37688	0.787757	-0.51322	-0.53423	-0.27299
AE003852	2452750	83.37	44.2	38.142	44.2	38.17	1.505413	1.188273	-0.51063	0.705655	0.981199
AE003852	2453250	78.248	38.224	39.72	44.278	34.04	1.014421	0.359481	-0.30546	0.715443	0.304527
AE003852	2453750	73.404	35.61	44.208	38.952	25.52	0.550014	-0.00358	0.280036	-0.02235	-1.09
AE003852	2454250	63.078	40.738	44.024	46.914	30.328	-0.43862	0.70586	0.254923	1.078098	-0.30512
AE003852	2454750	82.39	37.466	40.326	39.566	35.116	1.406946	0.251651	-0.22945	0.060587	0.476487
AE003852	2455250	73.006	45.814	40.838	33.526	41.322	0.50839	1.407151	-0.1636	-0.77598	1.48997
AE003852	2455750	68.832	36.202	33.684	35.446	37.772	0.108053	0.074667	-1.09966	-0.51137	0.90814
AE003852	2456250	65.892	48.836	45.348	53.146	25.504	-0.17428	1.823903	0.423701	1.936211	-1.09927
AE003852	2456750	60.494	34.786	53.158	54.374	26.996	-0.69167	-0.12337	1.443364	2.105088	-0.85662
AE003852	2457250	61.998	29.95	45.986	53.024	26.782	-0.54903	-0.79424	0.504954	1.917329	-0.89295
AE003852	2457750	68.836	45.916	47.594	41.896	28.856	0.103683	1.416573	0.714046	0.376901	-0.55513
AE003852	2458250	75.628	48.082	37.168	35.038	24.026	0.751997	1.715685	-0.64965	-0.57282	-1.34627

AE003852	2458750	57.93	36.732	37.84	41.768	26.278	-0.94161	0.142437	-0.56288	0.357189	-0.97935
AE003852	2459250	60.118	31.014	42.39	34.726	35.652	-0.73356	-0.65061	0.030712	-0.61799	0.552168
AE003852	2459750	59.626	38.76	51.588	42.658	38	-0.7818	0.421491	1.23178	0.478305	0.934786
AE003852	2460250	58.228	43.648	53.352	36.188	34.25	-0.91667	1.09768	1.46126	-0.41775	0.320252
AE003852	2460750	59.452	31.488	52.12	45.722	32.696	-0.80081	-0.58778	1.299179	0.900168	0.06481
AE003852	2461250	66	25.212	37.978	49.822	20.43	-0.17583	-1.45813	-0.55018	1.466352	-1.94227
AE003852	2461750	59.948	43.08	33.21	48.048	23.762	-0.75576	1.01617	-1.1744	1.219937	-1.39875
AE003852	2462250	60.236	37.134	30.222	42.286	32.834	-0.72941	0.191534	-1.56598	0.421831	0.083387
AE003852	2462750	63.306	32.388	37.286	35.756	26.342	-0.43702	-0.46687	-0.64381	-0.48252	-0.97952
AE003852	2463250	60.066	33.766	53.82	30.606	21.686	-0.74804	-0.27692	1.516033	-1.19596	-1.74221
AE003852	2463750	68.332	26.006	46.314	25.464	24.226	0.041231	-1.35284	0.533971	-1.9083	-1.32819
AE003852	2464250	103.276	29.78	39.282	26.47	25.034	3.38165	-0.83098	-0.38614	-1.77013	-1.1974
AE003852	2464750	82.15	31.264	36.212	29.052	32.54	1.360236	-0.62634	-0.78844	-1.41395	0.028664
AE003852	2465250	92.958	37.584	44.732	31.564	36.582	2.39259	0.248222	0.324015	-1.06744	0.688287
AE003852	2465750	70.48	32.202	54.846	38.294	30.524	0.241887	-0.49828	1.644799	-0.13743	-0.30365
AE003852	2466250	72.364	39.47	44.422	50.144	39.406	0.420861	0.507605	0.281368	1.500873	1.147412
AE003852	2466750	58.28	39.296	42.714	50.686	35.954	-0.92714	0.482559	0.057076	1.574849	0.581607
AE003852	2467250	61.726	29.88	32.2	34.46	38.308	-0.5988	-0.82277	-1.31812	-0.67083	0.965207
AE003852	2467750	62.48	43.06	39.38	38.23	36.856	-0.52788	1.0021	-0.38079	-0.15029	0.726444
AE003852	2468250	66.252	39.334	37.12	33.59	30.178	-0.16837	0.484998	-0.67723	-0.79319	-0.36688
AE003852	2468750	63.076	21.534	44.68	39.524	30.27	-0.47327	-1.98176	0.30976	0.02671	-0.35317
AE003852	2469250	56.384	34.642	48.402	38.212	26.776	-1.11439	-0.16686	0.795142	-0.15579	-0.92584
AE003852	2469750	55.768	39.716	40.658	31.99	25.49	-1.17449	0.535092	-0.21803	-1.01753	-1.13746
AE003852	2470250	59.104	43.708	35.658	32.958	20.286	-0.85666	1.087158	-0.87257	-0.88462	-1.98975
AE003852	2470750	63.434	39.432	38.098	27.434	28.84	-0.44378	0.493866	-0.55474	-1.64981	-0.59232
AE003852	2471250	62.382	42.756	49.918	32.898	26.946	-0.54557	0.953395	0.989014	-0.89493	-0.90336
AE003852	2471750	57.216	41.386	54.412	44.778	31.778	-1.04077	0.762669	1.575292	0.747524	-0.11455
AE003852	2472250	67.4	38.784	41.482	29.984	27.25	-0.06809	0.401274	-0.11566	-1.30005	-0.85631
AE003852	2472750	68.972	24.22	50.48	37.336	34.58	0.081049	-1.61721	1.059268	-0.28399	0.340974
AE003852	2473250	48.336	22.484	59.346	45.716	29.708	-1.89351	-1.85864	2.216945	0.874278	-0.45703
AE003852	2473750	58.278	27.1	42.586	40.78	24.012	-0.94397	-1.22013	0.02543	0.190439	-1.38978
AE003852	2474250	56.772	28.616	42.688	45.22	28.538	-1.08917	-1.01106	0.037696	0.803658	-0.65101
AE003852	2474750	56.802	37.662	33.894	30.682	35.7	-1.08749	0.241136	-1.1127	-1.2085	0.518799
AE003852	2475250	59.706	36.5	35.428	47.018	35.278	-0.81098	0.079223	-0.91328	1.050385	0.448464
AE003852	2475750	70.452	32.182	41.65	31.61	16.876	0.21545	-0.51989	-0.10116	-1.08213	-2.56198
AE003852	2476250	62.464	41.414	32.47	29.708	24.24	-0.54961	0.758072	-1.30201	-1.34625	-1.35914
AE003852	2476750	66.942	29.918	42.226	35.622	38.762	-0.12258	-0.8354	-0.02801	-0.52912	1.014183

AE003852	2477250	77.768	29.036	40.254	44.128	37.938	0.911496	-0.95853	-0.28681	0.646578	0.878112
AE003852	2477750	77.422	30.256	49.032	53.05	35.412	0.877221	-0.79046	0.859367	1.879828	0.463727
AE003852	2478250	73.48	32.79	52.268	39.34	26.946	0.49907	-0.44037	1.281231	-0.01779	-0.92197
AE003852	2478750	53.222	39.734	29.414	40.012	38.94	-1.43934	0.520635	-1.70674	0.074172	1.037971
AE003852	2479250	58.75	35.968	32.204	37.94	26.154	-0.9119	-0.00201	-1.34317	-0.21347	-1.05414
AE003852	2479750	67.032	26.278	25.69	40.616	26.53	-0.1211	-1.3453	-2.19558	0.155723	-0.99399
AE003852	2480250	64.674	15.22	28.04	41.22	32.878	-0.34778	-2.87809	-1.88951	0.238277	0.042717
AE003852	2480750	62.248	31.404	34.4	41.868	34.088	-0.58096	-0.63708	-1.05936	0.326918	0.239248
AE003852	2481250	55.854	45.646	32.116	33.284	36.714	-1.19359	1.334911	-1.35893	-0.86158	0.667325
AE003852	2481750	69.204	36.464	25.676	47.308	32.75	0.08185	0.061995	-2.20167	1.077472	0.017797
AE003852	2482250	72.554	39.176	40.294	42.292	35.908	0.401015	0.436744	-0.29224	0.382566	0.532868
AE003852	2482750	69.228	31.19	47.478	40.366	38.452	0.081769	-0.67049	0.645612	0.115124	0.947536
AE003852	2483250	51.552	37.844	39.76	37.408	32.462	-1.60973	0.25034	-0.36416	-0.29508	-0.03329
AE003852	2483750	59.922	35.39	32.61	38.046	24.72	-0.81052	-0.09055	-1.29969	-0.20782	-1.3006
AE003852	2484250	54.438	30.836	35.784	33.242	35.372	-1.33613	-0.72236	-0.88593	-0.8734	0.439902
AE003852	2484750	61.248	39.178	52.538	40.866	34	-0.68609	0.432313	1.302667	0.180284	0.214221
AE003852	2485250	61.892	41.66	45.28	41.726	27.754	-0.62569	0.775201	0.353017	0.298252	-0.80846
AE003852	2485750	64.386	43.31	40.408	48.916	26.782	-0.38839	1.002832	-0.28479	1.291901	-0.96873
AE003852	2486250	58.338	40.76	44.72	31.516	29.762	-0.96793	0.648641	0.277697	-1.11618	-0.48277
AE003852	2486750	46.604	27.788	50.9	28.138	25.646	-2.09121	-1.1493	1.084327	-1.58449	-1.15715
AE003852	2487250	68.684	27.116	44.808	40.11	33.112	0.019056	-1.24333	0.287067	0.070688	0.062366
AE003852	2487750	56.868	19.034	46.904	29.31	40.444	-1.11207	-2.36387	0.559939	-1.42437	1.259974
AE003852	2488250	59.428	21.326	39.334	31.924	45.646	-0.86845	-2.0473	-0.43049	-1.06375	2.109282
AE003852	2488750	50.606	32.784	34.242	25.432	32.434	-1.71326	-0.46098	-1.09705	-1.96285	-0.05249
AE003852	2489250	56.852	36.178	32.604	29.824	18.412	-1.11716	0.00825	-1.3122	-1.35627	-2.34671
AE003852	2489750	72.882	26.762	28.118	47.26	35.348	0.41456	-1.29708	-1.89956	1.054794	0.421352
AE003852	2490250	58.58	34.556	39.692	44.618	35.514	-0.95429	-0.21833	-0.38796	0.688302	0.447167
AE003852	2490750	56.582	35.118	35.604	45.226	36.56	-1.14654	-0.14142	-0.92331	0.771409	0.61688
AE003852	2491250	73.642	35.784	28.464	35.238	33.336	0.483673	-0.0501	-1.85754	-0.61131	0.088358
AE003852	2491750	73.918	30.576	35.432	37.196	39.714	0.508878	-0.7725	-0.94792	-0.34145	1.129967
AE003852	2492250	76.988	34.026	42.64	28.342	33.446	0.801267	-0.29551	-0.00693	-1.5673	0.103686
AE003852	2492750	71.59	29.194	50.368	35.666	37.354	0.283882	-0.96583	1.002012	-0.55511	0.741398
AE003852	2493250	58.054	33.784	41.614	32.812	38.57	-1.01172	-0.33092	-0.14316	-0.95093	0.93891
AE003852	2493750	64.28	37.364	37.442	36.172	33.66	-0.41753	0.164071	-0.68948	-0.48712	0.134691
AE003852	2494250	61.328	28.996	41.934	30.202	30.698	-0.70101	-0.99608	-0.10347	-1.314	-0.35099
AE003852	2494750	64.912	28.542	35.064	34.378	29.428	-0.35947	-1.05992	-1.00241	-0.7373	-0.55999
AE003852	2495250	65.032	43.662	34.932	38	28.912	-0.34918	1.033703	-1.02072	-0.23724	-0.6457

AE003852	2495750	86.2	47.908	51.222	46.934	40.11	1.673871	1.620956	1.107232	0.997667	1.184085
AE003852	2496250	83.87	51.052	43.354	39.484	32.504	1.449871	2.05555	0.077858	-0.03395	-0.06099
AE003852	2496750	76.792	54.38	49.152	36.528	28.712	0.771832	2.515633	0.834563	-0.44388	-0.68239
AE003852	2497250	62.894	65.588	39.414	32.986	35.764	-0.55839	4.067327	-0.43921	-0.93488	0.469432
AE003852	2497750	65.786	26.942	42.392	32.88	40.602	-0.28302	-1.28721	-0.05107	-0.95055	1.259219
AE003852	2498250	72.756	29.596	47.458	34.92	34.212	0.382315	-0.9205	0.609969	-0.66934	0.212988
AE003852	2498750	71.648	32.398	48.054	40.474	36.758	0.275172	-0.53328	0.686798	0.097989	0.627984
AE003852	2499250	78.418	21.688	57.25	44.698	32.42	0.921382	-2.01787	1.887604	0.681326	-0.0827
AE003852	2499750	86.128	26.942	51.864	56.12	30.99	1.657482	-1.29098	1.182615	2.260421	-0.31787
AE003852	2500250	84.094	30.962	39.828	53.688	38.152	1.461788	-0.73503	-0.3915	1.922981	0.851944
AE003852	2500750	66.946	25.31	41.28	42.748	38.816	-0.17922	-1.51894	-0.20279	0.40856	0.959192
AE003852	2501250	75.672	29.68	40.252	34.668	30.25	0.654037	-0.91451	-0.33821	-0.71021	-0.44286
AE003852	2501750	62.42	24.662	33.572	50.444	36.998	-0.61441	-1.61059	-1.21232	1.471205	0.659251
AE003852	2502250	58.764	35.024	38.936	45.31	19.85	-0.96521	-0.1761	-0.51234	0.759975	-2.14614
AE003852	2502750	72.302	35.412	45.156	58.176	29.844	0.328208	-0.12329	0.29952	2.53883	-0.51324
AE003852	2503250	72.096	40.914	31.03	48.672	26.444	0.307321	0.637958	-1.54774	1.223063	-1.07054
AE003852	2503750	73.276	38.702	30.304	39.588	32.21	0.418974	0.33059	-1.64369	-0.0346	-0.12901
AE003852	2504250	87.136	48.966	60.69	38.09	47.706	1.743183	1.751511	2.32654	-0.24284	2.403589
AE003852	2504750	92	41.116	64.912	38.11	27.058	2.207127	0.663116	2.877269	-0.24107	-0.97413
AE003852	2505250	74.846	50.286	40.444	38.262	32.27	0.565545	1.932487	-0.32164	-0.22105	-0.12318
AE003852	2505750	48.318	45.008	36.98	41.084	30.754	-1.97245	1.200388	-0.77544	0.168341	-0.37241
AE003852	2506250	58.352	42.12	39.874	41.47	28.978	-1.01411	0.799374	-0.39827	0.220738	-0.66416
AE003852	2506750	65.986	44.74	46.93	41.44	25.742	-0.28528	1.161379	0.522849	0.215585	-1.19464
AE003852	2507250	86.356	41.926	39.192	44.514	28.204	1.661465	0.770616	-0.48953	0.639834	-0.79338
AE003852	2507750	75.32	45.558	49.796	52.474	29.424	0.604932	1.272812	0.89529	1.740003	-0.59521
AE003852	2508250	61.788	43.072	42.778	45.788	29.19	-0.69029	0.927487	-0.02299	0.814072	-0.63481
AE003852	2508750	63.304	45.864	45.52	39.654	32.102	-0.5465	1.313319	0.334307	-0.0355	-0.15996
AE003852	2509250	68.176	35.62	47.974	28.438	38.974	-0.08179	-0.10672	0.653968	-1.5881	0.962425
AE003852	2509750	68.328	43.724	45.536	33.274	40.63	-0.06845	1.014983	0.334268	-0.9201	1.231887
AE003852	2510250	58.54	38.526	38.372	45.964	33.444	-1.00564	0.293967	-0.6031	0.83441	0.055494
AE003852	2510750	50.866	39.676	31.476	42.95	32.69	-1.74067	0.452334	-1.50544	0.416456	-0.06913
AE003852	2511250	66.942	54.224	28.23	41.876	21.032	-0.20455	2.466715	-1.93074	0.266879	-1.97679
AE003852	2511750	76.934	57.708	43.004	42.372	31.378	0.749771	2.948409	-0.00091	0.334492	-0.28633
AE003852	2512250	74.302	41.258	41.746	39.28	33.016	0.496892	0.668662	-0.16639	-0.09425	-0.01981
AE003852	2512750	66.156	39.186	33.466	46.444	31.574	-0.28328	0.380688	-1.24961	0.8958	-0.25694
AE003852	2513250	80.838	33.856	31.168	39.832	30.738	1.119537	-0.35861	-1.55102	-0.01989	-0.39497
AE003852	2513750	68.098	22.616	46.234	32.966	31.268	-0.09995	-1.91662	0.416969	-0.97073	-0.30964

AE003852	2514250	62.424	20.266	40.522	27.504	32.448	-0.64372	-2.24311	-0.33063	-1.72733	-0.11801
AE003852	2514750	73.826	36.016	46.054	31.884	45.35	0.445433	-0.06222	0.391313	-1.12241	1.990411
AE003852	2515250	57.23	33.938	38.932	48.214	35.778	-1.14279	-0.35102	-0.54056	1.135647	0.423856
AE003852	2515750	57.674	36.632	35.408	47.388	51.806	-1.10152	0.021234	-1.0022	1.020377	3.043445
AE003852	2516250	56.072	29.018	64.688	36.902	39.724	-1.2559	-1.03447	2.823488	-0.43124	1.066452
AE003852	2516750	64.982	31.492	72.01	48.384	41.54	-0.40505	-0.69269	3.779371	1.156157	1.362077
AE003852	2517250	63.95	36.968	64.052	39.704	50.298	-0.50492	0.064955	2.738235	-0.04562	2.792866
AE003852	2517750	64.28	35.966	50.36	36.956	41.52	-0.47456	-0.07479	0.947693	-0.42678	1.356147
AE003852	2518250	84.222	27.942	45.212	34.09	38.528	1.43126	-1.18729	0.27381	-0.82425	0.865562
AE003852	2518750	70.052	43.886	43.848	34.322	24.918	0.075031	1.020475	0.094476	-0.79316	-1.36129
AE003852	2519250	78.756	33.792	43.99	34.648	29.21	0.906184	-0.37878	0.111969	-0.74907	-0.66079
AE003852	2519750	72.456	32.734	40.794	34.844	28.878	0.302543	-0.52629	-0.3068	-0.72295	-0.71641
AE003852	2520250	65.766	42.64	44.148	46.952	25.732	-0.33839	0.845042	0.130488	0.95104	-1.23217
AE003852	2520750	71.682	29.684	49.7	38.944	32.15	0.226152	-0.95068	0.855042	-0.15777	-0.18402
AE003852	2521250	73.34	31.45	48.38	55.952	38.286	0.383514	-0.70698	0.681459	2.194078	0.818012
AE003852	2521750	76.298	25.354	43.944	44.694	31.404	0.665192	-1.5524	0.10063	0.635666	-0.30867
AE003852	2522250	59.702	28.26	35.116	38.242	41.872	-0.92303	-1.15077	-1.05421	-0.25789	1.40174
AE003852	2522750	50.742	34.834	36.84	39.342	37.074	-1.78104	-0.24102	-0.82996	-0.10672	0.615836
AE003852	2523250	53.688	41.896	40.266	36.78	26.572	-1.50051	0.736327	-0.38326	-0.46215	-1.10279
AE003852	2523750	54.542	38.584	35.086	31.11	22.44	-1.42003	0.276576	-1.06133	-1.24753	-1.77979
AE003852	2524250	70.114	32.406	37.302	43.224	23.762	0.067892	-0.5802	-0.77277	0.427297	-1.56495
AE003852	2524750	66.806	23.874	61.064	34.272	31.434	-0.24963	-1.76307	2.331736	-0.81211	-0.31174
AE003852	2525250	57.322	37.942	55.068	38.066	31.042	-1.15775	0.184816	1.547023	-0.28826	-0.37717
AE003852	2525750	73.772	42.764	55.874	38.382	39.82	0.414133	0.851862	1.651298	-0.24554	1.056887
AE003852	2526250	74.998	34.162	42.814	44.174	38.322	0.530184	-0.34071	-0.05664	0.554708	0.810603
AE003852	2526750	63.522	46.732	43.152	43.474	30.298	-0.56842	1.399662	-0.01353	0.456869	-0.50282
AE003852	2527250	61.266	42.514	50.176	43.172	37.822	-0.78535	0.814404	0.903401	0.414089	0.726183
AE003852	2527750	61.774	54.502	45.738	32.57	40.198	-0.73796	2.474151	0.322311	-1.05357	1.11338
AE003852	2528250	62.602	44.84	52.378	39.02	43.128	-0.65997	1.13474	1.189061	-0.1623	1.591168
AE003852	2528750	57.526	31.792	34.252	37.464	35.102	-1.14656	-0.67373	-1.18098	-0.37855	0.277417
AE003852	2529250	73.622	29.52	36.214	40.398	38.47	0.391473	-0.98941	-0.92562	0.02633	0.826826
AE003852	2529750	85.096	32.796	30.796	32.526	36.618	1.487515	-0.53653	-1.6348	-1.06367	0.522656
AE003852	2530250	68.178	38.232	42.348	31.184	40.428	-0.1315	0.215572	-0.12607	-1.25032	1.144342
AE003852	2530750	61.906	43.67	41.454	43.864	31.604	-0.73246	0.967952	-0.24398	0.502802	-0.2999
AE003852	2531250	63.358	46.87	49.822	53.532	38.336	-0.5948	1.410304	0.848612	1.839252	0.799596
AE003852	2531750	51.372	38.216	60.264	47.366	42.266	-1.74218	0.210531	2.212264	0.985257	1.440905
AE003852	2532250	69.916	39.298	40.352	38.076	33.428	0.029949	0.359478	-0.3912	-0.30091	-0.00563

AE003852	2532750	61.598	37.39	47.602	50.19	38.538	-0.76667	0.094222	0.555272	1.373919	0.828639
AE003852	2533250	60.338	35.884	58.6	54.312	34.984	-0.88835	-0.11534	1.991591	1.943147	0.246155
AE003852	2533750	69.132	34.77	43.232	33.424	35.236	-0.04859	-0.27061	-0.018	-0.94746	0.286032
AE003852	2534250	73.718	29.076	39.21	36.942	31.986	0.388773	-1.06033	-0.54472	-0.46179	-0.24674
AE003852	2534750	71.946	28.326	37.474	39.226	41.028	0.218133	-1.16517	-0.77267	-0.14683	1.230488
AE003852	2535250	64.18	36.882	40.738	46.826	40.652	-0.5257	0.019141	-0.34715	0.903538	1.167675
AE003852	2535750	73.636	40.384	46.072	34.664	44.112	0.377368	0.503329	0.348916	-0.77993	1.732129
AE003852	2536250	77.994	29.668	63.93	36.088	35.112	0.792924	-0.98209	2.681803	-0.58394	0.259108
AE003852	2536750	75.208	44.916	41.142	44.02	27.782	0.525318	1.12926	-0.29754	0.512354	-0.94083
AE003852	2537250	73.604	33.744	39.494	52.174	31.742	0.370744	-0.41933	-0.51399	1.639361	-0.29462
AE003852	2537750	73.404	32.934	30.69	42.486	41.852	0.35043	-0.53248	-1.6657	0.298139	1.357252
AE003852	2538250	80.618	41.588	40.696	50.34	47.602	1.039099	0.66541	-0.35903	1.383644	2.29617
AE003852	2538750	63.88	39.988	38.366	43.76	40.92	-0.5627	0.442821	-0.66461	0.472377	1.202191
AE003852	2539250	71.726	42.832	36.438	44.104	33.134	0.186403	0.835857	-0.91766	0.518963	-0.07231
AE003852	2539750	56.2	46.894	44.168	50.824	34.098	-1.2995	1.397621	0.091549	1.447592	0.08399
AE003852	2540250	56.858	50.406	51.312	48.474	26.108	-1.23776	1.883193	1.024169	1.121495	-1.22387
AE003852	2540750	50.462	47.2	40.114	38.378	34.188	-1.85058	1.438127	-0.44042	-0.27617	0.096048
AE003852	2541250	46.788	38.126	32.446	40.406	23.714	-2.20311	0.180172	-1.44365	0.003379	-1.618
AE003852	2541750	56.942	28.98	44.086	38.996	24.656	-1.23329	-1.08776	0.07657	-0.19268	-1.4653
AE003852	2542250	64.256	27.992	46.348	31.492	25.752	-0.53506	-1.22557	0.371137	-1.23177	-1.28741
AE003852	2542750	57.99	31.376	44.084	49.924	33.446	-1.13545	-0.75773	0.074178	1.317074	-0.0306
AE003852	2543250	62.844	30.694	43.516	41.312	29.504	-0.67246	-0.85314	-0.00112	0.124704	-0.67653
AE003852	2543750	63.242	27.728	39.994	42.52	30.66	-0.63559	-1.26496	-0.4625	0.290814	-0.48883
AE003852	2544250	62.292	29.272	47.004	36.962	31.724	-0.72763	-1.05202	0.452611	-0.47907	-0.31618
AE003852	2544750	66.132	23.686	44.144	32	31.224	-0.36161	-1.82678	0.077758	-1.16651	-0.39927
AE003852	2545250	59.936	27.7	30.71	29.044	41.532	-0.9553	-1.27167	-1.67906	-1.57644	1.284981
AE003852	2545750	61.874	40.764	41.274	32.35	33.396	-0.77116	0.537137	-0.29947	-1.12009	-0.04676
AE003852	2546250	71.582	38.666	42.024	38.138	29.898	0.156001	0.245561	-0.20251	-0.3204	-0.62008
AE003852	2546750	73.914	30.94	42.696	60.084	28.56	0.377816	-0.82566	-0.11575	2.71457	-0.84021
AE003852	2547250	60.126	34.906	40.62	43.476	26.572	-0.94188	-0.27719	-0.38814	0.416048	-1.16661
AE003852	2547750	61.474	35.51	24.098	30.98	24.626	-0.81417	-0.19446	-2.54855	-1.31363	-1.48616
AE003852	2548250	63.448	38.234	37.264	44.142	35.266	-0.62659	0.181949	-0.82888	0.506177	0.25238
AE003852	2548750	60.216	38.172	31.186	35.116	36.014	-0.93684	0.172419	-1.62431	-0.74347	0.373364
AE003852	2549250	75.076	30.482	29.818	32.612	31.804	0.482995	-0.89381	-1.80417	-1.09087	-0.31639
AE003852	2549750	63.286	23.414	33.764	28.388	31.234	-0.64564	-1.87388	-1.28951	-1.67621	-0.41093
AE003852	2550250	75.366	36.596	36.48	41.54	36.774	0.508351	-0.04873	-0.93561	0.142212	0.493651
AE003852	2550750	86.598	36.252	43.396	49.242	29.692	1.581251	-0.09732	-0.03279	1.206689	-0.66574

AE003852	2551250	60.168	34.466	41.638	38.882	33.044	-0.94737	-0.34568	-0.26361	-0.2275	-0.11894
AE003852	2551750	76.554	35.156	56.184	36.658	32.386	0.618393	-0.25104	1.63641	-0.53616	-0.22787
AE003852	2552250	96.72	36.716	43.972	31.422	25.884	2.545629	-0.03587	0.039296	-1.2615	-1.29241
AE003852	2552750	100.298	39.244	41.806	32.672	25.792	2.886596	0.313389	-0.24485	-1.08958	-1.30879
AE003852	2553250	76.702	40.402	43.026	33.694	32.692	0.628982	0.472864	-0.08647	-0.9492	-0.18182
AE003852	2553750	72.23	40.134	48.028	36.638	30.55	0.200148	0.434797	0.566199	-0.54294	-0.53341
AE003852	2554250	73.612	42.226	52.96	38.046	33.166	0.331117	0.723658	1.209722	-0.34916	-0.10697
AE003852	2554750	61.392	44.844	42.572	40.028	35.278	-0.83864	1.085386	-0.149	-0.07598	0.237057
AE003852	2555250	61.36	38.632	32.644	46.332	35.864	-0.84289	0.223901	-1.44761	0.795104	0.331551
AE003852	2555750	67.95	52.544	38.232	51.656	41.828	-0.21389	2.150177	-0.71835	1.530613	1.305462
AE003852	2556250	75.206	52.54	41.922	47.59	30.332	0.478795	2.148681	-0.23715	0.967128	-0.57571
AE003852	2556750	78.806	48.686	47.232	46.296	35.032	0.821866	1.613848	0.455773	0.787117	0.191512
AE003852	2557250	69.314	42.496	39.052	46.956	38.114	-0.08702	0.755411	-0.61438	0.877417	0.694155
AE003852	2557750	63.354	37.926	53.002	40.868	30.674	-0.65815	0.121391	1.207753	0.034213	-0.52377
AE003852	2558250	70.874	41.53	41.572	37.85	22.186	0.059785	0.619708	-0.28716	-0.38429	-1.91307
AE003852	2558750	61.918	39.944	34.02	29.466	29.76	-0.79784	0.399059	-1.27523	-1.54512	-0.67589
AE003852	2559250	62.326	35.304	43.806	42.836	30.562	-0.76002	-0.24466	0.002685	0.303455	-0.54608
AE003852	2559750	57.108	50.044	47.728	40.924	35.17	-1.26019	1.796321	0.514205	0.03795	0.206101
AE003852	2560250	75.162	37.21	36.238	34.136	36.464	0.465083	0.017495	-0.98855	-0.90209	0.416368
AE003852	2560750	82.25	43.298	38.946	38.272	36.652	1.141703	0.85992	-0.63569	-0.33093	0.44578
AE003852	2561250	67.552	36.622	46.266	54.098	35.212	-0.26502	-0.06584	0.319933	1.857409	0.20898
AE003852	2561750	68.594	36.95	39.132	50.314	28.42	-0.16656	-0.02135	-0.61351	1.332935	-0.90299
AE003852	2562250	82.278	35.768	42.64	52.868	37.922	1.140817	-0.18603	-0.1561	1.685248	0.649463
AE003852	2562750	71.278	41.442	58.45	46.682	38.532	0.087726	0.599043	1.909124	0.828486	0.747882
AE003852	2563250	63.848	36.392	39.718	32.922	32.112	-0.62397	-0.10147	-0.54012	-1.07605	-0.30325
AE003852	2563750	69.376	25.232	39.034	40.014	34.596	-0.09653	-1.6484	-0.63058	-0.09596	0.101603
AE003852	2564250	69.92	39.132	39.85	61.492	28.868	-0.0457	0.276215	-0.525	2.874266	-0.83638
AE003852	2564750	85.376	39.702	56.004	54.832	41.436	1.431131	0.354235	1.585183	1.951932	1.217429
AE003852	2565250	83.678	43.688	61.728	59.814	48.13	1.267567	0.905471	2.332215	2.64013	2.31071
AE003852	2565750	72.582	34.282	56.11	48.042	43.32	0.205296	-0.39848	1.596905	1.010612	1.522844
AE003852	2566250	71.112	30.726	55.57	42.494	37.964	0.063536	-0.89203	1.525265	0.24211	0.645694
AE003852	2566750	68.466	39.612	48.066	53.74	32.778	-0.19068	0.338001	0.543464	1.796858	-0.20366
AE003852	2567250	74.816	41.818	41.84	43.56	46.77	0.415364	0.642655	-0.27131	0.387574	2.083003
AE003852	2567750	71.064	46.556	54.496	64.498	52.09	0.055382	1.298064	1.381702	3.283094	2.951607
AE003852	2568250	65.174	47.678	49.738	56.382	50.142	-0.50905	1.452552	0.758789	2.15934	2.631738
AE003852	2568750	59.286	37.692	47.63	42.326	38.666	-1.07329	0.068258	0.482219	0.213857	0.753838
AE003852	2569250	64.826	39.656	47.038	52.99	34.59	-0.54471	0.339388	0.403782	1.688092	0.085996

AE003852	2569750	71.51	34.444	45.326	44.992	31.736	0.09328	-0.38357	0.178966	0.580662	-0.38202
AE003852	2570250	69.122	39.882	40.096	37.226	40.052	-0.13627	0.368812	-0.50563	-0.49467	0.97649
AE003852	2570750	61.73	36.554	28.464	42.364	45.188	-0.84433	-0.09315	-2.02694	0.215105	1.815005
AE003852	2571250	68.404	32.43	20.042	44.75	31.208	-0.2073	-0.66539	-3.12872	0.544177	-0.47235
AE003852	2571750	68.942	29.88	36.43	46.784	22.756	-0.15704	-1.01958	-0.98796	0.824554	-1.85576
AE003852	2572250	67.296	29.18	41.498	35.968	22.322	-0.31563	-1.11749	-0.32666	-0.67271	-1.92806
AE003852	2572750	66.87	38.97	42.908	53.286	24.768	-0.35756	0.237765	-0.14345	1.722024	-1.52942
AE003852	2573250	67.546	46.93	45.858	40.942	38.132	-0.2941	1.339516	0.241038	0.013376	0.654551
AE003852	2573750	55.65	40.626	51.662	23	41.794	-1.43288	0.465286	0.998526	-2.46969	1.252037
AE003852	2574250	60.204	33.16	40.29	25.834	39.678	-0.99858	-0.56991	-0.4888	-2.07864	0.904696
AE003852	2574750	78.188	38.902	55.388	46.426	37.58	0.72	0.224578	1.483365	0.769015	0.560299
AE003852	2575250	83.738	36.828	45.888	49.104	35.262	1.249545	-0.06367	0.240697	1.138482	0.179927
AE003852	2575750	76.558	41.174	42.96	41.7	36.038	0.561751	0.537433	-0.14304	0.113224	0.30549
AE003852	2576250	70.904	48.654	36.804	37.662	42.456	0.019886	1.57269	-0.94867	-0.44639	1.35364
AE003852	2576750	63.176	43.46	37.054	28.044	33.758	-0.72031	0.852228	-0.91706	-1.77793	-0.07
AE003852	2577250	55.76	46.784	46.454	28.648	33.98	-1.43067	1.311757	0.310409	-1.69537	-0.03503
AE003852	2577750	68.482	37.248	44.752	32.41	34.124	-0.21529	-0.0102	0.0869	-1.17595	-0.01281
AE003852	2578250	56.91	23.79	54.946	42.712	35.13	-1.32308	-1.87547	1.41814	0.24821	0.150365
AE003852	2578750	62.584	39.974	59.24	51.054	30.784	-0.78168	0.365548	1.978279	1.401224	-0.56163
AE003852	2579250	68.588	47.356	50.994	48.998	38.47	-0.20872	1.387229	0.899502	1.115799	0.693866
AE003852	2579750	63.57	47.492	35.052	37.594	37.256	-0.68976	1.405128	-1.1851	-0.46281	0.494022
AE003852	2580250	52.27	41.462	43.522	37.124	23.628	-1.77154	0.568855	-0.07918	-0.52883	-1.73578
AE003852	2580750	59.186	43.122	42.672	35.196	35.678	-1.11137	0.797872	-0.19134	-0.79655	0.233326
AE003852	2581250	59.366	38.586	29.22	35.266	37.732	-1.09534	0.168562	-1.95051	-0.78787	0.567869
AE003852	2581750	64.996	46.078	45.608	42.324	39.654	-0.55815	1.205481	0.190251	0.187519	0.880828
AE003852	2582250	74.084	57.93	48.068	45.55	32.718	0.309725	2.846387	0.510696	0.632795	-0.25469
AE003852	2582750	84.278	61.614	44.57	42.968	37.52	1.283364	3.355787	0.052459	0.274604	0.529214
AE003852	2583250	91.198	47.23	51.896	36.076	30.922	1.943918	1.362241	1.008865	-0.67982	-0.55103
AE003852	2583750	74.378	45	53.728	35.444	29.888	0.334275	1.052379	1.247233	-0.76826	-0.72144
AE003852	2584250	64.434	31.092	46.83	42.88	35.592	-0.61783	-0.87523	0.344633	0.259423	0.209956
AE003852	2584750	75.128	37.34	36.886	51.138	38.736	0.40362	-0.01064	-0.95606	1.400816	0.722737
AE003852	2585250	88.364	32.508	43.864	53.95	43.608	1.668158	-0.68095	-0.04514	1.78882	1.518083
AE003852	2585750	85.564	40.504	43.648	54.792	34.768	1.399213	0.425786	-0.07443	1.904299	0.071226
AE003852	2586250	76.946	38.676	37.532	41.746	29.584	0.573907	0.171613	-0.87483	0.098538	-0.7778
AE003852	2586750	76.588	32.912	58.528	35.728	36.17	0.538484	-0.62781	1.868177	-0.73498	0.297824
AE003852	2587250	75.988	39.11	39.502	36.208	39.468	0.47992	0.229851	-0.61949	-0.66958	0.835787
AE003852	2587750	86.852	41.95	56.696	43.526	42.088	1.517629	0.622332	1.626612	0.341772	1.262883

AE003852	2588250	73.094	36.828	55.74	41.796	34.956	0.200798	-0.08816	1.500602	0.101445	0.09532
AE003852	2588750	63.55	37.016	39.544	31.308	41.496	-0.71306	-0.06305	-0.6172	-1.35045	1.163419
AE003852	2589250	59.686	46.73	45.766	34.81	31.676	-1.08375	1.281677	0.194919	-0.86699	-0.44369
AE003852	2589750	70.282	47.698	41.008	39.678	40.866	-0.07167	1.414831	-0.42799	-0.19456	1.057742
AE003852	2590250	79.16	44.946	41.456	45.778	35.862	0.776122	1.032657	-0.37051	0.648298	0.238152
AE003852	2590750	79.92	39.438	41.43	43.594	33.846	0.847611	0.268697	-0.37497	0.345165	-0.09284
AE003852	2591250	63.586	31.4	37.774	36.828	28.778	-0.71556	-0.84574	-0.85386	-0.59183	-0.92289
AE003852	2591750	52.156	35.722	42.954	48.904	30.84	-1.80977	-0.24796	-0.17792	1.077736	-0.58704
AE003852	2592250	52.16	38.312	44.454	55.546	29.086	-1.81057	0.109888	0.017055	1.995575	-0.87519
AE003852	2592750	55.954	37.908	54.514	35.97	37.128	-1.44895	0.05298	1.330781	-0.71353	0.438522
AE003852	2593250	66.478	26.406	49.572	38.798	38.91	-0.44375	-1.54132	0.683821	-0.32332	0.728587
AE003852	2593750	70.286	38.284	46.444	38.656	28.094	-0.08079	0.103184	0.273941	-0.34396	-1.04139
AE003852	2594250	48.024	29.5	41.536	45.818	35.174	-2.21084	-1.1146	-0.36858	0.645812	0.115012
AE003852	2594750	46.446	20.97	33.248	52.682	33.398	-2.36293	-2.29719	-1.45284	1.594363	-0.17673
AE003852	2595250	42.658	22.71	40.078	36.94	23	-2.72635	-2.05709	-0.56126	-0.58436	-1.87835
AE003852	2595750	55.106	26.628	42.276	37.05	31.778	-1.53717	-1.51528	-0.27506	-0.57014	-0.44429
AE003852	2596250	69.832	35.254	37.778	43.716	40.638	-0.13015	-0.32127	-0.86399	0.351016	1.003174
AE003852	2596750	57.95	35.596	40.712	51.134	48.978	-1.26758	-0.27483	-0.4816	1.376206	2.365612
AE003852	2597250	59.928	27.834	39.538	43.142	27.014	-1.07962	-1.35104	-0.6361	0.269605	-1.2273
AE003852	2597750	76.476	33.138	42.008	31.328	31.452	0.501638	-0.61722	-0.31435	-1.36572	-0.50292
AE003852	2598250	87.072	36.754	38.848	42.066	40.802	1.513719	-0.11724	-0.72841	0.118749	1.024673
AE003852	2598750	75.156	33.2	41.718	42.694	33.536	0.373034	-0.61052	-0.35438	0.204623	-0.1648
AE003852	2599250	68.122	33.39	42.356	36.9	28.584	-0.3008	-0.58514	-0.27206	-0.59791	-0.97589
AE003852	2599750	57.772	31.026	39.466	38.026	30.9	-1.29173	-0.91356	-0.65083	-0.44314	-0.5985
AE003852	2600250	57.744	24.348	38.352	49.766	31.792	-1.2956	-1.8396	-0.79749	1.179943	-0.45397
AE003852	2600750	59.562	22.546	41.592	43.774	29.132	-1.12293	-2.09017	-0.37511	0.350018	-0.89027
AE003852	2601250	67.25	37.178	41.166	40.676	39.214	-0.38894	-0.06415	-0.43185	-0.07956	0.757024
AE003852	2601750	67.33	43.106	45.792	45.874	35.398	-0.38248	0.756105	0.171681	0.638524	0.131697
AE003852	2602250	75.512	43.952	47.268	47.222	36.256	0.398761	0.872359	0.363521	0.824001	0.270669
AE003852	2602750	62.088	38.814	40.694	49.764	38.192	-0.88613	0.159655	-0.49673	1.174654	0.585916
AE003852	2603250	70.822	40.55	34.68	41.216	39.954	-0.05211	0.3992	-1.2838	-0.00886	0.872711
AE003852	2603750	70.732	38.318	38.052	44.762	36.362	-0.0619	0.089061	-0.84416	0.480682	0.284013
AE003852	2604250	73.648	31.65	40.4	43.104	44.174	0.215759	-0.83559	-0.53835	0.250315	1.560112
AE003852	2604750	62.642	26.806	41.634	45.668	34.25	-0.8379	-1.50757	-0.37814	0.604012	-0.064
AE003852	2605250	65.898	34.488	31.5	33.46	28.548	-0.52773	-0.44433	-1.70367	-1.08582	-0.99773
AE003852	2605750	69.054	34.202	40.28	35.884	34.7	-0.22712	-0.48489	-0.55723	-0.75149	0.006922
AE003852	2606250	68.456	38.78	40.5	38.146	34.3	-0.28549	0.148353	-0.52955	-0.43957	-0.05982

AE003852	2606750	66.446	44.748	40.544	42.422	36.872	-0.47889	0.974153	-0.52486	0.150957	0.359431
AE003852	2607250	67.182	32.042	50.444	36.124	41.912	-0.4097	-0.78694	0.767954	-0.7213	1.182249
AE003852	2607750	58.086	31.016	44.32	29.51	37.252	-1.28071	-0.93001	-0.03349	-1.63727	0.41891
AE003852	2608250	73.856	29.944	46.792	37.252	31.398	0.226146	-1.07946	0.288525	-0.56726	-0.53967
AE003852	2608750	71.816	32.78	52.342	32.46	30.856	0.029878	-0.68753	1.012817	-1.23118	-0.62963
AE003852	2609250	83.984	27.4	49.024	52.844	36.226	1.192285	-1.43376	0.578105	1.587704	0.247149
AE003852	2609750	73.18	27.944	53.692	47.23	36.202	0.157938	-1.35934	1.187124	0.810072	0.241895
AE003852	2610250	77.188	42.136	51.09	33.784	32.224	0.540025	0.605723	0.84599	-1.05102	-0.40992
AE003852	2610750	73.826	36.352	42.444	29.256	36.338	0.217337	-0.19647	-0.28506	-1.67842	0.261474
AE003852	2611250	79.118	46.2	40.294	38.116	41.514	0.72221	1.166823	-0.56712	-0.45375	1.106531
AE003852	2611750	81.332	48.19	34.18	54.448	42.334	0.932741	1.441554	-1.36726	1.804587	1.239288
AE003852	2612250	65.848	36.194	37.522	54.714	32.91	-0.54914	-0.22118	-0.93154	1.840382	-0.30307
AE003852	2612750	57.848	35.156	30.992	51.232	35.696	-1.31535	-0.36592	-1.78605	1.357687	0.151175
AE003852	2613250	71.43	45.274	46.596	44.728	41.786	-0.01773	1.034778	0.252254	0.456933	1.14569
AE003852	2613750	60.664	31.106	51.43	30.848	39.79	-1.04844	-0.92885	0.882968	-1.4642	0.817972
AE003852	2614250	71.534	35.414	47.992	31.51	36.458	-0.01016	-0.333	0.432573	-1.37362	0.27179
AE003852	2614750	77.018	39.282	51.252	44.2	42.882	0.513076	0.201886	0.857574	0.380884	1.32092
AE003852	2615250	73.612	35.56	52.536	36.97	38.28	0.186181	-0.31466	1.024321	-0.6203	0.567066
AE003852	2615750	63.668	47.322	33.834	32.12	30.924	-0.76593	1.313777	-1.421	-1.29225	-0.63713
AE003852	2616250	72.526	47.032	39.432	26.192	34.874	0.079953	1.272662	-0.69044	-2.11332	0.007454
AE003852	2616750	70.604	35.87	34.304	31.002	30.912	-0.10503	-0.27454	-1.36171	-1.44891	-0.64175
AE003852	2617250	84.592	43.59	41.868	32.874	36.164	1.231419	0.793962	-0.3742	-1.19095	0.215737
AE003852	2617750	72.012	46.572	46.308	31.04	32.07	0.027237	1.206114	0.205025	-1.44566	-0.45505
AE003852	2618250	79.238	40.13	48.304	28.2	35.938	0.717053	0.312767	0.464827	-1.83954	0.176122
AE003852	2618750	88.528	43.014	50.234	36.122	34.122	1.604245	0.711344	0.716003	-0.74463	-0.12216
AE003852	2619250	79.756	39.96	46.13	57.838	28.918	0.764212	0.287334	0.178565	2.258517	-0.97446
AE003852	2619750	76.168	50.96	44.186	29.836	23.446	0.419913	1.810213	-0.07657	-1.61623	-1.87057
AE003852	2620250	79.45	45.364	44.376	36.02	33.782	0.732574	1.034062	-0.05281	-0.76175	-0.18175
AE003852	2620750	80.188	37.982	39.686	42.776	35.994	0.801959	0.010498	-0.66683	0.171862	0.178631
AE003852	2621250	75.498	29.168	47.898	37.586	40.486	0.352278	-1.21144	0.405372	-0.54712	0.911839
AE003852	2621750	60.846	32.986	59.614	40.142	37.982	-1.05004	-0.68348	1.935529	-0.19453	0.501052
AE003852	2622250	72.598	34.14	49.79	42.972	44.62	0.072583	-0.52456	0.650516	0.195969	1.585176
AE003852	2622750	81.924	32.284	37.826	45.262	40.62	0.963217	-0.78261	-0.91419	0.511761	0.929762
AE003852	2623250	65.798	34.134	54.814	39.824	43.022	-0.58006	-0.52727	1.304997	-0.24152	1.32121
AE003852	2623750	77.444	28.704	48	51.412	34.93	0.53243	-1.28043	0.413375	1.360535	-0.00333
AE003852	2624250	80.358	29.738	37.23	46.204	31.71	0.8099	-1.13813	-0.99528	0.639068	-0.5312
AE003852	2624750	67.214	35.36	33.42	35.928	36.268	-0.44822	-0.36026	-1.49429	-0.7835	0.212799

AE003852	2625250	76.692	37.172	28.558	39.512	41.198	0.456954	-0.11019	-2.13079	-0.2887	1.017629
AE003852	2625750	68.218	60.402	41.522	45.062	46.33	-0.35458	3.106906	-0.43753	0.478079	1.855491
AE003852	2626250	61.126	32.372	37.122	38.744	41.172	-1.03396	-0.77701	-1.01365	-0.39694	1.010718
AE003852	2626750	79.648	30.766	46.866	49.398	40.948	0.736065	-1.00043	0.258774	1.075908	0.97276
AE003852	2627250	85.234	33.916	47.168	47.606	40.756	1.269052	-0.565	0.297179	0.827004	0.940034
AE003852	2627750	75.522	45.778	52.266	36.912	37.638	0.33913	1.077288	0.962397	-0.65339	0.428845
AE003852	2628250	86.09	48.752	38.066	51.48	38.73	1.348533	1.488332	-0.89454	1.360921	0.606081
AE003852	2628750	67.844	37.23	34.47	45.088	34.432	-0.39747	-0.10874	-1.36558	0.475661	-0.09806
AE003852	2629250	64.846	44.02	53.65	39.492	29.64	-0.68535	0.830929	1.140082	-0.29948	-0.88299
AE003852	2629750	66.198	52.114	44.06	28.834	24.882	-0.55725	1.951243	-0.11435	-1.77489	-1.66235
AE003852	2630250	63.03	51.936	34.76	37.222	23.816	-0.86139	1.925643	-1.33088	-0.61551	-1.83799
AE003852	2630750	60.462	43.22	39.028	36.554	22.666	-1.10815	0.717281	-0.77414	-0.70893	-2.02737
AE003852	2631250	56.578	49.074	48.662	33.608	32.24	-1.48075	1.527289	0.483914	-1.11747	-0.46315
AE003852	2631750	62.946	53.632	41.636	38.288	34.886	-0.87299	2.157763	-0.43542	-0.47105	-0.0318
AE003852	2632250	54.942	44.838	43.66	40.432	29.282	-1.63958	0.938596	-0.17195	-0.17546	-0.9495
AE003852	2632750	62.146	43.562	49.956	40.166	27.7	-0.95186	0.760891	0.649836	-0.21326	-1.20952
AE003852	2633250	73.674	38.332	35.55	41.802	37.764	0.149342	0.035442	-1.23402	0.012061	0.434824
AE003852	2633750	67.704	28.628	40.67	42.386	38.462	-0.42274	-1.30979	-0.56593	0.091848	0.547632
AE003852	2634250	63.966	29.7	40.502	43.832	41.824	-0.78139	-1.16223	-0.58895	0.290882	1.096061
AE003852	2634750	61.22	30.98	38.99	34.02	34.896	-1.04517	-0.98585	-0.78763	-1.06749	-0.03814
AE003852	2635250	53.006	29.828	50.472	30.376	35.464	-1.83184	-1.14638	0.711948	-1.5726	0.053406
AE003852	2635750	67.012	26.094	45.304	44.17	38.734	-0.49367	-1.66459	0.03545	0.334633	0.586791
AE003852	2636250	73.372	34.638	50.96	45.438	37.618	0.113334	-0.48194	0.773596	0.509044	0.402972
AE003852	2636750	82.664	31.342	38.12	39.666	33.538	1.000717	-0.93947	-0.90559	-0.29045	-0.26552
AE003852	2637250	78.266	38.008	36.482	37.592	36.418	0.578959	-0.01698	-1.12074	-0.57836	0.204087
AE003852	2637750	70.096	45.4	50.526	39.834	33.854	-0.20351	1.006091	0.713678	-0.26921	-0.21651
AE003852	2638250	62.006	61.316	58.854	48.428	43.36	-0.97832	3.20998	1.801041	0.918665	1.336592
AE003852	2638750	70.978	51.716	57.542	49.758	46.472	-0.12154	1.879158	1.628503	1.101652	1.844141
AE003852	2639250	74.268	36.512	50.112	45.212	40.59	0.191889	-0.22798	0.656374	0.471765	0.880979
AE003852	2639750	72.89	43.774	50.522	40.746	37.682	0.058926	0.777076	0.708893	-0.14706	0.40413
AE003852	2640250	74.002	34.158	40.116	34.416	35.872	0.164076	-0.55596	-0.65218	-1.02374	0.106827
AE003852	2640750	75.228	32.034	53.986	37.572	39.94	0.280127	-0.85114	1.15949	-0.58815	0.770702
AE003852	2641250	76.81	35.14	54.146	41.092	44.52	0.430222	-0.42181	1.179336	-0.1022	1.518299
AE003852	2641750	75.91	39.272	44.652	54.172	39.754	0.342969	0.149651	-0.06255	1.706262	0.737628
AE003852	2642250	67.498	51.154	53.59	38.776	51.872	-0.46264	1.794713	1.104538	-0.42459	2.717848
AE003852	2642750	63.008	42.072	59.77	29.618	44.446	-0.89319	0.535649	1.911168	-1.6925	1.50221
AE003852	2643250	87.558	36.634	58.328	36.396	39.026	1.453274	-0.21861	1.721641	-0.75584	0.614595

AE003852	2643750	81.832	45.342	52.134	24.022	44.762	0.904523	0.986756	0.91105	-2.46864	1.551224
AE003852	2644250	73.504	46.376	59.372	42.628	38.006	0.106949	1.129054	1.855955	0.104276	0.445144
AE003852	2644750	74.482	42.264	43.076	52.216	33.47	0.199285	0.55848	-0.27492	1.429659	-0.29792
AE003852	2645250	87.508	53.896	51.05	53.648	38.934	1.443741	2.16891	0.76618	1.626757	0.594233
AE003852	2645750	77.022	48.228	50.53	53.87	52.486	0.439803	1.382785	0.697153	1.656465	2.808943
AE003852	2646250	78.746	38.86	43.276	36.72	36.248	0.603477	0.084102	-0.25197	-0.71704	0.152356
AE003852	2646750	76.222	39.56	33.556	33.488	33.402	0.360925	0.18013	-1.52339	-1.16515	-0.31436
AE003852	2647250	70.688	45.826	28.286	36.92	30.574	-0.16947	1.047213	-2.21322	-0.69137	-0.77812
AE003852	2647750	78.688	41.788	40.77	30.156	36.25	0.594366	0.48689	-0.58269	-1.62809	0.148694
AE003852	2648250	75.804	36.196	39.848	27.448	39.576	0.317389	-0.28871	-0.70426	-2.00372	0.691236
AE003852	2648750	88.056	41.54	50.256	35.052	36.656	1.487829	0.450652	0.65495	-0.9528	0.212424
AE003852	2649250	83.42	40.77	47.348	40.942	44.388	1.043312	0.343042	0.273824	-0.13899	1.475441
AE003852	2649750	86.57	39.56	29.2	51.162	29.21	1.34335	0.17448	-2.0991	1.273827	-1.00781
AE003852	2650250	80.084	40.292	41.714	42.378	33.6	0.721922	0.274942	-0.46464	0.057663	-0.29129
AE003852	2650750	75.272	46.924	48.248	55.892	38.046	0.260575	1.192726	0.388253	1.926161	0.4344
AE003852	2651250	77.808	50.346	57.816	47.142	48.226	0.501898	1.665831	1.637677	0.7147	2.097717
AE003852	2651750	93.504	39.188	47.03	54.09	40.808	2.001679	0.119181	0.226935	1.674871	0.883387
AE003852	2652250	69.054	37.1	48.478	46.7	34.042	-0.3376	-0.17101	0.415116	0.65155	-0.22433
AE003852	2652750	64.298	48.032	52.228	36.834	31.356	-0.79359	1.34245	0.904157	-0.7143	-0.66488
AE003852	2653250	71.942	43.53	63.738	34.152	35.808	-0.0638	0.71785	2.407392	-1.08632	0.061792
AE003852	2653750	71.204	47.67	47.256	41.626	32.268	-0.13557	1.290419	0.252211	-0.05338	-0.5184
AE003852	2654250	79.042	45.912	48.19	39.792	36.35	0.612774	1.045943	0.373214	-0.3081	0.147761
AE003852	2654750	65.304	40.86	51.814	30.902	31.7	-0.70214	0.345152	0.845788	-1.53893	-0.61394
AE003852	2655250	66.118	37.388	42.664	40.282	34.378	-0.62549	-0.13676	-0.35114	-0.24232	-0.17736
AE003852	2655750	73.632	39.098	42.15	43.79	37.542	0.091866	0.09918	-0.41938	0.24197	0.33869
AE003852	2656250	69.886	35.358	47.404	54.598	39.996	-0.26754	-0.41986	0.266226	1.736125	0.738641
AE003852	2656750	66.912	29.662	38.966	37.82	40.46	-0.55313	-1.20986	-0.83764	-0.58591	0.813186
AE003852	2657250	75.998	36.136	31.384	33.158	30.09	0.314556	-0.31397	-1.82964	-1.23185	-0.88386
AE003852	2657750	66.934	34.23	41.532	36.408	25.812	-0.5534	-0.57895	-0.50441	-0.78325	-1.58473
AE003852	2658250	65.504	33.242	41.076	40.932	27.688	-0.69133	-0.71676	-0.56507	-0.15841	-1.2793
AE003852	2658750	64.06	38.752	42.402	57.598	30.75	-0.83061	0.045599	-0.39284	2.146128	-0.77992
AE003852	2659250	98.648	33.4	56.694	46.936	43.896	2.475767	-0.69675	1.47399	0.670165	1.368397
AE003852	2659750	57.306	30.962	49.754	26.728	29.042	-1.47885	-1.03543	0.565901	-2.12637	-1.06188
AE003852	2660250	59.48	34.54	35.198	41.574	26.254	-1.27215	-0.54071	-1.33756	-0.07361	-1.5191
AE003852	2660750	59.74	43.298	40.444	53.566	33.592	-1.24847	0.671586	-0.653	1.584339	-0.32052
AE003852	2661250	66.298	35.338	39.284	47.956	43.914	-0.62253	-0.43205	-0.80567	0.80726	1.366022
AE003852	2661750	72.806	32.238	37.4	42.05	32.038	-0.00138	-0.86243	-1.05297	-0.01077	-0.57729

AE003852	2662250	79.226	31.896	41.332	43.118	32.414	0.611362	-0.91075	-0.54014	0.135976	-0.51713
AE003852	2662750	75.71	32.286	41.978	41.688	39.006	0.273948	-0.85766	-0.45678	-0.06285	0.55947
AE003852	2663250	72.958	25.82	40.112	36.458	25.99	0.009593	-1.75434	-0.70172	-0.78736	-1.57025
AE003852	2663750	80.102	34.85	41.246	39.196	29.338	0.691568	-0.50436	-0.55458	-0.40959	-1.02411
AE003852	2664250	87.234	50.928	42.628	48.462	45.872	1.372395	1.721972	-0.37502	0.871245	1.678219
AE003852	2664750	83.744	44.398	37.214	40.268	32.212	1.037467	0.816435	-1.08367	-0.2633	-0.55681
AE003852	2665250	72.228	29.832	33.95	44.198	34.474	-0.06497	-1.20232	-1.51132	0.279366	-0.18826
AE003852	2665750	56.442	27.158	34.71	43.374	36.226	-1.57573	-1.57369	-1.41306	0.164373	0.096904
AE003852	2666250	57.584	31.55	40.324	38.126	39.556	-1.46771	-0.96621	-0.6804	-0.56263	0.6401
AE003852	2666750	78.618	40.778	45.62	34.93	45.018	0.542528	0.311192	0.010692	-1.00576	1.531923
AE003852	2667250	91.414	38.09	44.002	40.456	32.432	1.76499	-0.06212	-0.20184	-0.2423	-0.52748
AE003852	2667750	87.682	37.86	42.196	36.72	28.71	1.40692	-0.09492	-0.43894	-0.76014	-1.13744
AE003852	2668250	82.398	34.342	52.448	33.3	37.344	0.900436	-0.58321	0.899881	-1.23426	0.273073
AE003852	2668750	76	31.944	46.036	36.084	34.662	0.287424	-0.91634	0.060799	-0.85013	-0.16682
AE003852	2669250	81.256	33.824	46.722	40.712	35.538	0.788854	-0.65685	0.14939	-0.2109	-0.02491
AE003852	2669750	65.664	46.04	42.426	43.888	46.408	-0.70336	1.034483	-0.41314	0.22746	1.75124
AE003852	2670250	57.834	43.546	43.602	43.232	46.854	-1.45331	0.688049	-0.26051	0.135708	1.822841
AE003852	2670750	73.804	36.256	63.24	42.118	34.926	0.072674	-0.32277	2.305014	-0.0194	-0.12897
AE003852	2671250	77.84	38.152	39.286	50.772	38.784	0.457438	-0.06106	-0.82672	1.176772	0.500566
AE003852	2671750	69.012	50.286	39.392	40.358	43.086	-0.38795	1.618911	-0.81393	-0.26488	1.202704
AE003852	2672250	73.944	35.312	44.514	38.14	37.586	0.082497	-0.45637	-0.14558	-0.57272	0.302008
AE003852	2672750	79.964	37.176	46.25	41.074	35.988	0.656987	-0.19909	0.080244	-0.16784	0.039371
AE003852	2673250	73.59	43.236	37.616	42.974	36.484	0.046269	0.639455	-1.04924	0.094003	0.119148
AE003852	2673750	75.598	48.194	46.28	37.508	38.37	0.237101	1.325341	0.082034	-0.66316	0.42622
AE003852	2674250	86.402	48.18	49.872	39.526	38.078	1.269073	1.32246	0.550425	-0.38499	0.377142
AE003852	2674750	86.95	50.188	56.646	53.756	39.096	1.320289	1.599685	1.434688	1.582557	0.542277
AE003852	2675250	77.028	41.88	48.194	42.114	26.936	0.370285	0.447843	0.328988	-0.02898	-1.44747
AE003852	2675750	69.39	37.86	36.004	42.404	31.278	-0.36131	-0.10999	-1.26525	0.010138	-0.73879
AE003852	2676250	52.646	27.404	42.712	36.952	25.856	-1.96368	-1.55939	-0.38961	-0.74508	-1.62673
AE003852	2676750	40.038	15.752	23.214	16.756	7.196	-3.17054	-3.17447	-2.93897	-3.53996	-4.67937
AE003852	2677250	67.122	28.832	38.888	21.546	14.798	-0.58175	-1.36345	-0.89152	-2.87832	-3.43761
AE003852	2677750	178.904	92.6	133.096	109.584	80.914	10.10649	7.469335	11.41993	9.299681	7.372431
AE003852	2678250	246.338	123.234	163.184	153.24	112.314	16.55385	11.7121	15.35122	15.33797	12.50567
AE003852	2678750	168.378	102.33	115.746	135.946	89.626	9.097541	8.815341	9.15024	12.94454	8.794369
AE003852	2679250	58.082	38.912	34.412	48.636	19.754	-1.45098	0.029155	-1.48077	0.865244	-2.63252
AE003852	2679750	69.548	28.168	24.606	56.656	30.958	-0.3557	-1.46014	-2.76344	1.973713	-0.80175
AE003852	2680250	47.412	20.514	19	32.334	34.258	-2.4737	-2.52139	-3.49718	-1.39195	-0.26346

AE003852	2680750	85.832	26.792	38.048	54.59	47.54	1.199121	-1.65264	-1.00876	1.685902	1.907095
AE003852	2681250	105.874	58.304	56.074	64.878	45.37	3.1145	2.711746	1.346079	3.108122	1.550924
AE003852	2681750	80.166	30.988	39.42	48.374	31.654	0.65492	-1.07326	-0.83158	0.823988	-0.69326
AE003852	2682250	95.178	38.87	33.086	42.296	28.606	2.089292	0.017687	-1.66047	-0.01783	-1.193
AE003852	2682750	99.81	49.594	38.96	37.226	36.756	2.53105	1.502332	-0.89383	-0.72021	0.138364
AE003852	2683250	72.694	50.474	45.102	33.922	34.074	-0.06317	1.623296	-0.09217	-1.17828	-0.30153
AE003852	2683750	57.898	35.804	40.46	40.468	40.466	-1.47927	-0.40987	-0.69992	-0.27372	0.742368
AE003852	2684250	60.842	26.04	43.258	45.464	44.634	-1.19893	-1.76341	-0.3353	0.416412	1.422595
AE003852	2684750	71.024	32.142	39.734	34.796	37.882	-0.22643	-0.91905	-0.79694	-1.06038	0.31717
AE003852	2685250	73.424	41.76	41.492	37.362	28.432	0.001883	0.412386	-0.56824	-0.70641	-1.22944
AE003852	2685750	77.428	43.552	48.26	38.16	26.622	0.383588	0.659689	0.315239	-0.59702	-1.52674
AE003852	2686250	91.452	37.674	50.498	33.08	43.238	1.72348	-0.15553	0.606669	-1.30078	1.189001
AE003852	2686750	66.226	48.09	35.964	46.246	38.732	-0.69001	1.286451	-1.29392	0.51958	0.450845
AE003852	2687250	72.05	48.93	46.014	55.096	44.022	-0.13426	1.401874	0.018502	1.74287	1.314543
AE003852	2687750	68.4	48.764	44.884	45.974	40.784	-0.48449	1.377936	-0.13025	0.479948	0.783731
AE003852	2688250	60.036	43.262	44.708	51.278	33.756	-1.28551	0.614807	-0.15432	1.212691	-0.36683
AE003852	2688750	57.33	38.76	44.018	47.044	43.962	-1.54546	-0.00979	-0.24556	0.625965	1.300743
AE003852	2689250	73.838	46.742	50.58	49.246	55.344	0.031969	1.095005	0.610993	0.929583	3.160612
AE003852	2689750	86.078	51.122	53.194	49.604	50.198	1.201262	1.700821	0.951565	0.978105	2.317802
AE003852	2690250	82.374	37.002	51.302	44.204	37.574	0.845869	-0.25615	0.703224	0.230077	0.25218
AE003852	2690750	99.46	38.07	46.016	43.572	38.766	2.478573	-0.10914	0.011305	0.141645	0.445768
AE003852	2691250	81.342	47.448	55.274	41.066	28.874	0.744806	1.18904	1.220214	-0.20603	-1.17311
AE003852	2691750	52.188	38.184	68.246	32.2	32.634	-2.04431	-0.09524	2.914524	-1.43354	-0.5596
AE003852	2692250	71.072	29.256	53.83	47.142	32.878	-0.23966	-1.33297	1.029359	0.632505	-0.52103
AE003852	2692750	82.074	44.174	49.198	59.07	36.754	0.811241	0.732671	0.422914	2.281599	0.111445
AE003852	2693250	78.162	44.054	44.994	49.518	37.098	0.435958	0.715105	-0.12759	0.959192	0.166366
AE003852	2693750	84.358	37.472	48.682	48.534	42.478	1.027278	-0.19764	0.353345	0.822065	1.044781
AE003852	2694250	85.904	31.354	51.522	50.664	41.972	1.17393	-1.0461	0.723453	1.115722	0.96071
AE003852	2694750	74.406	38.824	57.424	47.346	37.724	0.073217	-0.01223	1.49375	0.655714	0.264742
AE003852	2695250	87.708	44.92	57.52	40.108	42.828	1.344066	0.831305	1.505231	-0.34658	1.098025
AE003852	2695750	87.388	41.68	46.666	41.402	43.87	1.312278	0.381529	0.085602	-0.16857	1.267084
AE003852	2696250	74.072	47.43	47.354	45.438	40.638	0.037714	1.17713	0.174455	0.388758	0.737254
AE003852	2696750	80.41	47.682	47.346	36.692	38.152	0.642613	1.211098	0.172344	-0.82215	0.32941
AE003852	2697250	57.58	41.676	53.296	35.4	24.944	-1.54175	0.37815	0.948914	-1.00188	-1.83171
AE003852	2697750	78.306	40.326	46.784	51.342	27.73	0.439037	0.190194	0.096762	1.202499	-1.37747
AE003852	2698250	83.69	31.72	42.706	52.234	29.978	0.952707	-1.00293	-0.43728	1.324894	-1.0112
AE003852	2698750	72.232	43.914	51.87	48.324	30.172	-0.14418	0.685353	0.759346	0.78299	-0.98081

AE003852	2699250	74.118	41.49	54.344	43.246	37.048	0.034985	0.348617	1.08162	0.079507	0.142235
AE003852	2699750	70.698	31.994	41.596	42.204	33.21	-0.29325	-0.9678	-0.58555	-0.06564	-0.48669
AE003852	2700250	81.138	30.402	45.884	39.834	38.336	0.703914	-1.18928	-0.02619	-0.39451	0.350191
AE003852	2700750	74.64	31.526	39.688	47.634	36.16	0.081338	-1.03451	-0.83704	0.683527	-0.00696
AE003852	2701250	69.594	44.286	59.438	42.452	43.022	-0.40239	0.732178	1.743119	-0.03434	1.113793
AE003852	2701750	66.378	45.052	48.482	48.434	38.846	-0.71111	0.837349	0.310159	0.792193	0.429598
AE003852	2702250	63.694	40.722	39.134	49.316	47.798	-0.96896	0.236576	-0.91264	0.913205	1.892111
AE003852	2702750	71.752	36.742	52.018	32.148	36.184	-0.19959	-0.31571	0.770165	-1.46279	-0.00835
AE003852	2703250	76.492	51.566	64.14	32.992	37.294	0.2525	1.736903	2.353385	-1.34703	0.171824
AE003852	2703750	94.788	55.808	49.456	40.152	35.634	2.000913	2.323603	0.433194	-0.35753	-0.10095
AE003852	2704250	89.082	57.412	34.142	50.324	41.872	1.454075	2.544862	-1.56934	1.04864	0.917765
AE003852	2704750	82.848	56.604	38.104	57.876	32.692	0.856745	2.431988	-1.05259	2.092367	-0.58469
AE003852	2705250	80.998	46.254	40.73	42.402	33.39	0.678646	0.99727	-0.71045	-0.04928	-0.47188
AE003852	2705750	68.964	27.06	46.248	45.722	32.396	-0.47332	-1.6626	0.009662	0.409001	-0.63575
AE003852	2706250	59.762	28.44	48.484	50.386	29.528	-1.35448	-1.47237	0.300831	1.053207	-1.10606
AE003852	2706750	68.93	32.498	57.576	37.42	28.604	-0.47895	-0.91116	1.488045	-0.74149	-1.25848
AE003852	2707250	94.976	32.924	52.246	40.926	39.994	2.010575	-0.85309	0.790375	-0.25748	0.602695
AE003852	2707750	74.354	46.068	39.418	47.574	33.596	0.037357	0.966795	-0.88725	0.661193	-0.44484
AE003852	2708250	70.148	38.018	43.242	40.754	34.214	-0.36604	-0.14931	-0.38853	-0.28327	-0.34512
AE003852	2708750	66.446	29.982	38.408	37.566	32.926	-0.72124	-1.26347	-1.02138	-0.7253	-0.55706
AE003852	2709250	83.89	48.278	43.33	51.426	38.888	0.945697	1.270119	-0.37916	1.191065	0.416522
AE003852	2709750	79	50.484	52.12	47.31	41.726	0.47689	1.574773	0.76858	0.620663	0.879266
AE003852	2710250	73.808	63.772	60.476	39.006	33.31	-0.0208	3.414607	1.859602	-0.5291	-0.49826
AE003852	2710750	93.21	42.198	62.692	43.972	36.116	1.833381	0.425037	2.148157	0.156885	-0.04075
AE003852	2711250	80.63	35.192	51.578	34.934	38.358	0.629199	-0.54644	0.694547	-1.09442	0.324537
AE003852	2711750	79.096	32.036	41.602	36.602	27.612	0.481319	-0.98458	-0.61033	-0.86467	-1.43399
AE003852	2712250	82.952	40.38	51.41	48.292	38.792	0.84887	0.170366	0.670459	0.751499	0.392846
AE003852	2712750	81.832	44.504	57.768	58.354	40.81	0.740579	0.740719	1.500352	2.142454	0.721503
AE003852	2713250	91.484	40.248	48.66	46.028	42.342	1.662388	0.150197	0.308917	0.436296	0.970688
AE003852	2713750	94.704	39.108	45.584	42.492	51.454	1.969121	-0.00867	-0.09417	-0.05387	2.459364
AE003852	2714250	87.214	33.632	46.834	49.704	44.398	1.251683	-0.7682	0.068137	0.942823	1.304228
AE003852	2714750	79.14	30.898	52.834	49.384	44.472	0.478398	-1.14788	0.851241	0.897552	1.314999
AE003852	2715250	70.218	36.69	52.018	43.064	45.184	-0.37598	-0.34646	0.743529	0.022253	1.430097
AE003852	2715750	74.762	40.748	45.128	52.234	30.846	0.057365	0.214753	-0.15803	1.289811	-0.9158
AE003852	2716250	63.366	26.978	57.102	47.708	39.666	-1.03359	-1.69374	1.405851	0.66269	0.525127
AE003852	2716750	58.316	32.076	47.198	35.942	37.822	-1.5177	-0.98846	0.110382	-0.966	0.222264
AE003852	2717250	74.38	32.726	55.422	35.782	33.312	0.017271	-0.89935	1.184153	-0.98913	-0.51655

AE003852	2717750	79.204	32.544	59.252	50.17	42.388	0.47739	-0.92551	1.683649	1.000271	0.966243
AE003852	2718250	72.818	42.824	42.462	36.462	48.144	-0.13447	0.497631	-0.51179	-0.89707	1.906142
AE003852	2718750	67.01	33.304	45.078	40.46	46.494	-0.69107	-0.82211	-0.17095	-0.345	1.635002
AE003852	2719250	68.974	31.512	68.488	44.138	46.136	-0.50444	-1.07129	2.887552	0.162809	1.575132
AE003852	2719750	73.898	40.128	49.242	35.802	41.956	-0.03476	0.121331	0.37113	-0.99138	0.890284
AE003852	2720250	75.986	40.216	44.3	39.798	49.684	0.163721	0.13258	-0.27583	-0.43958	2.152646
AE003852	2720750	63.23	43.498	47.294	32.822	40.496	-1.05729	0.586292	0.114405	-1.40563	0.648883
AE003852	2721250	64.21	25.546	52.242	36.862	38.472	-0.96476	-1.90153	0.760019	-0.84775	0.316587
AE003852	2721750	80.496	19.418	43.758	36.502	37.784	0.591437	-2.75137	-0.34986	-0.89855	0.202755
AE003852	2722250	70.826	37.152	47.162	39.922	49.434	-0.33447	-0.29564	0.093957	-0.42644	2.106448
AE003852	2722750	57.71	40.284	46.476	40.184	34.274	-1.58991	0.137292	0.003235	-0.3912	-0.37386
AE003852	2723250	60.612	30.684	51.938	48.25	34.512	-1.31358	-1.19353	0.716026	0.723636	-0.33628
AE003852	2723750	67.552	27.734	62.41	39.232	33.882	-0.65112	-1.60313	2.083599	-0.5249	-0.44062
AE003852	2724250	71.068	34.168	62.992	39.168	35.316	-0.31608	-0.71278	2.158598	-0.53476	-0.20746
AE003852	2724750	71.308	36.036	46.5	47.222	45.616	-0.29432	-0.45495	0.00211	0.578417	1.475475
AE003852	2725250	67.084	48.7	32.564	40.134	38.652	-0.69943	1.298445	-1.82032	-0.40313	0.335384
AE003852	2725750	74.408	42.808	54.052	42.672	33.186	-0.00025	0.48129	0.986988	-0.05303	-0.55975
AE003852	2726250	81.366	30.508	56.652	35.918	35.01	0.663941	-1.22356	1.325729	-0.98836	-0.26282
AE003852	2726750	84.442	38.668	56.532	39.81	31.228	0.956903	-0.0941	1.308981	-0.45095	-0.88259
AE003852	2727250	90.052	47.052	49.008	27.35	41.432	1.492185	1.066383	0.324566	-2.17565	0.784654
AE003852	2727750	63.652	34.02	50.792	26.274	40.416	-1.03357	-0.73987	0.55666	-2.3255	0.617187
AE003852	2728250	73.276	39.168	61.082	32.364	26.962	-0.11444	-0.02766	1.900447	-1.48403	-1.58416
AE003852	2728750	86.246	36.022	53.528	35.54	30.044	1.124663	-0.46442	0.912111	-1.04567	-1.08151
AE003852	2729250	74.1	34.396	49.982	37.19	33.84	-0.03802	-0.69061	0.447601	-0.81841	-0.46212
AE003852	2729750	82.34	42.816	52.702	30.974	32.626	0.748766	0.474865	0.802026	-1.67932	-0.66196
AE003852	2730250	74.79	48.074	52.182	49.048	40.17	0.025591	1.202309	0.732999	0.819997	0.570313
AE003852	2730750	67.312	53.654	34.118	58.542	36.28	-0.6907	1.974361	-1.62894	2.132376	-0.06711
AE003852	2731250	84.03	53.312	45.644	50.61	45.952	0.906813	1.926042	-0.12362	1.034076	1.513134
AE003852	2731750	86.61	32.448	48.636	60.52	40.8	1.152344	-0.96517	0.266358	2.404004	0.669343
AE003852	2732250	82.38	39.39	30.898	52.39	45.24	0.746651	-0.00444	-2.05298	1.278313	1.394047
AE003852	2732750	83.656	49.268	37.62	57.456	44.794	0.867484	1.363005	-1.17551	1.978131	1.319787
AE003852	2733250	80.326	40.838	37.98	37.466	39.89	0.547856	0.194262	-1.12952	-0.78825	0.51655
AE003852	2733750	81.432	40.408	40.272	42.162	38.976	0.652432	0.133753	-0.83104	-0.13962	0.365761
AE003852	2734250	81.508	51.224	57.844	54.87	36.078	0.658512	1.631143	1.464471	1.617382	-0.10945
AE003852	2734750	86.052	35.368	57.946	65.358	49.72	1.091855	-0.56632	1.476736	3.067269	2.119975
AE003852	2735250	86.346	40.232	49.358	42.64	54.644	1.118782	0.106547	0.353262	-0.0765	2.923824
AE003852	2735750	84.424	41.36	44.974	44.772	49.258	0.933798	0.261866	-0.22077	0.217437	2.041769

AE003852	2736250	69.936	27.412	43.778	48.724	41.598	-0.45284	-1.67128	-0.37815	0.763146	0.787866
AE003852	2736750	70.482	31.708	59.488	48.094	38.608	-0.40182	-1.0771	1.674006	0.674991	0.297608
AE003852	2737250	74.712	40.482	54.498	43.332	37.822	0.0015	0.137412	1.020772	0.015223	0.167751
AE003852	2737750	66.258	33.982	50.278	47.718	30.658	-0.80812	-0.76397	0.468174	0.620971	-1.00505
AE003852	2738250	73.58	41.494	48.476	41.162	36.044	-0.10913	0.275721	0.231596	-0.28698	-0.12565
AE003852	2738750	74.126	31.648	46.752	39.432	31.69	-0.0581	-1.08918	0.005212	-0.5273	-0.83895
AE003852	2739250	64.884	31.528	48.934	32.128	39.214	-0.94308	-1.10674	0.289323	-1.53873	0.390054
AE003852	2739750	71.872	26.132	52.004	46.58	41.94	-0.27602	-1.85519	0.689491	0.459533	0.834483
AE003852	2740250	69.364	28.426	47.548	45.686	42.698	-0.51704	-1.53835	0.106049	0.334856	0.957103
AE003852	2740750	62.102	46.104	44.142	40.252	41.238	-1.21268	0.909632	-0.34016	-0.41788	0.717032
AE003852	2741250	85.588	35.938	47.68	41.674	35.178	1.03204	-0.4996	0.12117	-0.22216	-0.27524
AE003852	2741750	65.662	37.882	46.604	34.236	35.262	-0.87462	-0.23124	-0.02052	-1.25212	-0.26283
AE003852	2742250	59.214	36.016	50.658	41.584	32.568	-1.49242	-0.49068	0.508249	-0.23662	-0.70469
AE003852	2742750	64.756	33.462	52.544	47.322	34.282	-0.96364	-0.84542	0.753674	0.556165	-0.42574
AE003852	2743250	71.276	40.172	75.55	48.864	37.738	-0.34133	0.083168	3.759378	0.76848	0.13806
AE003852	2743750	71.948	36.722	59.914	50.184	35.668	-0.27826	-0.3957	1.714766	0.950084	-0.20176
AE003852	2744250	76.646	36.97	42.73	45.336	39.872	0.169811	-0.36229	-0.53216	0.278419	0.484355
AE003852	2744750	73.482	32.976	34.566	66.986	42.46	-0.13394	-0.91651	-1.60022	3.272436	0.906218
AE003852	2745250	81.636	24.936	33.022	46.076	44.148	0.644616	-2.03123	-1.80308	0.378784	1.180913
AE003852	2745750	88.298	29.156	38.572	41.088	44.89	1.280499	-1.44758	-1.07879	-0.31225	1.300916
AE003852	2746250	77.554	35.988	46.96	44.2	43.214	0.251889	-0.50209	0.016415	0.117257	1.025525
AE003852	2746750	81.144	54.364	57.072	45.178	41.416	0.594004	2.042583	1.336937	0.25155	0.730184
AE003852	2747250	96.56	59.73	51.71	57.792	32.302	2.067009	2.784989	0.635085	1.995544	-0.76148
AE003852	2747750	87.822	57.938	44.282	50.514	33.036	1.230228	2.535803	-0.33678	0.987717	-0.64278
AE003852	2748250	75.124	39.3	42.932	37.128	36.274	0.014762	-0.04705	-0.51429	-0.86508	-0.11463
AE003852	2748750	74.642	34.908	45.064	40.02	39.796	-0.03252	-0.65641	-0.23671	-0.46601	0.459961
AE003852	2749250	90.658	38.3	50.566	37.44	41.496	1.497864	-0.18746	0.481308	-0.82392	0.736617
AE003852	2749750	95.016	31.672	50.044	42.196	38.42	1.91342	-1.10657	0.41202	-0.16699	0.232296
AE003852	2750250	87.508	36.438	48.2	46.766	33.77	1.194261	-0.44728	0.169953	0.464214	-0.52941
AE003852	2750750	82.302	40.744	42.908	54.55	29.27	0.695236	0.148282	-0.52275	1.540035	-1.26658
AE003852	2751250	71.848	43.702	49.476	62.722	29.524	-0.30564	0.55711	0.334589	2.669531	-1.22638
AE003852	2751750	79.024	42.518	56.59	49.732	44.232	0.379393	0.392149	1.263288	0.871517	1.177364
AE003852	2752250	99.2	45.854	50.642	45.75	47.996	2.307586	0.853341	0.484848	0.319653	1.791528
AE003852	2752750	78.196	47.918	49.294	37.816	44.598	0.297838	1.138324	0.307606	-0.77892	1.234553
AE003852	2753250	86.498	42.988	48.74	44.884	47.6	1.090549	0.454433	0.234135	0.197847	1.724114
AE003852	2753750	79.93	30.01	46.834	46.704	38.47	0.46128	-1.34434	-0.01603	0.44862	0.229836
AE003852	2754250	76.48	42.2	48.496	46.39	38.24	0.130177	0.343389	0.200115	0.40418	0.190896

AE003852	2754750	73.8	42.272	55.128	57.362	37.026	-0.12729	0.352421	1.065819	1.921023	-0.00895
AE003852	2755250	90.836	37.792	54.954	49.092	45.87	1.50063	-0.26913	1.042013	0.775964	1.435904
AE003852	2755750	113.818	41.77	54.236	49.872	48.81	3.697153	0.280996	0.947108	0.882866	1.915327
AE003852	2756250	106.508	41.2	53.698	47.824	39.722	2.996928	0.201093	0.875729	0.598547	0.427916
AE003852	2756750	80.426	46.922	59.014	53.432	35.538	0.501583	0.992815	1.569438	1.373344	-0.25759
AE003852	2757250	85.816	43.054	59.838	42.994	27.332	1.015827	0.456043	1.676065	-0.07163	-1.60077
AE003852	2757750	97.894	61.512	56.496	46.892	35.174	2.169628	3.012073	1.238217	0.466609	-0.31977
AE003852	2758250	105.888	59.046	44.182	59.48	45.344	2.932887	2.669518	-0.37223	2.207006	1.341914
AE003852	2758750	100.456	64.826	59.702	49.16	46.274	2.41225	3.469275	1.655094	0.778355	1.49266
AE003852	2759250	85.582	40.706	49.47	48.05	45.85	0.988699	0.12701	0.316757	0.623797	1.421997
AE003852	2759750	81.394	27.23	45.038	49.31	36.906	0.587023	-1.74075	-0.26355	0.797101	-0.04187
AE003852	2760250	85.004	34.586	47.95	48.412	39.912	0.93105	-0.72267	0.11597	0.671871	0.448349
AE003852	2760750	85.704	46.706	56.432	69.528	40.462	0.996801	0.95536	1.22346	3.592015	0.536956
AE003852	2761250	104.428	52.588	64.034	52.802	43.586	2.786142	1.769247	2.215938	1.27717	1.046466
AE003852	2761750	88.95	50.07	45.126	42.1	38.518	1.304832	1.419489	-0.25631	-0.20433	0.216411
AE003852	2762250	67.488	43.612	52.722	46.41	39.72	-0.74871	0.523925	0.735385	0.390908	0.411634
AE003852	2762750	87.57	51.414	53.358	43.332	49.65	1.17049	1.603788	0.817441	-0.0359	2.03407
AE003852	2763250	85.466	46.032	60.52	50.322	58.3	0.968102	0.857283	1.752414	0.930082	3.4472
AE003852	2763750	84.986	42.842	56.654	49.106	46.578	0.921013	0.414433	1.246081	0.760861	1.529074
AE003852	2764250	70.888	50.478	50.136	55.468	34.444	-0.42833	1.4713	0.393146	1.639965	-0.45642
AE003852	2764750	65.19	45.504	42.544	55.532	47.4	-0.97441	0.781314	-0.60016	1.647816	1.660829
AE003852	2765250	55.7	40.776	44.678	44.714	43.546	-1.8831	0.125407	-0.32232	0.150273	1.029289
AE003852	2765750	53.798	32.372	48.106	48.37	41.076	-2.06617	-1.03973	0.124638	0.655034	0.624062
AE003852	2766250	64.682	38.564	54.584	44.652	39.674	-1.02655	-0.1829	0.970215	0.139691	0.393475
AE003852	2766750	77.446	43.556	59.138	57.91	47.166	0.192853	0.507693	1.564335	1.972775	1.617247
AE003852	2767250	70.926	40.08	49.952	48.184	43.976	-0.43183	0.025224	0.362705	0.626296	1.094284
AE003852	2767750	85.12	42.286	46.23	39.464	53.082	0.924323	0.329877	-0.12481	-0.58101	2.581979
AE003852	2768250	87.412	38.884	52.046	47.058	53.44	1.142313	-0.14234	0.634249	0.468523	2.63919
AE003852	2768750	78.184	34.094	53.232	40.726	44.442	0.258674	-0.80684	0.788188	-0.40844	1.166497
AE003852	2769250	71.934	43.034	48.028	46.24	37.48	-0.34019	0.430672	0.106986	0.353357	0.026732
AE003852	2769750	74.706	49.998	47.576	38.878	39.916	-0.07629	1.394448	0.046846	-0.66609	0.42374
AE003852	2770250	79.232	37.872	60.836	48.94	46.518	0.355328	-0.2863	1.778797	0.724865	1.501978
AE003852	2770750	77.714	43.238	60.846	42.382	38.852	0.208978	0.456107	1.779038	-0.18336	0.247094
AE003852	2771250	61.762	36.46	53.708	59.53	42.094	-1.31766	-0.48379	0.845072	2.187861	0.775901
AE003852	2771750	72.076	38.678	43.65	57.658	48.01	-0.33255	-0.17747	-0.47052	1.92789	1.741963
AE003852	2772250	105.038	52.41	51.706	58.728	58.838	2.818339	1.723872	0.581289	2.074909	3.511241
AE003852	2772750	91.438	48.724	54.078	45.738	45.354	1.516617	1.212312	0.890233	0.276895	1.304991

AE003852	2773250	76.966	52	46.512	24.996	35.062	0.131508	1.665191	-0.09967	-2.59352	-0.3793
AE003852	2773750	75.516	49.172	57.652	29.176	33.248	-0.00834	1.272489	1.355206	-2.01627	-0.67726
AE003852	2774250	74.978	43.85	48.602	45.368	37.84	-0.06098	0.534295	0.17135	0.222703	0.072304
AE003852	2774750	75.964	41.168	51.78	49.044	38.56	0.032125	0.161818	0.585634	0.730231	0.188709
AE003852	2775250	77.456	31.528	45.066	43.544	30.876	0.173614	-1.17454	-0.29292	-0.03163	-1.06912
AE003852	2775750	59.854	31.834	39.026	42.31	37.726	-1.51081	-1.1331	-1.08338	-0.20334	0.049673
AE003852	2776250	76.768	36.348	30.728	31.97	39.934	0.105446	-0.50872	-2.16895	-1.63476	0.409399
AE003852	2776750	79.968	42.974	47.622	35.398	41.138	0.410266	0.408235	0.037942	-1.16154	0.604949
AE003852	2777250	72.964	39.388	35.86	38.098	34.61	-0.2607	-0.08947	-1.50036	-0.78903	-0.46385
AE003852	2777750	70.98	42.388	42.848	37.7	41.668	-0.45161	0.325174	-0.58813	-0.84509	0.688956
AE003852	2778250	84.874	47.026	51.832	38.312	31.526	0.87585	0.966731	0.584972	-0.76143	-0.97081
AE003852	2778750	90.046	44.726	53.328	31.136	28.45	1.369248	0.647172	0.779426	-1.75515	-1.47513
AE003852	2779250	80.384	34.734	59.098	40.762	31.556	0.444107	-0.73795	1.532471	-0.42451	-0.96856
AE003852	2779750	64.216	35.762	59.688	45.326	30.006	-1.10319	-0.59649	1.608515	0.205866	-1.22335
AE003852	2780250	57.418	34.554	40.13	41.318	37.328	-1.75445	-0.76477	-0.94868	-0.3496	-0.02737
AE003852	2780750	85.734	37.58	40.276	42.22	35.804	0.95215	-0.34652	-0.93067	-0.22582	-0.27791
AE003852	2781250	86.676	39.454	45.924	39.252	39.762	1.041043	-0.08786	-0.19357	-0.63741	0.367977
AE003852	2781750	75.588	41.308	61.61	42.428	38.602	-0.02046	0.168029	1.855449	-0.19905	0.176963
AE003852	2782250	69.13	43.93	56.684	43.604	38.4	-0.63921	0.530311	1.21058	-0.03736	0.142602
AE003852	2782750	74.008	44.53	53.674	49.202	33.218	-0.17393	0.612487	0.816123	0.736051	-0.70609
AE003852	2783250	67.442	29.908	48.628	55.482	41.708	-0.80301	-1.41403	0.15557	1.603811	0.680871
AE003852	2783750	75.624	38.658	43.724	57.904	52.41	-0.02177	-0.20284	-0.48642	1.937864	2.429546
AE003852	2784250	66.214	36.806	37.738	43.38	52.684	-0.92281	-0.46034	-1.26983	-0.07236	2.473021
AE003852	2784750	66.56	39.554	44.088	43.764	48.884	-0.89092	-0.0806	-0.44098	-0.02024	1.850311
AE003852	2785250	57.354	36.978	62.612	39.566	36.476	-1.77245	-0.43839	1.978948	-0.60199	-0.17999
AE003852	2785750	62.108	36.074	62.786	45.652	35.52	-1.31903	-0.56457	2.000623	0.238936	-0.33765
AE003852	2786250	79.08	29.426	50.08	45.044	35.432	0.302777	-1.48645	0.338946	0.153824	-0.35337
AE003852	2786750	87.422	34.052	44.388	49.39	39.428	1.099313	-0.84656	-0.40604	0.754039	0.298735
AE003852	2787250	92.268	28.26	40.578	45.726	34.848	1.561536	-1.64986	-0.90505	0.246166	-0.45152
AE003852	2787750	71.212	31.014	57.81	45.968	32.456	-0.45318	-1.26929	1.346023	0.278641	-0.84399
AE003852	2788250	79.442	38.538	64.65	37.278	35.664	0.332642	-0.22794	2.238911	-0.92452	-0.32075
AE003852	2788750	68.868	31.794	50.932	43.14	35.936	-0.67971	-1.16312	0.444971	-0.11458	-0.2776
AE003852	2789250	57.578	36.834	47.874	44.432	34.176	-1.76053	-0.46588	0.04424	0.063147	-0.56673
AE003852	2789750	51.412	42.466	47.232	38.732	35.506	-2.35136	0.313379	-0.04073	-0.72638	-0.35057
AE003852	2790250	56.522	39.484	48.974	45.772	40.468	-1.86389	-0.10066	0.185874	0.246515	0.45949
AE003852	2790750	69.068	41.578	56.326	49.69	49.658	-0.66534	0.188482	1.145678	0.787521	1.960921
AE003852	2791250	63.408	32.882	58.228	38.554	56.286	-1.20778	-1.01711	1.393195	-0.75401	3.04341

AE003852	2791750	64.716	43.164	47.464	46.148	54.578	-1.08388	0.406306	-0.01467	0.295523	2.762786
AE003852	2792250	70.33	36.666	57.982	45.408	50.748	-0.54822	-0.4948	1.358913	0.192151	2.13517
AE003852	2792750	91.5	35.506	56.298	41.002	40.348	1.475026	-0.65643	1.137757	-0.41837	0.43322
AE003852	2793250	87.97	34.708	50.632	41.47	38.208	1.136273	-0.76792	0.396174	-0.35463	0.081955
AE003852	2793750	72.244	43.028	47.586	43.964	38.164	-0.36875	0.383699	-0.00299	-0.01062	0.07343
AE003852	2794250	76.278	34.536	46.182	62.768	40.526	0.015821	-0.79363	-0.18755	2.58969	0.458338
AE003852	2794750	74.164	47.38	54.598	46.658	40.526	-0.18752	0.984695	0.911314	0.360061	0.457008
AE003852	2795250	70.924	45.366	54.634	43.89	32.902	-0.49855	0.704755	0.914953	-0.02386	-0.79101
AE003852	2795750	70.342	37.726	35.096	33.528	34.152	-0.55539	-0.35455	-1.63963	-1.45832	-0.58794
AE003852	2796250	80.948	23.648	46.372	43.964	37.912	0.457649	-2.3057	-0.16698	-0.01563	0.025575
AE003852	2796750	78.652	42.454	41.44	49.45	38.15	0.2369	0.298533	-0.81263	0.742292	0.063163
AE003852	2797250	71.54	52.202	40.18	34.714	31.03	-0.44439	1.647974	-0.97837	-1.29726	-1.10244
AE003852	2797750	69.796	42.458	53.198	42.626	36.482	-0.61235	0.297204	0.721948	-0.20373	-0.21225
AE003852	2798250	68.844	39.38	51.508	47.544	34.788	-0.70458	-0.13013	0.500008	0.475612	-0.49058
AE003852	2798750	78.354	40.478	50.186	45.436	41.762	0.203651	0.021033	0.326164	0.182993	0.648484
AE003852	2799250	69.548	41.35	53.202	48.278	55.312	-0.63963	0.140889	0.719274	0.575148	2.862867
AE003852	2799750	68.558	35.964	59.376	57.47	48.046	-0.73549	-0.60617	1.52512	1.845749	1.673392
AE003852	2800250	62.498	25.896	56.524	43.986	49.672	-1.31618	-2.00182	1.151312	-0.0206	1.937948
AE003852	2800750	71.122	33.536	45.378	39.682	36.638	-0.49268	-0.9444	-0.30648	-0.61701	-0.19472
AE003852	2801250	69.928	33.412	51.376	50.668	33.046	-0.60805	-0.96252	0.476363	0.901766	-0.78342
AE003852	2801750	68.774	41.658	53.624	61.784	47.354	-0.71959	0.178848	0.7691	2.43853	1.554917
AE003852	2802250	64.832	47.49	52.062	52.644	41.358	-1.09774	0.985808	0.563889	1.173117	0.573114
AE003852	2802750	61.97	45.028	42.04	42.86	39.742	-1.37261	0.643808	-0.747	-0.18138	0.307534
AE003852	2803250	73.596	44.264	55.932	42.626	56.972	-0.26204	0.53703	1.067548	-0.21476	3.123675
AE003852	2803750	64.206	46.326	65.988	42.528	48.08	-1.16117	0.821735	2.380752	-0.22932	1.668315
AE003852	2804250	61.154	42.518	47.91	52.738	33.028	-1.45421	0.293274	0.016982	1.182112	-0.79434
AE003852	2804750	81.258	35.578	43.992	44.214	34.438	0.467098	-0.66906	-0.49615	0.001915	-0.5651
AE003852	2805250	87.708	29.324	44.842	36.3	47.3	1.082707	-1.53636	-0.38612	-1.09389	1.536779
AE003852	2805750	76.178	35.586	46.93	37.274	37.246	-0.02107	-0.66983	-0.1143	-0.96016	-0.10859
AE003852	2806250	79.456	39.408	56.726	43.246	38.086	0.291213	-0.14132	1.164927	-0.135	0.027435
AE003852	2806750	78.786	38.57	42.672	41.182	38.052	0.225954	-0.25835	-0.67293	-0.42154	0.020546
AE003852	2807250	97.266	50.174	36.982	42.114	37.7	1.991963	1.348204	-1.41765	-0.29361	-0.03834
AE003852	2807750	80.828	44.484	41.52	36.644	36.194	0.41885	0.559031	-0.82562	-1.05132	-0.28594
AE003852	2808250	66.456	28.46	50.422	52.204	41.504	-0.9567	-1.6617	0.336764	1.10022	0.581033
AE003852	2808750	68.712	34.73	53.352	50.706	47.714	-0.74215	-0.79407	0.718635	0.891987	1.59517
AE003852	2809250	91.018	44.758	54.184	36.728	36.526	1.38973	0.594163	0.826308	-1.0427	-0.23564
AE003852	2809750	99.634	42.674	47.832	40.402	27.638	2.212468	0.304527	-0.00493	-0.53545	-1.69034

AE003852	2810250	86.018	33.974	51.022	39.286	41.75	0.909216	-0.90162	0.410919	-0.69084	0.61594
AE003852	2810750	68.808	35.944	51.044	55.602	50.344	-0.73772	-0.62966	0.412729	1.565281	2.019912
AE003852	2811250	74.332	43.486	39.562	49.272	40.69	-0.21066	0.414187	-1.08898	0.688598	0.439949
AE003852	2811750	69.898	55.004	45.072	37.488	28.352	-0.63586	2.008825	-0.36991	-0.94258	-1.57891
AE003852	2812250	60.146	55.228	45.83	38.394	32.42	-1.56961	2.038914	-0.27191	-0.81825	-0.91503
AE003852	2812750	70.8	58.438	47.59	47.68	37.918	-0.55198	2.482651	-0.04295	0.465357	-0.01732
AE003852	2813250	83.596	46.896	54.682	42.036	48.388	0.670479	0.882805	0.88287	-0.31643	1.693417
AE003852	2813750	92.432	35.754	48.78	35.094	42.184	1.514255	-0.66163	0.110443	-1.27777	0.677602
AE003852	2814250	76.556	28.758	44.608	33.354	29.828	-0.00511	-1.63172	-0.43588	-1.51948	-1.3442
AE003852	2814750	78.9	35.59	42.496	37.26	23.602	0.217848	-0.68623	-0.71298	-0.98014	-2.36361
AE003852	2815250	85.476	41.706	56.004	46.726	25.632	0.845506	0.160072	1.051387	0.328371	-2.03299
AE003852	2815750	77.34	33.442	48.36	39.82	33.952	0.066293	-0.98567	0.051289	-0.62799	-0.67382
AE003852	2816250	79.564	26.182	40.648	38.226	37.096	0.277781	-1.99234	-0.9577	-0.84951	-0.16104
AE003852	2816750	88.03	35.498	41.752	53.606	31.442	1.086175	-0.70274	-0.81447	1.277129	-1.08692
AE003852	2817250	79.708	37.94	45.852	52.426	33.614	0.289175	-0.3654	-0.27969	1.112888	-0.73308
AE003852	2817750	87.434	29.564	43.64	39.228	32.754	1.026805	-1.52666	-0.56985	-0.7139	-0.87504
AE003852	2818250	93.626	29.622	49.114	37.122	38.84	1.617742	-1.51956	0.144506	-1.00624	0.11882
AE003852	2818750	79.072	34.696	47.406	35.586	30.794	0.224792	-0.81761	-0.07979	-1.21973	-1.1982
AE003852	2819250	74.862	48.996	46.68	42.378	35.206	-0.17899	1.162416	-0.17574	-0.28114	-0.47808
AE003852	2819750	85.878	36.07	47.616	49.03	43.714	0.873257	-0.62915	-0.05447	0.63808	0.911834
AE003852	2820250	85.886	32.768	49.902	46.196	37.584	0.872834	-1.08752	0.243231	0.245028	-0.09188
AE003852	2820750	80.254	42.338	43.554	50.266	45.762	0.333072	0.237264	-0.58749	0.807061	1.244066
AE003852	2821250	72.214	31.278	44.188	51.068	32.688	-0.43696	-1.29581	-0.50569	0.917006	-0.89514
AE003852	2821750	70.752	38.672	44.666	49.176	32.928	-0.57796	-0.27247	-0.44428	0.654268	-0.85722
AE003852	2822250	69.704	30.888	42.826	44.508	25.968	-0.67936	-1.35172	-0.68583	0.007503	-1.99666
AE003852	2822750	80.36	34.28	45.21	68.696	30.554	0.338456	-0.88277	-0.37532	3.352623	-1.24808
AE003852	2823250	69.17	36.94	50.02	40.882	31.362	-0.7328	-0.51522	0.252261	-0.49612	-1.11729
AE003852	2823750	72.526	41.974	52.672	39.626	50.392	-0.41307	0.181189	0.597799	-0.67087	1.993192
AE003852	2824250	65.008	50.49	51.248	39.016	41.988	-1.13318	1.359962	0.410623	-0.75626	0.61763
AE003852	2824750	73.836	47.272	51.974	47.52	41.47	-0.29017	0.913234	0.504442	0.419166	0.531596
AE003852	2825250	88.152	44.796	61.016	43.032	36.914	1.077646	0.569294	1.685121	-0.2027	-0.21474
AE003852	2825750	80.42	48.89	68.842	43.696	46.834	0.337066	1.135491	2.706875	-0.11184	1.406065
AE003852	2826250	73.742	56.466	78.922	42.74	36.954	-0.30272	2.184046	4.023216	-0.2451	-0.21085
AE003852	2826750	94.298	53.132	70.284	58.284	44.678	1.661808	1.721248	2.893207	1.904227	1.050854
AE003852	2827250	100.25	43.414	64.254	46.008	39.936	2.229795	0.37408	2.10405	0.204987	0.274107
AE003852	2827750	98.19	35.166	54.988	52.838	41.748	2.031614	-0.76945	0.891965	1.148833	0.569077
AE003852	2828250	87.324	38.69	58.99	54.128	44.834	0.991338	-0.28222	1.413941	1.326287	1.072374

AE003852	2828750	103.404	43.932	66.194	63.67	39.318	2.52784	0.443013	2.354402	2.645307	0.169062
AE003852	2829250	102.086	43.812	63.316	42.104	29.836	2.400615	0.425448	1.977196	-0.33909	-1.38278
AE003852	2829750	102.83	36.988	45.238	31.766	24.708	2.470574	-0.52082	-0.38657	-1.77024	-2.22264
AE003852	2830250	84.84	39.288	41.692	24.034	27.256	0.749047	-0.20314	-0.85108	-2.84087	-1.80732
AE003852	2830750	84.072	46.74	49.618	49.31	38.018	0.674417	0.828236	0.183739	0.654762	-0.04883
AE003852	2831250	66.906	42.102	54.734	52.182	36.608	-0.96831	0.184796	0.85131	1.051067	-0.28073
AE003852	2831750	80.422	36.03	50.6	47.28	44.224	0.323001	-0.65729	0.309951	0.371931	0.963319
AE003852	2832250	84.814	48.862	45.736	45.084	44.626	0.741809	1.11937	-0.32682	0.067139	1.027725
AE003852	2832750	65.236	45.614	46.788	35.282	39.794	-1.13157	0.668486	-0.19039	-1.28985	0.236261
AE003852	2833250	65.09	39.332	56.83	45.776	37.956	-1.14672	-0.2027	1.120985	0.160864	-0.06562
AE003852	2833750	72.348	37.676	44.702	61.074	36.646	-0.45385	-0.43304	-0.46515	2.276157	-0.28116
AE003852	2834250	76.15	40.274	55.282	36.668	33.49	-0.09146	-0.07409	0.916538	-1.10112	-0.79857
AE003852	2834750	75.732	29.834	54.912	42.11	28.462	-0.13262	-1.52127	0.867115	-0.34929	-1.62208
AE003852	2835250	84.27	37.66	62.1	44.528	33.656	0.68266	-0.43808	1.805486	-0.01579	-0.77408
AE003852	2835750	74.276	45.154	51.298	37.388	33.124	-0.27423	0.599112	0.392652	-1.00453	-0.8624
AE003852	2836250	66.264	42.242	53.6	42.952	27.456	-1.04159	0.194774	0.692447	-0.23582	-1.79057
AE003852	2836750	75.332	40.84	50.24	46.11	25.626	-0.17562	-0.00039	0.252246	0.200052	-2.09114
AE003852	2837250	76.748	40.226	38.664	46.992	35.114	-0.0414	-0.08638	-1.26174	0.321064	-0.54098
AE003852	2837750	58.622	55.516	40.122	36.764	29.302	-1.77593	2.030785	-1.07226	-1.09486	-1.4927
AE003852	2838250	51.276	31.376	51.014	36.508	35.594	-2.4796	-1.31425	0.350208	-1.13128	-0.46515
AE003852	2838750	58.222	29.524	48.586	38.426	41.118	-1.81656	-1.57175	0.031815	-0.86695	0.436808
AE003852	2839250	81.066	32.432	48.048	35.664	33.546	0.366765	-1.16985	-0.03956	-1.25004	-0.8027
AE003852	2839750	100.856	34.754	50.614	42.2	38.252	2.258045	-0.84912	0.294733	-0.34686	-0.0345
AE003852	2840250	84.944	42.42	64.538	60.42	49.362	0.735233	0.211898	2.113466	2.172653	1.780888
AE003852	2840750	89.37	45.232	65.898	56.19	41.956	1.157292	0.600501	2.290145	1.586481	0.56852
AE003852	2841250	79.132	37.408	66.748	48.368	41.342	0.17707	-0.48429	2.400171	0.503398	0.466789
AE003852	2841750	79.924	35.658	60.572	56.678	45.552	0.251619	-0.72766	1.591933	1.651985	1.153883
AE003852	2842250	79.558	40.424	44.952	48.014	43.698	0.215431	-0.06837	-0.45059	0.452421	0.849385
AE003852	2842750	75.112	54.476	48.826	50.854	41.622	-0.21092	1.877298	0.054658	0.844299	0.508586
AE003852	2843250	85.996	51.322	61.37	34.588	34.982	0.828705	1.439435	1.693031	-1.40691	-0.57852
AE003852	2843750	75.856	56.7	52.734	35.288	39.678	-0.14215	2.183503	0.563283	-1.31108	0.188041
AE003852	2844250	80.856	58.61	35.78	48.616	42.032	0.334803	2.447153	-1.65359	0.531691	0.571641
AE003852	2844750	78.128	43.174	44.072	46.198	30.488	0.072744	0.307874	-0.57093	0.196188	-1.31738
AE003852	2845250	75.792	33.096	39.958	51.848	35.11	-0.15183	-1.08916	-1.10967	0.976795	-0.56291
AE003852	2845750	60.514	27.312	41.828	35.526	32.978	-1.61402	-1.89136	-0.86634	-1.28216	-0.91287
AE003852	2846250	81.072	42.224	59.004	54.45	29.898	0.350707	0.173447	1.377414	1.334746	-1.41784
AE003852	2846750	78.978	42.084	42.302	36.67	30.268	0.149275	0.153111	-0.80652	-1.12591	-1.35867

