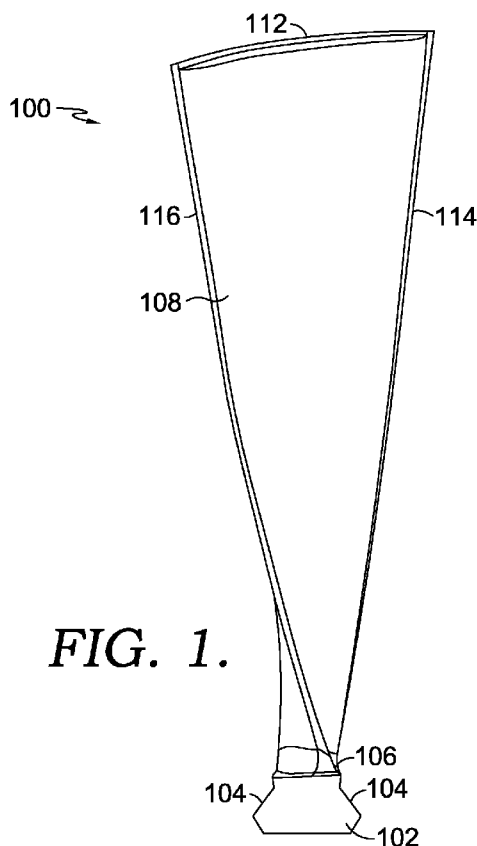




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[Continued on next page]

(54) Title: UNFLARED COMPRESSOR BLADE



(57) Abstract: A compressor component having an airfoil with a profile in accordance with Table 1 is disclosed. The compressor component, such as a compressor blade, has an increased thickness over a portion of the airfoil span in order to increase stiffness. Furthermore, the airfoil has been restacked so as to induce a compressive stress in the blade root/attachment area. The increased stiffness and restacked airfoil combine to improve high-cycle fatigue capability of the compressor component.





HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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UNFLARED COMPRESSOR BLADE

FIELD OF THE INVENTION

The present invention generally relates to a compressor component having an improved airfoil profile and tip geometry, known as a squealer tip, that addresses vibratory issues and high stress experienced in the airfoil leading edge region while also increasing rub tolerance at the tip.

BACKGROUND OF THE INVENTION

Compressor components having an airfoil, such as a compressor blade, are held within a rotating disk or shaft and are designed to rotate at a high rate of speed in order to compress a fluid passing through, such as air. A compressor typically comprises a plurality of stages, or rotating disks of blades, of diminishing diameter that raise the pressure and temperature, of the working fluid at each stage to a pre-determined level at the compressor exit.

Axial compressors having multiple stages are commonly used in gas turbine engines for increasing the pressure and temperature of air to a pre-determined level at which point fuel can be mixed with the air and the mixture ignited. The hot combustion gases then pass through a turbine to provide either a propulsive output or mechanical output.

Compressor components, such as blades and vanes, are located near an inlet of the engine, and as such, are exposed to impact by foreign objects, dirt, and other debris, that can lead to erosion of the airfoil, especially along its leading edge, and reduced overall efficiency and higher fuel consumption rates. Often times, for increased power output and engine cleaning, operators of gas turbine engines waterwash the compressor, which as one skilled in the art understands is spraying a stream of demineralized water into the compressor inlet at regular cleaning intervals, such as one a day. Alternatively, operators have also installed inlet fogging of the compressor, which inject small droplets of fog into the inlet through special injection nozzle and high pressure pumps. These enhancements, while increasing the power output, can also increase erosion to the airfoil. Significant erosion of the airfoil leading edge can result in the leading edge being a life-limiting factor for the blade. Furthermore, as a blade rotates, it will have a series of vibratory modes that can cause high stress regions depending on the blade geometry. Where high stress regions coincide with

other life-limiting factors, such as leading edge erosion, fatigue and failure of the blade are known to occur. When a compressor blade fails, at least the airfoil portion travels downstream through the compressor, damaging subsequent stages of compressor blades and vanes, causing damage significant enough to force an engine shutdown and major repair.

SUMMARY OF THE INVENTION

In accordance with the present invention, there is provided a novel and improved airfoil for a compressor component having a redefined airfoil profile including a reduced thickness portion near the blade tip that results in reduced vibratory stress along the leading edge of the airfoil. The location of the airfoil geometry changes are found along the airfoil chord length and span so as to shift the frequency of the blade with minimal impact to blade aerodynamics. The airfoil is restacked so as to reduce the stress imparted to the airfoil leading edge. The addition of the reduced thickness section at the tip, known as a squealer tip, results in a blade more tolerant of rubs with the casing.

In an embodiment of the present invention, a compressor component having an attachment, a first platform, and an airfoil extending radially outward from the first platform is disclosed. The airfoil has an uncoated profile substantially in accordance with Cartesian coordinate values of X, Y, and Z as set forth in Table 1, carried only to three decimal places, where Y is a distance measured radially from the first platform of the attachment to which the airfoil is mounted.

In an alternate embodiment, an airfoil for a compressor blade is disclosed having an uncoated profile substantially in accordance with Cartesian coordinate values of X, Y, and Z as set forth in Table 1, carried only to three decimal places, where Y is a distance measured in inches and the X and Z values are joined by smooth connecting splines to form a plurality of airfoil sections and the sections are joined to form the airfoil profile.

In yet another embodiment, a compressor is disclosed in which the compressor comprises a compressor disk and a plurality of compressor blades extending radially outward from the compressor disk. The compressor blades each have an airfoil with an uncoated nominal profile substantially in accordance with Cartesian coordinate values of X, Y, and Z in Table 1, with the Y coordinate values at perpendicular distances from planes normal to a radius from a platform of the compressor blade.

The enhancements made to the airfoil along its chord length and span is made so as to not have any impact on the throat area between adjacent blades. As such, a majority of the thickness increase is made to the pressure side, or concave side of the airfoil. Although disclosed as an airfoil that is uncoated, it is envisioned that an alternate embodiment of the present invention can include an airfoil that is at least partially coated with an erosion resistant coating, corrosion resistant coating, or a combination thereof. In this case, the coordinates of the airfoil as listed in Table 1 would be prior to a coating being applied to any portion of the airfoil.

Additional advantages and features of the present invention will be set forth in part in a description which follows, and in part will become apparent to those skilled in the art upon examination of the following, or may be learned from practice of the invention. The instant invention will now be described with particular reference to the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWING

The present invention is described in detail below with reference to the attached drawing figures, wherein:

FIG. 1 is a front elevation view of a compressor blade having an airfoil in accordance with an embodiment of the present invention;

FIG. 2 is a side elevation view of the compressor blade of FIG. 1;

FIG. 3 is a top elevation view of the compressor blade of FIG. 1;

FIG. 4 is a perspective view illustrating a plurality of airfoil sections generated by the Cartesian coordinates of Table 1;

FIG. 5 is a perspective view of a comparison between the airfoil generated by airfoil sections of FIG. 4 and a prior art airfoil;

FIG. 6 is a cross section view overlaying a plurality of airfoil sections of the present invention with airfoil sections of the prior art;

FIGS. 7-9 are enlarged views of various cross sections overlaying the airfoil in accordance with an embodiment of the present invention with an airfoil of the prior art; and,

FIG. 10 is a chart depicting a change in airfoil thickness versus percent span of the airfoil.

DETAILED DESCRIPTION OF THE INVENTION

The subject matter of the present invention is described with specificity herein to meet statutory requirements. However, the description itself is not intended to limit the scope of this patent. Rather, the inventors have contemplated that the claimed subject matter might also be embodied in other ways, to include different components, combinations of components, steps, or combinations of steps similar to the ones described in this document, in conjunction with other present or future technologies.

Referring initially to FIGS. 1-3, a compressor blade 100 is shown in accordance with an embodiment of the present invention. The compressor blade 100 comprises an attachment 102, which can also be referred to as a root. The attachment 102 utilizes one or more attachment surfaces 104 that are oriented so as to correspond with a slot in a compressor disk (not depicted) having a matching profile. Such an engagement maintains the blade within the disk, preventing it from moving radially outward due to radial pulling forces associated with the rotation of the compressor disk. For the compressor blade 100, the upper surface of the attachment 102 serves as a platform 106, which aligns with an adjacent surface on an outer diameter of the blade disk to provide a uniform inner wall surface for the incoming air flow to the compressor.

Extending radially outward from the platform 106 is an airfoil 108 having a tip 112. For the compressor blade 100, the airfoil is solid, and fabricated from a material such as a martensitic steel alloy. The airfoil has an uncoated profile substantially in accordance with Cartesian coordinate values of X and Z, for each distance Y, in inches, as set forth in Table 1 below, and carried to three decimal places. The distance Y is measured radially outward from the blade root center plane extending axially through the platform 106. The X and Z coordinates are distances relative to coordinate plane origin established at each of the radial Y heights.

A plurality of airfoil sections 110 are established by applying smooth continuing splines between the X, Z coordinate values in each Y height. Smoothly joining each of the airfoil section 110 together form the profile of the airfoil 108. The airfoil 108 can be fabricated by a variety of manufacturing techniques such as forging, casting, milling, and electro-chemical machining (ECM). As such, the airfoil has a series of manufacturing tolerance for the position, profile, twist, and chord that can cause the airfoil 108 to vary by as much as approximately +/- .012 inches from a nominal state.

The compressor blade 100 is generally fabricated from a steel alloy such as 15-5PH, which is a precipitation-hardened, martensitic stainless steel alloy that is used on parts requiring corrosion resistance and high strength at temperatures up to approximately 600 deg. F. While other alloys could be used, it is preferred that a high-temperature steel alloy be selected because of the operating conditions. Although the compressor blade has been discussed as having an attachment, at least one platform, and an airfoil, it is to be understood that all of these features of the blade are typically fabricated from the same material and are most likely integral with one another.

In addition to manufacturing tolerances affecting the overall size of the airfoil 108, it is also possible to scale the airfoil 108 to a larger or smaller airfoil size. However, in order to maintain the benefits of this airfoil shape and size, in terms of stiffness and stress, as will be discussed further below, it is necessary to scale the airfoil uniformly in X and Z directions, but Y direction may be scaled separately.

As previously discussed, the profile generated by the X, Y, and Z coordinates of Table 1 is an uncoated profile. While an embodiment of the present invention is an uncoated compressor blade 100, it is possible to add a coating to at least a portion of the airfoil 108 in an alternate embodiment. This coating would have a thickness of up to approximately 0.010 inches. Such coatings can be applied to the airfoil to improve resistance to erosion or to increase temperature capability.

Referring to FIG. 3, positioned at the tip of the blade, opposite of the platform, is a squealer tip 113, which includes a recessed portion so as to minimize the amount of metal located at the blade tip 112. By minimizing the amount of metal, compressor blade 100 can be sized radially to have a tighter fit with the surrounding compressor case such that tolerances can be decreased and efficiency of the compressor increase. Should the squealer tip 113 contact the compressor case and begin to rub the case, the blade will not get as hot due to the smaller amount of material at the blade tip 112.

Depending on the blade configuration, it is possible that a second platform can be positioned at the tip 112 of the airfoil 108. A second platform located at the tip 112, is commonly referred to as a shroud and interlocks with a shroud of an adjacent blade. The shrouds provide an outer airpath seal that increases efficiency by preventing air from passing over the blade tip 112 and also serves to reduce the vibration of the airfoils 108. The use of a second platform, or a shroud, is common in airfoils having a relatively long radial length.

A compressor blade is typically fabricated from a relatively low temperature alloy since air temperature of the compressor only reaches upwards of 700 deg. F. One such material for the compressor blade 100 is a martenestic stainless steel alloy. In an alternate embodiment of the invention, a compressor comprises at least one compressor disk (not depicted) having a plurality of compressor blades 100 that extend radially outward from the compressor disk. As one skilled in the art understands, a compressor typically comprises a plurality of alternating stages of rotating and stationary airfoils that raise the pressure and temperature of a fluid passing through. While the compressor blade 100 having the airfoil 108 can operate in a variety of locations within a compressor, depending on the compressor size, one such location that suits this blade, is adjacent an inlet of the compressor.

For compressor blades in this location, a common durability issue exhibited by prior art blades is erosion of the blade leading edge. The leading edge of the blade (see 114 in FIGS. 1 and 2) is the generally radially extending edge at the forward or upstream end of the blade where the concave and convex surfaces of the airfoil come together. This edge first receives the oncoming air flow, and therefore, is also first impacted by anything entering the compressor. Over time, this leading edge can erode away and weaken the airfoil.

As one skilled in the art understands, as a compressor blade is rotated by a compressor disk, and the weight of the blade pulls radially outward on the disk. However, because of blade design issues such as desired compression of the airflow, blade materials, and compressor size, rarely is the only load a truly radial pulling load. For large unshrouded blades there is usually a substantial amount of blade twist from airfoil root to airfoil tip. Due to the blade's pulling load, the airfoil will tend to untwist or try to straighten itself out. The compression of the airflow also creates load on the airfoil that tries to bend the blade where the airfoil attaches to the platform. Blade pull, untwist, and aero loading result in concentrated steady stress that can occur near the blade's airfoil root leading edge and the blade attachment, as seen with blades of prior art. Airfoil unsteady stress can occur due to the vibratory nature of the blade. Specific vibratory shapes for the blade result in stress concentrations on the airfoil. Blade failure can occur when the blade steady and unsteady stress concentrations occur together. If erosion forms at a location of high steady and unsteady stress then the chance of blade failure is increased.

For a compressor blade that is subject to foreign object damage and erosion, the present invention provides an airfoil that increases the airfoil stiffness so as to alter the natural frequency of the blade away from resonant frequency. The airfoil stiffness has been

accomplished by selectively increasing and decreasing the airfoil thickness while maintaining baseline aerodynamic performance. Material has been added to the airfoil from 0% span (adjacent the platform 106) up to approximately 75% span, with material having been removed from this location and radially outward to the tip 112 of the airfoil 108. Adding mass to the lower region of the airfoil 108 has increased the stiffness of the airfoil 108 by making the airfoil 108 less subject to bending. The increase in thickness is generally uniform up to approximately 63% span. The thickness of the leading edge 114 and trailing edge 116 has not been changed. The majority of the thickness has been added along the chord length on the concave, or pressure, side of the airfoil 108.

In order to reduce the stress concentrations found in the attachment of the airfoil and redistribute this stress, the airfoil 108 has been restacked relative to a prior art airfoil. Through restacking the airfoil sections (i.e. altering the tilt or lean of the radial stack of the airfoil sections), a compressive bending stress is imparted at the leading edge and a tensile bending stress on the convex side of the trailing edge at approximately 70% chord (with 0% chord = the airfoil leading edge 114 and 100% chord = the airfoil trailing edge 116). A parabolic bow/lean is applied to the airfoil sections 110 so as to minimize distortion of the airfoil shape, which will minimize bending stresses at the root/attachment. By reducing the stress in the leading edge 114 and applying that stress on the convex side at the trailing edge 116, the stress concentrations have been reduced. Therefore, even if erosion damage occurs to the leading edge 114, the blade 100 has adequate fatigue capability.

The modifications to the prior art airfoil, in terms of thickness and restacking, can be seen in more detail in FIGS. 5-10. FIG. 5 is a perspective view depicting the present invention airfoil 108 with solid lines compared to the prior art airfoil 200, shown in dashed lines. From FIG. 5 it can be seen where the airfoil 108 has an increased thickness. FIG. 6 depicts a plurality of sections taken through the airfoils 108 and 200 of FIG. 5. Through this overlay of sections, it can also be seen how the airfoil thickness has increased and how the airfoil sections have been restacked to alter the bending stresses. FIGS. 7-9 are enlargements of specific sections depicted in FIG. 6, with FIG. 7 taken at a radial height of approximately $Y=1.1$, FIG. 8 taken at a radial height of approximately $Y=7.7$, and FIG. 9 taken at a radial height of approximately $Y=16.1$.

Referring now to FIG. 10, another way to look at how the thickness of the airfoil 108 is changed for stiffening purposes is depicted. This chart shows a view of relative airfoil thickness (in inches) versus percent span. The solid line depicts the thickness increase

or decrease over percent span for the airfoil 108 of the present invention. For this embodiment, the thickness of the airfoil is increased until approximately 60% span and then the amount of thickness increase diminishes and starts to decrease in thickness between 70%-80% span through to the blade tip.

X	Y	Z
-1.804	1.108	2.968
-1.804	1.108	2.968
-1.803	1.108	2.966
-1.801	1.108	2.962
-1.797	1.108	2.954
-1.795	1.108	2.950
-1.790	1.108	2.942
-1.788	1.108	2.938
-1.784	1.108	2.930
-1.782	1.108	2.926
-1.778	1.108	2.918
-1.776	1.108	2.914
-1.771	1.108	2.906
-1.767	1.108	2.898
-1.765	1.108	2.894
-1.761	1.108	2.886
-1.758	1.108	2.882
-1.754	1.108	2.874
-1.752	1.108	2.870
-1.748	1.108	2.862
-1.746	1.108	2.858
-1.741	1.108	2.850
-1.739	1.108	2.847
-1.735	1.108	2.838
-1.733	1.108	2.835
-1.729	1.108	2.827
-1.727	1.108	2.823
-1.722	1.108	2.815
-1.720	1.108	2.811
-1.716	1.108	2.803
-1.714	1.108	2.799
-1.710	1.108	2.791
-1.708	1.108	2.787
-1.699	1.108	2.771
-1.695	1.108	2.764
-1.686	1.108	2.747
-1.682	1.108	2.740

-1.673	1.108	2.724
-1.669	1.108	2.717
-1.661	1.108	2.700
-1.657	1.108	2.693
-1.648	1.108	2.677
-1.644	1.108	2.669
-1.635	1.108	2.653
-1.631	1.108	2.646
-1.622	1.108	2.629
-1.618	1.108	2.621
-1.618	1.108	2.621
-1.613	1.108	2.613
-1.605	1.108	2.597
-1.595	1.108	2.580
-1.591	1.108	2.572
-1.582	1.108	2.555
-1.578	1.108	2.548
-1.569	1.108	2.530
-1.565	1.108	2.523
-1.556	1.108	2.506
-1.552	1.108	2.499
-1.542	1.108	2.481
-1.538	1.108	2.474
-1.529	1.108	2.457
-1.525	1.108	2.450
-1.516	1.108	2.432
-1.512	1.108	2.425
-1.503	1.108	2.407
-1.499	1.108	2.400
-1.489	1.108	2.383
-1.486	1.108	2.376
-1.476	1.108	2.358
-1.472	1.108	2.351
-1.463	1.108	2.334
-1.459	1.108	2.327
-1.450	1.108	2.309
-1.446	1.108	2.302
-1.435	1.108	2.282
-1.428	1.108	2.268
-1.420	1.108	2.253
-1.412	1.108	2.238
-1.409	1.108	2.233
-1.398	1.108	2.212

-1.394	1.108	2.204
-1.383	1.108	2.184
-1.379	1.108	2.176
-1.357	1.108	2.134
-1.349	1.108	2.119
-1.328	1.108	2.080
-1.320	1.108	2.065
-1.319	1.108	2.062
-1.297	1.108	2.020
-1.290	1.108	2.006
-1.268	1.108	1.963
-1.260	1.108	1.949
-1.238	1.108	1.906
-1.231	1.108	1.892
-1.218	1.108	1.867
-1.211	1.108	1.853
-1.202	1.108	1.835
-1.181	1.108	1.792
-1.174	1.108	1.778
-1.160	1.108	1.751
-1.156	1.108	1.743
-1.143	1.108	1.716
-1.139	1.108	1.708
-1.126	1.108	1.681
-1.122	1.108	1.673
-1.121	1.108	1.672
-1.108	1.108	1.645
-1.104	1.108	1.637
-1.091	1.108	1.609
-1.087	1.108	1.601
-1.074	1.108	1.573
-1.070	1.108	1.566
-1.057	1.108	1.538
-1.053	1.108	1.530
-1.040	1.108	1.502
-1.036	1.108	1.494
-1.036	1.108	1.494
-1.036	1.108	1.493
-1.034	1.108	1.490
-1.026	1.108	1.472
-0.997	1.108	1.410
-0.967	1.108	1.344
-0.959	1.108	1.326

-0.951	1.108	1.308
-0.943	1.108	1.290
-0.922	1.108	1.242
-0.914	1.108	1.224
-0.885	1.108	1.158
-0.883	1.108	1.152
-0.873	1.108	1.129
-0.868	1.108	1.118
-0.864	1.108	1.108
-0.852	1.108	1.080
-0.848	1.108	1.070
-0.832	1.108	1.032
-0.828	1.108	1.022
-0.812	1.108	0.983
-0.808	1.108	0.973
-0.792	1.108	0.935
-0.790	1.108	0.928
-0.785	1.108	0.918
-0.773	1.108	0.886
-0.768	1.108	0.875
-0.753	1.108	0.837
-0.749	1.108	0.826
-0.734	1.108	0.788
-0.730	1.108	0.777
-0.715	1.108	0.738
-0.714	1.108	0.736
-0.708	1.108	0.721
-0.689	1.108	0.670
-0.685	1.108	0.660
-0.672	1.108	0.626
-0.668	1.108	0.616
-0.656	1.108	0.581
-0.645	1.108	0.552
-0.641	1.108	0.542
-0.639	1.108	0.537
-0.636	1.108	0.526
-0.623	1.108	0.492
-0.619	1.108	0.482
-0.607	1.108	0.447
-0.603	1.108	0.437
-0.591	1.108	0.403
-0.587	1.108	0.392
-0.575	1.108	0.358