AE003852	2847250	64.422	46.308	52.83	27.838	41.902	-1.24387	0.737316	0.568372	-2.34871	0.542405
AE003852	2847750	63.274	48.028	58.062	36.036	39.886	-1.35484	0.974645	1.251103	-1.21562	0.211417
AE003852	2848250	62.988	41.906	51.402	35.582	33.838	-1.38337	0.125628	0.379608	-1.27943	-0.77889
AE003852	2848750	65.58	42.484	58.744	44.908	48.438	-1.13669	0.204756	1.338106	0.009712	1.607191
AE003852	2849250	64.276	46.73	45.2	54.496	44.45	-1.26258	0.792009	-0.43309	1.335096	0.953739
AE003852	2849750	71.752	47.564	33.29	38.164	32.792	-0.54886	0.906601	-1.99074	-0.92524	-0.95392
AE003852	2850250	88.982	41.866	29.466	29.972	34.284	1.097616	0.11632	-2.49158	-2.05951	-0.71128
AE003852	2850750	94.54	48.154	33.236	37.084	39.748	1.627926	0.98645	-1.99992	-1.07665	0.180873
AE003852	2851250	71.356	33.914	43.21	44.298	34.148	-0.59029	-0.98715	-0.69744	-0.07969	-0.73618
AE003852	2851750	72.668	33.432	49.914	43.624	38.166	-0.46601	-1.05486	0.177676	-0.17393	-0.08048
AE003852	2852250	84.406	35.778	61.024	44.492	51.028	0.655273	-0.73081	1.628632	-0.05485	2.021404
AE003852	2852750	110.414	54.97	54.568	50.264	48.69	3.141165	1.926898	0.7838	0.742632	1.637762
AE003852	2853250	109.85	45.706	54.806	52.376	45.232	3.086043	0.642622	0.81384	1.0338	1.070976
AE003852	2853750	101.818	44.284	39.946	47.528	31.692	2.316775	0.444692	-1.12935	0.362134	-1.14443
AE003852	2854250	95.512	39.102	31.138	43.882	27.014	1.71256	-0.27411	-2.28158	-0.14325	-1.91071
AE003852	2854750	83.886	28.99	46.972	53.514	32.432	0.599607	-1.67586	-0.21322	1.188221	-1.02608
AE003852	2855250	64.672	28.476	37.458	45.34	35.698	-1.23897	-1.748	-1.45772	0.056443	-0.49335
AE003852	2855750	63.178	35.18	43	50.69	26.704	-1.38302	-0.82024	-0.73447	0.79555	-1.96539
AE003852	2856250	57.412	37.714	38.112	34.446	30.962	-1.9356	-0.47015	-1.37438	-1.45262	-1.27045
AE003852	2856750	58.37	42.618	53.086	44.662	27.58	-1.84518	0.208252	0.581586	-0.04036	-1.82481
AE003852	2857250	70.446	36.134	44.528	46.96	38.97	-0.69157	-0.69091	-0.53797	0.276542	0.036369
AE003852	2857750	58.494	39.828	47.2	52.1	31.914	-1.83569	-0.18013	-0.18982	0.986597	-1.11877
AE003852	2858250	66.048	36.306	53.616	50.144	27.736	-1.11451	-0.66897	0.647658	0.715005	-1.80329
AE003852	2858750	71.904	43.458	55.318	55.57	39.506	-0.55571	0.32085	0.869035	1.464625	0.120028
AE003852	2859250	63.256	52.294	60.172	50.2	39.096	-1.38388	1.543952	1.502364	0.720748	0.051654
AE003852	2859750	62.43	53.15	42.448	38.958	43.134	-1.46406	1.661591	-0.81514	-0.83545	0.710623
AE003852	2860250	67.726	45.502	42.628	40.584	44.268	-0.9588	0.601179	-0.79268	-0.61152	0.894727
AE003852	2860750	58.364	59.858	47.412	43.12	43.136	-1.85525	2.588962	-0.1685	-0.26169	0.708291
AE003852	2861250	66.548	57.698	37.85	41.968	33.664	-1.07383	2.288797	-1.41927	-0.42206	-0.84191
AE003852	2861750	75.482	44.19	47.81	41.836	33.236	-0.22068	0.416603	-0.11862	-0.44132	-0.91323
AE003852	2862250	73.038	38.126	45.984	36.952	36.066	-0.45558	-0.42438	-0.35833	-1.11797	-0.45179
AE003852	2862750	72.564	32.834	44.478	30.836	41.206	-0.5021	-1.15842	-0.55622	-1.96505	0.387377
AE003852	2863250	73.018	38.582	59.732	46.004	34.712	-0.45987	-0.36309	1.436334	0.132262	-0.67586
AE003852	2863750	72.252	35.136	57.37	55.91	40.824	-0.53431	-0.84141	1.126567	1.501637	0.322253
AE003852	2864250	80.806	37.972	48.002	45.58	38.552	0.282502	-0.44948	-0.09885	0.071602	-0.0506
AE003852	2864750	77.986	39.926	59.474	44.12	44.65	0.011645	-0.17974	1.399418	-0.13137	0.945226
AE003852	2865250	67.518	35.786	66.846	50.334	49.238	-0.99057	-0.75419	2.361837	0.727256	1.694132

AE003852	2865750	84.382	42.616	60.802	53.194	51.966	0.620902	0.191025	1.57085	1.121901	2.138888
AE003852	2866250	91.202	57.614	53.1	39.02	51.982	1.271894	2.267744	0.563172	-0.83991	2.140175
AE003852	2866750	76.954	53.764	43.086	24.404	47.752	-0.09179	1.733465	-0.74667	-2.86286	1.44715
AE003852	2867250	80.886	48.9	50.966	39.794	59.604	0.283024	1.058717	0.282138	-0.73484	3.383874
AE003852	2867750	83.436	35.904	39.854	40.982	41.742	0.525686	-0.74255	-1.17121	-0.57149	0.461728
AE003852	2868250	88.304	50.768	39.394	46.768	45.06	0.990013	1.315607	-1.2324	0.227928	1.002962
AE003852	2868750	88.914	48.006	41.554	53.122	46.494	1.047158	0.932047	-0.95116	1.105926	1.236122
AE003852	2869250	99.768	34.41	35.858	48.208	52.356	2.083911	-0.95234	-1.69666	0.42513	2.193354
AE003852	2869750	93.694	41.604	44.442	48.86	42.174	1.501881	0.0433	-0.57584	0.514324	0.527051
AE003852	2870250	71.24	45.398	35.556	56.424	38.584	-0.64653	0.567938	-1.73827	1.559711	-0.06132
AE003852	2870750	79.95	43.856	50.816	42.186	36.446	0.185201	0.353385	0.255075	-0.41095	-0.41226
AE003852	2871250	92.434	39.562	49.078	51.73	42.34	1.377827	-0.2424	0.026862	0.908348	0.550207
AE003852	2871750	86.926	32.492	48.936	50.948	58.788	0.849922	-1.22274	0.007238	0.799165	3.238475
AE003852	2872250	82.112	29.574	42.996	49.328	36.186	0.388384	-1.62791	-0.77016	0.574055	-0.45876
AE003852	2872750	71.688	29.254	53.186	55.458	31.696	-0.60963	-1.67319	0.560561	1.421065	-1.1943
AE003852	2873250	60.112	26.732	48.342	43.884	38.78	-1.7178	-2.0235	-0.07359	-0.18106	-0.03725
AE003852	2873750	51.442	28.11	39.528	37.708	38.09	-2.54808	-1.83355	-1.2266	-1.03644	-0.15141
AE003852	2874250	65.416	34.632	51.32	48.022	46.328	-1.21297	-0.931	0.313487	0.389376	1.194352
AE003852	2874750	76.78	29.7	49.514	49.594	32.334	-0.12744	-1.61517	0.076387	0.605841	-1.09529
AE003852	2875250	75.366	29.148	48.086	30.268	32.472	-0.26385	-1.69258	-0.11131	-2.06868	-1.07406
AE003852	2875750	61.33	41.616	52.044	38.568	36.8	-1.60726	0.033662	0.404914	-0.92148	-0.36767
AE003852	2876250	56.742	55.328	45.862	39.548	44.418	-2.04719	1.932233	-0.40411	-0.78691	0.876708
AE003852	2876750	75.212	60.878	51.618	42.492	42.19	-0.28214	2.700128	0.347107	-0.38065	0.511053
AE003852	2877250	74.064	40.92	44.896	48.718	31.024	-0.39311	-0.06558	-0.53249	0.479645	-1.31615
AE003852	2877750	77.744	50.746	47.718	34.354	32.956	-0.04239	1.294667	-0.16473	-1.50845	-1.00156
AE003852	2878250	63.986	34.128	44.346	35.772	40.034	-1.35922	-1.00835	-0.6065	-1.31328	0.154512
AE003852	2878750	48.948	29.028	38.82	26.144	36.554	-2.79845	-1.71579	-1.32979	-2.64621	-0.41587
AE003852	2879250	75.554	36.504	43.686	31.492	33.188	-0.25537	-0.68109	-0.69489	-1.90738	-0.96761
AE003852	2879750	98.694	38.272	50.986	42.706	33.354	1.956259	-0.43711	0.258115	-0.35706	-0.9418
AE003852	2880250	80.01	43.928	48.806	44.362	45.016	0.168367	0.345467	-0.02787	-0.12897	0.963857
AE003852	2880750	62.55	50.784	41.656	63.752	44.396	-1.50248	1.294281	-0.9634	2.552403	0.861144
AE003852	2881250	57.854	34.324	38.29	43.816	32.65	-1.95273	-0.98685	-1.40439	-0.20651	-1.06091
AE003852	2881750	49.76	27.418	43.106	41.232	42.628	-2.72793	-1.94447	-0.77602	-0.56498	0.569379
AE003852	2882250	59.352	38.338	51.028	34.264	45.692	-1.81186	-0.43268	0.258277	-1.52992	1.069079
AE003852	2882750	60.49	53.182	55.046	39.49	42.574	-1.70422	1.622708	0.782344	-0.80797	0.55789
AE003852	2883250	70.382	44.32	61.424	33.626	44.482	-0.75946	0.39412	1.614852	-1.62018	0.868559
AE003852	2883750	62.676	38.864	57.396	26.916	52.884	-1.49756	-0.36264	1.087347	-2.54943	2.241135

AE003852	2884250	80.772	33.424	54.866	36.112	48.198	0.231731	-1.11718	0.755623	-1.27828	1.473545
AE003852	2884750	88.702	43.232	41.234	33.606	47.344	0.988869	0.240576	-1.02708	-1.62596	1.332568
AE003852	2885250	82.478	49.578	37.61	44.622	42.486	0.392495	1.11874	-1.50178	-0.10303	0.536852
AE003852	2885750	63.502	37.628	45.254	45.01	40.192	-1.42332	-0.53763	-0.50381	-0.05035	0.160405
AE003852	2886250	73.398	36.686	48.778	49.738	43.062	-0.47818	-0.66906	-0.04431	0.602707	0.628381
AE003852	2886750	77.43	42.302	46.062	39.388	40.734	-0.0938	0.107977	-0.40034	-0.83009	0.246374
AE003852	2887250	79.402	49.506	40.4	45.52	49.58	0.093593	1.104999	-1.1414	0.017192	1.691553
AE003852	2887750	104.412	42.748	39.03	37.49	36.384	2.484049	0.167877	-1.32152	-1.09467	-0.4676
AE003852	2888250	96.17	47.734	45.382	46.214	42.004	1.694699	0.857642	-0.49241	0.111194	0.450057
AE003852	2888750	83.02	54.456	44.042	44.324	49.194	0.43601	1.787894	-0.66861	-0.15127	1.624445
AE003852	2889250	82.552	47.336	51.244	48.434	49.708	0.390068	0.800624	0.271591	0.4163	1.707166
AE003852	2889750	86.542	34.646	47.374	42.816	38.63	0.770434	-0.95825	-0.23526	-0.36189	-0.10565
AE003852	2890250	80.952	39.424	41.794	40.538	34.182	0.234688	-0.2973	-0.96561	-0.67802	-0.83432
AE003852	2890750	80.94	43.294	42.026	43.652	34.234	0.232352	0.237864	-0.93635	-0.24824	-0.82715
AE003852	2891250	86.404	43.086	36.774	40.974	36.256	0.753673	0.208109	-1.62383	-0.61971	-0.49784
AE003852	2891750	86.07	42.676	33.516	43.424	31.466	0.720545	0.15037	-2.0507	-0.28179	-1.28244
AE003852	2892250	78.502	37.088	27.598	40.708	32.586	-0.00435	-0.62467	-2.82522	-0.65851	-1.10062
AE003852	2892750	82.392	52.904	29.984	34.156	35.844	0.366451	1.565363	-2.51444	-1.56591	-0.5692
AE003852	2893250	66.49	49.472	42.544	40.22	34.482	-1.15541	1.088989	-0.87398	-0.72803	-0.79325
AE003852	2893750	75.926	39.888	46.126	45.816	39.404	-0.25425	-0.23962	-0.4069	0.045109	0.010276
AE003852	2894250	88.832	41.086	62.45	52.198	45.654	0.978729	-0.0746	1.725505	0.92698	1.030955
AE003852	2894750	91.812	37.286	61.686	43.136	38.028	1.26251	-0.60195	1.624588	-0.32764	-0.21739
AE003852	2895250	83.1	50.684	50.678	45.34	33.942	0.428216	1.25312	0.184832	-0.02375	-0.88687
AE003852	2895750	75.474	45.57	59.98	46.856	41.062	-0.30223	0.54374	1.399492	0.184971	0.276076
AE003852	2896250	76.974	28.294	43.292	43.346	43.76	-0.15997	-1.85043	-0.78261	-0.3016	0.715927
AE003852	2896750	76.454	37.782	46.904	44.816	28.746	-0.21089	-0.53701	-0.31161	-0.09924	-1.74051
AE003852	2897250	59.472	43.856	50.802	49.646	31.07	-1.83602	0.303476	0.196776	0.567927	-1.36182
AE003852	2897750	70.312	36.534	57.732	34.772	31.586	-0.80061	-0.71178	1.101427	-1.49072	-1.27877
AE003852	2898250	76.422	41.044	60.854	34.596	34.232	-0.21751	-0.08795	1.508392	-1.51607	-0.84742
AE003852	2898750	67.642	51.154	47.83	40.534	32.358	-1.05831	1.311637	-0.19485	-0.69562	-1.15519
AE003852	2899250	82.324	33.27	39.912	43.198	29.124	0.344505	-1.16676	-1.23075	-0.32809	-1.68535
AE003852	2899750	66.428	45.754	43.366	49.344	35.882	-1.17678	0.561696	-0.7804	0.521137	-0.5816
AE003852	2900250	63.358	40.082	41.076	46.586	32.692	-1.47154	-0.22498	-1.08076	0.138598	-1.10456
AE003852	2900750	73.272	43.598	45.008	47.678	39.632	-0.52468	0.261144	-0.56793	0.288661	0.028945
AE003852	2901250	75.834	31.054	48.226	44.51	50.162	-0.28087	-1.47751	-0.14842	-0.1506	1.749494
AE003852	2901750	68.568	34.82	46.024	41.562	32.376	-0.97689	-0.95675	-0.43727	-0.55942	-1.16022
AE003852	2902250	80.872	40.348	36.82	55.74	32.802	0.198526	-0.1919	-1.64126	1.400936	-1.09189

AE003852	2902750	76.298	52.344	51.104	58.684	42.502	-0.24006	1.468953	0.224526	1.807201	0.492932
AE003852	2903250	70.776	45.04	52.46	40.386	37.474	-0.76931	0.456195	0.400683	-0.72511	-0.33058
AE003852	2903750	73.06	34.088	60.6	49.25	43.962	-0.55208	-1.06192	1.463475	0.500114	0.729014
AE003852	2904250	62.786	24.222	56.116	42.142	50.01	-1.53575	-2.42959	0.876373	-0.4842	1.716661
AE003852	2904750	65.802	31.424	35.002	30.766	47.05	-1.24852	-1.43284	-1.88419	-2.05893	1.231309
AE003852	2905250	66.16	36.442	43.632	43.94	43.282	-1.21547	-0.73865	-0.75735	-0.23747	0.613831
AE003852	2905750	72.844	46.096	52.992	72.564	40.248	-0.57749	0.597773	0.464885	3.721319	0.116378
AE003852	2906250	80.01	56.082	53.16	52.124	28.244	0.106591	1.980184	0.485777	0.892686	-1.84786
AE003852	2906750	72.136	47.45	50.986	50.974	43.962	-0.64757	0.783458	0.20058	0.732595	0.721037
AE003852	2907250	83.464	46.434	48.768	57.956	43.604	0.434512	0.641771	-0.09037	1.697469	0.661166
AE003852	2907750	67.074	52.4	60.46	64.11	52.78	-1.13401	1.467294	1.436654	2.547799	2.160308
AE003852	2908250	75.994	51.936	50.214	43.174	36.972	-0.2822	1.402075	0.096487	-0.34945	-0.42597
AE003852	2908750	69.39	41.408	48.082	47.246	38.332	-0.91491	-0.0573	-0.18322	0.212861	-0.20491
AE003852	2909250	71.854	39.214	49.088	50.518	52.398	-0.68048	-0.36218	-0.05281	0.664501	2.093854
AE003852	2909750	99.136	37.94	40.85	37.162	40.738	1.927246	-0.5396	-1.13054	-1.18414	0.185866
AE003852	2910250	102.162	49.282	47.41	46.128	41.396	2.215427	1.030652	-0.27424	0.055192	0.292134
AE003852	2910750	92.148	48.278	45.57	47.526	34.18	1.256625	0.890627	-0.51579	0.247586	-0.88917
AE003852	2911250	64.828	37.962	52.782	40.04	29.688	-1.35711	-0.53938	0.425719	-0.78902	-1.62503
AE003852	2911750	67.734	35.648	48.034	19.696	24.114	-1.0804	-0.86088	-0.19589	-3.60437	-2.53783
AE003852	2912250	92.396	43.402	41.932	36.76	34.804	1.276777	0.212334	-0.99445	-1.24477	-0.79112
AE003852	2912750	90.744	37.684	60.424	38.26	35.322	1.117612	-0.58072	1.421295	-1.03826	-0.70774
AE003852	2913250	86.7	39.108	55.102	39.9	31.212	0.729707	-0.38439	0.72467	-0.81239	-1.38114
AE003852	2913750	78.908	38.822	30.162	43.888	34.244	-0.01661	-0.42495	-2.53593	-0.2617	-0.88668
AE003852	2914250	61.264	38.21	36.104	39.588	40.352	-1.70505	-0.51068	-1.76041	-0.85756	0.110781
AE003852	2914750	67.226	29.64	53.094	36.536	43.302	-1.13611	-1.69881	0.459038	-1.28077	0.591839
AE003852	2915250	71.274	32.836	45.96	42.118	39.786	-0.75019	-1.25702	-0.47441	-0.50957	0.015569
AE003852	2915750	67.896	42.984	39.662	38.726	37.562	-1.07441	0.147837	-1.29859	-0.97981	-0.34943
AE003852	2916250	75.15	53.454	43.128	41.706	42.084	-0.38192	1.597296	-0.84666	-0.56857	0.388681
AE003852	2916750	59.528	52.958	39.772	50.37	42.686	-1.877	1.527644	-1.28634	0.628991	0.485791
AE003852	2917250	66.93	45.904	41.35	49.836	52.816	-1.17035	0.549517	-1.08117	0.554116	2.140932
AE003852	2917750	75.928	45.178	42.986	44.13	48.716	-0.31108	0.448003	-0.86842	-0.23624	1.469165
AE003852	2918250	85.536	43.056	47.808	55.376	46.962	0.606516	0.153103	-0.23927	1.318504	1.181019
AE003852	2918750	90.942	45.886	54.024	50.902	38.93	1.122291	0.544199	0.572061	0.698577	-0.13371
AE003852	2919250	95.074	58.838	50.178	45.208	45.562	1.516235	2.337487	0.068342	-0.09012	0.949431
AE003852	2919750	77.166	46.454	58.46	53.476	44.196	-0.19745	0.621	1.149693	1.052655	0.724731
AE003852	2920250	99.574	60.128	60.496	56.014	54.212	1.944183	2.514306	1.414723	1.402755	2.36123
AE003852	2920750	99.576	61.546	51.572	37.442	45.78	1.943186	2.709799	0.247335	-1.16746	0.981089

AE003852	2921250	81.586	49.818	61.32	37.522	27.718	0.22166	1.084187	1.520284	-1.1574	-1.97376
AE003852	2921750	77.856	41.808	51.866	41.052	45.608	-0.13622	-0.02637	0.283628	-0.67007	0.950304
AE003852	2922250	68.868	29.394	52.666	41.058	52.356	-0.99691	-1.74702	0.387119	-0.67024	2.052416
AE003852	2922750	85.884	33.32	56.346	53.246	35.42	0.629103	-1.20409	0.867011	1.014823	-0.71831
AE003852	2923250	99.03	38.432	51.994	53.964	29.95	1.885034	-0.49687	0.297161	1.113147	-1.6141
AE003852	2923750	87.004	49.954	41.438	48.36	38.092	0.73383	1.098319	-1.08352	0.336898	-0.28404
AE003852	2924250	93.932	46.494	49.314	55.098	39.11	1.395149	0.618066	-0.05523	1.268018	-0.1189
AE003852	2924750	89.216	46.084	54.108	41.708	40.822	0.942982	0.560327	0.570254	-0.58533	0.159714
AE003852	2925250	96.742	49.882	38.272	48.27	41.866	1.661486	1.08552	-1.5005	0.321441	0.329101
AE003852	2925750	99.016	54.182	52.372	48.736	37.542	1.877755	1.680253	0.341236	0.384904	-0.37929
AE003852	2926250	92.628	43.394	50.53	48.494	31.97	1.265699	0.184859	0.09943	0.350424	-1.29176
AE003852	2926750	93.206	32.718	50.276	54.524	31.904	1.319783	-1.29502	0.065168	1.1836	-1.30389
AE003852	2927250	73.654	34.304	42.424	45.28	36.234	-0.55111	-1.07625	-0.96211	-0.0962	-0.59717
AE003852	2927750	70.274	28.772	44.474	43.328	30.95	-0.87552	-1.84354	-0.69526	-0.36724	-1.46255
AE003852	2928250	49.852	27.684	32.032	34.176	21.128	-2.82962	-1.9952	-2.32243	-1.63431	-3.06998
AE003852	2928750	22.53	13.854	24.608	35.288	28.5	-5.44354	-3.912	-3.29377	-1.48148	-1.86583
AE003852	2929250	17.168	17.196	11.95	20.072	16.552	-5.95748	-3.44998	-4.94918	-3.58744	-3.82091
AE003852	2929750	14.974	7.904	11.484	9.55	6.924	-6.16848	-4.73813	-5.01115	-5.04403	-5.39663
AE003852	2930250	6.886	1.94	7.002	6.03	2.59	-6.9431	-5.56526	-5.59799	-5.53198	-6.10666
AE003852	2930750	37.488	17.958	30.998	27.656	16.048	-4.01789	-3.34724	-2.46289	-2.54129	-3.90732
AE003852	2931250	40.508	21.37	50.534	53.674	31.236	-3.73029	-2.87552	0.089299	1.056991	-1.42509
AE003852	2931750	29.094	11.104	37.186	27.84	22.958	-4.82297	-4.29861	-1.65628	-2.51784	-2.78004
AE003852	2932250	123.034	50.304	78.794	67.604	64.892	4.159092	1.130796	3.780609	2.982036	4.075727
AE003852	2932750	98.258	40.736	59.99	54.306	39.88	1.788637	-0.19559	1.321954	1.141414	-0.0156
AE003852	2933250	124.074	68.136	80.492	112.986	58.608	4.256169	3.599165	4.000399	9.25809	3.0455
AE003852	2933750	152.608	89.514	104.384	143.744	97.568	6.983616	6.5597	7.121899	13.51209	9.414958
AE003852	2934250	216.956	113.362	143.642	158.084	115.94	13.13587	9.862402	12.25166	15.49486	12.41784
AE003852	2934750	178.61	113.432	120.552	123.97	88.084	9.467746	9.871158	9.232845	10.77459	7.861463
AE003852	2935250	58.65	40.59	44.494	45.722	32.828	-2.00492	-0.22053	-0.70862	-0.05109	-1.1754
AE003852	2935750	10.738	6.922	8.658	6.748	7.808	-6.58781	-4.88547	-5.39328	-5.44368	-5.26803
AE003852	2936250	66.936	42.73	51.6	40.186	41.066	-1.21492	0.074042	0.217965	-0.81894	0.169033
AE003852	2936750	159.87	84.134	86.926	82.124	94	7.670935	5.808763	4.833832	4.981683	8.823537
AE003852	2937250	139.882	84.738	96.576	84.346	78.816	5.758344	5.891493	6.093974	5.288068	6.3393
AE003852	2937750	146.116	86.29	99.034	121.378	76.81	6.353298	6.105548	6.414157	10.41	6.009947
AE003852	2938250	110.298	63.5	69.982	82.596	58.172	2.926925	2.947527	2.616139	5.043972	2.960909
AE003852	2938750	84.912	48.568	73.94	84.088	61.97	0.498137	0.878067	3.132365	5.24937	3.580633
AE003852	2939250	73.93	35.958	52.274	41.276	49.964	-0.55323	-0.86973	0.299661	-0.67416	1.616067

AE003852	2939750	85.726	45.948	56.946	41.468	47.686	0.573602	0.513237	0.909202	-0.6486	1.242236
AE003852	2940250	100.678	47.664	47.71	49.206	49.994	2.002236	0.750012	-0.29896	0.420854	1.618313
AE003852	2940750	71.408	44.778	45.556	51.818	46.314	-0.79797	0.349275	-0.58154	0.78119	1.015226
AE003852	2941250	82.41	43.46	55.704	39.75	43.208	0.252937	0.165752	0.743683	-0.88928	0.505999
AE003852	2941750	72.676	51.628	45.594	36.516	51.44	-0.67909	1.296316	-0.57871	-1.33766	1.850776
AE003852	2942250	70.814	46.772	31.78	36.232	50.828	-0.85834	0.622677	-2.3852	-1.37795	1.749372
AE003852	2942750	75.146	33.416	47.712	40.718	45.878	-0.44527	-1.22846	-0.30403	-0.75837	0.938612
AE003852	2943250	81.43	36.65	68.702	48.632	39.854	0.15447	-0.7814	2.438195	0.335433	-0.04777
AE003852	2943750	76.706	41.91	53.864	50.242	38.844	-0.29846	-0.05368	0.497877	0.557155	-0.21426
AE003852	2944250	78.87	52.29	52.396	36.05	42.34	-0.09271	1.383314	0.304951	-1.40714	0.356085
AE003852	2944750	85.44	54.164	47.058	47.746	49.238	0.534372	1.641976	-0.39376	0.209859	1.482725
AE003852	2945250	84.268	46.434	52.914	55.58	51.866	0.421109	0.570204	0.37052	1.292597	1.911129
AE003852	2945750	96.482	42.216	51.882	58.818	40.744	1.587915	-0.01505	0.234577	1.739533	0.091116
AE003852	2946250	75.312	36.986	53.402	40.068	42.784	-0.43771	-0.7405	0.432168	-0.85531	0.42337
AE003852	2946750	63.59	39.032	65.394	44.346	47.846	-1.55984	-0.45801	1.998398	-0.2645	1.249785
AE003852	2947250	73.17	48.752	61.244	56.024	47.302	-0.64492	0.887548	1.454948	1.350009	1.1595
AE003852	2947750	84.88	40.1	67.596	53.006	35.688	0.473693	-0.31195	2.284057	0.931503	-0.74097
AE003852	2948250	74.586	32.312	58.778	37.012	37.146	-0.51188	-1.39175	1.130523	-1.28208	-0.50388
AE003852	2948750	90.336	34.278	67.498	41.098	53.452	0.993061	-1.12035	2.269118	-0.71783	2.161167
AE003852	2949250	82.292	40.962	57.988	40.862	34.428	0.222645	-0.19536	1.025143	-0.75148	-0.95099
AE003852	2949750	75.288	38.914	42.476	47.214	33.346	-0.44832	-0.48001	-1.00326	0.126239	-1.12925
AE003852	2950250	103.284	39.058	48.864	58.92	45.014	2.227681	-0.461	-0.16945	1.744622	0.777386
AE003852	2950750	107.194	48.21	48.652	69.558	44.326	2.600397	0.805874	-0.19822	3.21526	0.663553
AE003852	2951250	90.57	52.288	69.722	51.26	45.576	1.009497	1.369854	2.554456	0.682948	0.866625
AE003852	2951750	76.234	47.758	67.784	44.63	42.352	-0.36261	0.741375	2.300104	-0.23524	0.338103
AE003852	2952250	80.362	40.316	60.176	61.456	47.612	0.030956	-0.2905	1.304711	2.091438	1.196895
AE003852	2952750	94.454	38.612	52.628	55.008	52.392	1.377351	-0.5275	0.317159	1.198432	1.977197
AE003852	2953250	96.92	55.822	50.53	39.242	41.952	1.61198	1.855649	0.041896	-0.98361	0.268706
AE003852	2953750	82.532	48.654	53.552	47.846	40.322	0.234904	0.861731	0.435791	0.20565	0.000837
AE003852	2954250	98.342	60.824	54.112	48.188	41.328	1.745586	2.546689	0.507914	0.251959	0.164009
AE003852	2954750	75.908	58.378	55.966	60.084	34.674	-0.40091	2.206905	0.749157	1.896626	-0.92539
AE003852	2955250	68.56	45.478	45.398	54.922	25.964	-1.10477	0.418937	-0.63309	1.181523	-2.35099
AE003852	2955750	86.304	42.742	61.388	49.544	36.392	0.590858	0.038979	1.455655	0.436538	-0.64712
AE003852	2956250	104.348	45.968	54.172	56.196	38.758	2.315173	0.484933	0.511494	1.355761	-0.26156
AE003852	2956750	101.17	58.16	43.478	61.27	43.442	2.010081	2.172939	-0.88722	2.056686	0.503045
AE003852	2957250	97.964	57.456	49.11	46.768	40.998	1.702311	2.074473	-0.15221	0.049504	0.10207
AE003852	2957750	108.61	60.588	61.72	41.474	42.884	2.719173	2.507405	1.494784	-0.68386	0.409141

AE003852	2958250	107.448	50.698	55.684	49.156	49.526	2.606866	1.136409	0.704843	0.377851	1.49392
AE003852	2958750	88.086	39.786	48.544	55.156	39.982	0.754139	-0.37616	-0.22938	1.206877	-0.06806
AE003852	2959250	101.128	55.21	38.27	53.142	35.062	2.000125	1.75957	-1.57321	0.927262	-0.87391
AE003852	2959750	103.572	52.094	35.468	49.7	34.464	2.23265	1.326971	-1.94048	0.4501	-0.97303
AE003852	2960250	84.148	69.384	51.178	54.538	31.106	0.373994	3.721199	0.11167	1.118377	-1.52346
AE003852	2960825	61.279	46.105	34.727	37.783	31.282	-1.81428	0.495296	-2.03962	-1.20063	-1.49621
AE003853	250	45.8	34.94	30.3	30.064	23.482	-1.18185	0.694265	-0.65479	-0.73871	-1.02604
AE003853	750	67.466	38.018	33.166	33.076	29.906	0.916143	1.132162	-0.29637	-0.2635	0.234115
AE003853	1250	71.368	39.388	40.832	40.154	22.802	1.295087	1.327633	0.660266	0.851593	-1.15514
AE003853	1750	65.52	30.784	44.356	32.584	23.896	0.730508	0.107441	1.100692	-0.33854	-0.93884
AE003853	2250	55.184	36.57	47.484	30.456	24.368	-0.26838	0.929699	1.491765	-0.67223	-0.84437
AE003853	2750	64.242	29.628	43.528	51.606	27.326	0.609517	-0.0546	0.999964	2.657433	-0.26302
AE003853	3250	78.712	31.026	35.67	34.784	33.198	2.011142	0.144849	0.021861	0.011276	0.889029
AE003853	3750	55.334	30.546	42.008	34.154	17.702	-0.24984	0.077739	0.812993	-0.08667	-2.14376
AE003853	4250	59.214	25.458	47.15	37.84	21.026	0.126973	-0.64341	1.455069	0.494605	-1.49073
AE003853	4750	63.892	35.61	39.97	25.862	29.638	0.581012	0.79854	0.561465	-1.38923	0.197932
AE003853	5250	60.246	45.862	38.804	31.358	34.222	0.229524	2.254682	0.41738	-0.5231	1.097727
AE003853	5750	47.174	34.492	27.89	28.814	26.324	-1.03413	0.641896	-0.94159	-0.92227	-0.44703
AE003853	6250	50.658	33.436	35.226	33.912	20.17	-0.69564	0.493032	-0.02608	-0.11878	-1.65022
AE003853	6750	60.382	32.418	26.734	33.05	26.94	0.246709	0.349562	-1.0832	-0.25324	-0.32231
AE003853	7250	64.654	37.884	31.124	35.08	27.696	0.661458	1.126401	-0.53484	0.067427	-0.17221
AE003853	7750	51.456	33.198	32.824	30.676	27.856	-0.61439	0.462311	-0.32174	-0.62445	-0.13884
AE003853	8250	58.64	40.896	34.514	33.99	32.658	0.082157	1.55595	-0.10988	-0.10172	0.803651
AE003853	8750	61.544	36.006	40.796	35.95	35.174	0.364523	0.862906	0.674269	0.207931	1.298437
AE003853	9250	71.178	22.284	38.972	42.41	28.582	1.298161	-1.08371	0.448178	1.225765	0.00946
AE003853	9750	60.776	27.938	34.776	27.554	27.16	0.292885	-0.28019	-0.07353	-1.11099	-0.267
AE003853	10250	46.894	27.892	34.708	34.654	31.494	-1.04916	-0.2857	-0.08077	0.007561	0.583839
AE003853	10750	47.092	32	32.744	43.668	35.846	-1.02865	0.298392	-0.32431	1.42733	1.438198
AE003853	11250	54.244	36.89	39.914	35.132	24.422	-0.3352	0.993476	0.57051	0.085178	-0.79711
AE003853	11750	58.388	28.932	43.956	37.694	22.412	0.067159	-0.13503	1.075493	0.489567	-1.18872
AE003853	12250	64.876	26.204	37.266	29.716	20.33	0.696354	-0.52121	0.242957	-0.76477	-1.59443
AE003853	12750	65.682	26.144	32.442	39.51	25.288	0.775693	-0.5287	-0.35702	0.777751	-0.62139
AE003853	13250	58.9	35.006	32.946	40.12	30.358	0.12073	0.730149	-0.29298	0.874946	0.373585
AE003853	13750	43.882	35.812	41.154	24.928	34.432	-1.33124	0.845569	0.731213	-1.51469	1.173499
AE003853	14250	47.674	30.564	39.822	28.204	36.176	-0.96294	0.101711	0.56644	-0.99794	1.517092
AE003853	14750	47.558	30.124	45.862	33.908	32.836	-0.97283	0.04028	1.320432	-0.09908	0.865005
AE003853	15250	40.304	34.328	25.782	31.87	35.988	-1.67347	0.637996	-1.18089	-0.41861	1.484349

AE003853	15750	55.916	43.342	28.192	36.982	32.964	-0.16133	1.918422	-0.8793	0.387084	0.894149
AE003853	16250	49.466	29.506	40.766	38.826	40.716	-0.78416	-0.04438	0.68902	0.678479	2.414384
AE003853	16750	61.278	32.4	42.596	39.15	35.572	0.360242	0.367404	0.918324	0.730664	1.408991
AE003853	17250	46.14	19.844	24.148	25.554	37.004	-1.10334	-1.41372	-1.3796	-1.4078	1.69148
AE003853	17750	51.248	15.608	29.02	34.376	34.516	-0.60769	-2.01394	-0.77118	-0.01825	1.206254
AE003853	18250	56.42	16.81	40.736	36.666	32.538	-0.10585	-1.84231	0.690212	0.343334	0.820908
AE003853	18750	58.756	27.52	45.444	26.014	32.624	0.121549	-0.32116	1.278198	-1.33182	0.839789
AE003853	19250	34.308	23.652	42.922	26.226	32.138	-2.24298	-0.86915	0.965116	-1.29726	0.746646
AE003853	19750	45.87	29.24	30.816	36.742	23.65	-1.12277	-0.07499	-0.54241	0.358882	-0.91366
AE003853	20250	60.922	30.69	37.9	35.662	22.082	0.33518	0.131834	0.341694	0.190114	-1.2187
AE003853	20750	59.042	27.906	30.496	19.606	28.932	0.154591	-0.26229	-0.57983	-2.33549	0.124878
AE003853	21250	48.728	25.922	42.6	26.736	27.868	-0.84217	-0.54287	0.929916	-1.21222	-0.08146
AE003853	21750	45.614	23.772	36.524	25.284	30.192	-1.14217	-0.84702	0.173902	-1.43953	0.37572
AE003853	22250	51.176	33.512	32.998	27.876	26.566	-0.60259	0.536455	-0.26431	-1.03042	-0.33238
AE003853	22750	60.738	28.956	39.37	35.952	26.138	0.324081	-0.10918	0.531062	0.241732	-0.41416
AE003853	23250	74.108	33.284	43.576	44.456	26.572	1.619257	0.506133	1.056485	1.58124	-0.32713
AE003853	23750	74.728	37.524	39.344	46.192	30.572	1.680597	1.108959	0.530287	1.855638	0.458293
AE003853	24250	59.812	35.772	39.622	32.384	31.464	0.238494	0.861308	0.566166	-0.31619	0.635025
AE003853	24750	53.196	30.548	34.774	20.628	31.692	-0.40041	0.120858	-0.0368	-2.16509	0.681716
AE003853	25250	59.242	27.218	29.892	24.264	28.842	0.186017	-0.35077	-0.64401	-1.59168	0.125593
AE003853	25750	57.8	31.644	26.248	33.234	19.074	0.047814	0.278458	-1.09693	-0.17884	-1.78539
AE003853	26250	53.766	29.234	27.648	41.902	17.778	-0.34122	-0.06259	-0.92121	1.186482	-2.03717
AE003853	26750	48.582	31.612	31.1	36.7	13.976	-0.84154	0.275956	-0.48976	0.369016	-2.77974
AE003853	27250	68.756	28.44	35.816	34.924	28.736	1.112066	-0.17324	0.099224	0.090715	0.112985
AE003853	27750	63.902	23.014	40.422	38.4	33.93	0.643679	-0.94236	0.674498	0.638944	1.132246
AE003853	28250	61.166	26.706	43.802	41.862	28.364	0.380253	-0.41732	1.096977	1.18497	0.044206
AE003853	28750	66.446	29.19	43.154	34.694	30.22	0.892548	-0.06373	1.01745	0.058106	0.409734
AE003853	29250	61.884	30.05	46.832	32.734	33.664	0.452417	0.059352	1.477069	-0.24915	1.086265
AE003853	29750	57.044	28.612	33.256	27.22	22.89	-0.01462	-0.14373	-0.21366	-1.11572	-1.02174
AE003853	30250	42.628	26.382	35.216	18.204	20.964	-1.40833	-0.45923	0.031842	-2.53341	-1.3969
AE003853	30750	52.766	23.426	44.448	20.478	23.912	-0.42592	-0.87777	1.183651	-2.17434	-0.81751
AE003853	31250	51.174	21.664	28.964	31.458	31.128	-0.57864	-1.12684	-0.74487	-0.44518	0.597752
AE003853	31750	39.052	21.974	27.638	24.594	20.388	-1.75036	-1.08182	-0.9089	-1.5242	-1.50359
AE003853	32250	43.898	38.144	30.706	36.502	19.994	-1.28007	1.214297	-0.5253	0.351011	-1.57872
AE003853	32750	56.268	39.412	37.642	40.01	24.618	-0.08166	1.395291	0.340356	0.904277	-0.67109
AE003853	33250	52.75	46.158	34.852	36.64	23.354	-0.42076	2.353807	-0.00613	0.375121	-0.9166
AE003853	33750	46.652	30.306	37.974	43.29	28.154	-1.00953	0.104867	0.384198	1.422857	0.025496

AE003853	34250	53.228	24.092	29.098	40.996	31.058	-0.37182	-0.7761	-0.72078	1.063036	0.59627
AE003853	34750	68.782	30.762	27.018	30.722	30.48	1.134701	0.171629	-0.97877	-0.55263	0.485109
AE003853	35250	50.584	30.112	19.92	21.756	29.916	-0.62501	0.080391	-1.86216	-1.96246	0.37669
AE003853	35750	60.394	29.696	25.522	25.64	29.314	0.325665	0.022365	-1.16275	-1.35002	0.260829
AE003853	36250	65.884	42.53	40.814	34.728	35	0.858281	1.844985	0.744308	0.081396	1.376446
AE003853	36750	63.132	37.254	51.114	36.8	24.752	0.593308	1.097153	2.02922	0.408672	-0.62854
AE003853	37250	56.01	34.71	45.218	33.332	22.926	-0.09456	0.737089	1.29564	-0.13591	-0.98412
AE003853	37750	41.772	30.718	33.822	33.648	34.692	-1.47105	0.171503	-0.1234	-0.08498	1.322239
AE003853	38250	47.782	26.576	26.094	29.418	28.67	-0.88811	-0.41537	-1.0853	-0.74948	0.144894
AE003853	38750	69.472	54.878	28.248	36.888	25.782	1.212204	3.602703	-0.81562	0.427305	-0.41867
AE003853	39250	72.29	44.436	35.338	43.19	24.286	1.486247	2.121633	0.069234	1.420275	-0.70962
AE003853	39750	58.426	36.952	40.01	35.282	31.356	0.145948	1.060408	0.652734	0.176954	0.677049
AE003853	40250	60.47	31.444	49.236	37.754	29.438	0.345091	0.279647	1.803795	0.567179	0.303455
AE003853	40750	46.124	29.944	47.116	43.97	29.33	-1.04185	0.067764	1.540814	1.546615	0.284342
AE003853	41250	55.588	34.032	37.846	34.566	36.7	-0.12467	0.649016	0.386735	0.067861	1.729763
AE003853	41750	54.994	27.578	25.248	31.602	24.928	-0.18081	-0.26602	-1.18211	-0.3974	-0.5737
AE003853	42250	65.304	24.304	36.48	35.636	33.302	0.818249	-0.72969	0.218957	0.238644	1.068355
AE003853	42750	45.262	31.344	34.032	32.696	30.826	-1.1199	0.270553	-0.0849	-0.22284	0.585479
AE003853	43250	36.66	28.064	21.642	28.724	30.078	-1.95099	-0.19398	-1.62783	-0.84674	0.441024
AE003853	43750	49.562	30.432	29.352	22.504	29.934	-0.7011	0.143148	-0.6657	-1.82441	0.41486
AE003853	44250	47.816	28.086	35.016	13.808	23.47	-0.86873	-0.18881	0.04143	-3.19174	-0.84905
AE003853	44750	49.752	17.41	37.88	29.896	30.314	-0.68003	-1.7031	0.399601	-0.65871	0.493357
AE003853	45250	59.75	15.526	29.178	38.776	31.104	0.288828	-1.96948	-0.68369	0.739975	0.650113
AE003853	45750	48.152	26.812	35.154	29.272	30.14	-0.83219	-0.36658	0.062327	-0.75452	0.463356
AE003853	46250	54.394	31.688	47.54	32.878	27.674	-0.2268	0.326518	1.607216	-0.18583	-0.01756
AE003853	46750	64.928	26.896	41.572	28.484	20.758	0.793935	-0.35262	0.864662	-0.87613	-1.36999
AE003853	47250	65.396	25.906	44.054	29.322	18.426	0.840565	-0.49211	1.175224	-0.74306	-1.82467
AE003853	47750	54.814	19.368	45.35	42.206	9.414	-0.18213	-1.41907	1.337976	1.285749	-3.58759
AE003853	48250	61.444	18.284	31.074	39.304	17.102	0.460807	-1.57191	-0.44	0.830245	-2.07989
AE003853	48750	65.01	29.418	29.326	32.792	21.2	0.807235	0.009424	-0.65662	-0.19338	-1.27528
AE003853	49250	54.434	28.808	34.51	31.848	22.57	-0.21488	-0.07614	-0.00931	-0.34075	-1.00493
AE003853	49750	56.832	30.25	28.456	27.828	26.006	0.01852	0.129554	-0.76258	-0.9722	-0.32997
AE003853	50250	62.12	30.294	34.2	27.542	20.652	0.531589	0.136819	-0.04548	-1.01601	-1.37649
AE003853	50750	59.336	25.9	39.9	29.678	29.558	0.263519	-0.48583	0.666143	-0.67866	0.369753
AE003853	51250	64.098	24.42	39.276	33.12	42.218	0.725686	-0.69487	0.589607	-0.13578	2.851199
AE003853	51750	66.838	27.058	40.462	34.91	35.864	0.992181	-0.31942	0.73865	0.147113	1.608833
AE003853	52250	62.856	33.644	39.172	44.402	31.962	0.608178	0.616382	0.579111	1.642107	0.84668

AE003853	52750	74.328	29.568	37.606	39.91	29.526	1.719682	0.038873	0.385174	0.936377	0.371637
AE003853	53250	69.782	23.102	33.22	30.426	33.824	1.2811	-0.87786	-0.16022	-0.55497	1.215421
AE003853	53750	62.762	22.89	30.354	27.856	35.84	0.603106	-0.90693	-0.51617	-0.95822	1.612284
AE003853	54250	64.426	28.788	29.402	31.664	32.088	0.765475	-0.06878	-0.63359	-0.35774	0.879508
AE003853	54750	40.348	24.396	28.126	29.322	29.06	-1.56325	-0.69114	-0.79138	-0.72512	0.288525
AE003853	55250	44.676	15.878	27.538	29.008	27.066	-1.14308	-1.89912	-0.86343	-0.77334	-0.09995
AE003853	55750	53.104	22.904	18.202	34.49	24.504	-0.32615	-0.90087	-2.02573	0.090584	-0.59967
AE003853	56250	61.296	33.164	28.394	24.77	27.812	0.467945	0.556412	-0.75428	-1.4379	0.050223
AE003853	56750	59.338	28.91	33.246	19.626	25.638	0.279808	-0.04636	-0.14835	-2.24624	-0.37351
AE003853	57250	74.59	29.712	46.972	25.75	30.61	1.757108	0.068491	1.563545	-1.28128	0.602276
AE003853	57750	73.134	30.568	37.476	34.33	33.184	1.61755	0.191007	0.381299	0.070187	1.108421
AE003853	58250	64.934	40.356	35.81	25.294	29.432	0.825365	1.581291	0.1749	-1.35065	0.375645
AE003853	58750	64.804	35.166	27.544	31.012	32.35	0.814126	0.845666	-0.85405	-0.44959	0.949161
AE003853	59250	61.954	34.656	34.898	32.23	24.87	0.539668	0.774299	0.063703	-0.25671	-0.51373
AE003853	59750	67.66	35.76	41.514	37.716	25.496	1.093188	0.932015	0.889482	0.607841	-0.38909
AE003853	60250	54.876	27.788	32.28	31.016	30.402	-0.1426	-0.19847	-0.26011	-0.44537	0.573767
AE003853	60750	43.248	24.874	34.136	23.138	31.106	-1.26652	-0.61105	-0.02757	-1.68397	0.713681
AE003853	61250	53.05	33.032	39.31	25.928	33.452	-0.31662	0.547875	0.618497	-1.2437	1.175173
AE003853	61750	69.258	38.292	36.73	41.784	31.764	1.253194	1.295475	0.298187	1.252824	0.846623
AE003853	62250	76.896	32.86	35.71	37.068	18.124	1.993676	0.525502	0.172298	0.511842	-1.82268
AE003853	62750	57.918	36.798	33.45	45.366	24.692	0.158487	1.085463	-0.10813	1.818931	-0.53432
AE003853	63250	48.248	26.268	32.928	37.64	28.678	-0.77595	-0.4081	-0.17196	0.604252	0.248357
AE003853	63750	55.33	27.562	39.708	42.102	21.62	-0.08927	-0.22341	0.674263	1.307653	-1.13189
AE003853	64250	69.708	31.222	40.52	30.896	25.778	1.303448	0.297091	0.776694	-0.45469	-0.31552
AE003853	64750	60.48	24.226	37.25	36.946	26.596	0.411781	-0.69487	0.37039	0.498622	-0.15328
AE003853	65250	55.118	30.93	45.996	34.21	31.606	-0.10577	0.257686	1.461629	0.069242	0.829945
AE003853	65750	62.214	34.478	42.012	29.246	31.766	0.582266	0.762292	0.966339	-0.71077	0.863318
AE003853	66250	53.628	30.62	30.628	36.47	23.922	-0.24727	0.215725	-0.45121	0.4273	-0.67086
AE003853	66750	52.02	35.982	22.248	33.224	13.28	-0.40154	0.977803	-1.49437	-0.08234	-2.75301
AE003853	67250	59.156	28.298	29.226	38.274	24.87	0.290362	-0.11181	-0.62347	0.713595	-0.48112
AE003853	67750	55.96	28.198	38.586	35.152	33.988	-0.01758	-0.12498	0.54429	0.223468	1.306639
AE003853	68250	71.208	24.802	38.07	31.47	32.77	1.459335	-0.60598	0.481214	-0.35479	1.070137
AE003853	68750	65.442	27.59	47.834	28.352	30.306	0.902692	-0.20924	1.699326	-0.84429	0.589611
AE003853	69250	65.206	27.478	38.488	19.712	27.546	0.881195	-0.22412	0.535774	-2.2028	0.051114
AE003853	69750	56.946	28.362	42.776	28.658	28.748	0.083203	-0.09763	1.071417	-0.79374	0.288559
AE003853	70250	65.004	22.338	50.598	39.28	44.056	0.86433	-0.95162	2.047498	0.87909	3.288605
AE003853	70750	59.188	26.18	44.696	39.506	37.152	0.302848	-0.40529	1.31317	0.915852	1.938523

AE003853	71250	56.542	34.55	44.88	36.62	39.078	0.048132	0.78373	1.337334	0.462866	2.31776
AE003853	71750	61.178	28.352	30.084	37.866	34.572	0.498106	-0.09497	-0.50545	0.66015	1.437317
AE003853	72250	54.858	37.364	29.602	39.228	28.106	-0.11215	1.185176	-0.56428	0.87569	0.173015
AE003853	72750	49.914	31.184	37.276	38.296	30.576	-0.58925	0.309035	0.393352	0.730213	0.658793
AE003853	73250	59.726	28.006	40.508	35.218	24.818	0.361617	-0.14102	0.797386	0.247011	-0.46685
AE003853	73750	73.874	24.332	38.24	28.764	22.594	1.732082	-0.66147	0.51596	-0.76749	-0.90037
AE003853	74250	68.594	24.73	34.93	30.302	37.774	1.22247	-0.60396	0.10467	-0.52425	2.074605
AE003853	74750	66.01	33.136	34.114	29.462	28.09	0.973753	0.590173	0.004206	-0.65525	0.180072
AE003853	75250	63.164	33.852	37.112	23.378	33.908	0.699683	0.692818	0.379076	-1.61152	1.321541
AE003853	75750	62.804	23.966	30.412	21.362	26.106	0.666186	-0.70934	-0.45471	-1.92759	-0.20441
AE003853	76250	58.712	22.792	42.51	31.78	24.924	0.271539	-0.87495	1.05429	-0.28687	-0.43386
AE003853	76750	58.614	31.7	46.36	37.208	26.848	0.263396	0.390433	1.535344	0.568557	-0.05502
AE003853	77250	66.828	29.184	37.75	39.922	23.202	1.059619	0.034343	0.46352	0.996868	-0.76703
AE003853	77750	45.61	28.876	37.676	39.494	25.452	-0.99234	-0.00835	0.45553	0.930707	-0.32434
AE003853	78250	67.186	29.946	38.792	31.31	34.206	1.096946	0.144538	0.595849	-0.35605	1.39213
AE003853	78750	67.092	22.012	41.962	44.7	33.458	1.08919	-0.98056	0.992156	1.75239	1.247675
AE003853	79250	71.836	22.186	31.77	32.444	26.588	1.549616	-0.95484	-0.27683	-0.17519	-0.09575
AE003853	79750	71.68	28.028	30.55	40.938	29.568	1.535861	-0.12463	-0.42765	1.16274	0.489911
AE003853	80250	68.924	28.894	27.558	39.09	40.234	1.2705	-0.0007	-0.7993	0.873108	2.580841
AE003853	80750	55.662	31.972	30.442	35.982	28.92	-0.01154	0.437198	-0.43864	0.385184	0.367079
AE003853	81250	58.512	38.856	46.968	32.476	27.804	0.265597	1.415301	1.622213	-0.16537	0.150553
AE003853	81750	54.598	35.474	49.884	41.61	29.978	-0.11183	0.936296	1.986864	1.273279	0.578359
AE003853	82250	45.468	34.638	37.482	34.438	27.96	-0.99401	0.818658	0.442446	0.145786	0.18518
AE003853	82750	45.12	33.17	38.098	28.776	25.412	-1.02634	0.611316	0.52045	-0.74407	-0.3118
AE003853	83250	53.29	24.58	36.252	29.678	26.068	-0.23438	-0.60689	0.291617	-0.60092	-0.18128
AE003853	83750	70.226	24.072	38.788	36.878	26.412	1.405885	-0.67797	0.60891	0.533367	-0.11188
AE003853	84250	77.446	29.812	36.7	40.796	27.424	2.105917	0.137757	0.349917	1.151156	0.088359
AE003853	84750	60.436	34.834	36.044	30.692	23.364	0.461175	0.851576	0.269392	-0.43776	-0.70474
AE003853	85250	56.408	28.552	35.84	20.56	28.516	0.07272	-0.03904	0.245201	-2.03108	0.306298
AE003853	85750	43.2	23.912	29.764	28.02	35.18	-1.2041	-0.6966	-0.51081	-0.85587	1.613453
AE003853	86250	56.008	30.908	42.956	35.33	32.254	0.036694	0.297397	1.134527	0.295731	1.042446
AE003853	86750	55.176	26.634	46.73	26.914	24.288	-0.04248	-0.30821	1.60611	-1.02754	-0.51562
AE003853	87250	61.13	30.586	41.13	19.254	38.032	0.53504	0.253734	0.909419	-2.23183	2.178119
AE003853	87750	52.528	32.714	34.342	27.178	28.352	-0.29605	0.556792	0.06467	-0.9836	0.284369
AE003853	88250	54.948	27.634	43.648	24.546	20.806	-0.06052	-0.16322	1.225701	-1.39661	-1.19145
AE003853	88750	49.642	29.158	48.228	25.76	21.152	-0.57265	0.05411	1.797735	-1.20436	-1.12165
AE003853	89250	60.31	23.61	32.012	35.22	24.914	0.461053	-0.73233	-0.22202	0.285596	-0.38284

AE003853	89750	80.282	38.482	38.272	29.016	26.43	2.395115	1.379555	0.559393	-0.68956	-0.08389
AE003853	90250	61.278	34.026	56.406	36.814	25.524	0.55741	0.748111	2.82065	0.538843	-0.25929
AE003853	90750	47.928	32.57	36.946	35.542	24.564	-0.73315	0.542473	0.3966	0.339858	-0.44527
AE003853	91250	48.516	29.6	46.474	30.956	26.79	-0.67491	0.121944	1.585299	-0.38066	-0.00728
AE003853	91750	61.114	28.334	46.36	38.068	40.928	0.545564	-0.05673	1.572323	0.739778	2.76363
AE003853	92250	61.086	26.294	35.288	33.954	37.532	0.544195	-0.34525	0.193662	0.093536	2.100575
AE003853	92750	55.71	26.334	30.88	34.428	30.774	0.025293	-0.33856	-0.35447	0.169327	0.779087
AE003853	93250	53.892	27.128	30.804	43.966	21.678	-0.1493	-0.22484	-0.36271	1.67156	-1.00029
AE003853	93750	49.708	20.902	30.242	26.92	22.906	-0.55285	-1.10751	-0.43152	-1.00985	-0.75775
AE003853	94250	46.334	26.652	27.014	36.076	21.996	-0.87801	-0.29036	-0.83259	0.432268	-0.93393
AE003853	94750	39.888	31.184	32.658	40.29	20.856	-1.50046	0.353909	-0.12795	1.09664	-1.15516
AE003853	95250	41.636	24.108	30.746	51.938	16.482	-1.32996	-0.64941	-0.36501	2.930933	-2.00975
AE003853	95750	46.424	32.05	40.488	57.96	16.592	-0.86528	0.478865	0.850362	3.879838	-1.98617
AE003853	96250	48.766	38.23	51.914	39.866	14.646	-0.6373	1.357046	2.275607	1.033501	-2.36525
AE003853	96750	52.926	24.342	35.13	30.386	25.1	-0.23339	-0.61313	0.185065	-0.45721	-0.31584
AE003853	97250	52.564	24.904	26.6	31.042	26.362	-0.26708	-0.53235	-0.87679	-0.35278	-0.06664
AE003853	97750	52.018	20.97	27.87	32.416	15.712	-0.31857	-1.0897	-0.71728	-0.13535	-2.15036
AE003853	98250	64.264	37.364	30.04	33.014	24.302	0.867831	1.238209	-0.4456	-0.04004	-0.46601
AE003853	98750	50.302	32.454	28.282	27.908	30.982	-0.48195	0.542326	-0.66346	-0.8424	0.844278
AE003853	99250	42.452	28.456	29.1	27.786	32.856	-1.24027	-0.02411	-0.56029	-0.86041	1.213331
AE003853	99750	42.04	29.788	33.154	27.218	32.084	-1.2788	0.165966	-0.05381	-0.9486	1.064176
AE003853	100250	40.482	33.07	37.722	29.832	20.674	-1.42822	0.632818	0.516732	-0.53603	-1.16839
AE003853	100750	49.368	28.452	28.564	27.97	20.262	-0.56697	-0.02162	-0.62339	-0.82786	-1.24704
AE003853	101250	60.564	27.5	36.292	30.892	18.914	0.517824	-0.15572	0.340978	-0.36682	-1.509
AE003853	101750	67.056	26.254	52.66	27.3	23.924	1.147406	-0.33155	2.38214	-0.93091	-0.52577
AE003853	102250	79.868	29.386	54.876	25.16	27.864	2.388584	0.114007	2.659551	-1.2665	0.247896
AE003853	102750	68.344	27.68	43.828	42.358	28.888	1.27473	-0.12711	1.283881	1.441225	0.45048
AE003853	103250	49.134	24.162	39.638	36.096	25.582	-0.58291	-0.62542	0.762917	0.456943	-0.19495
AE003853	103750	49.024	26.888	37.302	35.354	27.416	-0.59221	-0.23749	0.473016	0.341367	0.166271
AE003853	104250	54.35	23.202	43.516	36.094	23.63	-0.07547	-0.75964	1.248694	0.45902	-0.57316
AE003853	104750	54.572	24.402	41.756	39.122	30.938	-0.05264	-0.5883	1.03058	0.936745	0.860116
AE003853	105250	49.478	22.16	32.538	33.29	31.478	-0.54426	-0.9055	-0.11702	0.020134	0.967911
AE003853	105750	65.406	27.354	38.538	37.938	30.416	0.998463	-0.16727	0.631988	0.752806	0.76196
AE003853	106250	56.482	29.154	40.818	30.062	29.904	0.136215	0.089237	0.917375	-0.48548	0.663725
AE003853	106750	51.886	30.522	31.85	23.742	19.558	-0.30721	0.284425	-0.19907	-1.47889	-1.36046
AE003853	107250	58.97	32.164	32.044	32.366	29.55	0.379665	0.518502	-0.17366	-0.1205	0.598472
AE003853	107750	53.02	31.106	28.71	37.72	26.628	-0.19478	0.369355	-0.58794	0.723282	0.028248

AE003853	108250	66.488	21.966	30.864	33.644	22.09	1.109876	-0.92692	-0.31825	0.08302	-0.85846
AE003853	108750	43.772	23.778	39.476	21.272	21.666	-1.08704	-0.66871	0.756286	-1.86282	-0.93946
AE003853	109250	46.266	31.628	27.06	24.82	25.91	-0.84436	0.446504	-0.78988	-1.30326	-0.10626
AE003853	109750	57.776	31.718	29.828	35.294	27.694	0.270826	0.460299	-0.44367	0.346276	0.245171
AE003853	110250	49.818	29.52	37.88	28.3	29.116	-0.49794	0.149344	0.561076	-0.75321	0.525702
AE003853	110750	54.95	27.526	31.066	35.746	28.604	3.26E-05	-0.13266	-0.28691	0.419801	0.427467
AE003853	111250	53.976	27.102	28.046	25.27	25.704	-0.09288	-0.19182	-0.66206	-1.22766	-0.13845
AE003853	111750	55.638	27.544	45.51	25.874	23.816	0.069294	-0.12806	1.515694	-1.13141	-0.50617
AE003853	112250	39.348	29.89	36.77	35.73	22.058	-1.50577	0.20594	0.427668	0.420871	-0.84843
AE003853	112750	45.57	30.228	32.31	40.926	28.14	-0.90232	0.254934	-0.12694	1.239784	0.344746
AE003853	113250	60.524	34.32	31.862	23.922	19.224	0.546143	0.836754	-0.18155	-1.43501	-1.39938
AE003853	113750	59.226	31.92	39.128	30.942	22.258	0.421875	0.497128	0.725242	-0.32905	-0.80314
AE003853	114250	69.49	17.874	36.164	42.16	21.748	1.416479	-1.49548	0.357074	1.437572	-0.90099
AE003853	114750	55.148	27.826	42.298	29.606	21.722	0.029924	-0.08192	1.122781	-0.53691	-0.90404
AE003853	115250	51.438	27.148	39.496	31.82	29.838	-0.32776	-0.17713	0.774803	-0.18729	0.687482
AE003853	115750	63.714	33.862	33.548	38.932	27.348	0.861551	0.776846	0.034742	0.933155	0.201864
AE003853	116250	59.808	30.162	36.85	36.99	22.702	0.484903	0.252705	0.4475	0.62873	-0.706
AE003853	116750	55.46	44.72	30.438	31.058	36.03	0.065481	2.320021	-0.35039	-0.30362	1.906273
AE003853	117250	64.034	41.796	33.178	27.346	40.35	0.896542	1.906022	-0.00767	-0.8866	2.754365
AE003853	117750	58.896	34.234	25.014	35.932	33.878	0.400671	0.833726	-1.02391	0.465816	1.488889
AE003853	118250	53.006	28.79	38.624	23.592	27.552	-0.16797	0.062049	0.673522	-1.47499	0.252006
AE003853	118750	46.204	32.436	35.624	31.604	24.17	-0.82487	0.580566	0.300868	-0.21291	-0.40831
AE003853	119250	54.248	31.672	36.556	39.446	24.942	-0.0451	0.473147	0.418255	1.022417	-0.25508
AE003853	119750	58.622	27.606	35.474	42.872	25.872	0.379521	-0.10294	0.284638	1.562778	-0.0709
AE003853	120250	52.106	25.458	32.624	27.216	23.41	-0.2497	-0.4068	-0.06932	-0.89988	-0.55104
AE003853	120750	40.732	24.18	25.018	32.504	20.932	-1.34904	-0.58717	-1.01602	-0.06649	-1.0343
AE003853	121250	46.776	28.528	26.91	44.452	28.086	-0.76281	0.030981	-0.77899	1.815018	0.368815
AE003853	121750	50.388	29.85	32.434	29.736	26.118	-0.41193	0.21964	-0.0893	-0.49971	-0.01457
AE003853	122250	49.14	31.616	37.848	27.938	29.416	-0.53136	0.471318	0.586671	-0.78147	0.633366
AE003853	122750	48.232	30.006	27.526	28.134	20.806	-0.61789	0.243821	-0.69852	-0.74943	-1.05083
AE003853	123250	45.138	21.928	35.67	37.354	25.234	-0.91596	-0.90171	0.317694	0.702758	-0.18159
AE003853	123750	42.766	32.31	35.228	36.844	25.376	-1.14416	0.57288	0.263841	0.623693	-0.15174
AE003853	124250	63.516	26.858	33.836	33.572	29.65	0.865192	-0.19993	0.09159	0.10996	0.687346
AE003853	124750	67.134	29.768	40.78	32.418	35.52	1.216653	0.21412	0.958247	-0.07045	1.838999
AE003853	125250	51.454	19.426	39.13	36.774	32.018	-0.29938	-1.25276	0.753842	0.616264	1.155184
AE003853	125750	46.658	21.828	37.434	26.512	38.998	-0.76216	-0.91081	0.543703	-0.99752	2.524226
AE003853	126250	54.196	26.874	36.736	19.042	27.26	-0.03135	-0.19358	0.457945	-2.17191	0.227426

AE003853	126750	70.73	39.482	26.69	30.948	18.296	1.570008	1.596961	-0.79285	-0.29701	-1.5261
AE003853	127250	57.13	35.282	25.926	33.716	24.276	0.255257	1.001852	-0.88683	0.139797	-0.3529
AE003853	127750	67.192	29.202	35.26	32.204	32.384	1.230313	0.139904	0.27769	-0.09696	1.237054
AE003853	128250	75.654	25.914	31.654	29.4	24.616	2.050535	-0.32576	-0.17049	-0.53704	-0.28224
AE003853	128750	55.182	23.518	41.02	33.244	17.304	0.07077	-0.66482	0.998019	0.069104	-1.71223
AE003853	129250	56.18	30.602	36.408	35.264	22.812	0.168689	0.341673	0.424462	0.388197	-0.63147
AE003853	129750	46.148	27.656	25.45	36.718	27.93	-0.80078	-0.07545	-0.93999	0.618215	0.372908
AE003853	130250	47.826	27.112	27.054	41.244	35.01	-0.63706	-0.15164	-0.73885	1.331688	1.761534
AE003853	130750	44.786	28.184	45.502	27.948	32.642	-0.9299	0.001533	1.561537	-0.75957	1.299809
AE003853	131250	56.188	23.262	31.642	39.07	26.68	0.174828	-0.69605	-0.16459	0.991948	0.134214
AE003853	131750	51.9	37.584	30.282	36.934	24.286	-0.23879	1.337766	-0.33285	0.656992	-0.3326
AE003853	132250	51.47	43.542	38.728	37.38	34.392	-0.27906	2.184437	0.720998	0.728377	1.648653
AE003853	132750	58.528	31.282	32.144	36	39.824	0.405298	0.445328	-0.09833	0.512396	2.714526
AE003853	133250	54.522	32.198	28.788	34.566	32.72	0.018972	0.576361	-0.51535	0.287917	1.325275
AE003853	133750	55.316	33.622	37.246	29.986	29.42	0.09715	0.779497	0.539995	-0.43166	0.681022
AE003853	134250	51.944	25.104	25.712	28.69	19.096	-0.22782	-0.42849	-0.89624	-0.63442	-1.33885
AE003853	134750	59.008	26.112	26.562	29.654	25.722	0.457113	-0.2844	-0.78908	-0.48152	-0.03914
AE003853	135250	42	32.092	30.318	33.77	34.722	-1.18744	0.565395	-0.31974	0.167431	1.72551
AE003853	135750	41.814	28.592	36.976	39.604	28.32	-1.20409	0.069641	0.511276	1.086749	0.473743
AE003853	136250	51.732	32.628	21.188	34.54	32.656	-0.24297	0.643512	-1.45514	0.291001	1.324968
AE003853	136750	60.922	25.66	31.238	26.864	31.36	0.647699	-0.34447	-0.20138	-0.91581	1.07319
AE003853	137250	51.296	32.596	37.346	29.14	31.158	-0.28248	0.64101	0.561087	-0.55643	1.035667
AE003853	137750	56.144	30.364	36.222	46.578	29.9	0.188007	0.32523	0.422236	2.189062	0.791331
AE003853	138250	45.71	26.028	47.766	40.338	28.58	-0.82037	-0.28918	1.862187	1.208242	0.534852
AE003853	138750	43.566	21.972	42.604	28.042	26.432	-1.0265	-0.86385	1.220084	-0.72564	0.116213
AE003853	139250	51.654	26.666	39.084	26.04	31.676	-0.24247	-0.19659	0.782622	-1.03951	1.145267
AE003853	139750	44.706	24.716	32.736	34.842	24.894	-0.9135	-0.47234	-0.00729	0.3469	-0.18092
AE003853	140250	50.754	23.13	41.828	37.318	35.564	-0.32689	-0.69643	1.12707	0.737755	1.910791
AE003853	140750	54.536	31.56	37.99	34.348	36.734	0.040446	0.501104	0.649976	0.271549	2.141969
AE003853	141250	53.086	26.542	34.14	26.78	29.082	-0.09853	-0.21011	0.171387	-0.91827	0.645395
AE003853	141750	46.4	35.846	23.508	31.948	32.478	-0.7442	1.111479	-1.15244	-0.10376	1.312525
AE003853	142250	36.212	35.522	25.348	28.918	34.432	-1.72877	1.066512	-0.92189	-0.57941	1.697246
AE003853	142750	47.246	26.076	35.646	26.002	37.626	-0.65965	-0.27319	0.362776	-1.03711	2.324815
AE003853	143250	51.122	26.426	28.132	40.97	33.268	-0.28323	-0.22249	-0.57245	1.319662	1.473357
AE003853	143750	55.096	31.63	26.066	33.946	31.208	0.102686	0.517159	-0.82871	0.21546	1.071952
AE003853	144250	50.104	34.328	40.848	19.974	30.014	-0.37906	0.90112	1.014795	-1.98218	0.84015
AE003853	144750	52.536	34.386	45.97	23.386	28.372	-0.14237	0.910373	1.654378	-1.44402	0.520609

AE003853	145250	49.816	30.034	34.078	34.33	26.698	-0.40424	0.293689	0.173521	0.279479	0.194801
AE003853	145750	53.756	34.31	40.958	33.742	22.85	-0.02162	0.901625	1.032202	0.188139	-0.55678
AE003853	146250	61.09	36.796	28.21	33.43	27.648	0.689441	1.255497	-0.55534	0.140234	0.384931
AE003853	146750	63.398	24.674	24.962	26.932	32.994	0.914131	-0.46402	-0.9589	-0.88119	1.433961
AE003853	147250	61.214	29.91	31.292	21.142	27.024	0.704123	0.280169	-0.16877	-1.79119	0.266799
AE003853	147750	56.148	28.794	28.46	27.284	21.97	0.21522	0.122789	-0.52048	-0.8234	-0.72097
AE003853	148250	56.928	35.704	36.732	39.036	25.922	0.292043	1.104583	0.511682	1.027259	0.055053
AE003853	148750	53.27	30.528	32.576	42.144	27.338	-0.06061	0.370945	-0.00504	1.517575	0.334408
AE003853	149250	44.21	26.64	39.534	40.678	35.43	-0.93601	-0.17988	0.863358	1.28806	1.921231
AE003853	149750	45.42	21.106	43.134	34.434	38.012	-0.81758	-0.96433	1.313256	0.30661	2.428943
AE003853	150250	57.914	18.6	27.114	39.272	31.468	0.392825	-1.319	-0.68207	1.069183	1.149365
AE003853	150750	58.556	28.36	24.574	32.082	25.69	0.456293	0.067308	-0.9974	-0.06114	0.019806
AE003853	151250	42.074	22.396	34.07	24.182	28.966	-1.13735	-0.77818	0.187315	-1.3032	0.663435
AE003853	151750	41.974	25.752	32.99	41.874	27.642	-1.14569	-0.30082	0.053949	1.48226	0.406173
AE003853	152250	44.09	26.784	30.782	37.692	29.38	-0.93958	-0.15332	-0.22	0.825316	0.748591
AE003853	152750	56.728	46.112	37.924	41.504	28.218	0.28476	2.591025	0.671334	1.426423	0.523056
AE003853	153250	58.794	39.41	33.09	38.304	28.254	0.486031	1.640794	0.070109	0.924021	0.532144
AE003853	153750	53.376	30.484	25.146	31.934	26.128	-0.03694	0.374898	-0.91871	-0.07726	0.117814
AE003853	154250	54.342	31.596	30.562	31.618	25.266	0.057887	0.53375	-0.24249	-0.12579	-0.04897
AE003853	154750	57.57	16.996	36.652	29.688	29.192	0.371607	-1.53749	0.517736	-0.42833	0.721961
AE003853	155250	41.862	21.832	45.49	40.784	22.55	-1.14714	-0.85007	1.620441	1.319093	-0.57681
AE003853	155750	63.054	24.398	38.59	45.928	19.878	0.904984	-0.48484	0.761733	2.129823	-1.09807
AE003853	156250	80.626	19.292	36.364	43.622	28.38	2.606795	-1.20854	0.485541	1.768114	0.569048
AE003853	156750	54.624	17.232	36.99	36.218	23.718	0.091883	-1.49991	0.564791	0.604109	-0.34195
AE003853	157250	70.704	24.334	36.856	38.896	19.966	1.64931	-0.49087	0.549324	1.026754	-1.07472
AE003853	157750	54.688	26.68	30.668	32.356	19.138	0.100759	-0.15687	-0.22065	-0.00128	-1.23485
AE003853	158250	42.502	24.2	29.96	27.486	35.086	-1.07716	-0.50785	-0.30765	-0.7665	1.890542
AE003853	158750	55.22	23.274	29.742	21.554	31.526	0.154924	-0.63826	-0.33359	-1.69885	1.195369
AE003853	159250	49.438	26.188	28.498	26.848	25.844	-0.40327	-0.22364	-0.4874	-0.86451	0.084611
AE003853	159750	41.678	26.612	34.68	34.2	28.5	-1.15287	-0.16244	0.284294	0.293703	0.606815
AE003853	160250	41.576	38.436	35.44	32.38	21.456	-1.1614	1.516827	0.380245	0.008478	-0.77068
AE003853	160750	43.878	43.616	29.61	34.482	16.62	-0.93729	2.253072	-0.34511	0.340475	-1.71576
AE003853	161250	40.126	36.684	36.422	26.046	20.578	-1.29904	1.270196	0.505096	-0.98594	-0.93856
AE003853	161750	40.69	23.446	38.548	24.602	22.658	-1.24312	-0.60773	0.77129	-1.21199	-0.52916
AE003853	162250	46.008	19.462	47.536	26.316	21.748	-0.72715	-1.17218	1.892689	-0.94106	-0.70535
AE003853	162750	59.272	26.242	25.422	27.132	23.236	0.557772	-0.20883	-0.86213	-0.81144	-0.41189
AE003853	163250	63.304	26.42	36.112	32.504	20.69	0.949296	-0.18255	0.471391	0.035168	-0.90848

AE003853	163750	65.186	28.792	40.62	47.124	17.926	1.132762	0.155141	1.034452	2.337178	-1.44776
AE003853	164250	62.35	28.3	34.466	37.172	17.236	0.859659	0.086328	0.268717	0.772184	-1.58085
AE003853	164750	50.296	34.112	33.892	34.866	20.068	-0.30548	0.912277	0.198413	0.410474	-1.02418
AE003853	165250	53.114	26.62	33.846	30.238	22.142	-0.03144	-0.15008	0.193912	-0.31666	-0.61596
AE003853	165750	42.094	22.514	26.368	22.502	28.978	-1.09652	-0.73185	-0.73683	-1.53291	0.724885
AE003853	166250	37	29.718	29.932	31.68	20.88	-1.58813	0.291672	-0.29142	-0.08733	-0.85904
AE003853	166750	41.962	36.176	40.272	40.186	18.908	-1.10661	1.209311	0.998477	1.25249	-1.24321
AE003853	167250	54.708	31.922	32.11	31.774	19.884	0.128179	0.606537	-0.01751	-0.07015	-1.05002
AE003853	167750	64.49	24.856	36.564	34.778	23.892	1.076139	-0.39536	0.538817	0.403801	-0.26304
AE003853	168250	58.404	33.606	34.736	46.868	24.844	0.488529	0.847596	0.312228	2.307654	-0.07455
AE003853	168750	51.548	34.212	31.294	38.978	12.492	-0.1736	0.934629	-0.11551	1.067166	-2.4916
AE003853	169250	44.598	22.962	32.43	29.984	18.272	-0.84482	-0.66112	0.027298	-0.34706	-1.35758
AE003853	169750	49.794	23.944	25.576	35.152	27.906	-0.34065	-0.52072	-0.82568	0.467443	0.531241
AE003853	170250	48.026	24.308	31.676	33.49	38.54	-0.5104	-0.46804	-0.06421	0.207083	2.615904
AE003853	170750	43.876	29.092	22.6	35.778	32.318	-0.91066	0.211999	-1.19411	0.568351	1.399389
AE003853	171250	46.23	23.602	24.95	30.574	20.734	-0.68152	-0.56621	-0.9	-0.24943	-0.86725
AE003853	171750	56.142	25.098	35.982	33.302	23.078	0.279021	-0.35285	0.476144	0.181084	-0.40615
AE003853	172250	62.636	26.202	26.114	42.304	29.76	0.908796	-0.19513	-0.75246	1.598965	0.904529
AE003853	172750	39.284	24.06	17.616	33.984	21.008	-1.34967	-0.49814	-1.81033	0.290805	-0.80748
AE003853	173250	45.43	28.532	25.956	30.49	18.504	-0.75357	0.137615	-0.76969	-0.25786	-1.29584
AE003853	173750	55.23	29.824	31.396	36.684	20.49	0.19613	0.322015	-0.09047	0.718108	-0.90485
AE003853	174250	48.682	32.788	31.828	34.346	31.004	-0.43619	0.743732	-0.0354	0.351363	1.156313
AE003853	174750	52.806	35.588	30.034	37.528	33.036	-0.03576	1.142171	-0.25775	0.853324	1.55631
AE003853	175250	58.18	36.286	40.58	35.562	21.384	0.48563	1.242262	1.057818	0.545122	-0.72365
AE003853	175750	48.888	33.232	33.954	22.804	27.546	-0.41223	0.809811	0.233258	-1.46147	0.485192
AE003853	176250	63.462	30.462	30.838	45.866	25.51	0.99946	0.417669	-0.15385	2.1691	0.088488
AE003853	176750	53.986	25.57	33.254	42.08	20.35	0.083794	-0.27566	0.148482	1.574476	-0.92004
AE003853	177250	50.596	24.086	38.584	37.306	24.904	-0.24292	-0.48527	0.813988	0.824367	-0.02612
AE003853	177750	48.326	27.712	37.074	36.882	22.656	-0.46125	0.030406	0.627031	0.758836	-0.46434
AE003853	178250	55.014	28.252	42.362	37.864	23.176	0.187299	0.108071	1.287302	0.914574	-0.36046
AE003853	178750	59.588	23.998	35.508	39.082	32.384	0.631273	-0.4947	0.434327	1.107452	1.444922
AE003853	179250	66.044	33.622	33.942	36.212	25.562	1.257371	0.872304	0.24039	0.656983	0.110899
AE003853	179750	57.628	40.126	31.734	30.506	27.158	0.444284	1.796472	-0.03356	-0.2398	0.425507
AE003853	180250	55.928	35.264	29.376	31.012	22.936	0.281113	1.107402	-0.3262	-0.15897	-0.39932
AE003853	180750	62.264	29.724	29.018	38.684	22.094	0.895599	0.3221	-0.36959	1.0496	-0.56218
AE003853	181250	58.858	19.26	38.544	49.188	35.028	0.567336	-1.16209	0.818864	2.703857	1.972928
AE003853	181750	56.192	28.574	39.486	40.25	29.22	0.310685	0.160914	0.937498	1.298441	0.837493

AE003853	182250	58.216	32.874	50.918	31.846	20.558	0.507892	0.772256	2.36349	-0.02294	-0.85689
AE003853	182750	51.49	28.004	40.948	34.434	21.698	-0.14165	0.08205	1.122171	0.385543	-0.63158
AE003853	183250	48.102	21.312	28.694	34.578	23.762	-0.46817	-0.86676	-0.4038	0.409401	-0.22532
AE003853	183750	60.172	19.474	35.36	39.972	18.916	0.701201	-1.12662	0.428208	1.259474	-1.17235
AE003853	184250	46.122	27.878	31.028	31.474	29.558	-0.6571	0.067226	-0.11045	-0.0767	0.913879
AE003853	184750	49.634	23.764	42.746	32.58	25.572	-0.3159	-0.51568	1.351184	0.098555	0.135275
AE003853	185250	57.004	29.09	31.62	19.086	20.248	0.398652	0.241291	-0.03421	-2.02386	-0.90537
AE003853	185750	59.656	31.526	29.66	30.374	26.076	0.656632	0.588066	-0.27725	-0.24622	0.238057
AE003853	186250	58.692	28.556	23.684	38.406	27.53	0.564685	0.167538	-1.0208	1.019006	0.524855
AE003853	186750	40.588	17.94	26.638	30.752	19.784	-1.18593	-1.33823	-0.65141	-0.18434	-0.99013
AE003853	187250	45.064	27.664	31.32	29.492	26.896	-0.75143	0.042971	-0.06666	-0.38144	0.404765
AE003853	187750	40.412	30.16	32.296	32.792	21.93	-1.20027	0.398262	0.056206	0.139094	-0.56577
AE003853	188250	41.576	25.064	26.442	33.312	25.754	-1.08629	-0.32402	-0.67214	0.222124	0.185184
AE003853	188750	39.74	28.436	24.904	41.678	26.872	-1.26262	0.155605	-0.86259	1.539915	0.406178
AE003853	189250	41.074	27.662	32.09	37.28	23.912	-1.13219	0.046766	0.03423	0.848978	-0.17149
AE003853	189750	46.484	33.014	23.764	30.458	13.146	-0.60731	0.807425	-1.0022	-0.22343	-2.27793
AE003853	190250	47.478	31.076	32.214	30.096	20.122	-0.50978	0.533374	0.052149	-0.27921	-0.90967
AE003853	190750	47.68	29.744	30.53	30.59	19.092	-0.48889	0.345336	-0.15649	-0.20027	-1.10935
AE003853	191250	45.874	24.268	32.458	33.744	21.69	-0.66232	-0.43088	0.085024	0.297286	-0.59851
AE003853	191750	45.406	30.036	32.452	35.404	25.476	-0.70627	0.388821	0.085509	0.559723	0.145005
AE003853	192250	51.2	34.582	40.01	37.156	31.526	-0.14423	1.035079	1.028689	0.836639	1.33191
AE003853	192750	56.298	31.836	36.854	27.552	31.778	0.350451	0.646344	0.636592	-0.67359	1.383301
AE003853	193250	50.672	27.696	36.59	36.706	28.534	-0.19264	0.059751	0.604922	0.768213	0.750015
AE003853	193750	50.702	24.394	39.11	32.69	31.676	-0.1884	-0.4079	0.92022	0.137393	1.367401
AE003853	194250	44.482	39.026	37.996	33.398	21.672	-0.78898	1.669919	0.782616	0.25001	-0.5898
AE003853	194750	43.656	27.256	31.254	25.558	20.848	-0.86757	0.000359	-0.0564	-0.98261	-0.74914
AE003853	195250	45.206	14.972	31.294	33.406	18.144	-0.71623	-1.74216	-0.05018	0.253661	-1.27667
AE003853	195750	47.708	27.276	36.184	45.014	18.61	-0.47277	0.005238	0.560486	2.081659	-1.18337
AE003853	196250	54.728	39.332	26.266	38.974	26.212	0.207909	1.717431	-0.67435	1.132314	0.307489
AE003853	196750	52.652	29.39	27.622	40.862	31.596	0.008352	0.307329	-0.50412	1.430633	1.363961
AE003853	197250	55.922	25.678	32.018	35.496	39.702	0.326136	-0.21852	0.044979	0.587357	2.953525
AE003853	197750	45.26	29.596	29.324	29.62	20.556	-0.7043	0.338607	-0.28954	-0.33618	-0.7941
AE003853	198250	44.72	23.096	30.048	34.874	24.67	-0.75522	-0.58295	-0.19808	0.491862	0.013646
AE003853	198750	56.02	25.306	24.564	44.17	28.49	0.339644	-0.26826	-0.88031	1.956011	0.763815
AE003853	199250	55.354	27.546	25.604	40.87	24.34	0.276535	0.050699	-0.74946	1.437871	-0.04691
AE003853	199750	59.092	17.57	21.464	31.316	21.064	0.639608	-1.36423	-1.26419	-0.06449	-0.68646
AE003853	200250	64.692	21.96	30.632	28.198	27.662	1.18287	-0.74011	-0.12036	-0.55399	0.607768

AE003853	200750	51.582	21.97	26.584	25.504	33.932	-0.08446	-0.73767	-0.62363	-0.97676	1.83776
AE003853	201250	35.184	20.772	24.79	22.914	17.008	-1.66998	-0.90669	-0.84598	-1.38316	-1.4747
AE003853	201750	53.656	29.174	16.342	33.66	20.892	0.118924	0.286869	-1.89761	0.309181	-0.71199
AE003853	202250	53.608	22.792	28.69	28.752	17.4	0.11562	-0.61794	-0.35746	-0.46202	-1.39385
AE003853	202750	49.918	20.908	25.696	20.262	19.406	-0.24013	-0.88433	-0.72937	-1.79693	-0.99895
AE003853	203250	59.284	33.356	24.032	20.84	23.056	0.667578	0.883503	-0.93552	-1.70477	-0.28207
AE003853	203750	49.404	25.762	34.186	26.024	28.19	-0.28718	-0.19333	0.331199	-0.88775	0.725441
AE003853	204250	50.948	24.506	36.012	27.022	25.058	-0.13643	-0.37059	0.560005	-0.72949	0.114089
AE003853	204750	68.05	27.432	30.268	26.704	20.6	1.5199	0.045737	-0.15463	-0.77834	-0.75695
AE003853	205250	60.986	28.16	32.652	31.508	21.172	0.837648	0.150086	0.143716	-0.02112	-0.64289
AE003853	205750	53.918	22.35	22.704	27.74	20.208	0.155008	-0.67354	-1.09486	-0.61291	-0.82965
AE003853	206250	45.634	18.348	22.322	33.136	21.902	-0.64531	-1.24054	-1.14124	0.237481	-0.49585
AE003853	206750	50.294	32.69	29.27	26.828	22.218	-0.19301	0.796113	-0.27408	-0.75404	-0.43192
AE003853	207250	40.608	21.812	22.542	30.558	20.866	-1.129	-0.74684	-1.11135	-0.16584	-0.69467
AE003853	207750	41.462	23.694	27.806	29.092	24.414	-1.04501	-0.4787	-0.45407	-0.39535	0.00223
AE003853	208250	37.826	31.404	23.654	35.854	23.098	-1.39553	0.616644	-0.9703	0.670008	-0.25347
AE003853	208750	41.28	25.26	18.354	33.246	21.426	-1.05994	-0.25439	-1.6296	0.260772	-0.57888
AE003853	209250	49.552	21.578	21.3	31.492	22.91	-0.25811	-0.77597	-1.26121	-0.01407	-0.28621
AE003853	209750	47.022	27.964	28.498	25.96	15.312	-0.5016	0.131445	-0.3629	-0.88347	-1.77221
AE003853	210250	46.956	27.466	26.396	26.794	29.87	-0.50664	0.061781	-0.62364	-0.75102	1.080955
AE003853	210750	46.25	24.204	26.36	32.696	29.446	-0.57362	-0.40019	-0.62689	0.179	0.999954
AE003853	211250	46.74	21.262	29.61	27.876	20.744	-0.52486	-0.81675	-0.22061	-0.57835	-0.70226
AE003853	211750	66.474	20.126	26.562	34.832	27.944	1.386167	-0.97697	-0.59925	0.517543	0.709869
AE003853	212250	62.326	24.9	25.956	38.632	27.966	0.9861	-0.29835	-0.67354	1.116762	0.716216
AE003853	212750	53.348	28.592	20.128	35.364	21.654	0.118626	0.2267	-1.39865	0.603658	-0.51793
AE003853	213250	47.586	26.754	27.49	27.408	17.188	-0.43763	-0.03316	-0.4799	-0.64722	-1.39053
AE003853	213750	63.168	24.512	35.618	29.28	21.582	1.071605	-0.35036	0.534321	-0.35142	-0.52795
AE003853	214250	46.144	24.266	30.04	31.788	29.51	-0.57449	-0.38425	-0.15963	0.044475	1.026753
AE003853	214750	63.802	24.858	35.16	29.276	19.572	1.135641	-0.29921	0.479706	-0.34965	-0.91752
AE003853	215250	52.854	20.894	39.946	25.658	21.046	0.077527	-0.86082	1.077414	-0.91784	-0.62681
AE003853	215750	48.216	22.14	45.17	38.3	33.382	-0.36996	-0.68295	1.729709	1.072885	1.791182
AE003853	216250	65.9	23.124	36.388	38.62	24.824	1.342691	-0.54226	0.636448	1.124441	0.117172
AE003853	216750	76.444	31.212	37.056	35.094	18.718	2.364391	0.60673	0.720933	0.570735	-1.07663
AE003853	217250	72.176	37.374	41.918	40.338	23.268	1.952712	1.482356	1.328113	1.397202	-0.18349
AE003853	217750	76.916	27.454	29.63	29.986	31.958	2.41275	0.075376	-0.2021	-0.23074	1.52045
AE003853	218250	61.11	26.276	27.922	26.46	19.044	0.884521	-0.0908	-0.41373	-0.78445	-1.00667
AE003853	218750	61.964	18.514	37.166	39.376	28.154	0.968505	-1.19149	0.739573	1.249396	0.779528

AE003853	219250	66.122	36.868	27.492	41.502	20.408	1.372222	1.414616	-0.46486	1.58517	-0.73546
AE003853	219750	39.202	25.852	26.342	41.358	15.318	-1.23153	-0.14793	-0.60695	1.563704	-1.73027
AE003853	220250	42.942	23.498	31.01	32.686	16.15	-0.86826	-0.48102	-0.02395	0.200149	-1.56529
AE003853	220750	61.262	26.51	35.032	27.788	14.432	0.905936	-0.05249	0.478545	-0.56947	-1.89972
AE003853	221250	55.236	35.358	39.952	24.024	17.974	0.324133	1.204373	1.092953	-1.16064	-1.20399
AE003853	221750	59.198	40.368	31.062	22.114	22.534	0.708883	1.916489	-0.01377	-1.46003	-0.3089
AE003853	222250	63.884	41.836	21.772	28.494	23.742	1.163695	2.12587	-1.17034	-0.45478	-0.07028
AE003853	222750	62.584	23.172	30.79	31.334	20.536	1.039234	-0.52219	-0.0452	-0.00664	-0.69612
AE003853	223250	58.748	22.542	27.956	33.24	28.456	0.669359	-0.61059	-0.39717	0.29451	0.857015
AE003853	223750	61.604	20.65	28.022	33.23	21.61	0.94708	-0.87811	-0.38771	0.294132	-0.48171
AE003853	224250	61.112	26.46	23.398	23.906	22.94	0.90081	-0.05245	-0.96276	-1.17203	-0.2192
AE003853	224750	51.722	20.378	23.558	27.332	27.942	-0.00653	-0.91468	-0.94159	-0.63167	0.762464
AE003853	225250	43.7	26.238	26.01	25.612	20.416	-0.78149	-0.08192	-0.63477	-0.90116	-0.70943
AE003853	225750	54.93	34.094	27.196	31.936	18.362	0.306592	1.034145	-0.48572	0.095274	-1.10966
AE003853	226250	58.968	38.848	25.902	43.87	24.896	0.698697	1.709926	-0.64576	1.974576	0.172031
AE003853	226750	49.456	23.76	26.612	35.784	25.982	-0.22045	-0.43058	-0.55604	0.703242	0.386757
AE003853	227250	55.904	26.848	22.992	29.314	26.382	0.404871	0.008741	-1.00597	-0.31377	0.467134
AE003853	227750	54.276	18.868	38.112	31.226	35.138	0.248669	-1.12288	0.87966	-0.01168	2.183998
AE003853	228250	57.132	20.046	41.724	37.162	23.542	0.526389	-0.95466	1.331053	0.923692	-0.08499
AE003853	228750	57.88	17.582	39.366	37.552	20.588	0.600116	-1.30337	1.03841	0.986264	-0.66148
AE003853	229250	46.604	14.908	25.89	37.094	17.094	-0.48974	-1.68189	-0.63986	0.915383	-1.34373
AE003853	229750	51.828	16.09	28.218	34.804	20.65	0.017137	-1.5131	-0.34849	0.556191	-0.64527
AE003853	230250	43.116	22.508	28.784	31.398	35.594	-0.8246	-0.60114	-0.27672	0.02137	2.283493
AE003853	230750	42.02	23.958	29.23	37.402	26.648	-0.92932	-0.39431	-0.2199	0.967442	0.533494
AE003853	231250	45.54	17.736	30.728	40.054	18.496	-0.58734	-1.27642	-0.03197	1.385995	-1.061
AE003853	231750	52.85	24.622	27.806	40.008	19.122	0.121403	-0.29803	-0.39491	1.379952	-0.93637
AE003853	232250	41.122	26.25	29.452	39.212	25.148	-1.01219	-0.06594	-0.18853	1.255877	0.245839
AE003853	232750	34.678	26.578	26.79	26.968	18.854	-1.63445	-0.01836	-0.51906	-0.66982	-0.98478
AE003853	233250	50.172	27.628	33.846	27.294	18.49	-0.13373	0.131689	0.361551	-0.61732	-1.05403
AE003853	233750	63.888	28.014	33.966	39.106	23.966	1.194932	0.187495	0.377739	1.242784	0.020463
AE003853	234250	61.056	22.13	31.91	39.894	20.428	0.922216	-0.64663	0.122734	1.367991	-0.6704
AE003853	234750	58.606	25.038	37.93	36.996	19.538	0.686467	-0.23286	0.874234	0.913115	-0.84267
AE003853	235250	61.338	40.386	49.986	43.898	27.718	0.952188	1.94658	2.377996	2.00051	0.761391
AE003853	235750	46.114	29.88	32.418	33.44	33.762	-0.51972	0.456426	0.189744	0.355884	1.947121
AE003853	236250	41.89	28.318	30.646	30.504	27.306	-0.92714	0.235743	-0.02987	-0.10497	0.684778
AE003853	236750	46.104	20.298	38.376	45.906	25.486	-0.51801	-0.90156	0.934749	2.320105	0.330376
AE003853	237250	53.032	18.646	28.72	34.932	23.022	0.153769	-1.13502	-0.26744	0.594274	-0.15015

AE003853	237750	48.482	23.948	30.474	30.528	24.98	-0.2852	-0.38146	-0.0476	-0.09761	0.235354
AE003853	238250	48.696	30.788	37.568	29.068	31.274	-0.26315	0.590403	0.837747	-0.32618	1.470046
AE003853	238750	61.322	31.212	29.938	36.818	24.262	0.960029	0.651604	-0.11194	0.89467	0.098813
AE003853	239250	65.01	33.802	25.392	45.85	25.324	1.318264	1.020236	-0.67727	2.317272	0.308839
AE003853	239750	50.37	36.14	31.164	30.286	18.586	-0.09713	1.353101	0.04332	-0.13091	-1.00873
AE003853	240250	57.04	39.628	38.116	32.656	20.358	0.549677	1.849192	0.910974	0.243266	-0.65966
AE003853	240750	72.922	34.1	36.866	26.842	28.806	2.087944	1.065593	0.75642	-0.67051	0.996888
AE003853	241250	76.876	31.418	34.344	20.4	16.714	2.471919	0.685942	0.443338	-1.68312	-1.36924
AE003853	241750	64.816	24.652	29.514	28.288	15.032	1.306196	-0.27337	-0.15739	-0.44056	-1.69662
AE003853	242250	55.022	37.94	33.26	29.458	22.1	0.359757	1.613684	0.310706	-0.25523	-0.31034
AE003853	242750	51.402	29.38	26.568	23.72	27.274	0.010786	0.399737	-0.52208	-1.15705	0.705004
AE003853	243250	60.942	30.688	26.116	32.876	24.716	0.935327	0.586408	-0.57718	0.285064	0.206068
AE003853	243750	47.528	31.178	26.168	35.064	21.194	-0.36142	0.656976	-0.56947	0.630595	-0.48166
AE003853	244250	44.738	24.836	22.624	37.362	25.452	-0.63008	-0.24216	-1.00992	0.993438	0.354286
AE003853	244750	50.218	21.358	22.862	29.07	22.882	-0.09843	-0.73479	-0.97902	-0.31032	-0.147
AE003853	245250	53.48	29.852	31.066	25.196	27.934	0.218583	0.47183	0.044665	-0.91879	0.844452
AE003853	245750	51.09	28.404	34.996	25.378	33.704	-0.01136	0.267327	0.53569	-0.88895	1.97652
AE003853	246250	47.732	16.756	38.676	32.25	28.318	-0.33498	-1.38492	0.995558	0.193723	0.923732
AE003853	246750	69.942	36.85	43.538	34.766	27.55	1.81566	1.468153	1.602738	0.590873	0.775361
AE003853	247250	57.382	41.622	42.608	33.918	37.564	0.601551	2.146489	1.488065	0.458616	2.738599
AE003853	247750	59.534	35.364	38.302	35.73	27.866	0.811144	1.259277	0.952645	0.744974	0.841324
AE003853	248250	42.432	19.39	32.994	39.334	29.178	-0.8425	-1.00698	0.292346	1.313348	1.100311
AE003853	248750	45.442	12.156	34.166	34.556	21.188	-0.54988	-2.03272	0.439644	0.562609	-0.46246
AE003853	249250	45.854	18.834	26.784	24.56	27.376	-0.50867	-1.08386	-0.47914	-1.00931	0.751473
AE003853	249750	36.406	22.158	26.458	22.416	25.842	-1.42162	-0.61104	-0.51853	-1.34553	0.453084
AE003853	250250	47.816	35.9	29.262	32.172	25.144	-0.31612	1.340454	-0.16784	0.191016	0.318421
AE003853	250750	50.17	23.954	36.988	37.652	18.306	-0.08698	-0.35409	0.796278	1.054624	-1.01873
AE003853	251250	39.926	19.642	39.34	25.998	20.222	-1.07696	-0.96509	1.090638	-0.77822	-0.64146
AE003853	251750	40.444	19.512	27.6	26.3	26.662	-1.02549	-0.98252	-0.37128	-0.7295	0.621829
AE003853	252250	55.992	22.816	25.206	28.612	31.304	0.480451	-0.51255	-0.6684	-0.36445	1.532983
AE003853	252750	51.148	20.772	25.888	23.822	32.708	0.013031	-0.80165	-0.58217	-1.11708	1.809989
AE003853	253250	45.72	21.846	30.262	28.874	32.04	-0.5109	-0.64819	-0.03581	-0.32083	1.681202
AE003853	253750	56.838	28.532	34.674	25.658	25.5	0.566344	0.301813	0.515282	-0.82575	0.402408
AE003853	254250	58.006	16.208	40.214	37.302	21.872	0.680714	-1.44638	1.20696	1.007914	-0.30608
AE003853	254750	52.698	26.044	36.18	32.308	14.818	0.168392	-0.04928	0.705439	0.223182	-1.68554
AE003853	255250	47.446	29.064	28.116	29.45	20.912	-0.33851	0.380382	-0.29834	-0.2254	-0.49002
AE003853	255750	37.794	23.998	25.082	38.492	22.282	-1.27121	-0.33764	-0.67523	1.198778	-0.21967

AE003853	256250	46.452	24.11	40.782	31.33	21.384	-0.43202	-0.32073	1.28268	0.072858	-0.3935
AE003853	256750	57.548	31.298	36.102	38.11	20.956	0.643099	0.700525	0.700648	1.141053	-0.47529
AE003853	257250	50.264	31.266	36.86	33.606	18.536	-0.06044	0.697003	0.79635	0.433434	-0.9472
AE003853	257750	49.908	34.428	30.294	35.96	29.06	-0.09355	1.146823	-0.02073	0.805089	1.115922
AE003853	258250	51.468	38.832	31.782	39.864	23.89	0.058752	1.772926	0.165948	1.420675	0.105437
AE003853	258750	52.922	25.664	35.594	32.98	25.376	0.200799	-0.09506	0.642267	0.338506	0.398502
AE003853	259250	48.524	24.244	34.516	21.472	24.91	-0.22346	-0.29559	0.50915	-1.47136	0.309276
AE003853	259750	64.02	23.21	37.8	38.438	27.604	1.277452	-0.44133	0.919664	1.199847	0.838922
AE003853	260250	52.662	27.8	41.048	40.768	20.416	0.179663	0.211174	1.325692	1.567725	-0.56678
AE003853	260750	59.156	25.102	42.618	31.714	18.9	0.809438	-0.17075	1.522593	0.144053	-0.86164
AE003853	261250	65.764	37.99	24.226	31.47	23.316	1.450246	1.659536	-0.76835	0.10685	0.005249
AE003853	261750	44.726	23.874	25.678	28.696	32.926	-0.58429	-0.343	-0.58616	-0.32851	1.889366
AE003853	262250	43.374	24.042	39.654	26.706	29.93	-0.71379	-0.31814	1.15689	-0.64049	1.304649
AE003853	262750	43.48	22.838	24.974	28.022	26.254	-0.70219	-0.48801	-0.67143	-0.43219	0.586758
AE003853	263250	38.848	28.064	20.074	40.296	25.476	-1.14909	0.254764	-1.28088	1.50062	0.436428
AE003853	263750	47.164	29.372	28.384	43.7	26.308	-0.343	0.441436	-0.24398	2.037519	0.60141
AE003853	264250	46.498	28.816	33.212	24.048	23.106	-0.40611	0.363539	0.35896	-1.05401	-0.02365
AE003853	264750	30.048	28.738	31.592	25.256	27.378	-1.99666	0.353488	0.158293	-0.8627	0.81504
AE003853	265250	40.078	20.282	33.622	36.036	32.75	-1.0247	-0.8457	0.412523	0.834989	1.869162
AE003853	265750	49.662	21.07	33.058	36.056	38.414	-0.0959	-0.73283	0.343465	0.839333	2.980471
AE003853	266250	55.3	28.774	37.266	39.218	32.272	0.451041	0.361657	0.869137	1.338147	1.779624
AE003853	266750	60.188	24.628	48.956	20.256	30.012	0.925402	-0.22579	2.327284	-1.64479	1.33905
AE003853	267250	61.49	25.684	36.586	24.612	21.422	1.05274	-0.07488	0.786854	-0.95807	-0.34123
AE003853	267750	56.934	27.938	29.3	33.316	22.788	0.61319	0.246059	-0.11996	0.412911	-0.07166
AE003853	268250	60.288	29.51	28.588	38.356	25.986	0.939103	0.470201	-0.20746	1.207274	0.556688
AE003853	268750	52.454	24.436	29.04	28.718	22.25	0.182336	-0.24896	-0.1499	-0.30831	-0.17295
AE003853	269250	66.48	35.36	23.864	41.348	29.084	1.540995	1.302563	-0.79375	1.68053	1.167495
AE003853	269750	66.83	25.424	27.358	41.2	25.448	1.576206	-0.10669	-0.35706	1.658434	0.457437
AE003853	270250	60.72	23.064	27.676	43.914	28.732	0.986273	-0.44063	-0.3162	2.086745	1.102633
AE003853	270750	55.29	15.848	37.584	30.76	21.68	0.462145	-1.46382	0.919862	0.017837	-0.27643
AE003853	271250	65.196	23.614	31.724	34.142	23.446	1.422105	-0.36053	0.190768	0.551274	0.071468
AE003853	271750	58.46	21.932	27.162	21.18	31.018	0.771593	-0.59825	-0.37656	-1.48742	1.55645
AE003853	272250	45.64	13.722	34.25	20.638	26.51	-0.46768	-1.76252	0.508047	-1.57152	0.675615
AE003853	272750	36.728	11.958	30.204	17.528	27.054	-1.32876	-2.01187	0.00503	-2.05976	0.784193
AE003853	273250	44.93	10.956	21.136	21.506	25.002	-0.5337	-2.15307	-1.12387	-1.43253	0.384355
AE003853	273750	59.19	10.1	38.09	25.714	20.668	0.847602	-2.27355	0.990321	-0.7691	-0.4624
AE003853	274250	52.938	16.698	36.45	28.566	21.998	0.243927	-1.33604	0.787161	-0.31907	-0.19989

AE003853	274750	55.624	25.138	33.636	24.52	21.548	0.505197	-0.13708	0.437688	-0.95461	-0.28598
AE003853	275250	44.984	36.29	35.942	20.996	31.084	-0.52311	1.446802	0.726315	-1.508	1.583642
AE003853	275750	49.738	30.754	41.112	22.762	28.994	-0.06172	0.662067	1.37188	-1.22888	1.176362
AE003853	276250	48.338	30.066	34.83	27.518	26.07	-0.19586	0.565435	0.590193	-0.47922	0.605746
AE003853	276750	48.13	27.78	24.054	27.952	21.818	-0.21464	0.241991	-0.75158	-0.40972	-0.22495
AE003853	277250	48.29	27.934	17.214	30.424	25.072	-0.19782	0.264869	-1.60281	-0.01949	0.414368
AE003853	277750	41.608	28.274	25.632	31.384	19.214	-0.8431	0.314147	-0.55245	0.132782	-0.73086
AE003853	278250	51.934	32.178	27.348	30.99	23.614	0.157499	0.869282	-0.33735	0.071973	0.132901
AE003853	278750	46.256	22.744	22.602	18.334	20.22	-0.39063	-0.46872	-0.92761	-1.91856	-0.52976
AE003853	279250	50.438	17.72	19.33	21.102	20.444	0.015411	-1.18078	-1.33416	-1.48175	-0.48385
AE003853	279750	55.906	16.122	25.45	30.054	20.198	0.545899	-1.40657	-0.5702	-0.07174	-0.52999
AE003853	280250	60.93	21.142	31.904	36.344	27.126	1.033421	-0.69304	0.235389	0.919339	0.828863
AE003853	280750	69.24	26.318	26.848	22.408	25.16	1.838933	0.04264	-0.3935	-1.27263	0.445868
AE003853	281250	64.172	31.336	34.152	27.898	32.938	1.349837	0.755892	0.518021	-0.40745	1.971195
AE003853	281750	53.762	27.608	30.434	36.96	22.95	0.343786	0.227776	0.055882	1.01987	0.017124
AE003853	282250	43.394	26.258	26.728	47.134	18.548	-0.6582	0.037183	-0.40476	2.622193	-0.84295
AE003853	282750	46.838	29.354	26.66	31.888	24.87	-0.32358	0.477635	-0.412	0.224058	0.397224
AE003853	283250	51.106	25.058	22.232	30.674	32.056	0.090785	-0.1311	-0.96263	0.034202	1.80661
AE003853	283750	54.43	29.946	33.366	25.524	26.6	0.413795	0.563701	0.426225	-0.77508	0.740113
AE003853	284250	59.63	30.592	39.098	31.212	23.858	0.918348	0.656411	1.141832	0.121261	0.205142
AE003853	284750	56.838	37.152	35.272	23.24	19.606	0.649503	1.588527	0.666234	-1.13213	-0.62556
AE003853	285250	37.72	25.604	31.662	30.916	24.628	-1.19923	-0.04952	0.217555	0.07707	0.360019
AE003853	285750	35.304	18.26	36.078	24.502	28.016	-1.43169	-1.09088	0.76915	-0.93113	1.025583
AE003853	286250	47.814	32.406	28.91	30.416	19.536	-0.21974	0.917961	-0.12296	0.000775	-0.63315
AE003853	286750	45.232	34.83	33.768	30.98	15.144	-0.46826	1.263033	0.483722	0.09073	-1.49127
AE003853	287250	40.706	35.464	28.458	26.98	20.418	-0.90491	1.35404	-0.17683	-0.53757	-0.45634
AE003853	287750	51.424	23.166	38.244	37.102	28.082	0.13363	-0.39046	1.044027	1.056568	1.04666
AE003853	288250	44.648	19.884	28.308	25.6	21.62	-0.52075	-0.85527	-0.19306	-0.75236	-0.21686
AE003853	288750	40.378	22.97	31.56	26.452	22.576	-0.93263	-0.41624	0.213471	-0.61708	-0.02759
AE003853	289250	44.39	25.246	29.91	38.706	27.88	-0.54304	-0.09218	0.009066	1.312585	1.013213
AE003853	289750	62.108	28.672	34.156	35.652	40.882	1.172902	0.395114	0.539474	0.833159	3.561639
AE003853	290250	49.92	30.35	25.642	29.618	29.688	-0.00521	0.634301	-0.52039	-0.11524	1.371378
AE003853	290750	52.546	26.584	28.024	28.972	21.61	0.250255	0.100792	-0.22229	-0.21571	-0.20863
AE003853	291250	47.072	25.744	33.318	34.964	21.972	-0.27813	-0.01741	0.438733	0.728473	-0.13569
AE003853	291750	58.234	19.69	27.82	40.812	27.262	0.803374	-0.87567	-0.24525	1.649995	0.90237
AE003853	292250	61.504	21.946	28.136	42.546	28.202	1.121158	-0.55444	-0.20463	1.924078	1.088503
AE003853	292750	54.004	28.874	39.952	26.958	14.412	0.396713	0.429904	1.26922	-0.52788	-1.61017

AE003853	293250	60.048	25.466	40.162	17.018	12.764	0.982942	-0.05279	1.296625	-2.09098	-1.93089
AE003853	293750	52.21	27.758	23.204	29.844	21.874	0.225788	0.273543	-0.8156	-0.0713	-0.1447
AE003853	294250	57.68	28.442	30.494	35.908	22.858	0.756469	0.371647	0.094176	0.884211	0.050055
AE003853	294750	57.088	23.83	22.966	30.784	32.814	0.700522	-0.28194	-0.8428	0.07902	2.001934
AE003853	295250	62.522	27.102	25.968	26.936	26.816	1.22772	0.183493	-0.46743	-0.52536	0.829288
AE003853	295750	51.03	32.022	23.898	27.792	20.43	0.116962	0.882836	-0.72418	-0.38945	-0.41935
AE003853	296250	39.032	27.668	21.66	24.638	27.212	-1.04276	0.265869	-1.00187	-0.88462	0.910919
AE003853	296750	38.398	24.894	26.218	30.868	27.752	-1.10277	-0.12684	-0.43258	0.097023	1.018714
AE003853	297250	44.578	30.166	29.9	44.158	27.348	-0.50338	0.622463	0.027542	2.189725	0.94163
AE003853	297750	49.204	35.762	22.91	27.832	15.984	-0.05438	1.417754	-0.84238	-0.37837	-1.28192
AE003853	298250	52.722	28.274	19.624	19.51	17.6	0.287406	0.355961	-1.25068	-1.68685	-0.9634
AE003853	298750	65.998	28.356	26.174	21.818	23.104	1.573486	0.368619	-0.43313	-1.32243	0.116574
AE003853	299250	59.816	19.14	45.266	28.254	30.842	0.976586	-0.93844	1.947524	-0.30837	1.634067
AE003853	299750	49.122	25.124	37.608	22.844	24.048	-0.05695	-0.08808	0.994346	-1.15857	0.305528
AE003853	300250	50.444	20.834	22.058	26.356	17.458	0.072326	-0.69596	-0.9424	-0.60468	-0.98306
AE003853	300750	47.034	20.628	23.968	22.576	14.914	-0.25632	-0.72418	-0.70313	-1.19836	-1.47925
AE003853	301250	46.922	24.066	24.62	24.112	16.706	-0.26582	-0.23518	-0.62064	-0.95543	-1.12626
AE003853	301750	54.376	25.632	27.076	23.036	20.894	0.456855	-0.01189	-0.31332	-1.12357	-0.30402
AE003853	302250	55.008	31.126	26.464	34.318	19.338	0.519356	0.76892	-0.38836	0.653121	-0.60672
AE003853	302750	63.964	23.82	37.942	39.646	13.072	1.387383	-0.26704	1.043368	1.492807	-1.83185
AE003853	303250	69.23	17.474	43.196	36.88	18.612	1.898323	-1.16674	1.699402	1.058706	-0.74482
AE003853	303750	71.968	22.532	33.586	30.442	25.37	2.164625	-0.44781	0.502949	0.046725	0.58074
AE003853	304250	53.572	17.782	24.316	26.392	22.916	0.385757	-1.12099	-0.65113	-0.58945	0.102172
AE003853	304750	44.234	20.818	16.304	19.66	14.284	-0.51655	-0.68905	-1.64843	-1.64769	-1.58633
AE003853	305250	48.662	18.674	22.366	19.75	20.4	-0.08671	-0.99234	-0.89169	-1.63233	-0.3865
AE003853	305750	52.664	42.924	28.552	19.986	19.192	0.301913	2.450613	-0.1195	-1.594	-0.62104
AE003853	306250	63.282	45.248	30.088	34.424	32.108	1.330774	2.781491	0.07316	0.67937	1.910539
AE003853	306750	59.792	29.522	22.286	43.744	31.686	0.994383	0.550434	-0.89796	2.147296	1.82993
AE003853	307250	72	33.08	22.22	34.444	26.12	2.177111	1.05646	-0.90496	0.684909	0.74189
AE003853	307750	56.35	37.28	31.26	42.136	20.266	0.663978	1.653609	0.222923	1.896629	-0.40255
AE003853	308250	63.532	30.294	43.494	51.89	11.894	1.360332	0.663068	1.748868	3.432855	-2.04014
AE003853	308750	52.668	34.776	37.488	45.222	28.344	0.310348	1.300242	1.001578	2.384679	1.183565
AE003853	309250	54.916	42.076	25.778	41.024	26.334	0.529231	2.337391	-0.4566	1.725217	0.791953
AE003853	309750	48.1	30.918	32.434	27.01	28.91	-0.12902	0.754695	0.374168	-0.47903	1.298489
AE003853	310250	41.44	24.494	24.422	35.972	21.564	-0.77218	-0.15608	-0.62313	0.932553	-0.13816
AE003853	310750	32.43	15.446	12.514	42.906	14.422	-1.64275	-1.43929	-2.10598	2.024983	-1.53485
AE003853	311250	5.728	1.428	3.406	25.528	5.56	-4.2254	-3.42792	-3.23987	-0.70867	-3.2684

AE003853	311750	15.64	11.728	16.416	30.666	12.884	-3.26486	-1.96497	-1.61721	0.101112	-1.83198
AE003853	312250	14.696	6.602	6.714	25.33	7.958	-3.35487	-2.69151	-2.82513	-0.73744	-2.79468
AE003853	312750	43.838	22.446	37.976	25.22	24.88	-0.53341	-0.44166	1.072258	-0.75356	0.521458
AE003853	313250	52.23	24.268	39.576	28.502	26.27	0.280033	-0.18204	1.272898	-0.23586	0.795722
AE003853	313750	40.22	23.614	30.136	29.016	17.848	-0.88085	-0.27384	0.097631	-0.15377	-0.85165
AE003853	314250	35.152	23.35	26.12	20.556	14.726	-1.36995	-0.31029	-0.40165	-1.48396	-1.46105
AE003853	314750	34.096	25.99	31.362	18.628	21.562	-1.4708	0.065436	0.252892	-1.78619	-0.12021
AE003853	315250	39.516	20.144	31.644	24.558	22.264	-0.94495	-0.7633	0.28927	-0.85176	0.019315
AE003853	315750	47.236	32.466	26.008	29.892	23.96	-0.19654	0.986649	-0.41191	-0.01113	0.353508
AE003853	316250	46.042	33.02	26.366	32.78	24.522	-0.31074	1.066301	-0.36606	0.444565	0.465611
AE003853	316750	36.512	28.97	28.94	33.104	19.348	-1.23163	0.492483	-0.04403	0.496751	-0.54566
AE003853	317250	35.776	20.87	41.822	23.446	21.806	-1.30152	-0.65617	1.562676	-1.02198	-0.06223
AE003853	317750	34.614	10.816	29.724	22.016	16.956	-1.41262	-2.08217	0.056145	-1.24583	-1.01004
AE003853	318250	37.148	15.126	28.952	19.72	18.748	-1.16606	-1.46941	-0.03884	-1.60596	-0.65705
AE003853	318750	36.008	13.77	31.18	23.496	17.354	-1.27504	-1.66086	0.240071	-1.01052	-0.92802
AE003853	319250	50.024	27.388	26.478	31.822	23.74	0.082651	0.27304	-0.3447	0.300976	0.324687
AE003853	319750	55.756	23.758	28.214	23.792	17.088	0.638686	-0.24117	-0.12711	-0.96154	-0.97604
AE003853	320250	60.528	26.88	23.522	31.634	15.768	1.101821	0.202977	-0.71064	0.273782	-1.23252
AE003853	320750	54.348	20.962	35.976	40.522	21.82	0.505114	-0.63598	0.842722	1.673722	-0.04522
AE003853	321250	48.532	17.806	35.01	31.202	20.964	-0.05637	-1.08291	0.723563	0.208188	-0.21083
AE003853	321750	51.316	27.9	26.39	24.192	22.932	0.214386	0.350811	-0.34951	-0.89381	0.176633
AE003853	322250	45.62	25.52	30.058	32.624	23.262	-0.33548	0.014024	0.108865	0.434366	0.2433
AE003853	322750	42.56	26.37	25.686	24.698	17.806	-0.63026	0.135689	-0.43478	-0.81179	-0.8232
AE003853	323250	38.434	6.716	19.624	21.96	12.334	-1.0282	-2.65289	-1.18905	-1.24148	-1.89283
AE003853	323750	42.854	12.044	26.954	34.384	18.792	-0.59913	-1.89564	-0.27429	0.714933	-0.62602
AE003853	324250	46.272	16.558	28.52	36.062	20.442	-0.26702	-1.25392	-0.07788	0.980204	-0.30083
AE003853	324750	38.532	12.746	15.36	22.78	16.064	-1.01469	-1.79396	-1.71677	-1.10885	-1.15621
AE003853	325250	33.294	21.128	21.664	22.206	14.654	-1.52024	-0.60324	-0.92988	-1.19798	-1.43031
AE003853	325750	45.144	26.962	19.206	21.33	15.59	-0.37216	0.225834	-1.23498	-1.33465	-1.24496
AE003853	326250	39.81	8.354	12.628	12.426	13.652	-0.887	-2.41428	-2.05356	-2.73471	-1.62247
AE003853	326750	48.33	22.44	17.592	23.532	22.906	-0.06116	-0.41396	-1.43367	-0.98572	0.19192
AE003853	327250	60.378	38.224	27.726	36.23	31.58	1.106083	1.82737	-0.16944	1.013818	1.892725
AE003853	327750	50.614	30.976	29.806	46.186	32.352	0.162548	0.799642	0.091018	2.581834	2.045956
AE003853	328250	53.086	29.914	30.254	43.548	24.54	0.403108	0.649927	0.148084	2.167876	0.518046
AE003853	328750	36.286	39.676	32.23	37.702	29.27	-1.22131	2.03652	0.395584	1.249061	1.446435
AE003853	329250	37.088	35.118	29.904	42.256	28.854	-1.14236	1.390598	0.106929	1.96694	1.367001
AE003853	329750	40.734	24.72	21.568	31.634	23.624	-0.78819	-0.08423	-0.93075	0.296505	0.344765

AE003853	330250	35.956	14.894	23.398	25.96	25.954	-1.24922	-1.47786	-0.70144	-0.59524	0.803124
AE003853	330750	44.47	20.282	32.428	27.296	16.336	-0.42397	-0.7121	0.425191	-0.38379	-1.07848
AE003853	331250	40.38	19.554	26.074	32.612	16.438	-0.81842	-0.81441	-0.36547	0.454005	-1.05647
AE003853	331750	44.908	18.894	21.934	28.964	16.108	-0.3789	-0.90706	-0.8802	-0.1189	-1.11906
AE003853	332250	55.062	23.798	0.24	33.394	21.934	0.605059	-0.20999	-3.58267	0.579464	0.023975
AE003853	332750	40.946	28.146	0	41.288	22.13	-0.75963	0.408164	-3.61135	1.822974	0.064399
AE003853	333250	48.172	31.442	0	38.396	18.658	-0.05901	0.877003	-3.61012	1.369043	-0.61354
AE003853	333750	61.886	28.92	3.378	38.462	19.01	1.269452	0.520061	-3.18789	1.380625	-0.54256
AE003853	334250	67.05	37.978	32.84	34.326	24.164	1.770521	1.806732	0.485167	0.730921	0.468863
AE003853	334750	61.736	37.808	29.434	30.678	24.12	1.257618	1.783623	0.061913	0.158015	0.462284
AE003853	335250	58.54	30.972	39.718	31.916	23.214	0.949678	0.814372	1.344831	0.35404	0.286886
AE003853	335750	57.434	23.642	36.632	23.918	17.608	0.84399	-0.22499	0.961458	-0.90344	-0.80899
AE003853	336250	46.91	18.616	22.424	14.028	11.862	-0.17309	-0.93734	-0.80804	-2.45868	-1.93228
AE003853	336750	48.55	19.048	13.226	19.5	9.804	-0.01305	-0.87501	-1.95315	-1.59633	-2.33329
AE003853	337250	57.696	24.06	32.992	25.084	17.326	0.873368	-0.16261	0.511506	-0.71636	-0.8581
AE003853	337750	46.714	22.362	35.48	26.91	14.224	-0.18804	-0.40259	0.822816	-0.4278	-1.46358
AE003853	338250	43.126	22.32	33.23	29.762	20.398	-0.53391	-0.40753	0.543633	0.022231	-0.25239
AE003853	338750	60.096	19.91	33.03	37.278	21.574	1.109643	-0.74858	0.51994	1.206254	-0.02004
AE003853	339250	69.026	26.794	29.842	30.848	16.158	1.975154	0.229525	0.123855	0.195532	-1.0787
AE003853	339750	48.55	21.174	30.91	23.332	2.754	-0.005	-0.56713	0.258191	-0.9861	-3.70178
AE003853	340250	53.91	20.44	35.548	22.974	15.712	0.515039	-0.67029	0.837454	-1.04124	-1.16197
AE003853	340750	45.924	26.364	34.658	22.956	16.928	-0.25644	0.171553	0.727767	-1.04288	-0.92178
AE003853	341250	51.128	24.868	41.228	19.862	24.088	0.248503	-0.03976	1.547813	-1.5286	0.48251
AE003853	341750	41.576	33.59	32.448	24.088	24.006	-0.67452	1.199218	0.454802	-0.86234	0.468489
AE003853	342250	49.106	29.884	41.452	35.982	19.266	0.055513	0.674225	1.578195	1.010668	-0.45778
AE003853	342750	52.08	18.41	38.942	33.462	16.184	0.344653	-0.95332	1.266608	0.61528	-1.05934
AE003853	343250	33.878	18.716	21.314	21.614	16.522	-1.41544	-0.90887	-0.92912	-1.2481	-0.99111
AE003853	343750	35.272	31.338	21.594	13.122	14.892	-1.2792	0.883659	-0.89299	-2.58332	-1.3083
AE003853	344250	45.942	17.706	30.126	15.624	14.43	-0.24531	-1.05019	0.171576	-2.18838	-1.39674
AE003853	344750	51.752	17.6	41.476	23.698	9.622	0.318277	-1.06421	1.587349	-0.91654	-2.33633
AE003853	345250	55.564	20.258	31.174	27.234	19.032	0.688511	-0.68593	0.304653	-0.35887	-0.49138
AE003853	345750	60.166	38.812	25.982	27.944	27.612	1.135195	1.948563	-0.34119	-0.24594	1.191012
AE003853	346250	50.928	31.442	24.968	20.614	19.044	0.242561	0.903519	-0.46633	-1.39829	-0.48496
AE003853	346750	52.7	32.5	24.256	22.356	16.26	0.415382	1.054707	-0.55383	-1.12295	-1.02815
AE003853	347250	55.908	27.292	26.296	21.014	15.206	0.727166	0.316527	-0.29836	-1.33295	-1.23254
AE003853	347750	65.544	33.27	25.842	42.518	22.338	1.660998	1.166037	-0.35371	2.052423	0.166273
AE003853	348250	50.35	19.078	24.64	29.704	15.396	0.191992	-0.84729	-0.50228	0.037023	-1.19125

AE003853	348750	34.834	23.504	34.42	22.924	15.398	-1.30817	-0.21807	0.717827	-1.02878	-1.18882
AE003853	349250	33.432	10.898	20.462	28.838	21.044	-1.44251	-2.00628	-1.02051	-0.09687	-0.08104
AE003853	349750	40.356	19.196	27.854	39.504	15.764	-0.77112	-0.82748	-0.09802	1.58288	-1.11307
AE003853	350250	39.692	26.254	28.702	28.942	10.698	-0.83403	0.175317	0.008896	-0.07811	-2.10318
AE003853	350750	50.368	29.44	31.794	22.656	20.352	0.200441	0.628543	0.395482	-1.06617	-0.21045
AE003853	351250	54.948	21.938	40.12	25.12	27.898	0.644996	-0.43524	1.434376	-0.67721	1.269441
AE003853	351750	71.204	23.29	36.588	20.194	27.86	2.219455	-0.24232	0.995419	-1.45124	1.264037
AE003853	352250	67.084	22.134	31.594	25.268	13.838	1.822097	-0.40538	0.374254	-0.65152	-1.48008
AE003853	352750	44.398	13.694	22.292	37.532	13.884	-0.37192	-1.60229	-0.78381	1.279713	-1.46903
AE003853	353250	24.436	14.306	13.366	30.158	15.158	-2.30233	-1.51441	-1.89502	0.12043	-1.21748
AE003853	353750	45.32	22.616	26.402	30.978	20.374	-0.28001	-0.33391	-0.26912	0.250673	-0.19391
AE003853	354250	52.312	32.226	32.76	27.388	15.86	0.397954	1.031114	0.524502	-0.31311	-1.07592
AE003853	354750	45.064	31.482	31.592	28.162	13.378	-0.30211	0.926534	0.380168	-0.1901	-1.55998
AE003853	355250	43.566	31.492	30.224	28.028	23.53	-0.44573	0.928973	0.210908	-0.20999	0.43029
AE003853	355750	44.016	40.398	27.26	39.368	23.708	-0.40084	2.19407	-0.15726	1.575829	0.467188
AE003853	356250	58.998	32.808	27.648	39.824	23.914	1.050333	1.1178	-0.10767	1.648787	0.509571
AE003853	356750	64.716	36.616	49.556	55.836	27.91	1.605014	1.65931	2.623936	4.169863	1.294208
AE003853	357250	77.046	30.742	56.686	47.862	31.344	2.799548	0.826601	3.513774	2.916155	1.968781
AE003853	357750	42.692	17.364	19.004	16.06	11.912	-0.5236	-1.07119	-1.18127	-2.08747	-1.83486
AE003853	358250	40.682	29.93	28.596	23.016	11.926	-0.71677	0.713389	0.015407	-0.99158	-1.83008
AE003853	358750	36.968	31.35	25.846	32.526	18.168	-1.07484	0.915958	-0.32609	0.506248	-0.60557
AE003853	359250	53.818	30.662	24.742	25.47	18.296	0.557104	0.819326	-0.46245	-0.60299	-0.57846
AE003853	359750	48.152	32.2	29.774	30.088	30.438	0.010138	1.038642	0.165918	0.124961	1.801534
AE003853	360250	34.04	18.94	27.274	22.146	22.868	-1.35416	-0.8424	-0.14442	-1.12371	0.321019
AE003853	360750	32.798	20.928	24.148	24.598	15.442	-1.47301	-0.55921	-0.53278	-0.73663	-1.13129
AE003853	361250	34.53	20.596	8.954	26.216	13.828	-1.30406	-0.60532	-2.42516	-0.4808	-1.44535
AE003853	361750	39.224	24.922	14.012	25.502	16.678	-0.84847	0.009716	-1.79356	-0.59197	-0.88515
AE003853	362250	41.246	36.718	13.154	23.484	20.454	-0.65146	1.685006	-1.89925	-0.90836	-0.1436
AE003853	362750	46.714	33.724	26.752	24.488	17.758	-0.12097	1.261071	-0.20332	-0.74916	-0.66956
AE003853	363250	46.532	20.892	20.66	19.492	23.284	-0.13724	-0.55922	-0.96132	-1.53421	0.414719
AE003853	363750	43.604	20.216	18.04	23.094	19.304	-0.41925	-0.65415	-1.28662	-0.96615	-0.36271
AE003853	364250	35.25	22.982	23.812	21.788	20.638	-1.22634	-0.26054	-0.56603	-1.17048	-0.09941
AE003853	364750	29.538	19.134	35.69	23.298	27.406	-1.77775	-0.80569	0.915551	-0.93165	1.228109
AE003853	365250	41.34	27.538	28.148	23.732	24.082	-0.63432	0.388158	-0.02317	-0.86215	0.579155
AE003853	365750	49.076	30.774	26.568	35.292	19.85	0.11565	0.848481	-0.21885	0.958289	-0.24763
AE003853	366250	28.842	22.228	28.484	36.25	15.014	-1.84108	-0.36348	0.021171	1.11025	-1.1927
AE003853	366750	40.538	20.07	37.202	21.802	20.122	-0.7079	-0.66876	1.10892	-1.1623	-0.19028

AE003853	367250	53.034	29.89	27.802	24.676	19.696	0.502696	0.72607	-0.06136	-0.70881	-0.27167
AE003853	367750	44.302	27.764	27.738	34.622	26.436	-0.34097	0.425335	-0.0681	0.857632	1.050366
AE003853	368250	36.852	30.62	21.022	33.944	24.04	-1.06058	0.831722	-0.90388	0.752128	0.583157
AE003853	368750	38.724	29.134	23.372	29.024	22.054	-0.87808	0.621826	-0.60977	-0.02096	0.196245
AE003853	369250	46.302	21.5	33.228	34.04	23.44	-0.1434	-0.46069	0.619807	0.769628	0.469726
AE003853	369750	43.472	24.634	20.816	33.684	22.224	-0.41593	-0.01484	-0.92586	0.714799	0.233615
AE003853	370250	27.04	16.982	10.756	23.486	13.152	-2.00474	-1.09991	-2.17839	-0.88891	-1.54106
AE003853	370750	2.708	2.408	0.8	28.476	16.544	-4.35804	-3.16746	-3.41797	-0.10242	-0.87471
AE003853	371250	0	0	0	22.57	14.47	-4.61875	-3.50822	-3.51644	-1.03067	-1.27886
AE003853	371750	0	0	0	30.208	14.94	-4.61741	-3.5072	-3.51521	0.172549	-1.18477
AE003853	372250	0	0	0	33.364	13.998	-4.61607	-3.50618	-3.51397	0.670419	-1.36722
AE003853	372750	0.104	0.36	0	32.472	13.42	-4.60467	-3.45407	-3.51274	0.531237	-1.47838
AE003853	373250	0	0.478	0.066	33.234	16.268	-4.61339	-3.4363	-3.50328	0.652352	-0.91858
AE003853	373750	0	0	0	24.738	14.986	-4.61205	-3.50312	-3.51028	-0.68351	-1.16761
AE003853	374250	0.116	0	0	16.7	25.582	-4.59948	-3.5021	-3.50904	-1.94728	0.909607
AE003853	374750	0.464	0	0	13.782	15.652	-4.56446	-3.50108	-3.50781	-2.40531	-1.0331
AE003853	375250	0.138	2.244	0	24.646	12.196	-4.59467	-3.18156	-3.50658	-0.6944	-1.70791
AE003853	375750	0	0.97	0	29.356	16.382	-4.60668	-3.36137	-3.50535	0.048034	-0.88606
AE003853	376250	0	0.162	0.254	27.8	15.322	-4.60534	-3.47503	-3.47246	-0.19564	-1.09162
AE003853	376750	0.482	0.054	0.426	26.602	18.398	-4.55736	-3.48934	-3.44979	-0.38298	-0.48716
AE003853	377250	0.226	0	0.5	28.96	15.624	-4.58079	-3.49598	-3.43933	-0.0107	-1.0284
AE003853	377750	0.056	0	0	21.612	17.724	-4.5959	-3.49496	-3.50041	-1.16589	-0.61508
AE003853	378250	0.92	0.314	0.164	24.412	15.506	-4.51095	-3.44938	-3.47874	-0.72405	-1.04743
AE003853	378750	0.284	0.32	0.306	24.372	18.804	-4.57115	-3.4475	-3.45981	-0.72914	-0.3995
AE003853	379250	0	0.506	0.118	12.09	17.004	-4.59729	-3.42008	-3.48201	-2.66082	-0.74998
AE003853	379750	0.09	0	0	20.172	21.986	-4.58724	-3.49088	-3.49548	-1.38773	0.227762
AE003853	380250	0	0	0.214	23.94	25.832	-4.59461	-3.48986	-3.46758	-0.79354	0.983023
AE003853	380750	0.06	0	0.048	28.73	27.45	-4.58746	-3.48884	-3.48704	-0.03852	1.30194
AE003853	381250	0.66	0.25	0	27.3	18.466	-4.52806	-3.45234	-3.49179	-0.26237	-0.4555
AE003853	381750	0	0	0	24.81	17.954	-4.59059	-3.4868	-3.49055	-0.65304	-0.55374
AE003853	382250	0.078	0	0	18.8	17.5	-4.5817	-3.48578	-3.48932	-1.59766	-0.64061
AE003853	382750	0.332	0.24	0	28.602	17.658	-4.55578	-3.4507	-3.48809	-0.05388	-0.60763
AE003853	383250	1.138	0.08	0.368	24.276	16.17	-4.47644	-3.47239	-3.44099	-0.73349	-0.89701
AE003853	383750	2.032	1.666	1.26	26.53	14.652	-4.38858	-3.24626	-3.32859	-0.37757	-1.19227
AE003853	384250	10.164	8.41	5.34	38.646	21.476	-3.6003	-2.28803	-2.81887	1.530374	0.146222
AE003853	384750	0.476	0.316	0.122	28.708	16.522	-4.53648	-3.43583	-3.46795	-0.03242	-0.82196
AE003853	385250	0	0	0.136	27.984	23.398	-4.5812	-3.47967	-3.46498	-0.14516	0.526714

AE003853	385750	0	0	0	28.29	18.432	-4.57986	-3.47865	-3.48069	-0.09581	-0.44382
AE003853	386250	0.164	0	0.168	24.228	19.768	-4.56265	-3.47763	-3.45852	-0.73387	-0.18013
AE003853	386750	0	0.164	0.18	30.8	17.222	-4.57717	-3.45333	-3.45579	0.301594	-0.67672
AE003853	387250	0	0	0	37.302	19.572	-4.57583	-3.47559	-3.47699	1.326038	-0.21444
AE003853	387750	0	0	0	33.374	21.406	-4.57449	-3.47457	-3.47576	0.709067	0.146778
AE003853	388250	0.132	0	0	33.332	23.61	-4.56038	-3.47355	-3.47453	0.703653	0.580461
AE003853	388750	0.37	0.062	0.202	26.144	18.536	-4.536	-3.46373	-3.44812	-0.42636	-0.41122
AE003853	389250	0.478	0	0	29.662	17.702	-4.52421	-3.47151	-3.47206	0.128481	-0.57252
AE003853	389750	1.41	0	0	31.746	23.602	-4.43268	-3.47049	-3.47083	0.457645	0.585008
AE003853	390250	3.03	4.294	2.366	25.986	20.934	-4.27457	-2.86	-3.17473	-0.44764	0.064529
AE003853	390750	0.208	0.72	0.272	16.958	22.536	-4.54632	-3.36625	-3.43447	-1.86722	0.380312
AE003853	391250	0.04	0.138	0.064	22.342	13.926	-4.56123	-3.44784	-3.45916	-1.01872	-1.30388
AE003853	391750	0	0	0	28.376	18.46	-4.56376	-3.46641	-3.4659	-0.06792	-0.41388
AE003853	392250	0	0	0.094	32.818	23.732	-4.56242	-3.46539	-3.45295	0.632331	0.620657
AE003853	392750	0	0	0	28.378	16.83	-4.56108	-3.46437	-3.46344	-0.06522	-0.72903
AE003853	393250	0	0	0	28.496	15.226	-4.55974	-3.46335	-3.4622	-0.04545	-1.04113
AE003853	393750	0.212	0.298	0	23.678	15.3	-4.53788	-3.42003	-3.46097	-0.80248	-1.0246
AE003853	394250	0.412	0	0.228	27.558	14.604	-4.51719	-3.46131	-3.43132	-0.19068	-1.15887
AE003853	394750	11.526	6.946	5.086	27.502	14.444	-3.44033	-2.4744	-2.82464	-0.19829	-1.18817
AE003853	395250	44.534	25.798	27.256	31.434	23.71	-0.24475	0.202382	-0.06038	0.4217	0.628576
AE003853	395750	74.552	34.956	51.86	40.328	25.74	2.661479	1.503247	3.007227	1.822584	1.028181
AE003853	396250	56.976	31.916	41.176	25.644	27.312	0.961964	1.072783	1.676922	-0.48711	1.338089
AE003853	396750	50.712	30.008	40.124	21.212	16.738	0.357128	0.80299	1.547045	-1.18339	-0.73075
AE003853	397250	51.096	20.308	33.548	40.46	23.198	0.39563	-0.57276	0.728716	1.846946	0.536455
AE003853	397750	53.444	29.908	24.964	24.206	26.286	0.62419	0.790836	-0.33987	-0.70982	1.143265
AE003853	398250	46.098	18.948	23.24	24.172	19.91	-0.08535	-0.76376	-0.5535	-0.71398	-0.10341
AE003853	398750	51.95	12.312	19.104	23.27	21.006	0.482296	-1.70462	-1.06773	-0.85473	0.113274
AE003853	399250	50.74	27.108	26.04	30.016	18.62	0.366544	0.396476	-0.20207	0.208111	-0.35198
AE003853	399750	57.802	27.598	39.994	32.686	21.33	1.051286	0.467045	1.538239	0.629497	0.180804
AE003853	400250	47.764	31.528	39.962	37.588	18.442	0.081235	1.025871	1.535483	1.402142	-0.38276
AE003853	400750	35.15	24.2	43.64	35.332	14.966	-1.1381	-0.01321	1.995102	1.048301	-1.06148
AE003853	401250	35.28	24.044	32.78	30.508	18.014	-1.12418	-0.03433	0.642862	0.290323	-0.46251
AE003853	401750	43.2	21.524	26.53	23.34	19.814	-0.35641	-0.39099	-0.13484	-0.83654	-0.10795
AE003853	402250	54.386	14.286	27.392	24.27	15.904	0.727421	-1.4173	-0.02617	-0.68899	-0.87167
AE003853	402750	41.352	16.69	27.322	28.818	16.342	-0.53256	-1.07507	-0.03367	0.027948	-0.78385
AE003853	403250	53.938	22.046	20.764	29.636	21.25	0.68675	-0.31384	-0.84975	0.157876	0.179402
AE003853	403750	68.422	22.904	27.456	35.646	17.582	2.08973	-0.19104	-0.0145	1.104892	-0.53692

AE003853	404250	66.914	25.612	39.3	38.94	25.236	1.945139	0.19434	1.46284	1.62448	0.964119
AE003853	404750	53.872	29.392	38.228	32.208	25.234	0.684387	0.731875	1.33047	0.566231	0.965766
AE003853	405250	49.216	25.01	42.272	28.342	20.848	0.23516	0.110934	1.835703	-0.04098	0.108824
AE003853	405750	64.404	18.732	34.222	38.74	23.676	1.706267	-0.77912	0.833671	1.596593	0.664714
AE003853	406250	64.806	20.77	25.606	33.088	18.952	1.74651	-0.48883	-0.2389	0.708308	-0.25842
AE003853	406750	37.872	24.746	34.49	22.35	15.704	-0.85859	0.076523	0.869537	-0.98038	-0.89249
AE003853	407250	35.674	20.636	22.584	21.18	16.848	-1.06996	-0.50581	-0.61306	-1.16331	-0.66641
AE003853	407750	51.906	28.06	3.784	19.992	15.238	0.502181	0.548937	-2.95486	-1.34908	-0.97968
AE003853	408250	51.406	28.46	0.664	27.314	24.33	0.455137	0.606731	-3.34247	-0.19559	0.802987
AE003853	408750	52.588	27.62	23.816	21.428	22.398	0.570862	0.488525	-0.45582	-1.1207	0.42665
AE003853	409250	69.086	33.044	27.9	28.736	17.216	2.16874	1.259402	0.054394	0.030591	-0.58618
AE003853	409750	60.784	30.794	30.844	25.716	17.804	1.366684	0.941067	0.422535	-0.44348	-0.46899
AE003853	410250	38.662	20.876	22.85	25.568	14.252	-0.77275	-0.46563	-0.57252	-0.46558	-1.1626
AE003853	410750	32.708	23.346	27.136	18.552	17.096	-1.34759	-0.11403	-0.03712	-1.56852	-0.60357
AE003853	411250	42.632	27.104	19.216	22.016	15.144	-0.38589	0.420385	-1.02295	-1.02218	-0.98383
AE003853	411750	29.444	26.96	12.69	27.946	13.082	-1.66077	0.400966	-1.83505	-0.08776	-1.38562
AE003853	412250	33.222	34.646	18.57	25.29	12.736	-1.29383	1.492902	-1.101	-0.50455	-1.45135
AE003853	412750	34.438	28.446	21.836	32.566	14.866	-1.17481	0.613922	-0.69273	0.641706	-1.03216
AE003853	413250	44.518	27.046	31.95	27.402	12.624	-0.19801	0.416232	0.569003	-0.16978	-1.46921
AE003853	413750	48.174	21.642	26.86	29.19	20.406	0.157126	-0.34977	-0.06413	0.112802	0.056905
AE003853	414250	39.398	18.988	22.838	27.506	20.37	-0.6908	-0.72544	-0.56415	-0.15102	0.051892
AE003853	414750	32.982	18.646	23.156	19.534	18.312	-1.31034	-0.77297	-0.52329	-1.40441	-0.34912
AE003853	415250	28.236	29.354	24.882	25.26	16.916	-1.76828	0.747899	-0.30694	-0.50209	-0.62048
AE003853	415750	33.124	19.33	29.092	23.854	20.388	-1.29392	-0.67384	0.218977	-0.72216	0.061531
AE003853	416250	24.874	26.252	21.7	26.912	21.2	-2.09094	0.309655	-0.70105	-0.23972	0.222596
AE003853	416750	36.134	25.246	21.596	32.316	21.37	-0.99996	0.167888	-0.71278	0.61193	0.257928
AE003853	417250	45.356	21.812	24.814	30.428	17.756	-0.10619	-0.3185	-0.31049	0.316003	-0.44782
AE003853	417750	40.748	27.252	36.966	33.626	22.326	-0.55077	0.45465	1.205237	0.820483	0.449232
AE003853	418250	44.424	27.984	32.05	30.888	27.368	-0.1937	0.559567	0.593793	0.390788	1.438725
AE003853	418750	47.736	25.11	38.04	21.082	23.29	0.128152	0.152664	1.341554	-1.15123	0.642103
AE003853	419250	44.614	34.608	36.296	25.564	20.55	-0.17263	1.501787	1.125433	-0.44468	0.107524
AE003853	419750	35.818	27.02	22.74	38.402	23.806	-1.02249	0.4258	-0.56281	1.576887	0.747236
AE003853	420250	41.506	22.41	17.834	24.776	20.422	-0.47071	-0.2275	-1.173	-0.5663	0.086531
AE003853	420750	36.218	22.938	13.28	26.266	24.37	-0.9811	-0.15154	-1.73933	-0.33062	0.861768
AE003853	421250	37.658	22.696	22.76	35.158	25.482	-0.8404	-0.18487	-0.55662	1.069952	1.081587
AE003853	421750	43.512	25.02	20.952	37.232	26.168	-0.27256	0.146009	-0.78071	1.397543	1.217975
AE003853	422250	70.384	39.758	35.974	52.678	34.854	2.329223	2.238873	1.092698	3.829544	2.92113

AE003853	422750	56.996	19.664	20.396	35.098	24.152	1.034987	-0.61216	-0.84754	1.064098	0.827226
AE003853	423250	34.586	28.794	21.394	25.404	15.34	-1.13232	0.684733	-0.72193	-0.46029	-0.89653
AE003853	423750	29.56	22.428	26.862	22.22	19.034	-1.61735	-0.21781	-0.03922	-0.96018	-0.17104
AE003853	424250	35.242	25.692	29	26.25	16.092	-1.06616	0.246489	0.228465	-0.32476	-0.74518
AE003853	424750	49.478	26.04	26.54	25.884	14.938	0.312824	0.296902	-0.07689	-0.38117	-0.96915
AE003853	425250	60.932	29.44	14.11	31.14	19.444	1.422586	0.780503	-1.6248	0.447189	-0.08463
AE003853	425750	62.052	19.852	24.182	30.998	23.468	1.532311	-0.57935	-0.3683	0.426038	0.705495
AE003853	426250	55.504	24.502	22.112	30.756	20.77	0.899993	0.081665	-0.62505	0.389149	0.179141
AE003853	426750	54.036	33.514	17.244	35.434	18.718	0.759273	1.361807	-1.23051	1.126543	-0.2207
AE003853	427250	39.956	30.578	11.45	30.68	17.864	-0.60193	0.946105	-1.95138	0.379581	-0.38591
AE003853	427750	37.824	17.454	13.824	21.822	12.934	-0.8069	-0.91564	-1.65428	-1.01325	-1.34939
AE003853	428250	36.518	18.986	25.97	22.23	13.628	-0.93195	-0.69717	-0.1393	-0.94784	-1.21144
AE003853	428750	39.858	28.596	21.728	34.554	17.052	-0.60739	0.667848	-0.66674	0.992837	-0.53882
AE003853	429250	48.714	22.892	23.388	32.402	21.854	0.250962	-0.14073	-0.45863	0.655363	0.403665
AE003853	429750	53.56	34.724	23.928	25.788	19.712	0.721258	1.539668	-0.39009	-0.38432	-0.0138
AE003853	430250	44.542	27.686	21.88	32.314	23.34	-0.15009	0.541746	-0.6441	0.643906	0.698768
AE003853	430750	57.554	27.534	25.408	34.616	20.724	1.110446	0.521192	-0.20318	1.007378	0.188473
AE003853	431250	58.478	15.012	27.592	32.32	18.584	1.201204	-1.2551	0.070245	0.647243	-0.2286
AE003853	431750	49.718	15.936	32.296	27.204	12.916	0.354827	-1.12294	0.657733	-0.15669	-1.33662
AE003853	432250	47.236	20.454	25.67	27.216	15.3	0.115981	-0.48065	-0.16683	-0.1536	-0.86768
AE003853	432750	50.084	18.89	19.862	30.104	13.864	0.392928	-0.70162	-0.88944	0.302089	-1.14688
AE003853	433250	62.864	22.776	25.682	36.86	19.642	1.631009	-0.14904	-0.16287	1.366506	-0.01324
AE003853	433750	51.422	18.584	25.702	24.978	11.94	0.525091	-0.74301	-0.15914	-0.50222	-1.51961
AE003853	434250	56.52	19.744	34.944	12.89	20.316	1.019773	-0.57735	0.993914	-2.40337	0.122833
AE003853	434750	57.556	29.406	42.406	26.716	21.61	1.12137	0.795054	1.925129	-0.22631	0.378296
AE003853	435250	55.094	25.296	27.644	27.848	17.158	0.88446	0.212719	0.086586	-0.04697	-0.49157
AE003853	435750	111.104	62.118	81.682	83.37	73.796	6.305974	5.440086	6.822528	8.691971	10.60278
AE003853	436250	124.724	70.204	78.854	68.696	72.162	7.625343	6.588795	6.471309	6.383854	10.28481
AE003853	436750	58.474	35.582	37.936	36.792	23.922	1.215571	1.675727	1.372967	1.364177	0.839243
AE003853	437250	39.694	32.35	28.224	21.07	18.09	-0.60046	1.218011	0.163802	-1.10887	-0.30089
AE003853	437750	33.926	20.222	30.494	23.742	22.54	-1.15729	-0.50236	0.447943	-0.68717	0.57266
AE003853	438250	41.06	20.14	35.966	23.208	15.082	-0.46558	-0.51298	1.131146	-0.77001	-0.88592
AE003853	438750	32.088	26.886	23.016	23.572	21.956	-1.33248	0.445536	-0.48157	-0.71153	0.462362
AE003853	439250	48.522	24.138	17.556	26.176	8.386	0.259207	0.056517	-1.16081	-0.30053	-2.19323
AE003853	439750	64.57	25.024	18.464	26.336	11.434	1.813538	0.183292	-1.04642	-0.27415	-1.59425
AE003853	440250	58.614	23.268	26.408	30.122	19.336	1.238508	-0.06493	-0.05513	0.322861	-0.04464
AE003853	440750	44.944	29.428	23.548	35.34	18.228	-0.08302	0.810415	-0.41034	1.145237	-0.2596

AE003853	441250	51.216	19.806	32.66	35.074	18.136	0.525275	-0.55427	0.726518	1.104571	-0.27558
AE003853	441750	45.136	29.068	24.342	30.266	18.694	-0.06175	0.761358	-0.30891	0.349111	-0.16426
AE003853	442250	41.842	30.906	23.048	24.746	17.072	-0.37918	1.023255	-0.46895	-0.5184	-0.47988
AE003853	442750	46.622	28.206	15.676	27.568	13.88	0.08473	0.641049	-1.38649	-0.07309	-1.10299
AE003853	443250	53.552	17.214	18.986	30.126	12.69	0.756698	-0.91808	-0.97273	0.330666	-1.334
AE003853	443750	38.546	30.122	25.824	31.29	9.09	-0.69411	0.915037	-0.11928	0.515046	-2.03701
AE003853	444250	53.322	27.632	27.766	31.158	19.36	0.737123	0.562638	0.123979	0.495468	-0.02364
AE003853	444750	41.872	32.324	26.85	31.888	23.084	-0.36957	1.229619	0.011051	0.611548	0.707731
AE003853	445250	37.71	26.854	25.81	27.988	27.526	-0.77099	0.454252	-0.11733	-0.00102	1.579716
AE003853	445750	47.136	25.25	36.64	32.734	23.942	0.142519	0.227607	1.233635	0.747078	0.879843
AE003853	446250	48.996	27.368	25.54	26.456	16.898	0.323855	0.529247	-0.14852	-0.23972	-0.49766
AE003853	446750	54.68	18.906	27.616	24.65	16.068	0.875246	-0.67079	0.111447	-0.52274	-0.65817
AE003853	447250	56.88	22.066	30.36	29.59	17.712	1.089484	-0.22126	0.454662	0.255881	-0.33416
AE003853	447750	38.088	25.322	35.22	31.46	19.25	-0.7277	0.241906	1.061593	0.551367	-0.03091
AE003853	448250	38.126	23.094	33.636	34.554	29.58	-0.72269	-0.07331	0.865413	1.03948	1.994211
AE003853	448750	41.566	20.322	26.966	28.454	25.868	-0.38845	-0.46573	0.035369	0.080691	1.269269
AE003853	449250	51.138	16.502	20.74	23.776	22.36	0.539187	-1.0069	-0.73934	-0.65431	0.58428
AE003853	449750	46.242	26.744	21.442	20.286	19.614	0.066735	0.447818	-0.65062	-1.20235	0.048525
AE003853	450250	55.26	29.038	28.742	27.894	17.602	0.940762	0.774438	0.260408	-0.00385	-0.34348
AE003853	450750	43.586	26.558	21.768	25.704	24.718	-0.18761	0.423458	-0.60752	-0.3473	1.052198
AE003853	451250	34.938	27.856	14.39	26.18	22.57	-1.02315	0.60871	-1.5258	-0.2712	0.633559
AE003853	451750	40.842	21.718	12.864	19.276	22.392	-0.45047	-0.26147	-1.71476	-1.35652	0.600737
AE003853	452250	33.342	19.604	26.74	23.536	24.126	-1.17491	-0.5605	0.015831	-0.6849	0.942371
AE003853	452750	45.654	18.314	24.84	28.246	23.684	0.017881	-0.74258	-0.21973	0.057525	0.857845
AE003853	453250	53.264	31.756	30.484	28.432	20.898	0.755654	1.166337	0.484908	0.087993	0.314257
AE003853	453750	45.306	27.44	23.692	36.09	19.324	-0.01311	0.554764	-0.36034	1.294362	0.008033
AE003853	454250	45.216	16.056	30.5	24.406	24.304	-0.02048	-1.06001	0.489367	-0.5432	0.985384
AE003853	454750	49.562	32.146	35.302	25.09	18.298	0.401429	1.224752	1.089069	-0.43436	-0.18883
AE003853	455250	54.146	31.636	38.298	26.348	19.27	0.846371	1.153385	1.463691	-0.23519	0.003571
AE003853	455750	47.63	25.494	31.374	35.89	16.992	0.217149	0.282637	0.601991	1.267671	-0.44053
AE003853	456250	43.65	24.692	32.998	36.496	19.994	-0.16666	0.169825	0.805622	1.364236	0.14944
AE003853	456750	65.264	18.484	32.778	37.092	25.664	1.926301	-0.71029	0.779436	1.459227	1.261924
AE003853	457250	70.014	19.434	29.768	33.622	25.99	2.387307	-0.57443	0.405535	0.914334	1.327807
AE003853	457750	49.316	14.954	34.336	23.052	26.638	0.385671	-1.20928	0.976073	-0.74792	1.456753
AE003853	458250	59.47	24.34	29.374	25.842	23.412	1.369631	0.123943	0.358896	-0.30765	0.826992
AE003853	458750	56.586	21.07	25.906	32.78	18.324	1.091883	-0.33917	-0.07209	0.785412	-0.16743
AE003853	459250	43.784	19.044	29.816	25.326	25.54	-0.14564	-0.62571	0.416447	-0.38646	1.247828

AE003853	459750	41.97	25.49	35.436	31.504	25.228	-0.31985	0.290228	1.118096	0.586994	1.188762
AE003853	460250	51.596	28.966	30.828	35.932	11.706	0.613017	0.784616	0.545037	1.285044	-1.45743
AE003853	460750	55.144	31.328	30.39	28.778	15.988	0.957703	1.120887	0.491682	0.160384	-0.61678
AE003853	461250	37.38	32.18	30.912	27.32	19.058	-0.76	1.242836	0.557972	-0.06787	-0.01349
AE003853	461750	43.452	20.764	24.53	24.634	19.412	-0.17107	-0.37648	-0.23618	-0.48938	0.057875
AE003853	462250	60.806	18.46	24.494	21.49	15.6	1.509648	-0.70248	-0.23943	-0.98297	-0.68665
AE003853	462750	48.754	18.726	30.34	23.488	18.86	0.344699	-0.6637	0.490382	-0.66734	-0.04616
AE003853	463250	62.002	17.002	27.47	32.538	15.276	1.628069	-0.90738	0.133929	0.758091	-0.74603
AE003853	463750	48.72	22.628	29.204	27.216	20.836	0.344091	-0.10783	0.351268	-0.07826	0.344911
AE003853	464250	41.34	21.32	33.89	34.134	24.984	-0.36874	-0.29246	0.936513	1.011653	1.159317
AE003853	464750	46.924	28.296	35.222	24.536	21.866	0.172972	0.698698	1.103752	-0.49763	0.550708
AE003853	465250	48.186	30.282	29.346	15.74	18.246	0.296439	0.981601	0.372663	-1.8807	-0.15622
AE003853	465750	38.384	23.926	36.12	23.488	20.142	-0.65077	0.080479	1.218134	-0.66017	0.217145
AE003853	466250	48.034	27.77	35.272	38.156	18.726	0.284412	0.627099	1.113681	1.649397	-0.05813
AE003853	466750	45.14	19.1	29.158	27.38	16.244	0.005697	-0.60246	0.352931	-0.04527	-0.54219
AE003853	467250	36.682	28.146	31.682	28.836	16.754	-0.81146	0.682507	0.668728	0.185059	-0.44027
AE003853	467750	46.656	26.116	21.306	25.096	18.54	0.155085	0.395398	-0.62319	-0.40233	-0.08845
AE003853	468250	38.302	20.452	19.958	33.27	23.666	-0.652	-0.4075	-0.78996	0.885249	0.917496
AE003853	468750	37.468	36.848	32.662	37.756	17.87	-0.73137	1.920688	0.794562	1.592427	-0.21559
AE003853	469250	40.798	27.626	30.336	32.864	24.892	-0.40778	0.61278	0.505907	0.823747	1.161679
AE003853	469750	39.332	27.69	25.274	28.614	26.882	-0.5483	0.622883	-0.12373	0.156101	1.55345
AE003853	470250	45.6	26.008	37.532	31.794	20.068	0.0596	0.385168	1.405204	0.657748	0.220994
AE003853	470750	47.424	25.5	34.686	27.162	18.444	0.237453	0.314084	1.051742	-0.07001	-0.09502
AE003853	471250	53.002	26.622	40.79	27.902	14.116	0.778586	0.474356	1.813711	0.047639	-0.9406
AE003853	471750	55.312	30.356	27.938	32.104	16.338	1.003469	1.005363	0.21321	0.710122	-0.5034
AE003853	472250	52.294	25.15	19.206	31.31	19.332	0.712754	0.267467	-0.87382	0.586363	0.085003
AE003853	472750	63.782	31.07	28.878	25.28	18.73	1.825807	1.108744	0.332827	-0.36141	-0.03086
AE003853	473250	54.31	22.594	24.612	14.2	22.87	0.910528	-0.09328	-0.19761	-2.10392	0.781982
AE003853	473750	45.898	29.082	17.72	22.068	31.178	0.097827	0.828616	-1.05532	-0.8645	2.411107
AE003853	474250	65.794	28.808	26.4	34.278	32.864	2.024535	0.790746	0.027693	1.058234	2.743341
AE003853	474750	65.578	30.39	30.168	35.206	22.522	2.004973	1.016308	0.498529	1.205473	0.719941
AE003853	475250	57.686	27.75	38.422	32.778	18.118	1.242594	0.642618	1.52845	0.824564	-0.14053
AE003853	475750	45.026	39.83	35.55	28.34	26.534	0.018808	2.358218	1.171748	0.127332	1.509751
AE003853	476250	48.192	29.642	28.196	27.854	19.49	0.326528	0.913199	0.256458	0.052044	0.13225
AE003853	476750	48.628	33.304	28.546	28.062	11.128	0.370061	1.433987	0.301311	0.085974	-1.50337
AE003853	477250	54.852	26.502	24.618	32.244	19.316	0.973709	0.469562	-0.187	0.74531	0.102249
AE003853	477750	56.3	20.824	26.696	26.516	14.388	1.115175	-0.33533	0.073212	-0.15493	-0.86084

AE003853	478250	57.536	24.15	29.458	18.312	18.522	1.236126	0.13777	0.41867	-1.44484	-0.04918
AE003853	478750	46.264	26.416	32.646	26.554	18.92	0.146659	0.460415	0.817221	-0.14656	0.030808
AE003853	479250	42.266	23.106	31.396	40.346	15.904	-0.23889	-0.00837	0.662667	2.025141	-0.55783
AE003853	479750	41.66	24.256	31.622	30.394	13.28	-0.29619	0.155874	0.692066	0.460147	-1.06969
AE003853	480250	38.414	23.9	28.488	27.714	14.324	-0.60897	0.106365	0.302711	0.039579	-0.86319
AE003853	480750	36.074	26.276	25.916	28.076	16.302	-0.83408	0.444624	-0.0166	0.097745	-0.47376
AE003853	481250	37.258	24.108	16.97	27.104	18.834	-0.71816	0.137927	-1.1303	-0.05403	0.024155
AE003853	481750	35.75	16.44	16.012	21.428	14.942	-0.86275	-0.94941	-1.24846	-0.94609	-0.73604
AE003853	482250	40.344	24.318	19.004	27.39	20.532	-0.41684	0.169774	-0.87434	-0.00663	0.360777
AE003853	482750	47.488	25.42	42.046	17.288	24.718	0.275837	0.327206	1.998596	-1.59523	1.182625
AE003853	483250	43.458	23.332	37.212	26.258	17.61	-0.11281	0.031865	1.397371	-0.18238	-0.20741
AE003853	483750	41.544	21.232	31.388	26.374	23.454	-0.29669	-0.26518	0.672764	-0.16293	0.939152
AE003853	484250	35.718	18.444	27.822	20.278	13.658	-0.85914	-0.65988	0.229569	-1.12109	-0.97732
AE003853	484750	28.272	28.64	31.914	35.206	24.99	-1.57836	0.788318	0.740784	1.229392	1.244047
AE003853	485250	37.786	22.492	26.96	32.444	30.286	-0.65633	-0.08328	0.124604	0.79592	2.283285
AE003853	485750	41.238	21.18	18.426	38.31	18.898	-0.32094	-0.26848	-0.93775	1.720274	0.05503
AE003853	486250	41.56	14.808	17.57	33.314	20.914	-0.28844	-1.17187	-1.0432	0.935228	0.451893
AE003853	486750	52.958	15.708	14.046	24.944	23.524	0.815908	-1.04311	-1.48116	-0.3808	0.965089
AE003853	487250	37.324	24.116	14.152	17.084	17.784	-0.69568	0.151301	-1.46672	-1.61657	-0.15703
AE003853	487750	41.212	26.298	20.264	27.718	12.478	-0.31809	0.462024	-0.70375	0.058148	-1.19415
AE003853	488250	35.206	15.81	22.384	24.888	16.016	-0.89796	-1.02557	-0.4383	-0.38603	-0.49921
AE003853	488750	47.232	19.774	28.212	27.628	25.89	0.267159	-0.46192	0.289268	0.046377	1.436612
AE003853	489250	41.464	21.484	21.524	26.36	22.118	-0.28968	-0.21819	-0.54302	-0.15198	0.699919
AE003853	489750	36.38	18.962	26.632	29.218	14.342	-0.78032	-0.57513	0.094819	0.298994	-0.82094
AE003853	490250	43.858	22.976	25.356	24.934	26.54	-0.05532	-0.00439	-0.06297	-0.374	1.570025
AE003853	490750	53.052	25.852	33.926	25.294	23.368	0.835734	0.40484	1.006329	-0.31615	0.95084
AE003853	491250	49.742	20.958	33.876	30.614	13.58	0.516762	-0.28877	1.00133	0.522276	-0.96406
AE003853	491750	51.938	14.326	29.062	22.602	12.492	0.730613	-1.22907	0.402599	-0.73741	-1.1751
AE003853	492250	47.666	22.044	22.844	21.676	19.988	0.318547	-0.13259	-0.37111	-0.88194	0.294995
AE003853	492750	41.894	22.632	22.072	24.724	15.708	-0.23868	-0.04811	-0.46609	-0.40107	-0.54119
AE003853	493250	48.334	27.124	20.904	31.23	14.162	0.385873	0.590481	-0.61043	0.624003	-0.84193
AE003853	493750	43.994	30.692	27.218	28.156	10.824	-0.03277	1.097927	0.177713	0.14143	-1.49362
AE003853	494250	56.498	34.332	30.914	22.33	17.206	1.178598	1.615592	0.639575	-0.77424	-0.2417
AE003853	494750	58.954	32.836	26.994	24.598	13.26	1.41761	1.404276	0.152261	-0.41612	-1.01247
AE003853	495250	50.098	20.666	25.08	36.208	14.652	0.561943	-0.32206	-0.08505	1.412197	-0.73781
AE003853	495750	50.234	25.976	29.554	21.524	14.42	0.576445	0.432639	0.473777	-0.89749	-0.78121
AE003853	496250	47.188	21.38	29.582	21.73	9.676	0.28302	-0.21868	0.478499	-0.86388	-1.70826

AE003853	496750	60.626	28.008	34.008	27.328	13.256	1.584777	0.723091	1.031341	0.018299	-1.0051
AE003853	497250	55.328	34.226	21.866	28.752	16.676	1.073423	1.606666	-0.48067	0.243597	-0.33327
AE003853	497750	49.07	29.608	18.462	22.098	13.91	0.469168	0.952228	-0.90368	-0.80238	-0.87294
AE003853	498250	52.486	25.238	29.402	22.554	14.62	0.801081	0.33299	0.460997	-0.72942	-0.73185
AE003853	498750	61.046	29.568	36.19	28.716	19.122	1.630786	0.94859	1.308212	0.241519	0.151886
AE003853	499250	61.2	34.582	30.202	38.618	17.23	1.647031	1.661274	0.563165	1.801037	-0.21662
AE003853	499750	57.022	29.514	28.878	29.536	15.534	1.24406	0.942965	0.399389	0.372958	-0.54673
AE003853	500250	52.44	24.37	43.842	27.92	11.03	0.801995	0.213869	2.265572	0.119837	-1.42679
AE003853	500750	40.528	23.99	38.974	28.424	16.964	-0.34941	0.160954	1.66011	0.200349	-0.2626
AE003853	501250	40.708	27.732	37.752	26.62	19.548	-0.33065	0.693096	1.509046	-0.08236	0.245506
AE003853	501750	46.858	18.622	31.516	24.572	18.17	0.26584	-0.59892	0.733091	-0.40346	-0.02233
AE003853	502250	42.502	15.136	30.82	24.44	19.262	-0.15436	-1.09268	0.647582	-0.42304	0.19357
AE003853	502750	41.6	13.01	31.938	22.506	20.934	-0.2403	-1.39342	0.78815	-0.72621	0.523062
AE003853	503250	34.37	17.75	27.5	30.04	21.358	-0.93862	-0.71962	0.236278	0.460646	0.608138
AE003853	503750	39.88	26.292	18.65	31.764	28.192	-0.40407	0.493808	-0.86546	0.733156	1.948587
AE003853	504250	44.642	30.902	20.358	37.324	17.802	0.058101	1.14915	-0.65136	1.609354	-0.08421
AE003853	504750	51.928	32.668	23.118	35.988	22.806	0.764519	1.400828	-0.30615	1.400297	0.897837
AE003853	505250	65.442	30.608	26.47	33.718	18.812	2.073631	1.109461	0.112841	1.044253	0.117666
AE003853	505750	45.14	30.712	17.932	26.342	21.144	0.110317	1.125242	-0.95001	-0.11534	0.576417
AE003853	506250	44.072	37.04	24.848	39.5	22.576	0.008306	2.02443	-0.08684	1.956584	0.858906
AE003853	506750	44.652	35.458	26.612	33.682	21.388	0.065775	1.800908	0.134236	1.042176	0.628279
AE003853	507250	40.2	20.052	28.3	29.318	24.922	-0.36371	-0.38473	0.345843	0.35659	1.322436
AE003853	507750	42.154	33.472	26.014	23.456	24.536	-0.17328	1.521063	0.062173	-0.56474	1.248878
AE003853	508250	45.814	32.992	29.566	26.644	18.948	0.182247	1.453954	0.506089	-0.06184	0.156529
AE003853	508750	55.8	31.314	28.136	21.668	15.796	1.149949	1.216807	0.329102	-0.84374	-0.45874
AE003853	509250	61.538	28.692	19.392	19.534	9.122	1.706565	0.845672	-0.75942	-1.17838	-1.76378
AE003853	509750	43.606	24.27	25.408	31.74	8.27	-0.0274	0.219053	-0.00842	0.74373	-1.9286
AE003853	510250	46.58	23.644	20.698	27.968	12.222	0.261739	0.131221	-0.59419	0.15131	-1.15258
AE003853	510750	59.352	24.16	23.532	30.726	18.146	1.499046	0.20548	-0.23976	0.586544	0.00965
AE003853	511250	50.666	20.388	31.62	20.356	19.972	0.65983	-0.32888	0.769473	-1.04423	0.369303
AE003853	511750	36.252	27.36	19.882	28.414	15.018	-0.73369	0.661713	-0.69219	0.225087	-0.59888
AE003853	512250	40.634	28.5	29.116	22.46	14.334	-0.3083	0.824539	0.459867	-0.71072	-0.7308
AE003853	512750	50.558	23.662	30.61	30.444	17.464	0.653403	0.138876	0.647295	0.546949	-0.11576
AE003853	513250	44.312	16.516	26.982	32.014	16.044	0.050309	-0.87438	0.196373	0.795223	-0.39183
AE003853	513750	45.01	23.482	23.166	29.234	15.032	0.119197	0.115367	-0.27798	0.358918	-0.58799
AE003853	514250	45.684	20.666	34.618	22.478	20.1	0.185762	-0.2833	1.150507	-0.70311	0.406599
AE003853	514750	55.282	15.856	29.624	29.1	12.708	1.115916	-0.96499	0.529341	0.340221	-1.03906

AE003853	515250	66.816	19.304	38.03	33.872	21.826	2.23342	-0.47458	1.578206	1.092408	0.748704
AE003853	515750	62.818	18.672	27.188	38.024	13.874	1.847869	-0.56326	0.22821	1.747023	-0.80662
AE003853	516250	64.496	29.516	29.364	33.264	16.348	2.011593	0.976905	0.500636	0.999116	-0.32006
AE003853	516750	48.33	39.89	36.708	22.014	18.35	0.448526	2.450363	1.417145	-0.77015	0.074058
AE003853	517250	40.26	24.996	28.012	21.876	19.584	-0.33108	0.337396	0.334602	-0.79067	0.31777
AE003853	517750	30.626	25.492	18.754	22.662	18.728	-1.26203	0.408816	-0.81798	-0.66578	0.152163
AE003853	518250	37.43	22.192	26.834	23.394	19.084	-0.60226	-0.05855	0.190255	-0.54939	0.223923
AE003853	518750	43.54	24.258	30.882	21	24.244	-0.00964	0.235707	0.695986	-0.92494	1.236525
AE003853	519250	51.734	21.418	25.176	21.096	17.298	0.784643	-0.16637	-0.01392	-0.90864	-0.12178
AE003853	519750	52.256	25.512	30.558	32.722	17	0.836499	0.415734	0.658071	0.922191	-0.17811
AE003853	520250	50.786	24.538	23.826	39.504	19.968	0.695586	0.278509	-0.1797	1.9907	0.405202
AE003853	520750	48.828	25.598	27.232	28.34	15.122	0.507448	0.42998	0.24602	0.234968	-0.54183
AE003853	521250	48.696	33.156	29.43	25.102	21.118	0.496016	1.503748	0.521188	-0.27341	0.634501
AE003853	521750	51.128	22.45	23.47	27.942	14.15	0.732705	-0.01479	-0.22037	0.174725	-0.72812
AE003853	522250	43.428	15.86	19.362	25.678	14.288	-0.01109	-0.94913	-0.73111	-0.18037	-0.69905
AE003853	522750	45.98	16.532	28.594	17.536	22.12	0.237208	-0.85273	0.420696	-1.46052	0.836852
AE003853	523250	45.224	27.87	25.624	18.024	17.72	0.16539	0.757557	0.05178	-1.38253	-0.02283
AE003853	523750	42.374	31.006	17.588	25.006	11.094	-0.10907	1.203686	-0.94851	-0.28254	-1.31847
AE003853	524250	40.162	26.318	31.53	35.03	7.776	-0.32178	0.539313	0.790305	1.296175	-1.96625
AE003853	524750	43.624	26.42	29.344	24.084	12.536	0.01458	0.55481	0.519098	-0.42525	-1.03198
AE003853	525250	46.712	23.268	20.396	18.584	13.6	0.314751	0.10845	-0.59485	-1.28961	-0.82157
AE003853	525750	42.096	28.308	18.468	22.014	27.342	-0.1306	0.824824	-0.8339	-0.74862	1.871786
AE003853	526250	47.986	25.322	19.754	17.332	22.75	0.440721	0.402025	-0.6724	-1.48425	0.9745
AE003853	526750	47.52	21.89	29.056	23.648	18.986	0.396967	-0.08408	0.488135	-0.48908	0.239374
AE003853	527250	49.116	15.948	30.098	35.22	23.678	0.552755	-0.92644	0.619232	1.333252	1.160321
AE003853	527750	42.672	21.466	31.406	24.74	18.874	-0.0695	-0.14222	0.783479	-0.31484	0.221515
AE003853	528250	53.822	29.772	24.786	24.078	20.682	1.010845	1.037717	-0.04033	-0.41782	0.577643
AE003853	528750	43.866	19.366	24.94	27.116	16.174	0.048729	-0.43824	-0.01991	0.061477	-0.30319
AE003853	529250	43.27	16.562	29.586	24.89	28.146	-0.00761	-0.83521	0.560352	-0.28764	2.043512
AE003853	529750	45.992	18.372	37.158	23.346	31.478	0.257147	-0.57729	1.505276	-0.52943	2.698108
AE003853	530250	36.05	23.08	31.054	25.966	16.136	-0.70361	0.091964	0.745773	-0.11592	-0.30452
AE003853	530750	33.04	24.832	22.136	23.504	13.472	-0.99355	0.341655	-0.36444	-0.50218	-0.82422
AE003853	531250	38.048	24.934	19.868	16.098	20.772	-0.50758	0.357152	-0.64586	-1.66649	0.607496
AE003853	531750	34.982	22.998	21.672	18.546	20.754	-0.80294	0.083385	-0.4198	-1.28005	0.606009
AE003853	532250	36.048	20.072	22.174	23.588	20.636	-0.69844	-0.3309	-0.356	-0.48537	0.584937
AE003853	532750	45.704	30.254	22.144	29.654	30.288	0.237325	1.115308	-0.35851	0.470461	2.477279
AE003853	533250	51.95	34.62	35.048	30.278	24.062	0.843101	1.736018	1.250937	0.569859	1.259981

AE003853	533750	43.628	20.786	33.16	26.662	17.2	0.03911	-0.2265	1.01687	0.001989	-0.08188
AE003853	534250	31.884	28.012	30.246	31.792	14.996	-1.09603	0.800149	0.654934	0.810515	-0.51148
AE003853	534750	38.612	30.588	25.198	26.614	17.616	-0.44361	1.166794	0.027038	-0.00317	0.003672
AE003853	535250	44.13	23.806	29.854	22.624	19.984	0.091713	0.205208	0.608544	-0.6299	0.469473
AE003853	535750	52.05	19.862	17.862	24.896	16.344	0.859485	-0.35357	-0.88478	-0.27115	-0.24137
AE003853	536250	42.212	20.882	19.554	32.614	20.588	-0.22206	-0.38449	-0.86983	0.85738	0.475185
AE003853	536750	44.932	27.56	20.722	32.03	21.84	0.039814	0.562334	-0.7255	0.764278	0.718346
AE003853	537250	37.23	28.24	20.052	29.192	21.134	-0.70686	0.65783	-0.81023	0.316453	0.578041
AE003853	537750	48.148	19.974	20.236	24.192	15.192	0.348348	-0.51643	-0.78854	-0.47162	-0.58771
AE003853	538250	50.494	19.694	31.214	22.066	15.684	0.574033	-0.55719	0.57841	-0.80739	-0.4934
AE003853	538750	62.304	17.798	42.626	16.482	20.982	1.715563	-0.82732	1.999445	-1.68736	0.542158
AE003853	539250	49.236	24.562	36.37	16.116	21.092	0.449612	0.131712	1.218533	-1.74616	0.561663
AE003853	539750	50.048	26.022	31.422	22.052	14.344	0.526849	0.337918	0.600635	-0.81318	-0.76194
AE003853	540250	48.47	29.59	24.936	27.444	14.196	0.372802	0.843324	-0.20894	0.034187	-0.79297
AE003853	540750	49.378	21.054	19.304	25.568	19.604	0.45933	-0.36926	-0.91209	-0.26224	0.264131
AE003853	541250	39.246	20.012	25.608	22.824	16.362	-0.5225	-0.51817	-0.12766	-0.69527	-0.37284
AE003853	541750	39.446	19.692	30.722	29.196	24.75	-0.50449	-0.56461	0.508464	0.306319	1.267878
AE003853	542250	50.486	32.994	24.922	21.608	24.822	0.562529	1.322392	-0.21562	-0.88903	1.279941
AE003853	542750	52.446	29.02	27.596	21.38	19.942	0.750859	0.757321	0.116408	-0.92611	0.322175
AE003853	543250	36.444	24.896	23.454	26.962	22.772	-0.79902	0.17096	-0.40104	-0.04884	0.874381
AE003853	543750	36.676	19.38	28.482	22.792	18.528	-0.77791	-0.61298	0.224365	-0.70629	0.041173
AE003853	544250	35.318	20.96	25.948	21.23	19.722	-0.91067	-0.38974	-0.09268	-0.95331	0.272975
AE003853	544750	39.902	23.04	13.758	20.616	22.748	-0.46841	-0.09553	-1.61314	-1.05113	0.863567
AE003853	545250	44.498	25.056	22.17	19.638	12.27	-0.02499	0.18959	-0.56599	-1.20624	-1.19054
AE003853	545750	39.682	17.75	39.468	24.236	14.318	-0.49238	-0.84841	1.58861	-0.48383	-0.79149
AE003853	546250	46.79	22.386	28.166	30.988	18.708	0.194131	-0.19142	0.178819	0.57757	0.066236
AE003853	546750	35.62	30.218	22.152	36.086	21.678	-0.88815	0.919201	-0.57193	1.378669	0.64586
AE003853	547250	32.346	26.204	19.478	21.822	17.1	-1.20632	0.348452	-0.90642	-0.86732	-0.25276
AE003853	547750	33.296	29.254	17.498	18.252	17.018	-1.11573	0.780335	-1.15442	-1.43034	-0.27086
AE003853	548250	31.314	22.444	22.68	27.336	23.944	-1.30887	-0.18726	-0.50983	-0.00194	1.083533
AE003853	548750	43.182	24.164	29.77	22.494	24.01	-0.16173	0.055844	0.37256	-0.76515	1.094421
AE003853	549250	47.196	24.896	29.428	20.538	19.108	0.225372	0.158721	0.328705	-1.07417	0.132347
AE003853	549750	37.208	21.218	32.61	25.83	17.876	-0.74252	-0.36434	0.724042	-0.24254	-0.11097
AE003853	550250	43.036	27.2	30.316	23.998	19.046	-0.17988	0.483701	0.43691	-0.53204	0.116128
AE003853	550750	26.952	26.696	31.664	20.22	21.776	-1.73769	0.411145	0.603677	-1.1278	0.64875
AE003853	551250	39.576	26.84	31.022	15.506	16.512	-0.51739	0.430564	0.522433	-1.87086	-0.38422
AE003853	551750	50.83	14.968	25.124	31.152	12.104	0.570334	-1.25551	-0.21386	0.590224	-1.24955

AE003853	552250	48.406	30.098	29.298	25.42	23.608	0.334418	0.89095	0.305107	-0.31304	1.001425
AE003853	552750	46.218	26.92	30.104	31.686	23.748	0.121341	0.438859	0.404325	0.67187	1.026806
AE003853	553250	44.084	22.428	19.376	31.612	12.67	-0.08651	-0.19973	-0.93393	0.659029	-1.14481
AE003853	553750	37.716	17.73	32.432	30.254	14.116	-0.70409	-0.86757	0.691997	0.444118	-0.86366
AE003853	554250	43.584	19.46	26.55	21.806	23.766	-0.13758	-0.62304	-0.0423	-0.88658	1.024217
AE003853	554750	32.16	19.668	27.738	34.62	21.582	-1.24444	-0.59454	0.104522	1.128823	0.594452
AE003853	555250	32.416	23.57	23.97	26.308	14.36	-1.22101	-0.04172	-0.36631	-0.18047	-0.82198
AE003853	555750	48.738	25.098	23.174	27.916	23.408	0.357157	0.174134	-0.46675	0.071393	0.947991
AE003853	556250	44.704	21.696	26.038	25.584	19.404	-0.03456	-0.30975	-0.11105	-0.2968	0.161786
AE003853	556750	28.41	26.142	25.708	26.754	15.012	-1.6127	0.320275	-0.15341	-0.11387	-0.70041
AE003853	557250	41.092	23.776	24.332	22.588	27.686	-0.38678	-0.01656	-0.32613	-0.77069	1.779706
AE003853	557750	40.926	17.954	26.536	20.442	26.384	-0.40419	-0.84393	-0.05268	-1.10961	1.522676
AE003853	558250	43.26	19.99	25.948	24.45	17.396	-0.17966	-0.55597	-0.12719	-0.48005	-0.23962
AE003853	558750	41.982	21.364	20.288	37.848	19.422	-0.30468	-0.36197	-0.83383	1.62726	0.155122
AE003853	559250	42.396	32.756	21.298	29.666	14.338	-0.26596	1.253936	-0.70918	0.338427	-0.8426
AE003853	559750	47.312	24.416	18.398	23.132	14.294	0.208431	0.069175	-1.07184	-0.69105	-0.85325
AE003853	560250	51.8	18.178	25.524	31.966	12.684	0.6414	-0.81724	-0.18497	0.697996	-1.1706
AE003853	560750	44.89	20.814	29.81	24.522	15.632	-0.02863	-0.44412	0.347962	-0.4747	-0.59529
AE003853	561250	48.242	23.134	30.062	34.22	24.17	0.294405	-0.11585	0.378136	1.050326	1.074808
AE003853	561750	48.34	18.848	30.878	22.19	23.006	0.302547	-0.7252	0.478601	-0.84408	0.844806
AE003853	562250	44.45	15.202	33.698	34.002	24.932	-0.07524	-1.24372	0.828822	1.013626	1.219967
AE003853	562750	41.454	25.522	35.722	35.784	20.09	-0.3665	0.220036	1.079839	1.292872	0.269643
AE003853	563250	41.056	23.288	17.492	31.564	22.702	-0.40636	-0.09807	-1.19338	0.627556	0.779155
AE003853	563750	38.364	14.862	28.286	25.354	25.798	-0.66821	-1.29503	0.150632	-0.35094	1.383456
AE003853	564250	47.656	17.698	41.964	34.924	24.778	0.229649	-0.89353	1.854076	1.153942	1.181655
AE003853	564750	57.246	27.182	35.15	33.198	19.704	1.156346	0.45157	1.003621	0.881118	0.185895
AE003853	565250	59.428	26.208	39.188	27.204	17.316	1.366161	0.312305	1.505641	-0.06338	-0.28382
AE003853	565750	46.018	25.322	37.802	38.65	13.266	0.067113	0.18553	1.331672	1.736731	-1.07904
AE003853	566250	35.762	21.434	20.082	25.344	19.81	-0.92672	-0.36733	-0.87799	-0.35849	0.200541
AE003853	566750	41.048	27.71	26.152	23.526	14.492	-0.41652	0.522432	-0.12272	-0.64579	-0.84301
AE003853	567250	43.352	23.53	30.67	27.972	19.602	-0.1949	-0.07188	0.439119	0.052699	0.155729
AE003853	567750	33.104	18.102	27.908	20.472	15.802	-1.18796	-0.84332	0.093661	-1.12881	-0.59052
AE003853	568250	35.146	21.02	28.522	22.222	14.386	-0.99169	-0.43018	0.16895	-0.8546	-0.86988
AE003853	568750	35.13	23.294	22.29	32.152	25.074	-0.99458	-0.10843	-0.60897	0.706936	1.221284
AE003853	569250	34.744	25.632	19.176	29.318	29.62	-1.03328	0.222391	-0.9983	0.259741	2.109561
AE003853	569750	33.772	19.03	25.266	21.26	27.62	-1.12868	-0.71569	-0.24054	-1.00958	1.715832
AE003853	570250	51.298	29.026	23.822	27.354	22.532	0.565995	0.70208	-0.42174	-0.05173	0.71733

AE003853	570750	53.75	32.094	25.334	30.326	18.69	0.801938	1.136518	-0.23453	0.414787	-0.03715
AE003853	571250	43.86	24.57	28.304	30.006	21.002	-0.15647	0.067576	0.134385	0.363231	0.41361
AE003853	571750	51.752	28.82	30.214	27.172	23.77	0.605906	0.669782	0.371194	-0.08396	0.953673
AE003853	572250	44.062	33.406	30.842	24.538	23.186	-0.13961	1.319678	0.448229	-0.49968	0.837262
AE003853	572750	47.916	27.044	29.04	21.67	20.402	0.232008	0.415665	0.222415	-0.95223	0.289989
AE003853	573250	41.922	25.916	30.89	30.078	17.548	-0.34938	0.254542	0.451746	0.369778	-0.27099
AE003853	573750	49.634	19.168	25.46	16.762	23.118	0.395579	-0.70426	-0.22622	-1.72702	0.81783
AE003853	574250	48.032	16.866	23.516	20.766	22.39	0.239209	-1.03201	-0.46973	-1.09808	0.673217
AE003853	574750	48.538	17.622	21.22	17.15	14.568	0.286834	-0.92573	-0.75712	-1.66835	-0.86073
AE003853	575250	49.526	19.942	31.49	21.032	23.448	0.381103	-0.59746	0.521593	-1.05861	0.876346
AE003853	575750	53.658	21.25	28.36	28.694	21.482	0.779622	-0.41283	0.130271	0.145992	0.489275
AE003853	576250	53.028	31.218	26.854	32.956	17.504	0.717315	1.000964	-0.05865	0.815526	-0.29184
AE003853	576750	37.128	24.246	29.67	33.788	15.358	-0.82269	0.010371	0.29107	0.945266	-0.71416
AE003853	577250	24.178	18.068	29.036	20.258	13.216	-2.07723	-0.86753	0.210822	-1.18521	-1.1357
AE003853	577750	41.088	23.04	27.298	19.416	24.742	-0.44216	-0.16284	-0.00702	-1.31891	1.119581
AE003853	578250	44.29	22.516	30.366	36.782	21.672	-0.13364	-0.23824	0.374114	1.412857	0.516296
AE003853	578750	44.904	24.504	28.184	41.914	22.674	-0.07556	0.042911	0.10094	2.219306	0.710495
AE003853	579250	37.522	16.036	22.704	33.91	23.362	-0.79127	-1.16002	-0.58326	0.958485	0.8432
AE003853	579750	39.594	22.136	31.598	33.34	18.346	-0.5921	-0.29523	0.523959	0.867586	-0.1412
AE003853	580250	50.52	19.208	28.86	29.544	19.392	0.463881	-0.71184	0.181492	0.268997	0.061616
AE003853	580750	45.154	26.942	29.468	24.31	17.712	-0.05674	0.38487	0.256034	-0.5559	-0.26944
AE003853	581250	62.362	25.604	30.564	24.044	10.864	1.607167	0.19394	0.391395	-0.59895	-1.61263
AE003853	581750	59.556	27.082	33.832	24.89	15.454	1.334285	0.402701	0.79745	-0.46701	-0.71574
AE003853	582250	45.308	25.122	29.728	21.726	18.338	-0.04586	0.123488	0.284739	-0.96614	-0.15296
AE003853	582750	32.084	23.328	20.468	17.796	16.056	-1.3269	-0.13216	-0.87056	-1.58582	-0.60192
AE003853	583250	30.448	25.572	18.314	25.388	18.726	-1.48656	0.185319	-1.14024	-0.39223	-0.08105
AE003853	583750	32.828	17.822	16.994	23.962	19.754	-1.25759	-0.9157	-1.30599	-0.61784	0.118246
AE003853	584250	41.068	23.66	22.486	22.898	14.78	-0.46153	-0.0881	-0.62276	-0.78648	-0.85793
AE003853	584750	37.502	26.506	25.314	27.804	19.332	-0.80796	0.314827	-0.27154	-0.0156	0.031524
AE003853	585250	32.932	24.39	31.03	26.214	23.342	-1.25155	0.013472	0.439611	-0.26702	0.814827
AE003853	585750	51.408	21.236	37.884	32.676	27.162	0.53506	-0.43521	1.292586	0.748738	1.560921
AE003853	586250	53.528	19.202	37.372	35.454	29.442	0.738875	-0.72493	1.227543	1.184728	2.005411
AE003853	586750	47.65	17.97	24.604	20.828	24.024	0.16871	-0.90081	-0.36495	-1.11823	0.942281
AE003853	587250	40.706	16.83	23.472	28.576	13.312	-0.50461	-1.06364	-0.50727	0.099915	-1.15766
AE003853	587750	38.212	33.45	33.128	27.36	15.94	-0.7473	1.294307	0.694919	-0.09265	-0.64501
AE003853	588250	46.026	22.5	39.762	33.446	17.838	0.00753	-0.26091	1.520476	0.863937	-0.27534
AE003853	588750	53.402	14.958	33.606	38.62	15.354	0.719975	-1.3324	0.752027	1.676996	-0.76385

AE003853	589250	43.498	15.73	28.862	34.696	19.792	-0.23979	-1.22385	0.159554	1.058263	0.103271
AE003853	589750	46.25	24.194	31.542	32.058	17.986	0.025183	-0.02353	0.492327	0.641913	-0.25246
AE003853	590250	53.712	17.62	26.086	25.436	16.11	0.74595	-0.95763	-0.18888	-0.40142	-0.62191
AE003853	590750	55.204	23.028	28.756	26.13	19.3	0.888992	-0.19106	0.142645	-0.29339	0.000801
AE003853	591250	40.836	16.502	21.53	32.5	22.182	-0.50276	-1.11835	-0.75916	0.707885	0.563191
AE003853	591750	37.464	24.73	19.172	22.696	15.156	-0.83042	0.048472	-1.05427	-0.83621	-0.81486
AE003853	592250	55.086	15.56	19.626	22.51	17.1	0.873549	-1.2541	-0.99892	-0.86668	-0.43617
AE003853	592750	50.128	19.5	22.952	19.478	16.23	0.392415	-0.69589	-0.58563	-1.34503	-0.6086
AE003853	593250	60.592	14.388	33	19.97	11.012	1.403691	-1.42248	0.665408	-1.2688	-1.63256
AE003853	593750	61.062	25.686	29.61	29.772	21.47	1.447832	0.180082	0.241682	0.272587	0.413559
AE003853	594250	61.096	28.566	28.538	29.198	19.13	1.449781	0.587837	0.106847	0.181059	-0.04676
AE003853	594750	39.526	30.75	29.056	22.442	22.23	-0.63892	0.896804	0.170173	-0.88336	0.558326
AE003853	595250	47.594	30.154	35.55	20.222	21.506	0.140489	0.81119	0.978282	-1.23393	0.414496
AE003853	595750	44.786	35.51	36.656	18.7	19.162	-0.13259	1.570377	1.114889	-1.47465	-0.0466
AE003853	596250	58.052	32.4	34.696	32.478	28.402	1.149843	1.127938	0.869383	0.692463	1.760973
AE003853	596750	54.224	23.596	25.98	33.018	22.642	0.778061	-0.12268	-0.21812	0.776249	0.630863
AE003853	597250	50.53	24.392	24.816	27.636	17.056	0.419246	-0.01072	-0.36442	-0.07194	-0.46517
AE003853	597750	56.722	16.994	29.3	21.888	15.58	1.017114	-1.06178	0.193186	-0.97772	-0.75628
AE003853	598250	60.464	21.488	36.6	33.776	15.546	1.377891	-0.42494	1.101746	0.891951	-0.76497
AE003853	598750	66.112	40.146	35.17	33.82	27.062	1.923116	2.22227	0.922294	0.89768	1.48835
AE003853	599250	75.676	33.092	39.648	25.814	29.624	2.847297	1.220038	1.479151	-0.36346	1.988069
AE003853	599750	65.666	25.602	41.194	30.972	24.136	1.877273	0.155922	1.670595	0.447085	0.911229
AE003853	600250	45.236	30.5	38.702	19.948	26.834	-0.10111	0.850101	1.358786	-1.28901	1.437583
AE003853	600750	52.938	30.862	33.506	25.816	24.13	0.642882	0.900462	0.709981	-0.36673	0.905978
AE003853	601250	52.098	24.05	33.014	28.392	24.418	0.560253	-0.06742	0.64743	0.037471	0.960344
AE003853	601750	36.13	25.97	39.924	26.16	20.228	-0.98634	0.204074	1.507385	-0.31498	0.137712
AE003853	602250	38.576	18.638	21.752	29.366	18.186	-0.75097	-0.83762	-0.75861	0.188362	-0.26424
AE003853	602750	44.228	19.366	28.446	18.832	16.486	-0.20536	-0.73531	0.074427	-1.47062	-0.59922
AE003853	603250	53.604	23.948	27.668	38.88	15.74	0.700626	-0.08598	-0.02377	1.683231	-0.74736
AE003853	603750	43.152	13.722	24.876	29.968	20.984	-0.31217	-1.53843	-0.37296	0.279514	0.27762
AE003853	604250	52.304	17.91	24.89	25.48	24.708	0.57214	-0.94502	-0.37245	-0.42798	1.004912
AE003853	604750	50.814	21.648	31.504	21.488	23.354	0.426609	-0.41549	0.450612	-1.05741	0.737699
AE003853	605250	45.288	15.014	26.672	18.954	14.728	-0.10949	-1.35811	-0.15283	-1.4574	-0.95371
AE003853	605750	38.78	16.728	29.318	15.65	18.906	-0.74062	-1.11585	0.175707	-1.97856	-0.1375
AE003853	606250	51.502	24.552	45.492	23.972	17.436	0.489164	-0.00637	2.190226	-0.67008	-0.42743
AE003853	606750	54.246	31.644	46.438	29.196	19.492	0.753364	0.999217	2.306893	0.150845	-0.02681
AE003853	607250	51.118	39.292	46.356	29.136	20.108	0.449322	2.08372	2.295441	0.140207	0.091793

AE003853	607750	41.022	24.264	35.546	27.002	17.436	-0.52902	-0.05031	0.946967	-0.19683	-0.43354
AE003853	608250	50.352	28.25	37.064	33.276	29.06	0.372512	0.514429	1.134921	0.789345	1.84093
AE003853	608750	52.024	21.55	38.956	20.99	20.09	0.532973	-0.43756	1.369487	-1.14535	0.082154
AE003853	609250	61.31	20.678	32.446	23.964	16.792	1.430252	-0.56235	0.556919	-0.67852	-0.56578
AE003853	609750	56.04	19.042	15.338	22.992	12.788	0.918925	-0.79557	-1.57647	-0.83268	-1.35199
AE003853	610250	59.376	16.83	27.048	28.756	18.752	1.240413	-1.11055	-0.11829	0.073228	-0.186
AE003853	610750	46.578	22.404	35.518	25.58	22.096	0.00059	-0.32042	0.936082	-0.42779	0.466869
AE003853	611250	47.612	24.644	33.984	31.816	17.554	0.09931	-0.00351	0.743668	0.552402	-0.4247
AE003853	611750	35.062	18.794	37.31	26.218	14.842	-1.11651	-0.83485	1.156952	-0.32978	-0.95787
AE003853	612250	31.846	25.564	35.554	28.344	21.02	-1.42907	0.125031	0.93687	0.003606	0.250026
AE003853	612750	51.06	19.548	23.172	22.436	14.564	0.428955	-0.72987	-0.60752	-0.92736	-1.01639
AE003853	613250	48.134	17.308	29.164	20.104	24.772	0.14446	-1.04883	0.138025	-1.29555	0.980763
AE003853	613750	51.306	22.9	39.022	33.206	26.45	0.450078	-0.25614	1.365386	0.765173	1.307355
AE003853	614250	54.22	21.72	29.758	36.528	20.028	0.730729	-0.42465	0.209589	1.286775	0.047595
AE003853	614750	36.506	22.754	26.766	24.35	17.95	-0.98482	-0.27891	-0.16453	-0.63093	-0.36141
AE003853	615250	36.366	23.656	36.478	31.02	21.204	-0.99971	-0.1519	1.044632	0.417565	0.273834
AE003853	615750	36.532	23.44	34.956	37.83	25.866	-0.98499	-0.18358	0.853714	1.488089	1.184829
AE003853	616250	35.166	23.68	22.06	31.566	23.378	-1.11852	-0.15053	-0.75474	0.501099	0.695527
AE003853	616750	42.896	21.854	26.714	24.394	24.72	-0.37182	-0.41073	-0.17594	-0.62879	0.956314
AE003853	617250	37.492	27.062	28.412	24.93	16.644	-0.89611	0.327452	0.034443	-0.54563	-0.62738
AE003853	617750	35.568	24.978	16.282	35.344	23.134	-1.08364	0.030639	-1.47854	1.092072	0.641626
AE003853	618250	47.61	26.11	17.408	27.78	19.732	0.080339	0.19029	-1.33944	-0.0995	-0.02668
AE003853	618750	46.724	23.726	28.548	30.404	14.67	-0.00674	-0.1491	0.047694	0.31225	-1.02009
AE003853	619250	48.742	40.532	28.3	26.32	22.386	0.187202	2.235243	0.015554	-0.33166	0.48902
AE003853	619750	37.03	27.674	21.452	25.186	22.132	-0.94753	0.409217	-0.83914	-0.51132	0.437237
AE003853	620250	35.172	25.128	28.014	36.806	17.942	-1.12867	0.04683	-0.02256	1.316174	-0.38539
AE003853	620750	30.988	34.522	33.842	24.772	23.748	-1.5349	1.379151	0.702551	-0.57887	0.749648
AE003853	621250	35.586	27.04	32.038	26.706	24.418	-1.09129	0.316171	0.476487	-0.2757	0.878827
AE003853	621750	41.268	26.832	39.052	25.328	21.934	-0.54278	0.285628	1.349403	-0.49376	0.390308
AE003853	622250	36.13	26.062	34.916	19.608	19.124	-1.04133	0.175318	0.832704	-1.39514	-0.16206
AE003853	622750	44.996	19.686	28.912	26.46	18.316	-0.18469	-0.73068	0.083198	-0.318	-0.32234
AE003853	623250	49.826	28.47	38.394	37.972	18.798	0.281372	0.515059	1.263699	1.492496	-0.22998
AE003853	623750	59.198	27.516	25.69	27.082	14.914	1.186973	0.378633	-0.32082	-0.22251	-0.99268
AE003853	624250	45.298	15.766	24.362	28.672	15.136	-0.15949	-1.29013	-0.48756	0.026522	-0.95124
AE003853	624750	47.026	28.508	37.846	37.828	21.832	0.006388	0.517393	1.191704	1.466247	0.358104
AE003853	625250	50.962	34.596	33.622	19.454	25.116	0.385939	1.380476	0.664038	-1.42655	0.999224
AE003853	625750	41.36	27.126	35.528	26.286	15.526	-0.5446	0.319198	0.900349	-0.35256	-0.88098

AE003853	626250	50.964	18.46	33.498	34.892	20.832	0.38345	-0.91183	0.646119	1.000607	0.156145
AE003853	626750	52.096	24.518	35.098	34.994	20.654	0.491654	-0.05301	0.844293	1.015464	0.119246
AE003853	627250	53.436	35.606	25.472	38.12	16.99	0.619987	1.519751	-0.35662	1.50622	-0.60037
AE003853	627750	52.264	34.626	20.784	37.038	21.078	0.505229	1.379635	-0.94211	1.334745	0.198209
AE003853	628250	56.48	26.714	25.98	26.746	19.62	0.911877	0.255622	-0.29577	-0.28615	-0.08937
AE003853	628750	47.29	21.264	29.942	35.064	25.952	0.021205	-0.51895	0.196775	1.021696	1.148686
AE003853	629250	46.712	22.514	30.122	25.376	25.688	-0.03607	-0.34255	0.217975	-0.50414	1.094945
AE003853	629750	48.146	35.504	31.37	26.456	19.714	0.101359	1.500174	0.37228	-0.33537	-0.07708
AE003853	630250	50.23	20.16	31.15	39.172	19.948	0.301689	-0.6787	0.343629	1.664602	-0.03329
AE003853	630750	49.374	17.028	34.3	46.332	15.892	0.217512	-1.12426	0.734978	2.790207	-0.82968
AE003853	631250	48.276	28.546	27.49	28.396	25.224	0.109915	0.509528	-0.11498	-0.03366	0.99592
AE003853	631750	67.464	32.986	24.18	36.496	30.394	1.965426	1.138702	-0.52873	1.239881	2.006405
AE003853	632250	65.338	21.596	29.712	39.442	30.66	1.758348	-0.47896	0.159482	1.70231	2.056463
AE003853	632750	55.698	17.64	44.114	42.902	23.914	0.82413	-1.04148	1.953158	2.245629	0.733249
AE003853	633250	50.114	28.064	31.978	30.276	21.854	0.282416	0.437036	0.439426	0.257424	0.327768
AE003853	633750	49.022	32.294	28.762	29.028	16.86	0.175401	1.036403	0.037386	0.059824	-0.65232
AE003853	634250	56.884	22.798	25.894	25.462	12.218	0.934877	-0.31244	-0.32128	-0.50257	-1.56348
AE003853	634750	44.344	25.12	25.008	18.954	10.874	-0.27998	0.016118	-0.43294	-1.52796	-1.82873
AE003853	635250	44.344	25.266	31.496	26.928	20.046	-0.28132	0.035821	0.374424	-0.27425	-0.03447
AE003853	635750	57.294	37.966	35.332	34.172	20.552	0.970529	1.837381	0.851269	0.864575	0.062587
AE003853	636250	61.61	34.754	33.23	34.698	19.338	1.386854	1.380465	0.588066	0.946158	-0.17721
AE003853	636750	77.742	38.076	27.8	30.352	20.88	2.946631	1.850954	-0.0899	0.261013	0.122749
AE003853	637250	50.136	32.49	28.466	25.146	24.74	0.273815	1.057083	-0.00813	-0.55947	0.876676
AE003853	637750	48.164	19.698	28.048	33.794	25.338	0.08164	-0.75957	-0.06146	0.800303	0.991754
AE003853	638250	56.756	26.318	25.106	33.462	22.442	0.91176	0.179018	-0.42935	0.746859	0.422546
AE003853	638750	45.532	30.16	28.44	22.108	16.572	-0.17574	0.723314	-0.01507	-1.04117	-0.72911
AE003853	639250	60.512	29.346	26.558	26.69	18.098	1.272551	0.606759	-0.25086	-0.32127	-0.43228
AE003853	639750	54.168	35.416	28.564	23.596	24.168	0.657291	1.467287	-0.00208	-0.80938	0.754462
AE003853	640250	43.66	32.722	40.826	29.58	24.102	-0.36093	1.083893	1.524887	0.131148	0.739499
AE003853	640750	40.012	19.41	29.556	34.304	19.562	-0.71529	-0.80657	0.119085	0.873389	-0.15168
AE003853	641250	47.676	34.116	28.234	24.412	14.628	0.025027	1.279711	-0.04691	-0.68456	-1.12002
AE003853	641750	47.706	20.912	35.67	17.14	16.074	0.026589	-0.59542	0.878602	-1.83018	-0.83887
AE003853	642250	43.712	17.01	48.726	32.282	16.014	-0.36126	-1.15028	2.504527	0.55159	-0.85265
AE003853	642750	36.118	18.446	31.444	30.754	23.908	-1.09748	-0.94748	0.349454	0.309926	0.691315
AE003853	643250	44.512	19.886	29.66	23.668	28.542	-0.28652	-0.74411	0.125883	-0.80643	1.596827
AE003853	643750	47.14	12.146	20.522	17.714	27.766	-0.03355	-1.84371	-1.01421	-1.74463	1.442812
AE003853	644250	46.626	22.416	19.164	28.666	23.732	-0.08463	-0.38705	-1.18469	-0.02226	0.650732

AE003853	644750	54.006	25.964	26.486	39.568	15.582	0.628202	0.115515	-0.27339	1.69224	-0.94745
AE003853	645250	47.916	25.376	23.08	29.468	12.912	0.037522	0.031037	-0.69911	0.101562	-1.4724
AE003853	645750	51.61	23.512	21.382	32.332	17.766	0.393654	-0.23455	-0.91196	0.551087	-0.5238
AE003853	646250	53.194	27.292	31.876	37.974	16.082	0.545599	0.300945	0.394665	1.437797	-0.85564
AE003853	646750	57.756	21.026	25.146	26.366	17.1	0.98573	-0.58944	-0.44532	-0.3902	-0.65831
AE003853	647250	46.256	23.156	23.69	30.562	25.958	-0.12848	-0.28814	-0.62801	0.268946	1.074458
AE003853	647750	35.516	22.158	25.916	30.596	27.528	-1.16915	-0.43081	-0.35182	0.273101	1.379898
AE003853	648250	48.892	20.556	36.91	25.36	25.886	0.123923	-0.65921	1.017118	-0.55211	1.056281
AE003853	648750	60.602	31.068	29.83	29.156	22.104	1.255776	0.831794	0.133511	0.04409	0.313554
AE003853	649250	63.648	28.396	30.626	31.666	14.054	1.549201	0.451523	0.231483	0.437904	-1.26504
AE003853	649750	57.22	27.582	26.128	44.976	14.004	0.925812	0.334967	-0.33033	2.531361	-1.27687
AE003853	650250	57.232	20.324	26.006	33.242	19.752	0.925632	-0.69622	-0.34677	0.683534	-0.15319
AE003853	650750	48.628	19.956	29.67	33.642	28.384	0.091669	-0.74947	0.10864	0.745288	1.535314
AE003853	651250	44.032	26.334	30.93	35.792	21.836	-0.35443	0.154772	0.26444	1.082447	0.250878
AE003853	651750	53.696	30.504	31.808	27.948	24.736	0.579424	0.745623	0.372631	-0.15319	0.816793
AE003853	652250	47.296	21.314	28.728	25.054	25.494	-0.04125	-0.55978	-0.01246	-0.60983	0.963206
AE003853	652750	54.892	20.476	20.88	28.47	24.344	0.692481	-0.67974	-0.99178	-0.07344	0.735945
AE003853	653250	58.594	25.608	21.626	29.508	27.558	1.049388	0.047648	-0.90004	0.088722	1.363356
AE003853	653750	41.862	24.268	24.298	43.876	19.664	-0.57113	-0.14357	-0.56826	2.348682	-0.18469
AE003853	654250	43.14	14.516	29.034	39.706	20.232	-0.4488	-1.52874	0.020747	1.691235	-0.07549
AE003853	654750	49.826	24.58	40.57	36.806	21.36	0.196871	-0.10132	1.457236	1.233653	0.14339
AE003853	655250	31.972	40.45	35.734	31.75	24.458	-1.53223	2.150174	0.853297	0.436772	0.748082
AE003853	655750	43.388	33.764	37.578	19.778	20.154	-0.42883	1.200174	1.08188	-1.44851	-0.09688
AE003853	656250	52.73	24.462	33.722	22.604	19.268	0.473872	-0.12113	0.600078	-1.00497	-0.27243
AE003853	656750	40.088	23.52	21.474	26.608	17.702	-0.75086	-0.25585	-0.92761	-0.37604	-0.58117
AE003853	657250	37.3	20.226	24.192	29.11	24.426	-1.022	-0.72441	-0.5901	0.016519	0.733663
AE003853	657750	48.134	23.066	23.788	34.764	20.538	0.025086	-0.32233	-0.64169	0.905118	-0.02982
AE003853	658250	52.488	21.754	17.198	36.84	24.746	0.445088	-0.50957	-1.46422	1.230632	0.792258
AE003853	658750	59.626	28.312	21.238	28.36	20.506	1.134502	0.420223	-0.96196	-0.1051	-0.04017
AE003853	659250	49.746	23.082	27.428	31.118	19.308	0.177058	-0.32312	-0.19173	0.327743	-0.27683
AE003853	659750	53.586	27.828	28.842	28.58	20.004	0.547319	0.349486	-0.01674	-0.07287	-0.14256
AE003853	660250	50.354	26.74	33.932	36.134	21.466	0.233212	0.194041	0.616389	1.114742	0.141732
AE003853	660750	45.142	34.924	37.454	26.344	27.686	-0.2725	1.35462	1.0541	-0.42715	1.357855
AE003853	661250	40.038	31.432	29.666	39.462	28.734	-0.76777	0.857962	0.082256	1.636092	1.561064
AE003853	661750	44.888	20.428	27.202	41.496	20.952	-0.29976	-0.70492	-0.22606	1.954995	0.034954
AE003853	662250	32.562	29.396	30.04	23.804	22.438	-1.49391	0.566942	0.126402	-0.83047	0.323943
AE003853	662750	30.518	22.978	34.798	33.35	19.936	-1.69305	-0.34502	0.718154	0.670631	-0.1681

AE003853	663250	36.828	29.75	35.786	21.068	19.292	-1.08377	0.615147	0.840055	-1.26344	-0.29626
AE003853	663750	34.1	40.166	34.094	36.67	15.296	-1.3491	2.092527	0.62795	1.190723	-1.0809
AE003853	664250	48.164	29.418	18.372	33.334	26.828	0.010552	0.565985	-1.3327	0.664526	1.175554
AE003853	664750	47.76	24.52	18.266	39.836	21.332	-0.02988	-0.13023	-1.34714	1.686578	0.097147
AE003853	665250	32.69	24.76	20.264	36.574	21.948	-1.48957	-0.09719	-1.09937	1.172027	0.215751
AE003853	665750	45.824	24.344	24.862	25.088	24.94	-0.21992	-0.15726	-0.52756	-0.63677	0.799683
AE003853	666250	51.422	25.548	28.924	24.256	17.136	0.320469	0.012615	-0.02255	-0.7689	-0.73074
AE003853	666750	39.042	27.142	28.986	26.346	18.07	-0.8789	0.237841	-0.01605	-0.44119	-0.54985
AE003853	667250	40.352	22.556	18.926	28.16	23.288	-0.75347	-0.4141	-1.27105	-0.15691	0.470032
AE003853	667750	40.254	15.444	21.13	31.814	18.802	-0.7643	-1.42456	-0.9976	0.416945	-0.41057
AE003853	668250	37.466	17.962	28.304	32.598	18.09	-1.03544	-1.06819	-0.10475	0.53913	-0.55205
AE003853	668750	39.91	30.728	38.614	20.124	18.958	-0.80027	0.742742	1.178948	-1.42515	-0.38409
AE003853	669250	37.84	25.1	24.678	19.186	22.664	-1.00193	-0.05709	-0.55912	-1.57397	0.339673
AE003853	669750	43.148	28.564	28.87	33.102	18.7	-0.48961	0.433554	-0.0379	0.614859	-0.4387
AE003853	670250	50.946	28.408	26.564	28.432	24.37	0.263675	0.410392	-0.32653	-0.12128	0.66971
AE003853	670750	47.518	17.566	23	23.93	24.406	-0.0694	-1.12949	-0.77194	-0.83097	0.674722
AE003853	671250	45.602	17.262	28.792	32.238	24.12	-0.25615	-1.17366	-0.05132	0.4753	0.616673
AE003853	671750	50.304	26.344	22.4	28.344	17.514	0.197524	0.114377	-0.84918	-0.13871	-0.67912
AE003853	672250	37.112	30.918	15.722	23.63	15.07	-1.08043	0.76257	-1.68269	-0.88177	-1.15981
AE003853	672750	40.268	18.964	24.976	29.08	20.506	-0.77636	-0.93515	-0.53061	-0.02528	-0.09723
AE003853	673250	47.698	19.564	38.548	33.268	14.708	-0.05869	-0.851	1.159628	0.632612	-1.23478
AE003853	673750	40.708	17.026	27.112	31.428	17.912	-0.73646	-1.21226	-0.26686	0.341847	-0.60933
AE003853	674250	42.722	23.162	25.8	19.98	20.31	-0.5429	-0.34236	-0.43161	-1.46097	-0.14173
AE003853	674750	45.364	27.192	24.444	25	24.036	-0.28857	0.22862	-0.60184	-0.67215	0.585956
AE003853	675250	53.304	32.856	27.25	24.158	18.048	0.47845	1.031522	-0.25336	-0.80585	-0.58881
AE003853	675750	40.256	30.97	25.356	23.27	25.16	-0.78557	0.762812	-0.49064	-0.9468	0.802011
AE003853	676250	44.816	41.178	30.958	20.254	27.25	-0.34563	2.210669	0.206297	-1.42263	1.209291
AE003853	676750	57.396	30.942	28.9	22.212	28.274	0.870415	0.756798	-0.05142	-1.11569	1.407799
AE003853	677250	55.708	29.758	28.178	24.718	15.284	0.705723	0.587727	-0.14264	-0.72251	-1.13828
AE003853	677750	48.122	33.722	30.854	27.698	18.95	-0.02973	1.149339	0.189638	-0.25473	-0.42234
AE003853	678250	48.47	24.166	31.116	29.738	18.844	0.002609	-0.20802	0.221058	0.06512	-0.44514
AE003853	678750	39.976	23.91	26.272	31.942	22.712	-0.82071	-0.24537	-0.38388	0.410778	0.310353
AE003853	679250	39.924	26.702	27.498	32.06	22.62	-0.82708	0.149892	-0.23232	0.428152	0.290297
AE003853	679750	33.45	26.624	29.382	28.01	17.05	-1.45492	0.137802	0.001253	-0.21041	-0.8026
AE003853	680250	41.134	23.386	30.816	26.062	17.788	-0.71267	-0.32281	0.178739	-0.51817	-0.66011
AE003853	680750	49.902	34.582	30.858	27.34	16.892	0.134479	1.265284	0.182741	-0.31824	-0.83762
AE003853	681250	53.802	29.522	21.434	32.074	20.556	0.510547	0.546071	-0.993	0.425571	-0.12208