-0.573	1.108	0.352
-0.569	1.108	0.341
-0.559	1.108	0.313
-0.556	1.108	0.302
-0.544	1.108	0.268
-0.540	1.108	0.257
-0.528	1.108	0.223
-0.524	1.108	0.212
-0.513	1.108	0.179
-0.509	1.108	0.167
-0.498	1.108	0.134
-0.494	1.108	0.122
-0.483	1.108	0.088
-0.478	1.108	0.077
-0.467	1.108	0.043
-0.463	1.108	0.031
-0.452	1.108	-0.002
-0.443	1.108	-0.031
-0.438	1.108	-0.043
-0.437	1.108	-0.047
-0.431	1.108	-0.066
-0.414	1.108	-0.118
-0.409	1.108	-0.130
-0.399	1.108	-0.163
-0.395	1.108	-0.175
-0.384	1.108	-0.207
-0.380	1.108	-0.219
-0.370	1.108	-0.251
-0.366	1.108	-0.264
-0.355	1.108	-0.296
-0.351	1.108	-0.308
-0.341	1.108	-0.340
-0.337	1.108	-0.353
-0.326	1.108	-0.385
-0.322	1.108	-0.398
-0.312	1.108	-0.429
-0.307	1.108	-0.442
-0.297	1.108	-0.474
-0.293	1.108	-0.488
-0.282	1.108	-0.521
-0.277	1.108	-0.535
-0.267	1.108	-0.568
-0.262	1.108	-0.582

-0.251	1.108	-0.615
-0.246	1.108	-0.629
-0.236	1.108	-0.662
-0.231	1.108	-0.676
-0.220	1.108	-0.709
-0.216	1.108	-0.723
-0.205	1.108	-0.756
-0.200	1.108	-0.770
-0.190	1.108	-0.802
-0.188	1.108	-0.807
-0.183	1.108	-0.821
-0.174	1.108	-0.849
-0.168	1.108	-0.867
-0.155	1.108	-0.907
-0.151	1.108	-0.920
-0.142	1.108	-0.947
-0.138	1.108	-0.959
-0.129	1.108	-0.987
-0.125	1.108	-0.999
-0.116	1.108	-1.027
-0.111	1.108	-1.039
-0.102	1.108	-1.066
-0.098	1.108	-1.079
-0.089	1.108	-1.106
-0.085	1.108	-1.118
-0.076	1.108	-1.146
-0.072	1.108	-1.158
-0.063	1.108	-1.185
-0.058	1.108	-1.198
-0.049	1.108	-1.225
-0.044	1.108	-1.241
-0.032	1.108	-1.276
-0.027	1.108	-1.291
-0.015	1.108	-1.326
-0.010	1.108	-1.342
0.002	1.108	-1.377
0.008	1.108	-1.393
0.019	1.108	-1.428
0.025	1.108	-1.443
0.037	1.108	-1.478
0.042	1.108	-1.494
0.054	1.108	-1.529
0.060	1.108	-1.544

0.071	1.108	-1.579
0.077	1.108	-1.595
0.089	1.108	-1.630
0.092	1.108	-1.639
0.099	1.108	-1.660
0.103	1.108	-1.670
0.110	1.108	-1.691
0.114	1.108	-1.702
0.123	1.108	-1.728
0.127	1.108	-1.739
0.136	1.108	-1.764
0.140	1.108	-1.776
0.148	1.108	-1.801
0.153	1.108	-1.812
0.161	1.108	-1.838
0.165	1.108	-1.849
0.174	1.108	-1.875
0.178	1.108	-1.886
0.187	1.108	-1.911
0.191	1.108	-1.922
0.200	1.108	-1.948
0.204	1.108	-1.959
0.213	1.108	-1.985
0.220	1.108	-2.002
0.233	1.108	-2.040
0.240	1.108	-2.057
0.253	1.108	-2.096
0.259	1.108	-2.113
0.273	1.108	-2.151
0.279	1.108	-2.168
0.293	1.108	-2.206
0.300	1.108	-2.223
0.313	1.108	-2.262
0.320	1.108	-2.279
0.334	1.108	-2.317
0.340	1.108	-2.334
0.354	1.108	-2.373
0.360	1.108	-2.390
0.374	1.108	-2.428
0.378	1.108	-2.437
0.386	1.108	-2.458
0.389	1.108	-2.467
0.397	1.108	-2.488

0.417	1.108	-2.542
0.430	1.108	-2.577
0.450	1.108	-2.631
0.463	1.108	-2.665
0.484	1.108	-2.719
0.497	1.108	-2.753
0.518	1.108	-2.807
0.530	1.108	-2.841
0.555	1.108	-2.904
0.570	1.108	-2.945
0.595	1.108	-3.008
0.611	1.108	-3.048
0.623	1.108	-3.080
0.631	1.108	-3.100
0.644	1.108	-3.132
0.652	1.108	-3.152
0.665	1.108	-3.187
0.669	1.108	-3.195
0.672	1.108	-3.203
0.676	1.108	-3.213
0.681	1.108	-3.224
0.684	1.108	-3.232
0.686	1.108	-3.237
0.693	1.108	-3.249
0.694	1.108	-3.251
0.697	1.108	-3.256
0.699	1.108	-3.259
0.704	1.108	-3.266
0.707	1.108	-3.269
0.712	1.108	-3.275
0.715	1.108	-3.277
0.720	1.108	-3.282
0.723	1.108	-3.284
0.728	1.108	-3.288
0.732	1.108	-3.289
0.740	1.108	-3.293
0.743	1.108	-3.295
0.751	1.108	-3.298
0.753	1.108	-3.298
0.759	1.108	-3.300
0.762	1.108	-3.300
0.769	1.108	-3.301
0.771	1.108	-3.302

0.774	1.108	-3.302
0.780	1.108	-3.302
0.781	1.108	-3.302
0.784	1.108	-3.301
0.790	1.108	-3.301
0.798	1.108	-3.300
0.800	1.108	-3.299
0.801	1.108	-3.299
0.801	1.108	-3.299
0.804	1.108	-3.298
0.815	1.108	-3.294
0.816	1.108	-3.294
0.817	1.108	-3.293
0.828	1.108	-3.287
0.829	1.108	-3.286
0.831	1.108	-3.285
0.832	1.108	-3.284
0.842	1.108	-3.276
0.846	1.108	-3.271
0.847	1.108	-3.271
0.854	1.108	-3.261
0.856	1.108	-3.259
0.859	1.108	-3.254
0.862	1.108	-3.249
0.863	1.108	-3.247
0.865	1.108	-3.243
0.869	1.108	-3.232
0.871	1.108	-3.227
0.871	1.108	-3.226
0.873	1.108	-3.215
0.874	1.108	-3.209
0.875	1.108	-3.206
0.877	1.108	-3.192
0.877	1.108	-3.189
0.878	1.108	-3.175
0.880	1.108	-3.142
0.884	1.108	-3.068
0.885	1.108	-3.041
0.886	1.108	-3.038
0.890	1.108	-2.950
0.891	1.108	-2.917
0.891	1.108	-2.917
0.893	1.108	-2.885

0.896	1.108	-2.804
0.896	1.108	-2.804
0.897	1.108	-2.779
0.901	1.108	-2.691
0.901	1.108	-2.691
0.904	1.108	-2.579
0.904	1.108	-2.578
0.904	1.108	-2.578
0.904	1.108	-2.577
0.907	1.108	-2.466
0.910	1.108	-2.328
0.910	1.108	-2.297
0.911	1.108	-2.290
0.912	1.108	-2.130
0.912	1.108	-2.085
0.912	1.108	-1.965
0.910	1.108	-1.892
0.908	1.108	-1.800
0.905	1.108	-1.719
0.903	1.108	-1.649
0.898	1.108	-1.564
0.894	1.108	-1.498
0.888	1.108	-1.416
0.883	1.108	-1.347
0.876	1.108	-1.273
0.869	1.108	-1.196
0.862	1.108	-1.134
0.853	1.108	-1.046
0.846	1.108	-0.997
0.833	1.108	-0.895
0.828	1.108	-0.863
0.810	1.108	-0.745
0.808	1.108	-0.731
0.794	1.108	-0.647
0.788	1.108	-0.613
0.785	1.108	-0.595
0.770	1.108	-0.519
0.756	1.108	-0.446
0.751	1.108	-0.425
0.744	1.108	-0.391
0.728	1.108	-0.316
0.723	1.108	-0.297
0.723	1.108	-0.296

0.699	1.108	-0.196
0.687	1.108	-0.150
0.678	1.108	-0.115
0.659	1.108	-0.045
0.647	1.108	-0.004
0.640	1.108	0.020
0.629	1.108	0.057
0.605	1.108	0.136
0.603	1.108	0.141
0.584	1.108	0.200
0.573	1.108	0.232
0.560	1.108	0.270
0.559	1.108	0.272
0.557	1.108	0.278
0.556	1.108	0.281
0.541	1.108	0.323
0.540	1.108	0.327
0.524	1.108	0.367
0.523	1.108	0.372
0.521	1.108	0.377
0.507	1.108	0.414
0.504	1.108	0.420
0.489	1.108	0.460
0.485	1.108	0.470
0.482	1.108	0.477
0.470	1.108	0.506
0.467	1.108	0.514
0.451	1.108	0.551
0.445	1.108	0.566
0.441	1.108	0.575
0.431	1.108	0.597
0.427	1.108	0.606
0.411	1.108	0.642
0.403	1.108	0.662
0.398	1.108	0.672
0.391	1.108	0.687
0.386	1.108	0.698
0.370	1.108	0.732
0.359	1.108	0.756
0.353	1.108	0.767
0.348	1.108	0.777
0.343	1.108	0.788
0.327	1.108	0.821

0.313	1.108	0.849
0.307	1.108	0.861
0.304	1.108	0.866
0.298	1.108	0.877
0.281	1.108	0.910
0.275	1.108	0.922
0.258	1.108	0.953
0.258	1.108	0.954
0.251	1.108	0.966
0.234	1.108	0.997
0.227	1.108	1.009
0.210	1.108	1.040
0.207	1.108	1.045
0.200	1.108	1.058
0.185	1.108	1.083
0.162	1.108	1.123
0.150	1.108	1.144
0.143	1.108	1.155
0.135	1.108	1.168
0.116	1.108	1.199
0.103	1.108	1.221
0.094	1.108	1.235
0.089	1.108	1.244
0.080	1.108	1.257
0.061	1.108	1.288
0.046	1.108	1.311
0.037	1.108	1.325
0.032	1.108	1.332
0.023	1.108	1.345
0.014	1.108	1.358
0.003	1.108	1.375
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-0.027	1.108	1.419
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-0.041	1.108	1.440
-0.046	1.108	1.447
-0.056	1.108	1.462
-0.061	1.108	1.469
-0.072	1.108	1.483
-0.079	1.108	1.494
-0.084	1.108	1.501
-0.087	1.108	1.505
-0.092	1.108	1.512

-0.103	1.108	1.527
-0.108	1.108	1.534
-0.119	1.108	1.550
-0.124	1.108	1.557
-0.136	1.108	1.572
-0.141	1.108	1.579
-0.152	1.108	1.595
-0.157	1.108	1.602
-0.169	1.108	1.617
-0.174	1.108	1.624
-0.185	1.108	1.639
-0.191	1.108	1.646
-0.202	1.108	1.661
-0.208	1.108	1.669
-0.213	1.108	1.676
-0.219	1.108	1.683
-0.225	1.108	1.690
-0.236	1.108	1.705
-0.242	1.108	1.712
-0.254	1.108	1.727
-0.259	1.108	1.734
-0.271	1.108	1.749
-0.277	1.108	1.756
-0.288	1.108	1.771
-0.299	1.108	1.785
-0.323	1.108	1.815
-0.335	1.108	1.829
-0.359	1.108	1.858
-0.361	1.108	1.861
-0.362	1.108	1.862
-0.385	1.108	1.889
-0.433	1.108	1.946
-0.455	1.108	1.972
-0.504	1.108	2.028
-0.527	1.108	2.054
-0.577	1.108	2.110
-0.601	1.108	2.136
-0.652	1.108	2.191
-0.676	1.108	2.217
-0.727	1.108	2.271
-0.752	1.108	2.297
-0.804	1.108	2.351
-0.830	1.108	2.376

-0.883	1.108	2.430
-0.908	1.108	2.454
-0.962	1.108	2.507
-0.979	1.108	2.523
-1.015	1.108	2.557
-1.062	1.108	2.601
-1.161	1.108	2.693
-1.210	1.108	2.737
-1.311	1.108	2.827
-1.341	1.108	2.852
-1.401	1.108	2.904
-1.431	1.108	2.930
-1.493	1.108	2.981
-1.524	1.108	3.007
-1.587	1.108	3.058
-1.606	1.108	3.073
-1.626	1.108	3.090
-1.633	1.108	3.095
-1.649	1.108	3.107
-1.673	1.108	3.124
-1.684	1.108	3.132
-1.690	1.108	3.135
-1.692	1.108	3.136
-1.705	1.108	3.141
-1.711	1.108	3.144
-1.723	1.108	3.147
-1.728	1.108	3.148
-1.739	1.108	3.149
-1.744	1.108	3.149
-1.755	1.108	3.148
-1.760	1.108	3.147
-1.765	1.108	3.146
-1.767	1.108	3.145
-1.775	1.108	3.142
-1.778	1.108	3.140
-1.786	1.108	3.135
-1.789	1.108	3.133
-1.791	1.108	3.132
-1.791	1.108	3.131
-1.801	1.108	3.123
-1.805	1.108	3.119
-1.810	1.108	3.112
-1.812	1.108	3.109

-1.817	1.108	3.101
-1.820	1.108	3.096
-1.822	1.108	3.092
-1.823	1.108	3.088
-1.825	1.108	3.082
-1.828	1.108	3.073
-1.829	1.108	3.070
-1.830	1.108	3.060
-1.830	1.108	3.056
-1.831	1.108	3.051
-1.830	1.108	3.040
-1.830	1.108	3.039
-1.829	1.108	3.030
-1.828	1.108	3.025
-1.827	1.108	3.022
-1.826	1.108	3.017
-1.824	1.108	3.011
-1.822	1.108	3.005
-1.814	1.108	2.988
-1.812	1.108	2.983
-1.807	1.108	2.973
-1.804	1.108	2.968
-2.061	2.778	2.892
-2.051	2.778	2.877
-2.035	2.778	2.855
-2.031	2.778	2.849
-2.019	2.778	2.833
-2.015	2.778	2.827
-2.003	2.778	2.810
-1.999	2.778	2.804
-1.987	2.778	2.787
-1.983	2.778	2.781
-1.971	2.778	2.765
-1.967	2.778	2.759
-1.956	2.778	2.742
-1.951	2.778	2.736
-1.940	2.778	2.720
-1.936	2.778	2.713
-1.924	2.778	2.697
-1.920	2.778	2.691
-1.909	2.778	2.674
-1.905	2.778	2.668
-1.894	2.778	2.652

-1.889	2.778	2.646
-1.878	2.778	2.629
-1.874	2.778	2.623
-1.863	2.778	2.607
-1.859	2.778	2.601
-1.848	2.778	2.584
-1.839	2.778	2.571
-1.816	2.778	2.537
-1.808	2.778	2.524
-1.785	2.778	2.490
-1.776	2.778	2.477
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-1.745	2.778	2.430
-1.723	2.778	2.396
-1.715	2.778	2.383
-1.692	2.778	2.349
-1.684	2.778	2.336
-1.662	2.778	2.301
-1.653	2.778	2.288
-1.631	2.778	2.254
-1.623	2.778	2.241
-1.601	2.778	2.206
-1.598	2.778	2.201
-1.589	2.778	2.187
-1.579	2.778	2.172
-1.554	2.778	2.131
-1.544	2.778	2.116
-1.519	2.778	2.075
-1.514	2.778	2.068
-1.502	2.778	2.048
-1.497	2.778	2.040
-1.484	2.778	2.020
-1.480	2.778	2.012
-1.467	2.778	1.992
-1.462	2.778	1.984
-1.450	2.778	1.964
-1.445	2.778	1.956
-1.433	2.778	1.936
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-1.394	2.778	1.872

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-1.343	2.778	1.788
-1.330	2.778	1.767
-1.326	2.778	1.760
-1.313	2.778	1.739
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-1.292	2.778	1.704
-1.286	2.778	1.695
-1.271	2.778	1.669
-1.265	2.778	1.659
-1.250	2.778	1.634
-1.244	2.778	1.624
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-1.224	2.778	1.589
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-1.146	2.778	1.458
-1.146	2.778	1.458
-1.146	2.778	1.457
-1.139	2.778	1.445
-1.121	2.778	1.415
-1.115	2.778	1.404
-1.097	2.778	1.374
-1.094	2.778	1.369
-1.085	2.778	1.354
-1.082	2.778	1.348
-1.073	2.778	1.333
-1.070	2.778	1.327
-1.061	2.778	1.312
-1.058	2.778	1.307
-1.050	2.778	1.292
-1.046	2.778	1.286
-1.038	2.778	1.271
-1.034	2.778	1.266
-1.026	2.778	1.250

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-1.014	2.778	1.230
-1.011	2.778	1.224
-1.002	2.778	1.209
-0.999	2.778	1.204
-0.990	2.778	1.189
-0.987	2.778	1.183
-0.979	2.778	1.168
-0.975	2.778	1.162
-0.967	2.778	1.147
-0.964	2.778	1.142
-0.955	2.778	1.127
-0.953	2.778	1.123
-0.947	2.778	1.112
-0.945	2.778	1.109
-0.939	2.778	1.098
-0.935	2.778	1.092
-0.926	2.778	1.075
-0.922	2.778	1.068
-0.912	2.778	1.051
-0.909	2.778	1.045
-0.899	2.778	1.027
-0.895	2.778	1.021
-0.886	2.778	1.004
-0.882	2.778	0.997
-0.873	2.778	0.980
-0.869	2.778	0.974
-0.859	2.778	0.956
-0.856	2.778	0.950
-0.846	2.778	0.932
-0.843	2.778	0.926
-0.833	2.778	0.909
-0.830	2.778	0.902
-0.820	2.778	0.885
-0.817	2.778	0.879
-0.807	2.778	0.861
-0.804	2.778	0.855
-0.794	2.778	0.837
-0.791	2.778	0.831
-0.781	2.778	0.814
-0.778	2.778	0.807
-0.769	2.778	0.790
-0.765	2.778	0.784

-0.756	2.778	0.766
-0.752	2.778	0.760
-0.743	2.778	0.742
-0.740	2.778	0.736
-0.730	2.778	0.719
-0.728	2.778	0.714
-0.722	2.778	0.702
-0.719	2.778	0.698
-0.713	2.778	0.686
-0.711	2.778	0.681
-0.704	2.778	0.669
-0.702	2.778	0.665
-0.696	2.778	0.653
-0.693	2.778	0.647
-0.684	2.778	0.631
-0.681	2.778	0.626
-0.673	2.778	0.610
-0.670	2.778	0.604
-0.662	2.778	0.588
-0.659	2.778	0.583
-0.651	2.778	0.567
-0.648	2.778	0.561
-0.640	2.778	0.545
-0.637	2.778	0.540
-0.629	2.778	0.524
-0.626	2.778	0.518
-0.618	2.778	0.502
-0.615	2.778	0.496
-0.607	2.778	0.480
-0.604	2.778	0.475
-0.596	2.778	0.459
-0.593	2.778	0.453
-0.585	2.778	0.437
-0.582	2.778	0.431
-0.574	2.778	0.415
-0.571	2.778	0.410
-0.563	2.778	0.394
-0.560	2.778	0.388
-0.553	2.778	0.372
-0.550	2.778	0.366
-0.542	2.778	0.350
-0.539	2.778	0.344
-0.531	2.778	0.328

-0.528	2.778	0.322
-0.520	2.778	0.306
-0.517	2.778	0.301
-0.510	2.778	0.285
-0.507	2.778	0.279
-0.499	2.778	0.263
-0.496	2.778	0.257
-0.488	2.778	0.241
-0.485	2.778	0.235
-0.478	2.778	0.219
-0.475	2.778	0.213
-0.467	2.778	0.197
-0.464	2.778	0.191
-0.457	2.778	0.175
-0.454	2.778	0.169
-0.446	2.778	0.153
-0.443	2.778	0.147
-0.435	2.778	0.131
-0.432	2.778	0.125
-0.425	2.778	0.109
-0.422	2.778	0.103
-0.414	2.778	0.087
-0.411	2.778	0.081
-0.404	2.778	0.065
-0.401	2.778	0.059
-0.393	2.778	0.043
-0.390	2.778	0.037
-0.383	2.778	0.021
-0.380	2.778	0.015
-0.372	2.778	-0.002
-0.369	2.778	-0.008
-0.362	2.778	-0.024
-0.359	2.778	-0.030
-0.351	2.778	-0.046
-0.349	2.778	-0.051
-0.343	2.778	-0.064
-0.341	2.778	-0.068
-0.335	2.778	-0.081
-0.332	2.778	-0.086
-0.326	2.778	-0.099
-0.324	2.778	-0.103
-0.318	2.778	-0.116
-0.315	2.778	-0.122