AE003853	681750	61.532	22.646	19.886	32.93	20.166	1.257249	-0.4309	-1.18716	0.559088	-0.2005
AE003853	682250	50.822	25.91	31.122	33.544	22.876	0.219485	0.03136	0.211945	0.65452	0.328206
AE003853	682750	46.992	19.138	27.91	33.302	20.368	-0.15249	-0.93085	-0.1896	0.615239	-0.16501
AE003853	683250	59.7	21.562	28.714	30.782	18.81	1.07594	-0.58781	-0.09063	0.21746	-0.47218
AE003853	683750	58.93	16.334	35.588	25.342	20.276	1.000085	-1.33087	0.764841	-0.63985	-0.18711
AE003853	684250	61.228	19.2	32.158	27	18.082	1.221124	-0.92511	0.33613	-0.38012	-0.61883
AE003853	684750	62.514	30.016	36.472	29.176	15.156	1.344231	0.609048	0.872548	-0.03887	-1.19391
AE003853	685250	57.88	26.67	28.586	31.52	9.094	0.894451	0.133112	-0.11151	0.328818	-2.38317
AE003853	685750	55.392	30.688	25.838	34.446	12.808	0.652342	0.702389	-0.45522	0.7881	-1.65784
AE003853	686250	46.116	34.092	33.764	26.346	12.298	-0.24665	1.184517	0.531354	-0.48783	-1.75975
AE003853	686750	39.778	22.118	30.93	31.11	17.086	-0.86133	-0.51604	0.176922	0.260707	-0.82408
AE003853	687250	44.06	20.728	33.354	37.76	24.068	-0.4483	-0.71435	0.477791	1.306051	0.541275
AE003853	687750	42.22	23.816	24.016	34.41	24.036	-0.6277	-0.27707	-0.68723	0.777651	0.53297
AE003853	688250	54.306	30.904	27.566	31.744	20.494	0.540542	0.727948	-0.24603	0.356894	-0.16275
AE003853	688750	45.012	35.984	25.418	35.594	13.222	-0.36019	1.44796	-0.51496	0.96159	-1.58898
AE003853	689250	43.846	29.1	31.578	22.948	18.702	-0.47437	0.469856	0.251519	-1.02976	-0.51779
AE003853	689750	39.502	17.912	32.476	19.272	26.356	-0.89609	-1.11914	0.362203	-1.60947	0.979181
AE003853	690250	38.966	17.72	34.874	27.08	18.324	-0.9493	-1.14741	0.659831	-0.38188	-0.59589
AE003853	690750	51.368	19.12	39.382	26.216	18.25	0.24952	-0.94972	1.220427	-0.51905	-0.61242
AE003853	691250	43.328	24.484	31.062	36.33	26.366	-0.52986	-0.1894	0.18228	1.071438	0.975025
AE003853	691750	46.846	23.972	32.876	24.542	29.556	-0.19076	-0.26309	0.407124	-0.78489	1.597736
AE003853	692250	42.976	26.528	32.038	22.472	18.964	-0.56661	0.098679	0.301452	-1.11185	-0.4787
AE003853	692750	34.978	26.34	38.752	22.59	21.656	-1.34193	0.070976	1.13698	-1.09447	0.046478
AE003853	693250	42.32	25.44	34.216	29.414	20.366	-0.63277	-0.05779	0.570429	-0.02175	-0.2082
AE003853	693750	50.996	30.168	20.966	27.918	23.808	0.205474	0.612265	-1.08214	-0.25838	0.463862
AE003853	694250	48.67	20.918	22.386	30.772	30.666	-0.02096	-0.70166	-0.9064	0.189575	1.804935
AE003853	694750	42.26	24.446	18.446	34.176	29.738	-0.6426	-0.20193	-1.39867	0.724082	1.621152
AE003853	695250	43.74	25.996	26.3	28.796	25.132	-0.50072	0.01705	-0.42107	-0.12379	0.717048
AE003853	695750	49.516	27.954	35.722	25.03	22.008	0.056887	0.29394	0.751958	-0.71766	0.103188
AE003853	696250	50.022	30.828	38.392	30.582	23.856	0.104512	0.700843	1.083485	0.15489	0.463073
AE003853	696750	37.6	36.282	30.768	26.468	18.35	-1.09893	1.473939	0.13208	-0.49374	-0.61729
AE003853	697250	50.212	29.008	31.634	19.13	23.262	0.120216	0.44048	0.238776	-1.64975	0.342665
AE003853	697750	57.096	27.16	29.426	20.488	19.786	0.78505	0.177164	-0.03764	-1.43724	-0.34013
AE003853	698250	47.146	25.032	44.002	20.512	15.714	-0.17917	-0.12589	1.777724	-1.43465	-1.13966
AE003853	698750	39.638	21.194	49.374	26.302	22.148	-0.90707	-0.67166	2.445999	-0.52465	0.118379
AE003853	699250	43.246	17.31	42	41.554	15.772	-0.55926	-1.22396	1.525751	1.874427	-1.13237
AE003853	699750	52.754	24.304	43.224	37.33	21.28	0.359503	-0.23228	1.677064	1.208481	-0.05569

AE003853	700250	51.67	29.362	39.184	29.364	23.946	0.253261	0.484606	1.17233	-0.04636	0.464396
AE003853	700750	56.046	23.584	25.064	28.784	31.214	0.675392	-0.33652	-0.58867	-0.13883	1.885766
AE003853	701250	54.546	22.752	26.068	31.826	27.8	0.528893	-0.45563	-0.46477	0.338704	1.21511
AE003853	701750	57.326	31.72	22.882	30.64	20.544	0.796577	0.816231	-0.86307	0.150862	-0.20799
AE003853	702250	44.374	28.038	30.75	25.942	17.146	-0.45815	0.292604	0.116277	-0.58968	-0.87551
AE003853	702750	39.86	22.75	31.49	30.206	20.064	-0.89632	-0.45897	0.20727	0.08017	-0.30607
AE003853	703250	51.954	35.58	34.06	25.746	26.61	0.272696	1.361042	0.526335	-0.62292	0.973902
AE003853	703750	54.422	32.456	35.682	26.222	25.31	0.510187	0.916616	0.72725	-0.5492	0.717264
AE003853	704250	52.778	23.634	32.828	23.394	20.756	0.349754	-0.33656	0.370326	-0.99545	-0.17666
AE003853	704750	61.104	22.97	25.588	25.966	18.672	1.154132	-0.43182	-0.53322	-0.59188	-0.58684
AE003853	705250	55.588	37.894	28.454	25.81	20.432	0.618999	1.685401	-0.17727	-0.61763	-0.24419
AE003853	705750	54.426	22.552	25.84	32.416	19.064	0.505209	-0.49319	-0.50428	0.420792	-0.51414
AE003853	706250	52	33.802	21.964	23.548	27.592	0.2691	1.102561	-0.98858	-0.976	1.153995
AE003853	706750	50.54	33.578	38.52	19.842	28.86	0.126473	1.069748	1.073552	-1.56043	1.400289
AE003853	707250	44.772	27.986	45.03	31.22	25.846	-0.43305	0.275025	1.883655	0.228984	0.807972
AE003853	707750	43.616	21.558	32.568	23.314	24.724	-0.54626	-0.63836	0.329294	-1.01641	0.586195
AE003853	708250	45.472	15.224	28.612	24.936	18.42	-0.36799	-1.53839	-0.16497	-0.76235	-0.65046
AE003853	708750	45.926	12.778	27.716	29.918	18.59	-0.3254	-1.88659	-0.27787	0.020495	-0.6192
AE003853	709250	43.61	20.522	27.418	23.19	18.142	-0.55086	-0.78846	-0.31624	-1.03952	-0.70898
AE003853	709750	47.154	27.906	24.19	19.668	24.43	-0.20924	0.258571	-0.71978	-1.59499	0.520465
AE003853	710250	49.542	24.856	30.12	30.046	18.62	0.020506	-0.17535	0.018039	0.037051	-0.61944
AE003853	710750	50.262	28.124	35.612	29.456	18.512	0.08884	0.287473	0.701269	-0.057	-0.64263
AE003853	711250	46.58	26.406	40.41	27.004	20.664	-0.26881	0.042608	1.298007	-0.44407	-0.2232
AE003853	711750	48.872	20.592	41.086	33.114	18.664	-0.04836	-0.78362	1.381024	0.516288	-0.61693
AE003853	712250	39.46	23.52	28.886	32.162	26.8	-0.96051	-0.36906	-0.14068	0.365271	0.97443
AE003853	712750	37.354	25.592	21.526	35.228	31.05	-1.16565	-0.07599	-1.05919	0.846585	1.804737
AE003853	713250	44.832	26.39	34.61	39.08	31.46	-0.44334	0.036258	0.570228	1.451596	1.882995
AE003853	713750	47.888	27.042	44.89	40.854	29.33	-0.14894	0.12778	1.850183	1.729582	1.463806
AE003853	714250	64.654	30.962	40.872	16.712	29.08	1.472187	0.683147	1.34819	-2.07095	1.412807
AE003853	714750	57.466	31.716	35.946	17.516	16.818	0.775252	0.789146	0.733034	-1.94561	-0.99069
AE003853	715250	58.938	29.718	39.768	29.634	16.942	0.916358	0.50454	1.208134	-0.03975	-0.96845
AE003853	715750	62.972	27.508	46.166	36.11	20.004	1.305393	0.189842	2.004279	0.978214	-0.3708
AE003853	716250	53.94	28.614	36.76	29.526	20.682	0.430011	0.345803	0.830785	-0.05914	-0.24006
AE003853	716750	47.386	32.582	28.41	28.684	21.8	-0.20557	0.907983	-0.2111	-0.19284	-0.02314
AE003853	717250	42.924	29.796	32.13	38.968	13.868	-0.63871	0.511531	0.251286	1.424402	-1.57863
AE003853	717750	39.444	25.116	33.41	32.502	16.42	-0.97681	-0.15375	0.409579	0.405623	-1.08087
AE003853	718250	47.642	22.468	29.562	27.828	25.564	-0.18482	-0.53061	-0.07123	-0.33114	0.707909

AE003853	718750	47.764	21.022	20.532	25.712	27.948	-0.17436	-0.73687	-1.19786	-0.66534	1.172768
AE003853	719250	52.464	29.404	21.158	19.802	19.516	0.279129	0.451813	-1.12107	-1.59662	-0.48064
AE003853	719750	46.912	31.018	20.59	18.296	20.428	-0.25949	0.679877	-1.1931	-1.83482	-0.30407
AE003853	720250	42.248	32.822	31.198	25.594	24.068	-0.71217	0.934909	0.127736	-0.6875	0.406772
AE003853	720750	37.91	26.078	30.3	32.892	22.29	-1.13331	-0.02332	0.014587	0.459823	0.05652
AE003853	721250	46.418	28.018	28.76	34.114	30.196	-0.31132	0.251011	-0.17857	0.650939	1.60284
AE003853	721750	49.71	38.452	26.994	33.032	29.178	0.005914	1.730945	-0.3999	0.479464	1.401431
AE003853	722250	58.52	35.014	32.638	28.346	26.114	0.85713	1.241952	0.302272	-0.25919	0.799321
AE003853	722750	49.042	29.502	17.01	30.066	25.154	-0.06141	0.458584	-1.64666	0.010299	0.609271
AE003853	723250	39.628	16.586	13.79	29.136	22.138	-0.97376	-1.37567	-2.0492	-0.13725	0.016562
AE003853	723750	47.688	30.084	29.292	21.568	14.968	-0.19512	0.53915	-0.11844	-1.32946	-1.38969
AE003853	724250	49.684	20.854	27.802	27.952	18.418	-0.00331	-0.77193	-0.30537	-0.32598	-0.71606
AE003853	724750	49.042	27.882	29.54	21.638	30.37	-0.06678	0.224569	-0.08999	-1.32084	1.622651
AE003853	725250	41.474	28.564	36.688	34.794	30.846	-0.80049	0.320349	0.799624	0.748386	1.713836
AE003853	725750	51.276	25.284	47.586	40.232	21.806	0.146728	-0.14622	2.156599	1.602992	-0.05865
AE003853	726250	42.304	21.35	37.204	26.436	24.012	-0.72285	-0.70561	0.861467	-0.56934	0.37135
AE003853	726750	42.836	22.85	39.124	23.442	25.24	-0.67271	-0.49373	1.099523	-1.04172	0.60981
AE003853	727250	49.286	25.156	28.86	33.384	20.462	-0.04987	-0.16745	-0.1809	0.521704	-0.32798
AE003853	727750	50.512	20.376	32.09	37.256	22.206	0.067429	-0.84692	0.220416	1.129862	0.011538
AE003853	728250	49.468	21.99	30.096	24.396	24.43	-0.03494	-0.61885	-0.02933	-0.89517	0.445061
AE003853	728750	54.398	36.118	30.528	31.82	18.312	0.440801	1.38539	0.02328	0.271983	-0.75516
AE003853	729250	42.314	27.39	30.284	29.674	17.998	-0.72993	0.145558	-0.00836	-0.06694	-0.81869
AE003853	729750	52.498	23.438	31.584	40.68	20.722	0.254252	-0.41639	0.152423	1.663928	-0.28725
AE003853	730250	61.488	25.686	28.83	29.03	23.028	1.122887	-0.09834	-0.19204	-0.17068	0.162334
AE003853	730750	49.124	31.588	39.852	37.374	25.376	-0.07494	0.738343	1.180391	1.141256	0.620142
AE003853	731250	43.124	36.46	36.896	31.01	20.278	-0.65691	1.428833	0.810755	0.13853	-0.38032
AE003853	731750	39.518	20.986	26.868	19.632	21.862	-1.00721	-0.7685	-0.44026	-1.65327	-0.07214
AE003853	732250	47.338	25.826	33.696	26.416	23.432	-0.2518	-0.08255	0.409477	-0.58684	0.233304
AE003853	732750	40.258	25.536	29.25	30.296	16.48	-0.93828	-0.12473	-0.14586	0.022576	-1.13025
AE003853	733250	36.614	27.472	27.942	29.76	24.128	-1.29226	0.149038	-0.3101	-0.06297	0.365537
AE003853	733750	46.368	15.6	32.76	30.218	19.828	-0.34969	-1.53704	0.289126	0.007909	-0.47864
AE003853	734250	50.244	20.2	26.244	30.798	18.74	0.024058	-0.88516	-0.52419	0.09799	-0.69376
AE003853	734750	56.898	26.374	32.988	33.222	19.626	0.666634	-0.00987	0.315076	0.47827	-0.52227
AE003853	735250	54.706	34.086	29.294	32.55	23.924	0.45317	1.083719	-0.14654	0.371319	0.317433
AE003853	735750	51.322	42.222	47.41	48.65	38.878	0.124354	2.237486	2.110012	2.903851	3.244073
AE003853	736250	102.564	72.022	91.866	76.046	74.304	5.081778	6.466142	7.649292	7.214085	10.18007
AE003853	736750	109.866	57.602	63.06	58.946	52.836	5.787063	4.418413	4.057993	4.521786	5.973614

AE003853	737250	69.462	37.334	22.146	30.422	26.284	1.875765	1.540646	-1.04232	0.031642	0.771477
AE003853	737750	67.808	43.248	30.286	44	19.42	1.714364	2.379032	-0.02907	2.167276	-0.57485
AE003853	738250	57.29	37.452	34.708	43.428	16.486	0.69518	1.555355	0.52081	2.076062	-1.1515
AE003853	738750	64.354	42.192	37.158	32.85	15.216	1.377432	2.227109	0.824918	0.410159	-1.40226
AE003853	739250	53.97	33.31	35.346	27.068	24.148	0.371216	0.965418	0.597858	-0.50098	0.344999
AE003853	739750	41.982	25.12	35.846	38.436	22.75	-0.79022	-0.19805	0.65894	1.286861	0.069168
AE003853	740250	39.914	24.294	37.836	28.802	21.626	-0.99169	-0.31631	0.905719	-0.23048	-0.153
AE003853	740750	40.92	26.102	30.778	30.9	18.912	-0.89568	-0.06071	0.024854	0.098495	-0.68656
AE003853	741250	43.798	30.566	28.694	23.186	12.158	-0.61851	0.571868	-0.23611	-1.11669	-2.01134
AE003853	741750	40.42	27.984	26.368	21.434	17.45	-0.94674	0.204371	-0.52723	-1.3936	-0.97697
AE003853	742250	39.318	26.276	27.632	35.176	25.666	-1.05473	-0.03907	-0.37093	0.76784	0.630065
AE003853	742750	47.116	21.542	34.866	34.398	16.036	-0.30145	-0.71202	0.529407	0.644207	-1.25797
AE003853	743250	40.168	23.774	29.496	29.358	17.112	-0.97516	-0.39624	-0.14108	-0.15016	-1.04928
AE003853	743750	47.926	20.196	27.958	34.884	12.902	-0.22574	-0.9051	-0.334	0.718299	-1.87583
AE003853	744250	43.206	22.626	36.064	34.008	17.784	-0.68385	-0.56122	0.675015	0.579243	-0.92174
AE003853	744750	58.582	20.742	31.688	34.918	19.36	0.802772	-0.82964	0.128405	0.721258	-0.61513
AE003853	745250	49.882	30.75	34.224	27.914	20.656	-0.04048	0.589825	0.443232	-0.38219	-0.36335
AE003853	745750	44.056	33.212	27.514	29.17	16.014	-0.60561	0.93825	-0.39426	-0.18572	-1.2745
AE003853	746250	53.062	22.936	23.588	36.614	20.364	0.264569	-0.5213	-0.88479	0.984577	-0.42461
AE003853	746750	58.724	22.146	29.886	38.392	28.272	0.811148	-0.63445	-0.10111	1.263193	1.122098
AE003853	747250	55.034	39.558	34.984	26.538	20.116	0.45272	1.835913	0.53302	-0.60352	-0.47726
AE003853	747750	47.222	26.866	38.204	26.056	29.18	-0.3046	0.033449	0.933093	-0.68057	1.29585
AE003853	748250	49.392	29.376	31.944	20.884	19.392	-0.09595	0.388687	0.151682	-1.49571	-0.62313
AE003853	748750	49.236	24.876	31.56	30.98	23.848	-0.11239	-0.25104	0.102592	0.09195	0.247524
AE003853	749250	43.904	30.256	31.082	27.418	21.31	-0.62971	0.51155	0.041786	-0.46981	-0.25157
AE003853	749750	40.364	29.33	33.758	26.114	21.078	-0.97362	0.379098	0.374061	-0.67623	-0.29904
AE003853	750250	54.18	24.476	34.32	32.102	24.966	0.362029	-0.31088	0.44287	0.264936	0.460366
AE003853	750750	51.524	25.606	21.894	29.246	17.51	0.103663	-0.15151	-1.107	-0.18572	-1.0019
AE003853	751250	52.922	34.588	26.896	24.982	21.032	0.237608	1.122335	-0.48484	-0.85796	-0.31417
AE003853	751750	62.4	23.108	40.358	35.198	20.652	1.153467	-0.5081	1.191683	0.74858	-0.39063
AE003853	752250	58.784	24.184	40.808	28.926	18.28	0.8022	-0.3564	1.246533	-0.23967	-0.85721
AE003853	752750	53.774	21.648	30.456	23.174	20.668	0.316034	-0.71737	-0.04486	-1.14608	-0.39157
AE003853	753250	50.054	22.258	33.174	27.668	16.494	-0.0453	-0.63181	0.292649	-0.44004	-1.21107
AE003853	753750	51.748	25.916	34.074	30.528	25.838	0.117292	-0.11363	0.403583	0.008857	0.616878
AE003853	754250	43.796	26.976	28.558	30.654	26.226	-0.65358	0.035803	-0.2851	0.02749	0.690829
AE003853	754750	58.124	31.342	34.066	38.738	27.624	0.731625	0.654474	0.400121	1.298509	0.962583
AE003853	755250	59.74	29.61	22.546	32.674	33.234	0.886666	0.407622	-1.03684	0.342995	2.05924

AE003853	755750	55.268	23.364	26.332	34.696	24.256	0.452563	-0.47993	-0.56623	0.66001	0.298898
AE003853	756250	51.2	19.058	30.696	35.022	17.098	0.057555	-1.09212	-0.02358	0.710118	-1.105
AE003853	756750	50.568	28.896	28.43	32.01	19.448	-0.00495	0.30322	-0.30722	0.23491	-0.6468
AE003853	757250	51.722	29.318	29.332	28.442	22.064	0.105387	0.362097	-0.19604	-0.3278	-0.13651
AE003853	757750	55.704	29.152	36.06	24.732	29.294	0.48939	0.337516	0.641235	-0.91285	1.277418
AE003853	758250	58.642	21.102	27.814	25.668	28.586	0.772363	-0.80608	-0.38769	-0.76675	1.136721
AE003853	758750	55.998	17.948	38.306	37.124	22.782	0.515158	-1.25477	0.918687	1.034939	-0.00201
AE003853	759250	56.546	28.608	39.708	40.318	19.714	0.566848	0.257243	1.092185	1.536397	-0.6049
AE003853	759750	67.552	38.082	28.312	31.646	24.324	1.630574	1.60092	-0.32932	0.17045	0.295913
AE003853	760250	56.202	35.396	33.194	39.466	23.522	0.530876	1.218661	0.277885	1.399922	0.136806
AE003853	760750	48.878	30.204	35.142	33.466	22.99	-0.17922	0.480713	0.51943	0.45448	0.030578
AE003853	761250	43.964	27.384	41.254	27.982	22.946	-0.6561	0.079435	1.279931	-0.40976	0.019923
AE003853	761750	60.526	31.152	29.166	36.594	34.626	0.945292	0.613228	-0.22782	0.944355	2.305365
AE003853	762250	66.894	26.762	29.642	36.49	28.538	1.560192	-0.01089	-0.16973	0.926792	1.111017
AE003853	762750	62.034	24.726	30.904	36.364	26.086	1.088541	-0.30089	-0.01368	0.905767	0.628765
AE003853	763250	45.828	32.726	32.036	31.268	21.77	-0.48108	0.833575	0.126169	0.102591	-0.21854
AE003853	763750	41.684	30.814	34.354	33.908	21.316	-0.88344	0.561174	0.413826	0.516864	-0.3095
AE003853	764250	56.286	27.76	26.852	29.4	16.568	0.528274	0.126684	-0.52237	-0.19378	-1.24141
AE003853	764750	63.392	24.512	20.398	33.698	24.87	1.214591	-0.33534	-1.32796	0.481423	0.382465
AE003853	765250	48.062	23.748	25.322	25.064	21.146	-0.27026	-0.4448	-0.71552	-0.87854	-0.3489
AE003853	765750	52.966	29.274	30.696	31.07	24.258	0.202969	0.338514	-0.047	0.065451	0.258532
AE003853	766250	44.622	27.688	31.688	26.534	24.492	-0.60583	0.112385	0.075402	-0.6496	0.302322
AE003853	766750	47.978	27.438	27.206	28.276	21.344	-0.28241	0.075881	-0.48442	-0.37664	-0.31624
AE003853	767250	47.4	27.818	28.736	33.044	15.914	-0.33969	0.128797	-0.29497	0.37252	-1.38172
AE003853	767750	50.458	32.016	22.934	44.844	21.654	-0.0451	0.723622	-1.0193	2.228343	-0.2596
AE003853	768250	62.132	26.782	27.73	41.894	18.958	1.08327	-0.02029	-0.42281	1.762892	-0.78964
AE003853	768750	53.826	24.754	29.574	32.122	17.844	0.278145	-0.30915	-0.19423	0.223833	-1.00985
AE003853	769250	49.92	29.8	33.7	24.528	22.98	-0.10119	0.406033	0.31876	-0.97246	-0.00602
AE003853	769750	42.04	34.374	38.828	21.464	20.084	-0.86509	1.054226	0.956625	-1.45586	-0.57523
AE003853	770250	54.648	34.16	30.818	25.134	20.688	0.353667	1.022832	-0.04289	-0.87949	-0.45898
AE003853	770750	45.766	38.416	22.684	33.656	23.196	-0.5072	1.625889	-1.05785	0.460462	0.030164
AE003853	771250	56.002	29.748	23.22	40.164	16.936	0.482013	0.394573	-0.99228	1.483459	-1.19787
AE003853	771750	53.828	20.682	24.278	34.13	21.77	0.270291	-0.89323	-0.86166	0.532666	-0.25319
AE003853	772250	38.696	22.226	29.134	24.558	17.904	-1.1954	-0.6751	-0.25769	-0.97492	-1.01237
AE003853	772750	31.36	14.282	23.614	32.094	22.788	-1.90665	-1.80366	-0.94688	0.209859	-0.05789
AE003853	773250	35.038	19.538	18.572	25.66	22.23	-1.55207	-1.05867	-1.57649	-0.80388	-0.16921
AE003853	773750	58.208	25.014	28.432	19.242	22.512	0.688785	-0.28245	-0.34888	-1.81511	-0.11602

AE003853	774250	54.976	16.296	38.032	30.714	23.782	0.374678	-1.52086	0.846327	-0.01091	0.130664
AE003853	774750	57.948	28.15	30.348	31.802	21.604	0.660942	0.160621	-0.11256	0.159122	-0.29793
AE003853	775250	40.424	30.148	17.9	36.672	19.932	-1.03622	0.443188	-1.66517	0.92434	-0.62742
AE003853	775750	51.332	21.434	19.894	23.552	29.08	0.018019	-0.79466	-1.41789	-1.14161	1.162142
AE003853	776250	55.456	24.446	25.232	22.306	24.69	0.415763	-0.36817	-0.75386	-1.33889	0.300341
AE003853	776750	47.056	30.598	34.606	34.166	19.794	-0.39846	0.504	0.413184	0.526371	-0.66056
AE003853	777250	41.066	23.166	38.746	42.826	22.102	-0.97946	-0.55188	0.927916	1.888038	-0.21058
AE003853	777750	49.57	23.016	33.534	29.882	25.726	-0.15786	-0.57419	0.277117	-0.15021	0.497123
AE003853	778250	49.368	40.5	39.544	27.176	24.188	-0.17875	1.906385	1.024905	-0.57726	0.193874
AE003853	778750	41.706	35.296	54.064	25.202	20.548	-0.92155	1.166733	2.833287	-0.88912	-0.52104
AE003853	779250	47.394	31.514	41.588	30.556	16.522	-0.37246	0.628913	1.277182	-0.04773	-1.31156
AE003853	779750	44.26	35.738	36.584	33.828	21.72	-0.67708	1.227429	0.652305	0.466003	-0.29559
AE003853	780250	33.326	19.41	27.128	31.298	18.888	-1.73652	-1.09111	-0.52742	0.06665	-0.85226
AE003853	780750	45.406	27.224	21.554	39.366	16.126	-0.56886	0.016951	-1.22334	1.335151	-1.39522
AE003853	781250	58.922	26.882	29.75	31.922	18.758	0.73776	-0.03261	-0.20311	0.16246	-0.8818
AE003853	781750	62.448	22.696	34.31	23.472	18.306	1.077636	-0.62777	0.363968	-1.16855	-0.97236
AE003853	782250	68.204	28.3	32.39	30.014	17.164	1.633311	0.166614	0.123447	-0.1402	-1.19805
AE003853	782750	55.384	22.206	26.686	27.984	21.638	0.391359	-0.69936	-0.58867	-0.46087	-0.32387
AE003853	783250	54.348	24.174	32.77	35.702	27.856	0.289762	-0.42105	0.168341	0.752551	0.891858
AE003853	783750	46.404	17.35	30.878	30.02	18.71	-0.48033	-1.39064	-0.06869	-0.14285	-0.90139
AE003853	784250	55.918	23.856	36.394	25.83	16.85	0.439011	-0.46823	0.617532	-0.80344	-1.2677
AE003853	784750	52.632	28.064	26.916	28.154	24.248	0.119679	0.128018	-0.56494	-0.4389	0.179132
AE003853	785250	61.488	31.46	21.96	30.672	21.404	0.975346	0.60901	-1.18383	-0.04383	-0.37989
AE003853	785750	53.144	31.598	27.532	31.75	17.342	0.166543	0.627578	-0.49063	0.124628	-1.17746
AE003853	786250	52.744	29.178	30.36	28.438	22.77	0.126493	0.283074	-0.13941	-0.39779	-0.11644
AE003853	786750	62.162	39.404	33.51	40.078	18.226	1.036546	1.733486	0.251938	1.43285	-1.0084
AE003853	787250	58.166	32.28	41.828	31.376	22.246	0.648506	0.721318	1.287371	0.062182	-0.22314
AE003853	787750	57.01	24.506	37.984	32.944	22.844	0.535297	-0.38311	0.807064	0.307749	-0.10806
AE003853	788250	60.142	26.38	29.03	15.386	16.648	0.837044	-0.11814	-0.3101	-2.45663	-1.32356
AE003853	788750	49.924	31.956	16.986	21.77	18.946	-0.15311	0.672271	-1.81236	-1.45314	-0.87555
AE003853	789250	54.074	21.672	21.804	30.352	21.278	0.247152	-0.78841	-1.21313	-0.10375	-0.42087
AE003853	789750	48.454	26.976	26.68	32.48	19.11	-0.29805	-0.03661	-0.60667	0.229943	-0.8475
AE003853	790250	43.728	24.262	32.05	34.15	25.614	-0.75673	-0.42284	0.061351	0.491563	0.42424
AE003853	790750	45.292	31.166	33.134	32.32	27.712	-0.60672	0.556063	0.195216	0.202372	0.833087
AE003853	791250	54.412	47.802	49.152	42.612	28.162	0.274495	2.916281	2.190293	1.820873	0.91918
AE003853	791750	65.852	36.146	49.062	43.872	31.378	1.38022	1.260862	2.177844	2.017969	1.546982
AE003853	792250	65.144	31.124	34.044	42.832	20.666	1.310365	0.547042	0.304931	1.853104	-0.55296

AE003853	792750	54.664	31.698	32.024	35.44	31.696	0.294858	0.627493	0.051948	0.688596	1.605185
AE003853	793250	47.598	27.408	31.526	28.148	25.21	-0.39027	0.01757	-0.01135	-0.46017	0.332891
AE003853	793750	55.862	24.838	42.938	32.732	20.78	0.408108	-0.34822	1.409685	0.260034	-0.53674
AE003853	794250	55.66	24.16	44.454	32.908	33.222	0.387218	-0.44548	1.59739	0.286536	1.897932
AE003853	794750	59.87	28.43	33.354	26.064	35.538	0.793285	0.159569	0.212774	-0.79173	2.349473
AE003853	795250	56.018	21.18	23.842	20.844	24.302	0.41918	-0.87048	-0.97393	-1.61442	0.146911
AE003853	795750	51.694	20.42	37.078	36.526	19.458	-0.0006	-0.97937	0.674427	0.852329	-0.8038
AE003853	796250	55.088	16.728	36.62	29.184	27.194	0.3265	-1.50442	0.616115	-0.30431	0.709222
AE003853	796750	59.888	27.806	36.602	28.508	28.928	0.789662	0.066922	0.612639	-0.41189	1.04678
AE003853	797250	58.462	17.32	48.034	37.524	20.184	0.650325	-1.42243	2.036166	1.005801	-0.66773
AE003853	797750	46.714	15.558	45.316	34.1	20.956	-0.48789	-1.67354	1.696192	0.465755	-0.51858
AE003853	798250	49.54	24.56	48.052	28.548	29.556	-0.21575	-0.39686	2.035944	-0.40918	1.163658
AE003853	798750	48.188	32.528	42.458	40.806	24.442	-0.34793	0.733061	1.337536	1.518716	0.160064
AE003853	799250	52.568	28.598	30.346	51.792	24.146	0.074588	0.174235	-0.1732	3.246435	0.100056
AE003853	799750	39.264	29.032	32.192	53.254	23.712	-1.2142	0.234815	0.055628	3.475321	0.013021
AE003853	800250	47.636	33.78	25.076	35.742	22.356	-0.40537	0.907705	-0.83247	0.718184	-0.25458
AE003853	800750	52.058	30.032	25.188	34.634	21.128	0.021211	0.374711	-0.81974	0.542617	-0.49712
AE003853	801250	57.996	30.828	25.428	37.87	21.516	0.594499	0.486672	-0.79106	1.050685	-0.42317
AE003853	801750	44.664	34.692	30.092	36.608	18.658	-0.697	1.03409	-0.21102	0.850882	-0.98494
AE003853	802250	42.234	24.546	29.426	35.71	19.524	-0.9335	-0.40701	-0.29526	0.708364	-0.81737
AE003853	802750	49.948	23.684	27.558	39.272	26.792	-0.18834	-0.53037	-0.5293	1.267736	0.603999
AE003853	803250	46.884	33.944	35.69	26.874	33.284	-0.48619	0.924863	0.482953	-0.68459	1.873392
AE003853	803750	49.142	31.276	36.508	22.466	27.038	-0.26902	0.545159	0.583667	-1.37949	0.648101
AE003853	804250	45.142	25.23	25.234	25.568	19.464	-0.65745	-0.314	-0.82263	-0.89251	-0.83727
AE003853	804750	51.928	26.232	27.722	24.18	21.876	-0.0021	-0.1728	-0.51379	-1.11214	-0.36693
AE003853	805250	51.422	19.884	35.604	27.262	26.74	-0.05241	-1.07483	0.467304	-0.62831	0.583625
AE003853	805750	58.34	21.17	40.972	34.574	23.328	0.615717	-0.89332	1.13508	0.521215	-0.08664
AE003853	806250	46.14	25.976	38.3	26.796	21.522	-0.56624	-0.2122	0.800839	-0.70404	-0.44237
AE003853	806750	48.352	35.572	28.422	29.31	22.39	-0.35352	1.148795	-0.43148	-0.3096	-0.27442
AE003853	807250	42.018	26.764	30.202	29.142	20.874	-0.96781	-0.10239	-0.21087	-0.33723	-0.57336
AE003853	807750	46.652	26.478	22.796	20.746	15.048	-0.52071	-0.14401	-1.13511	-1.65974	-1.71639
AE003853	808250	43.752	30.626	34.818	21.854	23.118	-0.80269	0.443723	0.36195	-1.48657	-0.13796
AE003853	808750	58.082	24.16	43.988	27.8	24.652	0.582702	-0.47505	1.503566	-0.55202	0.160433
AE003853	809250	71.408	25.214	28.012	31.488	13.306	1.870938	-0.32647	-0.48874	0.027186	-2.06367
AE003853	809750	61.904	27.724	25.594	30.262	20.516	0.94988	0.028766	-0.79133	-0.16695	-0.65366
AE003853	810250	49.568	25.1	22.632	26.06	25.004	-0.24523	-0.34469	-1.16171	-0.82943	0.223257
AE003853	810750	48.98	28.756	20.958	25.892	16.126	-0.30348	0.173204	-1.37157	-0.85707	-1.5175

AE003853	811250	42.638	27.586	39.33	27	18.37	-0.91854	0.00612	0.91688	-0.68389	-1.08006
AE003853	811750	41.814	20.736	40.26	27.374	22.626	-0.99962	-0.96716	1.031553	-0.62623	-0.24858
AE003853	812250	48.114	22.316	31.124	28.696	18.686	-0.39131	-0.74392	-0.10829	-0.41938	-1.02225
AE003853	812750	46.044	28.182	34.966	41.554	30.69	-0.59296	0.087654	0.369301	1.602945	1.326647
AE003853	813250	46.084	35.74	32.22	31.042	26.17	-0.59043	1.159382	0.025837	-0.05257	0.439386
AE003853	813750	53.772	34.384	27.126	33.026	23.214	0.152204	0.965897	-0.61026	0.258464	-0.14157
AE003853	814250	58.842	26.066	35.15	30.586	24.81	0.641494	-0.21574	0.388535	-0.12673	0.16896
AE003853	814750	56.39	22.594	43.782	28.692	26.158	0.402869	-0.70956	1.463101	-0.42599	0.430922
AE003853	815250	65.64	15.9	22.604	23.802	22.986	1.296664	-1.6607	-1.17753	-1.19675	-0.19234
AE003853	815750	62.216	26.23	31.242	26.296	18.336	0.963977	-0.19552	-0.10221	-0.80545	-1.10506
AE003853	816250	57.644	28.542	40.84	27.792	17.832	0.520197	0.131611	1.092744	-0.57121	-1.2058
AE003853	816750	70.412	33.784	45.406	27.686	19.464	1.754434	0.874617	1.660568	-0.58909	-0.88822
AE003853	817250	52.234	29.264	25.062	23.958	18.224	-0.00602	0.232049	-0.87612	-1.17698	-1.13311
AE003853	817750	52.46	28.104	29.338	28.246	20.566	0.014509	0.066384	-0.34444	-0.50335	-0.67648
AE003853	818250	68.44	23.254	28.422	28.412	23.156	1.559577	-0.62302	-0.45983	-0.47843	-0.17127
AE003853	818750	58.518	28.264	28.844	25.592	19.886	0.598069	0.087054	-0.40847	-0.92342	-0.81373
AE003853	819250	53.406	25.474	29.606	28.774	21.614	0.102031	-0.30997	-0.31474	-0.42385	-0.47734
AE003853	819750	68.762	24.336	23.012	30.45	20.212	1.586714	-0.47251	-1.13777	-0.16128	-0.75396
AE003853	820250	69.806	30.888	37.488	32.74	24.31	1.686402	0.456433	0.665126	0.197907	0.046582
AE003853	820750	74.672	37.194	33.406	44.202	26.304	2.155951	1.350458	0.155157	2.000537	0.435061
AE003853	821250	49.504	36.13	34.908	41.902	25.812	-0.28094	1.198419	0.341118	1.63738	0.336667
AE003853	821750	46.552	26.424	32.716	38.99	16.836	-0.56795	-0.18023	0.066698	1.17791	-1.42328
AE003853	822250	36.736	22.438	31.72	33.316	14.8	-1.5192	-0.747	-0.05867	0.283771	-1.82406
AE003853	822750	48.932	34.4	36.564	21.178	19.95	-0.34031	0.949811	0.543806	-1.62764	-0.8175
AE003853	823250	63.148	38.64	27.966	31.464	24.05	1.034049	1.550597	-0.52899	-0.01008	-0.01657
AE003853	823750	55.632	34.238	33.658	31.27	25.06	0.305373	0.924778	0.179168	-0.0418	0.179201
AE003853	824250	47.236	30.996	37.276	26.086	16.754	-0.50846	0.463603	0.628844	-0.85883	-1.44953
AE003853	824750	53.56	24.648	33.07	28.324	26.292	0.10218	-0.43842	0.103421	-0.50782	0.416407
AE003853	825250	51.012	27.982	34.902	43.564	24.868	-0.14574	0.03377	0.330509	1.889369	0.135485
AE003853	825750	56.116	26.758	31.538	31.59	22.282	0.346846	-0.14098	-0.08998	0.003771	-0.37301
AE003853	826250	53.48	17.542	28.138	30.076	31.264	0.090415	-1.45008	-0.51495	-0.23569	1.384039
AE003853	826750	52.934	21.128	36.532	27.53	35.282	0.036236	-0.94211	0.529956	-0.63756	2.16891
AE003853	827250	53.224	19.978	34.102	26.554	31.952	0.062958	-1.10636	0.225875	-0.79235	1.514705
AE003853	827750	42.646	19.89	29.73	26.362	30.626	-0.96203	-1.11987	-0.32024	-0.82377	1.252975
AE003853	828250	33.934	32.246	28.928	26.254	25.994	-1.80645	0.632864	-0.42142	-0.84196	0.34378
AE003853	828750	43.11	30.584	22.466	28.064	17.864	-0.91981	0.395947	-1.22801	-0.55831	-1.25049
AE003853	829250	61.186	23.488	36.526	27.966	17.244	0.828088	-0.61225	0.523045	-0.57493	-1.37395

AE003853	829750	54.054	24.94	38.222	31.158	21.312	0.136572	-0.40718	0.733184	-0.07378	-0.57928
AE003853	830250	43.082	46.962	34.252	32.544	23.392	-0.92655	2.717506	0.237174	0.143143	-0.17396
AE003853	830750	42.504	40.976	29.966	24.9	18.792	-0.98382	1.866861	-0.29822	-1.06102	-1.07689
AE003853	831250	41.004	27.092	27.754	25.82	27.862	-1.13032	-0.10479	-0.57513	-0.91743	0.697392
AE003853	831750	49.988	30.316	30.962	29.788	26.616	-0.26227	0.351789	-0.17655	-0.29417	0.45133
AE003853	832250	52.062	27.638	38.626	34.158	28.116	-0.0629	-0.02933	0.777371	0.392362	0.743061
AE003853	832750	64.454	22.01	38.834	37.242	17.526	1.134949	-0.82917	0.802061	0.876508	-1.33298
AE003853	833250	74.494	29.748	44.528	42.904	29.844	2.105193	0.26811	1.510467	1.766366	1.077407
AE003853	833750	73.194	33.394	47.89	53.268	30.218	1.978049	0.784587	1.928237	3.396199	1.148615
AE003853	834250	57.098	36.288	44.06	50.32	29.52	0.419073	1.194328	1.449675	2.931063	1.009877
AE003853	834750	55.76	21.65	27.342	51.81	29.1	0.288252	-0.88434	-0.63511	3.164355	0.925584
AE003853	835250	53.256	37.988	29.998	40.318	33.608	0.044595	1.433579	-0.30533	1.354612	1.806419
AE003853	835750	62.234	45.152	33.38	40.486	27.404	0.912068	2.449384	0.114938	1.379855	0.589353
AE003853	836250	63.536	38.046	46.876	31.958	26.292	1.036723	1.439771	1.7957	0.03657	0.369535
AE003853	836750	58.484	38.342	42.46	37.04	24.544	0.546492	1.480764	1.244105	0.835151	0.025158
AE003853	837250	51.402	29.54	41.112	41.376	23.852	-0.14018	0.230429	1.074872	1.516331	-0.1124
AE003853	837750	50.984	20.924	29.926	28.236	20.098	-0.18198	-0.99351	-0.32046	-0.55277	-0.84965
AE003853	838250	57.972	23.328	31.21	33.482	20.692	0.492921	-0.65331	-0.16167	0.271625	-0.73535
AE003853	838750	49.868	34.3	33.62	30.642	22.27	-0.29266	0.902982	0.137453	-0.17651	-0.42835
AE003853	839250	44.086	30.528	37.698	40.366	23.574	-0.85353	0.366582	0.644458	1.352599	-0.175
AE003853	839750	39.054	35.602	32.022	39.094	24.526	-1.34183	1.085742	-0.06417	1.151222	0.009406
AE003853	840250	47.886	35.73	37.934	36.39	19.306	-0.48848	1.10289	0.671405	0.724486	-1.01495
AE003853	840750	57.07	43.664	40.366	36.936	21.862	0.398927	2.227986	0.973271	0.809216	-0.5164
AE003853	841250	52.3	41.462	24.586	26.262	27.516	-0.06401	1.914424	-0.99461	-0.87179	0.588871
AE003853	841750	56.306	31.408	28.464	23.38	32.092	0.322311	0.486385	-0.51253	-1.32654	1.483024
AE003853	842250	62.302	49.638	29.258	34.242	25.826	0.901212	3.072848	-0.41481	0.381662	0.253816
AE003853	842750	56.228	57.872	38.472	40.246	21.542	0.31208	4.240525	0.732293	1.325342	-0.58723
AE003853	843250	63.432	38.478	39.06	43.154	28.686	1.007881	1.486809	0.804342	1.781791	0.809859
AE003853	843750	58.97	30.752	36.9	32.454	29.884	0.574745	0.389196	0.53391	0.096689	1.042444
AE003853	844250	48.974	27.578	42.18	32.912	24.532	-0.39392	-0.06233	1.190719	0.16757	-0.00776
AE003853	844750	62.306	24.602	29.684	26.148	23.054	0.894893	-0.48575	-0.36788	-0.89811	-0.29926
AE003853	845250	58.158	30.098	31.916	33.106	26.548	0.492143	0.293311	-0.09094	0.195709	0.382989
AE003853	845750	40.66	22.036	26.188	37.1	22.508	-1.20251	-0.85199	-0.80605	0.823066	-0.41027
AE003853	846250	38.468	16.754	29.656	32.382	24.034	-1.41597	-1.60272	-0.37507	0.079378	-0.11344
AE003853	846750	51.294	24.306	25.478	35.172	29.484	-0.17612	-0.53184	-0.897	0.517257	0.951878
AE003853	847250	62.296	32.622	22.526	32.848	26.682	0.887218	0.647477	-1.26614	0.150322	0.40108
AE003853	847750	57.492	35.336	29.952	32.526	17.074	0.420987	1.031669	-0.34187	0.098452	-1.48264

AE003853	848250	64.858	24.77	36.148	48.112	19.078	1.132464	-0.46904	0.429095	2.550094	-1.09221
AE003853	848750	49.818	25.608	26.834	35.296	17.27	-0.32432	-0.35112	-0.73293	0.531987	-1.44833
AE003853	849250	55.13	28.706	28.646	29.246	17.796	0.188389	0.087578	-0.50834	-0.42132	-1.34736
AE003853	849750	60.884	31.112	36.316	33.89	22.506	0.743871	0.428055	0.446335	0.308327	-0.42696
AE003853	850250	67.364	37.042	26.824	38.1	24.5	1.369609	1.268712	-0.73788	0.969677	-0.03848
AE003853	850750	59.834	47.848	32.766	28.288	29.4	0.639578	2.801446	0.001437	-0.57568	0.919124
AE003853	851250	54.056	41.994	36.184	24.276	25.818	0.079091	1.969536	0.426186	-1.20826	0.215566
AE003853	851750	56.89	32.01	36.848	34.124	25.558	0.352	0.551433	0.507707	0.340369	0.162608
AE003853	852250	55.174	21.518	29.302	36.454	33.09	0.184599	-0.93877	-0.43398	0.705855	1.635681
AE003853	852750	63.028	16.962	19.744	22.91	38.354	0.943301	-1.58645	-1.62641	-1.42682	2.664576
AE003853	853250	53.47	29.662	34.3	28.922	41.31	0.017018	0.215109	0.186454	-0.48188	3.241458
AE003853	853750	43.33	29.688	37.584	26.328	30.046	-0.96559	0.21778	0.594504	-0.89131	1.033413
AE003853	854250	44.958	24.146	28.544	30.462	26.042	-0.80938	-0.56985	-0.53338	-0.24192	0.247208
AE003853	854750	64.924	16.78	35.732	29.378	18.044	1.121415	-1.61636	0.361225	-0.41371	-1.3212
AE003853	855250	57.314	31.214	35.596	36.15	27.75	0.383642	0.431314	0.343043	0.650838	0.577637
AE003853	855750	57.612	30.364	30.312	44.084	26.844	0.411139	0.309649	-0.31673	1.89825	0.398163
AE003853	856250	53.644	41.058	32.174	26.892	24.126	0.025808	1.826486	-0.0859	-0.80853	-0.13618
AE003853	856750	50.16	40.42	27.548	22.8	20.764	-0.31269	1.734912	-0.66367	-1.4537	-0.79666
AE003853	857250	39.932	25.522	21.3	24.234	23.196	-1.30381	-0.38066	-1.44359	-1.22922	-0.3224
AE003853	857750	51.554	41.342	34.426	27.956	13.404	-0.18047	1.863736	0.191064	-0.64467	-2.24216
AE003853	858250	63.156	34.168	32.38	23.296	14.52	0.940934	0.844472	-0.06516	-1.37923	-2.02563
AE003853	858750	49.888	25.022	34.694	21.346	16.528	-0.34437	-0.45469	0.221999	-1.68731	-1.63441
AE003853	859250	58.802	31.622	38.652	27.162	23.324	0.516908	0.481064	0.714049	-0.77321	-0.30548
AE003853	859750	55.99	31.3	46.04	24.52	25.75	0.243445	0.434341	1.633576	-1.19019	0.167604
AE003853	860250	49.936	22.29	47.146	22.894	25.188	-0.34375	-0.84552	1.770183	-1.44728	0.055501
AE003853	860750	67.438	20.932	37.082	33.418	27.02	1.348603	-1.03928	0.514683	0.207735	0.412252
AE003853	861250	79.326	25.766	39.484	38.882	23.892	2.497681	-0.35419	0.81281	1.066433	-0.20239
AE003853	861750	78.264	34.566	47.752	35.418	25.186	2.393569	0.893823	1.842011	0.520092	0.048995
AE003853	862250	55.672	31.756	34.962	31.496	29.17	0.205965	0.493965	0.246771	-0.09833	0.827207
AE003853	862750	61.974	28.292	45.37	32.912	24.182	0.814478	0.00128	1.542679	0.12332	-0.15171
AE003853	863250	59.744	32.66	46.684	39.12	15.702	0.597336	0.620234	1.705209	1.099104	-1.81452
AE003853	863750	51.572	22.934	35.808	31.718	19.944	-0.19482	-0.76125	0.34851	-0.06698	-0.98578
AE003853	864250	56.67	27.106	28.232	30.068	22.69	0.297178	-0.17011	-0.59691	-0.32784	-0.45003
AE003853	864750	56.69	30.674	29.374	26.288	25.04	0.297772	0.335291	-0.45582	-0.92391	0.008174
AE003853	865250	60.206	37.058	27.252	22.53	30.108	0.63668	1.240387	-0.72151	-1.51652	0.998683
AE003853	865750	68.928	24.294	34.854	32.134	29.242	1.47938	-0.5723	0.224683	-0.00629	0.827043
AE003853	866250	59.716	30.77	37.272	39.428	26.052	0.586579	0.345857	0.524804	1.1404	0.200256

AE003853	866750	62.866	21.408	38.824	29.178	25.846	0.890068	-0.98396	0.716995	-0.47388	0.157874
AE003853	867250	59.838	26.722	39.664	28.742	21.632	0.595703	-0.23074	0.820451	-0.5437	-0.66946
AE003853	867750	56.03	35.262	30.534	39.104	17.596	0.225855	0.980372	-0.31865	1.085823	-1.46193
AE003853	868250	45.292	22.754	29.966	42.26	20.2	-0.81462	-0.79598	-0.39067	1.5813	-0.95399
AE003853	868750	53.792	35.874	34.106	29.534	17.514	0.006598	1.065196	0.124065	-0.42264	-1.48207
AE003853	869250	59.76	24.53	31.594	19.766	14.398	0.582789	-0.54594	-0.19024	-1.96107	-2.09436
AE003853	869750	56.25	23.912	26.436	22.796	20.642	0.24178	-0.63467	-0.83431	-1.48542	-0.87354
AE003853	870250	58.022	31.494	22.804	23.388	22.18	0.411918	0.44046	-1.28819	-1.39345	-0.57436
AE003853	870750	79.706	26.366	26.226	22.428	24.286	2.50897	-0.28841	-0.86294	-1.54573	-0.16395
AE003853	871250	45.314	31.832	32.4	20.35	24.344	-0.82054	0.486394	-0.09472	-1.87395	-0.15463
AE003853	871750	37.188	26.952	35.62	32.074	21.906	-1.60824	-0.20727	0.305357	-0.03009	-0.63414
AE003853	872250	41.254	24.26	28.602	31.996	18.172	-1.21611	-0.59038	-0.57052	-0.04356	-1.36746
AE003853	872750	42.052	36.234	26.746	32.534	20.41	-1.14023	1.108134	-0.80307	0.039913	-0.9312
AE003853	873250	51.334	38.078	38.654	44.856	24.374	-0.24334	1.368843	0.679784	1.977885	-0.1569
AE003853	873750	43.72	35.336	29.524	30.728	26.502	-0.9815	0.978637	-0.45931	-0.2467	0.257818
AE003853	874250	50.056	30.13	31.924	27.85	37.922	-0.36969	0.238701	-0.16144	-0.70082	2.49234
AE003853	874750	52.022	31.458	30.372	26.716	30.708	-0.18078	0.426171	-0.35609	-0.88048	1.07747
AE003853	875250	63.828	37.858	37.754	26.952	17.808	0.960361	1.333538	0.562687	-0.84453	-1.45098
AE003853	875750	60.472	33.794	40.682	36.672	27.136	0.634254	0.755693	0.926369	0.683953	0.373833
AE003853	876250	43.814	25.308	31.464	35.444	18.368	-0.97911	-0.44979	-0.2237	0.489501	-1.34538
AE003853	876750	48.266	20.828	31.856	33.16	23.064	-0.54962	-1.08668	-0.17607	0.128862	-0.42773
AE003853	877250	48.004	20.62	47.832	29.398	30.622	-0.57632	-1.11722	1.813769	-0.46438	1.050438
AE003853	877750	52.452	33.886	34.906	34.992	24.52	-0.14722	0.764671	0.20158	0.41478	-0.14665
AE003853	878250	45.974	39.3	24.048	36.472	34.03	-0.77545	1.53209	-1.15288	0.646498	1.713804
AE003853	878750	51.196	27.986	32.814	37.128	27.868	-0.27145	-0.07479	-0.06161	0.74854	0.504964
AE003853	879250	63.948	23.878	27.652	32.908	23.188	0.961243	-0.65888	-0.70618	0.083224	-0.41363
AE003853	879750	68.96	34.128	35.372	45.434	24.304	1.44492	0.79494	0.254727	2.0533	-0.19711
AE003853	880250	60.07	39.6	31.146	23.896	24.136	0.58328	1.570591	-0.27319	-1.33743	-0.23205
AE003853	880750	53.582	37.288	39.766	32.922	24.606	-0.04591	1.241416	0.799882	0.081839	-0.14204
AE003853	881250	57.852	26.372	47.64	36.184	17.69	0.365959	-0.30897	1.779979	0.593999	-1.49854
AE003853	881750	50.48	25.392	45.582	27.616	23.532	-0.34878	-0.44909	1.52226	-0.75558	-0.35645
AE003853	882250	50.37	35.73	44.466	28.434	25.742	-0.36077	1.017221	1.381941	-0.62805	0.074331
AE003853	882750	69	32.476	41.912	22.41	31.702	1.440744	0.554344	1.062406	-1.57726	1.239534
AE003853	883250	65.314	24.712	31.914	20.046	29.262	1.082703	-0.54866	-0.18487	-1.95049	0.759632
AE003853	883750	67.328	32.684	32.938	27.224	23.172	1.276259	0.581827	-0.05848	-0.82206	-0.43511
AE003853	884250	59.946	30.252	35.384	27.966	19.664	0.56055	0.23562	0.245129	-0.70648	-1.12417
AE003853	884750	82.098	25.91	46.114	29.844	15.478	2.702892	-0.38168	1.581167	-0.41213	-1.94602

AE003853	885250	57.532	25.774	53.632	36.658	31.53	0.324261	-0.40201	2.516896	0.659026	1.195659
AE003853	885750	48.002	25.5	42.96	45.788	30.078	-0.59931	-0.44192	1.185621	2.094659	0.909253
AE003853	886250	51.856	25.16	36.88	37.614	24.084	-0.2277	-0.49119	0.426644	0.807085	-0.26669
AE003853	886750	47.614	17.342	27.168	36.442	18.734	-0.63954	-1.60187	-0.78499	0.621446	-1.3165
AE003853	887250	57.226	23.098	33.562	41.964	19.258	0.289284	-0.78591	0.010659	1.489271	-1.21591
AE003853	887750	64.244	26.134	35.128	37.142	22.806	0.967085	-0.35601	0.204595	0.729216	-0.52309
AE003853	888250	45.85	17.056	49.572	24.212	24.834	-0.81427	-1.64552	2.003506	-1.30683	-0.12795
AE003853	888750	57.58	17.644	39.646	23.678	21.546	0.319518	-1.56308	0.765204	-1.39207	-0.77393
AE003853	889250	50.456	25.242	32.664	46.938	18.742	-0.37122	-0.48568	-0.10619	2.267268	-1.32512
AE003853	889750	57.814	32.428	24.208	43.91	23.842	0.339479	0.533253	-1.16129	1.789542	-0.32835
AE003853	890250	55.11	32.634	23.68	32.19	22.09	0.076468	0.561472	-1.22832	-0.05608	-0.67351
AE003853	890750	46.32	27.178	30.882	33.13	19.008	-0.77549	-0.21395	-0.33198	0.090654	-1.27914
AE003853	891250	45.324	15.288	24.514	17.728	15.672	-0.87322	-1.90258	-1.12685	-2.33442	-1.93452
AE003853	891750	58.41	24.778	24.18	24.448	24.628	0.39179	-0.55663	-1.16971	-1.27806	-0.18256
AE003853	892250	53.968	24.938	33.27	25.41	25.79	-0.03941	-0.53494	-0.03806	-1.12786	0.042973
AE003853	892750	47.356	18.758	31.57	39.322	32.364	-0.6806	-1.41312	-0.25116	1.060333	1.328425
AE003853	893250	45.752	26.426	47.888	43.802	30.23	-0.83717	-0.32578	1.781304	1.764174	0.908452
AE003853	893750	54.108	29.75	50.756	37.366	20.044	-0.02989	0.144991	2.137508	0.750116	-1.08847
AE003853	894250	55.768	24.208	36.574	31.642	30.682	0.129413	-0.64264	0.368785	-0.15189	0.992899
AE003853	894750	56.886	22.042	34.288	33.408	33.544	0.236263	-0.95109	0.08265	0.124836	1.551372
AE003853	895250	53.166	23.894	26.12	35.094	33.012	-0.12507	-0.68924	-0.93655	0.388974	1.445144
AE003853	895750	59.522	18.286	27.212	36.92	26.242	0.48867	-1.48624	-0.80169	0.675144	0.11723
AE003853	896250	59.886	27.74	39.356	41.368	15.884	0.522553	-0.1454	0.710572	1.373949	-1.91338
AE003853	896750	51.358	35.594	31.582	24.17	27.074	-0.30406	0.968342	-0.25953	-1.33377	0.276097
AE003853	897250	45.55	24.658	24.616	19.572	11.686	-0.86745	-0.58488	-1.12893	-2.05858	-2.73962
AE003853	897750	50.53	29.182	32.442	26.39	18.222	-0.38686	0.056213	-0.15481	-0.98679	-1.46161
AE003853	898250	62.134	28.67	42.992	35.33	25.962	0.734731	-0.01748	1.158793	0.418938	0.052203
AE003853	898750	62.822	34.7	46.858	32.486	27.298	0.799968	0.837373	1.639377	-0.02983	0.311815
AE003853	899250	54.86	29.292	40.018	28.586	32.446	0.028132	0.068766	0.785681	-0.64479	1.317992
AE003853	899750	48.422	30.562	30.93	23.694	20.254	-0.59622	0.248004	-0.34818	-1.41586	-1.0718
AE003853	900250	60.266	37.356	25.846	29.78	19.456	0.548596	1.211293	-0.98303	-0.45927	-1.23012
AE003853	900750	63.364	32	38.266	24.054	22.872	0.847053	0.450067	0.563633	-1.3616	-0.56315
AE003853	901250	66.608	31.36	40.712	29.4	24.708	1.159639	0.358209	0.867243	-0.52147	-0.20562
AE003853	901750	55.452	31.174	38.764	38.154	23.144	0.078714	0.330789	0.623233	0.854992	-0.51396
AE003853	902250	60.222	35.412	46.462	40.188	25.084	0.538973	0.931292	1.581395	1.173896	-0.13605
AE003853	902750	63.598	36.712	42.838	30.308	28.524	0.864333	1.114788	1.128507	-0.38216	0.535619
AE003853	903250	66.062	35.326	39.122	38.95	38.416	1.101436	0.917045	0.664152	0.976674	2.470888

AE003853	903750	55.844	29.598	33.9	20.856	39.48	0.111284	0.103019	0.012106	-1.87205	2.67723
AE003853	904250	58.002	22.062	35.488	32.964	20.044	0.318775	-0.96763	0.208785	0.032239	-1.13127
AE003853	904750	62.04	24.272	35.912	40.048	21.244	0.708197	-0.65497	0.260395	1.145884	-0.89829
AE003853	905250	61.958	33.214	35.89	46.178	23.806	0.698921	0.613198	0.25642	2.109393	-0.39857
AE003853	905750	52.5	35.494	48.962	36.852	39.576	-0.21769	0.935791	1.88434	0.640523	2.68788
AE003853	906250	60.622	24.102	42.078	35.254	25.282	0.566952	-0.68216	1.02516	0.387843	-0.11358
AE003853	906750	54.246	39.808	34.734	35.422	18.068	-0.0514	1.546061	0.108651	0.413086	-1.52845
AE003853	907250	48.986	27.472	24.408	32.948	17.436	-0.56176	-0.20587	-1.1795	0.022545	-1.65426
AE003853	907750	41.256	19.696	28.714	41.958	19.242	-1.31115	-1.31058	-0.64408	1.439293	-1.3026
AE003853	908250	42.318	16.176	32.402	35.9	20.492	-1.20972	-1.81122	-0.18568	0.484723	-1.05983
AE003853	908750	43.824	13.572	26.722	30.524	27.248	-1.06532	-2.18184	-0.89481	-0.36252	0.261264
AE003853	909250	49.678	15.838	28.318	23.928	42.982	-0.50016	-1.86123	-0.69713	-1.40176	3.340665
AE003853	909750	57.976	29.502	34.25	34.884	35.85	0.301505	0.077155	0.040935	0.321242	1.941855
AE003853	910250	69.362	24.282	36.078	35.724	35.198	1.402004	-0.66477	0.267524	0.452241	1.812125
AE003853	910750	58.242	17.788	33.584	49.328	24.338	0.324564	-1.58752	-0.04453	2.591967	-0.3168
AE003853	911250	52.696	23.732	35.99	41.768	24.25	-0.21347	-0.74487	0.254092	1.40102	-0.33607
AE003853	911750	63.92	31.546	36.144	43.802	29.726	0.87135	0.363192	0.272052	1.719924	0.734343
AE003853	912250	45.698	36.318	39.94	41.918	36.156	-0.89336	1.039488	0.743912	1.422234	1.991594
AE003853	912750	61.598	29.116	37.07	38.238	39.39	0.643964	0.016249	0.384993	0.841901	2.622921
AE003853	913250	56.322	22.198	35.916	45.116	28.536	0.132056	-0.96668	0.239939	1.923126	0.495173
AE003853	913750	55.68	27.454	28.096	29.296	22.92	0.068588	-0.22169	-0.73589	-0.56773	-0.60674
AE003853	914250	57.89	34.67	37.452	32.944	26.12	0.281111	0.801499	0.428904	0.005173	0.017933
AE003853	914750	71.862	50.266	40.17	34.818	28.574	1.631862	3.014104	0.766413	0.298896	0.496501
AE003853	915250	68.518	40.744	33.698	33.782	29.468	1.306916	1.661575	-0.04142	0.13466	0.669549
AE003853	915750	60.22	45.762	23.614	25.314	26.774	0.502565	2.372787	-1.29941	-1.19918	0.139903
AE003853	916250	45.832	32.2	26.292	25.834	24.472	-0.89112	0.446839	-0.96689	-1.11854	-0.31297
AE003853	916750	51.93	37.582	33.918	34.926	21.674	-0.30235	1.209715	-0.0177	0.311109	-0.86299
AE003853	917250	51.494	38.682	34.272	34.098	28.186	-0.34589	1.364825	0.025187	0.179607	0.410323
AE003853	917750	41.968	36.948	43.726	34.412	24.664	-1.26907	1.117689	1.202198	0.227826	-0.28148
AE003853	918250	47.28	25.972	37.85	34.286	29.118	-0.75636	-0.44121	0.468645	0.206801	0.588776
AE003853	918750	52.312	23.614	30.864	33.644	21.302	-0.27075	-0.77692	-0.40325	0.104571	-0.94399
AE003853	919250	50.516	26.968	19.704	36.018	20.1	-0.44589	-0.30189	-1.79534	0.476982	-1.18144
AE003853	919750	62.904	28.066	23.246	29.918	25.706	0.75157	-0.14706	-1.35514	-0.4842	-0.08556
AE003853	920250	63.73	36.984	38.158	27.586	28.552	0.830162	1.117699	0.5021	-0.85239	0.469775
AE003853	920750	61.458	36.744	38.074	39.712	30.488	0.608955	1.082615	0.490399	1.054735	0.846895
AE003853	921250	64.89	26.68	28.57	20.756	30.224	0.939734	-0.34684	-0.69531	-1.92965	0.793154
AE003853	921750	53.77	21.912	24.412	25.958	17.326	-0.13771	-1.02461	-1.21475	-1.11218	-1.7349

AE003853	922250	59.438	22.522	39.634	37.848	26.69	0.409453	-0.93905	0.681122	0.757801	0.096959
AE003853	922750	81.948	38.212	40.254	35.22	32.58	2.586439	1.286896	0.75716	0.343025	1.248453
AE003853	923250	78.888	38.922	34.314	38.37	32.642	2.288977	1.386651	0.01563	0.837559	1.258557
AE003853	923750	84.256	20.308	43.81	30.172	30.64	2.807105	-1.25636	1.197876	-0.45379	0.864436
AE003853	924250	70.226	34.082	32.734	44.166	37.036	1.448059	0.697643	-0.18375	1.747309	2.115028
AE003853	924750	65.822	40.586	22.992	38.904	30.042	1.020536	1.619772	-1.39912	0.918009	0.743244
AE003853	925250	47.424	40.24	24.432	27.71	27.088	-0.76121	1.569642	-1.22089	-0.84484	0.162678
AE003853	925750	54.964	45.362	29.2	36.144	26.76	-0.03289	2.295616	-0.62789	0.481264	0.096402
AE003853	926250	53.098	45.052	34.616	41.334	24.092	-0.21481	2.250596	0.045872	1.296841	-0.42815
AE003853	926750	46.744	38.81	23.474	38.354	25.878	-0.83104	1.363615	-1.34398	0.826669	-0.08041
AE003853	927250	61.778	32.268	23.472	42.206	26.592	0.622486	0.434053	-1.34546	1.43168	0.057386
AE003853	927750	68.638	39.256	35.944	39.01	34.954	1.284997	1.424878	0.207682	0.927515	1.693011
AE003853	928250	54.702	37.374	41.398	34.756	22.56	-0.06495	1.156736	0.886176	0.256848	-0.73634
AE003853	928750	58.992	19.016	38.65	29.49	22.392	0.348856	-1.44993	0.542463	-0.57308	-0.77128
AE003853	929250	62.628	28.63	45.932	32.794	20.706	0.699376	-0.08639	1.44878	-0.05431	-1.10351
AE003853	929750	45.514	27.936	32.182	31.202	18.392	-0.95811	-0.18591	-0.2661	-0.30605	-1.55874
AE003853	930250	43.788	20.776	22.32	31.114	23.044	-1.12648	-1.20319	-1.49643	-0.32109	-0.6497
AE003853	930750	41.842	30.25	29.016	23.52	17.91	-1.31614	0.140489	-0.66314	-1.51739	-1.65721
AE003853	931250	48.186	22.642	24.724	28.042	24.262	-0.70356	-0.94038	-1.19929	-0.80694	-0.41524
AE003853	931750	43.132	24.8	29.28	21.296	18.522	-1.19399	-0.6351	-0.63271	-1.86978	-1.54143
AE003853	932250	62.172	29.136	40.14	20.624	24.504	0.647201	-0.02069	0.719532	-1.97673	-0.37192
AE003853	932750	50.184	18.954	23.904	21.938	25.56	-0.51424	-1.46689	-1.30518	-1.77114	-0.16714
AE003853	933250	56.746	25.186	26.5	20.488	41.196	0.119436	-0.58337	-0.98287	-2.00053	2.893064
AE003853	933750	58.944	25.776	26.916	27.884	32.87	0.330799	-0.50065	-0.93226	-0.83778	1.260414
AE003853	934250	62.306	25.11	31.37	30.652	28.044	0.654803	-0.5962	-0.3784	-0.40337	0.313224
AE003853	934750	53.496	30.842	42.226	35.976	32.26	-0.1991	0.216356	0.973345	0.433298	1.136872
AE003853	935250	53.268	34.512	39.714	34.922	28.252	-0.2225	0.736239	0.659044	0.266229	0.349884
AE003853	935750	45.62	26.108	41.624	31.73	30.758	-0.96395	-0.45761	0.895853	-0.23731	0.838635
AE003853	936250	50.602	30.904	38.818	36.532	39.124	-0.48318	0.222096	0.544911	0.51721	2.475044
AE003853	936750	45.564	22.27	34.68	48.882	33.562	-0.97205	-1.00439	0.027963	2.459588	1.383711
AE003853	937250	46.818	19.144	37.676	43.28	29.568	-0.85204	-1.4491	0.400119	1.576781	0.599465
AE003853	937750	49.434	23.272	34.492	42.49	26.094	-0.60023	-0.86421	0.002068	1.451259	-0.08294
AE003853	938250	61.24	29.862	31.6	34.148	22.892	0.540914	0.07012	-0.35959	0.137246	-0.71208
AE003853	938750	60.918	26.166	29.114	27.44	31.066	0.508413	-0.45549	-0.67065	-0.91962	0.886728
AE003853	939250	53.674	34.166	28.472	32.094	28.974	-0.19394	0.67897	-0.7519	-0.18839	0.474981
AE003853	939750	64.3	28.584	36.366	36.46	24.706	0.833011	-0.11433	0.230692	0.497507	-0.36293
AE003853	940250	65.206	24.702	24.492	32.906	17.118	0.919345	-0.66635	-1.25039	-0.063	-1.85104

AE003853	940750	51.52	26.832	23.022	45.44	17.382	-0.40641	-0.36504	-1.43482	1.908338	-1.80138
AE003853	941250	48.326	28.59	27.666	29.994	30.446	-0.71684	-0.11654	-0.85728	-0.52366	0.755114
AE003853	941750	62.574	24.53	31.114	31.364	32.952	0.660619	-0.69382	-0.42879	-0.30926	1.243866
AE003853	942250	59.3	21.946	22.568	32.144	29.06	0.342447	-1.0616	-1.4951	-0.1877	0.479596
AE003853	942750	64.566	28.268	25.258	37.3	31.116	0.850705	-0.1653	-1.16108	0.622526	0.880217
AE003853	943250	52.324	26.962	34.86	31.544	24.77	-0.33531	-0.35169	0.034372	-0.28452	-0.36466
AE003853	943750	55.378	24.614	44.778	28.874	21.004	-0.04111	-0.68598	1.269211	-0.7059	-1.10425
AE003853	944250	59.998	33.284	38.016	53.486	31.158	0.404629	0.543585	0.425236	3.166201	0.882329
AE003853	944750	69.936	31.746	32.768	39.392	26.584	1.365003	0.324268	-0.23005	0.94697	-0.01551
AE003853	945250	61.946	31.228	33.3	45.218	29.106	0.590457	0.249726	-0.16498	1.862637	0.476378
AE003853	945750	60.076	34.564	31.308	33.15	30.034	0.408153	0.722202	-0.41447	-0.03775	0.656085
AE003853	946250	52.648	31.14	38.148	29.064	24.88	-0.31201	0.235196	0.436757	-0.68198	-0.35534
AE003853	946750	59.156	25.162	54.814	37.572	19.726	0.316441	-0.61431	2.512593	0.655764	-1.36677
AE003853	947250	70.048	20.58	50.208	41.854	20.02	1.369135	-1.26568	1.937319	1.328446	-1.31123
AE003853	947750	53.362	36.846	25.086	35.968	21.562	-0.24694	1.042019	-1.19485	0.400944	-1.01127
AE003853	948250	42.672	20.282	28.66	29.718	24.61	-1.28276	-1.31002	-0.75065	-0.58384	-0.41637
AE003853	948750	48.282	29.492	37.082	34.698	27.91	-0.74122	-0.00381	0.297739	0.198686	0.22788
AE003853	949250	51.048	22.004	29.124	27.77	25.464	-0.47489	-1.06765	-0.69529	-0.8928	-0.2532
AE003853	949750	45.38	25.764	31.668	31.01	22.114	-1.02473	-0.53499	-0.37947	-0.3841	-0.91132
AE003853	950250	57.568	33.562	36.452	36.704	25.92	0.153379	0.570804	0.215525	0.510792	-0.16797
AE003853	950750	52.358	33.056	39.266	24.332	27.322	-0.35214	0.497965	0.564998	-1.43744	0.104571
AE003853	951250	71.188	42.12	38.404	42.118	32.48	1.468724	1.783448	0.456335	1.360425	1.112706
AE003853	951750	63.406	30.792	41.878	35.418	27.122	0.714307	0.174583	0.888064	0.30482	0.061326
AE003853	952250	49.628	20.438	36.854	27.118	26.998	-0.62035	-1.29604	0.260695	-1.00258	0.035004
AE003853	952750	54.642	21.94	32.394	27.728	28.12	-0.13648	-1.08387	-0.29638	-0.90778	0.252705
AE003853	953250	53.022	28.396	34.042	57.036	27.334	-0.29459	-0.16855	-0.09223	3.703353	0.096732
AE003853	953750	58.86	28.306	31.724	42.856	22.844	0.269018	-0.18235	-0.38235	1.470587	-0.78465
AE003853	954250	45.762	27.516	26.128	26.382	20.16	-0.99984	-0.2955	-1.08101	-1.12319	-1.31234
AE003853	954750	55.016	22.338	36.548	34.134	27.002	-0.10565	-1.03146	0.216395	0.095576	0.025597
AE003853	955250	59.818	28.012	40.324	25.266	24.938	0.357702	-0.22714	0.685762	-1.30122	-0.38067
AE003853	955750	62.948	35.516	37.446	30.432	24.954	0.659255	0.836928	0.325847	-0.48942	-0.37957
AE003853	956250	58.938	33.094	34.476	38.516	27.752	0.26986	0.49214	-0.04553	0.781603	0.166368
AE003853	956750	48.662	32.436	31.44	39.818	25.88	-0.72591	0.397727	-0.42514	0.985308	-0.20229
AE003853	957250	38.112	24.898	21.534	28.43	27.812	-1.74819	-0.6732	-1.66095	-0.80807	0.174043
AE003853	957750	54.338	25.216	29.66	32.02	26.904	-0.17931	-0.62909	-0.64945	-0.24429	-0.00582
AE003853	958250	41.506	20.476	45.836	41.494	31.42	-1.42243	-1.30288	1.365322	1.24548	0.876579
AE003853	958750	55.884	29.346	38.064	33.91	27.032	-0.03239	-0.04493	0.395472	0.050756	0.015169

AE003853	959250	63.358	31.658	25.412	30.452	25.744	0.689543	0.282202	-1.18257	-0.49464	-0.23912
AE003853	959750	69.714	37.39	36.146	23.534	33.744	1.303281	1.094756	0.153968	-1.58455	1.325611
AE003853	960250	68.066	39.414	55.008	31.696	23.782	1.14246	1.381013	2.50349	-0.30126	-0.62744
AE003853	960750	69.76	30.876	42.55	28.18	19.886	1.30505	0.168149	0.949628	-0.85578	-1.3925
AE003853	961250	66.778	27.858	32.646	33.83	33.766	1.015136	-0.26123	-0.28593	0.032187	1.323806
AE003853	961750	45.94	30.494	37.412	34.604	30.412	-1.00273	0.111889	0.306818	0.152798	0.664901
AE003853	962250	39.096	30.554	45.836	36.246	24.966	-1.66638	0.119386	1.355461	0.410011	-0.40371
AE003853	962750	50.716	35.054	37.598	32.54	22.516	-0.54323	0.757075	0.327534	-0.17441	-0.88557
AE003853	963250	56.142	38.682	24.59	33.834	32.246	-0.01949	1.270997	-1.29487	0.028032	1.017968
AE003853	963750	58.196	44.134	26.244	43.34	24.614	0.177937	2.043809	-1.08997	1.522838	-0.47877
AE003853	964250	39.754	36.262	24.184	32.556	29.594	-1.60807	0.925474	-1.34794	-0.17548	0.494509
AE003853	964750	53.04	23.678	37.412	31.994	28.694	-0.3237	-0.86166	0.299422	-0.26512	0.31621
AE003853	965250	61.952	37.626	39.56	35.456	21.432	0.537387	1.117034	0.565893	0.27851	-1.10806
AE003853	965750	67.492	39.126	30.414	23.83	22.518	1.072159	1.328917	-0.5752	-1.55232	-0.89741
AE003853	966250	46.53	24.03	34.198	26.228	32.82	-0.95771	-0.81476	-0.10483	-1.17613	1.118156
AE003853	966750	60.43	35.85	32.128	29.222	37.948	0.386076	0.861897	-0.36405	-0.70615	2.120416
AE003853	967250	65.752	34.768	34.28	26.066	32.608	0.899753	0.707303	-0.09708	-1.20402	1.072561
AE003853	967750	54.404	22.32	39.218	34.29	25.456	-0.19975	-1.06053	0.517107	0.089031	-0.33017
AE003853	968250	47.746	28.746	52.706	38.37	25.746	-0.8454	-0.14947	2.196872	0.729923	-0.27541
AE003853	968750	51.516	26.394	38.98	37.802	20.924	-0.48191	-0.48432	0.48498	0.639338	-1.22182
AE003853	969250	54.428	23.784	38.81	39.228	24.494	-0.20145	-0.8558	0.46256	0.862558	-0.52468
AE003853	969750	73.874	24.336	33.32	34.76	35.75	1.679025	-0.77847	-0.22289	0.158214	1.677719
AE003853	970250	65.228	20.79	47.504	30.744	29.758	0.840997	-1.28279	1.54362	-0.475	0.502173
AE003853	970750	45.114	26.46	32.546	43.516	21.998	-1.10681	-0.47904	-0.32181	1.533792	-1.01963
AE003853	971250	49.218	25.784	39.536	37.168	23.554	-0.711	-0.576	0.54811	0.533583	-0.71693
AE003853	971750	69.006	34.318	29.752	35.208	27.948	1.202576	0.634253	-0.67249	0.223933	0.141578
AE003853	972250	70.83	43.348	42.098	34.81	38.53	1.377746	1.91491	0.864945	0.160103	2.211981
AE003853	972750	70.69	40.144	40.064	30.99	29.596	1.362857	1.459129	0.610216	-0.44226	0.460256
AE003853	973250	59.568	25.076	24.142	28.504	22.49	0.285223	-0.68057	-1.37536	-0.83469	-0.93346
AE003853	973750	52.478	29.778	20.372	29.628	16.46	-0.40223	-0.01421	-1.84645	-0.659	-2.11645
AE003853	974250	47.286	28.382	37.158	28.064	20.9	-0.90601	-0.21337	0.244346	-0.90633	-1.24893
AE003853	974750	48.222	32.472	30.96	46.326	27.46	-0.81677	0.366121	-0.52934	1.966447	0.033778
AE003853	975250	59.586	28.102	30.798	26.094	22.258	0.281599	-0.25516	-0.55076	-1.21875	-0.98705
AE003853	975750	55.6	37.38	26.94	25.326	21.852	-0.10547	1.060701	-1.03281	-1.34081	-1.0686
AE003853	976250	61.644	43.084	41.562	27.494	25.788	0.478073	1.869281	0.788282	-1.00082	-0.29979
AE003853	976750	50.7	28.67	37.384	38.762	23.842	-0.58234	-0.1776	0.266349	0.771283	-0.68294
AE003853	977250	46.35	28.294	26.362	43.996	33.024	-1.00463	-0.23198	-1.10855	1.593784	1.113274

AE003853	977750	76.54	31.514	27.66	36.406	40.764	1.915557	0.224028	-0.94801	0.398117	2.627083
AE003853	978250	67.122	31.578	31.074	31.456	37.722	1.002822	0.232092	-0.52376	-0.38208	2.029282
AE003853	978750	65.182	38.978	38.5	38.118	31.136	0.813744	1.281394	0.400505	0.66515	0.737404
AE003853	979250	68.076	34.98	46.48	50.72	37.626	1.092459	0.712917	1.393813	2.647186	2.006405
AE003853	979750	79.43	28.008	39.21	46.59	29.77	2.189862	-0.27768	0.486526	1.996034	0.465802
AE003853	980250	84.106	31.894	46.306	43.614	30.502	2.641024	0.272864	1.369662	1.526492	0.607124
AE003853	980750	67.166	37.04	49.734	44.708	35.574	1.000373	1.002244	1.795658	1.697463	1.598416
AE003853	981250	68.114	35.446	36.576	54.912	19.846	1.090772	0.774979	0.154555	3.302116	-1.48389
AE003853	981750	69.45	34.682	31.566	38.084	23.98	1.218717	0.665521	-0.47107	0.652623	-0.6763
AE003853	982250	75.46	30.138	34.576	32.848	25.702	1.798973	0.019546	-0.09717	-0.17259	-0.34109
AE003853	982750	73.796	38.48	47.208	25.098	19.4	1.636604	1.202552	1.475914	-1.39343	-1.57735
AE003853	983250	59.766	26.726	47.524	18.28	24.206	0.277558	-0.46678	1.514064	-2.46761	-0.63815
AE003853	983750	43.896	37.606	33.196	26.638	22.27	-1.25955	1.07646	-0.27285	-1.15347	-1.01934
AE003853	984250	54.496	34.69	32.89	38.622	21.888	-0.23511	0.661557	-0.31222	0.731311	-1.0962
AE003853	984750	75.216	31.55	33.928	40.892	25.482	1.768654	0.21486	-0.18409	1.087355	-0.39436
AE003853	985250	71.316	39.988	42.998	33.582	31.588	1.389904	1.411491	0.945062	-0.06425	0.799433
AE003853	985750	55.074	40.452	48.97	25.796	30.49	-0.1832	1.476329	1.688115	-1.29076	0.582356
AE003853	986250	62.522	35.818	54.888	32.836	30.784	0.536212	0.81758	2.424437	-0.18404	0.637897
AE003853	986750	74.288	36.768	48.376	37.898	31.132	1.673485	0.951399	1.61162	0.611392	0.704014
AE003853	987250	67.17	37.97	28.47	30.632	27.834	0.983324	1.120986	-0.87048	-0.53329	0.056076
AE003853	987750	61.802	36.2	37.768	32.54	30.976	0.462513	0.86874	0.287089	-0.23421	0.669386
AE003853	988250	50.686	43.034	29.966	34.594	28.09	-0.61454	1.837707	-0.6865	0.087839	0.102137
AE003853	988750	50.446	31.372	27.432	39.212	25.164	-0.63911	0.181436	-1.00354	0.813398	-0.47295
AE003853	989250	59.024	30.156	27.75	39.148	23.746	0.189658	0.007823	-0.96514	0.80213	-0.75269
AE003853	989750	85.658	27.698	36.818	27.18	20.918	2.765729	-0.34207	0.163761	-1.08252	-1.30858
AE003853	990250	68.28	34.786	34.856	28.22	24.966	1.082693	0.662944	-0.08199	-0.92005	-0.51784
AE003853	990750	52.182	28.04	34.186	31.984	20.97	-0.47648	-0.29557	-0.16673	-0.32889	-1.30248
AE003853	991250	64.498	37.22	40.486	38.506	35.188	0.71402	1.006375	0.617202	0.696312	1.480023
AE003853	991750	57.464	28.114	43.788	31.29	28.766	0.031988	-0.28711	1.027495	-0.4405	0.220263
AE003853	992250	55.982	25.848	37.384	22.642	24.968	-0.11277	-0.60975	0.228138	-1.80267	-0.5256
AE003853	992750	52.118	30.074	34.344	38.688	31.52	-0.48804	-0.01095	-0.15197	0.721366	0.755547
AE003853	993250	59.484	36.154	23.698	34.274	28.52	0.223443	0.850993	-1.48	0.02552	0.165971
AE003853	993750	58.034	24.818	29.464	37.474	29.168	0.081783	-0.75901	-0.76262	0.527922	0.290841
AE003853	994250	51.91	25.802	29.38	25.608	21.694	-0.51219	-0.62036	-0.77432	-1.34068	-1.17495
AE003853	994750	35.042	23.448	32.512	21.67	26.022	-2.14587	-0.9555	-0.38522	-1.96162	-0.32937
AE003853	995250	35.888	27.092	28.538	24.46	39.104	-2.06534	-0.43931	-0.88173	-1.52374	2.230652
AE003853	995750	47.802	28.792	40.156	25.464	32.262	-0.91375	-0.19904	0.564981	-1.36693	0.888637

AE003853	996250	53.132	35.24	34.01	29.67	31.546	-0.3993	0.715145	-0.20222	-0.70621	0.746373
AE003853	996750	47.522	38.638	39.942	22.722	30.566	-0.94353	1.196421	0.535845	-1.80084	0.552406
AE003853	997250	59.964	28.25	44.332	32.57	36.282	0.259163	-0.27902	1.081734	-0.25221	1.669823
AE003853	997750	67.53	32.71	47.478	39.95	29.008	0.989995	0.352988	1.472585	0.908013	0.243203
AE003853	998250	67.402	30.224	45.938	41.522	38.156	0.976267	-0.00088	1.279423	1.15421	2.032763
AE003853	998750	65.792	28.452	46.92	35.916	31.358	0.819123	-0.25341	1.400577	0.270773	0.699365
AE003853	999250	47.748	32.97	46.602	38.954	26.204	-0.92836	0.386832	1.359712	0.747681	-0.31206
AE003853	999750	42.548	28.636	38.13	38.34	17.79	-1.43292	-0.22934	0.302621	0.649857	-1.96195
AE003853	1000250	38.356	30.66	45.878	32.044	24.8	-1.83992	0.056921	1.267015	-0.34217	-0.59111
AE003853	1000750	45.894	21.548	50.306	35.24	26.65	-1.1118	-1.23741	1.81764	0.159604	-0.23083
AE003853	1001250	58.062	21.604	51.376	34.972	24.952	0.064373	-1.23049	1.949761	0.116232	-0.56541
AE003853	1001750	48.604	17.718	34.272	32.194	24.322	-0.85223	-1.78307	-0.18313	-0.32215	-0.69083
AE003853	1002250	44.116	20.912	44.988	36.37	23.68	-1.28789	-1.33074	1.151165	0.333849	-0.81861
AE003853	1002750	54.756	22.656	39.17	30.324	25.564	-0.25958	-1.08423	0.42484	-0.61883	-0.45167
AE003853	1003250	66.326	21.42	40.014	20.442	30.04	0.858728	-1.26068	0.528794	-2.1752	0.422898
AE003853	1003750	55.862	27.81	30.79	27.084	30.678	-0.15523	-0.35473	-0.62202	-1.13112	0.54581
AE003853	1004250	51.386	34.004	35.26	31.392	32.034	-0.58972	0.523395	-0.06616	-0.45434	0.809339
AE003853	1004750	63.01	37.026	33.88	33.362	31.402	0.53381	0.951304	-0.23938	-0.14551	0.683527
AE003853	1005250	68.57	35.896	34.95	27.096	29.892	1.070518	0.789897	-0.10726	-1.13282	0.385762
AE003853	1005750	70.872	29.196	36.632	31.772	20.304	1.291945	-0.16209	0.101135	-0.39813	-1.49405
AE003853	1006250	57.02	32.49	43.302	40.53	24.098	-0.04988	0.304425	0.931179	0.978959	-0.75305
AE003853	1006750	64.708	44.41	34.564	33.36	23.368	0.692762	1.995275	-0.15906	-0.15061	-0.89805
AE003853	1007250	64.572	32.672	25.954	27.428	34.456	0.67826	0.328217	-1.23335	-1.08535	1.27145
AE003853	1007750	57.646	36.634	34.204	30.014	26.91	0.006679	0.889546	-0.20639	-0.67958	-0.20844
AE003853	1008250	50.834	47.688	49.088	40.094	21.656	-0.65387	2.45748	1.647352	0.90556	-1.23945
AE003853	1008750	56.848	32.942	45.488	40.384	30.294	-0.07323	0.36348	1.197455	0.950003	0.450226
AE003853	1009250	66.046	26.626	45.446	34.412	27.608	0.815536	-0.534	1.190988	0.008967	-0.07785
AE003853	1009750	76.722	17.064	37.962	38.742	28.448	1.847328	-1.89221	0.257031	0.689202	0.084619
AE003853	1010250	70.712	23.618	35.324	29.178	36.022	1.26439	-0.96299	-0.07297	-0.81712	1.565917
AE003853	1010750	61.074	22.402	37.806	34.964	33.086	0.330364	-1.1366	0.235123	0.09225	0.988876
AE003853	1011250	60.444	25.19	40.36	37.552	25.686	0.268057	-0.7419	0.552194	0.498339	-0.46242
AE003853	1011750	48.18	27.926	39.12	23.74	21.85	-0.92009	-0.35459	0.396421	-1.67651	-1.21572
AE003853	1012250	50.18	34.026	35.188	28.34	24.984	-0.72789	0.510199	-0.09485	-0.95379	-0.60398
AE003853	1012750	55.634	29.328	31.638	36.238	28.252	-0.20144	-0.15763	-0.53852	0.287961	0.034005
AE003853	1013250	65.992	22.216	36.984	34.936	30.764	0.79958	-1.1681	0.126515	0.081863	0.523932
AE003853	1013750	72.936	36.732	42.916	33.396	30.852	1.470221	0.891217	0.864582	-0.16169	0.539129
AE003853	1014250	64.188	33.718	31.004	30.474	38.796	0.622322	0.462404	-0.62123	-0.62273	2.09289

AE003853	1014750	65.04	34.604	28.014	42.176	33.176	0.70343	0.587139	-0.99511	1.217666	0.990199
AE003853	1015250	60.298	31.686	37.09	37.388	38.432	0.243198	0.171951	0.134795	0.462962	2.017527
AE003853	1015750	64.432	31.194	37.216	38.738	33.066	0.64191	0.101099	0.149266	0.674221	0.96458
AE003853	1016250	55.388	33.026	44.086	33.23	35.048	-0.23463	0.360105	1.004235	-0.19379	1.350708
AE003853	1016750	62.34	32.102	34.12	31.072	34.238	0.436782	0.227937	-0.23905	-0.5346	1.190035
AE003853	1017250	66.008	37.52	27.522	26.764	26.496	0.790398	0.995923	-1.06259	-1.21377	-0.32824
AE003853	1017750	52.026	34.938	35.182	42.602	20.344	-0.564	0.628426	-0.10916	1.277532	-1.53512
AE003853	1018250	51.658	34.494	31.418	41.944	24.384	-0.60096	0.564387	-0.5795	1.172784	-0.74594
AE003853	1018750	50.212	28.772	34.546	45.186	26.282	-0.74223	-0.24879	-0.19089	1.681796	-0.37627
AE003853	1019250	55.264	29.834	42.334	42.166	27.94	-0.25468	-0.09907	0.778489	1.205329	-0.05359
AE003853	1019750	58.48	27.73	36.59	32.284	33.01	0.055196	-0.39872	0.061387	-0.35104	0.937309
AE003853	1020250	55.032	34.816	33.708	35.994	26.03	-0.27981	0.606011	-0.29903	0.231622	-0.43173
AE003853	1020750	58.614	36.708	40.63	44.466	31.496	0.065481	0.873533	0.562423	1.563702	0.636723
AE003853	1021250	51.104	31.64	34.844	26.334	33.456	-0.66261	0.153184	-0.15991	-1.29101	1.018543
AE003853	1021750	52.782	40.838	32.442	31.906	34.938	-0.50157	1.457686	-0.46051	-0.41531	1.306748
AE003853	1022250	50.78	36.888	29.896	27.524	28.3	-0.69665	0.896021	-0.77904	-1.10612	0.004686
AE003853	1022750	54.06	28.798	38.062	20.766	27.836	-0.38058	-0.25326	0.237445	-2.17086	-0.08822
AE003853	1023250	56.404	25.842	31.626	26.55	27.896	-0.15509	-0.67384	-0.5659	-1.2618	-0.07851
AE003853	1023750	68.456	40.484	34.176	29.836	24.786	1.009859	1.403362	-0.24933	-0.74586	-0.68963
AE003853	1024250	44.824	40.736	31.164	29.366	26.474	-1.27839	1.438109	-0.62594	-0.82102	-0.36108
AE003853	1024750	47.05	34.684	32.51	29.338	40.4	-1.06432	0.578096	-0.45943	-0.82663	2.364231
AE003853	1025250	52.568	35.948	26.176	32.316	30.884	-0.53167	0.756483	-1.25006	-0.35916	0.498524
AE003853	1025750	49.62	37.54	34.744	22.668	22.054	-0.81829	0.981424	-0.18347	-1.8787	-1.23283
AE003853	1026250	64.356	34.95	44.272	29.608	26.572	0.606389	0.612792	1.002764	-0.78772	-0.35004
AE003853	1026750	72.574	38.902	45.852	37.11	27.39	1.400316	1.172701	1.198445	0.391705	-0.19188
AE003853	1027250	92.092	53.368	36.708	46.016	24.372	3.287761	3.224919	0.057604	1.792085	-0.78498
AE003853	1027750	63.508	38.908	31.102	35.514	23.354	0.520303	1.171512	-0.6423	0.138143	-0.98639
AE003853	1028250	60.192	28.822	49.532	33.66	20.408	0.198067	-0.26107	1.653382	-0.15482	-1.56538
AE003853	1028750	45.78	31.694	47.722	48.598	27.226	-1.19795	0.14555	1.426571	2.194838	-0.23215
AE003853	1029250	43.486	21.698	31.068	35.132	22.386	-1.42128	-1.27426	-0.65024	0.074438	-1.18208
AE003853	1029750	53.256	23.772	35.022	41.45	19.566	-0.47716	-0.9809	-0.15868	1.067534	-1.7364
AE003853	1030250	50.314	26.46	36.488	40.258	24.578	-0.76321	-0.6004	0.022789	0.878748	-0.75686
AE003853	1030750	43.26	35.876	31.35	36.784	25.24	-1.44717	0.735045	-0.61879	0.330833	-0.62925
AE003853	1031250	41.338	31.546	35.794	27.188	24.498	-1.63451	0.119445	-0.06617	-1.18053	-0.7766
AE003853	1031750	55.746	27.428	41.802	28.66	29.766	-0.24157	-0.46607	0.681371	-0.95007	0.253075
AE003853	1032250	53.874	27.72	30.922	36.548	26.9	-0.42407	-0.42564	-0.67583	0.290105	-0.31026
AE003853	1032750	54.234	42.894	30.61	40.672	23.812	-0.39057	1.727068	-0.71594	0.937921	-0.91707

AE003853	1033250	59.738	48.454	28.072	29.394	17.686	0.14072	2.51521	-1.03349	-0.83814	-2.11886
AE003853	1033750	71.138	33.678	26.462	30.592	29.822	1.242574	0.416952	-1.23537	-0.65081	0.255891
AE003853	1034250	60.56	34.738	36.796	30.318	27.582	0.217584	0.566383	0.051314	-0.69512	-0.18484
AE003853	1034750	72.53	28.032	44.122	33.214	25.248	1.374597	-0.38646	0.963114	-0.24056	-0.64398
AE003853	1035250	64.912	33.894	48.28	36.444	22.31	0.636051	0.44455	1.48009	0.266562	-1.22142
AE003853	1035750	82.712	39.636	38.584	33.438	31.892	2.357243	1.258524	0.270453	-0.2077	0.65314
AE003853	1036250	79.962	41.172	36.726	34.594	35.276	2.08978	1.475517	0.03766	-0.02697	1.313844
AE003853	1036750	67.914	27.708	36.888	37.096	21.156	0.922535	-0.43652	0.056617	0.365582	-1.45354
AE003853	1037250	56.872	25.634	39.98	37.78	21.72	-0.14736	-0.73192	0.440737	0.472031	-1.34512
AE003853	1037750	68.58	39.02	32.958	37.772	21.466	0.984302	1.167012	-0.43564	0.469576	-1.3969
AE003853	1038250	83.098	24.864	27.806	32.73	26.242	2.38789	-0.84325	-1.07896	-0.3251	-0.46358
AE003853	1038750	75.552	33.366	38.168	32.156	24.36	1.656311	0.362469	0.211212	-0.41663	-0.8342
AE003853	1039250	62.814	30.818	36.012	30.186	19.908	0.422294	-0.0002	-0.05872	-0.72785	-1.70814
AE003853	1039750	56.784	24.434	28.634	22.638	25.192	-0.16258	-0.90734	-0.97947	-1.91691	-0.67533
AE003853	1040250	49.388	34.596	40.176	22.954	22.87	-0.87964	0.53399	0.457769	-1.86838	-1.13212
AE003853	1040750	59.564	33.712	39.874	30.24	24.29	0.103763	0.407499	0.418898	-0.72294	-0.85606
AE003853	1041250	48.524	32.242	49.528	32.764	22.954	-0.96594	0.197835	1.620835	-0.32693	-1.11975
AE003853	1041750	42.564	30.712	41.188	31.126	24.236	-1.54404	-0.02035	0.580196	-0.5859	-0.87071
AE003853	1042250	41.864	31.672	32.082	35.34	30.94	-1.61312	0.114892	-0.55591	0.076077	0.440202
AE003853	1042750	52.71	28.222	29.136	33.87	32.83	-0.56487	-0.37581	-0.9243	-0.15646	0.808312
AE003853	1043250	54.068	32.846	37.584	38.794	40.418	-0.4348	0.279484	0.127334	0.617257	2.292353
AE003853	1043750	56.78	37.724	33.132	48.474	32.672	-0.1737	0.970825	-0.42875	2.139445	0.773293
AE003853	1044250	57.622	33.174	29.052	38.578	36.658	-0.09356	0.323999	-0.93847	0.580872	1.551896
AE003853	1044750	51.32	32.772	38.122	32.846	44.022	-0.70475	0.265921	0.190687	-0.32239	2.992067
AE003853	1045250	67.516	32.78	34.858	40.276	36.792	0.861218	0.266037	-0.21734	0.845702	1.574064
AE003853	1045750	61.246	29.092	30.904	23.564	21.33	0.253119	-0.25844	-0.71135	-1.78554	-1.45614
AE003853	1046250	48.806	34.274	25.422	25.796	23.682	-0.95206	0.476049	-1.3958	-1.43547	-0.99755
AE003853	1046750	47.106	26.516	36.13	28.72	20.382	-1.11791	-0.62611	-0.0625	-0.9765	-1.64588
AE003853	1047250	55.782	42.73	38.296	35.642	15.69	-0.27966	1.674215	0.206209	0.111645	-2.56683
AE003853	1047750	68.922	30.228	46.736	37.088	21.22	0.990573	-0.10128	1.256846	0.338012	-1.48584
AE003853	1048250	63.104	34.634	37.17	40.734	29.81	0.426215	0.523066	0.063412	0.910604	0.194441
AE003853	1048750	58.662	30.566	44.524	34.076	30.496	-0.00499	-0.05535	0.978702	-0.13839	0.326753
AE003853	1049250	52.184	28.762	38.574	46.298	32.358	-0.63321	-0.31242	0.235926	1.783843	0.68938
AE003853	1049750	57.446	28.438	33.8	43.26	32.984	-0.12534	-0.35943	-0.36029	1.304544	0.809942
AE003853	1050250	60.428	29.664	31.09	42.318	34.28	0.161889	-0.18643	-0.69926	1.155101	1.06172
AE003853	1050750	53.852	32.03	31.284	38.8	31.2	-0.47582	0.148367	-0.67632	0.600262	0.456477
AE003853	1051250	57.336	35.476	33.656	32.982	29.226	-0.14001	0.636456	-0.38193	-0.31654	0.067839

AE003853	1051750	61.224	32.246	52.688	44.158	32.036	0.234895	0.176985	1.988778	1.441082	0.616128
AE003853	1052250	54.016	23.712	43.37	37.004	29.99	-0.46398	-1.03531	0.826251	0.314029	0.21339
AE003853	1052750	66.086	19.104	31.936	33.704	30.748	0.702716	-1.69037	-0.59999	-0.2065	0.359803
AE003853	1053250	75.186	28.884	38.42	42.942	30.242	1.581995	-0.30326	0.206872	1.246127	0.258667
AE003853	1053750	57.486	41.59	35.39	46.556	25.964	-0.1322	1.49915	-0.17199	1.813682	-0.5812
AE003853	1054250	53.364	40.366	36.926	45.526	25.432	-0.53244	1.324402	0.01821	1.65039	-0.68743
AE003853	1054750	66.682	29.354	33.034	32.592	34.13	0.755026	-0.23961	-0.46808	-0.38629	1.014002
AE003853	1055250	70.088	30.004	30.166	30.506	49.128	1.083289	-0.14837	-0.82675	-0.71577	3.94926
AE003853	1055750	61.002	20.582	38.398	26.306	42.254	0.202682	-1.48671	0.197967	-1.37793	2.600978
AE003853	1056250	36.464	27.052	40.934	29.776	29.87	-2.17324	-0.56941	0.512793	-0.83304	0.173585
AE003853	1056750	49.184	25.666	30.466	35.168	23.592	-0.94365	-0.76715	-0.79306	0.014326	-1.05797
AE003853	1057250	70.688	22.362	19.97	39.678	31.416	1.135987	-1.23712	-2.1024	0.722889	0.472286
AE003853	1057750	58.764	19.704	37.116	33.792	33.048	-0.01926	-1.61541	0.033261	-0.20461	0.789869
AE003853	1058250	36.726	19.728	32.932	29.538	31.23	-2.15325	-1.61302	-0.48942	-0.87528	0.431783
AE003853	1058750	42.262	25.22	29.3	29.942	35.666	-1.61886	-0.83453	-0.94331	-0.8129	1.298518
AE003853	1059250	58.974	28.244	38.814	34.464	27.602	-0.00296	-0.40634	0.241184	-0.10245	-0.28282
AE003853	1059750	72.076	34.626	35.984	31.6	26.75	1.263599	0.498474	-0.11275	-0.55436	-0.45172
AE003853	1060250	74.906	34.252	33.316	30.854	30.322	1.536121	0.44437	-0.44649	-0.67296	0.245804
AE003853	1060750	66.894	30.678	29.126	35.98	28.63	0.759447	-0.06393	-0.96992	0.132547	-0.08761
AE003853	1061250	51.138	26.764	37.94	34.276	26.696	-0.76663	-0.62048	0.127327	-0.13682	-0.46841
AE003853	1061750	60.074	31.85	35.448	31.056	21.98	0.096782	0.100382	-0.18448	-0.64476	-1.39406
AE003853	1062250	56.83	39.62	37.274	23.026	26.126	-0.21849	1.2022	0.041859	-1.90967	-0.58412
AE003853	1062750	49.844	38.956	40.87	32.678	32.216	-0.89587	1.106935	0.488793	-0.39189	0.606546
AE003853	1063250	68.828	36.586	52.42	33.882	29.54	0.939896	0.769528	1.927027	-0.2036	0.080425
AE003853	1063750	71.262	43.21	38.272	33.106	24.824	1.174097	1.708689	0.162541	-0.32692	-0.84522
AE003853	1064250	67.794	32.924	32.446	31.21	19.61	0.837152	0.247721	-0.56478	-0.6265	-1.8684
AE003853	1064750	61.534	27.858	27.878	37.77	27.146	0.230021	-0.47234	-1.13532	0.404679	-0.39454
AE003853	1065250	56.244	27.1	34.442	44.262	23.052	-0.28324	-0.58095	-0.31849	1.425158	-1.19837
AE003853	1065750	44.984	31.998	34.122	40.86	32.8	-1.37423	0.113229	-0.3596	0.888574	0.708692
AE003853	1066250	45.51	34.392	38.372	29.072	33.38	-1.32467	0.452003	0.168841	-0.96775	0.820245
AE003853	1066750	46.71	29.972	34.264	34.976	32.18	-1.20989	-0.17637	-0.34437	-0.03981	0.583192
AE003853	1067250	65.2	28.516	32.83	29.406	38.736	0.578079	-0.38405	-0.52432	-0.91758	1.86512
AE003853	1067750	74.086	21.264	33.212	29.848	30.988	1.436649	-1.41439	-0.47794	-0.84922	0.345668
AE003853	1068250	61.706	20.982	42.328	28.61	27.21	0.237277	-1.45543	0.656943	-1.04524	-0.39628
AE003853	1068750	64.358	24.422	33.574	34.006	18.348	0.492573	-0.96819	-0.43529	-0.19725	-2.1339
AE003853	1069250	62.088	33.74	32.858	41.782	22.282	0.271561	0.353342	-0.52576	1.025302	-1.36548
AE003853	1069750	48.232	37.486	29.506	35.188	29.442	-1.07065	0.884012	-0.94475	-0.01362	0.034739

AE003853	1070250	49.15	25.126	35.364	35.196	33.58	-0.98315	-0.87133	-0.2159	-0.01356	0.843111
AE003853	1070750	75.766	34.652	32.24	33.01	26.43	1.591178	0.479727	-0.60648	-0.35877	-0.55922
AE003853	1071250	77.002	40.314	33.916	39.938	31.554	1.709446	1.282346	-0.39883	0.73032	0.442251
AE003853	1071908	63.649	32.883	35.069	38.526	30.53	0.415492	0.226282	-0.25676	0.506534	0.239025

Supplementary Table 5. Single nucleotide, insertion, and deletion variatoin observed across the genomes of C6, M4, N5, H1, and H2.

seqid	type	start	end	reference	genotype	strain
AE003852	SNV	5414	5414	N	A	H1
AE003852	SNV	5414	5414	N	A	H2
AE003852	SNV	5414	5414	N	A	M4
AE003852	SNV	5414	5414	N	G	N5
AE003852	SNV	5414	5414	N	G	C6
AE003852	SNV	27804	27804	C	T	C6
AE003852	SNV	34254	34254	C	T	C6
AE003852	SNV	42082	42082	A	C	H1
AE003852	SNV	42082	42082	A	C	H2
AE003852	SNV	42082	42082	A	C	M4
AE003852	deletion	57611	57611	T	-	N5
AE003852	SNV	57690	57690	N	C	H1
AE003852	SNV	57690	57690	N	C	H2
AE003852	SNV	57690	57690	N	C	M4
AE003852	SNV	57690	57690	N	C	N5
AE003852	SNV	57690	57690	N	C	C6
AE003852	SNV	57714	57714	N	G	H1
AE003852	SNV	57714	57714	N	G	H2
AE003852	SNV	57714	57714	N	G	M4
AE003852	SNV	57714	57714	N	G	N5
AE003852	SNV	57714	57714	N	G	C6
AE003852	SNV	72585	72585	G	A	H1
AE003852	SNV	72585	72585	G	A	H2
AE003852	SNV	137214	137214	T	C	H1
AE003852	SNV	137214	137214	T	C	H2
AE003852	SNV	139591	139591	T	C	H1
AE003852	SNV	139591	139591	T	C	H2
AE003852	SNV	144569	144569	G	A	H1
AE003852	SNV	144569	144569	G	A	H2
AE003852	SNV	144569	144569	G	A	M4
AE003852	SNV	148860	148860	C	T	H1
AE003852	SNV	148860	148860	C	T	H2
AE003852	SNV	162660	162660	N	C	H1
AE003852	SNV	162660	162660	N	C	H2
AE003852	SNV	162660	162660	N	C	M4
AE003852	SNV	162660	162660	N	C	N5
AE003852	SNV	162660	162660	N	C	C6
AE003852	SNV	167458	167458	N	G	H1
AE003852	SNV	167458	167458	N	G	H2
AE003852	SNV	167458	167458	N	G	M4
AE003852	SNV	167458	167458	N	G	N5
AE003852	SNV	167458	167458	N	G	C6
AE003852	SNV	172531	172531	N	T	H1
AE003852	SNV	172531	172531	N	T	H2
AE003852	SNV	172531	172531	N	T	M4
AE003852	SNV	172531	172531	N	T	N5
AE003852	SNV	172531	172531	N	T	C6

AE003852	SNV	182735	182735	C	T	H1
AE003852	SNV	182735	182735	C	T	H2
AE003852	SNV	182735	182735	C	T	M4
AE003852	SNV	185099	185099	G	T	C6
AE003852	deletion	185959	185959	T	-	C6
AE003852	SNV	200144	200144	A	G	H1
AE003852	SNV	200144	200144	A	G	H2
AE003852	SNV	254869	254869	T	C	C6
AE003852	deletion	263846	263846	A	-	C6
AE003852	SNV	276112	276112	G	A	H1
AE003852	SNV	276112	276112	G	A	H2
AE003852	SNV	280512	280512	G	A	H1
AE003852	SNV	280512	280512	G	A	H2
AE003852	SNV	280512	280512	G	A	M4
AE003852	SNV	281442	281442	C	T	C6
AE003852	SNV	286337	286337	C	T	C6
AE003852	SNV	299186	299186	C	T	H1
AE003852	SNV	299186	299186	C	T	H2
AE003852	SNV	299186	299186	C	T	M4
AE003852	SNV	328674	328674	N	C	H1
AE003852	SNV	328674	328674	N	C	H2
AE003852	SNV	328674	328674	N	C	M4
AE003852	SNV	328674	328674	N	C	N5
AE003852	SNV	328674	328674	N	C	C6
AE003852	SNV	335660	335660	G	C	H1
AE003852	SNV	335660	335660	G	C	M4
AE003852	SNV	335660	335660	G	C	N5
AE003852	SNV	335660	335660	G	C	C6
AE003852	SNV	336613	336613	G	A	H2
AE003852	SNV	336613	336613	G	A	M4
AE003852	SNV	347722	347722	N	T	H1
AE003852	SNV	347722	347722	N	T	H2
AE003852	SNV	347722	347722	N	T	M4
AE003852	SNV	347722	347722	N	T	N5
AE003852	SNV	347722	347722	N	C	C6
AE003852	insertion	359985	359985	C	T	H2
AE003852	insertion	359985	359985	C	T	C6
AE003852	SNV	364549	364549	C	A	C6
AE003852	SNV	364992	364992	N	G	H1
AE003852	SNV	364992	364992	N	G	H2
AE003852	SNV	364992	364992	N	G	M4
AE003852	SNV	364992	364992	N	G	N5
AE003852	SNV	364992	364992	N	G	C6
AE003852	SNV	368119	368119	T	C	H1
AE003852	SNV	368119	368119	T	C	H2
AE003852	SNV	376378	376378	C	T	C6
AE003852	SNV	378632	378632	A	G	C6
AE003852	SNV	406983	406983	C	T	M4
AE003852	SNV	424629	424629	G	T	H1
AE003852	SNV	424629	424629	G	T	M4
AE003852	SNV	424629	424629	G	T	N5