-0.308	2.778	-0.138
-0.305	2.778	-0.144
-0.298	2.778	-0.160
-0.295	2.778	-0.166
-0.287	2.778	-0.182
-0.284	2.778	-0.187
-0.277	2.778	-0.204
-0.274	2.778	-0.209
-0.267	2.778	-0.225
-0.264	2.778	-0.231
-0.257	2.778	-0.247
-0.254	2.778	-0.253
-0.246	2.778	-0.269
-0.243	2.778	-0.275
-0.236	2.778	-0.291
-0.233	2.778	-0.297
-0.226	2.778	-0.313
-0.223	2.778	-0.319
-0.215	2.778	-0.335
-0.213	2.778	-0.341
-0.205	2.778	-0.357
-0.202	2.778	-0.362
-0.195	2.778	-0.378
-0.192	2.778	-0.384
-0.185	2.778	-0.400
-0.182	2.778	-0.406
-0.174	2.778	-0.422
-0.171	2.778	-0.428
-0.164	2.778	-0.444
-0.161	2.778	-0.450
-0.154	2.778	-0.466
-0.151	2.778	-0.472
-0.143	2.778	-0.489
-0.140	2.778	-0.495
-0.132	2.778	-0.512
-0.129	2.778	-0.518
-0.121	2.778	-0.535
-0.118	2.778	-0.541
-0.110	2.778	-0.557
-0.107	2.778	-0.563
-0.100	2.778	-0.580
-0.097	2.778	-0.586
-0.089	2.778	-0.603

-0.086	2.778	-0.609
-0.078	2.778	-0.626
-0.075	2.778	-0.632
-0.067	2.778	-0.649
-0.064	2.778	-0.655
-0.056	2.778	-0.672
-0.053	2.778	-0.678
-0.045	2.778	-0.694
-0.042	2.778	-0.700
-0.034	2.778	-0.717
-0.031	2.778	-0.723
-0.024	2.778	-0.740
-0.021	2.778	-0.746
-0.013	2.778	-0.763
-0.010	2.778	-0.769
-0.002	2.778	-0.785
0.001	2.778	-0.791
0.009	2.778	-0.808
0.012	2.778	-0.814
0.020	2.778	-0.831
0.024	2.778	-0.838
0.034	2.778	-0.859
0.037	2.778	-0.866
0.047	2.778	-0.887
0.050	2.778	-0.892
0.056	2.778	-0.906
0.059	2.778	-0.911
0.066	2.778	-0.926
0.068	2.778	-0.931
0.075	2.778	-0.945
0.078	2.778	-0.950
0.084	2.778	-0.964
0.087	2.778	-0.969
0.094	2.778	-0.983
0.096	2.778	-0.989
0.103	2.778	-1.003
0.106	2.778	-1.008
0.113	2.778	-1.022
0.115	2.778	-1.027
0.122	2.778	-1.041
0.125	2.778	-1.046
0.131	2.778	-1.061
0.134	2.778	-1.066

0.141	2.778	-1.080
0.143	2.778	-1.085
0.150	2.778	-1.099
0.153	2.778	-1.104
0.160	2.778	-1.118
0.162	2.778	-1.123
0.169	2.778	-1.137
0.172	2.778	-1.142
0.178	2.778	-1.157
0.181	2.778	-1.162
0.188	2.778	-1.176
0.191	2.778	-1.181
0.197	2.778	-1.195
0.201	2.778	-1.201
0.210	2.778	-1.220
0.213	2.778	-1.226
0.222	2.778	-1.244
0.225	2.778	-1.251
0.234	2.778	-1.269
0.237	2.778	-1.275
0.246	2.778	-1.293
0.250	2.778	-1.300
0.258	2.778	-1.318
0.262	2.778	-1.324
0.271	2.778	-1.342
0.274	2.778	-1.349
0.283	2.778	-1.367
0.286	2.778	-1.373
0.295	2.778	-1.391
0.299	2.778	-1.398
0.308	2.778	-1.416
0.311	2.778	-1.422
0.320	2.778	-1.440
0.323	2.778	-1.447
0.332	2.778	-1.465
0.336	2.778	-1.471
0.345	2.778	-1.489
0.348	2.778	-1.496
0.357	2.778	-1.514
0.360	2.778	-1.520
0.369	2.778	-1.538
0.373	2.778	-1.545
0.382	2.778	-1.563

0.385	2.778	-1.569
0.394	2.778	-1.587
0.398	2.778	-1.595
0.409	2.778	-1.617
0.413	2.778	-1.624
0.424	2.778	-1.646
0.427	2.778	-1.651
0.434	2.778	-1.664
0.436	2.778	-1.669
0.443	2.778	-1.682
0.445	2.778	-1.686
0.452	2.778	-1.700
0.454	2.778	-1.704
0.461	2.778	-1.717
0.464	2.778	-1.722
0.470	2.778	-1.735
0.473	2.778	-1.740
0.480	2.778	-1.753
0.482	2.778	-1.757
0.489	2.778	-1.771
0.491	2.778	-1.775
0.498	2.778	-1.788
0.500	2.778	-1.793
0.507	2.778	-1.806
0.510	2.778	-1.811
0.516	2.778	-1.824
0.519	2.778	-1.829
0.526	2.778	-1.842
0.528	2.778	-1.846
0.535	2.778	-1.859
0.537	2.778	-1.864
0.544	2.778	-1.877
0.547	2.778	-1.882
0.554	2.778	-1.895
0.556	2.778	-1.899
0.563	2.778	-1.913
0.565	2.778	-1.917
0.572	2.778	-1.930
0.576	2.778	-1.937
0.586	2.778	-1.957
0.590	2.778	-1.964
0.600	2.778	-1.984
0.604	2.778	-1.991

0.615	2.778	-2.011
0.618	2.778	-2.018
0.629	2.778	-2.037
0.633	2.778	-2.044
0.643	2.778	-2.064
0.647	2.778	-2.071
0.657	2.778	-2.091
0.661	2.778	-2.098
0.671	2.778	-2.118
0.675	2.778	-2.124
0.686	2.778	-2.144
0.690	2.778	-2.151
0.700	2.778	-2.171
0.704	2.778	-2.178
0.714	2.778	-2.198
0.718	2.778	-2.204
0.729	2.778	-2.224
0.733	2.778	-2.231
0.743	2.778	-2.251
0.747	2.778	-2.258
0.758	2.778	-2.277
0.762	2.778	-2.284
0.772	2.778	-2.304
0.776	2.778	-2.311
0.787	2.778	-2.331
0.790	2.778	-2.338
0.801	2.778	-2.357
0.805	2.778	-2.365
0.817	2.778	-2.386
0.821	2.778	-2.394
0.833	2.778	-2.415
0.836	2.778	-2.420
0.844	2.778	-2.436
0.847	2.778	-2.442
0.856	2.778	-2.457
0.859	2.778	-2.463
0.868	2.778	-2.478
0.871	2.778	-2.484
0.879	2.778	-2.500
0.882	2.778	-2.505
0.891	2.778	-2.521
0.894	2.778	-2.526
0.903	2.778	-2.542

0.906	2.778	-2.547
0.914	2.778	-2.563
0.918	2.778	-2.568
0.926	2.778	-2.584
0.929	2.778	-2.589
0.938	2.778	-2.605
0.941	2.778	-2.611
0.950	2.778	-2.626
0.953	2.778	-2.632
0.962	2.778	-2.647
0.965	2.778	-2.653
0.973	2.778	-2.668
0.977	2.778	-2.674
0.985	2.778	-2.689
0.988	2.778	-2.695
0.997	2.778	-2.710
1.000	2.778	-2.716
1.009	2.778	-2.731
1.012	2.778	-2.737
1.021	2.778	-2.752
1.025	2.778	-2.759
1.035	2.778	-2.777
1.039	2.778	-2.784
1.049	2.778	-2.802
1.053	2.778	-2.808
1.063	2.778	-2.826
1.067	2.778	-2.833
1.077	2.778	-2.851
1.081	2.778	-2.858
1.091	2.778	-2.876
1.095	2.778	-2.882
1.105	2.778	-2.901
1.109	2.778	-2.907
1.119	2.778	-2.925
1.123	2.778	-2.932
1.134	2.778	-2.950
1.137	2.778	-2.956
1.148	2.778	-2.975
1.152	2.778	-2.981
1.162	2.778	-2.999
1.166	2.778	-3.006
1.176	2.778	-3.024
1.180	2.778	-3.030

1.191	2.778	-3.049
1.195	2.778	-3.055
1.205	2.778	-3.074
1.210	2.778	-3.082
1.215	2.778	-3.090
1.216	2.778	-3.092
1.222	2.778	-3.102
1.224	2.778	-3.106
1.230	2.778	-3.116
1.233	2.778	-3.120
1.239	2.778	-3.130
1.242	2.778	-3.134
1.244	2.778	-3.137
1.248	2.778	-3.143
1.252	2.778	-3.149
1.256	2.778	-3.154
1.259	2.778	-3.159
1.263	2.778	-3.164
1.267	2.778	-3.169
1.271	2.778	-3.174
1.274	2.778	-3.178
1.279	2.778	-3.183
1.283	2.778	-3.187
1.288	2.778	-3.191
1.293	2.778	-3.194
1.293	2.778	-3.194
1.299	2.778	-3.197
1.304	2.778	-3.199
1.309	2.778	-3.200
1.314	2.778	-3.200
1.319	2.778	-3.200
1.323	2.778	-3.199
1.328	2.778	-3.198
1.332	2.778	-3.196
1.336	2.778	-3.194
1.336	2.778	-3.194
1.338	2.778	-3.193
1.343	2.778	-3.188
1.347	2.778	-3.184
1.350	2.778	-3.179
1.353	2.778	-3.174
1.354	2.778	-3.168
1.356	2.778	-3.162

1.357	2.778	-3.155
1.358	2.778	-3.148
1.358	2.778	-3.144
1.358	2.778	-3.140
1.357	2.778	-3.135
1.357	2.778	-3.131
1.356	2.778	-3.125
1.356	2.778	-3.119
1.354	2.778	-3.112
1.354	2.778	-3.106
1.352	2.778	-3.099
1.351	2.778	-3.093
1.350	2.778	-3.086
1.349	2.778	-3.080
1.349	2.778	-3.080
1.348	2.778	-3.077
1.347	2.778	-3.072
1.346	2.778	-3.068
1.345	2.778	-3.063
1.345	2.778	-3.059
1.344	2.778	-3.055
1.342	2.778	-3.042
1.341	2.778	-3.038
1.340	2.778	-3.027
1.339	2.778	-3.024
1.339	2.778	-3.021
1.337	2.778	-3.014
1.337	2.778	-3.007
1.335	2.778	-3.000
1.334	2.778	-2.993
1.333	2.778	-2.986
1.332	2.778	-2.979
1.331	2.778	-2.972
1.330	2.778	-2.965
1.329	2.778	-2.957
1.328	2.778	-2.951
1.327	2.778	-2.944
1.326	2.778	-2.937
1.325	2.778	-2.930
1.324	2.778	-2.923
1.323	2.778	-2.916
1.322	2.778	-2.909
1.320	2.778	-2.902

1.319	2.778	-2.895
1.318	2.778	-2.888
1.317	2.778	-2.881
1.316	2.778	-2.874
1.315	2.778	-2.868
1.314	2.778	-2.861
1.313	2.778	-2.854
1.312	2.778	-2.847
1.311	2.778	-2.840
1.310	2.778	-2.833
1.309	2.778	-2.827
1.308	2.778	-2.820
1.307	2.778	-2.813
1.306	2.778	-2.806
1.305	2.778	-2.800
1.304	2.778	-2.793
1.303	2.778	-2.786
1.301	2.778	-2.779
1.300	2.778	-2.773
1.299	2.778	-2.766
1.298	2.778	-2.759
1.297	2.778	-2.752
1.296	2.778	-2.746
1.295	2.778	-2.739
1.294	2.778	-2.732
1.293	2.778	-2.726
1.292	2.778	-2.719
1.291	2.778	-2.712
1.290	2.778	-2.706
1.289	2.778	-2.699
1.288	2.778	-2.692
1.287	2.778	-2.686
1.286	2.778	-2.679
1.284	2.778	-2.672
1.284	2.778	-2.666
1.283	2.778	-2.660
1.280	2.778	-2.644
1.279	2.778	-2.638
1.277	2.778	-2.622
1.275	2.778	-2.616
1.273	2.778	-2.600
1.272	2.778	-2.594
1.269	2.778	-2.578

1.268	2.778	-2.572
1.266	2.778	-2.556
1.265	2.778	-2.550
1.262	2.778	-2.534
1.261	2.778	-2.528
1.259	2.778	-2.512
1.257	2.778	-2.506
1.255	2.778	-2.490
1.254	2.778	-2.484
1.251	2.778	-2.467
1.250	2.778	-2.462
1.247	2.778	-2.445
1.246	2.778	-2.440
1.244	2.778	-2.423
1.243	2.778	-2.418
1.240	2.778	-2.401
1.239	2.778	-2.396
1.236	2.778	-2.379
1.235	2.778	-2.373
1.232	2.778	-2.357
1.231	2.778	-2.351
1.229	2.778	-2.335
1.227	2.778	-2.329
1.225	2.778	-2.313
1.224	2.778	-2.308
1.222	2.778	-2.295
1.221	2.778	-2.290
1.219	2.778	-2.277
1.218	2.778	-2.273
1.215	2.778	-2.259
1.214	2.778	-2.255
1.212	2.778	-2.241
1.211	2.778	-2.237
1.209	2.778	-2.224
1.208	2.778	-2.219
1.206	2.778	-2.206
1.205	2.778	-2.201
1.203	2.778	-2.188
1.202	2.778	-2.183
1.199	2.778	-2.170
1.199	2.778	-2.166
1.196	2.778	-2.153
1.195	2.778	-2.148

1.193	2.778	-2.135
1.192	2.778	-2.130
1.190	2.778	-2.117
1.189	2.778	-2.113
1.187	2.778	-2.099
1.186	2.778	-2.095
1.183	2.778	-2.082
1.182	2.778	-2.077
1.180	2.778	-2.064
1.179	2.778	-2.060
1.177	2.778	-2.046
1.176	2.778	-2.042
1.173	2.778	-2.029
1.172	2.778	-2.024
1.170	2.778	-2.011
1.169	2.778	-2.007
1.167	2.778	-1.994
1.166	2.778	-1.989
1.163	2.778	-1.976
1.162	2.778	-1.971
1.160	2.778	-1.958
1.159	2.778	-1.954
1.157	2.778	-1.941
1.156	2.778	-1.936
1.153	2.778	-1.923
1.152	2.778	-1.919
1.150	2.778	-1.906
1.149	2.778	-1.901
1.146	2.778	-1.888
1.145	2.778	-1.884
1.143	2.778	-1.871
1.142	2.778	-1.866
1.139	2.778	-1.853
1.138	2.778	-1.849
1.136	2.778	-1.836
1.135	2.778	-1.831
1.132	2.778	-1.818
1.131	2.778	-1.814
1.129	2.778	-1.801
1.128	2.778	-1.796
1.125	2.778	-1.783
1.124	2.778	-1.779
1.122	2.778	-1.766

1.121	2.778	-1.761
1.118	2.778	-1.748
1.117	2.778	-1.744
1.115	2.778	-1.731
1.114	2.778	-1.726
1.111	2.778	-1.713
1.110	2.778	-1.709
1.108	2.778	-1.696
1.106	2.778	-1.691
1.104	2.778	-1.679
1.103	2.778	-1.674
1.100	2.778	-1.661
1.099	2.778	-1.657
1.097	2.778	-1.644
1.096	2.778	-1.639
1.093	2.778	-1.626
1.092	2.778	-1.622
1.089	2.778	-1.609
1.088	2.778	-1.604
1.085	2.778	-1.589
1.084	2.778	-1.583
1.080	2.778	-1.568
1.079	2.778	-1.563
1.076	2.778	-1.548
1.075	2.778	-1.543
1.072	2.778	-1.528
1.070	2.778	-1.522
1.067	2.778	-1.507
1.066	2.778	-1.502
1.063	2.778	-1.487
1.061	2.778	-1.482
1.058	2.778	-1.467
1.057	2.778	-1.462
1.054	2.778	-1.447
1.052	2.778	-1.442
1.049	2.778	-1.428
1.048	2.778	-1.424
1.045	2.778	-1.410
1.044	2.778	-1.405
1.041	2.778	-1.392
1.040	2.778	-1.387
1.037	2.778	-1.373
1.036	2.778	-1.369

1.033	2.778	-1.355
1.032	2.778	-1.351
1.029	2.778	-1.337
1.027	2.778	-1.333
1.024	2.778	-1.319
1.023	2.778	-1.315
1.020	2.778	-1.301
1.019	2.778	-1.297
1.016	2.778	-1.283
1.015	2.778	-1.279
1.012	2.778	-1.265
1.010	2.778	-1.261
1.007	2.778	-1.248
1.006	2.778	-1.243
1.003	2.778	-1.230
1.001	2.778	-1.224
0.997	2.778	-1.207
0.996	2.778	-1.201
0.992	2.778	-1.185
0.990	2.778	-1.179
0.986	2.778	-1.162
0.985	2.778	-1.156
0.981	2.778	-1.140
0.979	2.778	-1.134
0.975	2.778	-1.117
0.973	2.778	-1.111
0.969	2.778	-1.095
0.968	2.778	-1.089
0.964	2.778	-1.073
0.962	2.778	-1.067
0.958	2.778	-1.050
0.956	2.778	-1.044
0.952	2.778	-1.028
0.950	2.778	-1.022
0.946	2.778	-1.005
0.945	2.778	-1.000
0.940	2.778	-0.983
0.939	2.778	-0.977
0.934	2.778	-0.961
0.933	2.778	-0.955
0.928	2.778	-0.939
0.927	2.778	-0.933
0.922	2.778	-0.916

0.921	2.778	-0.911
0.916	2.778	-0.894
0.915	2.778	-0.889
0.910	2.778	-0.872
0.909	2.778	-0.867
0.905	2.778	-0.854
0.904	2.778	-0.849
0.900	2.778	-0.835
0.898	2.778	-0.830
0.894	2.778	-0.815
0.893	2.778	-0.810
0.889	2.778	-0.795
0.887	2.778	-0.790
0.883	2.778	-0.775
0.881	2.778	-0.770
0.877	2.778	-0.755
0.875	2.778	-0.750
0.871	2.778	-0.735
0.869	2.778	-0.730
0.865	2.778	-0.715
0.864	2.778	-0.710
0.859	2.778	-0.695
0.858	2.778	-0.690
0.853	2.778	-0.676
0.852	2.778	-0.670
0.847	2.778	-0.656
0.846	2.778	-0.651
0.841	2.778	-0.636
0.840	2.778	-0.631
0.835	2.778	-0.616
0.833	2.778	-0.611
0.829	2.778	-0.596
0.827	2.778	-0.591
0.823	2.778	-0.577
0.821	2.778	-0.572
0.817	2.778	-0.557
0.815	2.778	-0.552
0.810	2.778	-0.537
0.808	2.778	-0.532
0.804	2.778	-0.518
0.802	2.778	-0.511
0.796	2.778	-0.492
0.793	2.778	-0.486

0.787	2.778	-0.467
0.785	2.778	-0.461
0.779	2.778	-0.442
0.777	2.778	-0.436
0.770	2.778	-0.417
0.768	2.778	-0.411
0.762	2.778	-0.393
0.760	2.778	-0.387
0.754	2.778	-0.370
0.752	2.778	-0.364
0.746	2.778	-0.346
0.743	2.778	-0.340
0.737	2.778	-0.323
0.735	2.778	-0.316
0.729	2.778	-0.299
0.727	2.778	-0.293
0.721	2.778	-0.276
0.718	2.778	-0.270
0.712	2.778	-0.252
0.710	2.778	-0.246
0.703	2.778	-0.229
0.701	2.778	-0.223
0.694	2.778	-0.206
0.692	2.778	-0.199
0.686	2.778	-0.182
0.683	2.778	-0.176
0.677	2.778	-0.159
0.674	2.778	-0.153
0.668	2.778	-0.136
0.665	2.778	-0.130
0.659	2.778	-0.113
0.656	2.778	-0.107
0.649	2.778	-0.090
0.647	2.778	-0.084
0.640	2.778	-0.067
0.638	2.778	-0.061
0.631	2.778	-0.044
0.628	2.778	-0.038
0.621	2.778	-0.021
0.619	2.778	-0.015
0.612	2.778	0.002
0.609	2.778	0.008
0.602	2.778	0.025

0.600	2.778	0.030
0.593	2.778	0.047
0.590	2.778	0.053
0.583	2.778	0.070
0.580	2.778	0.076
0.573	2.778	0.092
0.570	2.778	0.098
0.563	2.778	0.115
0.560	2.778	0.121
0.553	2.778	0.137
0.550	2.778	0.143
0.543	2.778	0.160
0.540	2.778	0.165
0.532	2.778	0.182
0.530	2.778	0.188
0.522	2.778	0.204
0.519	2.778	0.210
0.512	2.778	0.226
0.509	2.778	0.232
0.501	2.778	0.248
0.498	2.778	0.254
0.491	2.778	0.270
0.488	2.778	0.276
0.480	2.778	0.292
0.477	2.778	0.298
0.469	2.778	0.314
0.466	2.778	0.320
0.458	2.778	0.336
0.456	2.778	0.341
0.448	2.778	0.357
0.445	2.778	0.362
0.437	2.778	0.378
0.434	2.778	0.383
0.426	2.778	0.399
0.423	2.778	0.405
0.415	2.778	0.421
0.411	2.778	0.427
0.403	2.778	0.443
0.400	2.778	0.449
0.391	2.778	0.465
0.388	2.778	0.470
0.380	2.778	0.487
0.376	2.778	0.492