AE003852	SNV	424629	424629	G	T	C6
AE003852	insertion	424644	424644	A	G	H1
AE003852	insertion	424644	424644	A	G	H2
AE003852	insertion	424644	424644	A	G	M4
AE003852	insertion	424644	424644	A	G	N5
AE003852	insertion	424644	424644	A	G	C6
AE003852	SNV	427291	427291	A	G	H1
AE003852	SNV	427291	427291	A	G	H2
AE003852	SNV	427291	427291	A	G	M4
AE003852	SNV	432680	432680	G	A	H1
AE003852	SNV	432680	432680	G	A	H2
AE003852	SNV	432680	432680	G	A	M4
AE003852	SNV	463918	463918	G	A	H2
AE003852	SNV	463918	463918	G	A	M4
AE003852	SNV	466598	466598	T	A	H1
AE003852	SNV	466598	466598	T	A	H2
AE003852	SNV	466598	466598	T	A	M4
AE003852	deletion	467117	467117	A	-	H1
AE003852	deletion	467145	467145	A	-	H1
AE003852	deletion	467159	467159	A	-	H1
AE003852	deletion	467159	467159	A	-	H2
AE003852	deletion	467166	467166	A	-	H2
AE003852	SNV	468202	468202	C	A	M4
AE003852	SNV	522136	522136	C	A	C6
AE003852	deletion	522866	522866	T	-	C6
AE003852	deletion	532470	532470	T	-	M4
AE003852	SNV	537808	537808	C	T	C6
AE003852	SNV	537817	537817	C	A	C6
AE003852	SNV	537826	537826	T	C	C6
AE003852	SNV	537845	537845	T	C	C6
AE003852	SNV	537853	537853	A	G	C6
AE003852	SNV	537859	537859	A	C	C6
AE003852	SNV	537869	537869	A	G	C6
AE003852	SNV	537871	537871	C	A	C6
AE003852	SNV	537893	537893	T	G	C6
AE003852	deletion	537915	537915	A	-	C6
AE003852	SNV	537928	537928	T	C	C6
AE003852	insertion	537952	537952	G	C	C6
AE003852	SNV	537985	537985	T	A	C6
AE003852	SNV	537991	537991	T	C	C6
AE003852	SNV	537994	537994	T	C	C6
AE003852	SNV	538009	538009	C	A	C6
AE003852	SNV	538066	538066	G	C	C6
AE003852	SNV	538099	538099	C	T	C6
AE003852	SNV	538114	538114	C	G	C6
AE003852	insertion	538126	538126	T	G	C6
AE003852	SNV	538216	538216	G	A	C6
AE003852	SNV	538243	538243	A	C	C6
AE003852	SNV	538389	538389	T	C	C6
AE003852	SNV	538395	538395	A	G	C6
AE003852	SNV	538402	538402	C	T	C6

AE003852	SNV	538433	538433	T	C	C6
AE003852	SNV	538453	538453	A	T	C6
AE003852	SNV	538454	538454	G	T	C6
AE003852	SNV	538458	538458	T	C	C6
AE003852	SNV	538486	538486	C	T	C6
AE003852	SNV	538502	538502	G	C	C6
AE003852	SNV	538510	538510	A	G	C6
AE003852	SNV	538522	538522	G	A	C6
AE003852	SNV	538531	538531	T	C	C6
AE003852	SNV	538534	538534	A	G	C6
AE003852	SNV	538552	538552	A	G	C6
AE003852	SNV	538566	538566	T	C	C6
AE003852	SNV	538603	538603	T	C	C6
AE003852	SNV	538612	538612	A	G	C6
AE003852	SNV	538617	538617	T	C	C6
AE003852	SNV	538640	538640	A	G	C6
AE003852	SNV	538645	538645	A	G	C6
AE003852	SNV	538654	538654	A	C	C6
AE003852	SNV	538664	538664	C	T	C6
AE003852	SNV	538702	538702	A	T	C6
AE003852	SNV	538708	538708	C	T	C6
AE003852	SNV	538744	538744	T	C	C6
AE003852	SNV	538792	538792	A	G	C6
AE003852	SNV	538795	538795	C	A	C6
AE003852	SNV	538828	538828	A	G	C6
AE003852	SNV	538837	538837	C	T	C6
AE003852	SNV	538858	538858	C	T	C6
AE003852	SNV	538952	538952	C	T	C6
AE003852	SNV	538963	538963	A	G	C6
AE003852	SNV	538974	538974	G	A	C6
AE003852	SNV	538976	538976	T	C	C6
AE003852	SNV	538981	538981	A	G	C6
AE003852	SNV	538986	538986	A	G	C6
AE003852	deletion	539019	539019	A	-	C6
AE003852	insertion	539020	539020	T	G	C6
AE003852	SNV	539025	539025	C	T	C6
AE003852	SNV	539096	539096	T	A	C6
AE003852	SNV	539106	539106	C	T	C6
AE003852	SNV	539130	539130	G	A	C6
AE003852	SNV	539178	539178	G	T	C6
AE003852	SNV	539190	539190	C	T	C6
AE003852	SNV	539196	539196	T	A	C6
AE003852	SNV	539199	539199	C	T	C6
AE003852	SNV	539217	539217	A	C	C6
AE003852	SNV	539220	539220	A	G	C6
AE003852	SNV	539226	539226	C	T	C6
AE003852	SNV	539277	539277	T	C	C6
AE003852	SNV	539283	539283	G	A	C6
AE003852	SNV	539293	539293	T	C	C6
AE003852	SNV	539307	539307	A	T	C6
AE003852	SNV	539328	539328	C	T	C6

AE003852	SNV	539348	539348	T	C	C6
AE003852	SNV	539355	539355	A	T	C6
AE003852	SNV	539363	539363	G	A	C6
AE003852	SNV	539373	539373	A	T	C6
AE003852	SNV	539382	539382	T	C	C6
AE003852	SNV	539426	539426	A	G	C6
AE003852	SNV	539427	539427	C	T	C6
AE003852	SNV	539436	539436	T	C	C6
AE003852	SNV	539445	539445	A	C	C6
AE003852	SNV	539448	539448	C	T	C6
AE003852	deletion	539453	539453	T	-	C6
AE003852	deletion	539455	539455	T	-	C6
AE003852	SNV	539461	539461	T	C	C6
AE003852	SNV	539462	539462	T	G	C6
AE003852	SNV	539468	539468	G	A	C6
AE003852	SNV	539474	539474	C	A	C6
AE003852	SNV	539484	539484	C	T	C6
AE003852	SNV	539486	539486	A	T	C6
AE003852	SNV	539496	539496	A	G	C6
AE003852	SNV	539517	539517	A	G	C6
AE003852	SNV	539561	539561	G	A	C6
AE003852	SNV	539564	539564	G	A	C6
AE003852	SNV	539570	539570	G	A	C6
AE003852	SNV	539576	539576	C	G	C6
AE003852	SNV	539597	539597	A	G	C6
AE003852	SNV	539617	539617	T	C	C6
AE003852	SNV	539618	539618	A	G	C6
AE003852	SNV	539633	539633	T	A	C6
AE003852	SNV	539639	539639	T	G	C6
AE003852	SNV	539657	539657	T	C	C6
AE003852	SNV	539669	539669	T	A	C6
AE003852	SNV	539672	539672	A	G	C6
AE003852	SNV	539699	539699	T	C	C6
AE003852	SNV	539723	539723	C	T	C6
AE003852	SNV	539740	539740	G	T	C6
AE003852	SNV	539747	539747	A	G	C6
AE003852	SNV	539759	539759	A	G	C6
AE003852	SNV	539771	539771	T	A	C6
AE003852	SNV	539798	539798	T	G	C6
AE003852	SNV	539818	539818	G	A	C6
AE003852	SNV	539840	539840	T	C	C6
AE003852	SNV	539845	539845	A	G	C6
AE003852	SNV	539864	539864	T	C	C6
AE003852	SNV	539888	539888	A	G	C6
AE003852	SNV	539892	539892	G	A	C6
AE003852	SNV	539897	539897	G	A	C6
AE003852	SNV	539903	539903	G	A	C6
AE003852	insertion	539917	539917	G	C	C6
AE003852	deletion	539919	539919	T	-	C6
AE003852	SNV	539924	539924	T	C	C6
AE003852	SNV	539933	539933	A	C	C6

AE003852	SNV	539936	539936	G	C	C6
AE003852	SNV	539984	539984	C	A	C6
AE003852	SNV	540008	540008	G	A	C6
AE003852	SNV	540029	540029	G	A	C6
AE003852	SNV	540031	540031	A	G	C6
AE003852	SNV	544447	544447	C	T	H1
AE003852	SNV	544447	544447	C	T	H2
AE003852	SNV	544447	544447	C	T	M4
AE003852	SNV	549167	549167	A	T	C6
AE003852	insertion	549169	549169	T	G	C6
AE003852	deletion	549176	549176	A	-	C6
AE003852	SNV	549182	549182	A	G	C6
AE003852	SNV	549188	549188	G	A	C6
AE003852	SNV	549210	549210	G	T	C6
AE003852	SNV	549212	549212	T	A	C6
AE003852	SNV	549215	549215	T	A	C6
AE003852	SNV	549217	549217	T	C	C6
AE003852	SNV	549218	549218	T	A	C6
AE003852	SNV	549224	549224	T	C	C6
AE003852	SNV	549227	549227	C	T	C6
AE003852	SNV	549235	549235	T	C	C6
AE003852	SNV	549239	549239	G	A	C6
AE003852	SNV	549242	549242	G	A	C6
AE003852	SNV	549245	549245	A	G	C6
AE003852	SNV	549269	549269	C	T	C6
AE003852	SNV	549272	549272	G	A	C6
AE003852	SNV	549275	549275	A	T	C6
AE003852	SNV	549281	549281	T	C	C6
AE003852	SNV	549290	549290	A	G	C6
AE003852	SNV	549293	549293	C	T	C6
AE003852	SNV	549296	549296	T	C	C6
AE003852	SNV	549302	549302	T	C	C6
AE003852	SNV	549308	549308	T	C	C6
AE003852	SNV	549314	549314	T	A	C6
AE003852	SNV	549317	549317	T	A	C6
AE003852	SNV	549322	549322	C	A	C6
AE003852	SNV	549323	549323	G	T	C6
AE003852	SNV	549326	549326	T	C	C6
AE003852	SNV	549332	549332	A	G	C6
AE003852	SNV	549339	549339	T	C	C6
AE003852	SNV	549340	549340	T	C	C6
AE003852	SNV	549341	549341	T	A	C6
AE003852	SNV	549356	549356	G	C	C6
AE003852	SNV	549358	549358	G	A	C6
AE003852	SNV	549436	549436	A	G	C6
AE003852	SNV	549461	549461	A	C	C6
AE003852	SNV	549479	549479	A	C	C6
AE003852	SNV	549500	549500	T	G	C6
AE003852	SNV	549554	549554	T	G	C6
AE003852	SNV	549581	549581	A	G	C6
AE003852	SNV	549641	549641	C	T	C6

AE003852	SNV	549653	549653	C	T	C6
AE003852	SNV	549666	549666	C	T	C6
AE003852	SNV	549676	549676	T	C	C6
AE003852	SNV	549693	549693	T	A	C6
AE003852	SNV	549719	549719	C	T	C6
AE003852	SNV	549755	549755	T	C	C6
AE003852	SNV	549758	549758	T	A	C6
AE003852	SNV	549761	549761	G	A	C6
AE003852	SNV	549779	549779	G	A	C6
AE003852	SNV	549836	549836	A	G	C6
AE003852	SNV	549838	549838	A	T	C6
AE003852	SNV	549872	549872	T	C	C6
AE003852	SNV	549905	549905	G	A	C6
AE003852	SNV	549923	549923	T	C	C6
AE003852	SNV	549983	549983	T	A	C6
AE003852	SNV	549989	549989	G	A	C6
AE003852	SNV	550007	550007	T	C	C6
AE003852	SNV	550052	550052	T	C	C6
AE003852	SNV	550103	550103	C	A	C6
AE003852	insertion	553568	553568	A	C	H1
AE003852	insertion	553568	553568	A	C	H2
AE003852	insertion	553568	553568	A	C	M4
AE003852	insertion	553568	553568	A	C	N5
AE003852	insertion	553568	553568	A	C	C6
AE003852	SNV	558832	558832	G	A	C6
AE003852	SNV	575609	575609	A	G	H1
AE003852	SNV	575609	575609	A	G	H2
AE003852	SNV	575609	575609	A	G	M4
AE003852	SNV	575609	575609	A	G	C6
AE003852	SNV	581125	581125	T	G	H1
AE003852	SNV	581125	581125	T	G	H2
AE003852	SNV	581125	581125	T	G	M4
AE003852	SNV	581125	581125	T	G	N5
AE003852	SNV	581125	581125	T	G	C6
AE003852	insertion	612958	612958	G	A	H1
AE003852	insertion	612958	612958	G	A	H2
AE003852	insertion	612958	612958	G	A	M4
AE003852	insertion	612958	612958	G	A	C6
AE003852	insertion	623227	623227	A	G	H1
AE003852	insertion	623227	623227	A	G	H2
AE003852	insertion	623227	623227	A	G	M4
AE003852	insertion	638167	638167	G	T	H2
AE003852	insertion	638167	638167	G	T	M4
AE003852	insertion	638167	638167	G	T	C6
AE003852	deletion	648631	648631	A	-	M4
AE003852	SNV	656619	656619	G	A	C6
AE003852	SNV	663766	663766	T	A	H1
AE003852	SNV	663766	663766	T	A	H2
AE003852	SNV	663766	663766	T	A	M4
AE003852	SNV	663766	663766	T	A	N5
AE003852	SNV	663766	663766	T	A	C6

AE003852	SNV	667450	667450	A	G	M4
AE003852	SNV	681574	681574	G	T	M4
AE003852	SNV	692960	692960	C	T	M4
AE003852	SNV	697746	697746	A	G	H1
AE003852	SNV	697746	697746	A	G	H2
AE003852	SNV	697746	697746	A	G	M4
AE003852	SNV	697746	697746	A	G	C6
AE003852	SNV	708714	708714	G	A	H1
AE003852	SNV	708714	708714	G	A	H2
AE003852	SNV	708714	708714	G	A	M4
AE003852	SNV	710240	710240	G	T	H1
AE003852	SNV	710240	710240	G	T	H2
AE003852	SNV	710240	710240	G	T	M4
AE003852	SNV	716073	716073	T	C	H1
AE003852	SNV	716073	716073	T	C	H2
AE003852	SNV	716073	716073	T	C	M4
AE003852	SNV	718316	718316	N	A	H1
AE003852	SNV	718316	718316	N	A	H2
AE003852	SNV	718316	718316	N	A	M4
AE003852	SNV	718316	718316	N	A	N5
AE003852	SNV	718316	718316	N	A	C6
AE003852	SNV	720767	720767	C	T	C6
AE003852	SNV	743403	743403	A	G	C6
AE003852	SNV	743695	743695	C	A	C6
AE003852	SNV	744709	744709	G	A	H1
AE003852	SNV	744709	744709	G	A	H2
AE003852	SNV	749095	749095	C	T	H1
AE003852	SNV	749095	749095	C	T	H2
AE003852	SNV	749095	749095	C	T	M4
AE003852	SNV	750720	750720	T	A	C6
AE003852	SNV	756127	756127	A	G	H1
AE003852	SNV	764702	764702	N	G	H1
AE003852	SNV	764702	764702	N	G	H2
AE003852	SNV	764702	764702	N	G	M4
AE003852	SNV	764702	764702	N	G	N5
AE003852	SNV	764702	764702	N	G	C6
AE003852	SNV	764715	764715	N	A	H1
AE003852	SNV	764715	764715	N	G	H2
AE003852	SNV	764715	764715	N	G	M4
AE003852	SNV	764715	764715	N	G	N5
AE003852	SNV	764715	764715	N	G	C6
AE003852	SNV	769055	769055	C	T	H1
AE003852	SNV	769055	769055	C	T	H2
AE003852	SNV	769055	769055	C	T	M4
AE003852	deletion	775458	775458	T	-	C6
AE003852	SNV	775749	775749	C	A	H1
AE003852	SNV	775749	775749	C	A	H2
AE003852	SNV	775749	775749	C	A	M4
AE003852	SNV	795537	795537	G	T	H1
AE003852	SNV	795537	795537	G	T	H2
AE003852	SNV	795537	795537	G	T	M4

AE003852	SNV	798976	798976	T	C	M4
AE003852	SNV	799723	799723	C	T	H1
AE003852	SNV	799723	799723	C	T	H2
AE003852	insertion	807831	807831	A	G	H1
AE003852	insertion	807831	807831	A	G	H2
AE003852	insertion	807831	807831	A	G	M4
AE003852	insertion	807831	807831	A	G	N5
AE003852	SNV	818025	818025	G	A	H1
AE003852	SNV	818025	818025	G	A	H2
AE003852	SNV	818025	818025	G	A	M4
AE003852	SNV	842878	842878	A	G	M4
AE003852	insertion	849964	849964	A	G	H2
AE003852	insertion	849964	849964	A	G	N5
AE003852	SNV	854836	854836	N	G	H1
AE003852	SNV	854836	854836	N	G	H2
AE003852	SNV	854836	854836	N	G	M4
AE003852	SNV	854836	854836	N	G	N5
AE003852	SNV	854836	854836	N	G	C6
AE003852	SNV	858661	858661	T	A	H1
AE003852	SNV	858661	858661	T	A	H2
AE003852	SNV	858661	858661	T	A	M4
AE003852	deletion	876930	876930	A	-	M4
AE003852	insertion	881243	881243	C	T	H1
AE003852	insertion	881243	881243	C	T	H2
AE003852	insertion	881243	881243	C	T	M4
AE003852	insertion	881243	881243	C	T	C6
AE003852	SNV	890320	890320	C	T	H1
AE003852	SNV	890320	890320	C	T	H2
AE003852	SNV	890320	890320	C	T	M4
AE003852	SNV	890714	890714	A	G	H1
AE003852	SNV	890714	890714	A	G	H2
AE003852	SNV	890714	890714	A	G	M4
AE003852	SNV	891137	891137	C	T	M4
AE003852	SNV	896575	896575	N	G	H1
AE003852	SNV	896575	896575	N	G	H2
AE003852	SNV	896575	896575	N	G	M4
AE003852	SNV	896575	896575	N	G	N5
AE003852	SNV	896575	896575	N	G	C6
AE003852	SNV	899514	899514	N	G	H1
AE003852	SNV	899514	899514	N	G	H2
AE003852	SNV	899514	899514	N	G	C6
AE003852	SNV	899558	899558	A	G	C6
AE003852	SNV	899710	899710	T	C	C6
AE003852	SNV	913177	913177	N	G	H1
AE003852	SNV	913177	913177	N	G	H2
AE003852	SNV	913177	913177	N	G	M4
AE003852	SNV	913177	913177	N	G	N5
AE003852	SNV	913177	913177	N	G	C6
AE003852	SNV	925762	925762	C	T	H1
AE003852	SNV	925762	925762	C	T	H2
AE003852	SNV	925762	925762	C	T	M4

AE003852	SNV	976010	976010	G	A	M4
AE003852	SNV	991447	991447	A	G	M4
AE003852	SNV	994229	994229	G	A	M4
AE003852	insertion	998434	998434	A	C	H1
AE003852	insertion	998434	998434	A	C	H2
AE003852	insertion	998434	998434	A	C	M4
AE003852	insertion	998434	998434	A	C	N5
AE003852	insertion	998434	998434	A	C	C6
AE003852	SNV	1011632	1011632	N	A	H1
AE003852	SNV	1011632	1011632	N	A	H2
AE003852	SNV	1011632	1011632	N	A	M4
AE003852	SNV	1011632	1011632	N	A	N5
AE003852	SNV	1024403	1024403	N	T	H1
AE003852	SNV	1024403	1024403	N	T	H2
AE003852	SNV	1024403	1024403	N	T	M4
AE003852	SNV	1024403	1024403	N	C	N5
AE003852	SNV	1024403	1024403	N	C	C6
AE003852	SNV	1047301	1047301	C	A	C6
AE003852	SNV	1051996	1051996	N	A	H1
AE003852	SNV	1051996	1051996	N	A	H2
AE003852	SNV	1051996	1051996	N	A	M4
AE003852	SNV	1051996	1051996	N	A	N5
AE003852	SNV	1060408	1060408	C	T	H1
AE003852	SNV	1060408	1060408	C	T	H2
AE003852	insertion	1087961	1087961	C	G	H1
AE003852	insertion	1087961	1087961	C	G	H2
AE003852	insertion	1087961	1087961	C	G	M4
AE003852	insertion	1087961	1087961	C	G	N5
AE003852	insertion	1087961	1087961	C	G	C6
AE003852	SNV	1091204	1091204	G	A	C6
AE003852	SNV	1111283	1111283	G	T	H1
AE003852	SNV	1111283	1111283	G	T	H2
AE003852	SNV	1111283	1111283	G	T	M4
AE003852	deletion	1112668	1112668	A	-	C6
AE003852	deletion	1112675	1112675	A	-	C6
AE003852	deletion	1112677	1112677	A	-	C6
AE003852	deletion	1112678	1112678	A	-	C6
AE003852	SNV	1116881	1116881	A	G	C6
AE003852	SNV	1118265	1118265	G	A	M4
AE003852	SNV	1121766	1121766	T	C	H1
AE003852	SNV	1121766	1121766	T	C	H2
AE003852	SNV	1121766	1121766	T	C	M4
AE003852	insertion	1145406	1145406	C	G	H1
AE003852	insertion	1145406	1145406	C	G	H2
AE003852	insertion	1145406	1145406	C	G	M4
AE003852	insertion	1145406	1145406	C	G	C6
AE003852	SNV	1149895	1149895	N	T	H1
AE003852	SNV	1149895	1149895	N	T	H2
AE003852	SNV	1149895	1149895	N	T	M4
AE003852	SNV	1149895	1149895	N	C	N5
AE003852	SNV	1149895	1149895	N	C	C6

AE003852	SNV	1155677	1155677	N	T	H1
AE003852	SNV	1155677	1155677	N	T	H2
AE003852	SNV	1159714	1159714	N	T	H1
AE003852	SNV	1159714	1159714	N	T	H2
AE003852	SNV	1159714	1159714	N	T	M4
AE003852	SNV	1159714	1159714	N	T	N5
AE003852	SNV	1159714	1159714	N	T	C6
AE003852	SNV	1174922	1174922	T	C	M4
AE003852	SNV	1183050	1183050	A	G	H2
AE003852	SNV	1183050	1183050	A	G	M4
AE003852	SNV	1198262	1198262	C	T	H1
AE003852	SNV	1198262	1198262	C	T	H2
AE003852	SNV	1198262	1198262	C	T	M4
AE003852	SNV	1216025	1216025	G	T	C6
AE003852	insertion	1228190	1228190	G	C	H1
AE003852	insertion	1228190	1228190	G	C	H2
AE003852	insertion	1228190	1228190	G	C	M4
AE003852	insertion	1228190	1228190	G	C	N5
AE003852	insertion	1228190	1228190	G	C	C6
AE003852	insertion	1237258	1237258	T	G	H1
AE003852	insertion	1237258	1237258	T	G	H2
AE003852	insertion	1237258	1237258	T	G	M4
AE003852	insertion	1237258	1237258	T	G	N5
AE003852	insertion	1237258	1237258	T	G	C6
AE003852	SNV	1320275	1320275	N	T	H1
AE003852	SNV	1320275	1320275	N	T	H2
AE003852	SNV	1320275	1320275	N	T	M4
AE003852	SNV	1320275	1320275	N	T	N5
AE003852	SNV	1320275	1320275	N	T	C6
AE003852	SNV	1330454	1330454	G	T	H1
AE003852	SNV	1330454	1330454	G	T	M4
AE003852	SNV	1335598	1335598	A	G	H1
AE003852	SNV	1335598	1335598	A	G	H2
AE003852	SNV	1335598	1335598	A	G	M4
AE003852	SNV	1335598	1335598	A	G	N5
AE003852	SNV	1335598	1335598	A	G	C6
AE003852	SNV	1344013	1344013	C	T	M4
AE003852	SNV	1353521	1353521	G	A	N5
AE003852	SNV	1359179	1359179	G	A	H1
AE003852	SNV	1359179	1359179	G	A	H2
AE003852	SNV	1368678	1368678	G	A	H1
AE003852	SNV	1368678	1368678	G	A	M4
AE003852	insertion	1389483	1389483	G	C	H2
AE003852	SNV	1401870	1401870	N	T	H1
AE003852	SNV	1401870	1401870	N	T	H2
AE003852	SNV	1401870	1401870	N	T	M4
AE003852	SNV	1401870	1401870	N	A	N5
AE003852	SNV	1401870	1401870	N	A	C6
AE003852	SNV	1418186	1418186	A	G	H1
AE003852	SNV	1418186	1418186	A	G	H2
AE003852	SNV	1418186	1418186	A	G	M4

AE003852	SNV	1418798	1418798	G	T	H1
AE003852	SNV	1418798	1418798	G	T	H2
AE003852	SNV	1441233	1441233	G	A	H1
AE003852	SNV	1441233	1441233	G	A	H2
AE003852	SNV	1452755	1452755	T	C	M4
AE003852	SNV	1469427	1469427	A	T	H1
AE003852	SNV	1469427	1469427	A	T	H2
AE003852	insertion	1470951	1470951	A	G	H1
AE003852	insertion	1470951	1470951	A	G	H2
AE003852	insertion	1470951	1470951	A	G	M4
AE003852	insertion	1470951	1470951	A	G	N5
AE003852	insertion	1470951	1470951	A	G	C6
AE003852	insertion	1486533	1486533	G	C	H1
AE003852	insertion	1486533	1486533	G	C	H2
AE003852	insertion	1486533	1486533	G	C	M4
AE003852	insertion	1486533	1486533	G	C	N5
AE003852	insertion	1497845	1497845	C	A	H2
AE003852	insertion	1530607	1530607	T	C	H1
AE003852	insertion	1530607	1530607	T	C	M4
AE003852	insertion	1530607	1530607	T	C	N5
AE003852	SNV	1548631	1548631	A	G	H1
AE003852	SNV	1548631	1548631	A	G	M4
AE003852	SNV	1561424	1561424	N	G	H1
AE003852	SNV	1561424	1561424	N	G	M4
AE003852	SNV	1561926	1561926	N	C	H1
AE003852	SNV	1561926	1561926	N	C	H2
AE003852	SNV	1561926	1561926	N	C	M4
AE003852	SNV	1561926	1561926	N	C	C6
AE003852	SNV	1561942	1561942	N	G	H1
AE003852	SNV	1561942	1561942	N	G	H2
AE003852	SNV	1561942	1561942	N	G	M4
AE003852	SNV	1561949	1561949	N	A	H1
AE003852	SNV	1561949	1561949	N	A	H2
AE003852	SNV	1561949	1561949	N	A	M4
AE003852	SNV	1563748	1563748	G	A	H2
AE003852	SNV	1567139	1567139	A	G	H1
AE003852	SNV	1567139	1567139	A	G	H2
AE003852	SNV	1567139	1567139	A	G	M4
AE003852	SNV	1567227	1567227	A	G	H1
AE003852	SNV	1567227	1567227	A	G	H2
AE003852	SNV	1567227	1567227	A	G	M4
AE003852	SNV	1567284	1567284	G	T	H1
AE003852	SNV	1567284	1567284	G	T	H2
AE003852	SNV	1571569	1571569	T	C	H1
AE003852	SNV	1571653	1571653	C	T	H1
AE003852	SNV	1571665	1571665	A	G	H1
AE003852	SNV	1571671	1571671	T	A	H1
AE003852	SNV	1574744	1574744	G	T	H1
AE003852	deletion	1576511	1576511	T	-	H1
AE003852	deletion	1576512	1576512	T	-	H1
AE003852	SNV	1579595	1579595	G	T	H1

AE003852	SNV	1579595	1579595	G	T	H2
AE003852	SNV	1584755	1584755	T	C	M4
AE003852	SNV	1587146	1587146	N	G	H1
AE003852	SNV	1587146	1587146	N	G	H2
AE003852	SNV	1587146	1587146	N	G	M4
AE003852	SNV	1587146	1587146	N	T	N5
AE003852	SNV	1587147	1587147	N	T	H1
AE003852	SNV	1587147	1587147	N	T	H2
AE003852	SNV	1587147	1587147	N	T	M4
AE003852	SNV	1587147	1587147	N	T	N5
AE003852	SNV	1587148	1587148	N	C	H1
AE003852	SNV	1587148	1587148	N	C	H2
AE003852	SNV	1587148	1587148	N	C	M4
AE003852	SNV	1587148	1587148	N	C	N5
AE003852	SNV	1587149	1587149	N	T	H1
AE003852	SNV	1587149	1587149	N	T	H2
AE003852	SNV	1587149	1587149	N	T	M4
AE003852	SNV	1587149	1587149	N	T	N5
AE003852	SNV	1587765	1587765	N	T	H1
AE003852	SNV	1587765	1587765	N	T	H2
AE003852	SNV	1587765	1587765	N	T	M4
AE003852	SNV	1587765	1587765	N	T	N5
AE003852	SNV	1587765	1587765	N	T	C6
AE003852	insertion	1589320	1589320	G	C	C6
AE003852	SNV	1591816	1591816	A	G	H1
AE003852	SNV	1591816	1591816	A	G	H2
AE003852	SNV	1591816	1591816	A	G	M4
AE003852	deletion	1591816	1591816	A	-	C6
AE003852	insertion	1618600	1618600	G	C	H1
AE003852	insertion	1618600	1618600	G	C	H2
AE003852	insertion	1618600	1618600	G	C	M4
AE003852	insertion	1618600	1618600	G	C	N5
AE003852	SNV	1622584	1622584	G	A	M4
AE003852	insertion	1625932	1625932	A	C	H1
AE003852	insertion	1625932	1625932	A	C	H2
AE003852	insertion	1625932	1625932	A	C	N5
AE003852	SNV	1641056	1641056	G	A	H1
AE003852	SNV	1641056	1641056	G	A	M4
AE003852	SNV	1670764	1670764	N	T	H1
AE003852	SNV	1670764	1670764	N	T	H2
AE003852	SNV	1670764	1670764	N	T	M4
AE003852	SNV	1670764	1670764	N	T	N5
AE003852	insertion	1676701	1676701	G	C	H1
AE003852	insertion	1676701	1676701	G	C	H2
AE003852	insertion	1676701	1676701	G	C	M4
AE003852	insertion	1676703	1676703	G	A	H2
AE003852	insertion	1676703	1676703	G	A	M4
AE003852	SNV	1682925	1682925	C	T	H1
AE003852	SNV	1682925	1682925	C	T	H2
AE003852	SNV	1686986	1686986	A	T	H1
AE003852	SNV	1686986	1686986	A	T	H2

AE003852	SNV	1686986	1686986	A	T	M4
AE003852	SNV	1689316	1689316	N	T	H1
AE003852	SNV	1689316	1689316	N	T	H2
AE003852	SNV	1689316	1689316	N	T	M4
AE003852	SNV	1689316	1689316	N	T	N5
AE003852	SNV	1689316	1689316	N	T	C6
AE003852	SNV	1693044	1693044	G	A	M4
AE003852	SNV	1696639	1696639	N	C	H1
AE003852	SNV	1696639	1696639	N	C	M4
AE003852	SNV	1696639	1696639	N	C	N5
AE003852	SNV	1696639	1696639	N	C	C6
AE003852	SNV	1696645	1696645	N	C	H1
AE003852	SNV	1696645	1696645	N	C	M4
AE003852	SNV	1696645	1696645	N	C	N5
AE003852	SNV	1696645	1696645	N	C	C6
AE003852	deletion	1700368	1700368	T	-	H1
AE003852	deletion	1700368	1700368	T	-	M4
AE003852	SNV	1730230	1730230	T	G	H1
AE003852	SNV	1730230	1730230	T	G	H2
AE003852	SNV	1730230	1730230	T	G	M4
AE003852	SNV	1735241	1735241	N	C	H1
AE003852	SNV	1735241	1735241	N	C	H2
AE003852	SNV	1735241	1735241	N	C	M4
AE003852	SNV	1735241	1735241	N	C	N5
AE003852	SNV	1735241	1735241	N	C	C6
AE003852	deletion	1737441	1737441	T	-	H1
AE003852	SNV	1739750	1739750	C	T	H1
AE003852	SNV	1739750	1739750	C	T	H2
AE003852	insertion	1748764	1748764	G	C	H1
AE003852	insertion	1748764	1748764	G	C	M4
AE003852	insertion	1748764	1748764	G	C	N5
AE003852	insertion	1771829	1771829	T	A	M4
AE003852	insertion	1771829	1771829	T	A	C6
AE003852	SNV	1782501	1782501	G	A	H1
AE003852	SNV	1782501	1782501	G	A	H2
AE003852	SNV	1784596	1784596	G	A	C6
AE003852	SNV	1786022	1786022	C	A	H1
AE003852	SNV	1786022	1786022	C	A	H2
AE003852	SNV	1786022	1786022	C	A	M4
AE003852	SNV	1808852	1808852	G	A	H1
AE003852	SNV	1808852	1808852	G	A	H2
AE003852	SNV	1809120	1809120	A	C	H1
AE003852	SNV	1809120	1809120	A	C	M4
AE003852	SNV	1822858	1822858	C	T	H1
AE003852	SNV	1822858	1822858	C	T	H2
AE003852	SNV	1822858	1822858	C	T	M4
AE003852	SNV	1827199	1827199	G	A	H1
AE003852	SNV	1827199	1827199	G	A	H2
AE003852	SNV	1827199	1827199	G	A	M4
AE003852	insertion	1832841	1832841	G	CTT	H1
AE003852	insertion	1832841	1832841	G	CTT	M4

AE003852	insertion	1832841	1832841	G	CTTA	N5
AE003852	insertion	1832841	1832841	G	CTTA	C6
AE003852	SNV	1838814	1838814	N	G	H1
AE003852	SNV	1838814	1838814	N	G	H2
AE003852	SNV	1838814	1838814	N	G	M4
AE003852	SNV	1838814	1838814	N	G	N5
AE003852	SNV	1882714	1882714	G	A	H1
AE003852	SNV	1882714	1882714	G	A	H2
AE003852	deletion	1900854	1900854	T	-	H2
AE003852	deletion	1900854	1900854	T	-	M4
AE003852	SNV	1905668	1905668	C	A	H1
AE003852	SNV	1905668	1905668	C	A	H2
AE003852	SNV	1921683	1921683	A	G	C6
AE003852	SNV	1958029	1958029	C	T	C6
AE003852	SNV	1961274	1961274	C	T	M4
AE003852	SNV	1981925	1981925	G	A	H1
AE003852	SNV	1981925	1981925	G	A	H2
AE003852	SNV	1989263	1989263	G	A	C6
AE003852	insertion	1990029	1990029	C	T	H1
AE003852	insertion	1990029	1990029	C	T	M4
AE003852	insertion	1990029	1990029	C	T	N5
AE003852	insertion	1990029	1990029	C	T	C6
AE003852	SNV	2005879	2005879	N	G	H1
AE003852	SNV	2005879	2005879	N	G	H2
AE003852	SNV	2005879	2005879	N	G	M4
AE003852	SNV	2005879	2005879	N	T	N5
AE003852	SNV	2017006	2017006	T	C	H1
AE003852	SNV	2017006	2017006	T	C	H2
AE003852	SNV	2017006	2017006	T	C	M4
AE003852	SNV	2021722	2021722	N	A	H1
AE003852	SNV	2021722	2021722	N	A	H2
AE003852	SNV	2021722	2021722	N	A	M4
AE003852	SNV	2021722	2021722	N	C	N5
AE003852	SNV	2021722	2021722	N	C	C6
AE003852	SNV	2034661	2034661	C	T	C6
AE003852	SNV	2044571	2044571	N	T	H1
AE003852	SNV	2044571	2044571	N	T	H2
AE003852	SNV	2044571	2044571	N	T	M4
AE003852	SNV	2044571	2044571	N	T	N5
AE003852	SNV	2044571	2044571	N	C	C6
AE003852	SNV	2059741	2059741	C	T	H1
AE003852	SNV	2059741	2059741	C	T	H2
AE003852	SNV	2076300	2076300	A	G	H1
AE003852	SNV	2076300	2076300	A	G	H2
AE003852	SNV	2076300	2076300	A	G	M4
AE003852	SNV	2076300	2076300	A	G	N5
AE003852	SNV	2076300	2076300	A	G	C6
AE003852	SNV	2078472	2078472	C	T	M4
AE003852	SNV	2098531	2098531	C	A	H1
AE003852	SNV	2107661	2107661	G	A	H1
AE003852	SNV	2107661	2107661	G	A	H2

AE003852	SNV	2107661	2107661	G	A	M4
AE003852	SNV	2118322	2118322	N	A	H1
AE003852	SNV	2118322	2118322	N	A	H2
AE003852	SNV	2118322	2118322	N	A	M4
AE003852	SNV	2118322	2118322	N	A	N5
AE003852	SNV	2118322	2118322	N	G	C6
AE003852	SNV	2118383	2118383	A	T	M4
AE003852	SNV	2122955	2122955	N	G	H1
AE003852	SNV	2122955	2122955	N	G	H2
AE003852	SNV	2122955	2122955	N	G	M4
AE003852	SNV	2122955	2122955	N	G	N5
AE003852	SNV	2122955	2122955	N	G	C6
AE003852	SNV	2122956	2122956	N	C	H1
AE003852	SNV	2122956	2122956	N	C	H2
AE003852	SNV	2122956	2122956	N	C	M4
AE003852	SNV	2122956	2122956	N	C	N5
AE003852	SNV	2122956	2122956	N	C	C6
AE003852	SNV	2153724	2153724	T	A	H1
AE003852	SNV	2153724	2153724	T	A	H2
AE003852	SNV	2153724	2153724	T	A	M4
AE003852	SNV	2153724	2153724	T	A	N5
AE003852	SNV	2179341	2179341	C	G	H1
AE003852	SNV	2179341	2179341	C	G	H2
AE003852	SNV	2179341	2179341	C	G	M4
AE003852	SNV	2179341	2179341	C	G	N5
AE003852	SNV	2179341	2179341	C	G	C6
AE003852	SNV	2184584	2184584	T	C	H1
AE003852	SNV	2184584	2184584	T	C	H2
AE003852	SNV	2184584	2184584	T	C	M4
AE003852	insertion	2194677	2194677	A	G	H1
AE003852	insertion	2194677	2194677	A	G	M4
AE003852	insertion	2194677	2194677	A	G	N5
AE003852	insertion	2194677	2194677	A	G	C6
AE003852	SNV	2195049	2195049	C	A	M4
AE003852	SNV	2195931	2195931	C	A	C6
AE003852	SNV	2203897	2203897	C	T	H1
AE003852	SNV	2203897	2203897	C	T	H2
AE003852	SNV	2204194	2204194	N	T	H1
AE003852	SNV	2204194	2204194	N	T	H2
AE003852	SNV	2204194	2204194	N	T	M4
AE003852	SNV	2204194	2204194	N	T	N5
AE003852	SNV	2204194	2204194	N	T	C6
AE003852	SNV	2226941	2226941	C	T	M4
AE003852	SNV	2234243	2234243	N	T	H1
AE003852	SNV	2234243	2234243	N	T	H2
AE003852	SNV	2234243	2234243	N	T	M4
AE003852	SNV	2234243	2234243	N	C	N5
AE003852	SNV	2234243	2234243	N	C	C6
AE003852	SNV	2239335	2239335	N	T	H1
AE003852	SNV	2239335	2239335	N	T	H2
AE003852	SNV	2239335	2239335	N	T	M4

AE003852	SNV	2239335	2239335	N	T	N5
AE003852	SNV	2239335	2239335	N	T	C6
AE003852	SNV	2241989	2241989	A	G	M4
AE003852	SNV	2252613	2252613	N	T	H1
AE003852	SNV	2252613	2252613	N	T	H2
AE003852	SNV	2252613	2252613	N	T	M4
AE003852	SNV	2252613	2252613	N	T	N5
AE003852	SNV	2252613	2252613	N	T	C6
AE003852	deletion	2262543	2262543	T	-	H1
AE003852	deletion	2262543	2262543	T	-	H2
AE003852	deletion	2262543	2262543	T	-	M4
AE003852	deletion	2262543	2262543	T	-	N5
AE003852	deletion	2262543	2262543	T	-	C6
AE003852	insertion	2266654	2266654	A	C	H1
AE003852	insertion	2266654	2266654	A	C	M4
AE003852	insertion	2266654	2266654	A	C	N5
AE003852	insertion	2266654	2266654	A	C	C6
AE003852	SNV	2295483	2295483	T	C	H1
AE003852	SNV	2295483	2295483	T	C	H2
AE003852	deletion	2295483	2295483	T	-	M4
AE003852	SNV	2317938	2317938	C	T	M4
AE003852	SNV	2338421	2338421	G	A	C6
AE003852	SNV	2352426	2352426	G	A	C6
AE003852	insertion	2358193	2358193	A	C	H1
AE003852	insertion	2358193	2358193	A	C	H2
AE003852	insertion	2358193	2358193	A	C	M4
AE003852	insertion	2358193	2358193	A	C	N5
AE003852	insertion	2358193	2358193	A	C	C6
AE003852	SNV	2364863	2364863	A	G	H1
AE003852	SNV	2364863	2364863	A	G	H2
AE003852	SNV	2364863	2364863	A	G	M4
AE003852	SNV	2378839	2378839	N	G	H1
AE003852	SNV	2378839	2378839	N	G	H2
AE003852	SNV	2378839	2378839	N	G	M4
AE003852	SNV	2378839	2378839	N	G	N5
AE003852	SNV	2379972	2379972	A	G	H1
AE003852	SNV	2379972	2379972	A	G	H2
AE003852	SNV	2379972	2379972	A	G	M4
AE003852	SNV	2379972	2379972	A	G	N5
AE003852	SNV	2379972	2379972	A	G	C6
AE003852	SNV	2424759	2424759	C	T	H1
AE003852	SNV	2424759	2424759	C	T	H2
AE003852	SNV	2437071	2437071	G	A	C6
AE003852	SNV	2437197	2437197	C	T	C6
AE003852	SNV	2441024	2441024	C	A	H1
AE003852	SNV	2441024	2441024	C	A	H2
AE003852	SNV	2441024	2441024	C	A	M4
AE003852	SNV	2466598	2466598	T	C	H1
AE003852	SNV	2466598	2466598	T	C	H2
AE003852	SNV	2468430	2468430	T	A	M4
AE003852	SNV	2483236	2483236	G	A	H1

AE003852	SNV	2483236	2483236	G	A	H2
AE003852	insertion	2489045	2489045	A	G	H1
AE003852	insertion	2489045	2489045	A	G	H2
AE003852	insertion	2489045	2489045	A	G	M4
AE003852	insertion	2489045	2489045	A	G	N5
AE003852	SNV	2496376	2496376	T	C	H1
AE003852	SNV	2496376	2496376	T	C	H2
AE003852	SNV	2496376	2496376	T	C	M4
AE003852	SNV	2496376	2496376	T	C	N5
AE003852	SNV	2496376	2496376	T	C	C6
AE003852	SNV	2515567	2515567	T	C	C6
AE003852	SNV	2518790	2518790	N	G	H1
AE003852	SNV	2518790	2518790	N	G	H2
AE003852	SNV	2518790	2518790	N	G	M4
AE003852	SNV	2518790	2518790	N	A	N5
AE003852	SNV	2518790	2518790	N	A	C6
AE003852	SNV	2547714	2547714	C	T	H1
AE003852	SNV	2547714	2547714	C	T	H2
AE003852	SNV	2547714	2547714	C	T	M4
AE003852	insertion	2564031	2564031	G	C	H1
AE003852	insertion	2564031	2564031	G	C	H2
AE003852	insertion	2564031	2564031	G	C	M4
AE003852	insertion	2564031	2564031	G	C	N5
AE003852	insertion	2564031	2564031	G	C	C6
AE003852	SNV	2577786	2577786	C	T	H1
AE003852	SNV	2577786	2577786	C	T	H2
AE003852	SNV	2590300	2590300	N	A	H1
AE003852	SNV	2590300	2590300	N	A	H2
AE003852	SNV	2590300	2590300	N	A	M4
AE003852	SNV	2590300	2590300	N	A	N5
AE003852	SNV	2590300	2590300	N	A	C6
AE003852	SNV	2605341	2605341	G	A	H1
AE003852	SNV	2605341	2605341	G	A	H2
AE003852	SNV	2605341	2605341	G	A	M4
AE003852	SNV	2609364	2609364	C	A	M4
AE003852	SNV	2609994	2609994	G	A	M4
AE003852	insertion	2612863	2612863	G	C	C6
AE003852	SNV	2653232	2653232	A	G	C6
AE003852	SNV	2657142	2657142	G	A	H1
AE003852	SNV	2657142	2657142	G	A	H2
AE003852	SNV	2657142	2657142	G	A	M4
AE003852	insertion	2657594	2657594	G	C	H1
AE003852	insertion	2657594	2657594	G	C	H2
AE003852	insertion	2657594	2657594	G	C	M4
AE003852	insertion	2657594	2657594	G	C	N5
AE003852	insertion	2657594	2657594	G	C	C6
AE003852	SNV	2669927	2669927	G	T	H2
AE003852	SNV	2679481	2679481	T	C	H1
AE003852	SNV	2679481	2679481	T	C	H2
AE003852	deletion	2679481	2679481	T	-	M4
AE003852	SNV	2679877	2679877	T	A	H1

AE003852	SNV	2679877	2679877	T	A	H2
AE003852	SNV	2679877	2679877	T	A	M4
AE003852	SNV	2681238	2681238	N	A	H1
AE003852	SNV	2681238	2681238	N	A	H2
AE003852	SNV	2681238	2681238	N	A	M4
AE003852	SNV	2681238	2681238	N	A	N5
AE003852	SNV	2681238	2681238	N	A	C6
AE003852	SNV	2681451	2681451	G	A	H1
AE003852	SNV	2681451	2681451	G	A	H2
AE003852	SNV	2682957	2682957	N	G	H1
AE003852	SNV	2682957	2682957	N	G	H2
AE003852	SNV	2682957	2682957	N	G	M4
AE003852	SNV	2682957	2682957	N	G	N5
AE003852	SNV	2682957	2682957	N	G	C6
AE003852	SNV	2682978	2682978	N	G	H1
AE003852	SNV	2682978	2682978	N	G	H2
AE003852	SNV	2682978	2682978	N	G	M4
AE003852	SNV	2682978	2682978	N	G	N5
AE003852	SNV	2682978	2682978	N	G	C6
AE003852	SNV	2683660	2683660	G	T	C6
AE003852	SNV	2690493	2690493	G	A	H1
AE003852	SNV	2690493	2690493	G	A	H2
AE003852	SNV	2720712	2720712	G	A	H1
AE003852	SNV	2720712	2720712	G	A	H2
AE003852	SNV	2720712	2720712	G	A	M4
AE003852	SNV	2731709	2731709	G	A	M4
AE003852	SNV	2737850	2737850	C	T	H1
AE003852	SNV	2737850	2737850	C	T	H2
AE003852	SNV	2737850	2737850	C	T	M4
AE003852	insertion	2738433	2738433	G	C	H1
AE003852	insertion	2738433	2738433	G	C	H2
AE003852	insertion	2738433	2738433	G	C	M4
AE003852	insertion	2738433	2738433	G	C	N5
AE003852	insertion	2738433	2738433	G	C	C6
AE003852	SNV	2744528	2744528	N	T	H1
AE003852	SNV	2744528	2744528	N	T	H2
AE003852	SNV	2744528	2744528	N	T	M4
AE003852	SNV	2744528	2744528	N	C	N5
AE003852	SNV	2744528	2744528	N	C	C6
AE003852	SNV	2766100	2766100	N	C	H1
AE003852	SNV	2766100	2766100	N	C	H2
AE003852	SNV	2766100	2766100	N	C	M4
AE003852	SNV	2766100	2766100	N	C	N5
AE003852	SNV	2766100	2766100	N	C	C6
AE003852	SNV	2787068	2787068	G	A	C6
AE003852	SNV	2787401	2787401	T	G	H1
AE003852	SNV	2787401	2787401	T	G	M4
AE003852	SNV	2799894	2799894	A	T	M4
AE003852	SNV	2839012	2839012	A	G	C6
AE003852	SNV	2839114	2839114	A	T	H1
AE003852	SNV	2839114	2839114	A	T	H2

AE003852	SNV	2839114	2839114	A	T	M4
AE003852	insertion	2839612	2839612	G	C	H1
AE003852	insertion	2839612	2839612	G	C	H2
AE003852	insertion	2839612	2839612	G	C	M4
AE003852	insertion	2839612	2839612	G	C	N5
AE003852	insertion	2839612	2839612	G	C	C6
AE003852	SNV	2842329	2842329	N	A	H1
AE003852	SNV	2842329	2842329	N	A	H2
AE003852	SNV	2842329	2842329	N	A	M4
AE003852	SNV	2842329	2842329	N	A	N5
AE003852	SNV	2842329	2842329	N	A	C6
AE003852	SNV	2843816	2843816	G	A	C6
AE003852	SNV	2850092	2850092	C	T	C6
AE003852	SNV	2873743	2873743	C	T	H1
AE003852	SNV	2873743	2873743	C	T	H2
AE003852	SNV	2879749	2879749	A	G	C6
AE003852	deletion	2879855	2879855	T	-	H1
AE003852	deletion	2879855	2879855	T	-	H2
AE003852	deletion	2879855	2879855	T	-	M4
AE003852	deletion	2879855	2879855	T	-	N5
AE003852	deletion	2879855	2879855	T	-	C6
AE003852	SNV	2881400	2881400	C	A	H2
AE003852	SNV	2881400	2881400	C	A	M4
AE003852	SNV	2881400	2881400	C	A	N5
AE003852	SNV	2881400	2881400	C	A	C6
AE003852	SNV	2897883	2897883	G	A	H1
AE003852	SNV	2897883	2897883	G	A	H2
AE003852	SNV	2897883	2897883	G	A	M4
AE003852	SNV	2906742	2906742	C	T	H1
AE003852	SNV	2906742	2906742	C	T	H2
AE003852	insertion	2907036	2907036	A	G	H1
AE003852	insertion	2907036	2907036	A	G	H2
AE003852	SNV	2928036	2928036	N	T	H1
AE003852	SNV	2928036	2928036	N	T	H2
AE003852	SNV	2928036	2928036	N	T	M4
AE003852	SNV	2928036	2928036	N	T	N5
AE003852	SNV	2928036	2928036	N	T	C6
AE003852	SNV	2928147	2928147	N	T	H1
AE003852	SNV	2928147	2928147	N	T	H2
AE003852	SNV	2928147	2928147	N	T	M4
AE003852	SNV	2928147	2928147	N	T	N5
AE003852	SNV	2932824	2932824	A	G	H2
AE003853	SNV	25055	25055	C	T	C6
AE003853	SNV	30692	30692	C	T	H1
AE003853	SNV	30692	30692	C	T	M4
AE003853	SNV	42229	42229	C	A	H1
AE003853	SNV	42229	42229	C	A	H2
AE003853	SNV	42363	42363	C	T	C6
AE003853	deletion	53608	53608	T	-	H1
AE003853	deletion	53608	53608	T	-	M4
AE003853	deletion	53608	53608	T	-	N5

AE003853	deletion	53608	53608	T	-	C6
AE003853	insertion	57464	57464	A	G	H1
AE003853	insertion	57464	57464	A	G	H2
AE003853	insertion	57464	57464	A	G	M4
AE003853	insertion	57464	57464	A	G	N5
AE003853	insertion	57464	57464	A	G	C6
AE003853	SNV	62965	62965	C	T	H1
AE003853	SNV	62965	62965	C	T	H2
AE003853	SNV	62965	62965	C	T	M4
AE003853	SNV	71493	71493	G	A	C6
AE003853	SNV	85485	85485	T	G	H1
AE003853	SNV	85485	85485	T	G	H2
AE003853	SNV	85485	85485	T	G	M4
AE003853	SNV	85485	85485	T	G	C6
AE003853	SNV	111100	111100	G	T	C6
AE003853	SNV	143762	143762	G	A	H1
AE003853	SNV	143762	143762	G	A	H2
AE003853	SNV	143762	143762	G	A	M4
AE003853	deletion	144626	144626	A	-	M4
AE003853	SNV	152561	152561	C	A	H2
AE003853	SNV	152561	152561	C	A	M4
AE003853	SNV	152561	152561	C	A	N5
AE003853	SNV	152561	152561	C	A	C6
AE003853	deletion	161094	161094	T	-	M4
AE003853	SNV	161478	161478	C	G	H1
AE003853	SNV	161478	161478	C	G	H2
AE003853	SNV	161478	161478	C	G	M4
AE003853	SNV	161478	161478	C	G	N5
AE003853	SNV	161478	161478	C	G	C6
AE003853	SNV	166022	166022	C	T	H2
AE003853	insertion	186167	186167	T	G	N5
AE003853	insertion	186167	186167	T	G	C6
AE003853	deletion	187768	187768	T	-	H2
AE003853	deletion	187800	187800	T	-	H2
AE003853	deletion	187840	187840	T	-	H1
AE003853	deletion	187864	187864	T	-	H2
AE003853	deletion	187884	187884	T	-	H2
AE003853	deletion	187888	187888	T	-	M4
AE003853	deletion	187890	187890	T	-	H1
AE003853	SNV	198677	198677	T	C	C6
AE003853	SNV	203369	203369	G	T	H1
AE003853	SNV	203369	203369	G	T	H2
AE003853	SNV	247177	247177	C	T	C6
AE003853	insertion	255373	255373	T	G	H1
AE003853	insertion	255373	255373	T	G	H2
AE003853	insertion	255373	255373	T	G	M4
AE003853	insertion	255373	255373	T	G	N5
AE003853	SNV	260894	260894	A	G	C6
AE003853	deletion	266019	266019	A	-	M4
AE003853	SNV	266714	266714	G	A	C6
AE003853	SNV	267894	267894	N	T	H1

AE003853	SNV	267894	267894	N	T	H2
AE003853	SNV	267894	267894	N	T	M4
AE003853	SNV	267894	267894	N	T	N5
AE003853	SNV	267894	267894	N	T	C6
AE003853	SNV	270403	270403	T	G	C6
AE003853	SNV	277301	277301	A	G	H1
AE003853	SNV	277301	277301	A	G	H2
AE003853	SNV	277301	277301	A	G	N5
AE003853	SNV	277301	277301	A	G	C6
AE003853	insertion	279449	279449	G	C	H1
AE003853	insertion	279449	279449	G	C	N5
AE003853	SNV	280762	280762	C	T	C6
AE003853	SNV	285843	285843	C	T	C6
AE003853	insertion	294982	294982	A	G	H1
AE003853	insertion	294982	294982	A	G	H2
AE003853	insertion	294982	294982	A	G	M4
AE003853	insertion	294982	294982	A	G	N5
AE003853	SNV	326699	326699	G	A	C6
AE003853	SNV	343099	343099	C	T	H1
AE003853	SNV	343099	343099	C	T	M4
AE003853	SNV	345470	345470	A	G	H1
AE003853	SNV	345470	345470	A	G	H2
AE003853	SNV	345470	345470	A	G	M4
AE003853	SNV	345470	345470	A	G	C6
AE003853	SNV	356433	356433	N	T	H1
AE003853	SNV	356433	356433	N	T	H2
AE003853	SNV	356433	356433	N	T	M4
AE003853	SNV	356433	356433	N	T	N5
AE003853	SNV	356433	356433	N	T	C6
AE003853	SNV	366180	366180	N	C	H1
AE003853	SNV	366180	366180	N	C	M4
AE003853	SNV	366180	366180	N	C	N5
AE003853	SNV	401468	401468	T	G	M4
AE003853	insertion	403876	403876	T	G	H1
AE003853	insertion	403876	403876	T	G	H2
AE003853	insertion	403876	403876	T	G	M4
AE003853	SNV	413177	413177	N	A	H1
AE003853	SNV	413177	413177	N	A	H2
AE003853	SNV	413177	413177	N	A	M4
AE003853	SNV	413177	413177	N	A	N5
AE003853	insertion	413625	413625	G	T	C6
AE003853	SNV	414464	414464	A	C	H1
AE003853	SNV	422960	422960	C	T	H1
AE003853	SNV	422960	422960	C	T	H2
AE003853	SNV	439412	439412	T	C	H1
AE003853	SNV	439412	439412	T	C	H2
AE003853	deletion	472297	472297	A	-	H1
AE003853	deletion	472297	472297	A	-	H2
AE003853	deletion	472297	472297	A	-	N5
AE003853	insertion	474526	474526	T	C	H1
AE003853	SNV	484946	484946	A	G	C6

AE003853	deletion	494300	494300	A	-	C6
AE003853	SNV	518299	518299	A	G	C6
AE003853	deletion	530511	530511	A	-	H1
AE003853	deletion	530511	530511	A	-	M4
AE003853	deletion	530511	530511	A	-	N5
AE003853	insertion	545435	545435	A	C	H1
AE003853	insertion	545435	545435	A	C	H2
AE003853	insertion	545435	545435	A	C	M4
AE003853	SNV	564621	564621	C	T	M4
AE003853	insertion	566510	566510	T	G	H1
AE003853	insertion	566510	566510	T	G	H2
AE003853	insertion	566510	566510	T	G	N5
AE003853	SNV	572465	572465	G	A	H1
AE003853	SNV	572465	572465	G	A	H2
AE003853	SNV	572465	572465	G	A	M4
AE003853	SNV	577065	577065	C	A	H1
AE003853	SNV	588148	588148	C	G	H1
AE003853	SNV	588148	588148	C	G	H2
AE003853	SNV	588148	588148	C	G	M4
AE003853	SNV	588148	588148	C	G	N5
AE003853	SNV	597154	597154	A	G	M4
AE003853	insertion	603771	603771	G	T	M4
AE003853	insertion	609600	609600	A	G	H1
AE003853	insertion	609600	609600	A	G	N5
AE003853	SNV	620724	620724	G	A	C6
AE003853	insertion	631351	631351	A	G	H1
AE003853	insertion	631351	631351	A	G	H2
AE003853	insertion	631351	631351	A	G	M4
AE003853	insertion	631351	631351	A	G	N5
AE003853	insertion	631351	631351	A	G	C6
AE003853	insertion	631404	631404	A	G	H2
AE003853	insertion	631404	631404	A	G	M4
AE003853	insertion	631404	631404	A	G	N5
AE003853	insertion	631404	631404	A	G	C6
AE003853	SNV	638951	638951	G	A	H1
AE003853	SNV	638951	638951	G	A	H2
AE003853	SNV	638951	638951	G	A	M4
AE003853	SNV	639691	639691	T	C	H1
AE003853	SNV	639691	639691	T	C	H2
AE003853	SNV	639691	639691	T	C	M4
AE003853	SNV	646810	646810	N	T	H1
AE003853	SNV	646810	646810	N	T	H2
AE003853	SNV	646810	646810	N	T	M4
AE003853	SNV	646810	646810	N	T	N5
AE003853	SNV	685842	685842	G	T	H1
AE003853	SNV	685842	685842	G	T	H2
AE003853	insertion	686743	686743	G	C	H1
AE003853	insertion	686743	686743	G	C	M4
AE003853	insertion	686743	686743	G	C	N5
AE003853	deletion	690275	690275	A	-	H1
AE003853	deletion	690275	690275	A	-	M4

AE003853	deletion	690275	690275	A	-	N5
AE003853	SNV	704891	704891	G	A	H1
AE003853	SNV	704891	704891	G	A	H2
AE003853	insertion	728258	728258	A	T	H2
AE003853	deletion	734792	734792	T	-	H1
AE003853	deletion	734792	734792	T	-	H2
AE003853	deletion	734793	734793	T	-	H1
AE003853	deletion	734793	734793	T	-	H2
AE003853	deletion	734794	734794	A	-	H1
AE003853	deletion	734794	734794	A	-	H2
AE003853	deletion	734795	734795	A	-	H1
AE003853	deletion	734795	734795	A	-	H2
AE003853	deletion	734796	734796	A	-	H1
AE003853	deletion	734796	734796	A	-	H2
AE003853	deletion	734799	734799	A	-	H1
AE003853	deletion	734799	734799	A	-	H2
AE003853	deletion	734800	734800	A	-	H1
AE003853	deletion	734800	734800	A	-	H2
AE003853	deletion	734801	734801	A	-	H1
AE003853	deletion	734801	734801	A	-	H2
AE003853	insertion	743255	743255	A	G	H1
AE003853	insertion	743255	743255	A	G	N5
AE003853	insertion	769969	769969	C	T	H1
AE003853	insertion	769969	769969	C	T	H2
AE003853	insertion	769969	769969	C	T	M4
AE003853	insertion	769969	769969	C	T	N5
AE003853	insertion	771745	771745	A	G	H1
AE003853	insertion	771745	771745	A	G	M4
AE003853	insertion	771745	771745	A	G	N5
AE003853	insertion	771745	771745	A	G	C6
AE003853	insertion	775704	775704	A	G	M4
AE003853	SNV	788542	788542	G	T	H1
AE003853	SNV	788542	788542	G	T	H2
AE003853	SNV	804158	804158	C	T	H1
AE003853	SNV	804158	804158	C	T	H2
AE003853	SNV	804158	804158	C	T	M4
AE003853	SNV	811408	811408	T	C	H1
AE003853	SNV	811408	811408	T	C	H2
AE003853	SNV	811408	811408	T	C	M4
AE003853	SNV	811408	811408	T	C	N5
AE003853	SNV	820659	820659	C	T	H1
AE003853	SNV	820659	820659	C	T	H2
AE003853	SNV	828499	828499	C	T	M4
AE003853	insertion	869465	869465	A	C	H1
AE003853	insertion	869465	869465	A	C	H2
AE003853	insertion	869465	869465	A	C	M4
AE003853	SNV	878457	878457	C	T	H1
AE003853	SNV	878457	878457	C	T	H2
AE003853	SNV	878457	878457	C	T	M4
AE003853	insertion	889856	889856	A	G	H1
AE003853	insertion	889856	889856	A	G	M4

AE003853 insertion	889856	889856	A	G	N5
AE003853 insertion	889856	889856	A	G	C6
AE003853 deletion	893324	893324	A	-	H2
AE003853 deletion	893324	893324	A	-	M4
AE003853 deletion	893324	893324	A	-	N5
AE003853 deletion	893324	893324	A	-	C6
AE003853 SNV	894743	894743	G	T	H1
AE003853 SNV	894743	894743	G	T	H2
AE003853 SNV	894743	894743	G	T	M4
AE003853 SNV	894743	894743	G	T	N5
AE003853 SNV	894743	894743	G	T	C6
AE003853 SNV	898089	898089	N	C	H1
AE003853 SNV	898089	898089	N	C	H2
AE003853 SNV	898089	898089	N	C	M4
AE003853 SNV	898089	898089	N	C	N5
AE003853 SNV	898089	898089	N	C	C6
AE003853 SNV	901045	901045	C	T	H1
AE003853 SNV	901045	901045	C	T	H2
AE003853 SNV	901045	901045	C	T	M4
AE003853 SNV	901045	901045	C	T	N5
AE003853 SNV	901045	901045	C	T	C6
AE003853 deletion	918422	918422	A	-	C6
AE003853 SNV	921045	921045	A	C	M4
AE003853 insertion	969851	969851	G	T	H1
AE003853 insertion	969851	969851	G	T	H2
AE003853 insertion	969851	969851	G	T	M4
AE003853 insertion	969851	969851	G	T	N5
AE003853 insertion	969851	969851	G	T	C6
AE003853 insertion	980510	980510	A	G	H1
AE003853 insertion	980510	980510	A	G	H2
AE003853 insertion	980510	980510	A	G	M4
AE003853 insertion	980510	980510	A	G	N5
AE003853 insertion	980510	980510	A	G	C6
AE003853 insertion	980631	980631	A	G	H1
AE003853 insertion	980631	980631	A	G	H2
AE003853 insertion	980631	980631	A	G	M4
AE003853 insertion	980631	980631	A	G	N5
AE003853 insertion	980631	980631	A	G	C6
AE003853 insertion	980885	980885	A	G	H1
AE003853 insertion	980885	980885	A	G	H2
AE003853 insertion	980885	980885	A	G	M4
AE003853 insertion	980885	980885	A	G	N5
AE003853 insertion	980885	980885	A	G	C6
AE003853 deletion	981512	981512	A	-	H1
AE003853 deletion	981512	981512	A	-	H2
AE003853 deletion	981512	981512	A	-	M4
AE003853 deletion	981512	981512	A	-	N5
AE003853 deletion	986611	986611	A	-	H1
AE003853 deletion	986611	986611	A	-	H2
AE003853 deletion	986611	986611	A	-	M4
AE003853 deletion	986611	986611	A	-	N5

AE003853	deletion	986611	986611	A	-	C6
AE003853	deletion	986612	986612	A	-	H1
AE003853	deletion	986612	986612	A	-	H2
AE003853	deletion	986612	986612	A	-	M4
AE003853	deletion	986612	986612	A	-	N5
AE003853	deletion	986612	986612	A	-	C6
AE003853	SNV	989172	989172	C	T	M4
AE003853	SNV	990003	990003	T	C	M4
AE003853	SNV	993684	993684	C	A	H1
AE003853	SNV	993684	993684	C	A	H2
AE003853	SNV	993684	993684	C	A	N5
AE003853	SNV	993684	993684	C	A	C6
AE003853	deletion	993701	993701	T	-	H1
AE003853	deletion	993701	993701	T	-	H2
AE003853	deletion	993701	993701	T	-	M4
AE003853	deletion	993701	993701	T	-	N5
AE003853	deletion	993701	993701	T	-	C6
AE003853	SNV	1004685	1004685	T	G	H2
AE003853	SNV	1004685	1004685	T	G	M4
AE003853	SNV	1004685	1004685	T	G	N5
AE003853	SNV	1004685	1004685	T	G	C6
AE003853	SNV	1024057	1024057	N	T	H1
AE003853	SNV	1024057	1024057	N	T	H2
AE003853	SNV	1024057	1024057	N	T	M4
AE003853	SNV	1024057	1024057	N	T	N5
AE003853	SNV	1024057	1024057	N	T	C6
AE003853	SNV	1024884	1024884	G	A	M4
AE003853	insertion	1036511	1036511	A	G	H1
AE003853	insertion	1036511	1036511	A	G	H2
AE003853	insertion	1036511	1036511	A	G	M4
AE003853	insertion	1036511	1036511	A	G	N5
AE003853	insertion	1036511	1036511	A	G	C6
AE003853	SNV	1037637	1037637	G	A	C6
AE003853	insertion	1045001	1045001	A	G	H1
AE003853	insertion	1045001	1045001	A	G	H2
AE003853	insertion	1045001	1045001	A	G	M4
AE003853	insertion	1045001	1045001	A	G	N5
AE003853	insertion	1045001	1045001	A	G	C6
AE003853	SNV	1047775	1047775	G	A	H1
AE003853	SNV	1047775	1047775	G	A	M4
AE003853	deletion	1050705	1050705	A	-	H2
AE003853	deletion	1050707	1050707	T	-	H1
AE003853	deletion	1050707	1050707	T	-	H2
AE003853	SNV	1051655	1051655	C	T	C6
AE003853	insertion	1060869	1060869	G	C	H1
AE003853	insertion	1060869	1060869	G	C	H2
AE003853	insertion	1060869	1060869	G	C	M4
AE003853	insertion	1060869	1060869	G	C	N5
AE003853	insertion	1060869	1060869	G	C	C6
AE003853	insertion	1060887	1060887	G	C	H1
AE003853	insertion	1060887	1060887	G	C	H2

AE003853	insertion	1060887	1060887	G	C	M4
AE003853	insertion	1060887	1060887	G	C	N5
AE003853	insertion	1060887	1060887	G	C	C6
AE003853	insertion	1062458	1062458	A	G	H1
AE003853	insertion	1062458	1062458	A	G	M4
AE003853	insertion	1062458	1062458	A	G	N5
AE003853	insertion	1062458	1062458	A	G	C6
AE003853	SNV	1063939	1063939	G	T	H1
AE003853	SNV	1063939	1063939	G	T	H2
AE003853	SNV	1063939	1063939	G	T	M4

Supplementary Table 6. Genotypes for the 30 SNPs typed in 78 7th pandemic strains, 3 pre-7th pandemic strains, and observed from the sequence data in C6, M4, N5, H1, and H2 (as described in the main text).

strain_identifier	vc0329	vc0672	vc0835	vc0837	vc0987	vc1088	vc1091	vc1248	vc1579	vc1898	vc1967	vc2046	vc2080	vc2091	vc2674	vca0247	vca0946	vca1073	vc0008	vc0847	vc0959	vc1082	vc1318	vc1707	vc1865	vc1877	vc2077	vc2362	vc2562	vc259
Indonesia_1937_M66-2_1	C	G	T	A	G	C	A	C	C	C	G	A	C	G	G	C	T	C	G	G	C	C	A	G	T	C	C	A	C	C
Iraq_1938_M543_2	C	G	T	A	G	C	A	C	C	C	G	A	C	G	G	C	T	C	G	G	C	C	A	G	T	C	C	A	C	C
Egypt_1954_M640_3	C	G	T	A	G	C	A	C	C	C	A	A	C	G	G	C	T	C	G	G	C	C	A	G	T	C	C	A	C	C
Indonesia_1961_M793_3_4	C	A	G	G	A	T	T	T	T	C	G	A	T	T	A	C	C	C	G	G	C	C	A	G	T	C	C	A	C	C
Thailand_1968_M686_4__5	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	C	C	C	G	G	C	C	A	G	T	C	C	A	C	C
Hong_Kong_1989_M799__6	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	C	C	C	G	G	C	C	A	G	T	C	C	A	C	C
Hong_Kong_1961_M803_7	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	C	C	C	G	G	C	C	A	G	T	C	C	A	C	C
India_1962_M804_8	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	C	C	C	G	G	C	C	A	G	T	C	C	A	C	C
Cambodia_1963_M805_9	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	C	C	C	G	G	C	C	A	G	T	C	C	A	C	C
India_1964_M806_10	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	C	C	C	G	G	C	C	A	G	T	C	C	A	C	C
Vietnam_1966_M807_11	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	C	C	C	G	G	C	C	A	G	T	C	C	A	C	C
Vietnam_1969_M808_12	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	C	C	C	G	G	C	C	A	G	T	C	C	A	C	C
Burma_1971_M811_13	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	C	C	C	G	G	C	C	A	G	T	C	C	A	C	C
Philippines_1973_M815_14	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	C	C	C	G	G	C	C	A	G	T	C	C	A	C	C
Malaysia_1978_M820_15	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	C	C	C	G	G	C	C	A	G	T	C	C	A	C	C
Indonesia_1993_M662_16	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	C	C	C	G	G	C	C	A	G	T	C	C	A	C	C
Indonesia_1992_M663_17	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	C	C	C	G	G	C	C	A	G	T	C	C	A	C	C
Sierra_1970_M809_5_II_18	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
France_1982_M821_19	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Algeria_1984_M823_20	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Malawi_1990_M826_21	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Peru_1991_M2314_22	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Brazil_1999_M2315_23	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Peru_1998_M2316_24	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Malawi_1992_M829_25	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
French_1993_M830_Guiana_26	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Chad_1971_M812_27	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Chad_1974_M817__28	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Ethiopia_1970_M810_29	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Senegal_1972_M813__30	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Morocco_1972_M814__31	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Senegal_1974_M816__32	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Germany_1975_M819__33	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Comoros_1975_M818_Islands_3	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
India_1976_M650_6_III_35	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Bangladesh_1970_M647__36	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Bangladesh_1976_M795_37	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Hong_Kong_1986_M797_38	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Bangladesh_1971_N16961_39	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Haiti_2010_H1	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	G	T	T	T	G	G	A	T	G	T	C
Haiti_2010_H2	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	G	T	T	T	G	G	A	T	G	T	C
C6	C	A	G	G	A	T	T	T	T	C	G	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
M4	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	G	T	T	T	G	G	A	T	G	T	C
N5	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Kenya_1985_RC9_40	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Zaire_1988_M825_41	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	G	G	C	C	A	G	T	C	C	A	C	C
Bangladesh_1979_M646_7_IV_	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	G	G	T	T	A	G	T	A	C	G	T	C
India_1981_M652_43	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	G	G	T	T	A	G	T	A	C	G	T	C
Bangladesh_1979_M714_44	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	G	G	T	T	A	G	T	A	C	G	T	C
Thailand_1982_M723_45	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	G	G	T	T	A	G	T	A	C	G	T	C
Thailand_1985_M740_46	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	G	G	T	T	A	G	T	A	C	G	T	C
Thailand_1989_M764_47	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	G	G	T	T	A	G	T	A	C	G	T	C
Vietnam_1983_M822_48	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	G	G	T	T	A	G	T	A	C	G	T	C
India_1991_M654_8_V_49	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	G	G	T	T	T	G	G	A	T	G	T	C
Thailand_1991_M791_9_50	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	G	T	T	T	G	G	A	T	G	T	C
Algeria_1987_M824_51	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	G	T	T	T	G	G	A	T	G	T	C
Bangladesh_1994_MJ1236_52	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	G	T	T	T	G	G	A	T	G	T	C
Bangladesh_2002_53	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	G	T	T	T	G	G	A	T	G	T	C
Mozambique_2004_B33__54	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	G	T	T	T	G	G	A	T	G	T	C
Guinea_1990_M827_55	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	G	T	T	T	G	G	A	T	G	T	C
Morrocco_1991_M828_56	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	G	T	T	T	G	G	A	T	G	T	C
Bangladesh_1993_M834_10_VI	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	A	T	T	T	A	G	A	T	G	T	T
Bangladesh_1993_M833_58	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	A	T	T	T	A	G	A	T	G	T	T
India_1992_M985_59	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	A	T	T	T	A	G	A	T	G	T	T
India_1992_M987_60	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	A	T	T	T	A	G	A	T	G	T	T
India_1993_M989_61	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	A	T	T	T	A	G	A	T	G	T	T
Bangladesh_1993_M988x_62	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	A	T	T	T	A	G	A	T	G	T	T
India_1992_M986_63	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	A	T	T	T	A	G	A	T	G	T	T
India_1992_M984_64	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	A	T	T	T	A	G	A	T	G	T	T
Bangladesh_1993_M835_65	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	A	T	T	T	A	G	A	T	G	T	T
India_1993_M537_66	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	A	T	T	T	A	G	A	T	G	T	T
India_1993_M540_67	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	A	T	T	T	A	G	A	T	G	T	T
Bangladesh_1993_M542_68	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	A	T	T	T	A	G	A	T	G	T	T
India_1993_M545_69	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	A	T	T	T	A	G	A	T	G	T	T
Bangladesh_1993_M831_70	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	A	T	T	T	A	G	A	T	G	T	T
India_1992_MO10_71	T	A	G	G	A	T	T	T	T	T	A	T	T	T	A	T	C	T	A	A	T	T	T	A	G	A	T	G	T	T

Supplementary Table 7. The 1,588 orthologs used to construct the phylogenetic tree depicted in figure 2a of the main text.

	strain	orf.number	contig	position	strand	length	orthologue	function.	RAST.Subsystem	RAST.Subcategory	Rast.Categ	start	end	refID
3	VCN16961	VCN16961.3945	NC_002505	2177..816	-	1362	VC0003	GTPase and tRNA-U34 5-formylation enzyme	tRNA modification E.coli	Protein biosynthesis	Protein Me	816	2177	ref000001
14	VCN16961	VCN16961.14	NC_002505	9991..11082	+	1092	VC0014	DNA recombination and repair protein RecF	DNA repair, bacterial RecFOR pathwa	DNA repair	DNA Metal	9991	11082	ref000001
15	VCN16961	VCN16961.15	NC_002505	11103..13520	+	2418	VC0015	DNA gyrase subunit B (EC 5.99.1.3)	Resistance to fluoroquinolones	DNA replication	DNA Metal	11103	13520	ref000001
18	VCN16961	VCN16961.18	NC_002505	14769..15206	+	438	VC0018	16 kDa heat shock protein A				14769	15206	ref000001
19	VCN16961	VCN16961.19	NC_002505	16550..15294	-	1257	VC0019	Valine--pyruvate aminotransferase (EC 2.6.1.6	Alanine biosynthesis	Branched-chain amino ac	Amino Acic	15294	16550	ref000001
20	VCN16961	VCN16961.20	NC_002505	18935..16869	-	2067	VC0020	Glycyl-tRNA synthetase beta chain (EC 6.1.1.1	tRNA aminoacylation	Protein biosynthesis	Protein Me	16869	18935	ref000001
21	VCN16961	VCN16961.3929	NC_002505	19867..18950	-	918	VC0021	Glycyl-tRNA synthetase alpha chain (EC 6.1.1.	tRNA aminoacylation	Protein biosynthesis	Protein Me	18950	19867	ref000001
26	VCN16961	VCN16961.26	NC_002505	23008..22028	-	981	VC0026	Alcohol dehydrogenase (EC 1.1.1.1)	Fermentations: Lactate	Phospholipids	Fatty Acids	22028	23008	ref000001
27	VCN16961	VCN16961.27	NC_002505	24788..23256	-	1533	VC0027	Threonine dehydratase biosynthetic (EC 4.3.1.	Branched-Chain Amino Acid Biosynth	Branched-chain amino ac	Amino Acic	23256	24788	ref000001
28	VCN16961	VCN16961.28	NC_002505	26633..24792	-	1842	VC0028	Dihydroxy-acid dehydratase (EC 4.2.1.9)	Branched-Chain Amino Acid Biosynth	Branched-chain amino ac	Amino Acic	24792	26633	ref000001
29	VCN16961	VCN16961.4193	NC_002505	27581..26643	-	939	VC0029	Branched-chain amino acid aminotransferase (	Alanine biosynthesis	Branched-chain amino ac	Amino Acic	26643	27581	ref000001
31	VCN16961	VCN16961.31	NC_002505	29535..27889	-	1647	VC0031	Acetolactate synthase large subunit (EC 2.2.1.6	Branched-Chain Amino Acid Biosynth	Branched-chain amino ac	Amino Acic	27889	29535	ref000001
32	VCN16961	VCN16961.32	NC_002505	30069..31592	+	1524	VC0032	MG(2+) CHELATASE FAMILY PROTEIN / Cor	Experimental tye			30069	31592	ref000001
34	VCN16961	VCN16961.34	NC_002505	33246..32644	-	603	VC0034	Periplasmic thiol:disulfide interchange protein I	Periplasmic disulfide interchange	Protein folding	Protein Me	32644	33246	ref000001
35	VCN16961	VCN16961.4203	NC_002505	34263..33277	-	987	VC0035	YihE protein, required for LPS synthesis				33277	34263	ref000001
36	VCN16961	VCN16961.36	NC_002505	35798..34311	-	1488	VC0036	Type cbb3 cytochrome oxidase biogenesis pro	Biogenesis of cbb3-type cytochrome c	Electron accepting reactic	Respiratior	34311	35798	ref000001
37	VCN16961	VCN16961.4086	NC_002505	36418..36152	-	267	VC0037	Protein yihD				36152	36418	ref000001
39	VCN16961	VCN16961.4179	NC_002505	36979..37770	+	792	VC0039	Hypothetical Transcriptional Regulator				36979	37770	ref000001
40	VCN16961	VCN16961.40	NC_002505	37848..38495	+	648	VC0040	COG1272: Predicted membrane protein hemol	COG1272 Experimental			37848	38495	ref000001
42	VCN16961	VCN16961.42	NC_002505	40548..39103	-	1446	VC0042	Potassium uptake protein TrkH	Potassium homeostasis	Membrane Transport - no	Membrane	39103	40548	ref000001
43	VCN16961	VCN16961.43	NC_002505	41936..40560	-	1377	VC0043	Trk system potassium uptake protein trkA	Glutathione-regulated potassium-efflu	Potassium metabolism - r	Potassium	40560	41936	ref000001
44	VCN16961	VCN16961.4156	NC_002505	43278..41998	-	1281	VC0044	Ribosomal RNA small subunit methyltransfera	Conserved gene cluster associated with	Met-tRNA formyltransferase		41998	43278	ref000001
45	VCN16961	VCN16961.45	NC_002505	44281..43334	-	948	VC0045	Methionyl-tRNA formyltransferase (EC 2.1.2.9)	Folate Biosynthesis	Folate and pterines	Cofactors,	43334	44281	ref000001
46	VCN16961	VCN16961.46	NC_002505	44808..44299	-	510	VC0046	Peptide deformylase (EC 3.5.1.88)	Conserved gene cluster associated wi	Protein biosynthesis	Protein Me	44299	44808	ref000001
47	VCN16961	VCN16961.47	NC_002505	44900..46075	+	1176	VC0047	Uncharacterized protein with LysM domain, CC	Conserved gene cluster associated with	Met-tRNA formyltransferase		44900	46075	ref000001
48	VCN16961	VCN16961.48	NC_002505	46075..47190	+	1116	VC0048	Rossmann fold nucleotide-binding protein Smf	Conserved gene cluster associated with	Met-tRNA formyltransferase		46075	47190	ref000001
49	VCN16961	VCN16961.49	NC_002505	47193..47669	+	477	VC0049	Protein of unknown function Smg	Conserved gene cluster associated with	Met-tRNA formyltransferase		47193	47669	ref000001
50	VCN16961	VCN16961.4018	NC_002505	47685..48251	+	567	VC0050	Similar to C-terminal Zn-finger domain of DNA	Conserved gene cluster associated with	Met-tRNA formyltransferase		47685	48251	ref000001
56	VCN16961	VCN16961.56	NC_002505	51668..52504	+	837	VC0056	Shikimate 5-dehydrogenase (EC 1.1.1.25)	Common Pathway For Synthesis of Ar	Peripheral pathways for c	Metabolisn	51668	52504	ref000001
58	VCN16961	VCN16961.58	NC_002505	53311..52757	-	555	VC0058	carbonic anhydrase, family 3				52757	53311	ref000001
61	VCN16961	VCN16961.61	NC_002505	59988..61925	+	1938	VC0061	Thiamin biosynthesis protein ThiC	COG2363	Thiamine and thiamine py	Cofactors,	59988	61925	ref000001
62	VCN16961	VCN16961.62	NC_002505	61929..63251	+	1323	VC0062	Thiamin-phosphate pyrophosphorylase (EC 2.5	COG2363	Thiamine and thiamine py	Cofactors,	61929	63251	ref000001
63	VCN16961	VCN16961.63	NC_002505	63238..64014	+	777	VC0063	Sulfur carrier protein adenylyltransferase ThiF	Thiamin biosynthesis	Thiamine and thiamine py	Cofactors,	63238	64014	ref000001
65	VCN16961	VCN16961.65	NC_002505	64220..64990	+	771	VC0065	Thiazole biosynthesis protein ThiG	COG2363	Thiamine and thiamine py	Cofactors,	64220	64990	ref000001
66	VCN16961	VCN16961.66	NC_002505	64987..66099	+	1113	VC0066	Thiazole biosynthesis protein ThiH	Thiamin biosynthesis	Thiamine and thiamine py	Cofactors,	64987	66099	ref000001
67	VCN16961	VCN16961.67	NC_002505	68117..66324	-	1794	VC0067	Xaa-Pro aminopeptidase (EC 3.4.11.9)		Protein degradation	Protein Me	66324	68117	ref000001
68	VCN16961	VCN16961.4162	NC_002505	69191..68250	-	942	VC0068	LysR-family transcriptional regulator VC0068				68250	69191	ref000001
69	VCN16961	VCN16961.4171	NC_002505	69335..70498	+	1164	VC0069	Putative multidrug resistance protein				69335	70498	ref000001
71	VCN16961	VCN16961.71	NC_002505	71436..70975	-	462	VC0071	Transcriptional regulator AsnC				70975	71436	ref000001
72	VCN16961	VCN16961.72	NC_002505	71512..73818	+	2307	VC0072	Sensory box/GGDEF family protein				71512	73818	ref000001
73	VCN16961	VCN16961.73	NC_002505	73785..74663	+	879	VC0073	SAM-dependent methyltransferase (EC 2.1.1.-)	CBSS-342610.3.peg.1536			73785	74663	ref000001
75	VCN16961	VCN16961.75	NC_002505	76153..75266	-	888	VC0075	Putative acetate efflux pump, MadN				75266	76153	ref000001
76	VCN16961	VCN16961.76	NC_002505	76635..76210	-	426	VC0076	Universal stress protein A	Multiple resistance and pH-related ant	Stress Response - no sub	Stress Res	76210	76635	ref000001
78	VCN16961	VCN16961.4039	NC_002505	76800..77327	+	528	VC0078	Ferritin-like protein 2	Iron-sulfur cluster assembly			76800	77327	ref000001
79	VCN16961	VCN16961.79	NC_002505	77403..77726	+	324	VC0079	Universal stress protein B	Multiple resistance and pH-related ant	Stress Response - no sub	Stress Res	77403	77726	ref000001
80	VCN16961	VCN16961.4012	NC_002505	77868..79055	+	1188	VC0080	NAD(FAD)-utilizing dehydrogenases				77868	79055	ref000001
81	VCN16961	VCN16961.81	NC_002505	79963..79052	-	912	VC0081	Permease of the drug/metabolite transporter (D	Cobalt-zinc-cadmium resistance	RNA processing and mod	RNA Metal	79052	79963	ref000001
82	VCN16961	VCN16961.4260	NC_002505	80086..81618	+	1533	VC0082	DNA recombination protein RmuC	DNA repair, bacterial	DNA repair	DNA Metal	80086	81618	ref000001
83	VCN16961	VCN16961.83	NC_002505	81663..82445	+	783	VC0083	Ubiquinone/menaquinone biosynthesis methylt	Experimental-Ubiquinone Biosynthesis	Quinone cofactors	Cofactors,	81663	82445	ref000001
84	VCN16961	VCN16961.4207	NC_002505	82472..83077	+	606	VC0084	COG3165: Uncharacterized protein conserved	Experimental-Ubiquinone BiosynthesisVDC			82472	83077	ref000001
85	VCN16961	VCN16961.85	NC_002505	83074..84708	+	1635	VC0085	Ubiquinone biosynthesis monooxygenase UbiB	Experimental-Ubiquinone Biosynthesis	Quinone cofactors	Cofactors,	83074	84708	ref000001
86	VCN16961	VCN16961.86	NC_002505	84768..85016	+	249	VC0086	Twin-arginine translocation protein TatA	YgfZ	Secretion	Protein Me	84768	85016	ref000001
87	VCN16961	VCN16961.87	NC_002505	85020..85421	+	402	VC0087	Twin-arginine translocation protein TatB	Twin-arginine translocation system	Secretion	Protein Me	85020	85421	ref000001
88	VCN16961	VCN16961.88	NC_002505	85510..86262	+	753	VC0088	Twin-arginine translocation protein TatC	Twin-arginine translocation system	Secretion	Protein Me	85510	86262	ref000001
90	VCN16961	VCN16961.90	NC_002505	89045..87681	-	1365	VC0090	DNA-damage-inducible protein F				87681	89045	ref000001
91	VCN16961	VCN16961.91	NC_002505	89985..89116	-	870	VC0091	O-methyltransferase-related protein				89116	89985	ref000001
92	VCN16961	VCN16961.92	NC_002505	90642..90013	-	630	VC0092	SOS-response repressor and protease LexA (E	DNA repair, bacterial	DNA repair	DNA Metal	90013	90642	ref000001
93	VCN16961	VCN16961.4126	NC_002505	90962..93388	+	2427	VC0093	Glycerol-3-phosphate acyltransferase (EC 2.3.:	Glycerolipid and Glycerophospholipid	Phospholipids	Fatty Acids	90962	93388	ref000001
94	VCN16961	VCN16961.94	NC_002505	94318..93464	-	855	VC0094	4-hydroxybenzoate polyprenyltransferase (EC :	Experimental-Ubiquinone Biosynthesis	Quinone cofactors	Cofactors,	93464	94318	ref000001
97	VCN16961	VCN16961.97	NC_002505	95062..95472	+	411	VC0097	Flagellar biosynthesis protein fliL	Flagellum	Flagellar motility in Proka	Motility and	95062	95472	ref000001
98	VCN16961	VCN16961.98	NC_002505	97571..95592	-	1980	VC0098	Methyl-accepting chemotaxis protein				95592	97571	ref000001
99	VCN16961	VCN16961.99	NC_002505	98779..97946	-	834	VC0099	GlpG protein (membrane protein of glp regulon	Glycerol and Glycerol-3-phosphate Up	Sugar alcohols	Carbohydr	97946	98779	ref000001
113	VCN16961	VCN16961.113	NC_002505	108252..108920	+	669	VC0113	Putative methyltransferase associated with DUF414				108252	108920	ref000001
115	VCN16961	VCN16961.4276	NC_002505	109478..109966	+	489	VC0115	Periplasmic/membrane protein associated with	Experimental tye			109478	109966	ref000001
117	VCN16961	VCN16961.117	NC_002505	112753..111557	-	1197	VC0117	Homolog of E. coli HemY protein	Experimental tye	Tetrapyrroles	Cofactors,	111557	112753	ref000001
118	VCN16961	VCN16961.118	NC_002505	113949..112750	-	1200	VC0118	Uroporphyrinogen-III methyltransferase (EC 2.1	Experimental tye			112750	113949	ref000001
120	VCN16961	VCN16961.4266	NC_002505	115696..114761	-	936	VC0120	Porphobilinogen deaminase (EC 2.5.1.61)	Experimental tye	Tetrapyrroles	Cofactors,	114761	115696	ref000001
122	VCN16961	VCN16961.122	NC_002505	116053..118584	+	2532	VC0122	Adenylate cyclase (EC 4.6.1.1)	cAMP signaling in bacteria	Regulation and Cell signa	Regulation	116053	118584	ref000001
123	VCN16961	VCN16961.123	NC_002505	119004..118690	-	315	VC0123	Frataxin homolog CyaY, facilitates iron supply f	Iron-sulfur cluster assembly	Respiration - no subcateg	Respiratior	118690	119004	ref000001
124	VCN16961	VCN16961.124	NC_002505	119229..120482	+	1254	VC0125	Diaminopimelate decarboxylase (EC 4.1.1.20)	CBSS-323850.3.peg.3269	Lysine, threonine, methio	Amino Acic	119229	120482	ref000001
125	VCN16961	VCN16961.4226	NC_002505	120494..121324	+	831	VC0126	Diaminopimelate epimerase (EC 5.1.1.7)	CBSS-323850.3.peg.3269	Lysine, threonine, methio	Amino Acic	120494	121324	ref000001
126	VCN16961	VCN16961.126	NC_002505	121338..122036	+	699	VC0127	Protein of unknown function DUF484	CBSS-323850.3.peg.3269			121338	122036	ref000001

127	VCN16961	VCN16961.127	NC_002505	122005..122940	+	936	VC0128	Tyrosine recombinase xerC	CBSS-323850.3.peg.3269				122005	122940	ref000001
128	VCN16961	VCN16961.128	NC_002505	122943..123662	+	720	VC0129	2-haloalkanoic acid dehalogenase (EC 3.8.1.2)	CBSS-323850.3.peg.3269				122943	123662	ref000001
129	VCN16961	VCN16961.129	NC_002505	123772..126261	+	2490	VC0130	Sensory box/GGDEF family protein					123772	126261	ref000001
131	VCN16961	VCN16961.131	NC_002505	128431..126887	-	1545	VC0132	Predicted membrane protein					126887	128431	ref000001
134	VCN16961	VCN16961.134	NC_002505	130673..129657	-	1017	VC0135	Lysophospholipase L2 (EC 3.1.1.5)	Synechocystis experimental	Triacylglycerols	Fatty Acids		129657	130673	ref000001
136	VCN16961	VCN16961.3986	NC_002505	131385..132611	+	1227	VC0137	Predicted signal transduction protein	Motility of Campylobacter	Flagellar motility in Proka	Motility and		131385	132611	ref000001
138	VCN16961	VCN16961.138	NC_002505	133261..132791	-	471	VC0139	Non-specific DNA-binding protein Dps / Iron-bir	Cobalt-zinc-cadmium resistance	Resistance to antibiotics a	Virulence		132791	133261	ref000001
147	VCN16961	VCN16961.4338	NC_002505	138178..138852	+	675	VC0148	Cell division transporter, ATP-binding protein ft	CBSS-393121.3.peg.2760	Secretion	Protein Me		138178	138852	ref000001
148	VCN16961	VCN16961.148	NC_002505	138842..139834	+	993	VC0149	Cell division protein ftsX	CBSS-393121.3.peg.2760	Secretion	Protein Me		138842	139834	ref000001
155	VCN16961	VCN16961.155	NC_002505	148885..147278	-	1608	VC0157	Alkaline serine exoprotease A precursor (EC 3.4.21.-)					147278	148885	ref000001
160	VCN16961	VCN16961.160	NC_002505	157441..158925	+	1485	VC0162	Ketol-acid reductoisomerase (EC 1.1.1.86)	Coenzyme A Biosynthesis	Coenzyme A	Cofactors,		157441	158925	ref000001
162	VCN16961	VCN16961.162	NC_002505	162529..159419	-	3111	VC0164	RND multidrug efflux transporter; Acriflavin resi	Acriflavin resistance cluster				159419	162529	ref000001
168	VCN16961	VCN16961.168	NC_002505	168532..170247	+	1716	VC0170	Peptide ABC transporter, ATP-binding protein					168532	170247	ref000001
169	VCN16961	VCN16961.4282	NC_002505	170339..171895	+	1557	VC0171	Peptide ABC transporter, periplasmic peptide-binding protein					170339	171895	ref000001
170	VCN16961	VCN16961.3950	NC_002505	172050..173027	+	978	VC0172	Peptide ABC transporter, permease component					172050	173027	ref000001
171	VCN16961	VCN16961.171	NC_002505	173030..173968	+	939	VC0173	Peptide ABC transporter, permease component					173030	173968	ref000001
184	VCN16961	VCN16961.3943	NC_002505	190809..189457	-	1353	VC0186	Glutathione reductase (EC 1.8.1.7)	Glutathione Redox Metabolism	Oxidative stress	Stress Res		189457	190809	ref000001
186	VCN16961	VCN16961.186	NC_002505	192034..194076	+	2043	VC0188	Oligopeptidase A (EC 3.4.24.70)					192034	194076	ref000001
188	VCN16961	VCN16961.188	NC_002505	194214..196385	+	2172	VC0190	ATP-dependent DNA helicase UvrD/PcrA	DNA repair, bacterial	DNA repair	DNA Metal		194214	196385	ref000001
190	VCN16961	VCN16961.190	NC_002505	198685..197873	-	813	VC0192	Transcriptional regulator, AraC/XylS family					197873	198685	ref000001
193	VCN16961	VCN16961.4169	NC_002505	201663..200761	-	903	VC0195	RarD protein					200761	201663	ref000001
194	VCN16961	VCN16961.3968	NC_002505	201830..203665	+	1836	VC0196	ATP-dependent DNA helicase RecQ	DNA repair, bacterial RecFOR pathwa	DNA repair	DNA Metal		201830	203665	ref000001
202	VCN16961	VCN16961.202	NC_002505	213288..212440	-	849	VC0204	Transcriptional regulator, RpiR family					212440	213288	ref000001
204	VCN16961	VCN16961.4145	NC_002505	213519..214421	+	903	VC0206	Glucokinase regulatory protein					213519	214421	ref000001
205	VCN16961	VCN16961.205	NC_002505	214449..215897	+	1449	VC0207	PTS system, N-acetylmuramic acid-specific IIB	Sialic Acid Metabolism	Capsular and extracellula	Cell Wall a		214449	215897	ref000001
206	VCN16961	VCN16961.206	NC_002505	216492..216004	-	489	VC0208	Putative inner membrane protein (Fragment)					216004	216492	ref000001
207	VCN16961	VCN16961.207	NC_002505	217424..216558	-	867	VC0209	Protein yicC	CBSS-323097.3.peg.2594				216558	217424	ref000001
208	VCN16961	VCN16961.4321	NC_002505	217588..218304	+	717	VC0210	Ribonuclease PH (EC 2.7.7.56)	tRNA processing	RNA processing and mod	RNA Metal		217588	218304	ref000001
209	VCN16961	VCN16961.209	NC_002505	218667..219311	+	645	VC0211	Orotate phosphoribosyltransferase (EC 2.4.2.1	De Novo Pyrimidine Synthesis	Nucleosides and Nucleoti	Nucleoside		218667	219311	ref000001
210	VCN16961	VCN16961.210	NC_002505	220374..219397	-	978	VC0212	Lipid A biosynthesis (KDO) 2-(lauroyl)-lipid IVA	KDO2-Lipid A biosynthesis	Gram-Negative cell wall c	Cell Wall a		219397	220374	ref000001
211	VCN16961	VCN16961.4267	NC_002505	221332..220385	-	948	VC0213	Lipid A biosynthesis lauroyl acyltransferase (EC	KDO2-Lipid A biosynthesis	Gram-Negative cell wall c	Cell Wall a		220385	221332	ref000001
212	VCN16961	VCN16961.4095	NC_002505	221928..221338	-	591	VC0214	Transcriptional regulator					221338	221928	ref000001
213	VCN16961	VCN16961.213	NC_002505	223286..222087	-	1200	VC0215	Phosphopantothenoylcysteine decarboxylase (	Coenzyme A Biosynthesis	Coenzyme A	Cofactors,		222087	223286	ref000001
225	VCN16961	VCN16961.4403	NC_002505	231998..232705	+	708	VC0227	3-deoxy-D-manno-octulosonic acid kinase (EC	Vibrio Core Oligosaccharide Biosynthesis				231998	232705	ref000001
232	VCN16961	VCN16961.232	NC_002505	239357..238569	-	789	VC0234	Mannosyltransferase OCH1 and related enzym	Vibrio Core Oligosaccharide Biosynthesis				238569	239357	ref000001
234	VCN16961	VCN16961.234	NC_002505	241440..240400	-	1041	VC0236	ADP-heptose--lipooligosaccharide heptosyltran	Vibrio Core Oligosaccharide Biosynthesis				240400	241440	ref000001
237	VCN16961	VCN16961.237	NC_002505	244984..243212	-	1773	VC0239	Polysaccharide deacetylase	Vibrio Core Oligosaccharide Biosynthesis				243212	244984	ref000001
238	VCN16961	VCN16961.238	NC_002505	246087..245143	-	945	VC0240	ADP-L-glycero-D-manno-heptose-6-epimerase	Vibrio Core Oligosaccharide Biosynthe	Gram-Negative cell wall c	Cell Wall a		245143	246087	ref000001
265	VCN16961	VCN16961.264	NC_002505	273485..272562	-	924	VC0267	D-3-phosphoglycerate dehydrogenase (EC 1.1	ZZ gjo scratch	Pyridoxine	Cofactors,		272562	273485	ref000001
269	VCN16961	VCN16961.268	NC_002505	278060..277002	-	1059	VC0271	Hemolysin					277002	278060	ref000001
271	VCN16961	VCN16961.270	NC_002505	278432..278704	+	273	VC0273	DNA-binding protein HU-alpha	DNA structural proteins, bacterial	DNA Metabolism - no sub	DNA Metal		278432	278704	ref000001
272	VCN16961	VCN16961.271	NC_002505	278705..279439	+	735	VC0274	Peptidyl-prolyl cis-trans isomerase (EC 5.2.1.8)					278705	279439	ref000001
273	VCN16961	VCN16961.272	NC_002505	280828..279539	-	1290	VC0275	Phosphoribosylamine--glycine ligase (EC 6.3.4	De Novo Purine Biosynthesis	Purines	Nucleoside		279539	280828	ref000001
274	VCN16961	VCN16961.273	NC_002505	282479..280887	-	1593	VC0276	IMP cyclohydrolase (EC 3.5.4.10) / Phosphorib	De Novo Purine Biosynthesis	Purines	Nucleoside		280887	282479	ref000001
276	VCN16961	VCN16961.4352	NC_002505	282768..283166	+	399	VC0277	HTH-type transcriptional regulator zntR					282768	283166	ref000001
277	VCN16961	VCN16961.4216	NC_002505	283393..284952	+	1560	VC0278	Transcriptional activator of cad operon	Lysine degradation	Lysine, threonine, methio	Amino Acid		283393	284952	ref000001
284	VCN16961	VCN16961.3874	NC_002505	293997..292513	-	1485	VC0284b	Ferrichrome-iron receptor	Transport of Iron	Iron Scavenging Mechani	Virulence		292513	293997	ref000001
293	VCN16961	VCN16961.289	NC_002505	302204..301317	-	888	VC0293	Ribosomal protein L11 methyltransferase (EC 2	Ribosome biogenesis bacterial	Protein biosynthesis	Protein Me		301317	302204	ref000001
298	VCN16961	VCN16961.4199	NC_002505	307070..305121	-	1950	VC0298	Acetyl-coenzyme A synthetase (EC 6.2.1.1)	Pyruvate metabolism II: acetyl-CoA, a	Central carbohydrate met	Carbohydr		305121	307070	ref000001
300	VCN16961	VCN16961.296	NC_002505	309734..307911	-	1824	VC0300	Predicted signal-transduction protein					307911	309734	ref000001
302	VCN16961	VCN16961.298	NC_002505	309994..311184	+	1191	VC0302	Probable 3-phenylpropionic acid transporter	Flavohaemoglobin	Stress Response - no sub	Stress Res		309994	311184	ref000001
303	VCN16961	VCN16961.299	NC_002505	311277..314720	+	3444	VC0303	Sensor histidine kinase					311277	314720	ref000001
304	VCN16961	VCN16961.300	NC_002505	316336..314843	-	1494	VC0304	Guanosine-5'-triphosphate,3'-diphosphate pyro	Phosphate metabolism	Regulation and Cell signa	Regulation		314843	316336	ref000001
305	VCN16961	VCN16961.301	NC_002505	317660..316344	-	1317	VC0305	ATP-dependent RNA helicase RhlB	ATP-dependent RNA helicases, bacte	RNA processing and mod	RNA Metal		316344	317660	ref000001
306	VCN16961	VCN16961.302	NC_002505	317772..318098	+	327	VC0306	Thioredoxin					317772	318098	ref000001
307	VCN16961	VCN16961.303	NC_002505	318296..319555	+	1260	VC0307	Transcription termination factor Rho	Transcription factors bacterial	Transcription	RNA Metal		318296	319555	ref000001
317	VCN16961	VCN16961.313	NC_002505	331605..332678	+	1074	VC0318	UDP-N-acetylenolpyruvoylglucosamine reducta	Peptidoglycan Biosynthesis	Cell Wall and Capsule - n	Cell Wall a		331605	332678	ref000001
318	VCN16961	VCN16961.314	NC_002505	332675..333637	+	963	VC0319	Biotin-protein ligase (EC 6.3.4.15) / Biotin oper	Biotin biosynthesis	Biotin	Cofactors,		332675	333637	ref000001
319	VCN16961	VCN16961.4398	NC_002505	334610..333687	-	924	VC0320	Pantothenate kinase (EC 2.7.1.33)	Coenzyme A Biosynthesis	Coenzyme A	Cofactors,		333687	334610	ref000001
326	VCN16961	VCN16961.322	NC_002505	339768..340133	+	366	VC0327	LSU ribosomal protein L7/L12 (L23e)	Ribosome LSU bacterial	Protein biosynthesis	Protein Me		339768	340133	ref000001
327	VCN16961	VCN16961.4400	NC_002505	340374..344399	+	4026	VC0328	DNA-directed RNA polymerase beta subunit (E	EGS prediction	Transcription	RNA Metal		340374	344399	ref000001
328	VCN16961	VCN16961.324	NC_002505	344504..348709	+	4206	VC0329	DNA-directed RNA polymerase beta' subunit (E	RNA polymerase bacterial	Transcription	RNA Metal		344504	348709	ref000001
329	VCN16961	VCN16961.325	NC_002505	349314..348820	-	495	VC0330	Regulator of sigma D					348820	349314	ref000001
330	VCN16961	VCN16961.326	NC_002505	349459..350268	+	810	VC0331	NADH pyrophosphatase (EC 3.6.1.22)	Nudix proteins (nucleoside triphospha	Detoxification	Nucleoside		349459	350268	ref000001
331	VCN16961	VCN16961.4289	NC_002505	350523..351590	+	1068	VC0332	Uroporphyrinogen III decarboxylase (EC 4.1.1.:	Experimental tye	Tetrapyrroles	Cofactors,		350523	351590	ref000001
332	VCN16961	VCN16961.328	NC_002505	351596..352324	+	729	VC0333	Transcriptional reguator, TetR family					351596	352324	ref000001
334	VCN16961	VCN16961.330	NC_002505	354515..353367	-	1149	VC0335	Membrane-bound metallopeptidase					353367	354515	ref000001
343	VCN16961	VCN16961.4300	NC_002505	365347..367065	+	1719	VC0344	N-acetylmuramoyl-L-alanine amidase AmiB pre	N-acetylmuramoyl-L-alanine amidase				365347	367065	ref000001
352	VCN16961	VCN16961.4340	NC_002505	375450..374470	-	981	VC0353	FOG: WD40 repeat					374470	375450	ref000001
370	VCN16961	VCN16961.366	NC_002505	386594..388000	+	1407	VC0371	Replicative DNA helicase (EC 3.6.1.-)	CBSS-335283.3.peg.454	DNA replication	DNA Metal		386594	388000	ref000001
371	VCN16961	VCN16961.367	NC_002505	387972..389099	+	1128	VC0372	Alanine racemase, biosynthetic (EC 5.1.1.1)	Alanine biosynthesis	Alanine, serine, and glycir	Amino Acid		387972	389099	ref000001
373	VCN16961	VCN16961.369	NC_002505	389886..391538	+	1653	VC0374	Glucose-6-phosphate isomerase (EC 5.3.1.9)	Sucrose Metabolism	Central carbohydrate met	Carbohydr		389886	391538	ref000001
375	VCN16961	VCN16961.371	NC_002505	391741..392919	+	1179	VC0376	membrane protein					391741	392919	ref000001
381	VCN16961	VCN16961.376	NC_002505	395774..396439	+	666	VC0381	ABC-type Fe3+-hydroxamate transport system,	periplasmic component				395774	396439	ref000001
384	VCN16961	VCN16961.379	NC_002505	396876..398720	+	1845	VC0384	Sulfite reductase [NADPH] flavoprotein alpha-c	Superpathway of cysteine biosynthesi	Inorganic sulfur assimilati	Sulfur Meta		396876	398720	ref000001