0.368	2.778	0.508
0.364	2.778	0.514
0.356	2.778	0.530
0.352	2.778	0.536
0.344	2.778	0.552
0.340	2.778	0.557
0.331	2.778	0.573
0.328	2.778	0.579
0.319	2.778	0.595
0.316	2.778	0.600
0.307	2.778	0.616
0.303	2.778	0.622
0.294	2.778	0.637
0.291	2.778	0.643
0.282	2.778	0.659
0.278	2.778	0.664
0.269	2.778	0.680
0.265	2.778	0.685
0.256	2.778	0.701
0.253	2.778	0.707
0.243	2.778	0.722
0.240	2.778	0.728
0.230	2.778	0.743
0.227	2.778	0.749
0.217	2.778	0.764
0.214	2.778	0.770
0.204	2.778	0.785
0.200	2.778	0.791
0.191	2.778	0.806
0.187	2.778	0.811
0.177	2.778	0.827
0.173	2.778	0.832
0.164	2.778	0.847
0.160	2.778	0.853
0.150	2.778	0.868
0.146	2.778	0.874
0.136	2.778	0.889
0.133	2.778	0.894
0.122	2.778	0.909
0.119	2.778	0.915
0.109	2.778	0.930
0.105	2.778	0.935
0.095	2.778	0.950

0.091	2.778	0.956
0.080	2.778	0.971
0.077	2.778	0.976
0.066	2.778	0.991
0.062	2.778	0.996
0.052	2.778	1.011
0.048	2.778	1.017
0.037	2.778	1.031
0.034	2.778	1.037
0.023	2.778	1.052
0.019	2.778	1.057
0.008	2.778	1.072
0.002	2.778	1.080
-0.016	2.778	1.105
-0.023	2.778	1.114
-0.041	2.778	1.138
-0.045	2.778	1.143
-0.057	2.778	1.159
-0.061	2.778	1.164
-0.073	2.778	1.180
-0.077	2.778	1.185
-0.089	2.778	1.200
-0.093	2.778	1.206
-0.105	2.778	1.221
-0.114	2.778	1.232
-0.138	2.778	1.262
-0.146	2.778	1.273
-0.170	2.778	1.303
-0.180	2.778	1.314
-0.204	2.778	1.344
-0.213	2.778	1.355
-0.238	2.778	1.384
-0.247	2.778	1.395
-0.272	2.778	1.425
-0.281	2.778	1.435
-0.306	2.778	1.465
-0.316	2.778	1.476
-0.343	2.778	1.507
-0.353	2.778	1.518
-0.380	2.778	1.549
-0.390	2.778	1.560
-0.418	2.778	1.591
-0.428	2.778	1.602

-0.456	2.778	1.632
-0.466	2.778	1.643
-0.494	2.778	1.674
-0.504	2.778	1.685
-0.532	2.778	1.715
-0.543	2.778	1.726
-0.571	2.778	1.756
-0.582	2.778	1.767
-0.610	2.778	1.797
-0.611	2.778	1.797
-0.614	2.778	1.801
-0.624	2.778	1.811
-0.652	2.778	1.840
-0.663	2.778	1.851
-0.691	2.778	1.879
-0.701	2.778	1.890
-0.729	2.778	1.918
-0.740	2.778	1.929
-0.768	2.778	1.957
-0.779	2.778	1.968
-0.807	2.778	1.996
-0.818	2.778	2.006
-0.847	2.778	2.035
-0.890	2.778	2.076
-0.927	2.778	2.112
-0.970	2.778	2.153
-1.008	2.778	2.189
-1.052	2.778	2.230
-1.089	2.778	2.265
-1.134	2.778	2.306
-1.171	2.778	2.341
-1.216	2.778	2.381
-1.254	2.778	2.416
-1.284	2.778	2.442
-1.309	2.778	2.464
-1.390	2.778	2.536
-1.460	2.778	2.597
-1.543	2.778	2.669
-1.614	2.778	2.730
-1.639	2.778	2.751
-1.707	2.778	2.808
-1.732	2.778	2.829
-1.801	2.778	2.887

-1.827	2.778	2.908
-1.896	2.778	2.965
-1.909	2.778	2.975
-1.934	2.778	2.996
-1.952	2.778	3.011
-2.002	2.778	3.050
-2.018	2.778	3.061
-2.024	2.778	3.065
-2.038	2.778	3.072
-2.044	2.778	3.074
-2.056	2.778	3.078
-2.061	2.778	3.079
-2.072	2.778	3.079
-2.076	2.778	3.080
-2.083	2.778	3.079
-2.083	2.778	3.079
-2.089	2.778	3.077
-2.094	2.778	3.075
-2.099	2.778	3.072
-2.104	2.778	3.069
-2.106	2.778	3.067
-2.106	2.778	3.067
-2.111	2.778	3.060
-2.117	2.778	3.053
-2.119	2.778	3.048
-2.121	2.778	3.042
-2.122	2.778	3.034
-2.123	2.778	3.024
-2.123	2.778	3.014
-2.121	2.778	3.003
-2.118	2.778	2.989
-2.116	2.778	2.984
-2.110	2.778	2.970
-2.108	2.778	2.965
-2.096	2.778	2.943
-2.091	2.778	2.935
-2.082	2.778	2.922
-2.061	2.778	2.892
-2.294	4.448	2.811
-2.273	4.448	2.782
-2.268	4.448	2.775
-2.210	4.448	2.696
-2.201	4.448	2.684

-2.172	4.448	2.645
-2.168	4.448	2.639
-2.139	4.448	2.600
-2.135	4.448	2.594
-2.106	4.448	2.554
-2.101	4.448	2.548
-2.073	4.448	2.509
-2.068	4.448	2.503
-2.056	4.448	2.486
-2.051	4.448	2.480
-2.038	4.448	2.463
-2.034	4.448	2.456
-2.021	4.448	2.439
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-2.004	4.448	2.416
-1.999	4.448	2.409
-1.987	4.448	2.392
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-1.969	4.448	2.369
-1.965	4.448	2.362
-1.952	4.448	2.345
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-1.935	4.448	2.322
-1.930	4.448	2.315
-1.905	4.448	2.281
-1.896	4.448	2.269
-1.870	4.448	2.234
-1.861	4.448	2.222
-1.836	4.448	2.187
-1.827	4.448	2.175
-1.801	4.448	2.140
-1.792	4.448	2.128
-1.782	4.448	2.114
-1.778	4.448	2.108
-1.763	4.448	2.088
-1.758	4.448	2.081
-1.743	4.448	2.061
-1.738	4.448	2.054
-1.723	4.448	2.034
-1.718	4.448	2.027
-1.703	4.448	2.007
-1.698	4.448	1.999
-1.683	4.448	1.979

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-1.663	4.448	1.952
-1.658	4.448	1.945
-1.643	4.448	1.925
-1.638	4.448	1.917
-1.624	4.448	1.898
-1.618	4.448	1.890
-1.604	4.448	1.870
-1.598	4.448	1.863
-1.584	4.448	1.843
-1.578	4.448	1.835
-1.564	4.448	1.816
-1.558	4.448	1.808
-1.544	4.448	1.788
-1.538	4.448	1.781
-1.524	4.448	1.761
-1.519	4.448	1.753
-1.504	4.448	1.734
-1.499	4.448	1.726
-1.484	4.448	1.706
-1.479	4.448	1.699
-1.464	4.448	1.679
-1.459	4.448	1.672
-1.450	4.448	1.659
-1.447	4.448	1.655
-1.438	4.448	1.642
-1.434	4.448	1.637
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-1.422	4.448	1.620
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-1.410	4.448	1.603
-1.401	4.448	1.591
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-1.388	4.448	1.574
-1.385	4.448	1.569
-1.376	4.448	1.557
-1.373	4.448	1.552
-1.364	4.448	1.540
-1.360	4.448	1.535
-1.351	4.448	1.523
-1.348	4.448	1.518
-1.339	4.448	1.506
-1.336	4.448	1.501

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-1.299	4.448	1.450
-1.290	4.448	1.438
-1.287	4.448	1.433
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-1.274	4.448	1.416
-1.266	4.448	1.404
-1.262	4.448	1.399
-1.262	4.448	1.398
-1.261	4.448	1.398
-1.251	4.448	1.384
-1.247	4.448	1.378
-1.237	4.448	1.364
-1.233	4.448	1.358
-1.222	4.448	1.344
-1.219	4.448	1.338
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-1.204	4.448	1.319
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-1.180	4.448	1.284
-1.176	4.448	1.279
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-1.162	4.448	1.259
-1.151	4.448	1.244
-1.148	4.448	1.239
-1.137	4.448	1.225
-1.133	4.448	1.219
-1.123	4.448	1.205
-1.119	4.448	1.199
-1.109	4.448	1.185
-1.105	4.448	1.179
-1.095	4.448	1.165
-1.091	4.448	1.159
-1.081	4.448	1.145
-1.077	4.448	1.140
-1.067	4.448	1.125
-1.063	4.448	1.120
-1.053	4.448	1.105

-1.049	4.448	1.100
-1.038	4.448	1.085
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-1.025	4.448	1.066
-1.018	4.448	1.056
-1.015	4.448	1.052
-1.004	4.448	1.036
-0.999	4.448	1.030
-0.987	4.448	1.013
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-0.971	4.448	0.990
-0.967	4.448	0.984
-0.955	4.448	0.967
-0.951	4.448	0.961
-0.939	4.448	0.944
-0.935	4.448	0.938
-0.923	4.448	0.922
-0.919	4.448	0.915
-0.907	4.448	0.899
-0.903	4.448	0.892
-0.892	4.448	0.876
-0.887	4.448	0.869
-0.876	4.448	0.853
-0.871	4.448	0.847
-0.860	4.448	0.830
-0.855	4.448	0.824
-0.844	4.448	0.807
-0.840	4.448	0.801
-0.828	4.448	0.784
-0.824	4.448	0.778
-0.812	4.448	0.761
-0.808	4.448	0.755
-0.796	4.448	0.738
-0.792	4.448	0.732
-0.781	4.448	0.715
-0.776	4.448	0.709
-0.765	4.448	0.692
-0.761	4.448	0.686
-0.753	4.448	0.674
-0.750	4.448	0.670
-0.742	4.448	0.658
-0.739	4.448	0.654

-0.731	4.448	0.643
-0.728	4.448	0.638
-0.720	4.448	0.627
-0.717	4.448	0.622
-0.707	4.448	0.607
-0.703	4.448	0.602
-0.693	4.448	0.587
-0.689	4.448	0.581
-0.679	4.448	0.566
-0.675	4.448	0.560
-0.665	4.448	0.545
-0.661	4.448	0.539
-0.651	4.448	0.524
-0.647	4.448	0.518
-0.637	4.448	0.503
-0.633	4.448	0.498
-0.623	4.448	0.483
-0.619	4.448	0.477
-0.609	4.448	0.462
-0.605	4.448	0.456
-0.595	4.448	0.441
-0.591	4.448	0.435
-0.581	4.448	0.420
-0.577	4.448	0.414
-0.567	4.448	0.399
-0.564	4.448	0.394
-0.553	4.448	0.378
-0.550	4.448	0.373
-0.540	4.448	0.358
-0.536	4.448	0.352
-0.526	4.448	0.337
-0.522	4.448	0.331
-0.512	4.448	0.316
-0.508	4.448	0.310
-0.498	4.448	0.295
-0.494	4.448	0.289
-0.484	4.448	0.274
-0.481	4.448	0.268
-0.471	4.448	0.253
-0.467	4.448	0.247
-0.457	4.448	0.232
-0.454	4.448	0.226
-0.444	4.448	0.211

-0.440	4.448	0.206
-0.430	4.448	0.190
-0.426	4.448	0.185
-0.416	4.448	0.169
-0.413	4.448	0.164
-0.403	4.448	0.149
-0.399	4.448	0.143
-0.389	4.448	0.128
-0.385	4.448	0.122
-0.376	4.448	0.107
-0.372	4.448	0.101
-0.362	4.448	0.086
-0.358	4.448	0.080
-0.348	4.448	0.065
-0.345	4.448	0.059
-0.335	4.448	0.043
-0.331	4.448	0.038
-0.321	4.448	0.022
-0.318	4.448	0.016
-0.308	4.448	0.001
-0.304	4.448	-0.005
-0.294	4.448	-0.020
-0.291	4.448	-0.026
-0.281	4.448	-0.041
-0.277	4.448	-0.047
-0.269	4.448	-0.059
-0.266	4.448	-0.064
-0.259	4.448	-0.076
-0.256	4.448	-0.080
-0.248	4.448	-0.092
-0.245	4.448	-0.097
-0.237	4.448	-0.109
-0.235	4.448	-0.114
-0.225	4.448	-0.129
-0.221	4.448	-0.134
-0.212	4.448	-0.149
-0.208	4.448	-0.155
-0.198	4.448	-0.170
-0.195	4.448	-0.176
-0.185	4.448	-0.191
-0.182	4.448	-0.197
-0.172	4.448	-0.212
-0.168	4.448	-0.218

-0.159	4.448	-0.233
-0.155	4.448	-0.238
-0.146	4.448	-0.253
-0.142	4.448	-0.259
-0.132	4.448	-0.274
-0.129	4.448	-0.280
-0.119	4.448	-0.295
-0.116	4.448	-0.301
-0.106	4.448	-0.316
-0.102	4.448	-0.322
-0.093	4.448	-0.337
-0.089	4.448	-0.343
-0.079	4.448	-0.358
-0.076	4.448	-0.364
-0.066	4.448	-0.379
-0.063	4.448	-0.385
-0.053	4.448	-0.400
-0.049	4.448	-0.405
-0.040	4.448	-0.421
-0.036	4.448	-0.426
-0.026	4.448	-0.441
-0.023	4.448	-0.447
-0.013	4.448	-0.463
-0.009	4.448	-0.469
0.001	4.448	-0.485
0.005	4.448	-0.491
0.015	4.448	-0.507
0.019	4.448	-0.513
0.029	4.448	-0.529
0.033	4.448	-0.535
0.043	4.448	-0.551
0.047	4.448	-0.557
0.057	4.448	-0.573
0.061	4.448	-0.579
0.071	4.448	-0.595
0.075	4.448	-0.601
0.085	4.448	-0.617
0.089	4.448	-0.623
0.099	4.448	-0.639
0.103	4.448	-0.645
0.113	4.448	-0.661
0.117	4.448	-0.667
0.127	4.448	-0.683

0.131	4.448	-0.689
0.141	4.448	-0.705
0.145	4.448	-0.711
0.155	4.448	-0.727
0.158	4.448	-0.733
0.169	4.448	-0.749
0.172	4.448	-0.755
0.183	4.448	-0.770
0.186	4.448	-0.777
0.197	4.448	-0.792
0.200	4.448	-0.798
0.213	4.448	-0.818
0.218	4.448	-0.825
0.230	4.448	-0.845
0.235	4.448	-0.852
0.244	4.448	-0.866
0.247	4.448	-0.871
0.256	4.448	-0.884
0.259	4.448	-0.889
0.267	4.448	-0.903
0.271	4.448	-0.908
0.279	4.448	-0.921
0.282	4.448	-0.927
0.291	4.448	-0.940
0.294	4.448	-0.945
0.303	4.448	-0.958
0.306	4.448	-0.964
0.315	4.448	-0.977
0.318	4.448	-0.982
0.327	4.448	-0.995
0.330	4.448	-1.000
0.339	4.448	-1.014
0.342	4.448	-1.019
0.351	4.448	-1.032
0.354	4.448	-1.037
0.363	4.448	-1.051
0.366	4.448	-1.056
0.375	4.448	-1.069
0.378	4.448	-1.074
0.386	4.448	-1.088
0.390	4.448	-1.093
0.398	4.448	-1.106
0.402	4.448	-1.111

0.410	4.448	-1.125
0.414	4.448	-1.130
0.422	4.448	-1.143
0.426	4.448	-1.148
0.437	4.448	-1.165
0.441	4.448	-1.172
0.452	4.448	-1.189
0.456	4.448	-1.195
0.467	4.448	-1.212
0.472	4.448	-1.219
0.483	4.448	-1.236
0.487	4.448	-1.243
0.498	4.448	-1.260
0.502	4.448	-1.266
0.514	4.448	-1.283
0.518	4.448	-1.290
0.529	4.448	-1.307
0.533	4.448	-1.314
0.545	4.448	-1.331
0.549	4.448	-1.337
0.560	4.448	-1.354
0.564	4.448	-1.361
0.576	4.448	-1.378
0.580	4.448	-1.384
0.591	4.448	-1.401
0.595	4.448	-1.408
0.606	4.448	-1.425
0.611	4.448	-1.431
0.622	4.448	-1.448
0.626	4.448	-1.455
0.638	4.448	-1.472
0.642	4.448	-1.478
0.653	4.448	-1.495
0.657	4.448	-1.502
0.669	4.448	-1.519
0.673	4.448	-1.525
0.687	4.448	-1.546
0.692	4.448	-1.554
0.705	4.448	-1.574
0.711	4.448	-1.582
0.727	4.448	-1.607
0.733	4.448	-1.617
0.750	4.448	-1.641

0.756	4.448	-1.651
0.773	4.448	-1.675
0.779	4.448	-1.685
0.796	4.448	-1.710
0.802	4.448	-1.719
0.818	4.448	-1.744
0.825	4.448	-1.753
0.841	4.448	-1.778
0.847	4.448	-1.787
0.864	4.448	-1.812
0.870	4.448	-1.821
0.887	4.448	-1.846
0.893	4.448	-1.855
0.906	4.448	-1.874
0.911	4.448	-1.881
0.923	4.448	-1.899
0.928	4.448	-1.906
0.941	4.448	-1.925
0.945	4.448	-1.932
0.958	4.448	-1.950
0.963	4.448	-1.958
0.975	4.448	-1.976
0.980	4.448	-1.983
0.993	4.448	-2.002
0.997	4.448	-2.009
1.010	4.448	-2.027
1.015	4.448	-2.034
1.027	4.448	-2.053
1.032	4.448	-2.060
1.045	4.448	-2.078
1.050	4.448	-2.085
1.062	4.448	-2.103
1.067	4.448	-2.111
1.080	4.448	-2.129
1.084	4.448	-2.136
1.097	4.448	-2.154
1.102	4.448	-2.161
1.115	4.448	-2.180
1.119	4.448	-2.187
1.132	4.448	-2.205
1.137	4.448	-2.212
1.150	4.448	-2.231
1.155	4.448	-2.238

1.167	4.448	-2.256
1.172	4.448	-2.263
1.186	4.448	-2.283
1.191	4.448	-2.291
1.205	4.448	-2.311
1.210	4.448	-2.318
1.231	4.448	-2.347
1.239	4.448	-2.359
1.259	4.448	-2.388
1.267	4.448	-2.399
1.288	4.448	-2.428
1.295	4.448	-2.440
1.316	4.448	-2.469
1.324	4.448	-2.480
1.344	4.448	-2.510
1.352	4.448	-2.521
1.373	4.448	-2.550
1.381	4.448	-2.562
1.402	4.448	-2.591
1.410	4.448	-2.602
1.431	4.448	-2.631
1.438	4.448	-2.643
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1.455	4.448	-2.667
1.468	4.448	-2.684
1.472	4.448	-2.691
1.485	4.448	-2.708
1.489	4.448	-2.714
1.502	4.448	-2.732
1.507	4.448	-2.738
1.519	4.448	-2.756
1.524	4.448	-2.762
1.536	4.448	-2.780
1.541	4.448	-2.786
1.553	4.448	-2.804
1.558	4.448	-2.810
1.571	4.448	-2.828
1.575	4.448	-2.834
1.588	4.448	-2.852
1.593	4.448	-2.858
1.605	4.448	-2.876
1.610	4.448	-2.882
1.623	4.448	-2.900

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1.657	4.448	-2.948
1.662	4.448	-2.955
1.667	4.448	-2.961
1.674	4.448	-2.971
1.677	4.448	-2.975
1.681	4.448	-2.981
1.687	4.448	-2.988
1.690	4.448	-2.993
1.695	4.448	-3.001
1.698	4.448	-3.005
1.701	4.448	-3.009
1.704	4.448	-3.013
1.709	4.448	-3.020
1.712	4.448	-3.025
1.718	4.448	-3.033
1.721	4.448	-3.037
1.727	4.448	-3.044
1.730	4.448	-3.049
1.736	4.448	-3.055
1.739	4.448	-3.059
1.746	4.448	-3.066
1.750	4.448	-3.070
1.757	4.448	-3.074
1.761	4.448	-3.077
1.764	4.448	-3.079
1.768	4.448	-3.081
1.772	4.448	-3.083
1.778	4.448	-3.084
1.782	4.448	-3.085
1.787	4.448	-3.085
1.790	4.448	-3.084
1.795	4.448	-3.084
1.799	4.448	-3.082
1.803	4.448	-3.080
1.805	4.448	-3.079
1.806	4.448	-3.078
1.811	4.448	-3.073
1.814	4.448	-3.070
1.817	4.448	-3.063
1.819	4.448	-3.059

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1.821	4.448	-3.047
1.821	4.448	-3.037
1.821	4.448	-3.031
1.820	4.448	-3.028
1.820	4.448	-3.023
1.819	4.448	-3.018
1.817	4.448	-3.013
1.815	4.448	-3.006
1.814	4.448	-3.001
1.811	4.448	-2.993
1.809	4.448	-2.988
1.806	4.448	-2.980
1.804	4.448	-2.975
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1.799	4.448	-2.962
1.794	4.448	-2.949
1.791	4.448	-2.941
1.784	4.448	-2.920
1.780	4.448	-2.910
1.779	4.448	-2.907
1.778	4.448	-2.904
1.776	4.448	-2.898
1.774	4.448	-2.891
1.772	4.448	-2.885
1.769	4.448	-2.877
1.763	4.448	-2.858
1.760	4.448	-2.851
1.754	4.448	-2.832
1.751	4.448	-2.824
1.745	4.448	-2.805
1.743	4.448	-2.798
1.736	4.448	-2.779
1.734	4.448	-2.771
1.727	4.448	-2.752
1.725	4.448	-2.745
1.718	4.448	-2.726
1.716	4.448	-2.718
1.709	4.448	-2.699
1.707	4.448	-2.692
1.700	4.448	-2.673
1.698	4.448	-2.665
1.691	4.448	-2.646

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1.680	4.448	-2.613
1.673	4.448	-2.594
1.671	4.448	-2.586
1.664	4.448	-2.567
1.662	4.448	-2.560
1.656	4.448	-2.544
1.655	4.448	-2.538
1.649	4.448	-2.523
1.647	4.448	-2.517
1.642	4.448	-2.501
1.640	4.448	-2.495
1.634	4.448	-2.479
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1.627	4.448	-2.458
1.625	4.448	-2.452
1.619	4.448	-2.436
1.617	4.448	-2.430
1.612	4.448	-2.414
1.610	4.448	-2.408
1.604	4.448	-2.393
1.602	4.448	-2.387
1.597	4.448	-2.371
1.595	4.448	-2.365
1.589	4.448	-2.350
1.587	4.448	-2.343
1.582	4.448	-2.328
1.580	4.448	-2.322
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1.572	4.448	-2.300
1.566	4.448	-2.285
1.564	4.448	-2.279
1.559	4.448	-2.263
1.557	4.448	-2.257
1.551	4.448	-2.242
1.549	4.448	-2.236
1.544	4.448	-2.220
1.542	4.448	-2.214
1.537	4.448	-2.202
1.536	4.448	-2.197
1.531	4.448	-2.184
1.529	4.448	-2.179

1.525	4.448	-2.167
1.523	4.448	-2.162
1.519	4.448	-2.150
1.517	4.448	-2.145
1.512	4.448	-2.132
1.511	4.448	-2.127
1.506	4.448	-2.115
1.505	4.448	-2.110
1.500	4.448	-2.098
1.499	4.448	-2.093
1.494	4.448	-2.081
1.492	4.448	-2.076
1.488	4.448	-2.063
1.486	4.448	-2.058
1.482	4.448	-2.046
1.480	4.448	-2.041
1.475	4.448	-2.029
1.474	4.448	-2.024
1.469	4.448	-2.012
1.468	4.448	-2.007
1.463	4.448	-1.995
1.461	4.448	-1.990
1.457	4.448	-1.978
1.455	4.448	-1.973
1.450	4.448	-1.960
1.449	4.448	-1.956
1.444	4.448	-1.943
1.443	4.448	-1.938
1.438	4.448	-1.926
1.436	4.448	-1.921
1.432	4.448	-1.909
1.430	4.448	-1.904
1.425	4.448	-1.892
1.424	4.448	-1.887
1.419	4.448	-1.875
1.417	4.448	-1.870
1.413	4.448	-1.858
1.411	4.448	-1.853
1.407	4.448	-1.841
1.405	4.448	-1.836
1.400	4.448	-1.824
1.399	4.448	-1.819
1.394	4.448	-1.807

1.392	4.448	-1.802
1.388	4.448	-1.790
1.386	4.448	-1.785
1.381	4.448	-1.773
1.380	4.448	-1.768
1.375	4.448	-1.756
1.373	4.448	-1.751
1.368	4.448	-1.739
1.367	4.448	-1.734
1.362	4.448	-1.722
1.360	4.448	-1.717
1.356	4.448	-1.705
1.354	4.448	-1.700
1.349	4.448	-1.688
1.348	4.448	-1.683
1.343	4.448	-1.671
1.341	4.448	-1.667
1.337	4.448	-1.654
1.335	4.448	-1.650
1.330	4.448	-1.638
1.328	4.448	-1.633
1.324	4.448	-1.621
1.322	4.448	-1.616
1.317	4.448	-1.604
1.316	4.448	-1.599
1.311	4.448	-1.587
1.309	4.448	-1.582
1.304	4.448	-1.570
1.303	4.448	-1.566
1.298	4.448	-1.553
1.296	4.448	-1.549
1.291	4.448	-1.537
1.290	4.448	-1.532
1.284	4.448	-1.518
1.282	4.448	-1.512
1.276	4.448	-1.498
1.274	4.448	-1.493
1.269	4.448	-1.478
1.267	4.448	-1.473
1.261	4.448	-1.459
1.259	4.448	-1.453
1.253	4.448	-1.439
1.251	4.448	-1.434

1.245	4.448	-1.420
1.243	4.448	-1.414
1.238	4.448	-1.400
1.236	4.448	-1.394
1.230	4.448	-1.380
1.228	4.448	-1.375
1.223	4.448	-1.362
1.221	4.448	-1.357
1.216	4.448	-1.344
1.214	4.448	-1.339
1.209	4.448	-1.327
1.207	4.448	-1.322
1.201	4.448	-1.309
1.200	4.448	-1.304
1.194	4.448	-1.292
1.193	4.448	-1.287
1.187	4.448	-1.274
1.186	4.448	-1.269
1.180	4.448	-1.257
1.179	4.448	-1.252
1.173	4.448	-1.240
1.172	4.448	-1.235
1.166	4.448	-1.222
1.164	4.448	-1.217
1.159	4.448	-1.205
1.157	4.448	-1.200
1.152	4.448	-1.188
1.150	4.448	-1.183
1.145	4.448	-1.170
1.143	4.448	-1.166
1.137	4.448	-1.150
1.134	4.448	-1.144
1.128	4.448	-1.128
1.125	4.448	-1.122
1.119	4.448	-1.107
1.116	4.448	-1.101
1.110	4.448	-1.085
1.107	4.448	-1.079
1.101	4.448	-1.064
1.098	4.448	-1.058
1.092	4.448	-1.042
1.089	4.448	-1.036
1.082	4.448	-1.021

1.080	4.448	-1.015
1.073	4.448	-0.999
1.071	4.448	-0.993
1.064	4.448	-0.978
1.062	4.448	-0.972
1.055	4.448	-0.956
1.052	4.448	-0.950
1.046	4.448	-0.935
1.043	4.448	-0.929
1.036	4.448	-0.914
1.034	4.448	-0.908
1.027	4.448	-0.892
1.025	4.448	-0.886
1.018	4.448	-0.871
1.015	4.448	-0.865
1.008	4.448	-0.850
1.006	4.448	-0.844
0.999	4.448	-0.828
0.997	4.448	-0.822
0.991	4.448	-0.810
0.989	4.448	-0.805
0.983	4.448	-0.792
0.981	4.448	-0.787
0.974	4.448	-0.773
0.972	4.448	-0.768
0.966	4.448	-0.754
0.964	4.448	-0.748
0.957	4.448	-0.735
0.955	4.448	-0.729
0.948	4.448	-0.715
0.946	4.448	-0.710
0.940	4.448	-0.696
0.937	4.448	-0.691
0.931	4.448	-0.677
0.929	4.448	-0.672
0.922	4.448	-0.658
0.920	4.448	-0.653
0.913	4.448	-0.639
0.911	4.448	-0.634
0.904	4.448	-0.620
0.902	4.448	-0.615
0.895	4.448	-0.601
0.893	4.448	-0.596

0.887	4.448	-0.582
0.884	4.448	-0.577
0.878	4.448	-0.563
0.875	4.448	-0.558
0.869	4.448	-0.544
0.866	4.448	-0.539
0.860	4.448	-0.525
0.857	4.448	-0.520
0.850	4.448	-0.506
0.848	4.448	-0.501
0.841	4.448	-0.487
0.839	4.448	-0.482
0.830	4.448	-0.465
0.827	4.448	-0.458
0.818	4.448	-0.441
0.815	4.448	-0.434
0.807	4.448	-0.417
0.803	4.448	-0.410
0.795	4.448	-0.393
0.792	4.448	-0.386
0.783	4.448	-0.370
0.780	4.448	-0.363
0.772	4.448	-0.347
0.769	4.448	-0.341
0.760	4.448	-0.324
0.757	4.448	-0.318
0.749	4.448	-0.302
0.746	4.448	-0.296
0.737	4.448	-0.280
0.734	4.448	-0.273
0.726	4.448	-0.257
0.723	4.448	-0.251
0.714	4.448	-0.235
0.711	4.448	-0.229
0.703	4.448	-0.213
0.699	4.448	-0.207
0.691	4.448	-0.191
0.688	4.448	-0.184
0.679	4.448	-0.169
0.676	4.448	-0.162
0.667	4.448	-0.147
0.664	4.448	-0.140
0.655	4.448	-0.125

0.652	4.448	-0.118
0.643	4.448	-0.103
0.640	4.448	-0.097
0.631	4.448	-0.081
0.628	4.448	-0.075
0.619	4.448	-0.059
0.616	4.448	-0.053
0.607	4.448	-0.037
0.603	4.448	-0.031
0.594	4.448	-0.016
0.591	4.448	-0.010
0.582	4.448	0.006
0.579	4.448	0.012
0.570	4.448	0.028
0.566	4.448	0.034
0.557	4.448	0.049
0.554	4.448	0.055
0.545	4.448	0.071
0.541	4.448	0.077
0.532	4.448	0.092
0.529	4.448	0.098
0.519	4.448	0.113
0.516	4.448	0.119
0.507	4.448	0.134
0.503	4.448	0.140
0.494	4.448	0.156
0.490	4.448	0.162
0.481	4.448	0.177
0.477	4.448	0.183
0.468	4.448	0.198
0.464	4.448	0.204
0.455	4.448	0.219
0.451	4.448	0.225
0.442	4.448	0.240
0.438	4.448	0.246
0.428	4.448	0.261
0.425	4.448	0.266
0.415	4.448	0.281
0.411	4.448	0.287
0.402	4.448	0.302
0.398	4.448	0.308
0.388	4.448	0.322
0.385	4.448	0.328

0.375	4.448	0.342
0.372	4.448	0.348
0.362	4.448	0.362
0.358	4.448	0.368
0.349	4.448	0.382
0.345	4.448	0.388
0.335	4.448	0.403
0.331	4.448	0.409
0.320	4.448	0.424
0.317	4.448	0.429
0.306	4.448	0.444
0.302	4.448	0.450
0.292	4.448	0.465
0.288	4.448	0.471
0.278	4.448	0.485
0.274	4.448	0.491
0.263	4.448	0.506
0.259	4.448	0.512
0.248	4.448	0.526
0.245	4.448	0.532
0.234	4.448	0.547
0.230	4.448	0.552
0.219	4.448	0.567
0.215	4.448	0.573
0.204	4.448	0.587
0.200	4.448	0.593
0.189	4.448	0.607
0.185	4.448	0.613
0.174	4.448	0.627
0.170	4.448	0.633
0.159	4.448	0.647
0.155	4.448	0.653
0.144	4.448	0.667
0.140	4.448	0.673
0.129	4.448	0.687
0.125	4.448	0.693
0.113	4.448	0.707
0.109	4.448	0.713
0.098	4.448	0.727
0.094	4.448	0.733
0.082	4.448	0.747
0.078	4.448	0.752
0.067	4.448	0.767

0.063	4.448	0.772
0.051	4.448	0.786
0.047	4.448	0.792
0.035	4.448	0.806
0.031	4.448	0.811
0.019	4.448	0.826
0.015	4.448	0.831
-0.008	4.448	0.859
-0.017	4.448	0.870
-0.041	4.448	0.898
-0.049	4.448	0.909
-0.073	4.448	0.937
-0.082	4.448	0.948
-0.106	4.448	0.975
-0.115	4.448	0.986
-0.139	4.448	1.014
-0.148	4.448	1.024
-0.168	4.448	1.047
-0.176	4.448	1.056
-0.196	4.448	1.079
-0.204	4.448	1.088
-0.230	4.448	1.117
-0.240	4.448	1.128
-0.266	4.448	1.156
-0.276	4.448	1.168
-0.303	4.448	1.196
-0.313	4.448	1.207
-0.339	4.448	1.236
-0.349	4.448	1.247
-0.376	4.448	1.275
-0.386	4.448	1.286
-0.414	4.448	1.314
-0.424	4.448	1.325
-0.451	4.448	1.353
-0.461	4.448	1.364
-0.489	4.448	1.392
-0.499	4.448	1.403
-0.528	4.448	1.432
-0.539	4.448	1.444
-0.569	4.448	1.473
-0.580	4.448	1.484
-0.609	4.448	1.514
-0.620	4.448	1.525

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-0.661	4.448	1.565
-0.691	4.448	1.594
-0.702	4.448	1.605
-0.732	4.448	1.634
-0.743	4.448	1.645
-0.804	4.448	1.703
-0.827	4.448	1.725
-0.830	4.448	1.728
-0.830	4.448	1.729
-0.889	4.448	1.784
-0.911	4.448	1.805
-0.971	4.448	1.860
-0.993	4.448	1.881
-1.053	4.448	1.936
-1.076	4.448	1.957
-1.136	4.448	2.011
-1.159	4.448	2.032
-1.220	4.448	2.086
-1.243	4.448	2.107
-1.305	4.448	2.161
-1.328	4.448	2.182
-1.390	4.448	2.236
-1.413	4.448	2.256
-1.476	4.448	2.310
-1.500	4.448	2.330
-1.541	4.448	2.365
-1.556	4.448	2.379
-1.671	4.448	2.475
-1.714	4.448	2.510
-1.830	4.448	2.606
-1.873	4.448	2.642
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-2.161	4.448	2.873
-2.197	4.448	2.901
-2.215	4.448	2.915
-2.264	4.448	2.953
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-2.359	4.448	2.973
-2.360	4.448	2.971
-2.364	4.448	2.965
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-2.371	4.448	2.950
-2.371	4.448	2.945
-2.371	4.448	2.933
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-2.357	4.448	2.897
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-2.323	4.448	2.848
-2.315	4.448	2.838
-2.294	4.448	2.811
-2.515	6.118	2.716
-2.512	6.118	2.712
-2.505	6.118	2.703
-2.496	6.118	2.693
-2.487	6.118	2.681
-2.478	6.118	2.671
-2.469	6.118	2.659
-2.460	6.118	2.648
-2.451	6.118	2.636
-2.442	6.118	2.626
-2.433	6.118	2.614
-2.424	6.118	2.604
-2.414	6.118	2.592
-2.406	6.118	2.581
-2.396	6.118	2.570
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-2.360	6.118	2.525
-2.351	6.118	2.514
-2.341	6.118	2.502
-2.332	6.118	2.492
-2.323	6.118	2.480
-2.314	6.118	2.470
-2.304	6.118	2.458
-2.296	6.118	2.447
-2.286	6.118	2.435
-2.277	6.118	2.425
-2.267	6.118	2.413
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-2.248	6.118	2.389
-2.239	6.118	2.379
-2.229	6.118	2.366
-2.219	6.118	2.355
-2.209	6.118	2.343
-2.200	6.118	2.332
-2.190	6.118	2.320
-2.181	6.118	2.309
-2.171	6.118	2.296
-2.161	6.118	2.286
-2.151	6.118	2.273
-2.142	6.118	2.262
-2.132	6.118	2.250
-2.122	6.118	2.239
-2.112	6.118	2.227
-2.103	6.118	2.216
-2.093	6.118	2.204
-2.083	6.118	2.193
-2.073	6.118	2.180
-2.064	6.118	2.170
-2.054	6.118	2.157
-2.045	6.118	2.146
-2.034	6.118	2.134
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-2.015	6.118	2.111
-2.006	6.118	2.100
-1.995	6.118	2.088
-1.986	6.118	2.077
-1.976	6.118	2.065

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-1.956	6.118	2.042
-1.949	6.118	2.033
-1.940	6.118	2.023
-1.930	6.118	2.011
-1.918	6.118	1.997
-1.907	6.118	1.984
-1.895	6.118	1.970
-1.885	6.118	1.958
-1.873	6.118	1.944
-1.862	6.118	1.931
-1.850	6.118	1.917
-1.840	6.118	1.905
-1.828	6.118	1.891
-1.817	6.118	1.878
-1.805	6.118	1.864
-1.795	6.118	1.852
-1.783	6.118	1.838
-1.772	6.118	1.826
-1.760	6.118	1.812
-1.750	6.118	1.799
-1.738	6.118	1.785
-1.727	6.118	1.773
-1.716	6.118	1.759
-1.705	6.118	1.747
-1.693	6.118	1.733
-1.682	6.118	1.720
-1.671	6.118	1.706
-1.660	6.118	1.694
-1.648	6.118	1.680
-1.638	6.118	1.668
-1.626	6.118	1.654
-1.615	6.118	1.642
-1.603	6.118	1.628
-1.593	6.118	1.616
-1.581	6.118	1.602
-1.568	6.118	1.586
-1.553	6.118	1.569
-1.540	6.118	1.554
-1.525	6.118	1.537
-1.512	6.118	1.521
-1.497	6.118	1.504
-1.484	6.118	1.489

-1.470	6.118	1.472
-1.456	6.118	1.456
-1.442	6.118	1.439
-1.429	6.118	1.424
-1.414	6.118	1.407
-1.401	6.118	1.392
-1.386	6.118	1.374
-1.373	6.118	1.359
-1.359	6.118	1.342
-1.358	6.118	1.341
-1.358	6.118	1.341
-1.350	6.118	1.332
-1.341	6.118	1.322
-1.334	6.118	1.313
-1.325	6.118	1.303
-1.317	6.118	1.294
-1.309	6.118	1.284
-1.301	6.118	1.275
-1.293	6.118	1.265
-1.285	6.118	1.256
-1.277	6.118	1.246
-1.269	6.118	1.237
-1.260	6.118	1.227
-1.253	6.118	1.219
-1.244	6.118	1.208
-1.236	6.118	1.200
-1.228	6.118	1.190
-1.220	6.118	1.181
-1.212	6.118	1.171
-1.204	6.118	1.162
-1.196	6.118	1.152
-1.188	6.118	1.143
-1.179	6.118	1.133
-1.172	6.118	1.124
-1.163	6.118	1.114
-1.156	6.118	1.105
-1.147	6.118	1.095
-1.139	6.118	1.086
-1.131	6.118	1.076
-1.123	6.118	1.067
-1.115	6.118	1.057
-1.107	6.118	1.048
-1.098	6.118	1.038

-1.088	6.118	1.026
-1.076	6.118	1.012
-1.067	6.118	1.002
-1.058	6.118	0.990
-1.049	6.118	0.980
-1.039	6.118	0.968
-1.030	6.118	0.958
-1.020	6.118	0.947
-1.012	6.118	0.936
-1.002	6.118	0.925
-0.993	6.118	0.915
-0.983	6.118	0.903
-0.974	6.118	0.893
-0.965	6.118	0.881
-0.956	6.118	0.871
-0.946	6.118	0.859
-0.937	6.118	0.849
-0.928	6.118	0.837
-0.919	6.118	0.827
-0.909	6.118	0.816
-0.900	6.118	0.805
-0.890	6.118	0.794
-0.882	6.118	0.784
-0.872	6.118	0.772
-0.863	6.118	0.762
-0.853	6.118	0.750
-0.844	6.118	0.740
-0.835	6.118	0.728
-0.826	6.118	0.718
-0.816	6.118	0.706
-0.807	6.118	0.696
-0.798	6.118	0.684
-0.789	6.118	0.674
-0.779	6.118	0.662
-0.773	6.118	0.656
-0.766	6.118	0.647
-0.760	6.118	0.640
-0.753	6.118	0.632
-0.747	6.118	0.625
-0.741	6.118	0.617
-0.734	6.118	0.610
-0.728	6.118	0.602
-0.720	6.118	0.593