385	VCN16961	VCN16961.380	NC_002505	398720..400453	+	1734	VC0385	Sulfite reductase [NADPH] hemoprotein beta-c	Superpathway of cysteine biosynthesi	Inorganic sulfur assimilati	Sulfur Meta	398720	400453	ref000001	
390	VCN16961	VCN16961.385	NC_002505	409037..412717	+	3681	VC0390	5-methyltetrahydrofolate--homocysteine methyl	Methionine Biosynthesis	Lysine, threonine, methio	Amino Acid	409037	412717	ref000001	
391	VCN16961	VCN16961.386	NC_002505	414229..412790	-	1440	VC0391	Aspartokinase (EC 2.7.2.4)	Lysine Biosynthesis DAP Pathway	Lysine, threonine, methio	Amino Acid	412790	414229	ref000001	
392	VCN16961	VCN16961.387	NC_002505	414609..415727	+	1119	VC0392	Serine--pyruvate aminotransferase (EC 2.6.1.5	Serine-glyoxylate cycle	Central carbohydrate met	Carbohydr	414609	415727	ref000001	
393	VCN16961	VCN16961.4383	NC_002505	417590..415806	-	1785	VC0393	Lipid A core-O-antigen ligase				415806	417590	ref000001	
394	VCN16961	VCN16961.389	NC_002505	420477..417655	-	2823	VC0394	Excinuclease ABC subunit A	DNA repair, UvrABC system	DNA repair	DNA Metal	417655	420477	ref000001	
395	VCN16961	VCN16961.390	NC_002505	421508..420633	-	876	VC0395	UTP--glucose-1-phosphate uridylyltransferase	Sucrose Metabolism	Di- and oligosaccharides	Carbohydr	420633	421508	ref000001	
396	VCN16961	VCN16961.391	NC_002505	422322..421678	-	645	VC0396	DNA-binding HTH domain-containing protein				421678	422322	ref000001	
397	VCN16961	VCN16961.392	NC_002505	422614..423147	+	534	VC0397	Single-stranded DNA-binding protein	CBSS-335283.3.peg.454	DNA repair	DNA Metal	422614	423147	ref000001	
399	VCN16961	VCN16961.394	NC_002505	425296..426735	+	1440	VC0399	MSHA biogenesis protein MshI	Mannose-sensitive hemagglutinin type	Type III, Type IV, ESAT s	Virulence	425296	426735	ref000001	
400	VCN16961	VCN16961.395	NC_002505	426732..427382	+	651	VC0400	MSHA biogenesis protein MshJ	Mannose-sensitive hemagglutinin type	Type III, Type IV, ESAT s	Virulence	426732	427382	ref000001	
402	VCN16961	VCN16961.397	NC_002505	427707..429386	+	1680	VC0402	MSHA biogenesis protein MshL	Mannose-sensitive hemagglutinin type	Type III, Type IV, ESAT s	Virulence	427707	429386	ref000001	
403	VCN16961	VCN16961.398	NC_002505	429391..430236	+	846	VC0403	MSHA biogenesis protein MshM	Mannose-sensitive hemagglutinin type	Type III, Type IV, ESAT s	Virulence	429391	430236	ref000001	
404	VCN16961	VCN16961.399	NC_002505	430215..431384	+	1170	VC0404	MSHA biogenesis protein MshN	Mannose-sensitive hemagglutinin type	Type III, Type IV, ESAT s	Virulence	430215	431384	ref000001	
405	VCN16961	VCN16961.400	NC_002505	431374..433101	+	1728	VC0405	MSHA biogenesis protein MshE	Mannose-sensitive hemagglutinin type	Type III, Type IV, ESAT s	Virulence	431374	433101	ref000001	
406	VCN16961	VCN16961.401	NC_002505	433110..434333	+	1224	VC0406	MSHA biogenesis protein MshG	Mannose-sensitive hemagglutinin type	Type III, Type IV, ESAT s	Virulence	433110	434333	ref000001	
408	VCN16961	VCN16961.403	NC_002505	434833..435423	+	591	VC0408	MSHA pilin protein MshB	Mannose-sensitive hemagglutinin type	Type III, Type IV, ESAT s	Virulence	434833	435423	ref000001	
414	VCN16961	VCN16961.409	NC_002505	438229..441987	+	3759	VC0414	MSHA biogenesis protein MshQ	Mannose-sensitive hemagglutinin type	Type III, Type IV, ESAT s	Virulence	438229	441987	ref000001	
415	VCN16961	VCN16961.410	NC_002505	442155..443198	+	1044	VC0415	Rod shape-determining protein mreB	Bacterial Cytoskeleton	Cell cycle in Prokaryota	Cell Divisic	442155	443198	ref000001	
416	VCN16961	VCN16961.411	NC_002505	443255..444145	+	891	VC0416	Rod shape-determining protein mreC	Bacterial Cytoskeleton	Cell cycle in Prokaryota	Cell Divisic	443255	444145	ref000001	
418	VCN16961	VCN16961.3922	NC_002505	444617..445180	+	564	VC0418	Septum formation protein Maf	Bacterial Cytoskeleton	Cell cycle in Prokaryota	Cell Divisic	444617	445180	ref000001	
419	VCN16961	VCN16961.414	NC_002505	445206..446675	+	1470	VC0419	Cytoplasmic axial filament protein CafA and Ril	CBSS-354.1.peg.2917	RNA processing and mod	RNA Metal	445206	446675	ref000001	
420	VCN16961	VCN16961.415	NC_002505	446688..450563	+	3876	VC0420	FIG006388: Possible exported protein	CBSS-354.1.peg.2917			446688	450563	ref000001	
421	VCN16961	VCN16961.416	NC_002505	450572..451399	+	828	VC0421	FIG003879: Predicted amidohydrolase	CBSS-354.1.peg.2917			450572	451399	ref000001	
422	VCN16961	VCN16961.417	NC_002505	451399..452844	+	1446	VC0422	TldD protein, probably a protease	PmbA and a Hypothetical Protein			451399	452844	ref000001	
423	VCN16961	VCN16961.418	NC_002505	454163..452940	-	1224	VC0423	Arginine deiminase (EC 3.5.3.6)	Arginine Deiminase Pathway	Arginine; urea cycle, poly	Amino Acid	452940	454163	ref000001	
428	VCN16961	VCN16961.423	NC_002505	457296..456859	-	438	VC0428	Universal stress protein family 3	Universal stress protein family	Stress Response - no sub	Stress Res	456859	457296	ref000001	
429	VCN16961	VCN16961.424	NC_002505	459982..457418	-	2565	VC0429	TRAP-type uncharacterized transport system,	fused permease component			457418	459982	ref000001	
430	VCN16961	VCN16961.425	NC_002505	461139..460153	-	987	VC0430	Immunogenic protein				460153	461139	ref000001	
431	VCN16961	VCN16961.426	NC_002505	461978..461445	-	534	VC0431	Arginine pathway regulatory protein ArgR, repr	Arginine Biosynthesis	Arginine; urea cycle, poly	Amino Acid	461445	461978	ref000001	
432	VCN16961	VCN16961.4030	NC_002505	462243..463178	+	936	VC0432	Malate dehydrogenase (EC 1.1.1.37)	TCA Cycle	Central carbohydrate met	Carbohydr	462243	463178	ref000001	
433	VCN16961	VCN16961.428	NC_002505	463652..465058	+	1407	VC0433	Arginine/ornithine antiporter ArcD	Arginine Deiminase Pathway	Arginine; urea cycle, poly	Amino Acid	463652	465058	ref000001	
434	VCN16961	VCN16961.429	NC_002505	466253..465207	-	1047	VC0434	Octaprenyl-diphosphate synthase (EC 2.5.1.-) /	Isoprenoid Biosynthesis	Isoprenoids	Cofactors,	465207	466253	ref000001	
437	VCN16961	VCN16961.4098	NC_002505	467264..468436	+	1173	VC0437	COG0536: GTP-binding protein Obg	CBSS-176279.3.peg.868	Protein biosynthesis	Protein Me	467264	468436	ref000001	
451	VCN16961	VCN16961.446	NC_002505	483184..482912	-	273	VC0451	UPF0269 protein yggX	Iron-sulfur cluster assembly	Stress Response - no sub	Stress Res	482912	483184	ref000001	
452	VCN16961	VCN16961.447	NC_002505	484259..483198	-	1062	VC0452	A/G-specific adenine glycosylase (EC 3.2.2.-)	CBSS-261594.1.peg.788	DNA repair	DNA Metal	483198	484259	ref000001	
453	VCN16961	VCN16961.448	NC_002505	484499..485218	+	720	VC0453	tRNA(m7G46)-methyltransferase (EC 2.1.1.33)				484499	485218	ref000001	
454	VCN16961	VCN16961.3931	NC_002505	485329..486249	+	921	VC0454	Glutaminase (EC 3.5.1.2)	Acid resistance mechanisms	Glutamine, glutamate, as	Amino Acid	485329	486249	ref000001	
455	VCN16961	VCN16961.450	NC_002505	487645..486470	-	1176	VC0455	Similar to coproporphyrinogen III oxidase, oxyg	CBSS-630.2.peg.3360	Tetrapyrroles	Cofactors,	486470	487645	ref000001	
456	VCN16961	VCN16961.451	NC_002505	488241..487639	-	603	VC0456	Xanthosine/inosine triphosphate pyrophosphat	CBSS-630.2.peg.3360	Tetrapyrroles	Cofactors,	487639	488241	ref000001	
458	VCN16961	VCN16961.453	NC_002505	489078..488788	-	291	VC0458	UPF0235 protein VC0458	CBSS-630.2.peg.3360			488788	489078	ref000001	
459	VCN16961	VCN16961.454	NC_002505	489635..489078	-	558	VC0459	Putative membrane protein (Putative integral m	CBSS-630.2.peg.3360			489078	489635	ref000001	
460	VCN16961	VCN16961.455	NC_002505	490507..489689	-	819	VC0460	Pyrroline-5-carboxylate reductase (EC 1.5.1.2)	CBSS-630.2.peg.3360	Proline and 4-hydroxyprol	Amino Acid	489689	490507	ref000001	
461	VCN16961	VCN16961.456	NC_002505	491270..490560	-	711	VC0461	FIG018583: protein of unknown function	CBSS-630.2.peg.3360	Proline and 4-hydroxyprol	Amino Acid	490560	491270	ref000001	
462	VCN16961	VCN16961.457	NC_002505	491296..492333	+	1038	VC0462	Twitching motility protein PilT	Type IV pilus			491296	492333	ref000001	
463	VCN16961	VCN16961.458	NC_002505	492348..493454	+	1107	VC0463	Type IV pilus (Tfp) assembly protein, ATPase	component PilU			492348	493454	ref000001	
464	VCN16961	VCN16961.459	NC_002505	493566..494369	+	804	VC0464	transcriptional regulator, LuxR family				493566	494369	ref000001	
465	VCN16961	VCN16961.4158	NC_002505	494478..495758	+	1281	VC0465	Tyrosyl-tRNA synthetase (EC 6.1.1.1)	tRNA aminoacylation	Protein biosynthesis	Protein Me	494478	495758	ref000001	
466	VCN16961	VCN16961.461	NC_002505	496218..495796	-	423	VC0466	Putative Holliday junction resolvase (EC 3.1.-.-	CBSS-281090.3.peg.464			495796	496218	ref000001	
467	VCN16961	VCN16961.3928	NC_002505	496862..496299	-	564	VC0467	UPF0301 protein yqgE	CBSS-320372.3.peg.6046			496299	496862	ref000001	
468	VCN16961	VCN16961.463	NC_002505	497854..496898	-	957	VC0468	Glutathione synthetase (EC 6.3.2.3)	CBSS-320372.3.peg.6046	Regulation and Cell signa	Regulation	496898	497854	ref000001	
469	VCN16961	VCN16961.464	NC_002505	498599..497868	-	732	VC0469	Ribosomal RNA small subunit methyltransferas	Heat shock dnaK gene cluster extend	Stress Response - no sub	Stress Res	497868	498599	ref000001	
471	VCN16961	VCN16961.466	NC_002505	500048..499560	-	489	VC0471	Protein sprT				499560	500048	ref000001	
476	VCN16961	VCN16961.4078	NC_002505	506912..507937	+	1026	VC0476	D-erythrose-4-phosphate dehydrogenase (EC :	Pyridoxin (Vitamin B6) Biosynthesis	Pyridoxine	Cofactors,	506912	507937	ref000001	
477	VCN16961	VCN16961.4363	NC_002505	508086..509249	+	1164	VC0477	Phosphoglycerate kinase (EC 2.7.2.3)	Entner-Doudoroff Pathway	Central carbohydrate met	Carbohydr	508086	509249	ref000001	
478	VCN16961	VCN16961.473	NC_002505	509405..510481	+	1077	VC0478	Fructose-bisphosphate aldolase class II (EC 4.	Hexitol degradation	Central carbohydrate met	Carbohydr	509405	510481	ref000001	
481	VCN16961	VCN16961.476	NC_002505	512339..511704	-	636	VC0481	Lysine efflux permease	CBSS-316407.3.peg.2816			511704	512339	ref000001	
482	VCN16961	VCN16961.477	NC_002505	512504..513400	+	897	VC0482	Chromosome initiation inhibitor				512504	513400	ref000001	
483	VCN16961	VCN16961.478	NC_002505	513480..514196	+	717	VC0483	Protein of unknown function DUF541	CBSS-316407.3.peg.2816			513480	514196	ref000001	
485	VCN16961	VCN16961.480	NC_002505	516144..514732	-	1413	VC0485	Pyruvate kinase (EC 2.7.1.40)	Glycerate metabolism	Central carbohydrate met	Carbohydr	514732	516144	ref000001	
486	VCN16961	VCN16961.3941	NC_002505	516572..517342	+	771	VC0486	Transcriptional regulator of glmS gene, DeoR	family			516572	517342	ref000001	
487	VCN16961	VCN16961.482	NC_002505	517405..519237	+	1833	VC0487	Glucosamine--fructose-6-phosphate aminotran	Sialic Acid Metabolism	Capsular and extracellula	Cell Wall a	517405	519237	ref000001	
488	VCN16961	VCN16961.483	NC_002505	520377..519298	-	1080	VC0488	Extracellular solute-binding protein				519298	520377	ref000001	
520	VCN16961	VCN16961.509	NC_002505	552284..550407	-	1878	VC0517	RNA polymerase sigma factor RpoD	CBSS-243277.1.peg.511	Transcription	RNA Metal	550407	552284	ref000001	
525	VCN16961	VCN16961.513	NC_002505	555164..556182	+	1019	VC0521b	Endopeptidase essential in most Bacteria (E. c	YrdC-YciO	Cell Division and Cell Cyc	Cell Divisic	555164	556182	ref000001	
527	VCN16961	VCN16961.514	NC_002505	556336..557148	+	813	VC0522	Menaquinone biosynthesis related protein, puta	Synechocystis experimental	Quinone cofactors	Cofactors,	556336	557148	ref000001	
528	VCN16961	VCN16961.515	NC_002505	557823..557197	-	627	VC0523	Acyl-phosphate:glycerol-3-phosphate O-acyltra	ZZ gjo scratch	Phospholipids	Fatty Acids	557197	557823	ref000001	
529	VCN16961	VCN16961.516	NC_002505	557976..558365	+	390	VC0524	Dihydroneopterin aldolase (EC 4.1.2.25)	CBSS-235.1.peg.567	Folate and pterines	Cofactors,	557976	558365	ref000001	
530	VCN16961	VCN16961.517	NC_002505	558281..558868	+	588	VC0525	2-amino-4-hydroxy-6-hydroxymethyldihydropte	CBSS-235.1.peg.567	Folate and pterines	Cofactors,	558281	558868	ref000001	
531	VCN16961	VCN16961.518	NC_002505	558865..559668	+	804	VC0526	Undecaprenyl-diphosphatase (EC 3.6.1.27)				558865	559668	ref000001	
532	VCN16961	VCN16961.4116	NC_002505	559783..560067	+	285	VC0527	Cell division protein ftsB	Bacterial Cytoskeleton	Cell cycle in Prokaryota	Cell Divisic	559783	560067	ref000001	
533	VCN16961	VCN16961.520	NC_002505	560064..560762	+	699	VC0528	2-C-methyl-D-erythritol 4-phosphate cytidylyltra	Isoprenoid Biosynthesis	Isoprenoids	Cofactors,	560064	560762	ref000001	
534	VCN16961	VCN16961.521	NC_002505	560759..561235	+	477	VC0529	2-C-methyl-D-erythritol 2,4-cyclodiphosphate s	Isoprenoid Biosynthesis	Isoprenoids	Cofactors,	560759	561235	ref000001	
535	VCN16961	VCN16961.522	NC_002505	561265..562350	+	1086	VC0530	tRNA pseudouridine 13 synthase (EC 4.2.1.-)	tRNA modification E.coli	RNA processing and mod	RNA Metal	561265	562350	ref000001	
536	VCN16961	VCN16961.523	NC_002505	562313..563104	+	792	VC0531	5'-nucleotidase surE (EC 3.1.3.5)	Folate Biosynthesis	Folate and pterines	Cofactors,	562313	563104	ref000001	

537	VCN16961	VCN16961.524	NC_002505	563097..563723	+	627	VC0532	Protein-L-isoaspartate O-methyltransferase (EC	CBSS-221988.1.peg.2137	RNA processing and mod	RNA Metal	563097	563723	ref000001	
538	VCN16961	VCN16961.525	NC_002505	563723..564658	+	936	VC0533	Membrane protein				563723	564658	ref000001	
539	VCN16961	VCN16961.526	NC_002505	564732..565739	+	1008	VC0534	RNA polymerase sigma factor RpoS	Transcription initiation, bacterial sigma	Transcription	RNA Metal	564732	565739	ref000001	
540	VCN16961	VCN16961.527	NC_002505	568420..565832	-	2589	VC0535	DNA mismatch repair protein MutS	DNA repair, bacterial	DNA repair	DNA Metal	565832	568420	ref000001	
542	VCN16961	VCN16961.529	NC_002505	569575..568688	-	888	VC0537	Cysteine synthase B (EC 2.5.1.47)	Cysteine Biosynthesis	Lysine, threonine, methio	Amino Acid	568688	569575	ref000001	
543	VCN16961	VCN16961.530	NC_002505	569959..570960	+	1002	VC0538	Sulfate and thiosulfate binding protein cysP	Inorganic Sulfur Assimilation	Inorganic sulfur assimilati	Sulfur Meta	569959	570960	ref000001	
544	VCN16961	VCN16961.531	NC_002505	571037..571888	+	852	VC0539	Sulfate transport system permease protein cysT	Inorganic Sulfur Assimilation	Inorganic sulfur assimilati	Sulfur Meta	571037	571888	ref000001	
545	VCN16961	VCN16961.532	NC_002505	571899..572762	+	864	VC0540	Sulfate transport system permease protein cysW	Inorganic Sulfur Assimilation	Inorganic sulfur assimilati	Sulfur Meta	571899	572762	ref000001	
546	VCN16961	VCN16961.533	NC_002505	572759..573889	+	1131	VC0541	Sulfate and thiosulfate import ATP-binding prot	Inorganic Sulfur Assimilation	Inorganic sulfur assimilati	Sulfur Meta	572759	573889	ref000001	
547	VCN16961	VCN16961.534	NC_002505	574056..574562	+	507	VC0542	Similar to C-terminal domain of competence/da	Competence or DNA damage-inducible protein CinA and related protein fan			574056	574562	ref000001	
548	VCN16961	VCN16961.4271	NC_002505	574696..575760	+	1065	VC0543	RecA protein	Competence or DNA damage-inducibl	DNA repair	DNA Metal	574696	575760	ref000001	
549	VCN16961	VCN16961.536	NC_002505	575893..576351	+	459	VC0544	Regulatory protein recX	CBSS-261594.1.peg.788			575893	576351	ref000001	
550	VCN16961	VCN16961.537	NC_002505	576524..579106	+	2583	VC0545	Alanyl-tRNA synthetase (EC 6.1.1.7)	CBSS-281090.3.peg.464	Protein biosynthesis	Protein Me	576524	579106	ref000001	
556	VCN16961	VCN16961.543	NC_002505	584449..585579	+	1131	VC0551	Oxaloacetate decarboxylase beta chain (EC 4.	Pyruvate metabolism I: anaplerotic rea	Sodium Ion-Coupled Ener	Respiratior	584449	585579	ref000001	
561	VCN16961	VCN16961.548	NC_002505	590084..591658	+	1575	VC0556	Glutamate--cysteine ligase (EC 6.3.2.2)	Glutathione Redox Metabolism	Oxidative stress	Stress Res	590084	591658	ref000001	
562	VCN16961	VCN16961.549	NC_002505	591707..592225	+	519	VC0557	S-ribosylhomocysteine lyase (EC 4.4.1.21) / Au	Autoinducer 2 (AI-2) transport and pro	Lysine, threonine, methio	Amino Acid	591707	592225	ref000001	
564	VCN16961	VCN16961.3940	NC_002505	594452..593658	-	795	VC0559	ABC-type uncharacterized transport system, permease component				593658	594452	ref000001	
585	VCN16961	VCN16961.573	NC_002505	611572..609611	-	1962	VC0581	LppC putative lipoprotein	CBSS-160492.1.peg.550			609611	611572	ref000001	
586	VCN16961	VCN16961.574	NC_002505	611486..612352	+	867	VC0582	Tetrapyrrole (Corrin-Porphyrin) methylase fami	CBSS-160492.1.peg.550	Stress Response - no sub	Stress Res	611486	612352	ref000001	
587	VCN16961	VCN16961.3884	NC_002505	612862..612566	-	297	VC0583a	Quorum-sensing regulator of virulence HapR	Vibrio Polysaccharide (VPS) Biosynthe	Regulation of virulence	Virulence	612566	612862	ref000001	
590	VCN16961	VCN16961.576	NC_002505	613472..614005	+	534	VC0585	Hypoxanthine-guanine phosphoribosyltransfera	CBSS-281309.1.peg.50	Purines	Nucleoside	613472	614005	ref000001	
591	VCN16961	VCN16961.577	NC_002505	614748..614080	-	669	VC0586	Carbonic anhydrase (EC 4.2.1.1)	Zinc regulated enzymes			614080	614748	ref000001	
595	VCN16961	VCN16961.581	NC_002505	617849..618619	+	771	VC0590	ABC-type multidrug transport system, permeas	CBSS-196164.1.peg.1690			617849	618619	ref000001	
596	VCN16961	VCN16961.582	NC_002505	619564..618683	-	882	VC0591	Pantoate--beta-alanine ligase (EC 6.3.2.1)	Coenzyme A Biosynthesis	Coenzyme A	Cofactors,	618683	619564	ref000001	
597	VCN16961	VCN16961.583	NC_002505	620369..619575	-	795	VC0592	3-methyl-2-oxobutanoate hydroxymethyltransfe	Coenzyme A Biosynthesis	Coenzyme A	Cofactors,	619575	620369	ref000001	
602	VCN16961	VCN16961.4390	NC_002505	624604..623870	-	735	VC0597	Sugar/maltose fermentation stimulation protein	Fermentations: Mixed acid	Fermentation	Carbohydr	623870	624604	ref000001	
607	VCN16961	VCN16961.593	NC_002505	628761..631094	+	2334	VC0602	Multimodular transpeptidase-transglycosylase (	CBSS-316273.3.peg.227			628761	631094	ref000001	
614	VCN16961	VCN16961.3956	NC_002505	638930..639943	+	1014	VC0608	Ferric iron ABC transporter, iron-binding protei	Transport of Iron	Iron Scavenging Mechani	Virulence	638930	639943	ref000001	
616	VCN16961	VCN16961.600	NC_002505	641652..642683	+	1032	VC0610	Ferric iron ABC transporter, ATP-binding protei	Transport of Iron	Iron Scavenging Mechani	Virulence	641652	642683	ref000001	
617	VCN16961	VCN16961.601	NC_002505	644226..642814	-	1413	VC0611	GlcNAc phosphomutase (EC 5.4.2.3)	(GlcNAc)2 Catabolic Operon	Aminosugars	Carbohydr	642814	644226	ref000001	
618	VCN16961	VCN16961.602	NC_002505	646754..644349	-	2406	VC0612	Chitobiose phosphorylase (EC 2.4.1.-)	(GlcNAc)2 Catabolic Operon	Aminosugars	Carbohydr	644349	646754	ref000001	
619	VCN16961	VCN16961.603	NC_002505	648786..646873	-	1914	VC0613	Beta-hexosaminidase (EC 3.2.1.52)	Purine Utilization	Nucleosides and Nucleoti	Nucleoside	646873	648786	ref000001	
620	VCN16961	VCN16961.4324	NC_002505	649667..648783	-	885	VC0614	Glucosamine kinase GpsK (EC 2.7.1.8)	(GlcNAc)2 Catabolic Operon	Aminosugars	Carbohydr	648783	649667	ref000001	
621	VCN16961	VCN16961.605	NC_002505	651388..649664	-	1725	VC0615	Glucosamine-link cellobiase (EC 3.2.1.21)	(GlcNAc)2 Catabolic Operon	Aminosugars	Carbohydr	649664	651388	ref000001	
622	VCN16961	VCN16961.606	NC_002505	652440..651445	-	996	VC0616	(GlcNAc)2 ABC transporter, ATP-binding comp	(GlcNAc)2 Catabolic Operon	ABC transporters	Membrane	651445	652440	ref000001	
623	VCN16961	VCN16961.607	NC_002505	653466..652483	-	984	VC0617	(GlcNAc)2 ABC transporter, ATP-binding comp	(GlcNAc)2 Catabolic Operon	Aminosugars	Carbohydr	652483	653466	ref000001	
624	VCN16961	VCN16961.608	NC_002505	654494..653469	-	1026	VC0618	(GlcNAc)2 ABC transporter, permease compor	(GlcNAc)2 Catabolic Operon	Aminosugars	Carbohydr	653469	654494	ref000001	
625	VCN16961	VCN16961.609	NC_002505	655483..654497	-	987	VC0619	(GlcNAc)2 ABC transporter, permease compor	(GlcNAc)2 Catabolic Operon	Aminosugars	Carbohydr	654497	655483	ref000001	
626	VCN16961	VCN16961.610	NC_002505	657323..655653	-	1671	VC0620	(GlcNAc)2 ABC transporter, periplasmic substr	(GlcNAc)2 Catabolic Operon	ABC transporters	Membrane	655653	657323	ref000001	
627	VCN16961	VCN16961.4087	NC_002505	661623..658234	-	3390	VC0621	Chitin catabolic cascade sensor histidine kinas	(GlcNAc)2 Catabolic Operon	Aminosugars	Carbohydr	658234	661623	ref000001	
628	VCN16961	VCN16961.613	NC_002505	662853..661831	-	1023	VC0623	Ribosomal RNA small subunit methyltransferas	rRNA methylation in clusters			661831	662853	ref000001	
631	VCN16961	VCN16961.616	NC_002505	665563..664265	-	1299	VC0626	Glutamate-1-semialdehyde aminotransferase (	CBSS-196164.1.peg.461	Tetrapyrroles	Cofactors,	664265	665563	ref000001	
632	VCN16961	VCN16961.617	NC_002505	665847..666188	+	342	VC0627	probable iron binding protein from the HesB_Is	Iron-sulfur cluster assembly	Fe-S clusters	Cofactors,	665847	666188	ref000001	
633	VCN16961	VCN16961.618	NC_002505	666286..667386	+	1101	VC0628	Membrane-fusion protein				666286	667386	ref000001	
646	VCN16961	VCN16961.631	NC_002505	683351..683806	+	456	VC0641	COG0779: clustered with transcription terminat	Transcription factors bacterial	Transcription	RNA Metal	683351	683806	ref000001	
647	VCN16961	VCN16961.632	NC_002505	683825..685312	+	1488	VC0642	Transcription termination protein NusA	Transcription factors bacterial	Transcription	RNA Metal	683825	685312	ref000001	
650	VCN16961	VCN16961.635	NC_002505	688533..689471	+	939	VC0645	tRNA pseudouridine synthase B (EC 4.2.1.70)	CBSS-138119.3.peg.2719	RNA processing and mod	RNA Metal	688533	689471	ref000001	
651	VCN16961	VCN16961.636	NC_002505	689613..689882	+	270	VC0646	SSU ribosomal protein S15p (S13e)	EGS prediction	Protein biosynthesis	Protein Me	689613	689882	ref000001	
652	VCN16961	VCN16961.637	NC_002505	690245..692374	+	2130	VC0647	Polyribonucleotide nucleotidyltransferase (EC 2	Polyadenylation bacterial	RNA processing and mod	RNA Metal	690245	692374	ref000001	
653	VCN16961	VCN16961.638	NC_002505	692490..693401	+	912	VC0648	Lipoprotein NlpI				692490	693401	ref000001	
654	VCN16961	VCN16961.4353	NC_002505	693500..693907	+	408	VC0649	transcriptional regulator, MarR family				693500	693907	ref000001	
655	VCN16961	VCN16961.640	NC_002505	693954..695291	+	1338	VC0650	Multi antimicrobial extrusion protein (Na(+)/dru	Multidrug Resistance Efflux Pumps	Resistance to antibiotics a	Virulence	693954	695291	ref000001	
656	VCN16961	VCN16961.641	NC_002505	696309..695344	-	966	VC0651	Putative protease				695344	696309	ref000001	
657	VCN16961	VCN16961.642	NC_002505	697247..696234	-	1014	VC0652	Putative protease				696234	697247	ref000001	
659	VCN16961	VCN16961.644	NC_002505	699642..700169	+	528	VC0654	Putative lipid carrier protein				699642	700169	ref000001	
660	VCN16961	VCN16961.4224	NC_002505	700153..700656	+	504	VC0655	Acetyltransferase (EC 2.3.1.-)				700153	700656	ref000001	
662	VCN16961	VCN16961.4140	NC_002505	701171..701620	+	450	VC0657	Ribosomal-protein-S18p-alanine acetyltransfer	Ribosome biogenesis bacterial	Protein biosynthesis	Protein Me	701171	701620	ref000001	
663	VCN16961	VCN16961.648	NC_002505	703666..701609	-	2058	VC0658	C-di-GMP phosphodiesterase A-related protein				701609	703666	ref000001	
664	VCN16961	VCN16961.4261	NC_002505	703876..705465	+	1590	VC0659	Peptide chain release factor 3	rRNA methylation in clusters	Protein biosynthesis	Protein Me	703876	705465	ref000001	
665	VCN16961	VCN16961.650	NC_002505	706858..705587	-	1272	VC0660	ATP-dependent RNA helicase SrmB	ATP-dependent RNA helicases, bacte	RNA processing and mod	RNA Metal	705587	706858	ref000001	
666	VCN16961	VCN16961.651	NC_002505	707668..706946	-	723	VC0661	COG4123: Predicted O-methyltransferase	tRNA modification E.coli	Stress Response - no sub	Stress Res	706946	707668	ref000001	
667	VCN16961	VCN16961.652	NC_002505	707977..709290	+	1314	VC0662	Branched-chain amino acid transport system carrier protein				707977	709290	ref000001	
671	VCN16961	VCN16961.654	NC_002505	710583..712121	+	1539	VC0664	Lysyl-tRNA synthetase (class II) (EC 6.1.1.6)	tRNA aminoacylation	Protein biosynthesis	Protein Me	710583	712121	ref000001	
672	VCN16961	VCN16961.655	NC_002505	712395..713729	+	1335	VC0665	Transcriptional regulator VpsR	Vibrio Polysaccharide (VPS) Biosynthe	Regulation of virulence	Virulence	712395	713729	ref000001	
674	VCN16961	VCN16961.3988	NC_002505	715630..714596	-	1035	VC0667	Oxidoreductase Tas, aldo/keto reductase family				714596	715630	ref000001	
675	VCN16961	VCN16961.658	NC_002505	716512..715847	-	666	VC0668	DNA mismatch repair endonuclease MutH	DNA repair, bacterial	DNA repair	DNA Metal	715847	716512	ref000001	
682	VCN16961	VCN16961.665	NC_002505	721568..722419	+	852	VC0675	Thymidylate synthase (EC 2.1.1.45)	Folate Biosynthesis	Folate and pterines	Cofactors,	721568	722419	ref000001	
683	VCN16961	VCN16961.666	NC_002505	723660..722512	-	1149	VC0676	Sodium-dependent phosphate transporter	Phosphate metabolism	Phosphorus Metabolism -	Phosphoru	722512	723660	ref000001	
688	VCN16961	VCN16961.671	NC_002505	727688..728656	+	969	VC0681	Riboflavin kinase (EC 2.7.1.26) / FMN adenylyl	Glutaredoxins	Riboflavin, FMN, FAD	Cofactors,	727688	728656	ref000001	
689	VCN16961	VCN16961.672	NC_002505	728687..731536	+	2850	VC0682	Isoleucyl-tRNA synthetase (EC 6.1.1.5)	tRNA aminoacylation	Protein biosynthesis	Protein Me	728687	731536	ref000001	
690	VCN16961	VCN16961.673	NC_002505	731552..732067	+	516	VC0683	Lipoprotein signal peptidase (EC 3.4.23.36)	Lipoprotein Biosynthesis	Protein processing and m	Protein Me	731552	732067	ref000001	
694	VCN16961	VCN16961.677	NC_002505	735282..733798	-	1485	VC0687	Carbon starvation protein A	CobW			733798	735282	ref000001	
697	VCN16961	VCN16961.680	NC_002505	738638..737715	-	924	VC0690	Glucokinase regulatory protein				737715	738638	ref000001	
698	VCN16961	VCN16961.681	NC_002505	739768..738656	-	1113	VC0691	Predicted molecular chaperone				738656	739768	ref000001	
699	VCN16961	VCN16961.682	NC_002505	739874..740866	+	993	VC0692	Beta-glucosidase-related glycosidases				739874	740866	ref000001	

701	VCN16961	VCN16961.684	NC_002505	743292..741616	-	1677	VC0694	Autolysin sensor kinase (EC 2.7.3.-)	Two-component sensor regulator linked to Carbon Starvation Protein A				741616	743292	ref000001
702	VCN16961	VCN16961.685	NC_002505	743534..744607	+	1074	VC0695	2-keto-3-deoxy-D-arabino-heptulosonate-7-phc	Common Pathway For Synthesis of Ar	Aromatic amino acids and	Amino Acid		743534	744607	ref000001
703	VCN16961	VCN16961.686	NC_002505	744620..745747	+	1128	VC0696	Chorismate mutase I (EC 5.4.99.5) / Cyclohexa	Phenylalanine and Tyrosine Branches	Aromatic amino acids and	Amino Acid		744620	745747	ref000001
705	VCN16961	VCN16961.688	NC_002505	748023..746356	-	1668	VC0698	ABC transporter, ATP-binding protein					746356	748023	ref000001
707	VCN16961	VCN16961.690	NC_002505	748385..750331	+	1947	VC0700	Soluble lytic murein transglycosylase					748385	750331	ref000001
708	VCN16961	VCN16961.3970	NC_002505	750386..750697	+	312	VC0701	Trp operon repressor homolog					750386	750697	ref000001
710	VCN16961	VCN16961.693	NC_002505	753622..751247	-	2376	VC0703	C-di-GMP phosphodiesterase MbaA, repressor	Biofilm formation in Vibrio				751247	753622	ref000001
711	VCN16961	VCN16961.694	NC_002505	754685..753606	-	1080	VC0704	Predicted polyamine sensor NspS, involved in I	Biofilm formation in Vibrio	Arginine; urea cycle, poly	Amino Acid		753606	754685	ref000001
712	VCN16961	VCN16961.695	NC_002505	756003..754828	-	1176	VC0705	Chorismate mutase I (EC 5.4.99.5) / Prephenat	Phenylalanine and Tyrosine Branches	Aromatic amino acids and	Amino Acid		754828	756003	ref000001
713	VCN16961	VCN16961.696	NC_002505	756569..756243	-	327	VC0706	Ribosome hibernation protein YfiA	Ribosome activity modulation	Protein biosynthesis	Protein Me		756243	756569	ref000001
715	VCN16961	VCN16961.4348	NC_002505	757696..756971	-	726	VC0708	Probable component of the lipoprotein assemb	Lipopolysaccharide assembly	Gram-Negative cell wall c	Cell Wall a		756971	757696	ref000001
722	VCN16961	VCN16961.705	NC_002505	768551..769273	+	723	VC0715	NADPH-flavin oxidoreductase					768551	769273	ref000001
723	VCN16961	VCN16961.706	NC_002505	769562..769308	-	255	VC0716	4Fe-4S ferredoxin, iron-sulfur binding	YgfZ-Fe-S clustering				769308	769562	ref000001
724	VCN16961	VCN16961.707	NC_002505	770965..769565	-	1401	VC0717	Putative protease					769565	770965	ref000001
726	VCN16961	VCN16961.709	NC_002505	772267..772956	+	690	VC0719	Phosphate regulon transcriptional regulatory pr	Phosphate metabolism	Phosphorus Metabolism -	Phosphoru		772267	772956	ref000001
727	VCN16961	VCN16961.710	NC_002505	772978..774279	+	1302	VC0720	Phosphate regulon sensor protein phoR (EC 2.	Phosphate metabolism	Phosphorus Metabolism -	Phosphoru		772978	774279	ref000001
729	VCN16961	VCN16961.3946	NC_002505	776823..775321	-	1503	VC0722	Exopolyphosphatase (EC 3.6.1.11)	Phosphate metabolism	Phosphorus Metabolism -	Phosphoru		775321	776823	ref000001
730	VCN16961	VCN16961.713	NC_002505	778909..776804	-	2106	VC0723	Polyphosphate kinase (EC 2.7.4.1)	Phosphate metabolism	Purines	Nucleoside		776804	778909	ref000001
731	VCN16961	VCN16961.714	NC_002505	779108..781303	+	2196	VC0724	Phosphate transport system permease protein	Phosphate metabolism	Phosphorus Metabolism -	Phosphoru		779108	781303	ref000001
732	VCN16961	VCN16961.715	NC_002505	781313..782959	+	1647	VC0725	Phosphate transport system permease protein	Phosphate metabolism	Phosphorus Metabolism -	Phosphoru		781313	782959	ref000001
733	VCN16961	VCN16961.716	NC_002505	782962..783783	+	822	VC0726	Phosphate transport ATP-binding protein pstB	Phosphate metabolism	Phosphorus Metabolism -	Phosphoru		782962	783783	ref000001
734	VCN16961	VCN16961.717	NC_002505	783817..784527	+	711	VC0727	Phosphate transport system regulatory protein	Phosphate metabolism	Phosphorus Metabolism -	Phosphoru		783817	784527	ref000001
737	VCN16961	VCN16961.720	NC_002505	786331..785567	-	765	VC0730	Cytoplasmic copper homeostasis protein cutC	Copper homeostasis: copper toleranc	Stress Response - no sub	Stress Res		785567	786331	ref000001
738	VCN16961	VCN16961.3932	NC_002505	787271..786666	-	606	VC0731	Alkyl hydroperoxide reductase subunit C-like pr	Oxidative stress	Oxidative stress	Stress Res		786666	787271	ref000001
739	VCN16961	VCN16961.722	NC_002505	787493..788398	+	906	VC0732	Transcriptional regulator, LysR family					787493	788398	ref000001
741	VCN16961	VCN16961.4364	NC_002505	788982..790619	+	1638	VC0734	Malate synthase (EC 2.3.3.9)	Serine-glyoxylate cycle	Central carbohydrate met	Carbohydr		788982	790619	ref000001
743	VCN16961	VCN16961.726	NC_002505	790749..792062	+	1314	VC0736	Isocitrate lyase (EC 4.1.3.1)	Serine-glyoxylate cycle	Central carbohydrate met	Carbohydr		790749	792062	ref000001
744	VCN16961	VCN16961.4174	NC_002505	792664..792215	-	450	VC0737	Putative acetoin utilization protein AcuB					792215	792664	ref000001
746	VCN16961	VCN16961.729	NC_002505	792954..794012	+	1059	VC0739	S-adenosylmethionine:tRNA ribosyltransferase	tRNA modification E.coli	RNA processing and mod	RNA Metal		792954	794012	ref000001
749	VCN16961	VCN16961.732	NC_002505	795485..795817	+	333	VC0742	Preprotein translocase subunit YajC (TC 3.A.5.	General secretory pathway (Sec-SRP)	Secretion	Protein Me		795485	795817	ref000001
750	VCN16961	VCN16961.733	NC_002505	795839..797692	+	1854	VC0743	Protein-export membrane protein secD (TC 3.A	General secretory pathway (Sec-SRP)	Secretion	Protein Me		795839	797692	ref000001
752	VCN16961	VCN16961.4123	NC_002505	799625..798822	-	804	VC0745	Myo-inositol-1(or 4)-monophosphatase (EC 3.1	Flavohaemoglobin	Stress Response - no sub	Stress Res		798822	799625	ref000001
754	VCN16961	VCN16961.4036	NC_002505	800653..801174	+	522	VC0747	Iron-sulfur cluster regulator IscR	Iron-sulfur cluster assembly	Fe-S clusters	Cofactors,		800653	801174	ref000001
755	VCN16961	VCN16961.738	NC_002505	801201..802415	+	1215	VC0748	Cysteine desulfurase (EC 2.8.1.7)	Alanine biosynthesis	Fe-S clusters	Cofactors,		801201	802415	ref000001
756	VCN16961	VCN16961.739	NC_002505	802452..802835	+	384	VC0749	Iron-sulfur cluster assembly scaffold protein Isc	Iron-sulfur cluster assembly	Fe-S clusters	Cofactors,		802452	802835	ref000001
757	VCN16961	VCN16961.740	NC_002505	802896..803219	+	324	VC0750	Iron binding protein IscA for iron-sulfur cluster a	Iron-sulfur cluster assembly	Fe-S clusters	Cofactors,		802896	803219	ref000001
758	VCN16961	VCN16961.741	NC_002505	803268..803783	+	516	VC0751	Chaperone protein HscB	Iron-sulfur cluster assembly	Fe-S clusters	Cofactors,		803268	803783	ref000001
759	VCN16961	VCN16961.742	NC_002505	803807..805657	+	1851	VC0752	Chaperone protein HscA	Iron-sulfur cluster assembly	Fe-S clusters	Cofactors,		803807	805657	ref000001
760	VCN16961	VCN16961.4344	NC_002505	805671..806009	+	339	VC0753	Ferredoxin, 2Fe-2S	Iron-sulfur cluster assembly	Fe-S clusters	Cofactors,		805671	806009	ref000001
762	VCN16961	VCN16961.4263	NC_002505	806472..807761	+	1290	VC0755	Peptidase B (EC 3.4.11.23)	Protein degradation	Protein degradation	Protein Me		806472	807761	ref000001
763	VCN16961	VCN16961.746	NC_002505	807964..808392	+	429	VC0756	Nucleoside diphosphate kinase (EC 2.7.4.6)	pyrimidine conversions v2	Pyrimidines	Nucleoside		807964	808392	ref000001
764	VCN16961	VCN16961.747	NC_002505	808566..809687	+	1122	VC0757	Ribosomal RNA large subunit methyltransferas	Conserved gene cluster associated with Met-tRNA formyltransferase				808566	809687	ref000001
766	VCN16961	VCN16961.749	NC_002505	811088..812218	+	1131	VC0759	1-hydroxy-2-methyl-2-(E)-butenyl 4-diphosphat	CBSS-83331.1.peg.3039	Isoprenoids	Cofactors,		811088	812218	ref000001
767	VCN16961	VCN16961.750	NC_002505	812244..813512	+	1269	VC0760	Histidyl-tRNA synthetase (EC 6.1.1.21)	EGS prediction	Protein biosynthesis	Protein Me		812244	813512	ref000001
769	VCN16961	VCN16961.752	NC_002505	814176..815336	+	1161	VC0762	Outer membrane protein YfgL, lipoprotein com	CBSS-290633.1.peg.1906	Gram-Negative cell wall c	Cell Wall a		814176	815336	ref000001
770	VCN16961	VCN16961.753	NC_002505	815529..817013	+	1485	VC0763	GTP-binding protein EngA	CBSS-290633.1.peg.1906	Protein biosynthesis	Protein Me		815529	817013	ref000001
771	VCN16961	VCN16961.754	NC_002505	817034..817951	+	918	VC0764	Predicted metal-dependent hydrolase					817034	817951	ref000001
773	VCN16961	VCN16961.756	NC_002505	819810..818470	-	1341	VC0766	Exodeoxyribonuclease VII large subunit (EC 3.	DNA repair, bacterial	DNA repair	DNA Metal		818470	819810	ref000001
774	VCN16961	VCN16961.757	NC_002505	820012..821481	+	1470	VC0767	Inosine-5'-monophosphate dehydrogenase (EC	Purine conversions	Purines	Nucleoside		820012	821481	ref000001
775	VCN16961	VCN16961.758	NC_002505	821588..823141	+	1554	VC0768	GMP synthase [glutamine-hydrolyzing] (EC 6.3	Purine conversions	Purines	Nucleoside		821588	823141	ref000001
776	VCN16961	VCN16961.3937	NC_002505	823398..825101	+	1704	VC0769	Chitinase (EC 3.2.1.14)	Chitin and N-acetylglucosamine utiliza	Aminosugars	Carbohydr		823398	825101	ref000001
778	VCN16961	VCN16961.761	NC_002505	826197..827078	+	882	VC0771	Isochorismatase (EC 3.3.2.1) of siderophore bi	Siderophores of catechol family	Iron Scavenging Mechani	Virulence		826197	827078	ref000001
779	VCN16961	VCN16961.762	NC_002505	828810..827179	-	1632	VC0772	2,3-dihydroxybenzoate-AMP ligase (EC 2.7.7.5	Siderophores of catechol family	Iron Scavenging Mechani	Virulence		827179	828810	ref000001
780	VCN16961	VCN16961.763	NC_002505	830008..828821	-	1188	VC0773	Isochorismate synthase (EC 5.4.4.2) of siderop	Siderophores of catechol family	Iron Scavenging Mechani	Virulence		828821	830008	ref000001
781	VCN16961	VCN16961.764	NC_002505	830176..830964	+	789	VC0774	2,3-dihydro-2,3-dihydroxybenzoate dehydroger	Siderophores of catechol family	Iron Scavenging Mechani	Virulence		830176	830964	ref000001
782	VCN16961	VCN16961.765	NC_002505	832292..830976	-	1317	VC0775	Amide synthase component of siderophore syn	Siderophores of catechol family	Iron Scavenging Mechani	Virulence		830976	832292	ref000001
783	VCN16961	VCN16961.766	NC_002505	832470..833447	+	978	VC0776	Ferric vibriobactin, enterobactin transport syste	Iron acquisition in Vibrio	Iron Scavenging Mechani	Virulence		832470	833447	ref000001
784	VCN16961	VCN16961.767	NC_002505	833444..834496	+	1053	VC0777	Ferric vibriobactin, enterobactin transport syste	Iron acquisition in Vibrio	Iron Scavenging Mechani	Virulence		833444	834496	ref000001
785	VCN16961	VCN16961.768	NC_002505	834475..835551	+	1077	VC0778	Ferric vibriobactin, enterobactin transport syste	Iron acquisition in Vibrio	Iron Scavenging Mechani	Virulence		834475	835551	ref000001
786	VCN16961	VCN16961.769	NC_002505	835668..836507	+	840	VC0779	Ferric vibriobactin, enterobactin transport syste	Iron acquisition in Vibrio	Iron Scavenging Mechani	Virulence		835668	836507	ref000001
787	VCN16961	VCN16961.770	NC_002505	836438..837223	+	786	VC0780	Phosphopantetheinyl transferase component o	Iron acquisition in Vibrio	Iron Scavenging Mechani	Virulence		836438	837223	ref000001
791	VCN16961	VCN16961.774	NC_002505	841989..840439	-	1551	VC0784	Sodium/alanine symporter					840439	841989	ref000001
795	VCN16961	VCN16961.778	NC_002505	844790..845119	+	330	VC0788	Aromatic ring-cleaving dioxygenase					844790	845119	ref000001
797	VCN16961	VCN16961.780	NC_002505	846274..845591	-	684	VC0790	Transcriptional regulatory protein citB, dpiA	GJO regulatory system scratch	Regulation and Cell signa	Regulation		845591	846274	ref000001
798	VCN16961	VCN16961.781	NC_002505	847985..846288	-	1698	VC0791	Sensor kinase citA, dpiB (EC 2.7.3.-)	GJO regulatory system scratch	Regulation and Cell signa	Regulation		846288	847985	ref000001
799	VCN16961	VCN16961.782	NC_002505	849357..848056	-	1302	VC0792	Oxaloacetate decarboxylase beta chain (EC 4.	Pyruvate metabolism I: anaplerotic rea	Sodium Ion-Coupled Ener	Respiratior		848056	849357	ref000001
800	VCN16961	VCN16961.783	NC_002505	851171..849373	-	1799	VC0793m	Oxaloacetate decarboxylase alpha chain (EC 4	Pyruvate metabolism I: anaplerotic rea	Sodium Ion-Coupled Ener	Respiratior		849373	851171	ref000001
803	VCN16961	VCN16961.785	NC_002505	852903..851557	-	1347	VC0795	Na(+)Citrate OH(-) antiporter	Citrate Metabolism, Transport, and Re	Organic acids	Carbohydr		851557	852903	ref000001
804	VCN16961	VCN16961.786	NC_002505	853165..854235	+	1071	VC0796	[Citrate [pro-3S]-lyase] ligase (EC 6.2.1.22)	TCA Cycle	Central carbohydrate met	Carbohydr		853165	854235	ref000001
805	VCN16961	VCN16961.787	NC_002505	854287..854583	+	297	VC0797	citrate lyase, gamma subunit					854287	854583	ref000001
806	VCN16961	VCN16961.788	NC_002505	854565..855455	+	891	VC0798	Citrate lyase beta chain (EC 4.1.3.6)	TCA Cycle	Central carbohydrate met	Carbohydr		854565	855455	ref000001
807	VCN16961	VCN16961.789	NC_002505	855391..856995	+	1605	VC0799	Citrate lyase alpha chain (EC 4.1.3.6)	TCA Cycle	Central carbohydrate met	Carbohydr		855391	856995	ref000001
808	VCN16961	VCN16961.790	NC_002505	856992..857528	+	537	VC0800	Apo-citrate lyase phosphoribosyl-dephospho-CoA	transferase (EC 2.7.7.61)				856992	857528	ref000001
809	VCN16961	VCN16961.791	NC_002505	857506..858447	+	942	VC0801	Triphosphoribosyl-dephospho-CoA synthetase					857506	858447	ref000001
811	VCN16961	VCN16961.4089	NC_002505	859306..860040	+	735	VC0803	RNA methyltransferase, TrmH family	tRNA modification E.coli				859306	860040	ref000001

812	VCN16961	VCN16961.794	NC_002505	860542..860219	-	324	VC0804	4Fe-4S ferredoxin, iron-sulfur binding	YgfZ-Fe-S clustering				860219	860542	ref000001
857	VCN16961	VCN16961.836	NC_002505	915211..914726	-	486	VC0848	SsrA-binding protein	Competence or DNA damage-inducibl	Protein biosynthesis	Protein Me		914726	915211	ref000001
858	VCN16961	VCN16961.4186	NC_002505	915395..915829	+	435	VC0849	Putative oligoketide cyclase/lipid transport prot	Competence or DNA damage-inducible protein CinA and related protein fan				915395	915829	ref000001
859	VCN16961	VCN16961.838	NC_002505	915826..916137	+	312	VC0850	UPF0125 protein yfjF	Competence or DNA damage-inducible protein CinA and related protein fan				915826	916137	ref000001
860	VCN16961	VCN16961.4021	NC_002505	916574..916215	-	360	VC0851	Outer membrane lipoprotein SmpA, a compone	Lipopolysaccharide assembly	Gram-Negative cell wall c	Cell Wall a		916215	916574	ref000001
861	VCN16961	VCN16961.840	NC_002505	918397..916733	-	1665	VC0852	DNA repair protein RecN	rRNA methylation in clusters	DNA repair	DNA Metal		916733	918397	ref000001
862	VCN16961	VCN16961.841	NC_002505	919411..918527	-	885	VC0853	NAD kinase (EC 2.7.1.23)	NAD and NADP cofactor biosynthesis	NAD and NADP	Cofactors,		918527	919411	ref000001
864	VCN16961	VCN16961.843	NC_002505	920423..922330	+	1908	VC0855	Chaperone protein DnaK	Protein chaperones	Protein folding	Protein Me		920423	922330	ref000001
872	VCN16961	VCN16961.851	NC_002505	927382..928941	+	1560	VC0863	Putative p-aminobenzoyl-glutamate transporter					927382	928941	ref000001
873	VCN16961	VCN16961.852	NC_002505	929010..929591	+	582	VC0864	tRNA-specific adenosine-34 deaminase (EC 3.	tRNA modification E.coli	RNA processing and mod	RNA Metal		929010	929591	ref000001
875	VCN16961	VCN16961.854	NC_002505	931539..929947	-	1593	VC0866	Transglycosylase, Slt family					929947	931539	ref000001
878	VCN16961	VCN16961.857	NC_002505	931849..935742	+	3894	VC0869	Phosphoribosylformylglycinamidine synthase, s	De Novo Purine Biosynthesis	Purines	Nucleoside		931849	935742	ref000001
884	VCN16961	VCN16961.863	NC_002505	939569..937854	-	1716	VC0875	Prolyl-tRNA synthetase (EC 6.1.1.15)	tRNA aminoacylation	Protein biosynthesis	Protein Me		937854	939569	ref000001
899	VCN16961	VCN16961.878	NC_002505	950307..949423	-	885	VC0890	Octaprenyl-diphosphate synthase (EC 2.5.1.-)	Isoprenoid Biosynthesis	Isoprenoids	Cofactors,		949423	950307	ref000001
900	VCN16961	VCN16961.879	NC_002505	950591..950349	-	243	VC0891	Exodeoxyribonuclease VII small subunit (EC 3.	rRNA methylation in clusters	DNA repair	DNA Metal		950349	950591	ref000001
902	VCN16961	VCN16961.881	NC_002505	951682..952638	+	957	VC0893	Flagellar motor rotation protein motB	CBSS-323098.3.peg.2823	Flagellar motility in Proka	Motility and		951682	952638	ref000001
905	VCN16961	VCN16961.884	NC_002505	955014..955934	+	921	VC0896	Glycine cleavage system transcriptional activat	Orphan regulatory proteins	Regulation and Cell signa	Regulation		955014	955934	ref000001
906	VCN16961	VCN16961.885	NC_002505	955956..956342	+	387	VC0897	COG2363	COG2363				955956	956342	ref000001
907	VCN16961	VCN16961.4212	NC_002505	957151..956372	-	780	VC0898	Probable exodeoxyribonuclease IX (EC 3.1.11.-)					956372	957151	ref000001
909	VCN16961	VCN16961.4396	NC_002505	960405..958840	-	1566	VC0900	GGDEF domain family protein					958840	960405	ref000001
911	VCN16961	VCN16961.4360	NC_002505	963637..962792	-	846	VC0902	NADPH dependent preQ0 reductase	tRNA modification E.coli	RNA processing and mod	RNA Metal		962792	963637	ref000001
912	VCN16961	VCN16961.4097	NC_002505	963734..964282	+	549	VC0903	Syd protein					963734	964282	ref000001
913	VCN16961	VCN16961.892	NC_002505	964284..965060	+	777	VC0904	Zn-ribbon-containing, possibly nucleic-acid-binding protein					964284	965060	ref000001
915	VCN16961	VCN16961.894	NC_002505	966716..966039	-	678	VC0906	Methionine ABC transporter permease protein	Methionine Biosynthesis	Lysine, threonine, methio	Amino Acid		966039	966716	ref000001
916	VCN16961	VCN16961.895	NC_002505	967740..966706	-	1035	VC0907	Methionine ABC transporter ATP-binding prote	Methionine Biosynthesis	Lysine, threonine, methio	Amino Acid		966706	967740	ref000001
917	VCN16961	VCN16961.896	NC_002505	967976..968536	+	561	VC0908	D-glycero-D-manno-heptose 1,7-bisphosphate	Capsular heptose biosynthesis	Gram-Negative cell wall c	Cell Wall a		967976	968536	ref000001
918	VCN16961	VCN16961.897	NC_002505	968601..969551	+	951	VC0909	Trehalose operon transcriptional repressor	Trehalose Uptake and Utilization	Di- and oligosaccharides	Carbohydr		968601	969551	ref000001
920	VCN16961	VCN16961.899	NC_002505	971304..972992	+	1689	VC0911	Trehalose-6-phosphate hydrolase (EC 3.2.1.93	Trehalose Uptake and Utilization	Di- and oligosaccharides	Carbohydr		971304	972992	ref000001
922	VCN16961	VCN16961.901	NC_002505	974049..975107	+	1059	VC0913	Probable RND efflux membrane fusion protein	Acriflavin resistance cluster				974049	975107	ref000001
923	VCN16961	VCN16961.902	NC_002505	975107..978217	+	3111	VC0914	RND multidrug efflux transporter; Acriflavin resi	Acriflavin resistance cluster				975107	978217	ref000001
926	VCN16961	VCN16961.4104	NC_002505	979505..980575	+	1071	VC0917	UDP-N-acetylglucosamine 2-epimerase (EC 5.	Sialic Acid Metabolism	Capsular and extracellula	Cell Wall a		979505	980575	ref000001
927	VCN16961	VCN16961.906	NC_002505	980595..981836	+	1242	VC0918	UDP-N-acetyl-D-mannosaminuronate dehydro	Lipopolysaccharide biosynthesis 2	Regulation of virulence	Virulence		980595	981836	ref000001
929	VCN16961	VCN16961.908	NC_002505	982384..983532	+	1149	VC0920	exopolysaccharide biosynthesis protein EpsF,	Vibrio Polysaccharide (VPS) Biosynth	Regulation of virulence	Virulence		982384	983532	ref000001
933	VCN16961	VCN16961.912	NC_002505	986597..987937	+	1341	VC0924	CapK protein, putative	Vibrio Polysaccharide (VPS) Biosynth	Regulation of virulence	Virulence		986597	987937	ref000001
935	VCN16961	VCN16961.914	NC_002505	989007..990179	+	1173	VC0926	Hypothetical protein VpsJ	Vibrio Polysaccharide (VPS) Biosynth	Regulation of virulence	Virulence		989007	990179	ref000001
936	VCN16961	VCN16961.915	NC_002505	990169..990921	+	753	VC0927	N-acetylmannosaminyltransferase (EC 2.4.1.18	Vibrio Polysaccharide (VPS) Biosynth	Regulation of virulence	Virulence		990169	990921	ref000001
937	VCN16961	VCN16961.916	NC_002505	991117..991932	+	816	VC0928	RbmA protein	Vibrio Polysaccharide (VPS) Biosynth	Regulation of virulence	Virulence		991117	991932	ref000001
938	VCN16961	VCN16961.917	NC_002505	993364..992138	-	1227	VC0929	Hypothetical protein RbmB	Vibrio Polysaccharide (VPS) Biosynth	Regulation of virulence	Virulence		992138	993364	ref000001
939	VCN16961	VCN16961.918	NC_002505	993628..996501	+	2874	VC0930	Hemolysin-related protein RbmC	Vibrio Polysaccharide (VPS) Biosynth	Regulation of virulence	Virulence		993628	996501	ref000001
940	VCN16961	VCN16961.919	NC_002505	997972..996656	-	1317	VC0931	RbmD, similar to Lipid A core - O-antigen ligas	Vibrio Polysaccharide (VPS) Biosynth	Regulation of virulence	Virulence		996656	997972	ref000001
943	VCN16961	VCN16961.922	NC_002505	999242..1000639	+	1398	VC0934	Capsular polysaccharide synthesis enzyme cps	Exopolysaccharide Biosynthesis	Capsular and extracellula	Cell Wall a		999242	1000639	ref000001
944	VCN16961	VCN16961.923	NC_002505	1000710..1001906	+	1197	VC0935	Capsular polysaccharide synthesis enzyme cps	Exopolysaccharide Biosynthesis	Capsular and extracellula	Cell Wall a		1000710	1001906	ref000001
945	VCN16961	VCN16961.924	NC_002505	1001910..1002437	+	528	VC0936	Capsular polysaccharide synthesis enzyme cps	Exopolysaccharide Biosynthesis	Capsular and extracellula	Cell Wall a		1001910	1002437	ref000001
946	VCN16961	VCN16961.925	NC_002505	1002462..1004675	+	2214	VC0937	Capsular polysaccharide synthesis enzyme cps	Exopolysaccharide Biosynthesis	Capsular and extracellula	Cell Wall a		1002462	1004675	ref000001
953	VCN16961	VCN16961.4073	NC_002505	1010424..1009774	-	651	VC0944	Octanoate-[acyl-carrier-protein]-protein-N-octar	Lipoic acid metabolism	Lipoic acid	Cofactors,		1009774	1010424	ref000001
958	VCN16961	VCN16961.937	NC_002505	1014217..1013096	-	1122	VC0949	Rod shape-determining protein rodA	Bacterial Cytoskeleton	Cell cycle in Prokaryota	Cell Divisic		1013096	1014217	ref000001
960	VCN16961	VCN16961.939	NC_002505	1016607..1016137	-	471	VC0951	COG1576: Uncharacterized conserved protein	NAD and NADP cofactor biosynthesis	NAD and NADP	Cofactors,		1016137	1016607	ref000001
961	VCN16961	VCN16961.940	NC_002505	1016927..1016610	-	318	VC0952	COG0799: Uncharacterized homolog of plant I	NAD and NADP cofactor biosynthesis	NAD and NADP	Cofactors,		1016610	1016927	ref000001
962	VCN16961	VCN16961.941	NC_002505	1018024..1016996	-	1029	VC0953	DNA polymerase III delta subunit (EC 2.7.7.7)	DNA-replication	DNA replication	DNA Metal		1016996	1018024	ref000001
963	VCN16961	VCN16961.942	NC_002505	1018671..1018030	-	642	VC0954	LPS-assembly lipoprotein rlpB precursor (Rare	Lipopolysaccharide assembly	Gram-Negative cell wall c	Cell Wall a		1018030	1018671	ref000001
965	VCN16961	VCN16961.4366	NC_002505	1021397..1018821	-	2577	VC0956	Leucyl-tRNA synthetase (EC 6.1.1.4)	EGS prediction	Protein biosynthesis	Protein Me		1018821	1021397	ref000001
968	VCN16961	VCN16961.947	NC_002505	1024486..1023611	-	876	VC0959	Magnesium and cobalt efflux protein corC	CBSS-56780.10.peg.1536	Stress Response - no sut	Stress Res		1023611	1024486	ref000001
969	VCN16961	VCN16961.948	NC_002505	1025020..1024556	-	465	VC0960	predicted metal-dependent hydrolase	CBSS-56780.10.peg.1536	Phosphorus Metabolism -	Phosphoru		1024556	1025020	ref000001
970	VCN16961	VCN16961.949	NC_002505	1026120..1025017	-	1104	VC0961	Phosphate starvation-inducible protein PhoH, p	CBSS-56780.10.peg.1536	Phosphorus Metabolism -	Phosphoru		1025017	1026120	ref000001
985	VCN16961	VCN16961.964	NC_002505	1041733..1040813	-	921	VC0976	Putative stomatin/prohibitin-family membrane p	CBSS-316057.3.peg.659	Miscellaneous - no subca	Miscellane		1040813	1041733	ref000001
986	VCN16961	VCN16961.965	NC_002505	1043084..1042164	-	921	VC0977	COG3118: Thioredoxin domain-containing prot	Experimental tye				1042164	1043084	ref000001
988	VCN16961	VCN16961.967	NC_002505	1044274..1043447	-	828	VC0979	Oxidoreductase, short-chain dehydrogenase/reductase family					1043447	1044274	ref000001
989	VCN16961	VCN16961.3892	NC_002505	1045231..1044317	-	915	VC0980	Predicted nucleoside-diphosphate sugar epimerase					1044317	1045231	ref000001
991	VCN16961	VCN16961.969	NC_002505	1046568..1046275	-	294	VC0982	Selenoprotein W-related protein					1046275	1046568	ref000001
993	VCN16961	VCN16961.971	NC_002505	1048024..1047140	-	885	VC0984	Transcriptional activator ToxR	Cholera toxin	Toxins and superantigens	Virulence		1047140	1048024	ref000001
994	VCN16961	VCN16961.972	NC_002505	1048252..1050159	+	1908	VC0985	Chaperone protein HtpG	Protein chaperones	Protein folding	Protein Me		1048252	1050159	ref000001
995	VCN16961	VCN16961.973	NC_002505	1050494..1051138	+	645	VC0986	Adenylate kinase (EC 2.7.4.3)	Purine conversions	Purines	Nucleoside		1050494	1051138	ref000001
996	VCN16961	VCN16961.4114	NC_002505	1051265..1052227	+	963	VC0987	Ferrochelatase, protoheme ferro-lyase (EC 4.9	Experimental tye	Tetrapyrroles	Cofactors,		1051265	1052227	ref000001
997	VCN16961	VCN16961.975	NC_002505	1053871..1052327	-	1545	VC0988	proton/peptide symporter family protein					1052327	1053871	ref000001
1000	VCN16961	VCN16961.978	NC_002505	1056625..1054961	-	1665	VC0991	Asparagine synthetase [glutamine-hydrolyzing]	Glutamine, Glutamate, Aspartate and	Glutamine, glutamate, as	Amino Acid		1054961	1056625	ref000001
1001	VCN16961	VCN16961.979	NC_002505	1058407..1056821	-	1587	VC0992	putative Glutathione-regulated potassium-efflu	Glutathione-regulated potassium-efflu	Potassium metabolism - r	Potassium		1056821	1058407	ref000001
1002	VCN16961	VCN16961.980	NC_002505	1059716..1058502	-	1215	VC0993	N-acetylglucosamine-6P-responsive transcriptio	Chitin and N-acetylglucosamine utiliza	Aminosugars	Carbohydr		1058502	1059716	ref000001
1003	VCN16961	VCN16961.981	NC_002505	1060855..1059719	-	1137	VC0994	N-acetylglucosamine-6-phosphate deacetylase	Sialic Acid Metabolism	Capsular and extracellula	Cell Wall a		1059719	1060855	ref000001
1004	VCN16961	VCN16961.982	NC_002505	1061324..1062895	+	1572	VC0995	PTS system, N-acetylglucosamine-specific IIB	Sialic Acid Metabolism	Capsular and extracellula	Cell Wall a		1061324	1062895	ref000001
1006	VCN16961	VCN16961.984	NC_002505	1063143..1064813	+	1671	VC0997	Glutaminyl-tRNA synthetase (EC 6.1.1.18)	tRNA aminoacylation	Protein biosynthesis	Protein Me		1063143	1064813	ref000001
1008	VCN16961	VCN16961.986	NC_002505	1069965..1070759	+	795	VC0999	tRNA pseudouridine synthase A (EC 4.2.1.70)	tRNA modification E.coli	RNA processing and mod	RNA Metal		1069965	1070759	ref000001
1009	VCN16961	VCN16961.987	NC_002505	1070933..1071859	+	927	VC1000	Acetyl-coenzyme A carboxyl transferase beta c	Na+ translocating decarboxylases and	Sodium Ion-Coupled Ener	Respiratior		1070933	1071859	ref000001
1010	VCN16961	VCN16961.988	NC_002505	1071904..1073169	+	1266	VC1001	Dihydrofolate synthase (EC 6.3.2.12) / Folylpol	Folate Biosynthesis	Folate and pterines	Cofactors,		1071904	1073169	ref000001
1012	VCN16961	VCN16961.990	NC_002505	1073829..1074320	+	492	VC1003	Bacteriocin production protein					1073829	1074320	ref000001
1013	VCN16961	VCN16961.991	NC_002505	1074353..1075867	+	1515	VC1004	Amidophosphoribosyltransferase (EC 2.4.2.14)	De Novo Purine Biosynthesis	Purines	Nucleoside		1074353	1075867	ref000001

1025	VCN16961	VCN16961.1003	NC_002505	1086327..1085740	-	588	VC1016	Electron transport complex protein rnfB	Na(+)-translocating NADH-quinone ox	Electron donating reactior	Respiratior	1085740	1086327	ref000001	
1026	VCN16961	VCN16961.1004	NC_002505	1086968..1086327	-	642	VC1017	Electron transport complex protein rnfA	Na(+)-translocating NADH-quinone ox	Electron donating reactior	Respiratior	1086327	1086968	ref000001	
1029	VCN16961	VCN16961.3974	NC_002505	1090208..1091617	+	1410	VC1021	Regulatory protein luxO				1090208	1091617	ref000001	
1030	VCN16961	VCN16961.1008	NC_002505	1091621..1091962	+	342	VC1022	Phosphorelay protein luxU				1091621	1091962	ref000001	
1032	VCN16961	VCN16961.4293	NC_002505	1093147..1094136	+	990	VC1024	Molybdenum cofactor biosynthesis protein A	Iron-sulfur experimental	Folate and pterines	Cofactors,	1093147	1094136	ref000001	
1033	VCN16961	VCN16961.1011	NC_002505	1094196..1094708	+	513	VC1025	Molybdenum cofactor biosynthesis protein B	Molybdopterin experimental	Folate and pterines	Cofactors,	1094196	1094708	ref000001	
1034	VCN16961	VCN16961.4209	NC_002505	1094719..1095198	+	480	VC1026	Molybdenum cofactor biosynthesis protein C	Molybdopterin experimental	Folate and pterines	Cofactors,	1094719	1095198	ref000001	
1035	VCN16961	VCN16961.1013	NC_002505	1095195..1095440	+	246	VC1027	Molybdenum cofactor biosynthesis protein D; M	Molybdopterin experimental	Folate and pterines	Cofactors,	1095195	1095440	ref000001	
1036	VCN16961	VCN16961.1014	NC_002505	1095442..1095894	+	453	VC1028	Molybdenum cofactor biosynthesis protein E	Molybdopterin experimental	Folate and pterines	Cofactors,	1095442	1095894	ref000001	
1037	VCN16961	VCN16961.1015	NC_002505	1096883..1095909	-	975	VC1029	GGDEF family protein				1095909	1096883	ref000001	
1039	VCN16961	VCN16961.4376	NC_002505	1097112..1097528	+	417	VC1031	Inosine monophosphate dehydrogenase-related protein				1097112	1097528	ref000001	
1040	VCN16961	VCN16961.1019	NC_002505	1097641..1099947	+	2307	VC1033	Lead, cadmium, zinc and mercury transporting	Copper homeostasis	Electron accepting reactic	Respiratior	1097641	1099947	ref000001	
1041	VCN16961	VCN16961.4284	NC_002505	1100408..1101169	+	762	VC1034	Uridine phosphorylase (EC 2.4.2.3)	pyrimidine conversions v2	Pyrimidines	Nucleoside	1100408	1101169	ref000001	
1043	VCN16961	VCN16961.1022	NC_002505	1104556..1102361	-	2196	VC1036	Methionyl-tRNA synthetase (EC 6.1.1.10)	tRNA aminoacylation	Protein biosynthesis	Protein Me	1102361	1104556	ref000001	
1045	VCN16961	VCN16961.4294	NC_002505	1105823..1106464	+	642	VC1038	Uridine kinase (EC 2.7.1.48)	pyrimidine conversions v2	Pyrimidines	Nucleoside	1105823	1106464	ref000001	
1046	VCN16961	VCN16961.1025	NC_002505	1106562..1108673	+	2112	VC1039	AsmA protein				1106562	1108673	ref000001	
1048	VCN16961	VCN16961.1027	NC_002505	1109436..1109903	+	468	VC1041	Low molecular weight protein tyrosine phospha	CBSS-176279.3.peg.1389	Regulation of virulence	Virulence	1109436	1109903	ref000001	
1049	VCN16961	VCN16961.1028	NC_002505	1111228..1109930	-	1299	VC1042	Long-chain fatty acid transport protein	Fatty acid degradation regulons			1109930	1111228	ref000001	
1056	VCN16961	VCN16961.4138	NC_002505	1119956..1119081	-	876	VC1049	putative transcriptional regulator, LysR family				1119081	1119956	ref000001	
1057	VCN16961	VCN16961.1036	NC_002505	1120189..1121295	+	1107	VC1050	Response regulator				1120189	1121295	ref000001	
1060	VCN16961	VCN16961.1039	NC_002505	1122126..1122671	+	546	VC1053	Adenine phosphoribosyltransferase (EC 2.4.2.7	cAMP signaling in bacteria	Purines	Nucleoside	1122126	1122671	ref000001	
1068	VCN16961	VCN16961.1047	NC_002505	1129967..1128900	-	1068	VC1061	Cysteine synthase B (EC 2.5.1.47)	Cysteine Biosynthesis	Lysine, threonine, methior	Amino Acic	1128900	1129967	ref000001	
1069	VCN16961	VCN16961.4165	NC_002505	1130089..1130547	+	459	VC1062	Transcriptional regulator, AsnC family				1130089	1130547	ref000001	
1070	VCN16961	VCN16961.1049	NC_002505	1131416..1130556	-	861	VC1063	Acyl-CoA thioesterase II (EC 3.1.2.-)				1130556	1131416	ref000001	
1071	VCN16961	VCN16961.1050	NC_002505	1131567..1131998	+	432	VC1064	Lipoprotein-related protein				1131567	1131998	ref000001	
1072	VCN16961	VCN16961.1051	NC_002505	1132354..1132052	-	303	VC1065	Predicted methylated DNA-protein cysteine methyltransferase				1132052	1132354	ref000001	
1074	VCN16961	VCN16961.1053	NC_002505	1133235..1135316	+	2082	VC1067	FOG: GGDEF domain				1133235	1135316	ref000001	
1076	VCN16961	VCN16961.1055	NC_002505	1136296..1137297	+	1002	VC1069	NAD-dependent glyceraldehyde-3-phosphate d	Glutaredoxins	Pyridoxine	Cofactors,	1136296	1137297	ref000001	
1077	VCN16961	VCN16961.1056	NC_002505	1137311..1137808	+	498	VC1070	Protein tyrosine phosphatase (EC 3.1.3.48)				1137311	1137808	ref000001	
1078	VCN16961	VCN16961.4106	NC_002505	1137853..1139082	+	1230	VC1071	Permease of the major facilitator superfamily				1137853	1139082	ref000001	
1080	VCN16961	VCN16961.1059	NC_002505	1139646..1142912	+	3267	VC1073	Chitodextrinase precursor (EC 3.2.1.14)	Chitin and N-acetylglucosamine utiliza	Aminosugars	Carbohydr	1139646	1142912	ref000001	
1088	VCN16961	VCN16961.1067	NC_002505	1147856..1148998	+	1143	VC1081	response regulator				1147856	1148998	ref000001	
1090	VCN16961	VCN16961.1069	NC_002505	1149395..1149979	+	585	VC1083	Chemotaxis protein CheC -- inhibitor of MCP m	CBSS-323850.3.peg.3142	Motility and Chemotaxis -	Motility and	1149395	1149979	ref000001	
1091	VCN16961	VCN16961.1070	NC_002505	1149990..1151309	+	1320	VC1084	Sensor histidine kinase				1149990	1151309	ref000001	
1092	VCN16961	VCN16961.1071	NC_002505	1151321..1152625	+	1305	VC1085	Sensor histidine kinase				1151321	1152625	ref000001	
1093	VCN16961	VCN16961.1072	NC_002505	1152625..1154235	+	1611	VC1086	response regulator				1152625	1154235	ref000001	
1094	VCN16961	VCN16961.1073	NC_002505	1154252..1155595	+	1344	VC1087	response regulator				1154252	1155595	ref000001	
1095	VCN16961	VCN16961.1074	NC_002505	1157228..1155624	-	1605	VC1088	sensor histidine kinase				1155624	1157228	ref000001	
1098	VCN16961	VCN16961.1077	NC_002505	1158668..1160299	+	1632	VC1091	Oligopeptide ABC transporter, periplasmic olig	ABC transporter oligopeptide (TC 3.A.	ABC transporters	Membrane	1158668	1160299	ref000001	
1099	VCN16961	VCN16961.1078	NC_002505	1160448..1161368	+	921	VC1092	Oligopeptide transport system permease protei	ABC transporter oligopeptide (TC 3.A.	ABC transporters	Membrane	1160448	1161368	ref000001	
1100	VCN16961	VCN16961.1079	NC_002505	1161382..1162284	+	903	VC1093	Oligopeptide transport system permease protei	ABC transporter oligopeptide (TC 3.A.	ABC transporters	Membrane	1161382	1162284	ref000001	
1101	VCN16961	VCN16961.1080	NC_002505	1162309..1163283	+	975	VC1094	Oligopeptide transport ATP-binding protein opp	ABC transporter oligopeptide (TC 3.A.	ABC transporters	Membrane	1162309	1163283	ref000001	
1102	VCN16961	VCN16961.1081	NC_002505	1163262..1164272	+	1011	VC1095	Oligopeptide transport ATP-binding protein opp	ABC transporter oligopeptide (TC 3.A.	ABC transporters	Membrane	1163262	1164272	ref000001	
1104	VCN16961	VCN16961.1083	NC_002505	1167611..1165467	-	2145	VC1097	Phosphate acetyltransferase (EC 2.3.1.8)	Fermentations: Lactate	Central carbohydrate met	Carbohydr	1165467	1167611	ref000001	
1105	VCN16961	VCN16961.1084	NC_002505	1168943..1167747	-	1197	VC1098	Acetate kinase (EC 2.7.2.1)	CBSS-257314.1.peg.752	Central carbohydrate met	Carbohydr	1167747	1168943	ref000001	
1109	VCN16961	VCN16961.4060	NC_002505	1171799..1172743	+	945	VC1102	ABC-type uncharacterized transport system, permease component				1171799	1172743	ref000001	
1110	VCN16961	VCN16961.1089	NC_002505	1172740..1173534	+	795	VC1103	ABC transporter, ATP-binding protein				1172740	1173534	ref000001	
1111	VCN16961	VCN16961.1090	NC_002505	1173701..1175170	+	1470	VC1104	GGDEF family protein				1173701	1175170	ref000001	
1112	VCN16961	VCN16961.1091	NC_002505	1176174..1175203	-	972	VC1105	tRNA-dihydrouridine synthase C (EC 1.-.-.-)	tRNA modification E.coli	Cell cycle in Prokaryota	Cell Divisic	1175203	1176174	ref000001	
1113	VCN16961	VCN16961.1092	NC_002505	1176331..1176960	+	630	VC1106	Protein export cytoplasm protein SecA ATPase	CBSS-393121.3.peg.2760	Secretion	Protein Me	1176331	1176960	ref000001	
1114	VCN16961	VCN16961.1093	NC_002505	1177056..1177652	+	597	VC1107	Outer membrane lipoprotein carrier protein LolA	Lipopolysaccharide assembly	Gram-Negative cell wall c	Cell Wall a	1177056	1177652	ref000001	
1115	VCN16961	VCN16961.1094	NC_002505	1177677..1179026	+	1350	VC1108	ATPase, AAA family				1177677	1179026	ref000001	
1117	VCN16961	VCN16961.1096	NC_002505	1179130..1180437	+	1308	VC1110	Seryl-tRNA synthetase (EC 6.1.1.11)	CBSS-326442.4.peg.1852	Protein biosynthesis	Protein Me	1179130	1180437	ref000001	
1126	VCN16961	VCN16961.1105	NC_002505	1187655..1188380	+	726	VC1119	Oxidoreductase, short-chain dehydrogenase/re	ductase family			1187655	1188380	ref000001	
1127	VCN16961	VCN16961.4094	NC_002505	1188394..1189671	+	1278	VC1120	amine oxidase, flavin-containing				1188394	1189671	ref000001	
1129	VCN16961	VCN16961.3958	NC_002505	1190470..1191711	+	1242	VC1122	Cyclopropane-fatty-acyl-phospholipid synthase				1190470	1191711	ref000001	
1133	VCN16961	VCN16961.1112	NC_002505	1194737..1193367	-	1371	VC1126	Adenylosuccinate lyase (EC 4.3.2.2)	Purine conversions	Purines	Nucleoside	1193367	1194737	ref000001	
1135	VCN16961	VCN16961.1114	NC_002505	1196553..1195435	-	1119	VC1128	tRNA (5-methylaminomethyl-2-thiouridylate)-m	tRNA modification E.coli			1195435	1196553	ref000001	
1136	VCN16961	VCN16961.1115	NC_002505	1196815..1198119	+	1305	VC1129	Inosine-guanosine kinase (EC 2.7.1.73)	Purine conversions	Purines	Nucleoside	1196815	1198119	ref000001	
1137	VCN16961	VCN16961.1116	NC_002505	1198580..1198167	-	414	VC1130	DNA-binding protein H-NS				1198167	1198580	ref000001	
1139	VCN16961	VCN16961.1118	NC_002505	1201260..1202174	+	915	VC1132	ATP phosphoribosyltransferase (EC 2.4.2.17)	Histidine Biosynthesis	Histidine Metabolism	Amino Acic	1201260	1202174	ref000001	
1140	VCN16961	VCN16961.1119	NC_002505	1202179..1203474	+	1296	VC1133	Histidinol dehydrogenase (EC 1.1.1.23)	Histidine Biosynthesis	Histidine Metabolism	Amino Acic	1202179	1203474	ref000001	
1141	VCN16961	VCN16961.1120	NC_002505	1203478..1204518	+	1041	VC1134	Histidinol-phosphate aminotransferase (EC 2.6	Homogentisate pathway of aromatic c	Metabolism of central aro	Metabolism	1203478	1204518	ref000001	
1142	VCN16961	VCN16961.1121	NC_002505	1204570..1205643	+	1074	VC1135	Histidinol-phosphatase (EC 3.1.3.15) / Imidazo	Histidine Biosynthesis	Histidine Metabolism	Amino Acic	1204570	1205643	ref000001	
1143	VCN16961	VCN16961.1122	NC_002505	1205643..1206254	+	612	VC1136	Imidazole glycerol phosphate synthase amidotr	Histidine Biosynthesis	Histidine Metabolism	Amino Acic	1205643	1206254	ref000001	
1144	VCN16961	VCN16961.1123	NC_002505	1206297..1207034	+	738	VC1137	Phosphoribosylformimino-5-aminoimidazole ca	Histidine Biosynthesis	Histidine Metabolism	Amino Acic	1206297	1207034	ref000001	
1145	VCN16961	VCN16961.1124	NC_002505	1207016..1207789	+	774	VC1138	Imidazole glycerol phosphate synthase cyclase	Histidine Biosynthesis	Histidine Metabolism	Amino Acic	1207016	1207789	ref000001	
1146	VCN16961	VCN16961.1125	NC_002505	1207786..1208418	+	633	VC1139	Phosphoribosyl-AMP cyclohydrolase (EC 3.5.4	Histidine Biosynthesis	Histidine Metabolism	Amino Acic	1207786	1208418	ref000001	
1147	VCN16961	VCN16961.4411	NC_002505	1209344..1208619	-	726	VC1140	Ribosomal large subunit pseudouridine synthase E (EC 5.4.99.-)				1208619	1209344	ref000001	
1148	VCN16961	VCN16961.1127	NC_002505	1209652..1211877	+	2226	VC1141	Isocitrate dehydrogenase [NADP] (EC 1.1.1.42	TCA Cycle	Central carbohydrate met	Carbohydr	1209652	1211877	ref000001	
1150	VCN16961	VCN16961.1129	NC_002505	1212670..1212990	+	321	VC1143	ATP-dependent Clp protease adaptor protein c	Proteolysis in bacteria, ATP-depender	Protein degradation	Protein Me	1212670	1212990	ref000001	
1151	VCN16961	VCN16961.1130	NC_002505	1213029..1215299	+	2271	VC1144	ATP-dependent Clp protease ATP-binding sub	CBSS-176299.4.peg.1996	Protein degradation	Protein Me	1213029	1215299	ref000001	
1152	VCN16961	VCN16961.1131	NC_002505	1217044..1215368	-	1677	VC1145	TrkA, Potassium channel-family protein	Glutaredoxins	Regulation and Cell signa	Regulation	1215368	1217044	ref000001	
1153	VCN16961	VCN16961.4007	NC_002505	1217509..1217246	-	264	VC1146	Glutaredoxin 1	Glutaredoxins	Regulation and Cell signa	Regulation	1217246	1217509	ref000001	
1154	VCN16961	VCN16961.4377	NC_002505	1217818..1219065	+	1248	VC1147	Iron-containing alcohol dehydrogenase (EC 1.1.1.1)				1217818	1219065	ref000001	

1155	VCN16961	VCN16961.1134	NC_002505	1220010..1219156	-	855	VC1148	Glucose repressor HexR forf Entner-Doudoroff pathway, RpiR family				1219156	1220010	ref000001
1156	VCN16961	VCN16961.1135	NC_002505	1221964..1220318	-	1647	VC1149	Glutamate decarboxylase (EC 4.1.1.15)	Acid resistance mechanisms			1220318	1221964	ref000001
1158	VCN16961	VCN16961.1137	NC_002505	1223677..1222772	-	906	VC1151	membrane protein				1222772	1223677	ref000001
1159	VCN16961	VCN16961.4067	NC_002505	1224618..1223698	-	921	VC1152	Predicted signal transduction protein	Motility of Campylobacter	Flagellar motility in Proka	Motility and	1223698	1224618	ref000001
1160	VCN16961	VCN16961.4132	NC_002505	1224990..1225583	+	594	VC1153	Regulator of competence-specific genes				1224990	1225583	ref000001
1162	VCN16961	VCN16961.4234	NC_002505	1226915..1226418	-	498	VC1155	Response regulator				1226418	1226915	ref000001
1176	VCN16961	VCN16961.1155	NC_002505	1243054..1242248	-	807	VC1169	Tryptophan synthase alpha chain (EC 4.2.1.20)	Tryptophan synthesis	Aromatic amino acids and	Amino Acid	1242248	1243054	ref000001
1177	VCN16961	VCN16961.1156	NC_002505	1244244..1243054	-	1191	VC1170	Tryptophan synthase beta chain (EC 4.2.1.20)	Tryptophan synthesis	Aromatic amino acids and	Amino Acid	1243054	1244244	ref000001
1178	VCN16961	VCN16961.1157	NC_002505	1245694..1244285	-	1410	VC1171	Indole-3-glycerol phosphate synthase (EC 4.1.1	Tryptophan synthesis	Aromatic amino acids and	Amino Acid	1244285	1245694	ref000001
1179	VCN16961	VCN16961.4408	NC_002505	1246698..1245700	-	999	VC1172	Anthranilate phosphoribosyltransferase (EC 2.4	Tryptophan synthesis	Aromatic amino acids and	Amino Acid	1245700	1246698	ref000001
1180	VCN16961	VCN16961.1159	NC_002505	1247330..1246719	-	612	VC1173	Anthranilate synthase, amidotransferase comp	Chorismate: Intermediate for synthesis	Virulence - no subcategor	Virulence	1246719	1247330	ref000001
1181	VCN16961	VCN16961.1160	NC_002505	1248898..1247327	-	1572	VC1174	Anthranilate synthase, aminase component (EC	Chorismate: Intermediate for synthesis	Virulence - no subcategor	Virulence	1247327	1248898	ref000001
1184	VCN16961	VCN16961.1163	NC_002505	1249234..1250106	+	873	VC1177	COG0613, Predicted metal-dependent phosph	tRNA modification E.coli			1249234	1250106	ref000001
1186	VCN16961	VCN16961.1165	NC_002505	1250862..1251827	+	966	VC1179	Ribosomal large subunit pseudouridine synthas	tRNA modification E.coli	RNA processing and mod	RNA Metal	1250862	1251827	ref000001
1187	VCN16961	VCN16961.1166	NC_002505	1253716..1251995	-	1722	VC1180	Transport ATP-binding protein cydC	Terminal cytochrome oxidases	Electron accepting reactic	Respiration	1251995	1253716	ref000001
1188	VCN16961	VCN16961.1167	NC_002505	1255496..1253709	-	1788	VC1181	Transport ATP-binding protein cydD	Terminal cytochrome oxidases	Electron accepting reactic	Respiration	1253709	1255496	ref000001
1189	VCN16961	VCN16961.1168	NC_002505	1256572..1255616	-	957	VC1182	Thioredoxin reductase (EC 1.8.1.9)	pyrimidine conversions v2	Pyrimidines	Nucleoside	1255616	1256572	ref000001
1191	VCN16961	VCN16961.4013	NC_002505	1257690..1258931	+	1242	VC1184	Cysteine desulfurase (EC 2.8.1.7)	Alanine biosynthesis	Fe-S clusters	Cofactors,	1257690	1258931	ref000001
1192	VCN16961	VCN16961.1171	NC_002505	1259189..1260520	+	1332	VC1185	GGDEF family protein				1259189	1260520	ref000001
1193	VCN16961	VCN16961.1172	NC_002505	1261385..1260621	-	765	VC1186	SanA protein				1260621	1261385	ref000001
1195	VCN16961	VCN16961.1174	NC_002505	1263496..1261730	-	1767	VC1188	NAD-dependent malic enzyme (EC 1.1.1.38)	Pyruvate metabolism I: anaplerotic rea	Central carbohydrate met	Carbohydr	1261730	1263496	ref000001
1197	VCN16961	VCN16961.4177	NC_002505	1265542..1264436	-	1107	VC1190	Phosphoribosylaminoimidazole-succinocarboxa	CBSS-251221.1.peg.1863	Purines	Nucleoside	1264436	1265542	ref000001
1198	VCN16961	VCN16961.1177	NC_002505	1266106..1265708	-	399	VC1191	Superfamily II DNA and RNA helicase				1265708	1266106	ref000001
1202	VCN16961	VCN16961.1181	NC_002505	1268519..1267848	-	672	VC1195	Outer membrane protein	CBSS-323850.3.peg.3284			1267848	1268519	ref000001
1205	VCN16961	VCN16961.4008	NC_002505	1270329..1273364	+	3036	VC1198	Fe-S protein, homolog of lactate dehydrogenas	Experimental tye			1270329	1273364	ref000001
1209	VCN16961	VCN16961.1188	NC_002505	1277826..1276291	-	1536	VC1202	Histidine ammonia-lyase (EC 4.3.1.3)	Histidine Degradation	Histidine Metabolism	Amino Acid	1276291	1277826	ref000001
1210	VCN16961	VCN16961.1189	NC_002505	1279535..1277838	-	1698	VC1203	Urocanate hydratase (EC 4.2.1.49)	Histidine Degradation	Histidine Metabolism	Amino Acid	1277838	1279535	ref000001
1218	VCN16961	VCN16961.1197	NC_002505	1285750..1287864	+	2115	VC1211	PTS system, cellobiose-specific IIC component				1285750	1287864	ref000001
1221	VCN16961	VCN16961.1200	NC_002505	1291219..1293051	+	1833	VC1214	Excinuclease ABC subunit C	DNA repair, UvrABC system	DNA repair	DNA Metal	1291219	1293051	ref000001
1238	VCN16961	VCN16961.1217	NC_002505	1305948..1305061	-	888	VC1231	Cytidine deaminase (EC 3.5.4.5)	tRNA modification E.coli	Pyrimidines	Nucleoside	1305061	1305948	ref000001
1239	VCN16961	VCN16961.1218	NC_002505	1306792..1306118	-	675	VC1232	lrgA-associated membrane protein LrgB	Murein hydrolase regulation and cell d	Cell cycle in Prokaryota	Cell Divisic	1306118	1306792	ref000001
1240	VCN16961	VCN16961.1219	NC_002505	1307172..1306783	-	390	VC1233	Antiholin-like protein LrgA	Murein hydrolase regulation and cell d	Cell cycle in Prokaryota	Cell Divisic	1306783	1307172	ref000001
1241	VCN16961	VCN16961.1220	NC_002505	1308613..1307189	-	1425	VC1234	Exodeoxyribonuclease I (EC 3.1.11.1)	DNA Repair Base Excision	DNA repair	DNA Metal	1307189	1308613	ref000001
1242	VCN16961	VCN16961.1221	NC_002505	1310174..1308759	-	1416	VC1235	Sodium/dicarboxylate symporter				1308759	1310174	ref000001
1243	VCN16961	VCN16961.1222	NC_002505	1310478..1310924	+	447	VC1236	Conserved domain frequently associated with	peptide methionine sulfoxide reductase			1310478	1310924	ref000001
1244	VCN16961	VCN16961.4385	NC_002505	1311535..1312560	+	1026	VC1237	Nicotinate-nucleotide--dimethylbenzimidazole p	Experimental tye	Tetrapyrroles	Cofactors,	1311535	1312560	ref000001
1245	VCN16961	VCN16961.1224	NC_002505	1312560..1313345	+	786	VC1238	Cobalamin synthase	Experimental tye	Tetrapyrroles	Cofactors,	1312560	1313345	ref000001
1246	VCN16961	VCN16961.1225	NC_002505	1313354..1313893	+	540	VC1239	Adenosylcobinamide-phosphate guanylyltransf	Coenzyme B12 biosynthesis	Tetrapyrroles	Cofactors,	1313354	1313893	ref000001
1247	VCN16961	VCN16961.1226	NC_002505	1313900..1314502	+	603	VC1240	Alpha-ribazole-5'-phosphate phosphatase (EC	Phosphoglycerate mutase protein fam	Tetrapyrroles	Cofactors,	1313900	1314502	ref000001
1249	VCN16961	VCN16961.1228	NC_002505	1314818..1315846	+	1029	VC1242	Succinylglutamate desuccinylase (EC 3.5.1.96)	Arginine and Ornithine Degradation	Arginine; urea cycle, poly	Amino Acid	1314818	1315846	ref000001
1251	VCN16961	VCN16961.1230	NC_002505	1315915..1316922	+	1008	VC1244	Vitamin B12 ABC transporter, permease component	BtuC	Tetrapyrroles	Cofactors,	1315915	1316922	ref000001
1255	VCN16961	VCN16961.1234	NC_002505	1320856..1319246	-	1611	VC1248	Methyl-accepting chemotaxis protein				1319246	1320856	ref000001
1256	VCN16961	VCN16961.1235	NC_002505	1321599..1321087	-	513	VC1249	Glycine cleavage system regulatory protein				1321087	1321599	ref000001
1257	VCN16961	VCN16961.4243	NC_002505	1322452..1321865	-	588	VC1250	Ubiquitin-protein ligase				1321865	1322452	ref000001
1259	VCN16961	VCN16961.1238	NC_002505	1322928..1324175	+	1248	VC1252	Competence/damage-inducible protein CinA	Competence or DNA damage-inducible protein CinA and related protein fan			1322928	1324175	ref000001
1264	VCN16961	VCN16961.4168	NC_002505	1329840..1329118	-	723	VC1257	Ubiquinone biosynthesis SAM-dependent O-me	Experimental-Ubiquinone Biosynthesis	Quinone cofactors	Cofactors,	1329118	1329840	ref000001
1270	VCN16961	VCN16961.4307	NC_002505	1337077..1337673	+	597	VC1263	GTP cyclohydrolase II (EC 3.5.4.25)	Riboflavin, FMN and FAD metabolism	Riboflavin, FMN, FAD	Cofactors,	1337077	1337673	ref000001
1271	VCN16961	VCN16961.4147	NC_002505	1337854..1339116	+	1263	VC1264	Iron-regulated protein A precursor	Transport of Iron			1337854	1339116	ref000001
1280	VCN16961	VCN16961.1259	NC_002505	1347537..1348742	+	1206	VC1273	Extracellular solute-binding protein				1347537	1348742	ref000001
1283	VCN16961	VCN16961.1262	NC_002505	1350777..1352132	+	1356	VC1276	Sensor histidine kinase				1350777	1352132	ref000001
1295	VCN16961	VCN16961.1274	NC_002505	1366207..1364570	-	1638	VC1288	Glucans biosynthesis protein G precursor	Synthesis of osmoregulated periplasmic glucans			1364570	1366207	ref000001
1296	VCN16961	VCN16961.4002	NC_002505	1366612..1368495	+	1884	VC1289	Methyl-accepting chemotaxis protein				1366612	1368495	ref000001
1303	VCN16961	VCN16961.1282	NC_002505	1375081..1375929	+	849	VC1296	Phosphomethylpyrimidine kinase (EC 2.7.4.7)	COG2363	Thiamine and thiamine py	Cofactors,	1375081	1375929	ref000001
1304	VCN16961	VCN16961.4180	NC_002505	1377395..1375995	-	1401	VC1297	Asparaginyl-tRNA synthetase (EC 6.1.1.22)	tRNA aminoacylation	RNA processing and mod	RNA Metal	1375995	1377395	ref000001
1308	VCN16961	VCN16961.1287	NC_002505	1382735..1381482	-	1254	VC1301	Serine transporter	Pyruvate Alanine Serine Interconversi	Alanine, serine, and glycir	Amino Acid	1381482	1382735	ref000001
1309	VCN16961	VCN16961.1288	NC_002505	1383648..1383034	-	615	VC1302	Hypothetical nudix hydrolase YeaB	CBSS-316057.3.peg.1294	Detoxification	Nucleoside	1383034	1383648	ref000001
1310	VCN16961	VCN16961.1289	NC_002505	1385221..1383845	-	1377	VC1303	Para-aminobenzoate synthase, aminase comp	Folate Biosynthesis	Folate and pterines	Cofactors,	1383845	1385221	ref000001
1311	VCN16961	VCN16961.1290	NC_002505	1385397..1386914	+	1518	VC1304	Fumarate hydratase class I, aerobic (EC 4.2.1.	TCA Cycle	Central carbohydrate met	Carbohydr	1385397	1386914	ref000001
1313	VCN16961	VCN16961.1292	NC_002505	1387473..1388846	+	1374	VC1306	Putative ATP-binding protein				1387473	1388846	ref000001
1315	VCN16961	VCN16961.1293	NC_002505	1389975..1391516	+	1542	VC1308	Transcriptional repressor protein TyrR # for Tyr	Phenylalanine and Tyrosine Branches	Aromatic amino acids and	Amino Acid	1389975	1391516	ref000001
1316	VCN16961	VCN16961.1294	NC_002505	1391516..1392091	+	576	VC1309	Ribosomal-protein-S5p-alanine acetyltransfera	Ribosome biogenesis bacterial	Protein biosynthesis	Protein Me	1391516	1392091	ref000001
1318	VCN16961	VCN16961.1296	NC_002505	1393605..1392727	-	879	VC1311	Integral membrane protein				1392727	1393605	ref000001
1319	VCN16961	VCN16961.4173	NC_002505	1394949..1393726	-	1224	VC1312	Alanine racemase (EC 5.1.1.1)	Alanine biosynthesis	Alanine, serine, and glycir	Amino Acid	1393726	1394949	ref000001
1320	VCN16961	VCN16961.1298	NC_002505	1396692..1395061	-	1632	VC1313	Methyl-accepting chemotaxis protein				1395061	1396692	ref000001
1323	VCN16961	VCN16961.1301	NC_002505	1399817..1400293	+	477	VC1316	Putative chemotaxis protein CheY				1399817	1400293	ref000001
1328	VCN16961	VCN16961.1306	NC_002505	1404753..1407824	+	3072	VC1321	Membrane carboxypeptidase (penicillin-binding protein)				1404753	1407824	ref000001
1334	VCN16961	VCN16961.1312	NC_002505	1410224..1411768	+	1545	VC1327	Galactose/methyl galactoside ABC transport sy	Lactose and Galactose Uptake and Ut	Di- and oligosaccharides	Carbohydr	1410224	1411768	ref000001
1335	VCN16961	VCN16961.1313	NC_002505	1411773..1412786	+	1014	VC1328	Galactose/methyl galactoside ABC transport sy	Lactose and Galactose Uptake and Ut	Di- and oligosaccharides	Carbohydr	1411773	1412786	ref000001
1337	VCN16961	VCN16961.1315	NC_002505	1414155..1414982	+	828	VC1330	probable lipoprotein YPO2292				1414155	1414982	ref000001
1339	VCN16961	VCN16961.1317	NC_002505	1416662..1415133	-	1530	VC1332	putative tricarboxylic transport TctA				1415133	1416662	ref000001
1341	VCN16961	VCN16961.1319	NC_002505	1418392..1417421	-	972	VC1334	Putative tricarboxylic transport TctC	CBSS-49338.1.peg.459			1417421	1418392	ref000001
1342	VCN16961	VCN16961.1320	NC_002505	1419022..1419729	+	708	VC1335	Propionate catabolism operon transcriptional re	Propionate-CoA to Succinate Module	Organic acids	Carbohydr	1419022	1419729	ref000001
1343	VCN16961	VCN16961.4351	NC_002505	1419740..1420636	+	897	VC1336	Methylisocitrate lyase (EC 4.1.3.30)	Propionate-CoA to Succinate Module	Organic acids	Carbohydr	1419740	1420636	ref000001
1344	VCN16961	VCN16961.1322	NC_002505	1420812..1421945	+	1134	VC1337	2-methylcitrate synthase (EC 2.3.3.5)	Propionate-CoA to Succinate Module	Organic acids	Carbohydr	1420812	1421945	ref000001
1345	VCN16961	VCN16961.1323	NC_002505	1422041..1424647	+	2607	VC1338	2-methylcitrate dehydratase FeS dependent (E	Propionate-CoA to Succinate Module	Organic acids	Carbohydr	1422041	1424647	ref000001