-0.711	6.118	0.583
-0.703	6.118	0.573
-0.694	6.118	0.563
-0.686	6.118	0.554
-0.678	6.118	0.543
-0.670	6.118	0.534
-0.661	6.118	0.523
-0.653	6.118	0.514
-0.644	6.118	0.504
-0.636	6.118	0.495
-0.627	6.118	0.484
-0.619	6.118	0.475
-0.611	6.118	0.464
-0.603	6.118	0.455
-0.594	6.118	0.444
-0.586	6.118	0.435
-0.577	6.118	0.425
-0.569	6.118	0.416
-0.560	6.118	0.405
-0.552	6.118	0.396
-0.544	6.118	0.385
-0.536	6.118	0.376
-0.527	6.118	0.365
-0.519	6.118	0.356
-0.510	6.118	0.346
-0.502	6.118	0.337
-0.494	6.118	0.326
-0.485	6.118	0.317
-0.477	6.118	0.306
-0.469	6.118	0.297
-0.460	6.118	0.286
-0.452	6.118	0.277
-0.443	6.118	0.267
-0.435	6.118	0.258
-0.427	6.118	0.247
-0.419	6.118	0.238
-0.410	6.118	0.227
-0.402	6.118	0.218
-0.394	6.118	0.208
-0.386	6.118	0.199
-0.377	6.118	0.188
-0.369	6.118	0.179
-0.360	6.118	0.168

-0.352	6.118	0.159
-0.344	6.118	0.149
-0.336	6.118	0.139
-0.327	6.118	0.129
-0.319	6.118	0.120
-0.310	6.118	0.109
-0.302	6.118	0.100
-0.294	6.118	0.089
-0.286	6.118	0.080
-0.277	6.118	0.070
-0.269	6.118	0.061
-0.261	6.118	0.050
-0.253	6.118	0.041
-0.244	6.118	0.030
-0.236	6.118	0.021
-0.228	6.118	0.010
-0.220	6.118	0.001
-0.211	6.118	-0.010
-0.203	6.118	-0.019
-0.194	6.118	-0.029
-0.188	6.118	-0.037
-0.181	6.118	-0.045
-0.175	6.118	-0.052
-0.168	6.118	-0.061
-0.162	6.118	-0.068
-0.156	6.118	-0.076
-0.149	6.118	-0.083
-0.143	6.118	-0.092
-0.135	6.118	-0.101
-0.127	6.118	-0.111
-0.119	6.118	-0.120
-0.110	6.118	-0.131
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-0.094	6.118	-0.150
-0.087	6.118	-0.159
-0.078	6.118	-0.170
-0.071	6.118	-0.179
-0.062	6.118	-0.189
-0.055	6.118	-0.198
-0.046	6.118	-0.209
-0.039	6.118	-0.218
-0.030	6.118	-0.228
-0.023	6.118	-0.237

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0.041	6.118	-0.315
0.050	6.118	-0.326
0.057	6.118	-0.335
0.066	6.118	-0.345
0.073	6.118	-0.355
0.082	6.118	-0.365
0.089	6.118	-0.374
0.098	6.118	-0.385
0.105	6.118	-0.394
0.113	6.118	-0.404
0.121	6.118	-0.414
0.130	6.118	-0.425
0.138	6.118	-0.434
0.147	6.118	-0.446
0.155	6.118	-0.455
0.164	6.118	-0.466
0.172	6.118	-0.476
0.180	6.118	-0.487
0.188	6.118	-0.496
0.197	6.118	-0.507
0.205	6.118	-0.517
0.214	6.118	-0.528
0.222	6.118	-0.538
0.230	6.118	-0.549
0.238	6.118	-0.558
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0.255	6.118	-0.579
0.264	6.118	-0.590
0.271	6.118	-0.600
0.280	6.118	-0.611
0.288	6.118	-0.620
0.297	6.118	-0.631
0.305	6.118	-0.641
0.313	6.118	-0.652
0.321	6.118	-0.662
0.330	6.118	-0.673

0.338	6.118	-0.682
0.347	6.118	-0.693
0.354	6.118	-0.703
0.363	6.118	-0.714
0.371	6.118	-0.724
0.380	6.118	-0.735
0.389	6.118	-0.747
0.400	6.118	-0.760
0.410	6.118	-0.772
0.420	6.118	-0.786
0.427	6.118	-0.794
0.435	6.118	-0.803
0.441	6.118	-0.812
0.449	6.118	-0.821
0.455	6.118	-0.829
0.463	6.118	-0.839
0.469	6.118	-0.847
0.477	6.118	-0.856
0.483	6.118	-0.864
0.491	6.118	-0.874
0.497	6.118	-0.882
0.505	6.118	-0.891
0.511	6.118	-0.899
0.519	6.118	-0.909
0.525	6.118	-0.917
0.533	6.118	-0.926
0.539	6.118	-0.934
0.547	6.118	-0.944
0.553	6.118	-0.952
0.561	6.118	-0.961
0.567	6.118	-0.970
0.575	6.118	-0.979
0.581	6.118	-0.987
0.589	6.118	-0.997
0.595	6.118	-1.005
0.603	6.118	-1.014
0.609	6.118	-1.022
0.617	6.118	-1.032
0.623	6.118	-1.040
0.631	6.118	-1.049
0.637	6.118	-1.058
0.645	6.118	-1.067
0.653	6.118	-1.078

0.663	6.118	-1.090
0.671	6.118	-1.100
0.681	6.118	-1.112
0.689	6.118	-1.123
0.699	6.118	-1.135
0.707	6.118	-1.145
0.717	6.118	-1.158
0.726	6.118	-1.168
0.735	6.118	-1.180
0.744	6.118	-1.191
0.753	6.118	-1.203
0.762	6.118	-1.213
0.771	6.118	-1.226
0.780	6.118	-1.236
0.789	6.118	-1.248
0.798	6.118	-1.259
0.807	6.118	-1.271
0.816	6.118	-1.281
0.826	6.118	-1.294
0.834	6.118	-1.304
0.844	6.118	-1.316
0.852	6.118	-1.327
0.862	6.118	-1.339
0.870	6.118	-1.349
0.880	6.118	-1.362
0.889	6.118	-1.372
0.898	6.118	-1.384
0.907	6.118	-1.395
0.916	6.118	-1.407
0.925	6.118	-1.417
0.935	6.118	-1.430
0.945	6.118	-1.442
0.957	6.118	-1.457
0.967	6.118	-1.470
0.979	6.118	-1.485
0.991	6.118	-1.500
1.005	6.118	-1.518
1.018	6.118	-1.533
1.032	6.118	-1.550
1.044	6.118	-1.566
1.058	6.118	-1.583
1.071	6.118	-1.599
1.085	6.118	-1.616

1.098	6.118	-1.631
1.111	6.118	-1.649
1.124	6.118	-1.664
1.138	6.118	-1.682
1.151	6.118	-1.697
1.164	6.118	-1.714
1.177	6.118	-1.729
1.191	6.118	-1.747
1.200	6.118	-1.758
1.211	6.118	-1.771
1.220	6.118	-1.783
1.231	6.118	-1.796
1.240	6.118	-1.807
1.251	6.118	-1.820
1.260	6.118	-1.832
1.271	6.118	-1.845
1.280	6.118	-1.856
1.291	6.118	-1.869
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1.311	6.118	-1.893
1.320	6.118	-1.905
1.331	6.118	-1.918
1.340	6.118	-1.929
1.351	6.118	-1.942
1.360	6.118	-1.953
1.371	6.118	-1.966
1.380	6.118	-1.978
1.391	6.118	-1.991
1.400	6.118	-2.002
1.411	6.118	-2.015
1.420	6.118	-2.026
1.431	6.118	-2.039
1.440	6.118	-2.050
1.451	6.118	-2.063
1.460	6.118	-2.074
1.471	6.118	-2.087
1.480	6.118	-2.099
1.491	6.118	-2.112
1.501	6.118	-2.123
1.511	6.118	-2.136
1.522	6.118	-2.148
1.533	6.118	-2.162
1.544	6.118	-2.174

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1.588	6.118	-2.227
1.595	6.118	-2.236
1.604	6.118	-2.247
1.611	6.118	-2.256
1.620	6.118	-2.266
1.628	6.118	-2.275
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1.644	6.118	-2.295
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1.660	6.118	-2.314
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1.677	6.118	-2.333
1.685	6.118	-2.344
1.693	6.118	-2.353
1.702	6.118	-2.363
1.710	6.118	-2.372
1.718	6.118	-2.383
1.726	6.118	-2.392
1.735	6.118	-2.402
1.743	6.118	-2.411
1.751	6.118	-2.422
1.759	6.118	-2.431
1.768	6.118	-2.441
1.776	6.118	-2.450
1.785	6.118	-2.461
1.792	6.118	-2.470
1.801	6.118	-2.481
1.809	6.118	-2.490
1.818	6.118	-2.500
1.827	6.118	-2.511
1.837	6.118	-2.523
1.847	6.118	-2.534
1.857	6.118	-2.546
1.866	6.118	-2.557
1.877	6.118	-2.569
1.886	6.118	-2.580
1.896	6.118	-2.592
1.906	6.118	-2.603
1.916	6.118	-2.615

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1.936	6.118	-2.638
1.945	6.118	-2.649
1.956	6.118	-2.661
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2.005	6.118	-2.718
2.015	6.118	-2.730
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2.055	6.118	-2.776
2.065	6.118	-2.787
2.075	6.118	-2.800
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2.089	6.118	-2.815
2.089	6.118	-2.815
2.097	6.118	-2.824
2.109	6.118	-2.839
2.122	6.118	-2.855
2.132	6.118	-2.867
2.143	6.118	-2.880
2.153	6.118	-2.891
2.164	6.118	-2.903
2.177	6.118	-2.915
2.178	6.118	-2.915
2.190	6.118	-2.924
2.190	6.118	-2.924
2.197	6.118	-2.928
2.198	6.118	-2.928
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2.208	6.118	-2.932
2.216	6.118	-2.934
2.217	6.118	-2.934
2.225	6.118	-2.933
2.225	6.118	-2.933
2.232	6.118	-2.930
2.232	6.118	-2.930
2.234	6.118	-2.928
2.235	6.118	-2.928
2.238	6.118	-2.925

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2.241	6.118	-2.920
2.241	6.118	-2.920
2.243	6.118	-2.915
2.243	6.118	-2.914
2.244	6.118	-2.909
2.245	6.118	-2.908
2.244	6.118	-2.896
2.244	6.118	-2.895
2.241	6.118	-2.879
2.241	6.118	-2.878
2.238	6.118	-2.870
2.238	6.118	-2.869
2.234	6.118	-2.860
2.234	6.118	-2.860
2.229	6.118	-2.848
2.228	6.118	-2.848
2.222	6.118	-2.835
2.222	6.118	-2.835
2.216	6.118	-2.823
2.216	6.118	-2.822
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2.209	6.118	-2.809
2.203	6.118	-2.800
2.197	6.118	-2.789
2.193	6.118	-2.781
2.188	6.118	-2.772
2.183	6.118	-2.762
2.180	6.118	-2.756
2.178	6.118	-2.752
2.178	6.118	-2.751
2.172	6.118	-2.739
2.171	6.118	-2.739
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2.165	6.118	-2.726
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2.158	6.118	-2.714
2.152	6.118	-2.702
2.151	6.118	-2.702
2.145	6.118	-2.690
2.145	6.118	-2.689
2.139	6.118	-2.677
2.138	6.118	-2.677

2.132	6.118	-2.665
2.132	6.118	-2.664
2.126	6.118	-2.652
2.125	6.118	-2.652
2.119	6.118	-2.640
2.119	6.118	-2.639
2.112	6.118	-2.627
2.112	6.118	-2.626
2.106	6.118	-2.615
2.105	6.118	-2.614
2.099	6.118	-2.602
2.099	6.118	-2.601
2.093	6.118	-2.589
2.092	6.118	-2.589
2.086	6.118	-2.577
2.086	6.118	-2.576
2.079	6.118	-2.564
2.079	6.118	-2.563
2.073	6.118	-2.551
2.072	6.118	-2.551
2.066	6.118	-2.539
2.066	6.118	-2.538
2.060	6.118	-2.526
2.059	6.118	-2.525
2.053	6.118	-2.513
2.053	6.118	-2.513
2.046	6.118	-2.501
2.046	6.118	-2.500
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2.033	6.118	-2.474
2.027	6.118	-2.462
2.026	6.118	-2.462
2.020	6.118	-2.450
2.020	6.118	-2.449
2.013	6.118	-2.437
2.013	6.118	-2.436
2.007	6.118	-2.424
2.006	6.118	-2.424
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1.951	6.118	-2.319
1.946	6.118	-2.309
1.940	6.118	-2.298
1.935	6.118	-2.288
1.929	6.118	-2.277
1.924	6.118	-2.267
1.918	6.118	-2.256
1.913	6.118	-2.246
1.907	6.118	-2.235
1.902	6.118	-2.225
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1.891	6.118	-2.205
1.885	6.118	-2.194
1.880	6.118	-2.184
1.874	6.118	-2.173
1.868	6.118	-2.163
1.863	6.118	-2.152
1.857	6.118	-2.142
1.852	6.118	-2.131
1.846	6.118	-2.122
1.841	6.118	-2.111
1.835	6.118	-2.101
1.830	6.118	-2.090
1.825	6.118	-2.082
1.821	6.118	-2.073
1.817	6.118	-2.066
1.812	6.118	-2.057
1.808	6.118	-2.049
1.803	6.118	-2.040
1.799	6.118	-2.033
1.794	6.118	-2.024
1.790	6.118	-2.016
1.785	6.118	-2.007
1.781	6.118	-1.999
1.776	6.118	-1.991
1.772	6.118	-1.983
1.767	6.118	-1.974

1.763	6.118	-1.966
1.758	6.118	-1.958
1.754	6.118	-1.950
1.750	6.118	-1.941
1.745	6.118	-1.934
1.741	6.118	-1.925
1.736	6.118	-1.917
1.732	6.118	-1.908
1.727	6.118	-1.901
1.723	6.118	-1.892
1.719	6.118	-1.884
1.714	6.118	-1.876
1.710	6.118	-1.868
1.705	6.118	-1.859
1.701	6.118	-1.852
1.696	6.118	-1.843
1.692	6.118	-1.835
1.687	6.118	-1.827
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1.678	6.118	-1.811
1.674	6.118	-1.803
1.670	6.118	-1.794
1.665	6.118	-1.787
1.661	6.118	-1.778
1.656	6.118	-1.770
1.652	6.118	-1.762
1.647	6.118	-1.754
1.643	6.118	-1.746
1.638	6.118	-1.738
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1.630	6.118	-1.722
1.625	6.118	-1.713
1.621	6.118	-1.706
1.616	6.118	-1.697
1.612	6.118	-1.690
1.607	6.118	-1.681
1.603	6.118	-1.673
1.598	6.118	-1.665
1.594	6.118	-1.657
1.589	6.118	-1.649
1.585	6.118	-1.641
1.580	6.118	-1.633
1.576	6.118	-1.625

1.571	6.118	-1.617
1.567	6.118	-1.609
1.563	6.118	-1.601
1.558	6.118	-1.593
1.554	6.118	-1.585
1.549	6.118	-1.577
1.545	6.118	-1.569
1.540	6.118	-1.561
1.536	6.118	-1.553
1.531	6.118	-1.545
1.527	6.118	-1.537
1.522	6.118	-1.529
1.518	6.118	-1.521
1.510	6.118	-1.505
1.509	6.118	-1.505
1.501	6.118	-1.490
1.500	6.118	-1.489
1.492	6.118	-1.474
1.491	6.118	-1.473
1.483	6.118	-1.458
1.482	6.118	-1.457
1.474	6.118	-1.442
1.473	6.118	-1.441
1.468	6.118	-1.432
1.462	6.118	-1.422
1.457	6.118	-1.414
1.452	6.118	-1.404
1.447	6.118	-1.395
1.441	6.118	-1.385
1.436	6.118	-1.377
1.431	6.118	-1.367
1.426	6.118	-1.358
1.420	6.118	-1.348
1.415	6.118	-1.339
1.410	6.118	-1.330
1.404	6.118	-1.321
1.399	6.118	-1.311
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1.388	6.118	-1.293
1.384	6.118	-1.285
1.379	6.118	-1.276
1.374	6.118	-1.268
1.369	6.118	-1.259

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1.360	6.118	-1.243
1.355	6.118	-1.235
1.350	6.118	-1.226
1.346	6.118	-1.218
1.341	6.118	-1.210
1.336	6.118	-1.202
1.331	6.118	-1.193
1.327	6.118	-1.186
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1.317	6.118	-1.170
1.312	6.118	-1.161
1.308	6.118	-1.153
1.303	6.118	-1.145
1.298	6.118	-1.137
1.293	6.118	-1.128
1.289	6.118	-1.121
1.284	6.118	-1.112
1.279	6.118	-1.105
1.274	6.118	-1.096
1.269	6.118	-1.086
1.263	6.118	-1.076
1.257	6.118	-1.066
1.251	6.118	-1.055
1.245	6.118	-1.046
1.239	6.118	-1.035
1.233	6.118	-1.026
1.227	6.118	-1.015
1.221	6.118	-1.006
1.215	6.118	-0.995
1.209	6.118	-0.985
1.203	6.118	-0.975
1.197	6.118	-0.965
1.191	6.118	-0.955
1.185	6.118	-0.945
1.179	6.118	-0.935
1.173	6.118	-0.925
1.167	6.118	-0.915
1.161	6.118	-0.905
1.155	6.118	-0.895
1.149	6.118	-0.885
1.143	6.118	-0.875
1.137	6.118	-0.865

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1.119	6.118	-0.835
1.113	6.118	-0.825
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1.029	6.118	-0.688
1.023	6.118	-0.680
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1.012	6.118	-0.662
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0.933	6.118	-0.537
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0.722	6.118	-0.222
0.715	6.118	-0.213
0.707	6.118	-0.202
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0.693	6.118	-0.181
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0.590	6.118	-0.040
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0.545	6.118	0.020
0.537	6.118	0.030
0.530	6.118	0.040
0.522	6.118	0.049
0.514	6.118	0.060
0.507	6.118	0.069
0.499	6.118	0.080
0.492	6.118	0.089
0.484	6.118	0.099
0.476	6.118	0.109
0.468	6.118	0.119
0.461	6.118	0.128
0.453	6.118	0.139
0.445	6.118	0.148
0.437	6.118	0.158
0.430	6.118	0.168
0.422	6.118	0.178
0.414	6.118	0.187
0.406	6.118	0.197
0.398	6.118	0.206
0.390	6.118	0.217
0.383	6.118	0.226
0.374	6.118	0.236
0.367	6.118	0.245
0.359	6.118	0.256
0.351	6.118	0.265
0.343	6.118	0.275
0.335	6.118	0.284
0.327	6.118	0.294
0.319	6.118	0.302
0.311	6.118	0.312
0.304	6.118	0.321
0.296	6.118	0.331
0.288	6.118	0.340
0.280	6.118	0.350
0.272	6.118	0.359
0.263	6.118	0.369
0.255	6.118	0.378
0.246	6.118	0.388

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0.230	6.118	0.408
0.222	6.118	0.417
0.213	6.118	0.427
0.205	6.118	0.436
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0.179	6.118	0.465
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0.162	6.118	0.484
0.154	6.118	0.493
0.145	6.118	0.503
0.137	6.118	0.512
0.128	6.118	0.522
0.119	6.118	0.531
0.110	6.118	0.541
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0.093	6.118	0.560
0.085	6.118	0.569
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-0.012	6.118	0.673
-0.021	6.118	0.682
-0.030	6.118	0.692
-0.039	6.118	0.701
-0.048	6.118	0.711
-0.057	6.118	0.719
-0.066	6.118	0.729
-0.075	6.118	0.738
-0.084	6.118	0.748
-0.093	6.118	0.757
-0.102	6.118	0.767
-0.111	6.118	0.775
-0.120	6.118	0.785
-0.129	6.118	0.794

-0.138	6.118	0.804
-0.147	6.118	0.812
-0.157	6.118	0.822
-0.166	6.118	0.831
-0.175	6.118	0.841
-0.184	6.118	0.849
-0.193	6.118	0.859
-0.202	6.118	0.868
-0.212	6.118	0.878
-0.221	6.118	0.886
-0.230	6.118	0.896
-0.239	6.118	0.905
-0.249	6.118	0.915
-0.258	6.118	0.923
-0.267	6.118	0.933
-0.276	6.118	0.942
-0.286	6.118	0.951
-0.301	6.118	0.966
-0.317	6.118	0.982
-0.332	6.118	0.996
-0.348	6.118	1.012
-0.368	6.118	1.030
-0.388	6.118	1.051
-0.407	6.118	1.069
-0.428	6.118	1.089
-0.448	6.118	1.107
-0.468	6.118	1.127
-0.488	6.118	1.145
-0.509	6.118	1.166
-0.528	6.118	1.184
-0.549	6.118	1.204
-0.569	6.118	1.222
-0.590	6.118	1.242
-0.610	6.118	1.260
-0.631	6.118	1.280
-0.651	6.118	1.298
-0.672	6.118	1.317
-0.693	6.118	1.336
-0.715	6.118	1.357
-0.736	6.118	1.376
-0.759	6.118	1.397
-0.780	6.118	1.415
-0.802	6.118	1.436

-0.823	6.118	1.455
-0.846	6.118	1.475
-0.867	6.118	1.494
-0.889	6.118	1.515
-0.911	6.118	1.533
-0.933	6.118	1.554
-0.954	6.118	1.572
-0.977	6.118	1.593
-0.998	6.118	1.611
-1.021	6.118	1.631
-1.025	6.118	1.635
-1.025	6.118	1.635
-1.046	6.118	1.653
-1.068	6.118	1.672
-1.088	6.118	1.690
-1.110	6.118	1.709
-1.131	6.118	1.727
-1.153	6.118	1.747
-1.174	6.118	1.764
-1.196	6.118	1.784
-1.227	6.118	1.811
-1.238	6.118	1.821
-1.270	6.118	1.848
-1.281	6.118	1.858
-1.313	6.118	1.885
-1.325	6.118	1.894
-1.357	6.118	1.922
-1.368	6.118	1.931
-1.400	6.118	1.958
-1.411	6.118	1.968
-1.444	6.118	1.995
-1.455	6.118	2.005
-1.487	6.118	2.032
-1.499	6.118	2.041
-1.531	6.118	2.068
-1.542	6.118	2.078
-1.575	6.118	2.105
-1.587	6.118	2.115
-1.619	6.118	2.142
-1.631	6.118	2.151
-1.664	6.118	2.178
-1.675	6.118	2.188
-1.709	6.118	2.215

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-1.764	6.118	2.260
-1.779	6.118	2.273
-1.809	6.118	2.297
-1.819	6.118	2.306
-1.849	6.118	2.330
-1.860	6.118	2.338
-1.890	6.118	2.363
-1.901	6.118	2.371
-1.931	6.118	2.395
-1.941	6.118	2.404
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-2.023	6.118	2.469
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-2.106	6.118	2.535
-2.142	6.118	2.563
-2.154	6.118	2.573
-2.190	6.118	2.601
-2.203	6.118	2.611
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-2.301	6.118	2.687
-2.378	6.118	2.747
-2.440	6.118	2.794
-2.462	6.118	2.811
-2.505	6.118	2.844
-2.516	6.118	2.851
-2.526	6.118	2.858
-2.536	6.118	2.864
-2.545	6.118	2.869
-2.546	6.118	2.869
-2.561	6.118	2.875
-2.562	6.118	2.875
-2.575	6.118	2.877
-2.576	6.118	2.877
-2.582	6.118	2.877
-2.582	6.118	2.876
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-2.592	6.118	2.873
-2.600	6.118	2.868
-2.601	6.118	2.868
-2.602	6.118	2.867
-2.602	6.118	2.866
-2.606	6.118	2.861

-2.606	6.118	2.860
-2.608	6.118	2.854
-2.608	6.118	2.854
-2.609	6.118	2.845
-2.609	6.118	2.844
-2.605	6.118	2.830
-2.604	6.118	2.829
-2.595	6.118	2.812
-2.589	6.118	2.803
-2.583	6.118	2.795
-2.575	6.118	2.785
-2.567	6.118	2.777
-2.554	6.118	2.761
-2.542	6.118	2.748
-2.526	6.118	2.729
-2.515	6.118	2.716
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-2.705	7.788	2.600
-2.701	7.788	2.597
-2.685	7.788	2.579
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-2.661	7.788	2.554
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-2.604	7.788	2.493
-2.600	7.788	2.490
-2.583	7.788	2.472
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-2.543	7.788	2.429
-2.539	7.788	2.426
-2.522	7.788	2.408
-2.519	7.788	2.404
-2.502	7.788	2.386
-2.498	7.788	2.383
-2.481	7.788	2.365
-2.478	7.788	2.361
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-2.397	7.788	2.277
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-2.373	7.788	2.251
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-2.348	7.788	2.225
-2.312	7.788	2.187
-2.305	7.788	2.180
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-2.266	7.788	2.139
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-2.244	7.788	2.117
-2.226	7.788	2.098
-2.223	7.788	2.094
-2.205	7.788	2.075
-2.201	7.788	2.072
-2.183	7.788	2.053
-2.180	7.788	2.049
-2.162	7.788	2.031
-2.159	7.788	2.027
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-2.137	7.788	2.005
-2.119	7.788	1.986
-2.116	7.788	1.983
-2.098	7.788	1.964
-2.095	7.788	1.961
-2.080	7.788	1.946
-2.076	7.788	1.942
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-2.052	7.788	1.916
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-2.027	7.788	1.890
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-1.781	7.788	1.635
-1.760	7.788	1.614
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-1.735	7.788	1.589
-1.732	7.788	1.585
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-1.453	7.788	1.300
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-1.440	7.788	1.286
-1.439	7.788	1.285
-1.436	7.788	1.282
-1.421	7.788	1.267
-1.418	7.788	1.264
-1.403	7.788	1.249
-1.400	7.788	1.246
-1.385	7.788	1.230
-1.382	7.788	1.227
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-1.364	7.788	1.209
-1.349	7.788	1.193
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-1.331	7.788	1.175
-1.328	7.788	1.172
-1.313	7.788	1.157
-1.310	7.788	1.154
-1.295	7.788	1.138
-1.292	7.788	1.136
-1.277	7.788	1.120
-1.274	7.788	1.117
-1.258	7.788	1.102
-1.256	7.788	1.099
-1.240	7.788	1.083
-1.237	7.788	1.081
-1.222	7.788	1.065
-1.219	7.788	1.062
-1.204	7.788	1.047
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-0.912	7.788	0.755
-0.895	7.788	0.737
-0.891	7.788	0.734
-0.874	7.788	0.716
-0.870	7.788	0.713
-0.853	7.788	0.695
-0.849	7.788	0.692
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-0.828	7.788	0.671
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-0.808	7.788	0.651
-0.790	7.788	0.633
-0.785	7.788	0.629
-0.761	7.788	0.605
-0.756	7.788	0.600
-0.732	7.788	0.576
-0.729	7.788	0.573
-0.713	7.788	0.557
-0.710	7.788	0.555
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-0.691	7.788	0.536
-0.675	7.788	0.520
-0.672	7.788	0.517
-0.656	7.788	0.501

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-0.597	7.788	0.443
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-0.578	7.788	0.424
-0.562	7.788	0.408
-0.559	7.788	0.406
-0.543	7.788	0.390
-0.540	7.788	0.387
-0.523	7.788	0.371
-0.520	7.788	0.368
-0.504	7.788	0.352
-0.501	7.788	0.350
-0.485	7.788	0.334
-0.482	7.788	0.331
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-0.252	7.788	0.107

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-0.137	7.788	-0.005
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-0.088	7.788	-0.052
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-0.073	7.788	-0.067
-0.060	7.788	-0.079
-0.058	7.788	-0.082
-0.042	7.788	-0.098
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-0.023	7.788	-0.116
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0.073	7.788	-0.209
0.088	7.788	-0.225
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0.217	7.788	-0.352
0.220	7.788	-0.354
0.235	7.788	-0.370
0.238	7.788	-0.373
0.255	7.788	-0.389
0.258	7.788	-0.392
0.274	7.788	-0.408
0.277	7.788	-0.411
0.293	7.788	-0.427
0.296	7.788	-0.430
0.312	7.788	-0.446
0.315	7.788	-0.449
0.331	7.788	-0.465
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0.353	7.788	-0.487
0.369	7.788	-0.503
0.372	7.788	-0.506
0.388	7.788	-0.523
0.391	7.788	-0.525
0.407	7.788	-0.542
0.410	7.788	-0.545
0.426	7.788	-0.561
0.429	7.788	-0.564
0.445	7.788	-0.580
0.448	7.788	-0.583
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0.467	7.788	-0.602
0.483	7.788	-0.618
0.486	7.788	-0.621
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0.504	7.788	-0.640
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0.523	7.788	-0.660
0.539	7.788	-0.676
0.543	7.788	-0.680
0.562	7.788	-0.700
0.566	7.788	-0.703

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0.601	7.788	-0.740
0.604	7.788	-0.743
0.617	7.788	-0.756
0.619	7.788	-0.759
0.633	7.788	-0.773
0.635	7.788	-0.775
0.649	7.788	-0.789
0.651	7.788	-0.792
0.664	7.788	-0.806
0.667	7.788	-0.808
0.680	7.788	-0.822
0.683	7.788	-0.825
0.696	7.788	-0.839
0.699	7.788	-0.841
0.712	7.788	-0.856
0.714	7.788	-0.858
0.728	7.788	-0.872
0.730	7.788	-0.875
0.744	7.788	-0.889
0.746	7.788	-0.891
0.759	7.788	-0.905
0.762	7.788	-0.908
0.775	7.788	-0.922
0.780	7.788	-0.927
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0.812	7.788	-0.960
0.839	7.788	-0.989
0.842	7.788	-0.992
0.859	7.788	-1.010
0.862	7.788	-1.014
0.879	7.788	-1.032
0.882	7.788	-1.035
0.900	7.788	-1.054
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0.920	7.788	-1.075
0.923	7.788	-1.078
0.940	7.788	-1.097
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0.961	7.788	-1.119
0.964	7.788	-1.122
0.981	7.788	-1.140

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1.002	7.788	-1.162
1.005	7.788	-1.165
1.022	7.788	-1.184
1.025	7.788	-1.187
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1.046	7.788	-1.209
1.063	7.788	-1.227
1.066	7.788	-1.231
1.083	7.788	-1.249
1.087	7.788	-1.253
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1.107	7.788	-1.274
1.124	7.788	-1.293
1.127	7.788	-1.296
1.145	7.788	-1.315
1.148	7.788	-1.318
1.165	7.788	-1.337
1.169	7.788	-1.341
1.190	7.788	-1.363
1.194	7.788	-1.367
1.215	7.788	-1.390
1.220	7.788	-1.394
1.245	7.788	-1.421
1.250	7.788	-1.426
1.275	7.788	-1.453
1.280	7.788	-1.458
1.305	7.788	-1.485
1.310	7.788	-1.490
1.335	7.788	-1.517
1.340	7.788	-1.522
1.365	7.788	-1.548
1.369	7.788	-1.553
1.395	7.788	-1.580
1.399	7.788	-1.585
1.424	7.788	-1.612
1.429	7.788	-1.616
1.454	7.788	-1.643
1.458	7.788	-1.646
1.477	7.788	-1.667
1.480	7.788	-1.670
1.499	7.788	-1.690
1.503	7.788	-1.694

1.522	7.788	-1.714
1.525	7.788	-1.717
1.544	7.788	-1.737
1.547	7.788	-1.741
1.566	7.788	-1.760
1.570	7.788	-1.764
1.589	7.788	-1.784
1.592	7.788	-1.787
1.611	7.788	-1.807
1.615	7.788	-1.811
1.633	7.788	-1.830
1.637	7.788	-1.834
1.656	7.788	-1.854
1.659	7.788	-1.857
1.678	7.788	-1.877
1.682	7.788	-1.880
1.701	7.788	-1.900
1.704	7.788	-1.904
1.723	7.788	-1.923
1.726	7.788	-1.927
1.745	7.788	-1.946
1.749	7.788	-1.950
1.768	7.788	-1.970
1.771	7.788	-1.973
1.790	7.788	-1.993
1.794	7.788	-1.996
1.813	7.788	-2.016
1.817	7.788	-2.020
1.837	7.788	-2.041
1.841	7.788	-2.045
1.862	7.788	-2.066
1.868	7.788	-2.072
1.898	7.788	-2.103
1.904	7.788	-2.109
1.935	7.788	-2.140
1.938	7.788	-2.143
1.953	7.788	-2.159
1.956	7.788	-2.161
1.971	7.788	-2.177
1.974	7.788	-2.180
1.990	7.788	-2.196
1.992	7.788	-2.198
2.008	7.788	-2.214

2.011	7.788	-2.217
2.026	7.788	-2.233
2.029	7.788	-2.236
2.045	7.788	-2.251
2.048	7.788	-2.254
2.063	7.788	-2.270
2.066	7.788	-2.273
2.082	7.788	-2.288
2.084	7.788	-2.291
2.100	7.788	-2.307
2.103	7.788	-2.310
2.119	7.788	-2.326
2.122	7.788	-2.328
2.137	7.788	-2.344
2.140	7.788	-2.347
2.156	7.788	-2.363
2.159	7.788	-2.366
2.178	7.788	-2.384
2.181	7.788	-2.388
2.200	7.788	-2.406
2.203	7.788	-2.409
2.221	7.788	-2.428
2.225	7.788	-2.431
2.243	7.788	-2.450
2.247	7.788	-2.453
2.266	7.788	-2.472
2.269	7.788	-2.475
2.288	7.788	-2.493
2.291	7.788	-2.497
2.310	7.788	-2.515
2.313	7.788	-2.518
2.332	7.788	-2.537
2.346	7.788	-2.550
2.377	7.788	-2.580
2.390	7.788	-2.594
2.421	7.788	-2.624
2.433	7.788	-2.635
2.458	7.788	-2.660
2.482	7.788	-2.683
2.497	7.788	-2.699
2.505	7.788	-2.706
2.520	7.788	-2.721
2.527	7.788	-2.728

2.542	7.788	-2.743
2.546	7.788	-2.746
2.555	7.788	-2.754
2.559	7.788	-2.757
2.568	7.788	-2.764
2.573	7.788	-2.767
2.575	7.788	-2.769
2.579	7.788	-2.771
2.586	7.788	-2.774
2.588	7.788	-2.775
2.595	7.788	-2.776
2.600	7.788	-2.775
2.603	7.788	-2.775
2.607	7.788	-2.772
2.609	7.788	-2.771
2.610	7.788	-2.770
2.611	7.788	-2.769
2.613	7.788	-2.766
2.613	7.788	-2.765
2.614	7.788	-2.762
2.615	7.788	-2.760
2.615	7.788	-2.756
2.615	7.788	-2.754
2.614	7.788	-2.750
2.614	7.788	-2.748
2.612	7.788	-2.744
2.609	7.788	-2.735
2.606	7.788	-2.730
2.600	7.788	-2.719
2.598	7.788	-2.717
2.594	7.788	-2.711
2.592	7.788	-2.708
2.588	7.788	-2.702
2.585	7.788	-2.698
2.580	7.788	-2.690
2.577	7.788	-2.686
2.572	7.788	-2.678
2.569	7.788	-2.675
2.563	7.788	-2.666
2.560	7.788	-2.663
2.554	7.788	-2.654
2.552	7.788	-2.652
2.540	7.788	-2.636

2.539	7.788	-2.633
2.529	7.788	-2.620
2.527	7.788	-2.618
2.519	7.788	-2.606
2.517	7.788	-2.602
2.516	7.788	-2.601
2.513	7.788	-2.597
2.499	7.788	-2.577
2.496	7.788	-2.574
2.482	7.788	-2.554
2.480	7.788	-2.550
2.465	7.788	-2.530
2.463	7.788	-2.526
2.449	7.788	-2.506
2.446	7.788	-2.503
2.432	7.788	-2.483
2.429	7.788	-2.479
2.415	7.788	-2.459
2.413	7.788	-2.455
2.398	7.788	-2.435
2.396	7.788	-2.431
2.382	7.788	-2.411
2.379	7.788	-2.408
2.365	7.788	-2.387
2.362	7.788	-2.384
2.348	7.788	-2.364
2.346	7.788	-2.360
2.331	7.788	-2.340
2.329	7.788	-2.336
2.315	7.788	-2.316
2.312	7.788	-2.312
2.298	7.788	-2.292
2.296	7.788	-2.289
2.284	7.788	-2.272
2.282	7.788	-2.269
2.270	7.788	-2.253
2.268	7.788	-2.250
2.256	7.788	-2.233
2.254	7.788	-2.230
2.243	7.788	-2.213
2.240	7.788	-2.210
2.229	7.788	-2.194
2.226	7.788	-2.191

2.215	7.788	-2.174
2.213	7.788	-2.171
2.201	7.788	-2.154
2.199	7.788	-2.151
2.187	7.788	-2.135
2.185	7.788	-2.132
2.173	7.788	-2.115
2.171	7.788	-2.112
2.159	7.788	-2.095
2.157	7.788	-2.092
2.146	7.788	-2.076
2.143	7.788	-2.073
2.132	7.788	-2.056
2.130	7.788	-2.053
2.118	7.788	-2.037
2.116	7.788	-2.034
2.104	7.788	-2.017
2.102	7.788	-2.014
2.090	7.788	-1.998
2.088	7.788	-1.995
2.076	7.788	-1.978
2.075	7.788	-1.976
2.065	7.788	-1.962
2.063	7.788	-1.960
2.054	7.788	-1.947
2.052	7.788	-1.944
2.043	7.788	-1.931
2.041	7.788	-1.928
2.032	7.788	-1.915
2.030	7.788	-1.913
2.021	7.788	-1.899
2.019	7.788	-1.897
2.010	7.788	-1.884
2.008	7.788	-1.881
1.998	7.788	-1.868
1.997	7.788	-1.866
1.987	7.788	-1.852
1.985	7.788	-1.850
1.976	7.788	-1.837
1.974	7.788	-1.834
1.965	7.788	-1.821
1.963	7.788	-1.819
1.954	7.788	-1.806

1.952	7.788	-1.803
1.943	7.788	-1.790
1.941	7.788	-1.788
1.932	7.788	-1.774
1.930	7.788	-1.772
1.921	7.788	-1.759
1.919	7.788	-1.756
1.910	7.788	-1.743
1.908	7.788	-1.741
1.899	7.788	-1.728
1.897	7.788	-1.725
1.887	7.788	-1.712
1.886	7.788	-1.710
1.876	7.788	-1.697
1.875	7.788	-1.695
1.865	7.788	-1.681
1.864	7.788	-1.679
1.854	7.788	-1.666
1.851	7.788	-1.661
1.832	7.788	-1.635
1.829	7.788	-1.630
1.810	7.788	-1.604
1.807	7.788	-1.600
1.788	7.788	-1.574
1.784	7.788	-1.569
1.766	7.788	-1.543
1.762	7.788	-1.538
1.744	7.788	-1.513
1.740	7.788	-1.508
1.722	7.788	-1.482
1.718	7.788	-1.477
1.700	7.788	-1.452
1.696	7.788	-1.447
1.678	7.788	-1.421
1.674	7.788	-1.417
1.656	7.788	-1.391
1.652	7.788	-1.386
1.634	7.788	-1.361
1.632	7.788	-1.358
1.621	7.788	-1.343
1.619	7.788	-1.340
1.608	7.788	-1.326
1.606	7.788	-1.323

1.595	7.788	-1.308
1.593	7.788	-1.305
1.583	7.788	-1.290
1.580	7.788	-1.288
1.570	7.788	-1.273
1.568	7.788	-1.270
1.557	7.788	-1.255
1.555	7.788	-1.252
1.544	7.788	-1.238
1.542	7.788	-1.235
1.531	7.788	-1.220
1.529	7.788	-1.218
1.520	7.788	-1.204
1.518	7.788	-1.202
1.508	7.788	-1.189
1.506	7.788	-1.186
1.496	7.788	-1.173
1.494	7.788	-1.170
1.485	7.788	-1.157
1.483	7.788	-1.155
1.473	7.788	-1.142
1.472	7.788	-1.139
1.462	7.788	-1.126
1.460	7.788	-1.124
1.451	7.788	-1.111
1.449	7.788	-1.109
1.439	7.788	-1.096
1.437	7.788	-1.093
1.428	7.788	-1.080
1.426	7.788	-1.078
1.416	7.788	-1.065
1.415	7.788	-1.063
1.405	7.788	-1.050
1.403	7.788	-1.047
1.394	7.788	-1.034
1.391	7.788	-1.031
1.379	7.788	-1.015
1.377	7.788	-1.012
1.365	7.788	-0.996
1.363	7.788	-0.993
1.351	7.788	-0.977
1.349	7.788	-0.974
1.337	7.788	-0.958

1.334	7.788	-0.955
1.323	7.788	-0.939
1.320	7.788	-0.937
1.308	7.788	-0.921
1.306	7.788	-0.918
1.294	7.788	-0.902
1.292	7.788	-0.899
1.280	7.788	-0.883
1.278	7.788	-0.880
1.266	7.788	-0.864
1.263	7.788	-0.861
1.251	7.788	-0.846
1.249	7.788	-0.843
1.237	7.788	-0.827
1.235	7.788	-0.824
1.223	7.788	-0.808
1.221	7.788	-0.805
1.209	7.788	-0.790
1.206	7.788	-0.787
1.194	7.788	-0.771
1.192	7.788	-0.768
1.180	7.788	-0.753
1.178	7.788	-0.750
1.166	7.788	-0.734
1.164	7.788	-0.732
1.154	7.788	-0.719
1.152	7.788	-0.717
1.142	7.788	-0.704
1.140	7.788	-0.701
1.129	7.788	-0.687
1.127	7.788	-0.684
1.116	7.788	-0.670
1.113	7.788	-0.668
1.102	7.788	-0.654
1.100	7.788	-0.651
1.089	7.788	-0.637
1.087	7.788	-0.635
1.076	7.788	-0.621
1.074	7.788	-0.618
1.063	7.788	-0.604
1.061	7.788	-0.602
1.050	7.788	-0.588
1.048	7.788	-0.585