1346	VCN16961	VCN16961.1324	NC_002505	1424656..1425858	+	1203	VC1339	PrpF protein involved in 2-methylcitrate cycle	Propionate-CoA to Succinate Module	Organic acids	Carbohydr	1424656	1425858	ref000001
1349	VCN16961	VCN16961.1327	NC_002505	1428471..1429868	+	1398	VC1342	Membrane-associated phospholipid phosphatase				1428471	1429868	ref000001
1350	VCN16961	VCN16961.1328	NC_002505	1431040..1429934	-	1107	VC1343	Peptidase, M20A family				1429934	1431040	ref000001
1352	VCN16961	VCN16961.1330	NC_002505	1432566..1433702	+	1137	VC1345	Homogentisate 1,2-dioxygenase (EC 1.13.11.5	Homogentisate pathway of aromatic c	Metabolism of central aro	Metabolism	1432566	1433702	ref000001
1353	VCN16961	VCN16961.1331	NC_002505	1433709..1434728	+	1020	VC1346	2-keto-4-pentenoate hydratase (EC 4.2.1.-)	Biphenyl Degradation	Peripheral pathways for c	Metabolism	1433709	1434728	ref000001
1354	VCN16961	VCN16961.1332	NC_002505	1434725..1435372	+	648	VC1347	Maleylacetoacetate isomerase (EC 5.2.1.2)	Homogentisate pathway of aromatic c	Metabolism of central aro	Metabolism	1434725	1435372	ref000001
1355	VCN16961	VCN16961.3973	NC_002505	1436493..1435354	-	1140	VC1348	Response regulator				1435354	1436493	ref000001
1356	VCN16961	VCN16961.1334	NC_002505	1436615..1440610	+	3996	VC1349	FOG: CheY-like receiver				1436615	1440610	ref000001
1357	VCN16961	VCN16961.1335	NC_002505	1441189..1440716	-	474	VC1350	Antioxidant, putative				1440716	1441189	ref000001
1362	VCN16961	VCN16961.3947	NC_002505	1446251..1446526	+	276	VC1355	Acylphosphate phosphohydrolase (EC 3.6.1.7)	Pyruvate metabolism II: acetyl-CoA, a	Central carbohydrate met	Carbohydr	1446251	1446526	ref000001
1363	VCN16961	VCN16961.1341	NC_002505	1446921..1446592	-	330	VC1356	tRNA 2-thiouridine synthesizing protein E (EC 2	CBSS-326442.4.peg.1852			1446592	1446921	ref000001
1367	VCN16961	VCN16961.1345	NC_002505	1449826..1448729	-	1098	VC1360	Amino acid ABC transporter, permease protein				1448729	1449826	ref000001
1368	VCN16961	VCN16961.1346	NC_002505	1451034..1449829	-	1206	VC1361	Amino acid ABC transporter, permease protein				1449829	1451034	ref000001
1370	VCN16961	VCN16961.1348	NC_002505	1452643..1453581	+	939	VC1363	Siroheme synthase / Precorrin-2 oxidase (EC 1	Experimental tye	Tetrapyrroles	Cofactors,	1452643	1453581	ref000001
1371	VCN16961	VCN16961.1349	NC_002505	1454468..1453647	-	822	VC1364	Predicted hydrolase				1453647	1454468	ref000001
1372	VCN16961	VCN16961.4388	NC_002505	1454813..1455481	+	669	VC1365	Queuosine Biosynthesis QueE Radical SAM	tRNA modification E.coli	RNA processing and mod	RNA Metal	1454813	1455481	ref000001
1373	VCN16961	VCN16961.1351	NC_002505	1455494..1456189	+	696	VC1366	Queuosine Biosynthesis QueC ATPase	tRNA modification E.coli	RNA processing and mod	RNA Metal	1455494	1456189	ref000001
1374	VCN16961	VCN16961.1352	NC_002505	1458164..1456161	-	2004	VC1367	GGDEF family protein				1456161	1458164	ref000001
1376	VCN16961	VCN16961.1354	NC_002505	1458740..1459756	+	1017	VC1369	ABC-type nitrate/sulfonate/bicarbonate transport	systems, periplasmic components			1458740	1459756	ref000001
1377	VCN16961	VCN16961.1355	NC_002505	1459753..1461084	+	1332	VC1370	GGDEF family protein				1459753	1461084	ref000001
1379	VCN16961	VCN16961.1357	NC_002505	1462189..1463367	+	1179	VC1372	GGDEF family protein				1462189	1463367	ref000001
1380	VCN16961	VCN16961.3997	NC_002505	1466307..1463479	-	2829	VC1373	DnaK-related protein				1463479	1466307	ref000001
1389	VCN16961	VCN16961.1367	NC_002505	1472911..1476840	+	3930	VC1382	ATP-dependent helicase HrpA				1472911	1476840	ref000001
1393	VCN16961	VCN16961.1371	NC_002505	1477679..1479031	+	1353	VC1386	Putative heat shock protein YegD		Miscellaneous - no subca	Miscellane	1477679	1479031	ref000001
1395	VCN16961	VCN16961.1373	NC_002505	1479156..1480172	+	1017	VC1388	Lipoate-protein ligase A	Glycine cleavage system	Lipoic acid	Cofactors,	1479156	1480172	ref000001
1397	VCN16961	VCN16961.1375	NC_002505	1481515..1480565	-	951	VC1390	Transcriptional regulator, LysR family				1480565	1481515	ref000001
1398	VCN16961	VCN16961.1376	NC_002505	1481602..1483008	+	1407	VC1391	multidrug transporter, putative				1481602	1483008	ref000001
1400	VCN16961	VCN16961.1378	NC_002505	1484824..1485138	+	315	VC1393	Molecular chaperone SugE				1484824	1485138	ref000001
1421	VCN16961	VCN16961.1398	NC_002505	1509434..1507860	-	1575	VC1414	Thermostable carboxypeptidase 1				1507860	1509434	ref000001
1428	VCN16961	VCN16961.1405	NC_002505	1518246..1518884	+	639	VC1421	Putative threonine efflux protein				1518246	1518884	ref000001
1429	VCN16961	VCN16961.1406	NC_002505	1520333..1518957	-	1377	VC1422	Sodium/alanine symporter				1518957	1520333	ref000001
1430	VCN16961	VCN16961.1407	NC_002505	1521011..1521745	+	735	VC1423	Chromosome segregation ATPase				1521011	1521745	ref000001
1431	VCN16961	VCN16961.1408	NC_002505	1522929..1521892	-	1038	VC1424	ABC transporter, periplasmic spermidine putres	Polyamine Metabolism	Arginine; urea cycle, poly	Amino Acid	1521892	1522929	ref000001
1435	VCN16961	VCN16961.1412	NC_002505	1526919..1525786	-	1134	VC1428	Spermidine Putrescine transport ATP-binding p	Polyamine Metabolism	Arginine; urea cycle, poly	Amino Acid	1525786	1526919	ref000001
1437	VCN16961	VCN16961.1414	NC_002505	1528040..1528843	+	804	VC1430	Putative Bax protein				1528040	1528843	ref000001
1440	VCN16961	VCN16961.1417	NC_002505	1531586..1530639	-	948	VC1433	Universal stress protein E	Multiple resistance and pH-related ant	Stress Response - no sub	Stress Res	1530639	1531586	ref000001
1441	VCN16961	VCN16961.1418	NC_002505	1532468..1531716	-	753	VC1434	Fumarate and nitrate reduction regulatory prote	Oxidative stress	Oxidative stress	Stress Res	1531716	1532468	ref000001
1442	VCN16961	VCN16961.1419	NC_002505	1533232..1532558	-	675	VC1435	Heavy-metal-associated domain (N-terminus) a	Biogenesis of cbb3-type cytochrome c	Respiration - no subcateg	Respiratior	1532558	1533232	ref000001
1454	VCN16961	VCN16961.1431	NC_002505	1546802..1545399	-	1404	VC1447	RTX toxin transporter				1545399	1546802	ref000001
1455	VCN16961	VCN16961.4191	NC_002505	1548364..1546757	-	1608	VC1448	RTX toxin transporter				1546757	1548364	ref000001
1489	VCN16961	VCN16961.4100	NC_002505	1586711..1588360	+	1650	VC1482	ATP-dependent protease La (EC 3.4.21.53) Ty	Proteasome bacterial	Protein degradation	Protein Me	1586711	1588360	ref000001
1493	VCN16961	VCN16961.1468	NC_002505	1592985..1591066	-	1920	VC1486	ABC transporter, ATP-binding protein				1591066	1592985	ref000001
1495	VCN16961	VCN16961.1470	NC_002505	1595340..1593214	-	2127	VC1488	23S rRNA (guanine-N-2-) -methyltransferase rlmL	EC 2.1.1.-)			1593214	1595340	ref000001
1498	VCN16961	VCN16961.1473	NC_002505	1597507..1596497	-	1011	VC1491	Dihydroorotate dehydrogenase (EC 1.3.3.1)	De Novo Pyrimidine Synthesis	Nucleosides and Nucleoti	Nucleoside	1596497	1597507	ref000001
1501	VCN16961	VCN16961.1476	NC_002505	1605487..1602881	-	2607	VC1494	Membrane alanine aminopeptidase N (EC 3.4.:	Protein degradation	Protein degradation	Protein Me	1602881	1605487	ref000001
1502	VCN16961	VCN16961.1477	NC_002505	1606402..1605686	-	717	VC1495	FOG: WD40 repeat				1605686	1606402	ref000001
1503	VCN16961	VCN16961.1478	NC_002505	1608508..1606511	-	1998	VC1496	Tail-specific protease precursor (EC 3.4.21.102	CBSS-221988.1.peg.771			1606511	1608508	ref000001
1508	VCN16961	VCN16961.1483	NC_002505	1612911..1615550	+	2640	VC1501	Paraquat-inducible protein B	CBSS-221988.1.peg.771	Iron Scavenging Mechani	Virulence	1612911	1615550	ref000001
1509	VCN16961	VCN16961.4290	NC_002505	1615671..1617092	+	1422	VC1502	Ribosomal RNA small subunit methyltransferas	rRNA methylation in clusters	RNA processing and mod	RNA Metal	1615671	1617092	ref000001
1514	VCN16961	VCN16961.4112	NC_002505	1620302..1621363	+	1062	VC1507	2-keto-3-deoxy-D-arabino-heptulosonate-7-phc	Common Pathway For Synthesis of Ar	Aromatic amino acids and	Amino Acid	1620302	1621363	ref000001
1515	VCN16961	VCN16961.1490	NC_002505	1621375..1621857	+	483	VC1508	Protein yajQ				1621375	1621857	ref000001
1516	VCN16961	VCN16961.3976	NC_002505	1622732..1621992	-	741	VC1509	NAD-dependent protein deacetylase of SIR2 fa	NAD and NADP cofactor biosynthesis	NAD and NADP	Cofactors,	1621992	1622732	ref000001
1518	VCN16961	VCN16961.4305	NC_002505	1624345..1623278	-	1068	VC1511	Formate dehydrogenase -O, gamma subunit (E	Formate hydrogenase	Electron accepting reactic	Respiratior	1623278	1624345	ref000001
1519	VCN16961	VCN16961.1494	NC_002505	1624960..1624352	-	609	VC1512	Formate dehydrogenase-O, iron-sulfur subunit	Formate hydrogenase	Respiration - no subcateg	Respiratior	1624352	1624960	ref000001
1521	VCN16961	VCN16961.3899	NC_002505	1627826..1625871	-	1956	VC1513b	Formate dehydrogenase-O, major subunit (EC	Formate hydrogenase	Respiration - no subcateg	Respiratior	1625871	1627826	ref000001
1523	VCN16961	VCN16961.1496	NC_002505	1628769..1628113	-	657	VC1515	Putative formate dehydrogenase-specific chap	Formate hydrogenase	Respiration - no subcateg	Respiratior	1628113	1628769	ref000001
1524	VCN16961	VCN16961.1497	NC_002505	1630456..1628795	-	1662	VC1516	Iron-sulfur cluster-binding protein	Soluble cytochromes and functionally	Respiration - no subcateg	Respiratior	1628795	1630456	ref000001
1527	VCN16961	VCN16961.4023	NC_002505	1631948..1632781	+	834	VC1519	Formate dehydrogenase chain D (EC 1.2.1.2)	Formate hydrogenase	Respiration - no subcateg	Respiratior	1631948	1632781	ref000001
1528	VCN16961	VCN16961.1501	NC_002505	1634480..1632888	-	1593	VC1520	ABC transporter, ATP-binding protein				1632888	1634480	ref000001
1529	VCN16961	VCN16961.1502	NC_002505	1636725..1634692	-	2034	VC1521	Signal transduction histidine kinase				1634692	1636725	ref000001
1530	VCN16961	VCN16961.1503	NC_002505	1638169..1636715	-	1455	VC1522	Sigma-54 dependent response regulator				1636715	1638169	ref000001
1531	VCN16961	VCN16961.4265	NC_002505	1638473..1639288	+	816	VC1523	ABC-type tungstate transport system, periplasr	ABC transporter tungstate (TC 3.A.1.6	ABC transporters	Membrane	1638473	1639288	ref000001
1532	VCN16961	VCN16961.1505	NC_002505	1639295..1639993	+	699	VC1524	ABC-type tungstate transport system, permeas	ABC transporter tungstate (TC 3.A.1.6	ABC transporters	Membrane	1639295	1639993	ref000001
1533	VCN16961	VCN16961.1506	NC_002505	1640002..1640724	+	723	VC1525	ABC-type tungstate transport system, ATP-bin	ABC transporter tungstate (TC 3.A.1.6	ABC transporters	Membrane	1640002	1640724	ref000001
1534	VCN16961	VCN16961.1507	NC_002505	1640678..1641289	+	612	VC1526	Molybdopterin-guanine dinucleotide biosynthes	Molybdopterin experimental	Folate and pterines	Cofactors,	1640678	1641289	ref000001
1535	VCN16961	VCN16961.1508	NC_002505	1641286..1643106	+	1821	VC1527	Molybdopterin-guanine dinucleotide biosynthes	Molybdopterin experimental	Folate and pterines	Cofactors,	1641286	1643106	ref000001
1540	VCN16961	VCN16961.1513	NC_002505	1645580..1644672	-	909	VC1532	ROK family protein				1644672	1645580	ref000001
1541	VCN16961	VCN16961.1514	NC_002505	1646480..1645743	-	738	VC1533	Putative cytoplasmic protein				1645743	1646480	ref000001
1542	VCN16961	VCN16961.4273	NC_002505	1646580..1647371	+	792	VC1534	Sterol desaturase				1646580	1647371	ref000001
1543	VCN16961	VCN16961.1516	NC_002505	1648965..1647373	-	1593	VC1535	Methyl-accepting chemotaxis protein				1647373	1648965	ref000001
1549	VCN16961	VCN16961.1521	NC_002505	1652328..1653713	+	1386	VC1540	Multi antimicrobial extrusion protein (Na(+)/dru	Multidrug Resistance Efflux Pumps	Resistance to antibiotics a	Virulence	1652328	1653713	ref000001
1551	VCN16961	VCN16961.1523	NC_002505	1655755..1654907	-	849	VC1542	ATP-dependent DNA ligase				1654907	1655755	ref000001
1552	VCN16961	VCN16961.1524	NC_002505	1657240..1656062	-	1179	VC1543	TPR domain protein, putative component of To	Ton and Tol transport systems	Virulence - no subcategor	Virulence	1656062	1657240	ref000001
1553	VCN16961	VCN16961.1525	NC_002505	1657857..1657237	-	621	VC1544	Ferric siderophore transport system, periplasm	Ton and Tol transport systems	Iron Scavenging Mechani	Virulence	1657237	1657857	ref000001
1555	VCN16961	VCN16961.1527	NC_002505	1658800..1658258	-	543	VC1546	Ferric siderophore transport system, biopolyme	Ton and Tol transport systems	Iron Scavenging Mechani	Virulence	1658258	1658800	ref000001

1556	VCN16961	VCN16961.1528	NC_002505	1660180..1658807	-	1374	VC1547	MotA/TolQ/ExbB proton channel family protein	Ton and Tol transport systems	Virulence - no subcategor	Virulence	1658807	1660180	ref000001	
1557	VCN16961	VCN16961.1529	NC_002505	1660938..1660180	-	759	VC1548	TonB system biopolymer transport component;	Ton and Tol transport systems	Virulence - no subcategor	Virulence	1660180	1660938	ref000001	
1558	VCN16961	VCN16961.1530	NC_002505	1661257..1662561	+	1305	VC1549	Glycerol-3-phosphate ABC transporter, periplas	Glycerol and Glycerol-3-phosphate Up	Sugar alcohols	Carbohydr	1661257	1662561	ref000001	
1559	VCN16961	VCN16961.1531	NC_002505	1662637..1663518	+	882	VC1550	SN-glycerol-3-phosphate transport system perr	Glycerol and Glycerol-3-phosphate Up	Sugar alcohols	Carbohydr	1662637	1663518	ref000001	
1560	VCN16961	VCN16961.1532	NC_002505	1663528..1664370	+	843	VC1551	SN-glycerol-3-phosphate transport system perr	Glycerol and Glycerol-3-phosphate Up	Sugar alcohols	Carbohydr	1663528	1664370	ref000001	
1561	VCN16961	VCN16961.4070	NC_002505	1664423..1665541	+	1119	VC1552	SN-glycerol-3-phosphate transport ATP-binding	Glycerol and Glycerol-3-phosphate Up	Sugar alcohols	Carbohydr	1664423	1665541	ref000001	
1562	VCN16961	VCN16961.1534	NC_002505	1665566..1666327	+	762	VC1553	Glycerol-3-phosphate regulon repressor, DeoR	Glycerol and Glycerol-3-phosphate Up	Sugar alcohols	Carbohydr	1665566	1666327	ref000001	
1563	VCN16961	VCN16961.1535	NC_002505	1666355..1667068	+	714	VC1554	Glycerophosphoryl diester phosphodiesterase (	CBSS-176299.4.peg.1996	Sugar alcohols	Carbohydr	1666355	1667068	ref000001	
1565	VCN16961	VCN16961.1537	NC_002505	1667987..1667625	-	363	VC1556	Putative translation initiation inhibitor				1667625	1667987	ref000001	
1569	VCN16961	VCN16961.1541	NC_002505	1671041..1673215	+	2175	VC1560	Catalase (EC 1.11.1.6) / Peroxidase (EC 1.11.:	Oxidative stress	Oxidative stress	Stress Res	1671041	1673215	ref000001	
1576	VCN16961	VCN16961.1548	NC_002505	1679222..1680499	+	1278	VC1567	ABC-type antimicrobial peptide transport system,	permease component			1679222	1680499	ref000001	
1577	VCN16961	VCN16961.1549	NC_002505	1680499..1681200	+	702	VC1568	ABC-type antimicrobial peptide transport system,	ATPase component			1680499	1681200	ref000001	
1579	VCN16961	VCN16961.1551	NC_002505	1682266..1681274	-	993	VC1570	Cytochrome d ubiquinol oxidase subunit II (EC	Conserved gene cluster associated wi	Electron accepting reactic	Respiratior	1681274	1682266	ref000001	
1580	VCN16961	VCN16961.1552	NC_002505	1683600..1682263	-	1338	VC1571	Cytochrome d ubiquinol oxidase subunit I (EC :	Terminal cytochrome oxidases	Electron accepting reactic	Respiratior	1682263	1683600	ref000001	
1582	VCN16961	VCN16961.1554	NC_002505	1684519..1685904	+	1386	VC1573	Fumarate hydratase class II (EC 4.2.1.2)	TCA Cycle	Central carbohydrate met	Carbohydr	1684519	1685904	ref000001	
1588	VCN16961	VCN16961.1560	NC_002505	1690151..1688481	-	1671	VC1579	Enterobactin synthetase component F (EC 2.7.	Siderophores of catechol family	Iron Scavenging Mechani	Virulence	1688481	1690151	ref000001	
1597	VCN16961	VCN16961.1569	NC_002505	1699954..1699073	-	882	VC1588	Transcriptional regulator of alpha-acetolactate (	Alpha-acetolactate operon	Organic acids	Carbohydr	1699073	1699954	ref000001	
1598	VCN16961	VCN16961.1570	NC_002505	1700060..1700845	+	786	VC1589	Alpha-acetolactate decarboxylase (EC 4.1.1.5)	Alpha-acetolactate operon	Cell cycle in Prokaryota	Cell Divisic	1700060	1700845	ref000001	
1599	VCN16961	VCN16961.1571	NC_002505	1700984..1702687	+	1704	VC1590	Acetolactate synthase, catabolic (EC 2.2.1.6)	Alpha-acetolactate operon	Cell cycle in Prokaryota	Cell Divisic	1700984	1702687	ref000001	
1600	VCN16961	VCN16961.1572	NC_002505	1702684..1703442	+	759	VC1591	oxidoreductase, short-chain dehydrogenase/re	ductase family			1702684	1703442	ref000001	
1602	VCN16961	VCN16961.1574	NC_002505	1704617..1705906	+	1290	VC1593	GGDEF family protein				1704617	1705906	ref000001	
1603	VCN16961	VCN16961.1575	NC_002505	1706976..1705924	-	1053	VC1594	Aldose 1-epimerase (EC 5.1.3.3)	Maltose and Maltodextrin Utilization	Central carbohydrate met	Carbohydr	1705924	1706976	ref000001	
1604	VCN16961	VCN16961.4188	NC_002505	1708145..1706985	-	1161	VC1595	Galactokinase (EC 2.7.1.6)	Lactose and Galactose Uptake and Ut	Di- and oligosaccharides	Carbohydr	1706985	1708145	ref000001	
1605	VCN16961	VCN16961.1577	NC_002505	1709329..1708211	-	1119	VC1596	Galactose-1-phosphate uridylyltransferase (EC	Lactose and Galactose Uptake and Ut	Di- and oligosaccharides	Carbohydr	1708211	1709329	ref000001	
1606	VCN16961	VCN16961.1578	NC_002505	1711152..1709719	-	1434	VC1597	putative multidrug-efflux transporter				1709719	1711152	ref000001	
1607	VCN16961	VCN16961.1579	NC_002505	1711301..1712125	+	825	VC1598	ABC transporter, periplasmic substrate-binding	protein-related protein			1711301	1712125	ref000001	
1608	VCN16961	VCN16961.1580	NC_002505	1712741..1713802	+	1062	VC1599	GGDEF family protein				1712741	1713802	ref000001	
1609	VCN16961	VCN16961.1581	NC_002505	1714494..1713805	-	690	VC1600	Potential queD like				1713805	1714494	ref000001	
1612	VCN16961	VCN16961.1584	NC_002505	1717325..1716549	-	777	VC1603	ABC-type amino acid transport, signal transduction	systems, periplasmic component/domain			1716549	1717325	ref000001	
1615	VCN16961	VCN16961.1587	NC_002505	1720423..1721853	+	1431	VC1606	Outer membrane protein	CBSS-323850.3.peg.3284			1720423	1721853	ref000001	
1616	VCN16961	VCN16961.1588	NC_002505	1721865..1722839	+	975	VC1607	Membrane-fusion protein				1721865	1722839	ref000001	
1617	VCN16961	VCN16961.3939	NC_002505	1722858..1724006	+	1149	VC1608	ABC-type multidrug transport system, permeas	CBSS-196164.1.peg.1690			1722858	1724006	ref000001	
1624	VCN16961	VCN16961.1596	NC_002505	1729557..1729045	-	513	VC1615	COG1451: Predicted metal-dependent hydrolase				1729045	1729557	ref000001	
1625	VCN16961	VCN16961.1597	NC_002505	1729725..1729958	+	234	VC1616	Glutaredoxin	Glutaredoxins	Regulation and Cell signa	Regulation	1729725	1729958	ref000001	
1626	VCN16961	VCN16961.1598	NC_002505	1730879..1729989	-	891	VC1617	Transcriptional regulator, LysR family				1729989	1730879	ref000001	
1627	VCN16961	VCN16961.1599	NC_002505	1730964..1732181	+	1218	VC1618	Permease of the major facilitator superfamily				1730964	1732181	ref000001	
1631	VCN16961	VCN16961.1601	NC_002505	1741764..1743101	+	1338	VC1621	Agglutination protein	CBSS-323850.3.peg.3284			1741764	1743101	ref000001	
1639	VCN16961	VCN16961.4378	NC_002505	1755015..1752562	-	2454	VC1629	ABC-type antimicrobial peptide transport system,	permease component			1752562	1755015	ref000001	
1640	VCN16961	VCN16961.1608	NC_002505	1755679..1754996	-	684	VC1630	ABC-type antimicrobial peptide transport system,	ATPase component			1754996	1755679	ref000001	
1645	VCN16961	VCN16961.1613	NC_002505	1761678..1760983	-	696	VC1635	Ribosomal small subunit pseudouridine synthase	A (EC 4.2.1.70)			1760983	1761678	ref000001	
1646	VCN16961	VCN16961.4333	NC_002505	1761812..1763596	+	1785	VC1636	Helicase-related protein				1761812	1763596	ref000001	
1647	VCN16961	VCN16961.1615	NC_002505	1763861..1764268	+	408	VC1637	membrane protein				1763861	1764268	ref000001	
1648	VCN16961	VCN16961.1616	NC_002505	1764280..1764939	+	660	VC1638	DNA-binding response regulator				1764280	1764939	ref000001	
1649	VCN16961	VCN16961.4105	NC_002505	1764929..1766302	+	1374	VC1639	Signal transduction histidine kinase				1764929	1766302	ref000001	
1650	VCN16961	VCN16961.1618	NC_002505	1766460..1766738	+	279	VC1640	LSU ribosomal protein L25p	Ribosome LSU bacterial	Protein biosynthesis	Protein Me	1766460	1766738	ref000001	
1651	VCN16961	VCN16961.1619	NC_002505	1767661..1766888	-	774	VC1641	FOG: EAL domain protein				1766888	1767661	ref000001	
1653	VCN16961	VCN16961.1621	NC_002505	1768345..1770135	+	1791	VC1643	Methyl-accepting chemotaxis protein				1768345	1770135	ref000001	
1657	VCN16961	VCN16961.4285	NC_002505	1773000..1774763	+	1764	VC1647	putative transport protein				1773000	1774763	ref000001	
1659	VCN16961	VCN16961.1627	NC_002505	1776490..1774844	-	1647	VC1649	trypsin, putative				1774844	1776490	ref000001	
1660	VCN16961	VCN16961.1628	NC_002505	1776818..1779274	+	2457	VC1650	Microbial collagenase, secreted (EC 3.4.24.3)	Proline, 4-hydroxyproline uptake and (	Proline and 4-hydroxyprol	Amino Acic	1776818	1779274	ref000001	
1666	VCN16961	VCN16961.1634	NC_002505	1789272..1788409	-	864	VC1656	Permease of the drug/metabolite transporter (D	Cobalt-zinc-cadmium resistance	RNA processing and mod	RNA Metal	1788409	1789272	ref000001	
1675	VCN16961	VCN16961.1641	NC_002505	1795457..1796605	+	1149	VC1664	ABC transporter, periplasmic substrate-binding	protein YnjB			1795457	1796605	ref000001	
1676	VCN16961	VCN16961.1642	NC_002505	1796619..1798319	+	1701	VC1665	ABC transporter, permease protein YnjC				1796619	1798319	ref000001	
1677	VCN16961	VCN16961.1643	NC_002505	1798285..1798947	+	663	VC1666	ABC transporter, ATP-binding protein YnjD				1798285	1798947	ref000001	
1680	VCN16961	VCN16961.1646	NC_002505	1801771..1800425	-	1347	VC1669	sodium-dependent transporter, putative				1800425	1801771	ref000001	
1681	VCN16961	VCN16961.1647	NC_002505	1802327..1803781	+	1455	VC1670	Cardiolipin synthetase (EC 2.7.8.-)	Glycerolipid and Glycerophospholipid	Phospholipids	Fatty Acids	1802327	1803781	ref000001	
1682	VCN16961	VCN16961.1648	NC_002505	1803862..1805052	+	1191	VC1671	Cystathionine beta-lyase (EC 4.4.1.8)	Methionine Biosynthesis	Lysine, threonine, methio	Amino Acic	1803862	1805052	ref000001	
1684	VCN16961	VCN16961.4005	NC_002505	1808905..1805807	-	3099	VC1673	Transporter, AcrB/D/F family				1805807	1808905	ref000001	
1685	VCN16961	VCN16961.4211	NC_002505	1809977..1808898	-	1080	VC1674	Periplasmic linker protein, putative				1808898	1809977	ref000001	
1686	VCN16961	VCN16961.1652	NC_002505	1811010..1809979	-	1032	VC1675	Membrane-fusion protein				1809979	1811010	ref000001	
1687	VCN16961	VCN16961.1653	NC_002505	1811598..1811182	-	417	VC1676	Phage shock protein C	Phage shock protein (psp) operon	Stress Response - no sut	Stress Res	1811182	1811598	ref000001	
1689	VCN16961	VCN16961.1655	NC_002505	1812479..1811811	-	669	VC1678	Phage shock protein A	Phage shock protein (psp) operon	Stress Response - no sut	Stress Res	1811811	1812479	ref000001	
1690	VCN16961	VCN16961.1656	NC_002505	1812689..1813705	+	1017	VC1679	Psp operon transcriptional activator	Phage shock protein (psp) operon	Stress Response - no sut	Stress Res	1812689	1813705	ref000001	
1691	VCN16961	VCN16961.1657	NC_002505	1813819..1815441	+	1623	VC1680	Peptide transport periplasmic protein sapA (TC	ABC transporter peptide (TC 3.A.1.5.5	ABC transporters	Membrane	1813819	1815441	ref000001	
1692	VCN16961	VCN16961.1658	NC_002505	1815441..1816403	+	963	VC1681	Peptide transport system permease protein saq	ABC transporter peptide (TC 3.A.1.5.5	ABC transporters	Membrane	1815441	1816403	ref000001	
1693	VCN16961	VCN16961.1659	NC_002505	1816390..1817277	+	888	VC1682	Peptide transport system permease protein saq	ABC transporter peptide (TC 3.A.1.5.5	ABC transporters	Membrane	1816390	1817277	ref000001	
1694	VCN16961	VCN16961.1660	NC_002505	1817277..1818272	+	996	VC1683	Peptide transport system ATP-binding protein s	ABC transporter peptide (TC 3.A.1.5.5	ABC transporters	Membrane	1817277	1818272	ref000001	
1695	VCN16961	VCN16961.1661	NC_002505	1818269..1819057	+	789	VC1684	Peptide transport system ATP-binding protein s	ABC transporter peptide (TC 3.A.1.5.5	ABC transporters	Membrane	1818269	1819057	ref000001	
1698	VCN16961	VCN16961.1664	NC_002505	1821294..1820389	-	906	VC1687	Manganese-dependent inorganic pyrophospha	Phosphate metabolism	Phosphorus Metabolism -	Phosphoru	1820389	1821294	ref000001	
1701	VCN16961	VCN16961.1667	NC_002505	1824488..1823364	-	1125	VC1690	Alpha-1,6-galactosidase, putative				1823364	1824488	ref000001	
1703	VCN16961	VCN16961.1669	NC_002505	1827157..1824695	-	2463	VC1692	Trimethylamine-N-oxide reductase (EC 1.6.6.9	trimethylamine N-oxide (TMAO) reduc	Electron accepting reactic	Respiratior	1824695	1827157	ref000001	
1704	VCN16961	VCN16961.1670	NC_002505	1828365..1827181	-	1185	VC1693	Cytochrome c-type protein torY	trimethylamine N-oxide (TMAO) reduc	Electron accepting reactic	Respiratior	1827181	1828365	ref000001	
1705	VCN16961	VCN16961.3962	NC_002505	1828594..1828412	-	183	VC1694	Periplasmic nitrate reductase component NapE	Nitrate and nitrite ammonification	Nitrogen Metabolism - no	Nitrogen M	1828412	1828594	ref000001	
1706	VCN16961	VCN16961.1672	NC_002505	1830116..1829274	-	843	VC1695	Formate efflux transporter (TC 2.A.44 family)	Formate hydrogenase	Respiration - no subcateg	Respiratior	1829274	1830116	ref000001	
1707	VCN16961	VCN16961.4392	NC_002505	1830468..1830701	+	234	VC1696	DNA-binding protein inhibitor Id-2-related protein				1830468	1830701	ref000001	

1711	VCN16961	VCN16961.1677	NC_002505	1832906..1833451	+	546	VC1700	Intracellular septation protein A					1832906	1833451	ref000001
1712	VCN16961	VCN16961.3983	NC_002505	1833610..1834029	+	420	VC1701	Acyl-CoA hydrolase (EC 3.1.2.20)					1833610	1834029	ref000001
1715	VCN16961	VCN16961.1681	NC_002505	1837360..1835075	-	2286	VC1704	5-methyltetrahydropteroyltriglutamate--homocy	Methionine Biosynthesis	Lysine, threonine, methio	Amino Acic		1835075	1837360	ref000001
1717	VCN16961	VCN16961.1683	NC_002505	1837756..1838673	+	918	VC1706	Transcriptional activator MetR	Methionine Biosynthesis	Lysine, threonine, methio	Amino Acic		1837756	1838673	ref000001
1720	VCN16961	VCN16961.1686	NC_002505	1839907..1842675	+	2769	VC1709	Probable zinc protease pqqL (EC 3.4.99.-)					1839907	1842675	ref000001
1724	VCN16961	VCN16961.1690	NC_002505	1848654..1849097	+	444	VC1713	Transcriptional regulator, AsnC family					1848654	1849097	ref000001
1725	VCN16961	VCN16961.1691	NC_002505	1853654..1849179	-	4476	VC1714	Chromosome partition protein mukB	MukBEF Chromosome Condensation	Cell cycle in Prokaryota	Cell Divisic		1849179	1853654	ref000001
1728	VCN16961	VCN16961.1694	NC_002505	1856485..1855703	-	783	VC1717	S-adenosylmethionine-dependent methyltransf	MukBEF Chromosome Condensation	Cell cycle in Prokaryota	Cell Divisic		1855703	1856485	ref000001
1730	VCN16961	VCN16961.1696	NC_002505	1858227..1857523	-	705	VC1719	TorCAD operon transcriptional regulatory prote	trimethylamine N-oxide (TMAO) reduc	Electron accepting reactic	Respiratior		1857523	1858227	ref000001
1731	VCN16961	VCN16961.1697	NC_002505	1858452..1859114	+	663	VC1720	Chaperone protein torD	trimethylamine N-oxide (TMAO) reduc	Electron accepting reactic	Respiratior		1858452	1859114	ref000001
1737	VCN16961	VCN16961.1703	NC_002505	1865331..1863877	-	1455	VC1726	Glycogen synthase, ADP-glucose transglucosy	Glycogen metabolism	Central carbohydrate met	Carbohydr		1863877	1865331	ref000001
1738	VCN16961	VCN16961.1704	NC_002505	1866550..1865333	-	1218	VC1727	Glucose-1-phosphate adenylyltransferase (EC	Sucrose Metabolism	Central carbohydrate met	Carbohydr		1865333	1866550	ref000001
1741	VCN16961	VCN16961.1707	NC_002505	1869849..1867219	-	2631	VC1730	DNA topoisomerase I (EC 5.99.1.2)	CBSS-335283.3.peg.454	DNA replication	DNA Metal		1867219	1869849	ref000001
1743	VCN16961	VCN16961.1709	NC_002505	1871805..1870525	-	1281	VC1732	3-phosphoshikimate 1-carboxyvinyltransferase	Common Pathway For Synthesis of Ar	Aromatic amino acids and	Amino Acic		1870525	1871805	ref000001
1746	VCN16961	VCN16961.1712	NC_002505	1872072..1872803	+	732	VC1735	Leucyl/phenylalanyl-tRNA--protein transferase	Protein degradation	Protein degradation	Protein Me		1872072	1872803	ref000001
1747	VCN16961	VCN16961.1713	NC_002505	1872807..1873508	+	702	VC1736	Leucyl/phenylalanyl-tRNA--protein transferase	Protein degradation	Protein degradation	Protein Me		1872807	1873508	ref000001
1748	VCN16961	VCN16961.1714	NC_002505	1873592..1873810	+	219	VC1737	Translation initiation factor 1	Translation factors bacterial	Protein biosynthesis	Protein Me		1873592	1873810	ref000001
1749	VCN16961	VCN16961.1715	NC_002505	1875013..1874114	-	900	VC1738	Short-chain alcohol dehydrogenase family					1874114	1875013	ref000001
1751	VCN16961	VCN16961.1717	NC_002505	1877799..1875517	-	2283	VC1740	Acyl-CoA dehydrogenase, short-chain specific	Acetyl-CoA fermentation to Butyrate	Electron accepting reactic	Respiratior		1875517	1877799	ref000001
1752	VCN16961	VCN16961.4350	NC_002505	1878481..1877855	-	627	VC1741	Predicted transcriptional regulator for fatty acid	Fatty acid degradation regulons				1877855	1878481	ref000001
1754	VCN16961	VCN16961.1720	NC_002505	1878900..1879925	+	1026	VC1743	1-aminocyclopropane-1-carboxylate deaminase (EC 4.1.99.4)					1878900	1879925	ref000001
1756	VCN16961	VCN16961.1722	NC_002505	1881698..1880232	-	1467	VC1745	Succinate-semialdehyde dehydrogenase [NADP+] (EC 1.2.1.16)					1880232	1881698	ref000001
1757	VCN16961	VCN16961.1723	NC_002505	1882345..1881716	-	630	VC1746	Transcriptional regulator					1881716	1882345	ref000001
1764	VCN16961	VCN16961.1730	NC_002505	1887601..1888905	+	1305	VC1753	Paraquat-inducible protein A # parolog	CBSS-221988.1.peg.771	Iron Scavenging Mechani	Virulence		1887601	1888905	ref000001
1765	VCN16961	VCN16961.1731	NC_002505	1888902..1890545	+	1644	VC1754	Paraquat-inducible protein B	CBSS-221988.1.peg.771	Iron Scavenging Mechani	Virulence		1888902	1890545	ref000001
1767	VCN16961	VCN16961.1733	NC_002505	1891336..1892430	+	1095	VC1756	Probable Co/Zn/Cd efflux system membrane fu	Cobalt-zinc-cadmium resistance	Resistance to antibiotics a	Virulence		1891336	1892430	ref000001
1768	VCN16961	VCN16961.1734	NC_002505	1892430..1895480	+	3051	VC1757	Transporter, AcrB/D/F family					1892430	1895480	ref000001
1827	VCN16961	VCN16961.3955	NC_002505	1958961..1957201	-	1761	VC1817	Sigma-54 dependent transcriptional regulator	Type VI secretion systems				1957201	1958961	ref000001
1829	VCN16961	VCN16961.1794	NC_002505	1959245..1960765	+	1521	VC1819	Aldehyde dehydrogenase (EC 1.2.1.3)	Entner-Doudoroff Pathway	Phospholipids	Fatty Acids		1959245	1960765	ref000001
1843	VCN16961	VCN16961.1808	NC_002505	1975616..1974555	-	1062	VC1833	Quinolinate synthetase (EC 4.1.99.-)	NAD and NADP cofactor biosynthesis	NAD and NADP	Cofactors,		1974555	1975616	ref000001
1845	VCN16961	VCN16961.1810	NC_002505	1977088..1976570	-	519	VC1835	18K peptidoglycan-associated outer membrane	Ton and Tol transport systems	Virulence - no subcategor	Virulence		1976570	1977088	ref000001
1871	VCN16961	VCN16961.1836	NC_002505	2001808..2001131	-	678	VC1861	Amino acid ABC transporter, permease protein					2001131	2001808	ref000001
1872	VCN16961	VCN16961.4043	NC_002505	2002551..2001811	-	741	VC1862	Arginine/ornithine ABC transporter, permease p	Arginine and Ornithine Degradation	Arginine; urea cycle, poly	Amino Acic		2001811	2002551	ref000001
1873	VCN16961	VCN16961.1838	NC_002505	2003481..2002699	-	783	VC1863	Amino acid ABC transporter, periplasmic amino acid-binding protein					2002699	2003481	ref000001
1874	VCN16961	VCN16961.1839	NC_002505	2004430..2003660	-	771	VC1864	Arginine/ornithine ABC transporter, ATP-bindin	Arginine and Ornithine Degradation	Arginine; urea cycle, poly	Amino Acic		2003660	2004430	ref000001
1876	VCN16961	VCN16961.4394	NC_002505	2006954..2009230	+	2277	VC1866	Pyruvate formate-lyase (EC 2.3.1.54)	Formate hydrogenase	Respiration - no subcateg	Respiratior		2006954	2009230	ref000001
1878	VCN16961	VCN16961.1843	NC_002505	2012292..2010412	-	1881	VC1868	Methyl-accepting chemotaxis protein					2010412	2012292	ref000001
1879	VCN16961	VCN16961.1844	NC_002505	2012625..2013365	+	741	VC1869	Pyruvate formate-lyase activating enzyme (EC	Formate hydrogenase	Respiration - no subcateg	Respiratior		2012625	2013365	ref000001
1885	VCN16961	VCN16961.1850	NC_002505	2020711..2019953	-	759	VC1875	3-deoxy-manno-octulosonate cytidylyltransfera	KDO2-Lipid A biosynthesis	Gram-Negative cell wall c	Cell Wall a		2019953	2020711	ref000001
1887	VCN16961	VCN16961.1852	NC_002505	2021881..2020871	-	1011	VC1877	Tetraacyldisaccharide 4'-kinase (EC 2.7.1.130)	KDO2-Lipid A biosynthesis	Gram-Negative cell wall c	Cell Wall a		2020871	2021881	ref000001
1888	VCN16961	VCN16961.1853	NC_002505	2023629..2021881	-	1749	VC1878	Lipid A export ATP-binding/permease protein M	KDO2-Lipid A biosynthesis	Gram-Negative cell wall c	Cell Wall a		2021881	2023629	ref000001
1889	VCN16961	VCN16961.1854	NC_002505	2025918..2023660	-	2259	VC1879	Predicted hydrolase of the metallo-beta-lactam	KDO2-Lipid A biosynthesis	Gram-Negative cell wall c	Cell Wall a		2023660	2025918	ref000001
1892	VCN16961	VCN16961.1857	NC_002505	2027801..2026557	-	1245	VC1882	Lipoprotein releasing system transmembrane p	Lipoprotein sorting system	Gram-Negative cell wall c	Cell Wall a		2026557	2027801	ref000001
1893	VCN16961	VCN16961.1858	NC_002505	2028488..2027802	-	687	VC1883	Lipoprotein releasing system ATP-binding prote	Lipoprotein sorting system	Gram-Negative cell wall c	Cell Wall a		2027802	2028488	ref000001
1894	VCN16961	VCN16961.1859	NC_002505	2029701..2028481	-	1221	VC1884	Lipoprotein releasing system transmembrane p	Lipoprotein sorting system	Gram-Negative cell wall c	Cell Wall a		2028481	2029701	ref000001
1896	VCN16961	VCN16961.1861	NC_002505	2030443..2033910	+	3468	VC1886	Transcription-repair coupling factor	CBSS-281309.1.peg.50	Transcription	RNA Metal		2030443	2033910	ref000001
1898	VCN16961	VCN16961.1863	NC_002505	2035185..2037260	+	2076	VC1888	Hemolysin-related protein Vcp	Vibrio Polysaccharide (VPS) Biosynthe	Regulation of virulence	Virulence		2035185	2037260	ref000001
1900	VCN16961	VCN16961.4279	NC_002505	2039483..2038194	-	1290	VC1890	NADH dehydrogenase (EC 1.6.99.3)	Respiratory dehydrogenases 1	Electron donating reactior	Respiratior		2038194	2039483	ref000001
1910	VCN16961	VCN16961.1875	NC_002505	2048907..2048068	-	840	VC1900	Transcriptional regulator for fatty acid degradat	Fatty acid degradation regulons				2048068	2048907	ref000001
1912	VCN16961	VCN16961.1877	NC_002505	2051224..2051745	+	522	VC1902	Periplasmic thiol:disulfide oxidoreductase DsbE	Periplasmic disulfide interchange	Protein folding	Protein Me		2051224	2051745	ref000001
1936	VCN16961	VCN16961.1901	NC_002505	2077537..2078877	+	1341	VC1926	C4-dicarboxylate transport transcriptional regulatory protein					2077537	2078877	ref000001
1938	VCN16961	VCN16961.1903	NC_002505	2081056..2080358	-	699	VC1928	TRAP-type C4-dicarboxylate transport system,	CBSS-49338.1.peg.459				2080358	2081056	ref000001
1939	VCN16961	VCN16961.1904	NC_002505	2082085..2081087	-	999	VC1929	TRAP-type C4-dicarboxylate transport system,	CBSS-49338.1.peg.459				2081087	2082085	ref000001
1941	VCN16961	VCN16961.4115	NC_002505	2083786..2082317	-	1470	VC1931	Selenoprotein O and cysteine-containing homo	Selenoprotein O	Selenoproteins	Miscellane		2082317	2083786	ref000001
1949	VCN16961	VCN16961.1914	NC_002505	2090031..2090651	+	621	VC1939	Putative threonine efflux protein					2090031	2090651	ref000001
1950	VCN16961	VCN16961.1915	NC_002505	2091360..2090698	-	663	VC1940	Phosphoserine phosphatase					2090698	2091360	ref000001
1951	VCN16961	VCN16961.1916	NC_002505	2092968..2091673	-	1296	VC1941	OpgC protein	Synthesis of osmoregulated periplasmic glucans				2091673	2092968	ref000001
1952	VCN16961	VCN16961.4280	NC_002505	2093598..2094458	+	861	VC1942	Methylenetetrahydrofolate dehydrogenase (NA	5-FCL-like protein Experimental	Folate and pterines	Cofactors,		2093598	2094458	ref000001
1954	VCN16961	VCN16961.1919	NC_002505	2094741..2095604	+	864	VC1944	PvcB protein					2094741	2095604	ref000001
1955	VCN16961	VCN16961.1920	NC_002505	2095589..2097052	+	1464	VC1945	FAD monooxygenase, PheA/TfdB family					2095589	2097052	ref000001
1957	VCN16961	VCN16961.1922	NC_002505	2098112..2097183	-	930	VC1947	Transcriptional regulator, LysR family					2097183	2098112	ref000001
1959	VCN16961	VCN16961.1924	NC_002505	2098432..2100258	+	1827	VC1949	pvcA protein					2098432	2100258	ref000001
1960	VCN16961	VCN16961.1925	NC_002505	2102795..2100348	-	2448	VC1950	Biotin sulfoxide reductase (EC 1.-.-.-)	trimethylamine N-oxide (TMAO) reduc	Electron accepting reactic	Respiratior		2100348	2102795	ref000001
1961	VCN16961	VCN16961.1926	NC_002505	2103924..2102818	-	1107	VC1951	Cytochrome c-type protein torY	trimethylamine N-oxide (TMAO) reduc	Electron accepting reactic	Respiratior		2102818	2103924	ref000001
1965	VCN16961	VCN16961.1930	NC_002505	2109478..2108531	-	948	VC1955	Transcriptional regulator					2108531	2109478	ref000001
1972	VCN16961	VCN16961.1937	NC_002505	2113168..2113659	+	492	VC1962	Lipoprotein					2113168	2113659	ref000001
1973	VCN16961	VCN16961.4404	NC_002505	2114070..2113726	-	345	VC1963	COGs COG3492	Experimental-PTPS				2113726	2114070	ref000001
1976	VCN16961	VCN16961.1941	NC_002505	2115867..2117747	+	1881	VC1966	Lysophospholipid transporter LplT / 2-acylglycer	ophosphoethanolamine acyltransferase (EC 2.3.1.40) / Acyl-[acyl-carrier-p				2115867	2117747	ref000001
1982	VCN16961	VCN16961.1947	NC_002505	2124259..2123261	-	999	VC1972	O-succinylbenzoate-CoA synthase (EC 4.2.1.-)	Menaquinone and Phylloquinone Bios	Quinone cofactors	Cofactors,		2123261	2124259	ref000001
1983	VCN16961	VCN16961.3936	NC_002505	2125225..2124347	-	879	VC1973	Naphthoate synthase (EC 4.1.3.36)	Menaquinone and Phylloquinone Bios	Quinone cofactors	Cofactors,		2124347	2125225	ref000001
1984	VCN16961	VCN16961.1949	NC_002505	2126029..2125238	-	792	VC1974	Menaquinone biosynthesis related protein, putz	Synechocystis experimental	Quinone cofactors	Cofactors,		2125238	2126029	ref000001
1985	VCN16961	VCN16961.1950	NC_002505	2127731..2126019	-	1713	VC1975	2-succinyl-6-hydroxy-2,4-cyclohexadiene-1-car	Menaquinone and Phylloquinone Bios	Quinone cofactors	Cofactors,		2126019	2127731	ref000001
1986	VCN16961	VCN16961.1951	NC_002505	2129035..2127728	-	1308	VC1976	Menaquinone-specific isochorismate synthase	Siderophores of catechol family	Quinone cofactors	Cofactors,		2127728	2129035	ref000001
1987	VCN16961	VCN16961.1952	NC_002505	2129250..2130464	+	1215	VC1977	Aspartate aminotransferase (EC 2.6.1.1)	Threonine and Homoserine Biosynthe	Glutamine, glutamate, as	Amino Acic		2129250	2130464	ref000001
1989	VCN16961	VCN16961.1954	NC_002505	2131258..2132583	+	1326	VC1979	Deoxyguanosinetriphosphate triphosphohydrol	Purine conversions	Purines	Nucleoside		2131258	2132583	ref000001

1994	VCN16961	VCN16961.1959	NC_002505	2137015..2135870	-	1146	VC1984	Ribonuclease D (EC 3.1.26.3)	Experimental tye	RNA processing and mod	RNA Metal	2135870	2137015	ref000001	
1999	VCN16961	VCN16961.1964	NC_002505	2141429..2140716	-	714	VC1989	Inactive homolog of metal-dependent protease:	YgjD and YeaZ	Cell Wall and Capsule - n	Cell Wall a	2140716	2141429	ref000001	
2000	VCN16961	VCN16961.1965	NC_002505	2143366..2141426	-	1941	VC1990	DinG family ATP-dependent helicase YoaA	DNA repair, bacterial	DNA repair	DNA Metal	2141426	2143366	ref000001	
2002	VCN16961	VCN16961.1967	NC_002505	2143931..2144764	+	834	VC1992	Formyltetrahydrofolate deformylase (EC 3.5.1.:	One-carbon metabolism by tetrahydro	One-carbon Metabolism	Carbohydr	2143931	2144764	ref000001	
2003	VCN16961	VCN16961.1968	NC_002505	2146838..2144838	-	2001	VC1993	2,4-dienoyl-CoA reductase [NADPH] (EC 1.3.1	Iron-sulfur experimental			2144838	2146838	ref000001	
2013	VCN16961	VCN16961.4120	NC_002505	2155892..2156710	+	819	VC2003	rRNA (guanine-N1-)-methyltransferase				2155892	2156710	ref000001	
2014	VCN16961	VCN16961.4275	NC_002505	2156788..2157708	+	921	VC2004	Uncharacterized iron-regulated protein				2156788	2157708	ref000001	
2016	VCN16961	VCN16961.1981	NC_002505	2159222..2158278	-	945	VC2006	Chemotaxis protein CheV (EC 2.7.3.-)	Bacterial Chemotaxis	Motility and Chemotaxis -	Motility and	2158278	2159222	ref000001	
2017	VCN16961	VCN16961.1982	NC_002505	2160544..2159327	-	1218	VC2007	Mlc, transcriptional repressor of MalT (the trans	Maltose and Maltodextrin Utilization	Di- and oligosaccharides	Carbohydr	2159327	2160544	ref000001	
2018	VCN16961	VCN16961.1983	NC_002505	2160989..2162434	+	1446	VC2008	Pyruvate kinase (EC 2.7.1.40)	Glycerate metabolism	Central carbohydrate met	Carbohydr	2160989	2162434	ref000001	
2019	VCN16961	VCN16961.1984	NC_002505	2163645..2162476	-	1170	VC2009	SERINE PROTEASE (EC 3.4.21.-)				2162476	2163645	ref000001	
2022	VCN16961	VCN16961.4292	NC_002505	2164974..2166434	+	1461	VC2012	Sodium-dependent transporter				2164974	2166434	ref000001	
2023	VCN16961	VCN16961.4034	NC_002505	2168077..2166647	-	1431	VC2013	PTS system, glucose-specific IIB component (E	PTS uptake system scrtach	Di- and oligosaccharides	Carbohydr	2166647	2168077	ref000001	
2024	VCN16961	VCN16961.1989	NC_002505	2169288..2168521	-	768	VC2014	Putative deoxyribonuclease YcfH	rRNA methylation in clusters	DNA Metabolism - no sub	DNA Metal	2168521	2169288	ref000001	
2025	VCN16961	VCN16961.1990	NC_002505	2170253..2169279	-	975	VC2015	DNA polymerase III delta prime subunit (EC 2.7	Heat shock dnaK gene cluster extend	DNA replication	DNA Metal	2169279	2170253	ref000001	
2026	VCN16961	VCN16961.1991	NC_002505	2170884..2170246	-	639	VC2016	Thymidylate kinase (EC 2.7.4.9)	pyrimidine conversions v2	Pyrimidines	Nucleoside	2170246	2170884	ref000001	
2027	VCN16961	VCN16961.1992	NC_002505	2171897..2170881	-	1017	VC2017	COG1559 protein yceG like	CBSS-281090.3.peg.464			2170881	2171897	ref000001	
2028	VCN16961	VCN16961.1993	NC_002505	2172727..2171894	-	834	VC2018	Aminodeoxychorismate lyase (EC 4.1.3.38)	Folate Biosynthesis	Folate and pterines	Cofactors,	2171894	2172727	ref000001	
2029	VCN16961	VCN16961.1994	NC_002505	2174019..2172775	-	1245	VC2019	3-oxoacyl-[acyl-carrier-protein] synthase, KASI	Unsaturated Fatty Acid Metabolism	Fatty acids	Fatty Acids	2172775	2174019	ref000001	
2041	VCN16961	VCN16961.4210	NC_002505	2184956..2186515	+	1560	VC2031	Sulfate permease	Superpathway of cysteine biosynthesi	Lysine, threonine, methio	Amino Acid	2184956	2186515	ref000001	
2046	VCN16961	VCN16961.2011	NC_002505	2192769..2191657	-	1113	VC2036	Aspartate-semialdehyde dehydrogenase (EC 1	Lysine Biosynthesis DAP Pathway	Lysine, threonine, methio	Amino Acid	2191657	2192769	ref000001	
2047	VCN16961	VCN16961.2012	NC_002505	2193194..2194639	+	1446	VC2037	Na+/H+ antiporter NhaC				2193194	2194639	ref000001	
2049	VCN16961	VCN16961.2014	NC_002505	2197042..2196041	-	1002	VC2039	Nucleoid-associated protein ndpA 1				2196041	2197042	ref000001	
2056	VCN16961	VCN16961.2021	NC_002505	2203856..2204392	+	537	VC2046	Potential queD like 2				2203856	2204392	ref000001	
2059	VCN16961	VCN16961.3909	NC_002505	2207485..2206271	-	1215	VC2049	Cytochrome c heme lyase subunit CcmH	Copper homeostasis	Respiration - no subcateg	Respiration	2206271	2207485	ref000001	
2061	VCN16961	VCN16961.2024	NC_002505	2208515..2207961	-	555	VC2051	Cytochrome c-type biogenesis protein CcmG/D	Periplasmic disulfide interchange	Protein folding	Protein Me	2207961	2208515	ref000001	
2062	VCN16961	VCN16961.2025	NC_002505	2210471..2208516	-	1956	VC2052	Cytochrome c heme lyase subunit CcmF	Copper homeostasis	Respiration - no subcateg	Respiration	2208516	2210471	ref000001	
2063	VCN16961	VCN16961.2026	NC_002505	2210950..2210468	-	483	VC2053	Cytochrome c-type biogenesis protein CcmE, h	Copper homeostasis	Respiration - no subcateg	Respiration	2210468	2210950	ref000001	
2064	VCN16961	VCN16961.2027	NC_002505	2211153..2210947	-	207	VC2054	Cytochrome c-type biogenesis protein CcmD, i	Biogenesis of c-type cytochromes	Respiration - no subcateg	Respiration	2210947	2211153	ref000001	
2065	VCN16961	VCN16961.2028	NC_002505	2211905..2211153	-	753	VC2055	Cytochrome c-type biogenesis protein CcmC, p	Biogenesis of c-type cytochromes	Respiration - no subcateg	Respiration	2211153	2211905	ref000001	
2067	VCN16961	VCN16961.2030	NC_002505	2213284..2212661	-	624	VC2057	ABC transporter involved in cytochrome c biog	Biogenesis of c-type cytochromes	Respiration - no subcateg	Respiration	212661	2213284	ref000001	
2069	VCN16961	VCN16961.4393	NC_002505	2214631..2214137	-	495	VC2059	Positive regulator of CheA protein activity (Che	Bacterial Chemotaxis	Motility and Chemotaxis -	Motility and	2214137	2214631	ref000001	
2072	VCN16961	VCN16961.2035	NC_002505	2217598..2216465	-	1134	VC2062	Chemotaxis response regulator protein-glutam	Bacterial Chemotaxis	Motility and Chemotaxis -	Motility and	2216465	2217598	ref000001	
2073	VCN16961	VCN16961.2036	NC_002505	2219982..2217625	-	2358	VC2063	Chemotaxis protein CheA (EC 2.7.3.-)	Bacterial Chemotaxis	Motility and Chemotaxis -	Motility and	2217625	2219982	ref000001	
2074	VCN16961	VCN16961.2037	NC_002505	2220711..2219992	-	720	VC2064	Chemotaxis response - phosphatase CheZ	Bacterial Chemotaxis	Motility and Chemotaxis -	Motility and	2219992	2220711	ref000001	
2075	VCN16961	VCN16961.2038	NC_002505	2221159..2220767	-	393	VC2065	Chemotaxis regulator - transmits chemorecept	Bacterial Chemotaxis	Motility and Chemotaxis -	Motility and	2220767	2221159	ref000001	
2076	VCN16961	VCN16961.2039	NC_002505	2221915..2221181	-	735	VC2066	RNA polymerase sigma factor for flagellar oper	Transcription initiation, bacterial sigma	Transcription	RNA Metal	2221181	2221915	ref000001	
2077	VCN16961	VCN16961.3979	NC_002505	2222795..2221908	-	888	VC2067	Flagellar synthesis regulator fleN	Flagellum	Flagellar motility in Proka	Motility and	2221908	2222795	ref000001	
2079	VCN16961	VCN16961.2042	NC_002505	2226424..2224331	-	2094	VC2069	Flagellar biosynthesis protein flhA	Motility of Campylobacter	Flagellar motility in Proka	Motility and	2224331	2226424	ref000001	
2084	VCN16961	VCN16961.4369	NC_002505	2230985..2232718	+	1734	VC2074	Arginyl-tRNA synthetase (EC 6.1.1.19)	tRNA aminoacylation	Protein biosynthesis	Protein Me	2230985	2232718	ref000001	
2085	VCN16961	VCN16961.2048	NC_002505	2232809..2233252	+	444	VC2075	Histidine triad family protein				2232809	2233252	ref000001	
2086	VCN16961	VCN16961.2049	NC_002505	2233744..2233514	-	231	VC2076	Ferrous iron transport protein C	Iron acquisition in Vibrio	Iron Scavenging Mechani	Virulence	2233514	2233744	ref000001	
2087	VCN16961	VCN16961.2050	NC_002505	2236017..2233741	-	2277	VC2077	Ferrous iron transport protein B	Transport of Iron	Iron Scavenging Mechani	Virulence	2233741	2236017	ref000001	
2088	VCN16961	VCN16961.2051	NC_002505	2236244..2236014	-	231	VC2078	Ferrous iron transport protein A	Transport of Iron	Iron Scavenging Mechani	Virulence	2236014	2236244	ref000001	
2090	VCN16961	VCN16961.2053	NC_002505	2240381..2237016	-	3366	VC2080	Signal transduction histidine kinase				2237016	2240381	ref000001	
2091	VCN16961	VCN16961.2054	NC_002505	2241456..2240563	-	894	VC2081	Zinc ABC transporter, periplasmic-binding prote	Transport of Zinc			2240563	2241456	ref000001	
2092	VCN16961	VCN16961.2055	NC_002505	2241531..2242319	+	789	VC2082	Zinc ABC transporter, ATP-binding protein Znu	Transport of Zinc			2241531	2242319	ref000001	
2093	VCN16961	VCN16961.2056	NC_002505	2242312..2243094	+	783	VC2083	Zinc ABC transporter, inner membrane permea	Transport of Zinc			2242312	2243094	ref000001	
2094	VCN16961	VCN16961.2057	NC_002505	2244073..2243201	-	873	VC2084	Succinyl-CoA ligase [ADP-forming] alpha chain	TCA Cycle	Central carbohydrate met	Carbohydr	2243201	2244073	ref000001	
2095	VCN16961	VCN16961.2058	NC_002505	2245239..2244073	-	1167	VC2085	Succinyl-CoA ligase [ADP-forming] beta chain	TCA Cycle	Central carbohydrate met	Carbohydr	2244073	2245239	ref000001	
2097	VCN16961	VCN16961.2060	NC_002505	2249460..2246650	-	2811	VC2087	2-oxoglutarate dehydrogenase E1 component (	TCA Cycle	Central carbohydrate met	Carbohydr	2246650	2249460	ref000001	
2098	VCN16961	VCN16961.2061	NC_002505	2250259..2249549	-	711	VC2088	Succinate dehydrogenase iron-sulfur protein (E	TCA Cycle	Electron donating reactior	Respiration	2249549	2250259	ref000001	
2099	VCN16961	VCN16961.2062	NC_002505	2252040..2250274	-	1767	VC2089	Succinate dehydrogenase flavoprotein subunit	TCA Cycle	Electron donating reactior	Respiration	2250274	2252040	ref000001	
2102	VCN16961	VCN16961.4371	NC_002505	2253167..2254456	+	1290	VC2092	Citrate synthase (si) (EC 2.3.3.1)	TCA Cycle	Respiration - no subcateg	Respiration	2253167	2254456	ref000001	
2105	VCN16961	VCN16961.2068	NC_002505	2257800..2256154	-	1647	VC2095	Phosphoglucomutase (EC 5.4.2.2)	Sucrose Metabolism	Di- and oligosaccharides	Carbohydr	2256154	2257800	ref000001	
2124	VCN16961	VCN16961.2085	NC_002505	2271153..2270623	-	531	VC2113	Putative transporting ATPase				2270623	2271153	ref000001	
2127	VCN16961	VCN16961.2088	NC_002505	2273307..2272222	-	1086	VC2116	Chorismate synthase (EC 4.2.3.5)	Common Pathway For Synthesis of Ar	Aromatic amino acids and	Amino Acid	2272222	2273307	ref000001	
2128	VCN16961	VCN16961.2090	NC_002505	2274481..2273537	-	945	VC2118	Hypothetical adenine-specific methylase yfcB	Experimental tye			2273537	2274481	ref000001	
2130	VCN16961	VCN16961.2092	NC_002505	2276234..2275104	-	1131	VC2120	Flagellar biosynthesis protein flhB	Motility of Campylobacter	Flagellar motility in Proka	Motility and	2275104	2276234	ref000001	
2131	VCN16961	VCN16961.2093	NC_002505	2277026..2276244	-	783	VC2121	Flagellar biosynthesis protein fliR	Motility of Campylobacter	Flagellar motility in Proka	Motility and	2276244	2277026	ref000001	
2132	VCN16961	VCN16961.2094	NC_002505	2277304..2277035	-	270	VC2122	Flagellar biosynthesis protein fliQ	Flagellum	Flagellar motility in Proka	Motility and	2277035	2277304	ref000001	
2133	VCN16961	VCN16961.2095	NC_002505	2278216..2277317	-	900	VC2123	Flagellar biosynthesis protein fliP	Flagellum	Flagellar motility in Proka	Motility and	2277317	2278216	ref000001	
2134	VCN16961	VCN16961.2096	NC_002505	2278583..2278194	-	390	VC2124	Flagellar biosynthesis protein fliO	Flagellum	Flagellar motility in Proka	Motility and	2278194	2278583	ref000001	
2135	VCN16961	VCN16961.4166	NC_002505	2278997..2278587	-	411	VC2125	Flagellar motor switch protein fliN	Bacterial Chemotaxis	Motility and Chemotaxis -	Motility and	2278587	2278997	ref000001	
2136	VCN16961	VCN16961.2098	NC_002505	2280117..2279068	-	1050	VC2126	Flagellar motor switch protein fliM	Bacterial Chemotaxis	Motility and Chemotaxis -	Motility and	2279068	2280117	ref000001	
2137	VCN16961	VCN16961.2099	NC_002505	2280628..2280125	-	504	VC2127	Flagellar biosynthesis protein fliL	Flagellum	Flagellar motility in Proka	Motility and	2280125	2280628	ref000001	
2138	VCN16961	VCN16961.2100	NC_002505	2282687..2280663	-	2025	VC2128	Flagellar hook-length control protein fliK	Flagellum	Flagellar motility in Proka	Motility and	2280663	2282687	ref000001	
2139	VCN16961	VCN16961.4050	NC_002505	2283294..2282851	-	444	VC2129	Flagellar protein fliJ	Flagellum	Flagellar motility in Proka	Motility and	2282851	2283294	ref000001	
2140	VCN16961	VCN16961.2102	NC_002505	2284628..2283309	-	1320	VC2130	Flagellum-specific ATP synthase fliI	Motility of Campylobacter	Flagellar motility in Proka	Motility and	2283309	2284628	ref000001	
2141	VCN16961	VCN16961.4247	NC_002505	2285432..2284632	-	801	VC2131	Flagellar assembly protein fliH	Flagellum	Flagellar motility in Proka	Motility and	2284632	2285432	ref000001	
2143	VCN16961	VCN16961.2105	NC_002505	2288306..2286564	-	1743	VC2133	Flagellar M-ring protein fliF	Flagellum	Flagellar motility in Proka	Motility and	2286564	2288306	ref000001	
2144	VCN16961	VCN16961.3948	NC_002505	2288633..2288322	-	312	VC2134	Flagellar hook-basal body complex protein fliE	Flagellum	Flagellar motility in Proka	Motility and	2288322	2288633	ref000001	
2145	VCN16961	VCN16961.4242	NC_002505	2290142..2288709	-	1434	VC2135	Sigma-54 dependent response regulator				2288709	2290142	ref000001	
2146	VCN16961	VCN16961.2108	NC_002505	2291200..2290145	-	1056	VC2136	Flagellar sensor histidine kinase fleS	Flagellum	Flagellar motility in Proka	Motility and	2290145	2291200	ref000001	
2147	VCN16961	VCN16961.2109	NC_002505	2292778..2291312	-	1467	VC2137	Flagellar regulatory protein fleQ	Flagellum	Flagellar motility in Proka	Motility and	2291312	2292778	ref000001	

2148	VCN16961	VCN16961.2110	NC_002505	2293420..2293010	-	411	VC2138	Flagellar biosynthesis protein fliS	Flagellum	Flagellar motility in Proka	Motility and	2293010	2293420	ref000001
2151	VCN16961	VCN16961.2113	NC_002505	2296221..2295760	-	462	VC2141	Flagellin protein flaG	Flagellum	Flagellar motility in Proka	Motility and	2295760	2296221	ref000001
2152	VCN16961	VCN16961.2114	NC_002505	2297425..2296295	-	1131	VC2142	Flagellin protein flaB	Flagellum	Flagellar motility in Proka	Motility and	2296295	2297425	ref000001
2153	VCN16961	VCN16961.2115	NC_002505	2298794..2297661	-	1134	VC2143	Flagellin protein flaD	Flagellum	Flagellar motility in Proka	Motility and	2297661	2298794	ref000001
2154	VCN16961	VCN16961.2116	NC_002505	2300220..2299084	-	1137	VC2144	Flagellin protein flaF	Flagellum	Flagellar motility in Proka	Motility and	2299084	2300220	ref000001
2155	VCN16961	VCN16961.2117	NC_002505	2301252..2300344	-	909	VC2145	TyrA protein				2300344	2301252	ref000001
2160	VCN16961	VCN16961.3990	NC_002505	2302887..2303234	+	348	VC2150	FIG132708: a glutathione-dependent thiol redu	A Glutathione-dependent Thiol Reductase Assoiated with a Step in Lysine B			2302887	2303234	ref000001
2162	VCN16961	VCN16961.2124	NC_002505	2303265..2304398	+	1134	VC2152	N-succinyl-L,L-diaminopimelate desuccinylase	A Glutathione-dependent Thiol Reduc	Arginine; urea cycle, poly	Amino Acid	2303265	2304398	ref000001
2163	VCN16961	VCN16961.2125	NC_002505	2304326..2305075	+	750	VC2153	D,D-carboxypeptidase-related protein				2304326	2305075	ref000001
2166	VCN16961	VCN16961.2128	NC_002505	2306401..2305382	-	1020	VC2156	Outer membrane protein NlpB, lipoprotein com	Lipopolysaccharide assembly	Gram-Negative cell wall c	Cell Wall a	2305382	2306401	ref000001
2167	VCN16961	VCN16961.2129	NC_002505	2307337..2306459	-	879	VC2157	Dihydrodipicolinate synthase (EC 4.2.1.52)	Lysine Biosynthesis DAP Pathway	Lysine, threonine, methio	Amino Acid	2306459	2307337	ref000001
2169	VCN16961	VCN16961.2131	NC_002505	2307615..2308157	+	543	VC2159	Glycine cleavage system transcriptional antiact	Orphan regulatory proteins	Regulation and Cell signa	Regulation	2307615	2308157	ref000001
2170	VCN16961	VCN16961.2132	NC_002505	2308172..2308639	+	468	VC2160	Thiol peroxidase, Bcp-type (EC 1.11.1.15)	CBSS-316057.3.peg.3521	Sulfur Metabolism - no su	Sulfur Meta	2308172	2308639	ref000001
2171	VCN16961	VCN16961.2133	NC_002505	2310612..2308741	-	1872	VC2161	Methyl-accepting chemotaxis protein				2308741	2310612	ref000001
2172	VCN16961	VCN16961.2134	NC_002505	2311867..2310803	-	1065	VC2162	Putative permease PerM (= YfgO)	ZZ gjo need homes	Miscellaneous - no subca	Miscellane	2310803	2311867	ref000001
2174	VCN16961	VCN16961.2136	NC_002505	2312280..2313734	+	1455	VC2164	Zinc metalloprotease (EC 3.4.24.-)				2312280	2313734	ref000001
2175	VCN16961	VCN16961.2137	NC_002505	2313757..2314107	+	351	VC2165	Arsenate reductase (EC 1.20.4.1)	Anaerobic respiratory reductases	Electron accepting reactic	Respiration	2313757	2314107	ref000001
2176	VCN16961	VCN16961.2138	NC_002505	2314104..2314664	+	561	VC2166	Trp repressor-binding protein				2314104	2314664	ref000001
2181	VCN16961	VCN16961.2143	NC_002505	2316680..2317933	+	1254	VC2171	Xanthine/uracil permease				2316680	2317933	ref000001
2184	VCN16961	VCN16961.2146	NC_002505	2320282..2318621	-	1662	VC2174	UDP-sugar hydrolase (EC 3.6.1.45); 5'-nucleot	CBSS-176279.3.peg.298	Pyrimidines	Nucleoside	2318621	2320282	ref000001
2190	VCN16961	VCN16961.2152	NC_002505	2326147..2324888	-	1260	VC2180	Glutamyl-tRNA reductase (EC 1.2.1.70)	A Gammaproteobacteria Cluster Relat	Tetrapyrroles	Cofactors,	2324888	2326147	ref000001
2197	VCN16961	VCN16961.2159	NC_002505	2334101..2332968	-	1134	VC2187	Flagellin protein flaC	Flagellum	Flagellar motility in Proka	Motility and	2332968	2334101	ref000001
2198	VCN16961	VCN16961.2160	NC_002505	2335795..2334656	-	1140	VC2188	Flagellin protein flaA	Flagellum	Flagellar motility in Proka	Motility and	2334656	2335795	ref000001
2201	VCN16961	VCN16961.2163	NC_002505	2339283..2337409	-	1875	VC2191	Flagellar hook-associated protein flgK	Flagellum	Flagellar motility in Proka	Motility and	2337409	2339283	ref000001
2202	VCN16961	VCN16961.2164	NC_002505	2340401..2339463	-	939	VC2192	Flagellar protein flgJ [peptidoglycan hydrolase]	Flagellum	Flagellar motility in Proka	Motility and	2339463	2340401	ref000001
2203	VCN16961	VCN16961.2165	NC_002505	2341497..2340412	-	1086	VC2193	Flagellar P-ring protein flgI	Flagellum	Flagellar motility in Proka	Motility and	2340412	2341497	ref000001
2204	VCN16961	VCN16961.4135	NC_002505	2342364..2341588	-	777	VC2194	Flagellar L-ring protein flgH	Motility of Campylobacter	Flagellar motility in Proka	Motility and	2341588	2342364	ref000001
2205	VCN16961	VCN16961.2167	NC_002505	2343176..2342388	-	789	VC2195	Flagellar basal-body rod protein flgG	Flagellum	Flagellar motility in Proka	Motility and	2342388	2343176	ref000001
2206	VCN16961	VCN16961.2168	NC_002505	2343945..2343196	-	750	VC2196	Flagellar basal-body rod protein flgF	Flagellum	Flagellar motility in Proka	Motility and	2343196	2343945	ref000001
2207	VCN16961	VCN16961.2169	NC_002505	2345432..2344128	-	1305	VC2197	Flagellar hook protein flgE	Flagellum	Flagellar motility in Proka	Motility and	2344128	2345432	ref000001
2208	VCN16961	VCN16961.2170	NC_002505	2346168..2345461	-	708	VC2198	Flagellar basal-body rod modification protein flg	Motility of Campylobacter	Flagellar motility in Proka	Motility and	2345461	2346168	ref000001
2209	VCN16961	VCN16961.2171	NC_002505	2346602..2346186	-	417	VC2199	Flagellar basal-body rod protein flgC	Flagellum	Flagellar motility in Proka	Motility and	2346186	2346602	ref000001
2212	VCN16961	VCN16961.2174	NC_002505	2348986..2348060	-	927	VC2202	Chemotaxis protein CheV (EC 2.7.3.-)	Bacterial Chemotaxis	Motility and Chemotaxis -	Motility and	2348060	2348986	ref000001
2213	VCN16961	VCN16961.2175	NC_002505	2349043..2349810	+	768	VC2203	Flagellar basal-body P-ring formation protein flg	Flagellum	Flagellar motility in Proka	Motility and	2349043	2349810	ref000001
2214	VCN16961	VCN16961.2176	NC_002505	2349941..2350264	+	324	VC2204	Negative regulator of flagellin synthesis flgM	Flagellum	Flagellar motility in Proka	Motility and	2349941	2350264	ref000001
2215	VCN16961	VCN16961.4347	NC_002505	2350368..2350793	+	426	VC2205	Flagellar biosynthesis protein flgN	Flagellum	Flagellar motility in Proka	Motility and	2350368	2350793	ref000001
2221	VCN16961	VCN16961.2182	NC_002505	2361720..2360905	-	816	VC2210	Vibriobactin utilization protein ViuB	Iron acquisition in Vibrio	Iron Scavenging Mechani	Virulence	2360905	2361720	ref000001
2222	VCN16961	VCN16961.2183	NC_002505	2364087..2362024	-	2064	VC2211	Ferric vibriobactin receptor ViuA	Iron acquisition in Vibrio	Iron Scavenging Mechani	Virulence	2362024	2364087	ref000001
2223	VCN16961	VCN16961.3966	NC_002505	2364699..2365205	+	507	VC2212	Hypothetical protein, specific for Vibrio				2364699	2365205	ref000001
2226	VCN16961	VCN16961.3987	NC_002505	2368179..2370899	+	2721	VC2215	Lead, cadmium, zinc and mercury transporting	Copper homeostasis	Electron accepting reactic	Respiration	2368179	2370899	ref000001
2227	VCN16961	VCN16961.4004	NC_002505	2370908..2371348	+	441	VC2216	CopG protein	Copper homeostasis	Stress Response - no sub	Stress Res	2370908	2371348	ref000001
2234	VCN16961	VCN16961.4041	NC_002505	2376896..2377882	+	987	VC2223	Ribosomal large subunit pseudouridine synthase	F (EC 5.4.99.-)			2376896	2377882	ref000001
2235	VCN16961	VCN16961.2196	NC_002505	2379518..2377980	-	1539	VC2224	GGDEF family protein				2377980	2379518	ref000001
2237	VCN16961	VCN16961.2198	NC_002505	2380542..2381582	+	1041	VC2226	Phosphoribosylformylglycinamidine cyclo-ligase	De Novo Purine Biosynthesis	Purines	Nucleoside	2380542	2381582	ref000001
2238	VCN16961	VCN16961.2199	NC_002505	2381585..2382223	+	639	VC2227	Phosphoribosylglycinamide formyltransferase (	Glutathione-regulated potassium-efflu	Potassium metabolism - r	Potassium	2381585	2382223	ref000001
2240	VCN16961	VCN16961.2201	NC_002505	2383209..2382364	-	846	VC2229	Predicted glutamine amidotransferase				2382364	2383209	ref000001
2241	VCN16961	VCN16961.2202	NC_002505	2383847..2383272	-	576	VC2230	Phosphoheptose isomerase (EC 5.-.-.-)	Capsular heptose biosynthesis	Gram-Negative cell wall c	Cell Wall a	2383272	2383847	ref000001
2242	VCN16961	VCN16961.2203	NC_002505	2384165..2386609	+	2445	VC2231	Acyl-CoA dehydrogenase, short-chain specific	Acetyl-CoA fermentation to Butyrate	Electron accepting reactic	Respiration	2384165	2386609	ref000001
2245	VCN16961	VCN16961.2206	NC_002505	2388824..2389294	+	471	VC2234	Ribonuclease HI (EC 3.1.26.4)	CBSS-228410.1.peg.134	RNA processing and mod	RNA Metal	2388824	2389294	ref000001
2246	VCN16961	VCN16961.2207	NC_002505	2390102..2389365	-	738	VC2235	SAM-dependent methyltransferase (EC 2.1.1.-)	CBSS-228410.1.peg.134			2389365	2390102	ref000001
2247	VCN16961	VCN16961.2208	NC_002505	2390140..2390898	+	759	VC2236	Hydroxyacylglutathione hydrolase (EC 3.1.2.6)	CBSS-228410.1.peg.134	Potassium metabolism - r	Potassium	2390140	2390898	ref000001
2248	VCN16961	VCN16961.2209	NC_002505	2390970..2392568	+	1599	VC2237	Membrane-bound lytic murein transglycosylase	CBSS-228410.1.peg.134	Central carbohydrate met	Carbohydr	2390970	2392568	ref000001
2250	VCN16961	VCN16961.2211	NC_002505	2393842..2393498	-	345	VC2239	Nitrogen regulatory protein P-II	Ammonia assimilation	Nitrogen Metabolism - no	Nitrogen M	2393498	2393842	ref000001
2251	VCN16961	VCN16961.2212	NC_002505	2394520..2393996	-	525	VC2240	Phenolic acid decarboxylase (EC 4.1.1.-)				2393996	2394520	ref000001
2252	VCN16961	VCN16961.4017	NC_002505	2395208..2394897	-	312	VC2241	cytochrome c554				2394897	2395208	ref000001
2253	VCN16961	VCN16961.2214	NC_002505	2396578..2395256	-	1323	VC2242	tRNA(Ile)-lysidine synthetase	CBSS-281309.1.peg.50	RNA processing and mod	RNA Metal	2395256	2396578	ref000001
2255	VCN16961	VCN16961.2216	NC_002505	2397677..2396718	-	960	VC2244	Acetyl-coenzyme A carboxyl transferase alpha	Na+ translocating decarboxylases and	Sodium Ion-Coupled Ener	Respiration	2396718	2397677	ref000001
2256	VCN16961	VCN16961.4345	NC_002505	2401211..2397732	-	3480	VC2245	DNA polymerase III alpha subunit (EC 2.7.7.7)	DNA-replication	DNA replication	DNA Metal	2397732	2401211	ref000001
2258	VCN16961	VCN16961.2219	NC_002505	2403034..2401895	-	1140	VC2247	Lipid-A-disaccharide synthase (EC 2.4.1.182)	KDO2-Lipid A biosynthesis	Gram-Negative cell wall c	Cell Wall a	2401895	2403034	ref000001
2259	VCN16961	VCN16961.2220	NC_002505	2403983..2403195	-	789	VC2248	Acyl-[acyl-carrier-protein]--UDP-N-acetylglucos	KDO2-Lipid A biosynthesis	Gram-Negative cell wall c	Cell Wall a	2403195	2403983	ref000001
2260	VCN16961	VCN16961.2221	NC_002505	2404446..2403985	-	462	VC2249	(3R)-hydroxymyristoyl-[acyl carrier protein] deh	Fatty Acid Biosynthesis FASII	Fatty acids	Fatty Acids	2403985	2404446	ref000001
2262	VCN16961	VCN16961.4254	NC_002505	2406087..2405587	-	501	VC2251	Outer membrane chaperone Skp (OmpH) preci	Major Outer Membrane Proteins	Gram-Negative cell wall c	Cell Wall a	2405587	2406087	ref000001
2263	VCN16961	VCN16961.2224	NC_002505	2408522..2406111	-	2412	VC2252	Outer membrane protein assembly factor YaeT	Lipopolysaccharide assembly	Gram-Negative cell wall c	Cell Wall a	2406111	2408522	ref000001
2272	VCN16961	VCN16961.2233	NC_002505	2416460..2417302	+	843	VC2261	Methionine aminopeptidase (EC 3.4.11.18)	CBSS-312309.3.peg.1965	Protein biosynthesis	Protein Me	2416460	2417302	ref000001
2273	VCN16961	VCN16961.4236	NC_002505	2417407..2420037	+	2631	VC2262	[Protein-PII] uridylyltransferase (EC 2.7.7.59)	CBSS-312309.3.peg.1965	Nitrogen Metabolism - no	Nitrogen M	2417407	2420037	ref000001
2281	VCN16961	VCN16961.2242	NC_002505	2425316..2424663	-	654	VC2270	Riboflavin synthase alpha chain (EC 2.5.1.9)	Riboflavin, FMN and FAD metabolism	Riboflavin, FMN, FAD	Cofactors,	2424663	2425316	ref000001
2282	VCN16961	VCN16961.2243	NC_002505	2426424..2425321	-	1104	VC2271	Diaminohydroxyphosphoribosylaminopyrimidin	Riboflavin, FMN and FAD metabolism	Riboflavin, FMN, FAD	Cofactors,	2425321	2426424	ref000001
2283	VCN16961	VCN16961.4058	NC_002505	2426899..2426450	-	450	VC2272	Ribonucleotide reductase transcriptional regula	CBSS-412883.3.peg.2513	Nucleosides and Nucleoti	Nucleoside	2426450	2426899	ref000001
2284	VCN16961	VCN16961.2245	NC_002505	2428252..2426999	-	1254	VC2273	Gamma-glutamyl phosphate reductase (EC 1.2	CBSS-412883.3.peg.2513	Proline and 4-hydroxyprol	Amino Acid	2426999	2428252	ref000001
2286	VCN16961	VCN16961.2247	NC_002505	2429904..2429515	-	390	VC2275	Transcriptional regulator Crl				2429515	2429904	ref000001
2289	VCN16961	VCN16961.2250	NC_002505	2433176..2431884	-	1293	VC2278	Xanthine/uracil/thiamine/ascorbate permease f	CBSS-266117.6.peg.2476	Nucleosides and Nucleoti	Nucleoside	2431884	2433176	ref000001
2292	VCN16961	VCN16961.2253	NC_002505	2436201..2437106	+	906	VC2281	Ribosomal protein S6 modification protein	Ribosome biogenesis bacterial	Protein biosynthesis	Protein Me	2436201	2437106	ref000001
2293	VCN16961	VCN16961.4314	NC_002505	2437093..2438154	+	1062	VC2282	Predicted deacylase				2437093	2438154	ref000001
2296	VCN16961	VCN16961.2257	NC_002505	2441252..2439735	-	1518	VC2285	GGDEF family protein				2439735	2441252	ref000001
2297	VCN16961	VCN16961.2258	NC_002505	2442086..2441316	-	771	VC2286	Methyl-accepting chemotaxis protein				2441316	2442086	ref000001

2298	VCN16961	VCN16961.2259	NC_002505	2443414..2442332	-	1083	VC2287	DNA polymerase IV (EC 2.7.7.7)	DNA repair, bacterial	DNA repair	DNA Metal	2442332	2443414	ref000001	
2300	VCN16961	VCN16961.4091	NC_002505	2444777..2443773	-	1005	VC2289	Thiamin biosynthesis lipoprotein ApbE	Iron-sulfur cluster assembly	Electron donating reactior	Respiratior	2443773	2444777	ref000001	
2301	VCN16961	VCN16961.2262	NC_002505	2446149..2444923	-	1227	VC2290	Na(+)-translocating NADH-quinone reductase s	Na(+)-translocating NADH-quinone ox	Electron donating reactior	Respiratior	2444923	2446149	ref000001	
2302	VCN16961	VCN16961.2263	NC_002505	2446779..2446183	-	597	VC2291	Na(+)-translocating NADH-quinone reductase s	Na(+)-translocating NADH-quinone ox	Electron donating reactior	Respiratior	2446183	2446779	ref000001	
2303	VCN16961	VCN16961.2264	NC_002505	2447419..2446787	-	633	VC2292	Na(+)-translocating NADH-quinone reductase s	Na(+)-translocating NADH-quinone ox	Electron donating reactior	Respiratior	2446787	2447419	ref000001	
2305	VCN16961	VCN16961.4093	NC_002505	2449426..2448179	-	1248	VC2294	Na(+)-translocating NADH-quinone reductase s	Na(+)-translocating NADH-quinone ox	Electron donating reactior	Respiratior	2448179	2449426	ref000001	
2306	VCN16961	VCN16961.3925	NC_002505	2450772..2449432	-	1341	VC2295	Na(+)-translocating NADH-quinone reductase s	Na(+)-translocating NADH-quinone ox	Electron donating reactior	Respiratior	2449432	2450772	ref000001	
2307	VCN16961	VCN16961.2268	NC_002505	2451577..2451257	-	321	VC2296	Cell division protein BolA	Glutaredoxins	Cell cycle in Prokaryota	Cell Divisic	2451257	2451577	ref000001	
2308	VCN16961	VCN16961.4196	NC_002505	2451742..2452872	+	1131	VC2297	Ribosomal RNA small subunit methyltransferas	rRNA methylation in clusters			2451742	2452872	ref000001	
2309	VCN16961	VCN16961.4192	NC_002505	2452914..2453489	+	576	VC2298	Putative lipoprotein				2452914	2453489	ref000001	
2310	VCN16961	VCN16961.4027	NC_002505	2453482..2454030	+	549	VC2299	Peptidyl-prolyl cis-trans isomerase ppiA precur	Peptidyl-prolyl cis-trans isomerase	Protein folding	Protein Me	2453482	2454030	ref000001	
2311	VCN16961	VCN16961.2272	NC_002505	2454099..2455487	+	1389	VC2300	AmpG protein	ZZ gjo need homes			2454099	2455487	ref000001	
2316	VCN16961	VCN16961.4327	NC_002505	2457836..2458636	+	801	VC2305	Outer membrane protein OmpK	Major Outer Membrane Proteins			2457836	2458636	ref000001	
2318	VCN16961	VCN16961.2279	NC_002505	2458775..2459665	+	891	VC2307	2-dehydropantoate 2-reductase (EC 1.1.1.169)	Coenzyme A Biosynthesis	Coenzyme A	Cofactors,	2458775	2459665	ref000001	
2319	VCN16961	VCN16961.2280	NC_002505	2459650..2460267	+	618	VC2308	4-methyl-5(B-hydroxyethyl)-thiazol monophosphate	biosynthesis enzyme			2459650	2460267	ref000001	
2320	VCN16961	VCN16961.4063	NC_002505	2460254..2461465	+	1212	VC2309	Cysteine desulfurase (EC 2.8.1.7)	Alanine biosynthesis	Fe-S clusters	Cofactors,	2460254	2461465	ref000001	
2321	VCN16961	VCN16961.2282	NC_002505	2461969..2461535	-	435	VC2310	Sulfur acceptor protein SufE for iron-sulfur clus	COG2363	Fe-S clusters	Cofactors,	2461535	2461969	ref000001	
2322	VCN16961	VCN16961.4046	NC_002505	2462789..2461974	-	816	VC2311	Molybdopterin biosynthesis MoeB protein				2461974	2462789	ref000001	
2323	VCN16961	VCN16961.2284	NC_002505	2463993..2462887	-	1107	VC2312	Membrane-bound lytic murein transglycosylase A	precursor (EC 3.2.1.-)			2462887	2463993	ref000001	
2327	VCN16961	VCN16961.4406	NC_002505	2464737..2466074	+	1338	VC2316	N-acetylglutamate synthase (EC 2.3.1.1)	Arginine Biosynthesis	Arginine; urea cycle, poly	Amino Acic	2464737	2466074	ref000001	
2330	VCN16961	VCN16961.2291	NC_002505	2468636..2466516	-	2121	VC2319	Exodeoxyribonuclease V alpha chain (EC 3.1.1	DNA-replication	DNA replication	DNA Metal	2466516	2468636	ref000001	
2331	VCN16961	VCN16961.2292	NC_002505	2472259..2468633	-	3627	VC2320	Exodeoxyribonuclease V beta chain (EC 3.1.11	DNA-replication	DNA replication	DNA Metal	2468633	2472259	ref000001	
2333	VCN16961	VCN16961.2294	NC_002505	2475970..2472524	-	3447	VC2322	Exodeoxyribonuclease V gamma chain (EC 3.1	DNA-replication	DNA replication	DNA Metal	2472524	2475970	ref000001	
2335	VCN16961	VCN16961.2296	NC_002505	2477288..2478202	+	915	VC2324	Transcriptional regulator, LysR family				2477288	2478202	ref000001	
2340	VCN16961	VCN16961.2301	NC_002505	2479033..2480064	+	1032	VC2329	2,3,4,5-tetrahydropyridine-2,6-dicarboxylate N-	Lysine Biosynthesis DAP Pathway	Lysine, threonine, methio	Amino Acic	2479033	2480064	ref000001	
2341	VCN16961	VCN16961.4283	NC_002505	2481330..2480146	-	1185	VC2330	NnrS protein involved in response to NO	Oxidative stress	Nitrogen Metabolism - no	Nitrogen M	2480146	2481330	ref000001	
2343	VCN16961	VCN16961.2304	NC_002505	2482584..2481493	-	1092	VC2332	Ribosomal-protein-S18p-alanine acetyltransfer	Ribosome biogenesis bacterial	Protein biosynthesis	Protein Me	2481493	2482584	ref000001	
2344	VCN16961	VCN16961.2305	NC_002505	2482789..2484240	+	1452	VC2333	Ribosomal protein S6 modification enzyme				2482789	2484240	ref000001	
2345	VCN16961	VCN16961.2306	NC_002505	2484430..2485413	+	984	VC2334	CmaX protein				2484430	2485413	ref000001	
2347	VCN16961	VCN16961.2308	NC_002505	2486325..2485981	-	345	VC2336	tRNA-binding protein YgjH	tRNA aminoacylase paralogs			2485981	2486325	ref000001	
2348	VCN16961	VCN16961.2309	NC_002505	2486484..2487491	+	1008	VC2337	Galactose operon repressor, GalR-LacI family	Lactose and Galactose Uptake and U	Di- and oligosaccharides	Carbohydr	2486484	2487491	ref000001	
2351	VCN16961	VCN16961.2310	NC_002505	2490959..2492101	+	1143	VC2339	Chromate transport protein ChrA				2490959	2492101	ref000001	
2352	VCN16961	VCN16961.2311	NC_002505	2492237..2493391	+	1155	VC2340	Response regulator containing a CheY-like receiver domain and an HD-GYP domain				2492237	2493391	ref000001	
2353	VCN16961	VCN16961.4365	NC_002505	2493597..2495282	+	1686	VC2341	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	CBSS-83332.1.peg.3803	Biotin	Cofactors,	2493597	2495282	ref000001	
2361	VCN16961	VCN16961.4373	NC_002505	2506983..2505637	-	1347	VC2349	Thymidine phosphorylase (EC 2.4.2.4)	pyrimidine conversions v2	Pyrimidines	Nucleoside	2505637	2506983	ref000001	
2362	VCN16961	VCN16961.2321	NC_002505	2507850..2507071	-	780	VC2350	Deoxyribose-phosphate aldolase (EC 4.1.2.4)	Deoxyribose and Deoxynucleoside Ca	Monosaccharides	Carbohydr	2507071	2507850	ref000001	
2364	VCN16961	VCN16961.2323	NC_002505	2509708..2508452	-	1257	VC2352	Nucleoside permease NupC	Deoxyribose and Deoxynucleoside Ca	Monosaccharides	Carbohydr	2508452	2509708	ref000001	
2371	VCN16961	VCN16961.2330	NC_002505	2515565..2514885	-	681	VC2359	Uracil-DNA glycosylase (EC 3.2.2.-)	DNA Repair Base Excision	DNA repair	DNA Metal	2514885	2515565	ref000001	
2372	VCN16961	VCN16961.2331	NC_002505	2516794..2515934	-	861	VC2360	Endonuclease IV (EC 3.1.21.2)	DNA repair, bacterial	DNA repair	DNA Metal	2515934	2516794	ref000001	
2374	VCN16961	VCN16961.2333	NC_002505	2518877..2517597	-	1281	VC2362	Threonine synthase (EC 4.2.3.1)	Threonine and Homoserine Biosynthe	Lysine, threonine, methio	Amino Acic	2517597	2518877	ref000001	
2378	VCN16961	VCN16961.2337	NC_002505	2523825..2523337	-	489	VC2366	Ribonuclease E inhibitor RraA	RNA processing and degradation, bac	RNA processing and mod	RNA Metal	2523337	2523825	ref000001	
2380	VCN16961	VCN16961.2339	NC_002505	2524550..2525266	+	717	VC2368	Aerobic respiration control protein arcA	GJO regulatory system scratch	Regulation and Cell signa	Regulation	2524550	2525266	ref000001	
2381	VCN16961	VCN16961.2340	NC_002505	2527682..2525325	-	2358	VC2369	Aerobic respiration control sensor protein arcB	GJO regulatory system scratch	Regulation and Cell signa	Regulation	2525325	2527682	ref000001	
2382	VCN16961	VCN16961.2341	NC_002505	2529528..2527789	-	1740	VC2370	Sensory box/GGDEF family protein				2527789	2529528	ref000001	
2385	VCN16961	VCN16961.4068	NC_002505	2531113..2535657	+	4545	VC2373	Glutamate synthase [NADPH] large chain (EC	Ammonia assimilation	Nitrogen Metabolism - no	Nitrogen M	2531113	2535657	ref000001	
2386	VCN16961	VCN16961.2345	NC_002505	2535658..2537127	+	1470	VC2374	Glutamate synthase [NADPH] small chain (EC	Ammonia assimilation	Nitrogen Metabolism - no	Nitrogen M	2535658	2537127	ref000001	
2388	VCN16961	VCN16961.2347	NC_002505	2537655..2542118	+	4464	VC2376	Glutamate synthase [NADPH] large chain (EC	Iron-sulfur experimental	Nitrogen Metabolism - no	Nitrogen M	2537655	2542118	ref000001	
2389	VCN16961	VCN16961.4042	NC_002505	2542137..2543549	+	1413	VC2377	Glutamate synthase [NADPH] small chain (EC	Iron-sulfur experimental	Nitrogen Metabolism - no	Nitrogen M	2542137	2543549	ref000001	
2391	VCN16961	VCN16961.2350	NC_002505	2544258..2544953	+	696	VC2379	5'-methylthioadenosine nucleosidase (EC 3.2.2	Methionine Biosynthesis	Arginine; urea cycle, poly	Amino Acic	2544258	2544953	ref000001	
2392	VCN16961	VCN16961.2351	NC_002505	2544966..2545919	+	954	VC2380	Adenosylcobinamide-phosphate synthase	Coenzyme B12 biosynthesis	Tetrapyrroles	Cofactors,	2544966	2545919	ref000001	
2393	VCN16961	VCN16961.2352	NC_002505	2545920..2546750	+	831	VC2381	Vitamin B12 ABC transporter, B12-binding com	Coenzyme B12 biosynthesis	Tetrapyrroles	Cofactors,	2545920	2546750	ref000001	
2394	VCN16961	VCN16961.4397	NC_002505	2546833..2547453	+	621	VC2382	membrane protein				2546833	2547453	ref000001	
2395	VCN16961	VCN16961.2354	NC_002505	2547605..2548465	+	861	VC2383	Transcriptional regulator, LysR family				2547605	2548465	ref000001	
2401	VCN16961	VCN16961.2360	NC_002505	2557279..2554049	-	3231	VC2389	Carbamoyl-phosphate synthase large chain (E	CBSS-243277.1.peg.511	Nucleosides and Nucleoti	Nucleoside	2554049	2557279	ref000001	
2403	VCN16961	VCN16961.2362	NC_002505	2559727..2558918	-	810	VC2391	Dihydrodipicolinate reductase (EC 1.3.1.26)	Lysine Biosynthesis DAP Pathway	Lysine, threonine, methio	Amino Acic	2558918	2559727	ref000001	
2406	VCN16961	VCN16961.2365	NC_002505	2563101..2560390	-	2712	VC2394	Protein export cytoplasm protein SecA ATPase	CBSS-393121.3.peg.2760	Secretion	Protein Me	2560390	2563101	ref000001	
2408	VCN16961	VCN16961.2367	NC_002505	2564949..2564032	-	918	VC2396	UDP-3-O-[3-hydroxymyristoyl] N-acetylglucosa	CBSS-251221.1.peg.1863	Gram-Negative cell wall c	Cell Wall a	2564032	2564949	ref000001	
2410	VCN16961	VCN16961.2369	NC_002505	2567536..2566274	-	1263	VC2398	Cell division protein ftsA	Bacterial Cytoskeleton	Cell cycle in Prokaryota	Cell Divisic	2566274	2567536	ref000001	
2411	VCN16961	VCN16961.2370	NC_002505	2568311..2567529	-	783	VC2399	Cell division protein ftsQ	Bacterial Cytoskeleton	Cell cycle in Prokaryota	Cell Divisic	2567529	2568311	ref000001	
2412	VCN16961	VCN16961.3927	NC_002505	2569953..2568493	-	1461	VC2400	UDP-N-acetylmuramate--alanine ligase (EC 6.3	Peptidoglycan Biosynthesis			2568493	2569953	ref000001	
2413	VCN16961	VCN16961.2372	NC_002505	2571031..2569967	-	1065	VC2401	UDP-N-acetylglucosamine--N-acetylmuramyl-(p	Peptidoglycan Biosynthesis			2569967	2571031	ref000001	
2415	VCN16961	VCN16961.4379	NC_002505	2573550..2572228	-	1323	VC2403	UDP-N-acetylmuramoylalanine--D-glutamate li	Peptidoglycan Biosynthesis			2572228	2573550	ref000001	
2416	VCN16961	VCN16961.2375	NC_002505	2574656..2573574	-	1083	VC2404	Phospho-N-acetylmuramoyl-pentapeptide-trans	Peptidoglycan Biosynthesis			2573574	2574656	ref000001	
2417	VCN16961	VCN16961.2376	NC_002505	2576014..2574653	-	1362	VC2405	UDP-N-acetylmuramoylalanyl-D-glutamyl-2,6-d	Peptidoglycan Biosynthesis			2574653	2576014	ref000001	
2418	VCN16961	VCN16961.2377	NC_002505	2577549..2576011	-	1539	VC2406	UDP-N-acetylmuramoylalanyl-D-glutamate--2,6	Peptidoglycan Biosynthesis			2576011	2577549	ref000001	
2419	VCN16961	VCN16961.2378	NC_002505	2579257..2577515	-	1743	VC2407	Cell division protein ftsI [Peptidoglycan synthet	Bacterial Cytoskeleton	Cell cycle in Prokaryota	Cell Divisic	2577515	2579257	ref000001	
2420	VCN16961	VCN16961.2379	NC_002505	2579574..2579254	-	321	VC2408	Cell division protein ftsL	Bacterial Cytoskeleton	Cell cycle in Prokaryota	Cell Divisic	2579254	2579574	ref000001	
2421	VCN16961	VCN16961.2380	NC_002505	2580534..2579584	-	951	VC2409	S-adenosyl-methyltransferase mraW (EC 2.1.1	Bacterial Cell Division	Cell cycle in Prokaryota	Cell Divisic	2579584	2580534	ref000001	
2424	VCN16961	VCN16961.2383	NC_002505	2582719..2581292	-	1428	VC2412	Dihydrolipoamide dehydrogenase of pyruvate c	TCA Cycle	Central carbohydrate met	Carbohydr	2581292	2582719	ref000001	
2425	VCN16961	VCN16961.4264	NC_002505	2584876..2582987	-	1890	VC2413	Dihydrolipoamide acetyltransferase component	Pyruvate metabolism II: acetyl-CoA, a	Lipoic acid	Cofactors,	2582987	2584876	ref000001	
2426	VCN16961	VCN16961.2385	NC_002505	2587555..2584895	-	2661	VC2414	Pyruvate dehydrogenase E1 component (EC 1	Pyruvate metabolism II: acetyl-CoA, a	Central carbohydrate met	Carbohydr	2584895	2587555	ref000001	
2427	VCN16961	VCN16961.2386	NC_002505	2588375..2587605	-	771	VC2415	Transcriptional repressor for pyruvate dehydro	Dehydrogenase complexes	Central carbohydrate met	Carbohydr	2587605	2588375	ref000001	
2429	VCN16961	VCN16961.3949	NC_002505	2592547..2590808	-	1740	VC2417	Single-stranded-DNA-specific exonuclease rec	DNA Repair Base Excision	DNA repair	DNA Metal	2590808	2592547	ref000001	
2430	VCN16961	VCN16961.2389	NC_002505	2593358..2592606	-	753	VC2418	Thiol:disulfide interchange protein DsbC	Periplasmic disulfide interchange	Protein folding	Protein Me	2592606	2593358	ref000001	
2431	VCN16961	VCN16961.2390	NC_002505	2594283..2593375	-	909	VC2419	Site-specific recombinase XerD				2593375	2594283	ref000001	

2434	VCN16961	VCN16961.2393	NC_002505	2596058..2596948	+	891	VC2422	Quinolinate phosphoribosyltransferase [decarb	NAD and NADP cofactor biosynthesis	NAD and NADP	Cofactors,	2596058	2596948	ref000001	
2435	VCN16961	VCN16961.2394	NC_002505	2597151..2597654	+	504	VC2423	Type IV pilin PilA	Type IV pilus			2597151	2597654	ref000001	
2436	VCN16961	VCN16961.2395	NC_002505	2597654..2599342	+	1689	VC2424	Type 4 fimbrial assembly, ATPase PilB	Bacterial motility:Gliding			2597654	2599342	ref000001	
2437	VCN16961	VCN16961.2396	NC_002505	2599385..2600611	+	1227	VC2425	Type 4 fimbrial assembly protein pilC	Bacterial motility:Gliding			2599385	2600611	ref000001	
2438	VCN16961	VCN16961.2397	NC_002505	2600669..2601544	+	876	VC2426	Leader peptidase (Prepilin peptidase) (EC 3.4.:	Type IV pilus			2600669	2601544	ref000001	
2439	VCN16961	VCN16961.4249	NC_002505	2601541..2602149	+	609	VC2427	Dephospho-CoA kinase (EC 2.7.1.24)	Coenzyme A Biosynthesis	Coenzyme A	Cofactors,	2601541	2602149	ref000001	
2448	VCN16961	VCN16961.2407	NC_002505	2610550..2611866	+	1317	VC2436	Type I secretion outer membrane protein, TolC	Ton and Tol transport systems	Resistance to antibiotics a	Virulence	2610550	2611866	ref000001	
2449	VCN16961	VCN16961.3916	NC_002505	2612817..2611972	-	846	VC2437a	ADP-heptose synthase (EC 2.7.-.-) / D-glycero-	LOS core oligosaccharide biosynthesi	Gram-Negative cell wall c	Cell Wall a	2611972	2612817	ref000001	
2451	VCN16961	VCN16961.2408	NC_002505	2616311..2613465	-	2847	VC2438	Glutamate-ammonia-ligase adenylyltransferase	CBSS-316057.3.peg.3521	Nitrogen Metabolism - no	Nitrogen M	2613465	2616311	ref000001	
2453	VCN16961	VCN16961.2410	NC_002505	2619693..2618176	-	1518	VC2440	Adenylate cyclase (EC 4.6.1.1)	cAMP signaling in bacteria	Regulation and Cell signa	Regulation	2618176	2619693	ref000001	
2465	VCN16961	VCN16961.2422	NC_002505	2634425..2633103	-	1323	VC2452	23S rRNA (Uracil-5-) -methyltransferase rumA	Iron-sulfur experimental			2633103	2634425	ref000001	
2471	VCN16961	VCN16961.2428	NC_002505	2641728..2640997	-	732	VC2458	Pyridoxal phosphate biosynthetic protein pdxJ	Pyridoxin (Vitamin B6) Biosynthesis	Pyridoxine	Cofactors,	2640997	2641728	ref000001	
2472	VCN16961	VCN16961.2429	NC_002505	2642450..2641725	-	726	VC2459	DNA recombination and repair protein RecO	CBSS-176299.4.peg.1292	DNA repair	DNA Metal	2641725	2642450	ref000001	
2473	VCN16961	VCN16961.2430	NC_002505	2643497..2642520	-	978	VC2460	GTP-binding protein Era	CBSS-176299.4.peg.1292	RNA processing and mod	RNA Metal	2642520	2643497	ref000001	
2474	VCN16961	VCN16961.2431	NC_002505	2644167..2643490	-	678	VC2461	Ribonuclease III (EC 3.1.26.3)	CBSS-176299.4.peg.1292	RNA processing and mod	RNA Metal	2643490	2644167	ref000001	
2475	VCN16961	VCN16961.2432	NC_002505	2645095..2644199	-	897	VC2462	Signal peptidase I (EC 3.4.21.89)	CBSS-176299.4.peg.1292	Protein processing and m	Protein Me	2644199	2645095	ref000001	
2476	VCN16961	VCN16961.2433	NC_002505	2646980..2645187	-	1794	VC2463	Translation elongation factor LepA	Universal GTPases	Tetrapyrroles	Cofactors,	2645187	2646980	ref000001	
2477	VCN16961	VCN16961.2434	NC_002505	2647563..2647093	-	471	VC2464	Sigma factor RpoE regulatory protein RseC	YgfZ-Fe-S clustering	Transcription	RNA Metal	2647093	2647563	ref000001	
2479	VCN16961	VCN16961.4229	NC_002505	2649142..2648522	-	621	VC2466	Sigma factor RpoE negative regulatory protein	Periplasmic Stress Response	Transcription	RNA Metal	2648522	2649142	ref000001	
2492	VCN16961	VCN16961.2449	NC_002505	2658396..2658980	+	585	VC2479	5-formyltetrahydrofolate cyclo-ligase (EC 6.3.3.5	5-FCL-like protein Experimental	Folate and pterines	Cofactors,	2658396	2658980	ref000001	
2493	VCN16961	VCN16961.2450	NC_002505	2659090..2659746	+	657	VC2480	Ribose 5-phosphate isomerase A (EC 5.3.1.6)	Pentose phosphate pathway	Central carbohydrate met	Carbohydr	2659090	2659746	ref000001	
2495	VCN16961	VCN16961.2452	NC_002505	2661955..2661461	-	495	VC2482	Acetolactate synthase small subunit (EC 2.2.1.	Branched-Chain Amino Acid Biosynth	Branched-chain amino ac	Amino Acid	2661461	2661955	ref000001	
2496	VCN16961	VCN16961.2453	NC_002505	2663678..2661957	-	1722	VC2483	Acetolactate synthase large subunit (EC 2.2.1.6	Branched-Chain Amino Acid Biosynth	Branched-chain amino ac	Amino Acid	2661957	2663678	ref000001	
2497	VCN16961	VCN16961.2454	NC_002505	2665968..2664163	-	1806	VC2484	Long-chain-fatty-acid--CoA ligase (EC 6.2.1.3)	CBSS-83332.1.peg.3803	Biotin	Cofactors,	2664163	2665968	ref000001	
2498	VCN16961	VCN16961.2455	NC_002505	2667110..2666145	-	966	VC2485	Transcriptional regulator, LysR family				2666145	2667110	ref000001	
2500	VCN16961	VCN16961.2457	NC_002505	2668498..2667410	-	1089	VC2487	Glycosyltransferase (EC 2.4.1.-)				2667410	2668498	ref000001	
2503	VCN16961	VCN16961.2460	NC_002505	2670176..2671726	+	1551	VC2490	2-isopropylmalate synthase (EC 2.3.3.13)	Branched-Chain Amino Acid Biosynth	Branched-chain amino ac	Amino Acid	2670176	2671726	ref000001	
2504	VCN16961	VCN16961.2461	NC_002505	2671838..2672929	+	1092	VC2491	3-isopropylmalate dehydrogenase (EC 1.1.1.85	Branched-Chain Amino Acid Biosynth	Branched-chain amino ac	Amino Acid	2671838	2672929	ref000001	
2505	VCN16961	VCN16961.2462	NC_002505	2672987..2674390	+	1404	VC2492	3-isopropylmalate dehydratase large subunit (E	Branched-Chain Amino Acid Biosynth	Branched-chain amino ac	Amino Acid	2672987	2674390	ref000001	
2506	VCN16961	VCN16961.2463	NC_002505	2674406..2675008	+	603	VC2493	3-isopropylmalate dehydratase small subunit (E	Branched-Chain Amino Acid Biosynth	Branched-chain amino ac	Amino Acid	2674406	2675008	ref000001	
2519	VCN16961	VCN16961.2476	NC_002505	2696397..2693488	-	2910	VC2506	RNA polymerase associated protein rapA (EC :	CBSS-326442.4.peg.1852			2693488	2696397	ref000001	
2521	VCN16961	VCN16961.2478	NC_002505	2698345..2699349	+	1005	VC2508	Ornithine carbamoyltransferase (EC 2.1.3.3)	CBSS-320372.3.peg.6046	Arginine; urea cycle, poly	Amino Acid	2698345	2699349	ref000001	
2523	VCN16961	VCN16961.3953	NC_002505	2699599..2700528	+	930	VC2510	Aspartate carbamoyltransferase (EC 2.1.3.2)	CBSS-320372.3.peg.6046	Nucleosides and Nucleoti	Nucleoside	2699599	2700528	ref000001	
2524	VCN16961	VCN16961.2481	NC_002505	2700540..2701007	+	468	VC2511	Aspartate carbamoyltransferase regulatory cha	De Novo Pyrimidine Synthesis	Nucleosides and Nucleoti	Nucleoside	2700540	2701007	ref000001	
2525	VCN16961	VCN16961.2482	NC_002505	2701112..2701501	+	390	VC2512	Endoribonuclease L-PSP	CBSS-176299.4.peg.1996			2701112	2701501	ref000001	
2526	VCN16961	VCN16961.4054	NC_002505	2702310..2701582	-	729	VC2513	1-acyl-sn-glycerol-3-phosphate acyltransferase	Phosphate metabolism	Phospholipids	Fatty Acids	2701582	2702310	ref000001	
2527	VCN16961	VCN16961.2484	NC_002505	2703648..2702389	-	1260	VC2514	UDP-N-acetylglucosamine 1-carboxyvinyltrans	Peptidoglycan Biosynthesis	Cell Wall and Capsule - n	Cell Wall a	2702389	2703648	ref000001	
2528	VCN16961	VCN16961.2485	NC_002505	2703910..2703656	-	255	VC2515	BolA/YrbA family protein				2703656	2703910	ref000001	
2530	VCN16961	VCN16961.2487	NC_002505	2704870..2704229	-	642	VC2517	Uncharacterized ABC transporter, auxiliary con	Lipopolysaccharide assembly	Gram-Negative cell wall c	Cell Wall a	2704229	2704870	ref000001	
2531	VCN16961	VCN16961.2488	NC_002505	2705362..2704871	-	492	VC2518	Uncharacterized ABC transporter, periplasmic	Lipopolysaccharide assembly	Gram-Negative cell wall c	Cell Wall a	2704871	2705362	ref000001	
2532	VCN16961	VCN16961.2489	NC_002505	2706141..2705365	-	777	VC2519	Uncharacterized ABC transporter, permease c	Lipopolysaccharide assembly	Gram-Negative cell wall c	Cell Wall a	2705365	2706141	ref000001	
2533	VCN16961	VCN16961.2490	NC_002505	2706949..2706146	-	804	VC2520	Uncharacterized ABC transporter, ATP-binding	Lipopolysaccharide assembly	Gram-Negative cell wall c	Cell Wall a	2706146	2706949	ref000001	
2535	VCN16961	VCN16961.4241	NC_002505	2707542..2708504	+	963	VC2522	Inner membrane protein YrbG, predicted calciu	Lipopolysaccharide assembly	Gram-Negative cell wall c	Cell Wall a	2707542	2708504	ref000001	
2536	VCN16961	VCN16961.2493	NC_002505	2708554..2709534	+	981	VC2523	Arabinose 5-phosphate isomerase (EC 5.3.1.13	KDO2-Lipid A biosynthesis	Gram-Negative cell wall c	Cell Wall a	2708554	2709534	ref000001	
2537	VCN16961	VCN16961.2494	NC_002505	2709534..2710091	+	558	VC2524	3-deoxy-D-manno-octulosonate 8-phosphate p	KDO2-Lipid A biosynthesis	Gram-Negative cell wall c	Cell Wall a	2709534	2710091	ref000001	
2539	VCN16961	VCN16961.4109	NC_002505	2710632..2711126	+	495	VC2526	LptA, protein essential for LPS transport across	Lipopolysaccharide assembly	Gram-Negative cell wall c	Cell Wall a	2710632	2711126	ref000001	
2540	VCN16961	VCN16961.2497	NC_002505	2711129..2711854	+	726	VC2528	Lipopolysaccharide ABC transporter, ATP-bind	Lipopolysaccharide assembly	Gram-Negative cell wall c	Cell Wall a	2711129	2711854	ref000001	
2541	VCN16961	VCN16961.2498	NC_002505	2711910..2713373	+	1464	VC2529	RNA polymerase sigma-54 factor rpoN	CBSS-316057.3.peg.1308	Transcription	RNA Metal	2711910	2713373	ref000001	
2543	VCN16961	VCN16961.2500	NC_002505	2713688..2714134	+	447	VC2531	PTS system nitrogen-specific IIA component, PtsN				2713688	2714134	ref000001	
2546	VCN16961	VCN16961.2503	NC_002505	2715455..2716816	+	1362	VC2534	Magnesium transporter				2715455	2716816	ref000001	
2547	VCN16961	VCN16961.2504	NC_002505	2718231..2716888	-	1344	VC2535	PmbA protein	PmbA and a Hypothetical Protein			2716888	2718231	ref000001	
2548	VCN16961	VCN16961.3969	NC_002505	2718342..2718911	+	570	VC2536	FIG001081: Putative alpha helix protein	PmbA and a Hypothetical Protein			2718342	2718911	ref000001	
2549	VCN16961	VCN16961.3933	NC_002505	2719730..2719014	-	717	VC2537	Thiamin ABC transporter, ATPase component	Thiamin biosynthesis	Thiamine and thiamine py	Cofactors,	2719014	2719730	ref000001	
2550	VCN16961	VCN16961.2507	NC_002505	2721334..2719742	-	1593	VC2538	Thiamin ABC transporter, transmembrane com	Thiamin biosynthesis	Thiamine and thiamine py	Cofactors,	2719742	2721334	ref000001	
2551	VCN16961	VCN16961.2508	NC_002505	2722336..2721344	-	993	VC2539	Thiamin ABC transporter, substrate-binding co	Thiamin biosynthesis	Thiamine and thiamine py	Cofactors,	2721344	2722336	ref000001	
2553	VCN16961	VCN16961.2510	NC_002505	2723233..2722598	-	636	VC2541	3-polyprenyl-4-hydroxybenzoate carboxy-lyase	Experimental-Ubiquinone Biosynthesis	Quinone cofactors	Cofactors,	2722598	2723233	ref000001	
2556	VCN16961	VCN16961.2513	NC_002505	2724901..2725911	+	1011	VC2544	Fructose-1,6-bisphosphatase, type I (EC 3.1.3.	Cluster Ytf and putative sugar transpo	Central carbohydrate met	Carbohydr	2724901	2725911	ref000001	
2557	VCN16961	VCN16961.2514	NC_002505	2726081..2726611	+	531	VC2545	Inorganic pyrophosphatase (EC 3.6.1.1)	Phosphate metabolism	Phosphorus Metabolism -	Phosphoru	2726081	2726611	ref000001	
2559	VCN16961	VCN16961.2516	NC_002505	2730793..2727029	-	3765	VC2547	Uncharacterized protein YtfN	Cluster Ytf and putative sugar transpo	Clustering-based subsyst	Carbohydr	2727029	2730793	ref000001	
2560	VCN16961	VCN16961.4237	NC_002505	2732505..2730790	-	1716	VC2548	Uncharacterized protein YtfM precursor	Cluster Ytf and putative sugar transpo	Clustering-based subsyst	Carbohydr	2730790	2732505	ref000001	
2561	VCN16961	VCN16961.2518	NC_002505	2732684..2733322	+	639	VC2549	Peptide methionine sulfoxide reductase msrA (	Cluster Ytf and putative sugar transpo	Clustering-based subsyst	Carbohydr	2732684	2733322	ref000001	
2562	VCN16961	VCN16961.2519	NC_002505	2733404..2733955	+	552	VC2550	Protein ytfJ precursor				2733404	2733955	ref000001	
2564	VCN16961	VCN16961.2521	NC_002505	2734527..2735255	+	729	VC2552	Predicted zinc-binding protein	Transport of Zinc			2734527	2735255	ref000001	
2565	VCN16961	VCN16961.2522	NC_002505	2735337..2736053	+	717	VC2553	ABC-type antimicrobial peptide transport system,	ATPase component			2735337	2736053	ref000001	
2566	VCN16961	VCN16961.4143	NC_002505	2736050..2737309	+	1260	VC2554	ABC-type antimicrobial peptide transport system,	permease component			2736050	2737309	ref000001	
2570	VCN16961	VCN16961.2527	NC_002505	2739812..2739165	-	648	VC2558	Adenylylsulfate kinase (EC 2.7.1.25)	Superpathway of cysteine biosynthesi	Capsular and extracellula	Cell Wall a	2739165	2739812	ref000001	
2571	VCN16961	VCN16961.2528	NC_002505	2741253..2739823	-	1431	VC2559	Sulfate adenylyltransferase subunit 1 (EC 2.7.7	Superpathway of cysteine biosynthesi	Inorganic sulfur assimilati	Sulfur Meta	2739823	2741253	ref000001	
2573	VCN16961	VCN16961.2530	NC_002505	2743181..2742282	-	900	VC2561	Uroporphyrinogen-III methyltransferase (EC 2.1	Experimental tye	Tetrapyrroles	Cofactors,	2742282	2743181	ref000001	
2574	VCN16961	VCN16961.2531	NC_002505	2743382..2745427	+	2046	VC2562	2',3'-cyclic-nucleotide 2'-phosphodiesterase (E	pyrimidine conversions v2	Potassium metabolism - r	Potassium	2743382	2745427	ref000001	
2575	VCN16961	VCN16961.2532	NC_002505	2745547..2746116	+	570	VC2563	cAMP-binding proteins - catabolite gene activa	CBSS-258594.1.peg.3339	Potassium metabolism - r	Potassium	2745547	2746116	ref000001	
2576	VCN16961	VCN16961.2533	NC_002505	2747501..2746119	-	1383	VC2564	ATP-dependent RNA helicase DbpA	ATP-dependent RNA helicases, bacte	RNA processing and mod	RNA Metal	2746119	2747501	ref000001	
2577	VCN16961	VCN16961.2534	NC_002505	2747727..2748176	+	450	VC2565	ElaA protein	cAMP signaling in bacteria	Potassium metabolism - r	Potassium	2747727	2748176	ref000001	
2610	VCN16961	VCN16961.2568	NC_002505	2768468..2766003	-	2466	VC2599	Ribonuclease R (EC 3.1.-.-)	RNA processing and degradation, bac	RNA processing and mod	RNA Metal	2766003	2768468	ref000001	
2615	VCN16961	VCN16961.2573	NC_002505	2774524..2773919	-	606	VC2604	FKBP-type peptidyl-prolyl cis-trans isomerase s	Peptidyl-prolyl cis-trans isomerase	Potassium metabolism - r	Potassium	2773919	2774524	ref000001	
2616	VCN16961	VCN16961.2574	NC_002505	2774816..2774616	-	201	VC2605	Putative cytoplasmic protein ,probably associat	Glutathione-regulated potassium-efflu	Potassium metabolism - r	Potassium	2774616	2774816	ref000001	

2619	VCN16961	VCN16961.3971	NC_002505	2777323..2779239	+	1917	VC2608	Glutathione-regulated potassium-efflux system	Glutathione-regulated potassium-efflu	Potassium metabolism - r	Potassium	2777323	2779239	ref000001		
2621	VCN16961	VCN16961.2579	NC_002505	2779722..2780711	+	990	VC2610	Hydrolase, alpha/beta fold family functionally c	cAMP signaling in bacteria	Potassium metabolism - r	Potassium	2779722	2780711	ref000001		
2624	VCN16961	VCN16961.2582	NC_002505	2781145..2782014	+	870	VC2613	Phosphoribulokinase (EC 2.7.1.19) homolog,	function unknown			2781145	2782014	ref000001		
2625	VCN16961	VCN16961.2583	NC_002505	2782257..2782889	+	633	VC2614	Cyclic AMP receptor protein	cAMP signaling in bacteria	Potassium metabolism - r	Potassium	2782257	2782889	ref000001		
2627	VCN16961	VCN16961.2585	NC_002505	2785359..2783902	-	1458	VC2616	Succinylglutamic semialdehyde dehydrogenas	Arginine and Ornithine Degradation	Arginine; urea cycle, poly	Amino Acid	2783902	2785359	ref000001		
2628	VCN16961	VCN16961.3995	NC_002505	2786388..2785369	-	1020	VC2617	Arginine N-succinyltransferase (EC 2.3.1.109)	Arginine and Ornithine Degradation	Arginine; urea cycle, poly	Amino Acid	2785369	2786388	ref000001		
2629	VCN16961	VCN16961.2587	NC_002505	2787739..2786528	-	1212	VC2618	Acetylornithine aminotransferase (EC 2.6.1.11)	Arginine and Ornithine Degradation	Arginine; urea cycle, poly	Amino Acid	2786528	2787739	ref000001		
2630	VCN16961	VCN16961.2588	NC_002505	2788718..2788137	-	582	VC2619	Para-aminobenzoate synthase, amidotransfera	Folate Biosynthesis	Folate and pterines	Cofactors,	2788137	2788718	ref000001		
2631	VCN16961	VCN16961.2589	NC_002505	2788972..2790384	+	1413	VC2620	MiaB-like tRNA modifying enzyme YliG, TIGR01125				2788972	2790384	ref000001		
2632	VCN16961	VCN16961.2590	NC_002505	2793067..2790458	-	2610	VC2621	Extracellular nuclease-related protein				2790458	2793067	ref000001		
2634	VCN16961	VCN16961.4183	NC_002505	2795283..2794267	-	1017	VC2623	Tryptophanyl-tRNA synthetase (EC 6.1.1.2)	tRNA aminoacylation	Protein biosynthesis	Protein Me	2794267	2795283	ref000001		
2635	VCN16961	VCN16961.2593	NC_002505	2796091..2795411	-	681	VC2624	Phosphoglycolate phosphatase (EC 3.1.3.18)	Glycolate, glyoxylate interconversions	DNA repair	DNA Metal	2795411	2796091	ref000001		
2636	VCN16961	VCN16961.4270	NC_002505	2796785..2796111	-	675	VC2625	Ribulose-phosphate 3-epimerase (EC 5.1.3.1)	Pentose phosphate pathway	DNA repair	DNA Metal	2796111	2796785	ref000001		
2637	VCN16961	VCN16961.2595	NC_002505	2797745..2796912	-	834	VC2626	Methyl-directed repair DNA adenine methylase	DNA repair, bacterial	DNA repair	DNA Metal	2796912	2797745	ref000001		
2638	VCN16961	VCN16961.2596	NC_002505	2799290..2797815	-	1476	VC2627	DamX-related protein				2797815	2799290	ref000001		
2639	VCN16961	VCN16961.3993	NC_002505	2800430..2799345	-	1086	VC2628	3-dehydroquinate synthase (EC 4.2.3.4)	Common Pathway For Synthesis of Ar	Aromatic amino acids and	Amino Acid	2799345	2800430	ref000001		
2640	VCN16961	VCN16961.2598	NC_002505	2800982..2800458	-	525	VC2629	Shikimate kinase (EC 2.7.1.71)	Common Pathway For Synthesis of Ar	Aromatic amino acids and	Amino Acid	2800458	2800982	ref000001		
2641	VCN16961	VCN16961.4055	NC_002505	2802884..2801169	-	1716	VC2630	Type IV pilus biogenesis protein PilQ	Type IV pilus			2801169	2802884	ref000001		
2643	VCN16961	VCN16961.4092	NC_002505	2804008..2803418	-	591	VC2632	Type IV pilus biogenesis protein PilO	Type IV pilus			2803418	2804008	ref000001		
2644	VCN16961	VCN16961.4380	NC_002505	2804585..2804001	-	585	VC2633	Type IV pilus biogenesis protein PilN	Type IV pilus			2804001	2804585	ref000001		
2648	VCN16961	VCN16961.2606	NC_002505	2809306..2810049	+	744	VC2637	Peroxiredoxin family protein/glutaredoxin				2809306	2810049	ref000001		
2649	VCN16961	VCN16961.2607	NC_002505	2810121..2811575	+	1455	VC2638	Dihydrolipoamide dehydrogenase (EC 1.8.1.4)	TCA Cycle	Alanine, serine, and glyci	Amino Acid	2810121	2811575	ref000001		
2652	VCN16961	VCN16961.2610	NC_002505	2813691..2812315	-	1377	VC2641	Argininosuccinate lyase (EC 4.3.2.1)	Arginine Biosynthesis	Arginine; urea cycle, poly	Amino Acid	2812315	2813691	ref000001		
2653	VCN16961	VCN16961.2611	NC_002505	2815138..2813924	-	1215	VC2642	Argininosuccinate synthase (EC 6.3.4.5)	Arginine Biosynthesis	Arginine; urea cycle, poly	Amino Acid	2813924	2815138	ref000001		
2654	VCN16961	VCN16961.2612	NC_002505	2816002..2815214	-	789	VC2643	Acetylglutamate kinase (EC 2.7.2.8)	Arginine Biosynthesis	Arginine; urea cycle, poly	Amino Acid	2815214	2816002	ref000001		
2655	VCN16961	VCN16961.3994	NC_002505	2817013..2816012	-	1002	VC2644	N-acetyl-gamma-glutamyl-phosphate reductas	Arginine Biosynthesis	Arginine; urea cycle, poly	Amino Acid	2816012	2817013	ref000001		
2656	VCN16961	VCN16961.2614	NC_002505	2817169..2818305	+	1137	VC2645	Acetylornithine deacetylase (EC 3.5.1.16)	Arginine Biosynthesis	Arginine; urea cycle, poly	Amino Acid	2817169	2818305	ref000001		
2657	VCN16961	VCN16961.2615	NC_002505	2818479..2821142	+	2664	VC2646	Phosphoenolpyruvate carboxylase (EC 4.1.1.3	Serine-glyoxylate cycle	Central carbohydrate met	Carbohydr	2818479	2821142	ref000001		
2658	VCN16961	VCN16961.2616	NC_002505	2821501..2822040	+	540	VC2647	Predicted transcriptional regulator				2821501	2822040	ref000001		
2664	VCN16961	VCN16961.2622	NC_002505	2824738..2824274	-	465	VC2653	Protein export cytoplasm chaperone protein (Sc	Glutaredoxins	Secretion	Protein Me	2824274	2824738	ref000001		
2666	VCN16961	VCN16961.4225	NC_002505	2826443..2825469	-	975	VC2655	Lysyl-tRNA synthetase-related protein				2825469	2826443	ref000001		
2667	VCN16961	VCN16961.2625	NC_002505	2826752..2828560	+	1809	VC2656	Succinate dehydrogenase flavoprotein subunit	TCA Cycle	Electron donating reactior	Respiratior	2826752	2828560	ref000001		
2668	VCN16961	VCN16961.2626	NC_002505	2828560..2829318	+	759	VC2657	Succinate dehydrogenase iron-sulfur protein (E	TCA Cycle	Electron donating reactior	Respiratior	2828560	2829318	ref000001		
2669	VCN16961	VCN16961.2627	NC_002505	2829321..2829704	+	384	VC2658	Fumarate reductase subunit C	Succinate dehydrogenase	Electron donating reactior	Respiratior	2829321	2829704	ref000001		
2670	VCN16961	VCN16961.4051	NC_002505	2829694..2830077	+	384	VC2659	Fumarate reductase subunit D	Succinate dehydrogenase	Electron donating reactior	Respiratior	2829694	2830077	ref000001		
2672	VCN16961	VCN16961.2630	NC_002505	2830790..2831812	+	1023	VC2661	Lysine 2,3-aminomutase (EC 5.4.3.2)	Lysine degradation	Lysine, threonine, methio	Amino Acid	2830790	2831812	ref000001		
2673	VCN16961	VCN16961.4124	NC_002505	2832409..2831849	-	561	VC2662	Uncharacterized low-complexity protein				2831849	2832409	ref000001		
2675	VCN16961	VCN16961.2633	NC_002505	2834254..2832620	-	1635	VC2664	Heat shock protein 60 family chaperone GroEL	GroEL GroES	Protein folding	Protein Me	2832620	2834254	ref000001		
2676	VCN16961	VCN16961.2634	NC_002505	2834598..2834308	-	291	VC2665	Heat shock protein 60 family co-chaperone Gro	GroEL GroES	Protein folding	Protein Me	2834308	2834598	ref000001		
2677	VCN16961	VCN16961.2635	NC_002505	2834958..2835575	+	618	VC2666	Predicted transcriptional regulator				2834958	2835575	ref000001		
2681	VCN16961	VCN16961.4291	NC_002505	2837254..2838027	+	774	VC2670	Triosephosphate isomerase (EC 5.3.1.1)	MLST	Central carbohydrate met	Carbohydr	2837254	2838027	ref000001		
2683	VCN16961	VCN16961.2641	NC_002505	2840128..2839613	-	516	VC2672	Ribonuclease E inhibitor RraA	RNA processing and degradation, bac	RNA processing and mod	RNA Metal	2839613	2840128	ref000001		
2684	VCN16961	VCN16961.2642	NC_002505	2841120..2840203	-	918	VC2673	1,4-dihydroxy-2-naphthoate octaprenyltransfera	Menaquinone and Phylloquinone Bios	Quinone cofactors	Cofactors,	2840203	2841120	ref000001		
2685	VCN16961	VCN16961.2643	NC_002505	2842555..2841224	-	1332	VC2674	ATP-dependent hsl protease ATP-binding subu	Proteasome bacterial	Protein degradation	Protein Me	2841224	2842555	ref000001		
2686	VCN16961	VCN16961.2644	NC_002505	2843178..2842621	-	558	VC2675	ATP-dependent protease hslV (EC 3.4.25.-)	Proteasome bacterial	Protein degradation	Protein Me	2842621	2843178	ref000001		
2687	VCN16961	VCN16961.2645	NC_002505	2843866..2843315	-	552	VC2676	Cell division protein				2843315	2843866	ref000001		
2688	VCN16961	VCN16961.2646	NC_002505	2845045..2844038	-	1008	VC2677	Transcriptional (co)regulator CytR	CytR regulation	Regulation and Cell signa	Regulation	2844038	2845045	ref000001		
2693	VCN16961	VCN16961.2651	NC_002505	2850041..2849724	-	318	VC2682	Methionine repressor MetJ	Methionine Biosynthesis	Lysine, threonine, methio	Amino Acid	2849724	2850041	ref000001		
2694	VCN16961	VCN16961.2652	NC_002505	2850309..2851475	+	1167	VC2683	Cystathionine gamma-synthase (EC 2.5.1.48)	Methionine Biosynthesis	Lysine, threonine, methio	Amino Acid	2850309	2851475	ref000001		
2696	VCN16961	VCN16961.4083	NC_002505	2854186..2855073	+	888	VC2685	5,10-methylenetetrahydrofolate reductase (EC	5-FCL-like protein Experimental	Lysine, threonine, methio	Amino Acid	2854186	2855073	ref000001		
2699	VCN16961	VCN16961.2657	NC_002505	2855699..2856706	+	1008	VC2688	Fructose-1,6-bisphosphatase, GlpX type (EC 3	Embden-Meyerhof and Gluconeogene	Central carbohydrate met	Carbohydr	2855699	2856706	ref000001		
2700	VCN16961	VCN16961.3923	NC_002505	2857745..2856783	-	963	VC2689	6-phosphofructokinase (EC 2.7.1.11)	Hexitol degradation	Central carbohydrate met	Carbohydr	2856783	2857745	ref000001		
2704	VCN16961	VCN16961.2662	NC_002505	2860491..2861885	+	1395	VC2693	Copper sensory histidine kinase CpxA	GJO regulatory system scratch	Regulation and Cell signa	Regulation	2860491	2861885	ref000001		
2705	VCN16961	VCN16961.3978	NC_002505	2862018..2862635	+	618	VC2694	Manganese superoxide dismutase (EC 1.15.1.1	Oxidative stress	Oxidative stress	Stress Res	2862018	2862635	ref000001		
2706	VCN16961	VCN16961.2664	NC_002505	2862688..2863164	+	477	VC2695	tRNA (cytosine34-2'-O-)-methyltransferase (EC	tRNA modification E.coli	Regulation and Cell signa	Regulation	2862688	2863164	ref000001		
2707	VCN16961	VCN16961.2665	NC_002505	2863683..2863198	-	486	VC2696	Protein affecting phage T7 exclusion by the F	plasmid			2863198	2863683	ref000001		
2708	VCN16961	VCN16961.2666	NC_002505	2864713..2863775	-	939	VC2697	GGDEF family protein				2863775	2864713	ref000001		
2709	VCN16961	VCN16961.2667	NC_002505	2864958..2866409	+	1452	VC2698	Aspartate ammonia-lyase (EC 4.3.1.1)	Glutamine, Glutamate, Aspartate and	Glutamine, glutamate, asp	Amino Acid	2864958	2866409	ref000001		
2710	VCN16961	VCN16961.4172	NC_002505	2866537..2867844	+	1308	VC2699	C4-dicarboxylate transporter, anaerobic				2866537	2867844	ref000001		
2712	VCN16961	VCN16961.3919	NC_002505	2869635..2871836	+	2202	VC2700b	Type II secretory pathway, pullulanase				2869635	2871836	ref000001		
2713	VCN16961	VCN16961.2669	NC_002505	2871996..2873798	+	1803	VC2701	Cytochrome c-type biogenesis protein DsbD, p	Periplasmic disulfide interchange	Protein folding	Protein Me	2871996	2873798	ref000001		
2717	VCN16961	VCN16961.4244	NC_002505	2877100..2878803	+	1704	VC2705	Sodium:solute symporter family protein				2877100	2878803	ref000001		
2720	VCN16961	VCN16961.4332	NC_002505	2879941..2880564	+	624	VC2708	Guanylate kinase (EC 2.7.4.8)	CBSS-323097.3.peg.2594	Purines	Nucleoside	2879941	2880564	ref000001		
2721	VCN16961	VCN16961.2677	NC_002505	2880672..2880944	+	273	VC2709	DNA-directed RNA polymerase omega subunit	CBSS-176299.4.peg.1292	Transcription	RNA Metal	2880672	2880944	ref000001		
2723	VCN16961	VCN16961.2679	NC_002505	2883212..2885290	+	2079	VC2711	ATP-dependent DNA helicase RecG (EC 3.6.1	DNA-replication	DNA replication	DNA Metal	2883212	2885290	ref000001		
2724	VCN16961	VCN16961.4228	NC_002505	2885635..2887041	+	1407	VC2712	Xanthine/uracil permease protein				2885635	2887041	ref000001		
2725	VCN16961	VCN16961.2681	NC_002505	2888382..2887066	-	1317	VC2713	Osmolarity sensory histidine kinase EnvZ	Major Outer Membrane Proteins			2887066	2888382	ref000001		
2726	VCN16961	VCN16961.2682	NC_002505	2889173..2888451	-	723	VC2714	Two-component system response regulator On	Major Outer Membrane Proteins			2888451	2889173	ref000001		
2727	VCN16961	VCN16961.2683	NC_002505	2889796..2889311	-	486	VC2715	Transcription elongation factor GreB	CBSS-243265.1.peg.198	Transcription	RNA Metal	2889311	2889796	ref000001		
2728	VCN16961	VCN16961.2684	NC_002505	2890041..2892362	+	2322	VC2716	TRANSCRIPTION ACCESSORY PROTEIN (S	CBSS-243265.1.peg.198			2890041	2892362	ref000001		
2729	VCN16961	VCN16961.4319	NC_002505	2892924..2892454	-	471	VC2717	Putative ATP-dependent Lon protease				2892454	2892924	ref000001		
2730	VCN16961	VCN16961.2686	NC_002505	2893892..2893086	-	807	VC2718	Biotin synthesis protein bioH	Biotin biosynthesis	Biotin	Cofactors,	2893086	2893892	ref000001		
2731	VCN16961	VCN16961.4010	NC_002505	2893846..2894643	+	798	VC2719	Predicted amidophosphoribosyltransferase				2893846	2894643	ref000001		
2733	VCN16961	VCN16961.4185	NC_002505	2895457..2896005	+	549	VC2721	ADP compounds hydrolase NudE (EC 3.6.1.-)	Nudix proteins (nucleoside triphospha	Detoxification	Nucleoside	2895457	2896005	ref000001		
2734	VCN16961	VCN16961.4368	NC_002505	2896028..2896855	+	828	VC2722	3'(2'),5'-bisphosphate nucleotidase (EC 3.1.3.7	Cysteine Biosynthesis	Inorganic sulfur assimilati	Sulfur Meta	2896028	2896855	ref000001		

2735	VCN16961	VCN16961.2691	NC_002505	2897665..2896907	-	759	VC2723	General secretion pathway protein N	General Secretion Pathway	Secretion	Protein Me	2896907	2897665	ref000001	
2736	VCN16961	VCN16961.2692	NC_002505	2898167..2897667	-	501	VC2724	General secretion pathway protein M	General Secretion Pathway	Secretion	Protein Me	2897667	2898167	ref000001	
2737	VCN16961	VCN16961.2693	NC_002505	2899397..2898174	-	1224	VC2725	General secretion pathway protein L	General Secretion Pathway	Secretion	Protein Me	2898174	2899397	ref000001	
2738	VCN16961	VCN16961.2694	NC_002505	2900364..2899354	-	1011	VC2726	General secretion pathway protein K	General Secretion Pathway	Secretion	Protein Me	2899354	2900364	ref000001	
2739	VCN16961	VCN16961.2695	NC_002505	2901019..2900354	-	666	VC2727	General secretion pathway protein J	General Secretion Pathway	Secretion	Protein Me	2900354	2901019	ref000001	
2740	VCN16961	VCN16961.2696	NC_002505	2901359..2901006	-	354	VC2728	General secretion pathway protein I	General Secretion Pathway	Secretion	Protein Me	2901006	2901359	ref000001	
2741	VCN16961	VCN16961.2697	NC_002505	2901933..2901349	-	585	VC2729	General secretion pathway protein H	General Secretion Pathway	Secretion	Protein Me	2901349	2901933	ref000001	
2742	VCN16961	VCN16961.2698	NC_002505	2902407..2901967	-	441	VC2730	General secretion pathway protein G	General Secretion Pathway	Secretion	Protein Me	2901967	2902407	ref000001	
2743	VCN16961	VCN16961.2699	NC_002505	2903668..2902448	-	1221	VC2731	General secretion pathway protein F	General Secretion Pathway	Secretion	Protein Me	2902448	2903668	ref000001	
2744	VCN16961	VCN16961.4287	NC_002505	2905170..2903668	-	1503	VC2732	General secretion pathway protein E	General Secretion Pathway	Secretion	Protein Me	2903668	2905170	ref000001	
2745	VCN16961	VCN16961.3920	NC_002505	2907014..2905176	-	1839	VC2733a	General secretion pathway protein D # frameshf	General Secretion Pathway	Secretion	Protein Me	2905176	2907014	ref000001	
2747	VCN16961	VCN16961.2701	NC_002505	2908162..2907245	-	918	VC2734	General secretion pathway protein C	General Secretion Pathway	Secretion	Protein Me	2907245	2908162	ref000001	
2748	VCN16961	VCN16961.4245	NC_002505	2908392..2908769	+	378	VC2735	Ribosome-associated heat shock protein implic	Heat shock dnaK gene cluster extend	Stress Response - no sub	Stress Res	2908392	2908769	ref000001	
2749	VCN16961	VCN16961.4274	NC_002505	2908803..2909678	+	876	VC2736	33 kDa chaperonin				2908803	2909678	ref000001	
2751	VCN16961	VCN16961.2705	NC_002505	2910015..2911643	+	1629	VC2738	Phosphoenolpyruvate carboxykinase [ATP] (EC	Serine-glyoxylate cycle	Central carbohydrate met	Carbohydr	2910015	2911643	ref000001	
2753	VCN16961	VCN16961.4056	NC_002505	2914684..2913758	-	927	VC2740	galactoside O-acetyltransferase (EC 2.3.1.18),	CBSS-342610.3.peg.283			2913758	2914684	ref000001	
2754	VCN16961	VCN16961.2708	NC_002505	2915191..2914757	-	435	VC2741	D-tyrosyl-tRNA(Tyr) deacylase (EC 3.1.-.-)	CBSS-342610.3.peg.283	Regulation and Cell signa	Regulation	2914757	2915191	ref000001	
2755	VCN16961	VCN16961.2709	NC_002505	2916102..2915209	-	894	VC2742	Ribonuclease BN (EC 3.1.-.-)	CBSS-342610.3.peg.283	RNA processing and mod	RNA Metal	2915209	2916102	ref000001	
2756	VCN16961	VCN16961.2710	NC_002505	2916683..2916129	-	555	VC2743	putative transcriptional regulator				2916129	2916683	ref000001	
2757	VCN16961	VCN16961.2711	NC_002505	2918595..2916766	-	1830	VC2744	GTP-binding protein TypA/BipA	Universal GTPases	Protein biosynthesis	Protein Me	2916766	2918595	ref000001	
2759	VCN16961	VCN16961.2713	NC_002505	2919083..2920492	+	1410	VC2746	Glutamine synthetase type I (EC 6.3.1.2)	Peptidoglycan Biosynthesis	Glutamine, glutamate, as	Amino Acic	2919083	2920492	ref000001	
2761	VCN16961	VCN16961.2715	NC_002505	2921393..2922457	+	1065	VC2748	Nitrogen regulation protein NR(II) (EC 2.7.3.-)	Ammonia assimilation	Nitrogen Metabolism - no	Nitrogen M	2921393	2922457	ref000001	
2762	VCN16961	VCN16961.4329	NC_002505	2922467..2923867	+	1401	VC2749	Nitrogen regulation protein NR(I)	Ammonia assimilation	Nitrogen Metabolism - no	Nitrogen M	2922467	2923867	ref000001	
2763	VCN16961	VCN16961.2717	NC_002505	2923908..2926457	+	2550	VC2750	GGDEF family protein				2923908	2926457	ref000001	
2771	VCN16961	VCN16961.2725	NC_002505	2942322..2944493	+	2172	VC2758	Enoyl-CoA hydratase (EC 4.2.1.17) / Delta(3)-c	Polyhydroxybutyrate metabolism	Fatty Acids and Lipids - n	Fatty Acids	2942322	2944493	ref000001	
2773	VCN16961	VCN16961.4160	NC_002505	2946654..2945749	-	906	VC2760	Hypothetical lysR-family transcriptional regulat	CBSS-326442.4.peg.1852			2945749	2946654	ref000001	
2774	VCN16961	VCN16961.4016	NC_002505	2946813..2948015	+	1203	VC2761	Multidrug resistance protein				2946813	2948015	ref000001	
2775	VCN16961	VCN16961.2729	NC_002505	2949438..2948077	-	1362	VC2762	N-acetylglucosamine-1-phosphate uridyltransfe	Peptidoglycan Biosynthesis	Capsular and extracellula	Cell Wall a	2948077	2949438	ref000001	
2778	VCN16961	VCN16961.2732	NC_002505	2952430..2951564	-	867	VC2765	ATP synthase gamma chain (EC 3.6.3.14)	F0F1-type ATP synthase	ATP synthases	Respiratior	2951564	2952430	ref000001	
2786	VCN16961	VCN16961.2740	NC_002505	2958504..2957731	-	774	VC2773	Chromosome (plasmid) partitioning protein Par	Bacterial Cytoskeleton	Cell cycle in Prokaryota	Cell Divisic	2957731	2958504	ref000001	
2787	VCN16961	VCN16961.2741	NC_002505	2959151..2958519	-	633	VC2774	Ribosomal RNA small subunit methyltransferas	rRNA methylation in clusters			2958519	2959151	ref000001	
2795	VCN16961	VCN16961.4302	NC_002506	5645..6520	+	876	VCA0007	3-hydroxyisobutyrate dehydrogenase (EC 1.1.1	Isobutyryl-CoA to Propionyl-CoA Module			5645	6520	ref000002	
2796	VCN16961	VCN16961.2750	NC_002506	8285..6624	-	1662	VCA0008	Methyl-accepting chemotaxis protein				6624	8285	ref000002	
2799	VCN16961	VCN16961.4155	NC_002506	11694..8986	-	2709	VCA0011	Transcriptional activator of maltose regulon, M	Maltose and Maltodextrin Utilization	Di- and oligosaccharides	Carbohydr	8986	11694	ref000002	
2801	VCN16961	VCN16961.2755	NC_002506	12271..14724	+	2454	VCA0013	Glycogen phosphorylase (EC 2.4.1.1)	Maltose and Maltodextrin Utilization	Central carbohydrate met	Carbohydr	12271	14724	ref000002	
2802	VCN16961	VCN16961.2756	NC_002506	14810..16990	+	2181	VCA0014	4-alpha-glucanotransferase (amylomaltase) (E	Maltose and Maltodextrin Utilization	Central carbohydrate met	Carbohydr	14810	16990	ref000002	
2814	VCN16961	VCN16961.2768	NC_002506	32603..31968	-	636	VCA0026	putative secreted protein				31968	32603	ref000002	
2815	VCN16961	VCN16961.2769	NC_002506	33035..35584	+	2550	VCA0027	Chitinase (EC 3.2.1.14)	Chitin and N-acetylglucosamine utiliza	Aminosugars	Carbohydr	33035	35584	ref000002	
2817	VCN16961	VCN16961.2771	NC_002506	35950..36684	+	735	VCA0029	Transcriptional regulator				35950	36684	ref000002	
2818	VCN16961	VCN16961.2772	NC_002506	36685..37527	+	843	VCA0030	Arginase/agmatinase/formimionoglutamate hydrolase, arginase family				36685	37527	ref000002	
2823	VCN16961	VCN16961.2777	NC_002506	43202..44026	+	825	VCA0035	Membrane-associated phospholipid phosphatase				43202	44026	ref000002	
2824	VCN16961	VCN16961.2778	NC_002506	45297..44080	-	1218	VCA0036	Sodium/dicarboxylate symporter				44080	45297	ref000002	
2828	VCN16961	VCN16961.4187	NC_002506	48214..47303	-	912	VCA0040	membrane protein				47303	48214	ref000002	
2829	VCN16961	VCN16961.2783	NC_002506	48768..49994	+	1227	VCA0041	Sodium/glutamate symporter				48768	49994	ref000002	
2841	VCN16961	VCN16961.4088	NC_002506	62030..61320	-	711	VCA0053	Purine nucleoside phosphorylase (EC 2.4.2.1)	pyrimidine conversions v2	Pyrimidines	Nucleoside	61320	62030	ref000002	
2845	VCN16961	VCN16961.2799	NC_002506	64102..65511	+	1410	VCA0057	Deoxyribodipyrimidine photolyase (EC 4.1.99.3	EC699-706	DNA repair	DNA Metal	64102	65511	ref000002	
2851	VCN16961	VCN16961.2805	NC_002506	68875..70872	+	1998	VCA0063	Protease II (EC 3.4.21.83)	Iron acquisition in Vibrio	Iron Scavenging Mechani	Virulence	68875	70872	ref000002	
2852	VCN16961	VCN16961.2806	NC_002506	70872..73013	+	2142	VCA0064	TonB-dependent heme receptor HutR	Iron acquisition in Vibrio	Iron Scavenging Mechani	Virulence	70872	73013	ref000002	
2858	VCN16961	VCN16961.4064	NC_002506	79473..80294	+	822	VCA0070	Phosphate ABC transporter, periplasmic phosp	Phosphate metabolism	Phosphorus Metabolism -	Phosphoru	79473	80294	ref000002	
2859	VCN16961	VCN16961.4001	NC_002506	80372..81292	+	921	VCA0071	Phosphate transport system permease protein	Phosphate metabolism	Phosphorus Metabolism -	Phosphoru	80372	81292	ref000002	
2860	VCN16961	VCN16961.2814	NC_002506	81292..82161	+	870	VCA0072	Phosphate transport system permease protein	Phosphate metabolism	Phosphorus Metabolism -	Phosphoru	81292	82161	ref000002	
2861	VCN16961	VCN16961.2815	NC_002506	82190..82945	+	756	VCA0073	Phosphate transport ATP-binding protein pstB	Phosphate metabolism	Phosphorus Metabolism -	Phosphoru	82190	82945	ref000002	
2862	VCN16961	VCN16961.2816	NC_002506	84092..82992	-	1101	VCA0074	Transcriptional regulator CdgA	Vibrio Polysaccharide (VPS) Biosynth	Regulation of virulence	Virulence	82992	84092	ref000002	
2865	VCN16961	VCN16961.2819	NC_002506	88319..86658	-	1662	VCA0077	Sulfate permease	Superpathway of cysteine biosynthesi	Lysine, threonine, methio	Amino Acic	86658	88319	ref000002	
2866	VCN16961	VCN16961.4103	NC_002506	88657..88956	+	300	VCA0078	1,4-alpha-glucan branching enzyme (EC 2.4.1.	Sucrose Metabolism	Di- and oligosaccharides	Carbohydr	88657	88956	ref000002	
2868	VCN16961	VCN16961.2822	NC_002506	92381..90558	-	1824	VCA0080	GGDEF family protein				90558	92381	ref000002	
2870	VCN16961	VCN16961.2824	NC_002506	93491..92604	-	888	VCA0082	Transcriptional regulator				92604	93491	ref000002	
2871	VCN16961	VCN16961.2825	NC_002506	93581..94792	+	1212	VCA0083	Multidrug resistance protein D				93581	94792	ref000002	
2873	VCN16961	VCN16961.2827	NC_002506	95459..96661	+	1203	VCA0085	Permease of the major facilitator superfamily				95459	96661	ref000002	
2878	VCN16961	VCN16961.2832	NC_002506	99969..99076	-	894	VCA0090	Permease of the drug/metabolite transporter (D	Cobalt-zinc-cadmium resistance	RNA processing and mod	RNA Metal	99076	99969	ref000002	
2885	VCN16961	VCN16961.2839	NC_002506	105114..104398	-	717	VCA0097	Nudix-related transcriptional regulator NrtR	NAD regulation			104398	105114	ref000002	
2886	VCN16961	VCN16961.2840	NC_002506	105513..106820	+	1308	VCA0098	Nicotinate phosphoribosyltransferase (EC 2.4.2	NAD and NADP cofactor biosynthesis	NAD and NADP	Cofactors,	105513	106820	ref000002	
2887	VCN16961	VCN16961.2841	NC_002506	106851..107891	+	1041	VCA0099	Predicted dehydrogenase				106851	107891	ref000002	
2888	VCN16961	VCN16961.2842	NC_002506	108299..107928	-	372	VCA0100	Phage shock protein E	Phage shock protein (psp) operon	Stress Response - no sub	Stress Res	107928	108299	ref000002	
2889	VCN16961	VCN16961.2843	NC_002506	109855..108299	-	1557	VCA0101	Rtn protein				108299	109855	ref000002	
2890	VCN16961	VCN16961.4080	NC_002506	110681..110031	-	651	VCA0102	CbbY family protein				110031	110681	ref000002	
2891	VCN16961	VCN16961.4318	NC_002506	110880..112649	+	1770	VCA0103	Putative sulfate permease		Inorganic sulfur assimilati	Sulfur Meta	110880	112649	ref000002	
2892	VCN16961	VCN16961.2846	NC_002506	113356..112691	-	666	VCA0104	ribosomal large subunit pseudouridine synthase A				112691	113356	ref000002	
2896	VCN16961	VCN16961.2850	NC_002506	117393..118871	+	1479	VCA0108	Uncharacterized protein ImpC	USS-DB-7			117393	118871	ref000002	
2899	VCN16961	VCN16961.2853	NC_002506	121050..122066	+	1017	VCA0111	Uncharacterized protein ImpH/VasB	USS-DB-7			121050	122066	ref000002	
2900	VCN16961	VCN16961.2854	NC_002506	122069..123556	+	1488	VCA0112	Uncharacterized protein ImpI/VasC	Type VI secretion systems			122069	123556	ref000002	
2904	VCN16961	VCN16961.2858	NC_002506	126178..128787	+	2610	VCA0116	ClpB protein	Type VI secretion systems			126178	128787	ref000002	
2905	VCN16961	VCN16961.2859	NC_002506	128790..130382	+	1593	VCA0117	Sigma-54 dependent transcriptional regulator	Type VI secretion systems			128790	130382	ref000002	
2906	VCN16961	VCN16961.2860	NC_002506	130352..131035	+	684	VCA0118	Type VI secretion protein VasI	Type VI secretion systems			130352	131035	ref000002	
2908	VCN16961	VCN16961.2862	NC_002506	132470..136015	+	3546	VCA0120	IcmF-related protein	Type VI secretion systems			132470	136015	ref000002	

2909	VCN16961	VCN16961.2863	NC_002506	136063..137328	+	1266	VCA0121	Type VI secretion-related protein VasL				136063	137328	ref000002	
2911	VCN16961	VCN16961.2865	NC_002506	137581..140634	+	3054	VCA0123	VgrG protein				137581	140634	ref000002	
2915	VCN16961	VCN16961.4281	NC_002506	141691..142110	+	420	VCA0127	Ribose ABC transport system, high affinity perr	D-ribose utilization	Monosaccharides	Carbohydr	141691	142110	ref000002	
2916	VCN16961	VCN16961.2870	NC_002506	142137..143639	+	1503	VCA0128	Ribose ABC transport system, ATP-binding prc	D-ribose utilization	Monosaccharides	Carbohydr	142137	143639	ref000002	
2918	VCN16961	VCN16961.2872	NC_002506	144693..145577	+	885	VCA0130	Ribose ABC transport system, periplasmic ribo	Bacterial Chemotaxis	Motility and Chemotaxis -	Motility and	144693	145577	ref000002	
2920	VCN16961	VCN16961.2874	NC_002506	146647..147651	+	1005	VCA0132	Ribose operon repressor	Ribose and deoxyribose phosphate m	Monosaccharides	Carbohydr	146647	147651	ref000002	
2925	VCN16961	VCN16961.2877	NC_002506	151227..150112	-	1116	VCA0136	Glycerophosphoryl diester phosphodiesterase	CBSS-176299.4.peg.1996	Sugar alcohols	Carbohydr	150112	151227	ref000002	
2929	VCN16961	VCN16961.4170	NC_002506	153911..155080	+	1170	VCA0140	Spindolin-related protein				153911	155080	ref000002	
2930	VCN16961	VCN16961.2882	NC_002506	157249..155195	-	2055	VCA0141	C4-dicarboxylate transport sensor protein, putative				155195	157249	ref000002	
2931	VCN16961	VCN16961.2883	NC_002506	157539..158891	+	1353	VCA0142	C4-dicarboxylate transport transcriptional regulatory protein				157539	158891	ref000002	
2933	VCN16961	VCN16961.4355	NC_002506	159193..160200	+	1008	VCA0144	Immunogenic protein				159193	160200	ref000002	
2936	VCN16961	VCN16961.2888	NC_002506	162512..163723	+	1212	VCA0147	Hypothetical protein YgaF				162512	163723	ref000002	
2937	VCN16961	VCN16961.2889	NC_002506	163832..167839	+	4008	VCA0148	TagA-related protein				163832	167839	ref000002	
2948	VCN16961	VCN16961.2900	NC_002506	176997..176056	-	942	VCA0159	Universal stress protein family 1	Multiple resistance and pH-related ant	Stress Response - no sut	Stress Res	176056	176997	ref000002	
2949	VCN16961	VCN16961.4025	NC_002506	178407..177193	-	1215	VCA0160	Tryptophan-specific transport protein				177193	178407	ref000002	
2955	VCN16961	VCN16961.2907	NC_002506	184257..184469	+	213	VCA0166	cold shock transcriptional regulator CspA		Cold shock	Stress Res	184257	184469	ref000002	
2956	VCN16961	VCN16961.4349	NC_002506	185474..184758	-	717	VCA0167	PUTATIVE PERIPLASMIC PROTEIN				184758	185474	ref000002	
2960	VCN16961	VCN16961.2912	NC_002506	189224..187284	-	1941	VCA0171	TPR domain protein in aerotolerance operon	CBSS-345072.3.peg.1318			187284	189224	ref000002	
2961	VCN16961	VCN16961.2913	NC_002506	190182..189226	-	957	VCA0172	BatA (Bacteroides aerotolerance operon)	CBSS-345072.3.peg.1318			189226	190182	ref000002	
2964	VCN16961	VCN16961.2916	NC_002506	192549..191593	-	957	VCA0175	MoxR-like ATPase in aerotolerance operon	CBSS-345072.3.peg.1318			191593	192549	ref000002	
2965	VCN16961	VCN16961.4119	NC_002506	192852..194768	+	1917	VCA0176	Methyl-accepting chemotaxis protein				192852	194768	ref000002	
2966	VCN16961	VCN16961.4015	NC_002506	194828..195028	+	201	VCA0177	Chromosome segregation ATPase				194828	195028	ref000002	
2967	VCN16961	VCN16961.2919	NC_002506	195957..195304	-	654	VCA0178	frnE protein				195304	195957	ref000002	
2968	VCN16961	VCN16961.2920	NC_002506	196603..197811	+	1209	VCA0179	Nucleoside permease nupC				196603	197811	ref000002	
2969	VCN16961	VCN16961.2921	NC_002506	198062..199294	+	1233	VCA0180	Tripeptide aminopeptidase (EC 3.4.11.4)	Glutathione Redox Metabolism	Oxidative stress	Stress Res	198062	199294	ref000002	
2970	VCN16961	VCN16961.2922	NC_002506	199466..200341	+	876	VCA0181	Small-conductance mechanosensitive channel				199466	200341	ref000002	
2971	VCN16961	VCN16961.2923	NC_002506	201930..200338	-	1593	VCA0182	Anaerobic nitric oxide reductase transcription r	Nitrosative stress	Nitrogen Metabolism - no	Nitrogen M	200338	201930	ref000002	
2972	VCN16961	VCN16961.2924	NC_002506	202121..203305	+	1185	VCA0183	Flavohemoprotein (Hemoglobin-like protein) (F	Glutaredoxins	Regulation and Cell signa	Regulation	202121	203305	ref000002	
2973	VCN16961	VCN16961.2925	NC_002506	203658..203449	-	210	VCA0184	Cold shock DNA-binding domain protein		Cold shock	Stress Res	203449	203658	ref000002	
2975	VCN16961	VCN16961.2927	NC_002506	204632..205009	+	378	VCA0186	NADH:ubiquinone oxidoreductase subunit 2				204632	205009	ref000002	
2978	VCN16961	VCN16961.2930	NC_002506	205609..206613	+	1005	VCA0189	Chemotaxis protein CheC -- inhibitor of MCP m	CBSS-323850.3.peg.3142	Motility and Chemotaxis -	Motility and	205609	206613	ref000002	
2980	VCN16961	VCN16961.2932	NC_002506	207097..208581	+	1485	VCA0191	YjeF protein, function unknown	YjeE	Cell Wall and Capsule - n	Cell Wall a	207097	208581	ref000002	
2981	VCN16961	VCN16961.2933	NC_002506	209565..208570	-	996	VCA0192	D-lactate dehydrogenase (EC 1.1.1.28)	Fermentations: Lactate	Fermentation	Carbohydr	208570	209565	ref000002	
2982	VCN16961	VCN16961.2934	NC_002506	209748..211091	+	1344	VCA0193	Methionine transporter MetT	Methionine Biosynthesis	Lysine, threonine, methio	Amino Acic	209748	211091	ref000002	
2983	VCN16961	VCN16961.2935	NC_002506	211935..211093	-	843	VCA0194	Potassium voltage-gated channel subfamily KQ	Potassium homeostasis	Membrane Transport - no	Membrane	211093	211935	ref000002	
2986	VCN16961	VCN16961.2938	NC_002506	213207..214250	+	1044	VCA0197	GMP reductase (EC 1.7.1.7)	Purine conversions	Purines	Nucleoside	213207	214250	ref000002	
2992	VCN16961	VCN16961.2944	NC_002506	222122..220767	-	1356	VCA0204	ATP-dependent RNA helicase RhlE	ATP-dependent RNA helicases, bacte	RNA processing and mod	RNA Metal	220767	222122	ref000002	
2993	VCN16961	VCN16961.2945	NC_002506	223640..222312	-	1329	VCA0205	C4-dicarboxylate like transporter	Fumarate respiration and methabolism			222312	223640	ref000002	
2995	VCN16961	VCN16961.2947	NC_002506	224721..223891	-	831	VCA0207	NAD synthetase (EC 6.3.1.5)	NAD and NADP cofactor biosynthesis	NAD and NADP	Cofactors,	223891	224721	ref000002	
2998	VCN16961	VCN16961.4331	NC_002506	225618..227159	+	1542	VCA0210	Response regulator				225618	227159	ref000002	
2999	VCN16961	VCN16961.2951	NC_002506	229163..227217	-	1947	VCA0211	Signal transduction histidine kinase				227217	229163	ref000002	
3000	VCN16961	VCN16961.2952	NC_002506	229338..230387	+	1050	VCA0212	ABC-type sugar transport system, ATPase component				229338	230387	ref000002	
3001	VCN16961	VCN16961.2953	NC_002506	232054..230465	-	1590	VCA0213	Na+/H+ antiporter				230465	232054	ref000002	
3002	VCN16961	VCN16961.2954	NC_002506	233693..232449	-	1245	VCA0214	Multidrug resistance protein D				232449	233693	ref000002	
3005	VCN16961	VCN16961.2957	NC_002506	235243..234164	-	1080	VCA0217	GGDEF family protein				234164	235243	ref000002	
3008	VCN16961	VCN16961.2960	NC_002506	240114..241760	+	1647	VCA0220	Methyl-accepting chemotaxis protein, hemolysi	Cytolysin and Lipase operon in Vibrio	Invasion and intracellular	Virulence	240114	241760	ref000002	
3011	VCN16961	VCN16961.2963	NC_002506	246742..243986	-	2757	VCA0223	Metalloprotease, putative zinc-binding domain	Cytolysin and Lipase operon in Vibrio	Invasion and intracellular	Virulence	243986	246742	ref000002	
3026	VCN16961	VCN16961.2977	NC_002506	258742..260391	+	1650	VCA0238	sensor histidine kinase				258742	260391	ref000002	
3027	VCN16961	VCN16961.2978	NC_002506	260372..261046	+	675	VCA0239	Transcriptional regulator				260372	261046	ref000002	
3029	VCN16961	VCN16961.2980	NC_002506	262522..261638	-	885	VCA0241	L-xylulose 5-phosphate 3-epimerase (EC 5.1.3	L-ascorbate utilization (and related ge	Monosaccharides	Carbohydr	261638	262522	ref000002	
3030	VCN16961	VCN16961.2981	NC_002506	263181..262534	-	648	VCA0242	3-keto-L-gulonate 6-phosphate decarboxylase	L-ascorbate utilization (and related ge	Monosaccharides	Carbohydr	262534	263181	ref000002	
3035	VCN16961	VCN16961.2986	NC_002506	267445..268200	+	756	VCA0247	Putative DeoR-type transcriptional regulator, e	L-ascorbate utilization (and related ge	Monosaccharides	Carbohydr	267445	268200	ref000002	
3036	VCN16961	VCN16961.2987	NC_002506	268327..269394	+	1068	VCA0248	Putative L-ascorbate 6-phosphate lactonase (E	L-ascorbate utilization (and related ge	Monosaccharides	Carbohydr	268327	269394	ref000002	
3037	VCN16961	VCN16961.2988	NC_002506	270027..269494	-	534	VCA0249	putative cytochrome b561				269494	270027	ref000002	
3045	VCN16961	VCN16961.2995	NC_002506	277008..276337	-	672	VCA0256	Transcriptional regulator				276337	277008	ref000002	
3058	VCN16961	VCN16961.3008	NC_002506	286981..288654	+	1674	VCA0269	Glutamate decarboxylase				286981	288654	ref000002	
3069	VCN16961	VCN16961.3017	NC_002506	298001..298624	+	624	VCA0279	Predicted transcriptional regulator				298001	298624	ref000002	
3305	VCN16961	VCN16961.4152	NC_002506	446897..445161	-	1737	VCA0516	PTS system, fructose-specific IIB component (I	PTS uptake system scrtach	Monosaccharides	Carbohydr	445161	446897	ref000002	
3306	VCN16961	VCN16961.3249	NC_002506	447869..446916	-	954	VCA0517	1-phosphofructokinase (EC 2.7.1.56)	Fructose utilization	Monosaccharides	Carbohydr	446916	447869	ref000002	
3307	VCN16961	VCN16961.3250	NC_002506	449082..447880	-	1203	VCA0518	Fructose-specific phosphocarrier protein HPr (I	PTS uptake system scrtach	Monosaccharides	Carbohydr	447880	449082	ref000002	
3308	VCN16961	VCN16961.3251	NC_002506	449421..450401	+	981	VCA0519	Fructose repressor FruR, LacI family	Fructose utilization	Monosaccharides	Carbohydr	449421	450401	ref000002	
3310	VCN16961	VCN16961.3253	NC_002506	451596..454637	+	3042	VCA0521	Exonuclease SbcC	DNA repair, bacterial	DNA repair	DNA Metal	451596	454637	ref000002	
3311	VCN16961	VCN16961.3254	NC_002506	454734..456794	+	2061	VCA0522	Sensor histidine kinase CqsS	Quorum-sensing in Vibrio			454734	456794	ref000002	
3312	VCN16961	VCN16961.3255	NC_002506	458192..457023	-	1170	VCA0523	8-amino-7-oxononanoate synthase (EC 2.3.1.4	Quorum-sensing in Vibrio	Biotin	Cofactors,	457023	458192	ref000002	
3316	VCN16961	VCN16961.3259	NC_002506	461371..462360	+	990	VCA0527	COG0523: Putative GTPases (G3E family)	Transport of Zinc			461371	462360	ref000002	
3317	VCN16961	VCN16961.3260	NC_002506	463368..462424	-	945	VCA0528	50S ribosomal subunit maturation GTPase RbC	Conserved gene cluster associated wi	Protein biosynthesis	Protein Me	462424	463368	ref000002	
3347	VCN16961	VCN16961.3289	NC_002506	495055..496623	+	1569	VCA0558	Gamma-glutamyltranspeptidase (EC 2.3.2.2)	Glutathione Redox Metabolism	Oxidative stress	Stress Res	495055	496623	ref000002	
3352	VCN16961	VCN16961.3294	NC_002506	500227..501765	+	1539	VCA0563	NAD(P) transhydrogenase alpha subunit (EC 1	NAD and NADP cofactor biosynthesis	NAD and NADP	Cofactors,	500227	501765	ref000002	
3353	VCN16961	VCN16961.3295	NC_002506	501777..503153	+	1377	VCA0564	NAD(P) transhydrogenase subunit beta (EC 1.(	NAD and NADP cofactor biosynthesis	NAD and NADP	Cofactors,	501777	503153	ref000002	
3354	VCN16961	VCN16961.4218	NC_002506	503341..504753	+	1413	VCA0565	Signal transduction histidine kinase				503341	504753	ref000002	
3355	VCN16961	VCN16961.4049	NC_002506	504728..505384	+	657	VCA0566	Transcriptional regulator				504728	505384	ref000002	
3359	VCN16961	VCN16961.3301	NC_002506	508596..508285	-	312	VCA0570	Translation initiation factor SUI1-related protein	Translation factors bacterial	Protein biosynthesis	Protein Me	508285	508596	ref000002	
3370	VCN16961	VCN16961.3312	NC_002506	519996..520787	+	792	VCA0581	Zn-dependent protease with chaperone function				519996	520787	ref000002	
3373	VCN16961	VCN16961.3315	NC_002506	523036..522368	-	669	VCA0584	Glutathione S-transferase (EC 2.5.1.18)	cAMP signaling in bacteria	Regulation and Cell signa	Regulation	522368	523036	ref000002	
3374	VCN16961	VCN16961.3316	NC_002506	523659..523048	-	612	VCA0585	Glutathione S-transferase (EC 2.5.1.18)	cAMP signaling in bacteria	Regulation and Cell signa	Regulation	523048	523659	ref000002	

3375	VCN16961	VCN16961.3317	NC_002506	523761..524357	+	597	VCA0586	Transcriptional regulator				523761	524357	ref000002	
3377	VCN16961	VCN16961.3319	NC_002506	526422..524830	-	1593	VCA0588	Putative ABC transporter ATP-binding protein				524830	526422	ref000002	
3378	VCN16961	VCN16961.3320	NC_002506	527477..526419	-	1059	VCA0589	Oligopeptide transport system permease protein oppC				526419	527477	ref000002	
3379	VCN16961	VCN16961.3321	NC_002506	528556..527474	-	1083	VCA0590	peptide ABC transporter, permease protein, putative				527474	528556	ref000002	
3380	VCN16961	VCN16961.3322	NC_002506	530400..528565	-	1836	VCA0591	Putative substrate-binding transport protein				528565	530400	ref000002	
3381	VCN16961	VCN16961.4150	NC_002506	531118..530597	-	522	VCA0592	MutT/nudix family protein				530597	531118	ref000002	
3383	VCN16961	VCN16961.3325	NC_002506	532353..532634	+	282	VCA0594	Hemolysin				532353	532634	ref000002	
3388	VCN16961	VCN16961.3329	NC_002506	536366..535461	-	906	VCA0599	Permease of the drug/metabolite transporter (D	Cobalt-zinc-cadmium resistance	RNA processing and mod	RNA Metal	535461	536366	ref000002	
3389	VCN16961	VCN16961.3330	NC_002506	537136..536432	-	705	VCA0600	2-aminoethylphosphonate uptake and metaboli	Phosphonate metabolism	Phosphorus Metabolism -	Phosphoru	536432	537136	ref000002	
3393	VCN16961	VCN16961.3334	NC_002506	541490..542593	+	1104	VCA0604	2-aminoethylphosphonate:pyruvate aminotrans	Phosphonate metabolism	Phosphorus Metabolism -	Phosphoru	541490	542593	ref000002	
3399	VCN16961	VCN16961.3340	NC_002506	546518..547168	+	651	VCA0610	Sigma cross-reacting protein 27A				546518	547168	ref000002	
3401	VCN16961	VCN16961.3342	NC_002506	547439..547849	+	411	VCA0612	Large-conductance mechanosensitive channel	Glutathione-regulated potassium-efflu	Potassium metabolism - r	Potassium	547439	547849	ref000002	
3403	VCN16961	VCN16961.4277	NC_002506	548080..549828	+	1749	VCA0614	Formate--tetrahydrofolate ligase (EC 6.3.4.3)	Folate Biosynthesis	Folate and pterines	Cofactors,	548080	549828	ref000002	
3404	VCN16961	VCN16961.3345	NC_002506	549956..551140	+	1185	VCA0615	Peptide methionine sulfoxide reductase				549956	551140	ref000002	
3405	VCN16961	VCN16961.4044	NC_002506	551886..551233	-	654	VCA0616	GTP cyclohydrolase I (EC 3.5.4.16) type 1	Folate Biosynthesis	Folate and pterines	Cofactors,	551233	551886	ref000002	
3406	VCN16961	VCN16961.4412	NC_002506	552038..553273	+	1236	VCA0617	Molybdopterin biosynthesis protein A	Molybdopterin experimental	Folate and pterines	Cofactors,	552038	553273	ref000002	
3407	VCN16961	VCN16961.3348	NC_002506	553276..554040	+	765	VCA0618	Molybdopterin biosynthesis protein B	Molybdopterin experimental	Folate and pterines	Cofactors,	553276	554040	ref000002	
3409	VCN16961	VCN16961.3350	NC_002506	554614..555444	+	831	VCA0620	thiosulfate sulfurtransferase SseA, putative				554614	555444	ref000002	
3410	VCN16961	VCN16961.3351	NC_002506	556524..555529	-	996	VCA0621	Transcriptional regulator				555529	556524	ref000002	
3412	VCN16961	VCN16961.3353	NC_002506	557117..558067	+	951	VCA0623	Transaldolase (EC 2.2.1.2)	Folate Biosynthesis	Folate and pterines	Cofactors,	557117	558067	ref000002	
3416	VCN16961	VCN16961.3357	NC_002506	562843..563355	+	513	VCA0627	RRNA methylase, putative				562843	563355	ref000002	
3419	VCN16961	VCN16961.3360	NC_002506	568262..567291	-	972	VCA0630	D-3-phosphoglycerate dehydrogenase (EC 1.1	ZZ gjo scratch	Pyridoxine	Cofactors,	567291	568262	ref000002	
3421	VCN16961	VCN16961.3362	NC_002506	569275..568826	-	450	VCA0632	MutT/nudix family protein				568826	569275	ref000002	
3427	VCN16961	VCN16961.3368	NC_002506	575896..572693	-	3204	VCA0638	Acriflavin resistance protein	Acriflavin resistance cluster			572693	575896	ref000002	
3428	VCN16961	VCN16961.3369	NC_002506	576857..575853	-	1005	VCA0639	Efflux transporter, RND family, MFP subunit, A	Acriflavin resistance cluster			575853	576857	ref000002	
3429	VCN16961	VCN16961.4146	NC_002506	577425..576967	-	459	VCA0640	Predicted transporter component				576967	577425	ref000002	
3431	VCN16961	VCN16961.3372	NC_002506	578189..577872	-	318	VCA0642	Transcriptional regulator, ArsR family	cAMP signaling in bacteria	Regulation and Cell signa	Regulation	577872	578189	ref000002	
3433	VCN16961	VCN16961.3374	NC_002506	578595..580298	+	1704	VCA0644	Putative pyridine nucleotide-disulphide oxidore	ductase			578595	580298	ref000002	
3434	VCN16961	VCN16961.3375	NC_002506	580771..580391	-	381	VCA0645	Glyoxalase family protein	Serine-glyoxylate cycle	One-carbon Metabolism	Carbohydr	580391	580771	ref000002	
3435	VCN16961	VCN16961.3376	NC_002506	582704..580887	-	1818	VCA0646	Putative hemolysin				580887	582704	ref000002	
3443	VCN16961	VCN16961.3384	NC_002506	588792..589784	+	993	VCA0654	Sucrose operon repressor ScrR, LacI family	Sucrose utilization	Di- and oligosaccharides	Carbohydr	588792	589784	ref000002	
3445	VCN16961	VCN16961.3386	NC_002506	592599..591628	-	972	VCA0656	Fructokinase (EC 2.7.1.4)	Sucrose Metabolism	Di- and oligosaccharides	Carbohydr	591628	592599	ref000002	
3446	VCN16961	VCN16961.3387	NC_002506	592946..594484	+	1539	VCA0657	Aerobic glycerol-3-phosphate dehydrogenase (	Respiratory dehydrogenases 1	Electron donating reactior	Respiratior	592946	594484	ref000002	
3447	VCN16961	VCN16961.4405	NC_002506	596148..594586	-	1563	VCA0658	Methyl-accepting chemotaxis protein				594586	596148	ref000002	
3448	VCN16961	VCN16961.3389	NC_002506	597005..596382	-	624	VCA0659	Protein F-related protein	Flavohaemoglobin	Stress Response - no sut	Stress Res	596382	597005	ref000002	
3450	VCN16961	VCN16961.3391	NC_002506	597218..597691	+	474	VCA0661	FKBP-type peptidyl-prolyl cis-trans isomerase /	Flavohaemoglobin	Stress Response - no sut	Stress Res	597218	597691	ref000002	
3451	VCN16961	VCN16961.3392	NC_002506	598410..597772	-	639	VCA0662	hydrolase, haloacid dehalogenase-like family				597772	598410	ref000002	
3452	VCN16961	VCN16961.3393	NC_002506	598557..600320	+	1764	VCA0663	Methyl-accepting chemotaxis protein				598557	600320	ref000002	
3453	VCN16961	VCN16961.3395	NC_002506	600714..602093	+	1380	VCA0665	Anaerobic C4-dicarboxylate transporter dcuC				600714	602093	ref000002	
3454	VCN16961	VCN16961.3396	NC_002506	603621..602191	-	1431	VCA0666	L-serine dehydratase (EC 4.3.1.17)	Glycine cleavage system	Alanine, serine, and glyci	Amino Acic	602191	603621	ref000002	
3464	VCN16961	VCN16961.3404	NC_002506	611548..609797	-	1752	VCA0675	Nitrate/nitrite sensor protein (EC 2.7.3.-)	Nitrate and nitrite ammonification	Nitrogen Metabolism - no	Nitrogen M	609797	611548	ref000002	
3465	VCN16961	VCN16961.4085	NC_002506	611718..612212	+	495	VCA0676	Ferredoxin-type protein NapF (periplasmic nitra	Nitrate and nitrite ammonification	Nitrogen Metabolism - no	Nitrogen M	611718	612212	ref000002	
3466	VCN16961	VCN16961.3959	NC_002506	612239..612559	+	321	VCA0677	Periplasmic nitrate reductase component NapD	Nitrate and nitrite ammonification	Nitrogen Metabolism - no	Nitrogen M	612239	612559	ref000002	
3467	VCN16961	VCN16961.3407	NC_002506	612556..615045	+	2490	VCA0678	Periplasmic nitrate reductase precursor (EC 1.7	Nitrate and nitrite ammonification	Nitrogen Metabolism - no	Nitrogen M	612556	615045	ref000002	
3468	VCN16961	VCN16961.4255	NC_002506	615112..615567	+	456	VCA0679	Nitrate reductase cytochrome c550-type subun	Nitrate and nitrite ammonification	Nitrogen Metabolism - no	Nitrogen M	615112	615567	ref000002	
3469	VCN16961	VCN16961.3409	NC_002506	615585..616160	+	576	VCA0680	Cytochrome c-type protein NapC	trimethylamine N-oxide (TMAO) reduc	Nitrogen Metabolism - no	Nitrogen M	615585	616160	ref000002	
3471	VCN16961	VCN16961.3410	NC_002506	617639..616344	-	1296	VCA0681	HDIG domain protein				616344	617639	ref000002	
3472	VCN16961	VCN16961.3411	NC_002506	617798..618424	+	627	VCA0682	Transcriptional regulatory protein UhpA	Hexose Phosphate Uptake System	Uptake system	Carbohydr	617798	618424	ref000002	
3473	VCN16961	VCN16961.3412	NC_002506	618427..620010	+	1584	VCA0683	Sensor histidine protein kinase UhpB, glucose-	Hexose Phosphate Uptake System	Uptake system	Carbohydr	618427	620010	ref000002	
3474	VCN16961	VCN16961.3413	NC_002506	620078..621388	+	1311	VCA0684	Hexose phosphate uptake regulatory protein U	Hexose Phosphate Uptake System	Uptake system	Carbohydr	620078	621388	ref000002	
3475	VCN16961	VCN16961.3414	NC_002506	621501..622535	+	1035	VCA0685	ABC transporter of unknown compound (not Fe3+), periplasmic substrate-binding protein				621501	622535	ref000002	
3476	VCN16961	VCN16961.3415	NC_002506	622639..624741	+	2103	VCA0686	ABC transporter of unknown compound (not Fe3+), permease protein				622639	624741	ref000002	
3477	VCN16961	VCN16961.3416	NC_002506	624753..625808	+	1056	VCA0687	ABC transporter of unknown compound (not Fe3+), ATP-binding protein				624753	625808	ref000002	
3478	VCN16961	VCN16961.3417	NC_002506	627669..625894	-	1776	VCA0688	Polyhydroxyalkanoic acid synthase	Polyhydroxybutyrate metabolism	Fatty Acids and Lipids - n	Fatty Acids	625894	627669	ref000002	
3480	VCN16961	VCN16961.3419	NC_002506	629309..628104	-	1206	VCA0690	3-ketoacyl-CoA thiolase (EC 2.3.1.16); Acetyl-C	Polyhydroxybutyrate metabolism	Biotin	Cofactors,	628104	629309	ref000002	
3481	VCN16961	VCN16961.3420	NC_002506	630062..629322	-	741	VCA0691	Acetoacetyl-CoA reductase (EC 1.1.1.36)	Polyhydroxybutyrate metabolism	Fatty Acids and Lipids - n	Fatty Acids	629322	630062	ref000002	
3485	VCN16961	VCN16961.3423	NC_002506	634750..634079	-	672	VCA0695	SH3 domain protein				634079	634750	ref000002	
3487	VCN16961	VCN16961.3425	NC_002506	635108..637036	+	1929	VCA0697	Sensory box/GGDEF family protein				635108	637036	ref000002	
3489	VCN16961	VCN16961.3427	NC_002506	637339..638562	+	1224	VCA0699	Glucose-1-phosphate adenylyltransferase (EC	Sucrose Metabolism	Central carbohydrate met	Carbohydr	637339	638562	ref000002	
3492	VCN16961	VCN16961.3430	NC_002506	642655..643803	+	1149	VCA0702	Iron-containing alcohol dehydrogenase				642655	643803	ref000002	
3493	VCN16961	VCN16961.3431	NC_002506	643882..644571	+	690	VCA0703	putative membrane protein				643882	644571	ref000002	
3494	VCN16961	VCN16961.4387	NC_002506	645830..644568	-	1263	VCA0704	Phosphoglycerate transport system transcriptional regulatory protein PgtA				644568	645830	ref000002	
3495	VCN16961	VCN16961.3433	NC_002506	648174..645805	-	2370	VCA0705	Phosphoglycerate transport regulatory protein PgtB				645805	648174	ref000002	
3496	VCN16961	VCN16961.3434	NC_002506	649493..648171	-	1323	VCA0706	Phosphoglycerate transport regulatory protein PgtC				648171	649493	ref000002	
3497	VCN16961	VCN16961.3435	NC_002506	649740..651119	+	1380	VCA0707	Phosphoglycerate transporter protein				649740	651119	ref000002	
3498	VCN16961	VCN16961.3436	NC_002506	651241..652701	+	1461	VCA0708	Pyruvate kinase (EC 2.7.1.40)	Glycerate metabolism	Central carbohydrate met	Carbohydr	651241	652701	ref000002	
3499	VCN16961	VCN16961.3437	NC_002506	655882..652820	-	3063	VCA0709	Sensor protein torS (EC 2.7.3.-)	trimethylamine N-oxide (TMAO) reduc	Electron accepting reactic	Respiratior	652820	655882	ref000002	
3500	VCN16961	VCN16961.3438	NC_002506	655805..656854	+	1050	VCA0710	Periplasmic protein torT precursor	trimethylamine N-oxide (TMAO) reduc	Electron accepting reactic	Respiratior	655805	656854	ref000002	
3501	VCN16961	VCN16961.3439	NC_002506	656909..657364	+	456	VCA0711	Methylglyoxal synthase (EC 4.2.3.3)	CBSS-83333.1.peg.946	Central carbohydrate met	Carbohydr	656909	657364	ref000002	
3502	VCN16961	VCN16961.3440	NC_002506	658053..657433	-	621	VCA0712	Nicotinamidase (EC 3.5.1.19)	NAD and NADP cofactor biosynthesis	NAD and NADP	Cofactors,	657433	658053	ref000002	
3504	VCN16961	VCN16961.3442	NC_002506	658358..658714	+	357	VCA0714	Diacylglycerol kinase (EC 2.7.1.107)	Glycerolipid and Glycerophospholipid	Phospholipids	Fatty Acids	658358	658714	ref000002	
3507	VCN16961	VCN16961.4303	NC_002506	661819..659756	-	2064	VCA0717	DNA helicase IV	CBSS-83333.1.peg.946	DNA repair	DNA Metal	659756	661819	ref000002	
3508	VCN16961	VCN16961.3446	NC_002506	662006..664183	+	2178	VCA0718	membrane protein				662006	664183	ref000002	
3509	VCN16961	VCN16961.3447	NC_002506	665140..664193	-	948	VCA0719	Sensor histidine kinase				664193	665140	ref000002	
3510	VCN16961	VCN16961.3448	NC_002506	665712..665137	-	576	VCA0720	guanylate cyclase-related protein				665137	665712	ref000002	

3513	VCN16961	VCN16961.4057	NC_002506	666585..667838	+	1254	VCA0723	Hydroxymethylglutaryl-CoA reductase (EC 1.1.	Isoprenoid Biosynthesis	Isoprenoids	Cofactors,	666585	667838	ref000002
3514	VCN16961	VCN16961.3452	NC_002506	669037..667937	-	1101	VCA0724	Molybdenum transport ATP-binding protein mo	ABC transporter tungstate (TC 3.A.1.6	ABC transporters	Membrane	667937	669037	ref000002
3515	VCN16961	VCN16961.3964	NC_002506	669746..669051	-	696	VCA0725	Molybdenum transport system permease prote	ABC transporter tungstate (TC 3.A.1.6	ABC transporters	Membrane	669051	669746	ref000002
3516	VCN16961	VCN16961.3454	NC_002506	670514..669750	-	765	VCA0726	Molybdenum ABC transporter, periplasmic mol	ABC transporter tungstate (TC 3.A.1.6	ABC transporters	Membrane	669750	670514	ref000002
3526	VCN16961	VCN16961.3464	NC_002506	683045..680472	-	2574	VCA0736	Autoinducer 2 sensor kinase/phosphatase luxQ	Autoinducer 2 (AI-2) transport and processing (lsrACDBFGE operon)			680472	683045	ref000002
3527	VCN16961	VCN16961.3465	NC_002506	684157..683063	-	1095	VCA0737	Autoinducer 2-binding periplasmic protein luxP	Autoinducer 2 (AI-2) transport and processing (lsrACDBFGE operon)			683063	684157	ref000002
3534	VCN16961	VCN16961.3472	NC_002506	689611..688094	-	1518	VCA0744	Glycerol kinase (EC 2.7.1.30)	Glycerolipid and Glycerophospholipid	Phospholipids	Fatty Acids	688094	689611	ref000002
3537	VCN16961	VCN16961.3474	NC_002506	691251..692894	+	1644	VCA0747	Anaerobic glycerol-3-phosphate dehydrogenas	Respiratory dehydrogenases 1	Electron donating reactior	Respiratior	691251	692894	ref000002
3538	VCN16961	VCN16961.3475	NC_002506	692891..694201	+	1311	VCA0748	Anaerobic glycerol-3-phosphate dehydrogenas	Respiratory dehydrogenases 1	Electron donating reactior	Respiratior	692891	694201	ref000002
3539	VCN16961	VCN16961.3476	NC_002506	694198..695439	+	1242	VCA0749	Anaerobic glycerol-3-phosphate dehydrogenas	Respiratory dehydrogenases 1	Electron donating reactior	Respiratior	694198	695439	ref000002
3541	VCN16961	VCN16961.4118	NC_002506	696669..695581	-	1089	VCA0751	3-oxoacyl-[acyl-carrier-protein] synthase III	protein 2 (EC 2.3.1.41)			695581	696669	ref000002
3542	VCN16961	VCN16961.3479	NC_002506	696838..697272	+	435	VCA0752	Thioredoxin 2 (EC 1.8.1.8)				696838	697272	ref000002
3544	VCN16961	VCN16961.3963	NC_002506	698742..699530	+	789	VCA0754	Lipase-related protein				698742	699530	ref000002
3548	VCN16961	VCN16961.3485	NC_002506	702952..702263	-	690	VCA0758	Arginine ABC transporter, permease protein Ar	Arginine and Ornithine Degradation	Arginine; urea cycle, poly	Amino Acic	702263	702952	ref000002
3549	VCN16961	VCN16961.3486	NC_002506	703685..702954	-	732	VCA0759	Arginine ABC transporter, periplasmic arginine-	Arginine and Ornithine Degradation	Arginine; urea cycle, poly	Amino Acic	702954	703685	ref000002
3550	VCN16961	VCN16961.3487	NC_002506	704502..703759	-	744	VCA0760	Arginine ABC transporter, ATP-binding protein	Arginine and Ornithine Degradation	Arginine; urea cycle, poly	Amino Acic	703759	704502	ref000002
3554	VCN16961	VCN16961.4071	NC_002506	708544..709059	+	516	VCA0764	ADP-ribose pyrophosphatase (EC 3.6.1.13)	NAD and NADP cofactor biosynthesis	NAD and NADP	Cofactors,	708544	709059	ref000002
3555	VCN16961	VCN16961.4024	NC_002506	709068..710075	+	1008	VCA0765	Low-specificity L-threonine aldolase (EC 4.1.2.	Glycine Biosynthesis	Lysine, threonine, methio	Amino Acic	709068	710075	ref000002
3556	VCN16961	VCN16961.3493	NC_002506	710072..710512	+	441	VCA0766	Cytochrome c553	Soluble cytochromes and functionally	Respiration - no subcateg	Respiratior	710072	710512	ref000002
3557	VCN16961	VCN16961.3494	NC_002506	710616..711350	+	735	VCA0767	Transcriptional regulator				710616	711350	ref000002
3558	VCN16961	VCN16961.3495	NC_002506	712718..711450	-	1269	VCA0768	ATP-dependent RNA helicase VCA0768	ATP-dependent RNA helicases, bacte	RNA processing and mod	RNA Metal	711450	712718	ref000002
3562	VCN16961	VCN16961.3499	NC_002506	713856..715058	+	1203	VCA0772	Tyrosine-specific transport protein	ZZ gjo need homes	Miscellaneous - no subca	Miscellane	713856	715058	ref000002
3563	VCN16961	VCN16961.3500	NC_002506	715286..716707	+	1422	VCA0773	Methyl-accepting chemotaxis protein				715286	716707	ref000002
3564	VCN16961	VCN16961.3501	NC_002506	717809..716793	-	1017	VCA0774	UDP-glucose 4-epimerase (EC 5.1.3.2)	CBSS-296591.1.peg.2330	Di- and oligosaccharides	Carbohydr	716793	717809	ref000002
3566	VCN16961	VCN16961.4134	NC_002506	718162..718869	+	708	VCA0776	Lactam utilization protein LAMB	CBSS-412883.3.peg.390			718162	718869	ref000002
3567	VCN16961	VCN16961.3504	NC_002506	718873..719583	+	711	VCA0777	Allophanate hydrolase subunit 1 (EC 3.5.1.54)	CBSS-412883.3.peg.390			718873	719583	ref000002
3568	VCN16961	VCN16961.3505	NC_002506	719693..720622	+	930	VCA0778	Allophanate hydrolase subunit 2 (EC 3.5.1.54)	CBSS-412883.3.peg.390			719693	720622	ref000002
3574	VCN16961	VCN16961.3511	NC_002506	727580..728788	+	1209	VCA0784	Uncharacterized paraquat-inducible protein B				727580	728788	ref000002
3578	VCN16961	VCN16961.3515	NC_002506	733402..732773	-	630	VCA0788	DnaJ-related protein				732773	733402	ref000002
3588	VCN16961	VCN16961.3525	NC_002506	740343..739663	-	681	VCA0798	Putative phosphatase YieH	2-phosphoglycolate salvage	DNA repair	DNA Metal	739663	740343	ref000002
3590	VCN16961	VCN16961.3527	NC_002506	741310..741792	+	483	VCA0800	Conserved uncharacterized protein CreA	Tolerance to colicin E2			741310	741792	ref000002
3593	VCN16961	VCN16961.3530	NC_002506	746347..745355	-	993	VCA0803	Secreted trypsin-like serine protease				745355	746347	ref000002
3594	VCN16961	VCN16961.4200	NC_002506	748422..746491	-	1932	VCA0804	Cold-shock DEAD-box protein A	ATP-dependent RNA helicases, bacte	RNA processing and mod	RNA Metal	746491	748422	ref000002
3595	VCN16961	VCN16961.3532	NC_002506	748796..750832	+	2037	VCA0805	Exoribonuclease II (EC 3.1.13.1)	RNA processing and degradation, bac	RNA processing and mod	RNA Metal	748796	750832	ref000002
3601	VCN16961	VCN16961.3538	NC_002506	755480..756937	+	1458	VCA0811	Chitin binding protein	Chitin and N-acetylglucosamine utiliza	Aminosugars	Carbohydr	755480	756937	ref000002
3605	VCN16961	VCN16961.3542	NC_002506	763338..761353	-	1986	VCA0815	Biosynthetic arginine decarboxylase (EC 4.1.1.	Acid resistance mechanisms	Arginine; urea cycle, poly	Amino Acic	761353	763338	ref000002
3617	VCN16961	VCN16961.3554	NC_002506	772764..772435	-	330	VCA0827	Pterin-4-alpha-carbinolamine dehydratase (EC	Pterin metabolism 3			772435	772764	ref000002
3618	VCN16961	VCN16961.3961	NC_002506	773548..772754	-	795	VCA0828	Phenylalanine-4-hydroxylase (EC 1.14.16.1)	Pterin metabolism 3			772754	773548	ref000002
3623	VCN16961	VCN16961.3560	NC_002506	778082..778960	+	879	VCA0833	Transcriptional regulator				778082	778960	ref000002
3624	VCN16961	VCN16961.3561	NC_002506	779097..780050	+	954	VCA0834	Cobalt-zinc-cadmium resistance protein	Cobalt-zinc-cadmium resistance	Potassium metabolism - r	Potassium	779097	780050	ref000002
3625	VCN16961	VCN16961.3562	NC_002506	781068..780082	-	987	VCA0835	Permease of the drug/metabolite transporter (D	Cobalt-zinc-cadmium resistance	RNA processing and mod	RNA Metal	780082	781068	ref000002
3627	VCN16961	VCN16961.4099	NC_002506	783072..781822	-	1251	VCA0837	Putative hemolysin				781822	783072	ref000002
3628	VCN16961	VCN16961.3565	NC_002506	783694..783290	-	405	VCA0838	OsmC/Ohr family protein	Glutathione-regulated potassium-efflu	Potassium metabolism - r	Potassium	783290	783694	ref000002
3630	VCN16961	VCN16961.3567	NC_002506	784587..785072	+	486	VCA0840	Deoxycytidylate deaminase (EC 3.5.4.12)				784587	785072	ref000002
3633	VCN16961	VCN16961.4367	NC_002506	785821..787257	+	1437	VCA0843	NADPH-dependent glyceraldehyde-3-phospha	Embden-Meyerhof and Gluconeogene	Oxidative stress	Stress Res	785821	787257	ref000002
3636	VCN16961	VCN16961.3573	NC_002506	788445..787831	-	615	VCA0846	Putative threonine efflux protein				787831	788445	ref000002
3638	VCN16961	VCN16961.3575	NC_002506	790898..789918	-	981	VCA0848	GGDEF family protein				789918	790898	ref000002
3649	VCN16961	VCN16961.3586	NC_002506	808977..808054	-	924	VCA0859	Oxidoreductase, aldo/keto reductase 2 family				808054	808977	ref000002
3650	VCN16961	VCN16961.3587	NC_002506	809269..811341	+	2073	VCA0860	Periplasmic alpha-amylase (EC 3.2.1.1)	Maltose and Maltodextrin Utilization	Di- and oligosaccharides	Carbohydr	809269	811341	ref000002
3652	VCN16961	VCN16961.3589	NC_002506	811876..813114	+	1239	VCA0862	Long-chain fatty acid transport protein	Fatty acid degradation regulons			811876	813114	ref000002
3653	VCN16961	VCN16961.3590	NC_002506	813130..815520	+	2391	VCA0863	putative lipase				813130	815520	ref000002
3654	VCN16961	VCN16961.3591	NC_002506	815881..817278	+	1398	VCA0864	methyl-accepting chemotaxis protein				815881	817278	ref000002
3655	VCN16961	VCN16961.3592	NC_002506	819188..817359	-	1830	VCA0865	Neutral protease precursor (EC 3.4.24.25)				817359	819188	ref000002
3657	VCN16961	VCN16961.3594	NC_002506	820262..819609	-	654	VCA0867	Outer membrane protein W precursor	Major Outer Membrane Proteins			819609	820262	ref000002
3660	VCN16961	VCN16961.3597	NC_002506	821216..822166	+	951	VCA0870	Murein-DD-endopeptidase (EC 3.4.99.-)	Peptidoglycan Biosynthesis			821216	822166	ref000002
3665	VCN16961	VCN16961.3602	NC_002506	829259..827934	-	1326	VCA0875	D-serine dehydratase (EC 4.3.1.18)	Pyruvate Alanine Serine Interconversi	Alanine, serine, and glycir	Amino Acic	827934	829259	ref000002
3666	VCN16961	VCN16961.3603	NC_002506	829467..830411	+	945	VCA0876	D-serine dehydratase transcriptional activator	CBSS-292415.3.peg.2341	Alanine, serine, and glycir	Amino Acic	829467	830411	ref000002
3675	VCN16961	VCN16961.3612	NC_002506	838923..837892	-	1032	VCA0885	L-threonine 3-dehydrogenase (EC 1.1.1.103)	Glycine Biosynthesis	Lysine, threonine, methio	Amino Acic	837892	838923	ref000002
3676	VCN16961	VCN16961.3613	NC_002506	840119..838926	-	1194	VCA0886	2-amino-3-ketobutyrate coenzyme A ligase (EC	Glycine Biosynthesis	Lysine, threonine, methio	Amino Acic	838926	840119	ref000002
3679	VCN16961	VCN16961.3615	NC_002506	842137..843075	+	939	VCA0889	Transcriptional regulator				842137	843075	ref000002
3680	VCN16961	VCN16961.3616	NC_002506	843069..843452	+	384	VCA0890	Glyoxylase family protein	Methylglyoxal Metabolism	Central carbohydrate met	Carbohydr	843069	843452	ref000002
3681	VCN16961	VCN16961.3617	NC_002506	844942..843530	-	1413	VCA0891	Uncharacterized iron-regulated membrane prot	Transport of Iron			843530	844942	ref000002
3683	VCN16961	VCN16961.3619	NC_002506	846067..845558	-	510	VCA0893	Soluble cytochrome b562	Soluble cytochromes and functionally	Respiration - no subcateg	Respiratior	845558	846067	ref000002
3684	VCN16961	VCN16961.3620	NC_002506	846764..846018	-	747	VCA0894	putative histidinol phosphatase and related hydrolases of the PHP family				846018	846764	ref000002
3685	VCN16961	VCN16961.3621	NC_002506	846932..849877	+	2946	VCA0895	Chemotactic transducer-related protein				846932	849877	ref000002
3686	VCN16961	VCN16961.3622	NC_002506	850221..851726	+	1506	VCA0896	Glucose-6-phosphate 1-dehydrogenase (EC 1.	Fermentations: Lactate	Central carbohydrate met	Carbohydr	850221	851726	ref000002
3687	VCN16961	VCN16961.3623	NC_002506	851723..852439	+	717	VCA0897	6-phosphogluconolactonase (EC 3.1.1.31), euk	Entner-Doudoroff Pathway	Central carbohydrate met	Carbohydr	851723	852439	ref000002
3688	VCN16961	VCN16961.3624	NC_002506	852453..853901	+	1449	VCA0898	6-phosphogluconate dehydrogenase, decarbox	D-gluconate and ketogluconates meta	Central carbohydrate met	Carbohydr	852453	853901	ref000002
3691	VCN16961	VCN16961.3627	NC_002506	855370..855999	+	630	VCA0901	Thioredoxin-like protein clustered with PA0057	PA0057 cluster			855370	855999	ref000002
3693	VCN16961	VCN16961.3629	NC_002506	858137..857004	-	1134	VCA0903	Glycerate kinase (EC 2.7.1.31)	Serine-glyoxylate cycle	Nitrogen Metabolism - no	Nitrogen M	857004	858137	ref000002
3696	VCN16961	VCN16961.3632	NC_002506	862683..860947	-	1737	VCA0906	Methyl-accepting chemotaxis protein				860947	862683	ref000002
3698	VCN16961	VCN16961.4354	NC_002506	864043..863540	-	504	VCA0908	Putative heme iron utilization protein # hutX	Iron acquisition in Vibrio	Iron Scavenging Mechani	Virulence	863540	864043	ref000002
3699	VCN16961	VCN16961.3635	NC_002506	865434..864067	-	1368	VCA0909	Similar to coproporphyrinogen III oxidase, oxyg	CBSS-630.2.peg.3360	Tetrapyrroles	Cofactors,	864067	865434	ref000002
3700	VCN16961	VCN16961.3636	NC_002506	865691..866440	+	750	VCA0910	Ferric siderophore transport system, periplasm	Ton and Tol transport systems	Iron Scavenging Mechani	Virulence	865691	866440	ref000002
3701	VCN16961	VCN16961.3637	NC_002506	866440..867126	+	687	VCA0911	Ferric siderophore transport system, biopolyme	Ton and Tol transport systems	Iron Scavenging Mechani	Virulence	866440	867126	ref000002

3703	VCN16961	VCN16961.3639	NC_002506	867550..868383	+	834	VCA0913	Periplasmic hemin-binding protein	Hemin transport system	Iron Scavenging Mechani	Virulence	867550	868383	ref000002	
3704	VCN16961	VCN16961.3640	NC_002506	868395..869426	+	1032	VCA0914	Hemin ABC transporter, permease protein	Iron acquisition in Vibrio	Iron Scavenging Mechani	Virulence	868395	869426	ref000002	
3713	VCN16961	VCN16961.3649	NC_002506	874442..876400	+	1959	VCA0923	Methyl-accepting chemotaxis protein				874442	876400	ref000002	
3714	VCN16961	VCN16961.4202	NC_002506	878280..876463	-	1818	VCA0924	Flavodoxin reductases (ferredoxin-NADPH red	Anaerobic respiratory reductases	Electron accepting reactic	Respiratior	876463	878280	ref000002	
3715	VCN16961	VCN16961.4175	NC_002506	878843..879871	+	1029	VCA0925	Dihydroorotase (EC 3.5.2.3)	Allantoin degradation	Nucleosides and Nucleoti	Nucleoside	878843	879871	ref000002	
3719	VCN16961	VCN16961.3655	NC_002506	883175..882048	-	1128	VCA0929	RNA methyltransferase, TrmA family	rRNA methylation in clusters			882048	883175	ref000002	
3723	VCN16961	VCN16961.3659	NC_002506	886068..886280	+	213	VCA0933	cold shock domain family protein		Cold shock	Stress Res	886068	886280	ref000002	
3727	VCN16961	VCN16961.3663	NC_002506	889136..888345	-	792	VCA0937	Transcriptional regulator, AraC/XylS family				888345	889136	ref000002	
3729	VCN16961	VCN16961.3664	NC_002506	890253..891218	+	966	VCA0939	sensory box/GGDEF family protein				890253	891218	ref000002	
3730	VCN16961	VCN16961.3665	NC_002506	891370..892131	+	762	VCA0940	Glycerol-3-phosphate regulon repressor, DeoR	Glycerol and Glycerol-3-phosphate Up	Sugar alcohols	Carbohydr	891370	892131	ref000002	
3731	VCN16961	VCN16961.3666	NC_002506	892283..892771	+	489	VCA0941	Acyl-CoA hydrolase (EC 3.1.2.20)				892283	892771	ref000002	
3733	VCN16961	VCN16961.3668	NC_002506	894347..893457	-	891	VCA0943	Maltose/maltodextrin ABC transporter, permea	Maltose and Maltodextrin Utilization	Di- and oligosaccharides	Carbohydr	893457	894347	ref000002	
3735	VCN16961	VCN16961.3670	NC_002506	897228..896008	-	1221	VCA0945	Maltose/maltodextrin ABC transporter, substrat	Maltose and Maltodextrin Utilization	Motility and Chemotaxis -	Motility and	896008	897228	ref000002	
3736	VCN16961	VCN16961.3671	NC_002506	897862..898983	+	1122	VCA0946	Maltose/maltodextrin transport ATP-binding prc	Maltose and Maltodextrin Utilization	Di- and oligosaccharides	Carbohydr	897862	898983	ref000002	
3737	VCN16961	VCN16961.3672	NC_002506	899206..899727	+	522	VCA0947	Spermidine N1-acetyltransferase (EC 2.3.1.57)	Polyamine Metabolism	Arginine; urea cycle, poly	Amino Acic	899206	899727	ref000002	
3739	VCN16961	VCN16961.4079	NC_002506	900723..900115	-	609	VCA0949	SM-20-related protein				900115	900723	ref000002	
3742	VCN16961	VCN16961.3677	NC_002506	902100..901426	-	675	VCA0952	Transcriptional regulator VpsT	Vibrio Polysaccharide (VPS) Biosynth	Regulation of virulence	Virulence	901426	902100	ref000002	
3743	VCN16961	VCN16961.3678	NC_002506	902956..902678	-	279	VCA0953	Peptidyl-prolyl cis-trans isomerase ppiC (EC 5.	Peptidyl-prolyl cis-trans isomerase	Protein folding	Protein Me	902678	902956	ref000002	
3744	VCN16961	VCN16961.3679	NC_002506	903131..904051	+	921	VCA0954	Chemotaxis protein CheV (EC 2.7.3.-)	Bacterial Chemotaxis	Motility and Chemotaxis -	Motility and	903131	904051	ref000002	
3746	VCN16961	VCN16961.4336	NC_002506	904823..905839	+	1017	VCA0956	GGDEF family protein				904823	905839	ref000002	
3747	VCN16961	VCN16961.3682	NC_002506	906566..905958	-	609	VCA0957	Malate synthase-related protein	Serine-glyoxylate cycle	One-carbon Metabolism	Carbohydr	905958	906566	ref000002	
3748	VCN16961	VCN16961.3683	NC_002506	906685..908202	+	1518	VCA0958	Predicted transcriptional regulator				906685	908202	ref000002	
3753	VCN16961	VCN16961.3688	NC_002506	913248..912325	-	924	VCA0963	Permease of the drug/metabolite transporter (D	Cobalt-zinc-cadmium resistance	RNA processing and mod	RNA Metal	912325	913248	ref000002	
3754	VCN16961	VCN16961.3689	NC_002506	913349..914254	+	906	VCA0964	Transcriptional regulator, LysR family				913349	914254	ref000002	
3755	VCN16961	VCN16961.3690	NC_002506	914406..915596	+	1191	VCA0965	GGDEF family protein				914406	915596	ref000002	
3759	VCN16961	VCN16961.3694	NC_002506	916070..916918	+	849	VCA0969	Pirin-related protein				916070	916918	ref000002	
3760	VCN16961	VCN16961.4122	NC_002506	917343..917056	-	288	VCA0970	Uncharacterized protein conserved in bacteria				917056	917343	ref000002	
3762	VCN16961	VCN16961.4164	NC_002506	919479..918331	-	1149	VCA0972	Permease of the major facilitator superfamily				918331	919479	ref000002	
3764	VCN16961	VCN16961.4045	NC_002506	921526..919898	-	1629	VCA0974	Methyl-accepting chemotaxis protein				919898	921526	ref000002	
3772	VCN16961	VCN16961.3707	NC_002506	930897..929998	-	900	VCA0982	Predicted Lactate-responsive regulator, LysR fa	Lactate utilization	Organic acids	Carbohydr	929998	930897	ref000002	
3773	VCN16961	VCN16961.4110	NC_002506	931103..932797	+	1695	VCA0983	L-lactate permease	Lactate utilization	Organic acids	Carbohydr	931103	932797	ref000002	
3774	VCN16961	VCN16961.3709	NC_002506	932920..934056	+	1137	VCA0984	L-lactate dehydrogenase (EC 1.1.2.3)	Lactate utilization	Electron donating reactior	Respiratior	932920	934056	ref000002	
3777	VCN16961	VCN16961.4047	NC_002506	938106..940496	+	2391	VCA0987	Phosphoenolpyruvate synthase (EC 2.7.9.2)	Pyruvate metabolism I: anaplerotic rea	Central carbohydrate met	Carbohydr	938106	940496	ref000002	
3778	VCN16961	VCN16961.3713	NC_002506	940679..942235	+	1557	VCA0988	Aerotaxis sensor receptor protein	Bacterial Chemotaxis	Motility and Chemotaxis -	Motility and	940679	942235	ref000002	
3779	VCN16961	VCN16961.3714	NC_002506	942593..943927	+	1335	VCA0989	Na+-driven multidrug efflux pump				942593	943927	ref000002	
3780	VCN16961	VCN16961.4113	NC_002506	945226..944006	-	1221	VCA0990	ATP-dependent RNA helicase VCA0990	ATP-dependent RNA helicases, bacte	RNA processing and mod	RNA Metal	944006	945226	ref000002	
3786	VCN16961	VCN16961.3721	NC_002506	949658..951517	+	1860	VCA0996	ABC transporter, ATP-binding protein				949658	951517	ref000002	
3789	VCN16961	VCN16961.3724	NC_002506	953656..954231	+	576	VCA0999	transcriptional regulator, TetR family				953656	954231	ref000002	
3791	VCN16961	VCN16961.4035	NC_002506	955136..955966	+	831	VCA1001	AraC-type DNA-binding domain-containing protein				955136	955966	ref000002	
3792	VCN16961	VCN16961.3727	NC_002506	956118..956837	+	720	VCA1002	AzlC family protein				956118	956837	ref000002	
3795	VCN16961	VCN16961.3730	NC_002506	958391..957933	-	459	VCA1005	Organic hydroperoxide resistance transcription	CBSS-269482.1.peg.1294	Oxidative stress	Stress Res	957933	958391	ref000002	
3796	VCN16961	VCN16961.4250	NC_002506	958503..958925	+	423	VCA1006	Organic hydroperoxide resistance protein	CBSS-269482.1.peg.1294	Oxidative stress	Stress Res	958503	958925	ref000002	
3798	VCN16961	VCN16961.3733	NC_002506	959181..960176	+	996	VCA1008	Putative outer membrane protein				959181	960176	ref000002	
3801	VCN16961	VCN16961.4357	NC_002506	961281..961898	+	618	VCA1011	Glutaredoxin	Glutaredoxins	Regulation and Cell signa	Regulation	961281	961898	ref000002	
3805	VCN16961	VCN16961.3740	NC_002506	963699..965132	+	1434	VCA1015	Na+/H+ antiporter NhaD type	Na(+) H(+) antiporter	Uni- Sym- and Antiporters	Membrane	963699	965132	ref000002	
3808	VCN16961	VCN16961.3743	NC_002506	967442..966084	-	1359	VCA1018	3-methyladenine DNA glycosylase				966084	967442	ref000002	
3809	VCN16961	VCN16961.3744	NC_002506	967698..968144	+	447	VCA1019	Membrane protein, distant similarity to thiosulpl	Experimental tye			967698	968144	ref000002	
3810	VCN16961	VCN16961.4214	NC_002506	969105..968221	-	885	VCA1020	Transcriptional regulator, LysR family				968221	969105	ref000002	
3811	VCN16961	VCN16961.3746	NC_002506	969256..969615	+	360	VCA1021	Uncharacterized protein conserved in bacteria				969256	969615	ref000002	
3815	VCN16961	VCN16961.3750	NC_002506	972427..973227	+	801	VCA1025	Glucosamine-6-phosphate deaminase (EC 3.5.	Sialic Acid Metabolism	Capsular and extracellula	Cell Wall a	972427	973227	ref000002	
3817	VCN16961	VCN16961.3752	NC_002506	975504..974668	-	837	VCA1027	Maltose operon periplasmic protein MalM	Maltose and Maltodextrin Utilization	Di- and oligosaccharides	Carbohydr	974668	975504	ref000002	
3818	VCN16961	VCN16961.3753	NC_002506	976959..975709	-	1251	VCA1028	Maltoporin (maltose/maltodextrin high-affinity re	Maltose and Maltodextrin Utilization	Di- and oligosaccharides	Carbohydr	975709	976959	ref000002	
3819	VCN16961	VCN16961.3754	NC_002506	977379..979349	+	1971	VCA1029	Glycogen debranching enzyme (EC 3.2.1.-)	Glycogen metabolism	Central carbohydrate met	Carbohydr	977379	979349	ref000002	
3824	VCN16961	VCN16961.3757	NC_002506	983993..982617	-	1377	VCA1033	N-Acetyl-D-glucosamine ABC transport system	Chitin and N-acetylglucosamine utiliza	Aminosugars	Carbohydr	982617	983993	ref000002	
3825	VCN16961	VCN16961.4278	NC_002506	985981..984002	-	1980	VCA1034	N-acetylglucosamine regulated methyl-acceptir	Chitin and N-acetylglucosamine utiliza	Aminosugars	Carbohydr	984002	985981	ref000002	
3828	VCN16961	VCN16961.3760	NC_002506	987883..988602	+	720	VCA1037	Amino acid ABC transporter, ATP-binding protein				987883	988602	ref000002	
3829	VCN16961	VCN16961.3761	NC_002506	988599..989399	+	801	VCA1038	Amino acid ABC transporter, permease protein				988599	989399	ref000002	
3830	VCN16961	VCN16961.3762	NC_002506	989435..990271	+	837	VCA1039	Amino acid ABC transporter, periplasmic amino acid-binding protein				989435	990271	ref000002	
3831	VCN16961	VCN16961.3763	NC_002506	990272..991168	+	897	VCA1040	Amino acid ABC transporter, permease protein				990272	991168	ref000002	
3832	VCN16961	VCN16961.3764	NC_002506	991281..992984	+	1704	VCA1041	Phosphosugar mutase of unknown sugar (see annotation)				991281	992984	ref000002	
3839	VCN16961	VCN16961.3771	NC_002506	998829..999764	+	936	VCA1048	Oxidoreductase, Gfo/Idh/MocA family				998829	999764	ref000002	
3848	VCN16961	VCN16961.3780	NC_002506	1008855..1008136	-	720	VCA1057	Oxidoreductase, short-chain dehydrogenase/reductase family				1008136	1008855	ref000002	
3849	VCN16961	VCN16961.3781	NC_002506	1009003..1009908	+	906	VCA1058	Transcriptional regulator				1009003	1009908	ref000002	
3851	VCN16961	VCN16961.3783	NC_002506	1011340..1010684	-	657	VCA1060	3,4-dihydroxy-2-butanone 4-phosphate synthas	Riboflavin, FMN and FAD metabolism	Riboflavin, FMN, FAD	Cofactors,	1010684	1011340	ref000002	
3853	VCN16961	VCN16961.3785	NC_002506	1013118..1011799	-	1320	VCA1062	Putrescine/proton symporter, putrescine/ornithi	Polyamine Metabolism	Arginine; urea cycle, poly	Amino Acic	1011799	1013118	ref000002	
3854	VCN16961	VCN16961.3786	NC_002506	1015348..1013186	-	2163	VCA1063	Ornithine decarboxylase (EC 4.1.1.17)	Polyamine Metabolism	Arginine; urea cycle, poly	Amino Acic	1013186	1015348	ref000002	
3859	VCN16961	VCN16961.3791	NC_002506	1018428..1017946	-	483	VCA1068	PutR, transcriptional activator of PutA and PutP	Proline, 4-hydroxyproline uptake and u	Proline and 4-hydroxyprol	Amino Acic	1017946	1018428	ref000002	
3860	VCN16961	VCN16961.3792	NC_002506	1020545..1018626	-	1920	VCA1069	Methyl-accepting chemotaxis protein				1018626	1020545	ref000002	
3862	VCN16961	VCN16961.3794	NC_002506	1022770..1021280	-	1491	VCA1071	Proline/sodium symporter PutP (TC 2.A.21.2.1)	Proline, 4-hydroxyproline uptake and u	Proline and 4-hydroxyprol	Amino Acic	1021280	1022770	ref000002	
3865	VCN16961	VCN16961.4402	NC_002506	1027852..1027022	-	831	VCA1074	Transcriptional regulator, AraC/XylS family				1027022	1027852	ref000002	
3866	VCN16961	VCN16961.3957	NC_002506	1028277..1029383	+	1107	VCA1075	Chromosome segregation ATPase				1028277	1029383	ref000002	
3869	VCN16961	VCN16961.4410	NC_002506	1031679..1032419	+	741	VCA1078	Transcriptional regulator, LuxR family				1031679	1032419	ref000002	
3870	VCN16961	VCN16961.3801	NC_002506	1033083..1032448	-	636	VCA1079	Pyridoxamine 5'-phosphate oxidase (EC 1.4.3.5	Pyridoxin (Vitamin B6) Biosynthesis	Pyridoxine	Cofactors,	1032448	1033083	ref000002	
3872	VCN16961	VCN16961.3803	NC_002506	1034707..1035369	+	663	VCA1081	Predicted periplasmic protein	CBSS-323850.3.peg.3284			1034707	1035369	ref000002	
3875	VCN16961	VCN16961.3806	NC_002506	1037299..1039413	+	2115	VCA1084	ABC transporter, transmembrane region:ABC t	CBSS-323850.3.peg.3284			1037299	1039413	ref000002	

3877	VCN16961	VCN16961.3808	NC_002506	1043183..1041477	-	1707	VCA1086	Che cluster related two-component response regulator					1041477	1043183	ref000002
3879	VCN16961	VCN16961.3810	NC_002506	1044670..1043516	-	1155	VCA1088	Methyl-accepting chemotaxis protein					1043516	1044670	ref000002
3881	VCN16961	VCN16961.3867	NC_002506	1045752..1044994	-	759	VCA1089b	Chemotaxis response regulator protein-glutam	Bacterial Chemotaxis	Motility and Chemotaxis -	Motility and		1044994	1045752	ref000002
3882	VCN16961	VCN16961.3811	NC_002506	1046450..1045749	-	702	VCA1090	Chemotaxis protein CheD	Bacterial Chemotaxis	Motility and Chemotaxis -	Motility and		1045749	1046450	ref000002
3883	VCN16961	VCN16961.3812	NC_002506	1047219..1046389	-	831	VCA1091	Chemotaxis protein methyltransferase CheR (E	Bacterial Chemotaxis	Motility and Chemotaxis -	Motility and		1046389	1047219	ref000002
3884	VCN16961	VCN16961.3813	NC_002506	1049270..1047234	-	2037	VCA1092	Methyl-accepting chemotaxis protein III (mcp-III) (ribose and galactose chemoreceptor protein)					1047234	1049270	ref000002
3885	VCN16961	VCN16961.3814	NC_002506	1049745..1049284	-	462	VCA1093	Positive regulator of CheA protein activity (Che	Two-component regulatory systems in	Regulation and Cell signa	Regulation		1049284	1049745	ref000002
3886	VCN16961	VCN16961.3815	NC_002506	1050269..1049742	-	528	VCA1094	Positive regulator of CheA protein activity (Che	Two-component regulatory systems in	Regulation and Cell signa	Regulation		1049742	1050269	ref000002
3887	VCN16961	VCN16961.3816	NC_002506	1052440..1050278	-	2163	VCA1095	Chemotaxis protein CheA (EC 2.7.3.-)	Bacterial Chemotaxis	Motility and Chemotaxis -	Motility and		1050278	1052440	ref000002
3888	VCN16961	VCN16961.4026	NC_002506	1052848..1052489	-	360	VCA1096	Chemotaxis regulator - transmits chemorecepto	Bacterial Chemotaxis	Motility and Chemotaxis -	Motility and		1052489	1052848	ref000002
3890	VCN16961	VCN16961.3819	NC_002506	1053362..1054927	+	1566	VCA1098	Oligopeptide ABC transporter, periplasmic olig	ABC transporter oligopeptide (TC 3.A.	ABC transporters	Membrane		1053362	1054927	ref000002
3891	VCN16961	VCN16961.3820	NC_002506	1054920..1055876	+	957	VCA1099	ABC transporter, permease protein					1054920	1055876	ref000002
3892	VCN16961	VCN16961.3821	NC_002506	1055857..1056669	+	813	VCA1100	Dipeptide transport system permease protein dppC (TC 3.A.1.5.2)					1055857	1056669	ref000002
3893	VCN16961	VCN16961.3822	NC_002506	1056588..1058048	+	1461	VCA1101	ABC transporter, ATP-binding protein					1056588	1058048	ref000002
3906	VCN16961	VCN16961.3833	NC_002506	1068927..1069958	+	1032	VCA1113	ABC transporter, periplasmic spermidine putres	Polyamine Metabolism	Arginine; urea cycle, poly	Amino Acid		1068927	1069958	ref000002
3907	VCN16961	VCN16961.3834	NC_002506	1070989..1070018	-	972	VCA1114	Chromosome (plasmid) partitioning protein Par	Bacterial Cytoskeleton	Cell cycle in Prokaryota	Cell Divisio		1070018	1070989	ref000002