1.037	7.788	-0.571
1.035	7.788	-0.569
1.024	7.788	-0.555
1.021	7.788	-0.552
1.010	7.788	-0.539
1.008	7.788	-0.536
0.997	7.788	-0.522
0.995	7.788	-0.520
0.984	7.788	-0.506
0.982	7.788	-0.504
0.970	7.788	-0.490
0.968	7.788	-0.487
0.957	7.788	-0.474
0.955	7.788	-0.471
0.944	7.788	-0.458
0.942	7.788	-0.455
0.930	7.788	-0.441
0.928	7.788	-0.438
0.913	7.788	-0.421
0.910	7.788	-0.418
0.896	7.788	-0.400
0.893	7.788	-0.397
0.878	7.788	-0.380
0.876	7.788	-0.377
0.861	7.788	-0.359
0.858	7.788	-0.356
0.845	7.788	-0.340
0.842	7.788	-0.337
0.828	7.788	-0.321
0.825	7.788	-0.318
0.811	7.788	-0.302
0.809	7.788	-0.299
0.795	7.788	-0.283
0.792	7.788	-0.280
0.778	7.788	-0.264
0.775	7.788	-0.261
0.761	7.788	-0.245
0.759	7.788	-0.242
0.745	7.788	-0.226
0.742	7.788	-0.223
0.728	7.788	-0.207
0.725	7.788	-0.204
0.711	7.788	-0.188

0.708	7.788	-0.186
0.694	7.788	-0.170
0.691	7.788	-0.167
0.677	7.788	-0.151
0.674	7.788	-0.148
0.660	7.788	-0.133
0.657	7.788	-0.130
0.643	7.788	-0.114
0.640	7.788	-0.111
0.626	7.788	-0.095
0.623	7.788	-0.093
0.609	7.788	-0.077
0.606	7.788	-0.074
0.591	7.788	-0.059
0.589	7.788	-0.056
0.574	7.788	-0.040
0.571	7.788	-0.037
0.557	7.788	-0.022
0.554	7.788	-0.019
0.539	7.788	-0.004
0.536	7.788	-0.001
0.522	7.788	0.015
0.519	7.788	0.017
0.504	7.788	0.033
0.501	7.788	0.036
0.487	7.788	0.051
0.484	7.788	0.054
0.469	7.788	0.069
0.466	7.788	0.072
0.451	7.788	0.087
0.448	7.788	0.090
0.434	7.788	0.105
0.431	7.788	0.108
0.416	7.788	0.123
0.413	7.788	0.126
0.398	7.788	0.141
0.395	7.788	0.144
0.380	7.788	0.159
0.377	7.788	0.162
0.362	7.788	0.177
0.359	7.788	0.180
0.344	7.788	0.195
0.341	7.788	0.198

0.326	7.788	0.213
0.323	7.788	0.216
0.307	7.788	0.231
0.305	7.788	0.233
0.290	7.788	0.248
0.287	7.788	0.251
0.272	7.788	0.265
0.269	7.788	0.268
0.254	7.788	0.283
0.251	7.788	0.285
0.236	7.788	0.300
0.233	7.788	0.303
0.217	7.788	0.318
0.214	7.788	0.321
0.198	7.788	0.336
0.195	7.788	0.339
0.179	7.788	0.354
0.176	7.788	0.357
0.160	7.788	0.372
0.157	7.788	0.375
0.141	7.788	0.390
0.138	7.788	0.393
0.122	7.788	0.408
0.119	7.788	0.411
0.103	7.788	0.426
0.100	7.788	0.429
0.083	7.788	0.444
0.080	7.788	0.447
0.064	7.788	0.462
0.061	7.788	0.465
0.045	7.788	0.480
0.042	7.788	0.482
0.025	7.788	0.498
0.022	7.788	0.500
0.006	7.788	0.515
0.003	7.788	0.518
-0.014	7.788	0.533
-0.017	7.788	0.536
-0.034	7.788	0.551
-0.040	7.788	0.557
-0.073	7.788	0.587
-0.079	7.788	0.592
-0.113	7.788	0.622

-0.119	7.788	0.628
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-0.159	7.788	0.663
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-0.199	7.788	0.699
-0.233	7.788	0.729
-0.239	7.788	0.735
-0.274	7.788	0.765
-0.280	7.788	0.770
-0.314	7.788	0.800
-0.321	7.788	0.805
-0.355	7.788	0.835
-0.362	7.788	0.841
-0.396	7.788	0.871
-0.401	7.788	0.876
-0.430	7.788	0.900
-0.436	7.788	0.905
-0.464	7.788	0.930
-0.471	7.788	0.936
-0.508	7.788	0.967
-0.515	7.788	0.973
-0.552	7.788	1.004
-0.559	7.788	1.010
-0.595	7.788	1.042
-0.602	7.788	1.047
-0.639	7.788	1.079
-0.646	7.788	1.085
-0.683	7.788	1.116
-0.690	7.788	1.122
-0.728	7.788	1.153
-0.735	7.788	1.159
-0.772	7.788	1.190
-0.779	7.788	1.196
-0.816	7.788	1.227
-0.824	7.788	1.233
-0.863	7.788	1.266
-0.870	7.788	1.273
-0.910	7.788	1.305
-0.917	7.788	1.311
-0.957	7.788	1.344
-0.964	7.788	1.350
-1.004	7.788	1.383
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-1.145	7.788	1.499
-1.152	7.788	1.505
-1.192	7.788	1.537
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-1.196	7.788	1.541
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-1.249	7.788	1.584
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-1.294	7.788	1.621
-1.332	7.788	1.652
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-1.849	7.788	2.063
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-2.719	7.788	2.722
-2.730	7.788	2.730
-2.765	7.788	2.753
-2.771	7.788	2.757
-2.785	7.788	2.764
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-2.803	7.788	2.769
-2.805	7.788	2.770
-2.809	7.788	2.770
-2.816	7.788	2.768
-2.819	7.788	2.767
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-1.516	9.458	1.218
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2.856	9.458	-2.619
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2.869	9.458	-2.629
2.879	9.458	-2.637
2.882	9.458	-2.639
2.887	9.458	-2.642
2.889	9.458	-2.643
2.898	9.458	-2.648
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2.907	9.458	-2.650
2.910	9.458	-2.650
2.915	9.458	-2.649
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2.921	9.458	-2.645
2.922	9.458	-2.644
2.923	9.458	-2.643
2.924	9.458	-2.640
2.924	9.458	-2.638
2.924	9.458	-2.636
2.924	9.458	-2.633
2.924	9.458	-2.631
2.923	9.458	-2.627

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2.920	9.458	-2.621
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2.912	9.458	-2.608
2.910	9.458	-2.606
2.900	9.458	-2.594
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2.885	9.458	-2.578
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-1.926	11.128	1.439
-1.924	11.128	1.437
-1.898	11.128	1.415
-1.896	11.128	1.413
-1.870	11.128	1.390
-1.868	11.128	1.388
-1.852	11.128	1.374
-1.850	11.128	1.373
-1.834	11.128	1.359
-1.833	11.128	1.358
-1.817	11.128	1.344
-1.815	11.128	1.342
-1.799	11.128	1.328
-1.798	11.128	1.327
-1.781	11.128	1.313
-1.780	11.128	1.312
-1.764	11.128	1.298
-1.763	11.128	1.297
-1.746	11.128	1.283
-1.745	11.128	1.281

-1.729	11.128	1.267
-1.727	11.128	1.266
-1.711	11.128	1.252
-1.710	11.128	1.251
-1.694	11.128	1.237
-1.692	11.128	1.236
-1.676	11.128	1.222
-1.675	11.128	1.221
-1.658	11.128	1.207
-1.657	11.128	1.205
-1.641	11.128	1.191
-1.639	11.128	1.190
-1.623	11.128	1.176
-1.622	11.128	1.175
-1.606	11.128	1.161
-1.604	11.128	1.160
-1.588	11.128	1.146
-1.587	11.128	1.145
-1.586	11.128	1.144
-1.585	11.128	1.144
-1.566	11.128	1.127
-1.565	11.128	1.126
-1.546	11.128	1.109
-1.544	11.128	1.108
-1.525	11.128	1.092
-1.523	11.128	1.090
-1.504	11.128	1.074
-1.503	11.128	1.073
-1.484	11.128	1.056
-1.482	11.128	1.055
-1.463	11.128	1.039
-1.461	11.128	1.037
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-1.441	11.128	1.020
-1.422	11.128	1.003
-1.420	11.128	1.002
-1.401	11.128	0.986
-1.399	11.128	0.984
-1.380	11.128	0.968
-1.379	11.128	0.967
-1.359	11.128	0.950
-1.358	11.128	0.949
-1.339	11.128	0.933

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-1.316	11.128	0.914
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-1.275	11.128	0.879
-1.255	11.128	0.863
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-1.130	11.128	0.757
-1.085	11.128	0.721
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-1.038	11.128	0.681
-1.034	11.128	0.678
-0.990	11.128	0.641
-0.986	11.128	0.638
-0.942	11.128	0.602
-0.938	11.128	0.599
-0.894	11.128	0.563
-0.890	11.128	0.560
-0.845	11.128	0.524
-0.842	11.128	0.521
-0.811	11.128	0.496
-0.809	11.128	0.494
-0.778	11.128	0.469
-0.776	11.128	0.467
-0.735	11.128	0.435
-0.732	11.128	0.433
-0.692	11.128	0.401
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-0.648	11.128	0.366
-0.645	11.128	0.364
-0.605	11.128	0.332
-0.601	11.128	0.329
-0.561	11.128	0.297
-0.558	11.128	0.295
-0.517	11.128	0.263
-0.514	11.128	0.260

-0.473	11.128	0.229
-0.470	11.128	0.226
-0.429	11.128	0.195
-0.426	11.128	0.192
-0.385	11.128	0.161
-0.382	11.128	0.158
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-0.338	11.128	0.125
-0.297	11.128	0.094
-0.294	11.128	0.091
-0.252	11.128	0.060
-0.249	11.128	0.058
-0.208	11.128	0.027
-0.205	11.128	0.024
-0.163	11.128	-0.007
-0.160	11.128	-0.009
-0.119	11.128	-0.040
-0.115	11.128	-0.043
-0.074	11.128	-0.074
-0.070	11.128	-0.076
-0.038	11.128	-0.100
-0.035	11.128	-0.102
-0.002	11.128	-0.126
0.000	11.128	-0.128
0.041	11.128	-0.158
0.044	11.128	-0.160
0.085	11.128	-0.190
0.088	11.128	-0.192
0.129	11.128	-0.222
0.133	11.128	-0.225
0.174	11.128	-0.254
0.177	11.128	-0.257
0.218	11.128	-0.286
0.221	11.128	-0.289
0.262	11.128	-0.319
0.266	11.128	-0.321
0.307	11.128	-0.351
0.310	11.128	-0.353
0.351	11.128	-0.383
0.354	11.128	-0.385
0.376	11.128	-0.401
0.378	11.128	-0.402
0.399	11.128	-0.418

0.401	11.128	-0.419
0.423	11.128	-0.434
0.424	11.128	-0.436
0.446	11.128	-0.451
0.447	11.128	-0.452
0.469	11.128	-0.468
0.471	11.128	-0.469
0.492	11.128	-0.485
0.494	11.128	-0.486
0.515	11.128	-0.502
0.517	11.128	-0.503
0.539	11.128	-0.519
0.540	11.128	-0.520
0.562	11.128	-0.536
0.563	11.128	-0.537
0.585	11.128	-0.553
0.587	11.128	-0.554
0.608	11.128	-0.569
0.610	11.128	-0.571
0.631	11.128	-0.586
0.633	11.128	-0.588
0.654	11.128	-0.603
0.656	11.128	-0.605
0.677	11.128	-0.620
0.679	11.128	-0.621
0.700	11.128	-0.637
0.702	11.128	-0.638
0.723	11.128	-0.654
0.725	11.128	-0.655
0.751	11.128	-0.675
0.753	11.128	-0.676
0.779	11.128	-0.696
0.781	11.128	-0.697
0.799	11.128	-0.711
0.801	11.128	-0.712
0.819	11.128	-0.725
0.820	11.128	-0.726
0.838	11.128	-0.740
0.839	11.128	-0.741
0.857	11.128	-0.754
0.859	11.128	-0.756
0.877	11.128	-0.769
0.878	11.128	-0.770

0.896	11.128	-0.784
0.897	11.128	-0.785
0.915	11.128	-0.798
0.917	11.128	-0.799
0.934	11.128	-0.813
0.936	11.128	-0.814
0.954	11.128	-0.827
0.955	11.128	-0.828
0.973	11.128	-0.842
0.974	11.128	-0.843
0.992	11.128	-0.857
0.993	11.128	-0.858
1.011	11.128	-0.871
1.013	11.128	-0.872
1.030	11.128	-0.886
1.032	11.128	-0.887
1.049	11.128	-0.901
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1.069	11.128	-0.915
1.070	11.128	-0.916
1.088	11.128	-0.930
1.089	11.128	-0.931
1.112	11.128	-0.949
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1.136	11.128	-0.968
1.138	11.128	-0.969
1.161	11.128	-0.987
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1.187	11.128	-1.007
1.210	11.128	-1.025
1.211	11.128	-1.026
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1.236	11.128	-1.045
1.259	11.128	-1.063
1.260	11.128	-1.064
1.283	11.128	-1.082
1.285	11.128	-1.084
1.307	11.128	-1.101
1.309	11.128	-1.103
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1.356	11.128	-1.140

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1.405	11.128	-1.178
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1.429	11.128	-1.198
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1.454	11.128	-1.217
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1.478	11.128	-1.237
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1.508	11.128	-1.260
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1.537	11.128	-1.283
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1.850	11.128	-1.533
1.852	11.128	-1.535
1.877	11.128	-1.555
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1.986	11.128	-1.642

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2.201	11.128	-1.813
2.227	11.128	-1.833
2.228	11.128	-1.834
2.253	11.128	-1.854
2.255	11.128	-1.855
2.283	11.128	-1.877
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2.357	11.128	-1.935
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2.998	11.128	-2.422
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3.188	11.128	-2.526
3.186	11.128	-2.521
3.186	11.128	-2.520
3.183	11.128	-2.515
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1.343	11.128	-0.681
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1.249	11.128	-0.597
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1.232	11.128	-0.582
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1.199	11.128	-0.553
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1.167	11.128	-0.525
1.151	11.128	-0.512
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1.135	11.128	-0.498
1.134	11.128	-0.497
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1.101	11.128	-0.469
1.086	11.128	-0.456
1.085	11.128	-0.455
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1.053	11.128	-0.428
1.052	11.128	-0.427
1.032	11.128	-0.410
1.030	11.128	-0.409
1.010	11.128	-0.392
1.009	11.128	-0.391
0.989	11.128	-0.374

0.987	11.128	-0.373
0.967	11.128	-0.357
0.966	11.128	-0.355
0.947	11.128	-0.340
0.946	11.128	-0.339
0.927	11.128	-0.323
0.925	11.128	-0.322
0.906	11.128	-0.307
0.905	11.128	-0.306
0.886	11.128	-0.290
0.884	11.128	-0.289
0.865	11.128	-0.274
0.864	11.128	-0.272
0.844	11.128	-0.257
0.843	11.128	-0.256
0.824	11.128	-0.241
0.822	11.128	-0.239
0.803	11.128	-0.224
0.802	11.128	-0.223
0.782	11.128	-0.208
0.781	11.128	-0.207
0.762	11.128	-0.191
0.760	11.128	-0.190
0.741	11.128	-0.175
0.739	11.128	-0.174
0.720	11.128	-0.159
0.718	11.128	-0.157
0.699	11.128	-0.142
0.697	11.128	-0.141
0.678	11.128	-0.126
0.677	11.128	-0.125
0.657	11.128	-0.110
0.655	11.128	-0.108
0.636	11.128	-0.093
0.634	11.128	-0.092
0.615	11.128	-0.077
0.613	11.128	-0.076
0.594	11.128	-0.061
0.592	11.128	-0.060
0.572	11.128	-0.045
0.571	11.128	-0.043
0.551	11.128	-0.028
0.550	11.128	-0.027

0.530	11.128	-0.012
0.528	11.128	-0.011
0.508	11.128	0.004
0.507	11.128	0.005
0.487	11.128	0.020
0.486	11.128	0.022
0.466	11.128	0.037
0.464	11.128	0.038
0.444	11.128	0.053
0.443	11.128	0.054
0.423	11.128	0.069
0.421	11.128	0.070
0.401	11.128	0.085
0.400	11.128	0.086
0.380	11.128	0.101
0.378	11.128	0.103
0.358	11.128	0.118
0.356	11.128	0.119
0.336	11.128	0.134
0.335	11.128	0.135
0.315	11.128	0.150
0.313	11.128	0.151
0.293	11.128	0.166
0.291	11.128	0.167
0.272	11.128	0.182
0.270	11.128	0.183
0.251	11.128	0.198
0.249	11.128	0.199
0.229	11.128	0.213
0.228	11.128	0.215
0.208	11.128	0.229
0.207	11.128	0.230
0.186	11.128	0.246
0.184	11.128	0.247
0.164	11.128	0.262
0.162	11.128	0.263
0.141	11.128	0.278
0.140	11.128	0.280
0.119	11.128	0.295
0.117	11.128	0.296
0.097	11.128	0.311
0.095	11.128	0.312
0.074	11.128	0.328

0.073	11.128	0.329
0.052	11.128	0.344
0.050	11.128	0.345
0.030	11.128	0.361
0.028	11.128	0.362
0.007	11.128	0.377
0.006	11.128	0.378
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-0.038	11.128	0.410
-0.040	11.128	0.411
-0.060	11.128	0.426
-0.062	11.128	0.427
-0.083	11.128	0.443
-0.085	11.128	0.444
-0.106	11.128	0.459
-0.107	11.128	0.460
-0.128	11.128	0.476
-0.130	11.128	0.477
-0.151	11.128	0.492
-0.152	11.128	0.493
-0.173	11.128	0.508
-0.175	11.128	0.510
-0.196	11.128	0.525
-0.198	11.128	0.526
-0.219	11.128	0.541
-0.220	11.128	0.542
-0.241	11.128	0.558
-0.243	11.128	0.559
-0.264	11.128	0.574
-0.266	11.128	0.575
-0.287	11.128	0.590
-0.288	11.128	0.592
-0.310	11.128	0.607
-0.311	11.128	0.608
-0.332	11.128	0.623
-0.334	11.128	0.625
-0.355	11.128	0.640
-0.357	11.128	0.641
-0.378	11.128	0.656
-0.379	11.128	0.657
-0.401	11.128	0.673
-0.402	11.128	0.674

-0.423	11.128	0.689
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-0.446	11.128	0.706
-0.448	11.128	0.707
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-0.471	11.128	0.723
-0.492	11.128	0.738
-0.494	11.128	0.740
-0.515	11.128	0.755
-0.517	11.128	0.756
-0.534	11.128	0.769
-0.536	11.128	0.770
-0.553	11.128	0.782
-0.555	11.128	0.783
-0.572	11.128	0.796
-0.574	11.128	0.797
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-0.639	11.128	0.844
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-0.738	11.128	0.915
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-0.762	11.128	0.932
-0.785	11.128	0.948
-0.786	11.128	0.949
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-0.835	11.128	0.984
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-0.883	11.128	1.019
-0.929	11.128	1.051
-0.932	11.128	1.053
-0.977	11.128	1.086
-0.981	11.128	1.088
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-1.080	11.128	1.159
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-1.183	11.128	1.232
-1.187	11.128	1.235
-1.235	11.128	1.268
-1.239	11.128	1.271
-1.287	11.128	1.305
-1.291	11.128	1.308
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-1.390	11.128	1.377
-1.394	11.128	1.380
-1.397	11.128	1.383
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-1.449	11.128	1.418
-1.495	11.128	1.451
-1.498	11.128	1.453
-1.545	11.128	1.486
-1.548	11.128	1.488
-1.595	11.128	1.520
-1.598	11.128	1.523
-1.645	11.128	1.555
-1.648	11.128	1.557
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-1.795	11.128	1.658
-1.798	11.128	1.661
-1.845	11.128	1.693
-1.849	11.128	1.695
-1.895	11.128	1.727
-1.899	11.128	1.730
-1.945	11.128	1.761
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-2.050	11.128	1.832

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-2.152	11.128	1.901
-2.199	11.128	1.932
-2.203	11.128	1.935
-2.265	11.128	1.976
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-2.454	11.128	2.101
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-2.636	11.128	2.219
-2.640	11.128	2.222
-2.691	11.128	2.254
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-2.750	11.128	2.292
-2.801	11.128	2.325
-2.805	11.128	2.327
-2.856	11.128	2.360
-2.860	11.128	2.362
-2.886	11.128	2.378
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-2.915	11.128	2.397
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-3.136	11.128	2.534
-3.154	11.128	2.544
-3.157	11.128	2.545
-3.171	11.128	2.551
-3.173	11.128	2.551
-3.178	11.128	2.552
-3.181	11.128	2.552
-3.187	11.128	2.551
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-3.193	11.128	2.547
-3.193	11.128	2.547
-3.193	11.128	2.546
-3.194	11.128	2.544
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-3.194	11.128	2.538
-3.193	11.128	2.534
-3.192	11.128	2.533
-3.188	11.128	2.525
-3.186	11.128	2.523
-3.172	11.128	2.509
-3.170	11.128	2.508
-3.151	11.128	2.491
-3.141	11.128	2.483
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-3.181	12.798	2.286
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-3.155	12.798	2.266
-3.137	12.798	2.252
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-3.112	12.798	2.233
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-3.086	12.798	2.214
-3.079	12.798	2.208

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-2.952	12.798	2.111
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-2.927	12.798	2.092
-2.909	12.798	2.078
-2.902	12.798	2.072
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-2.065	12.798	1.413
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-1.646	12.798	1.082
-1.645	12.798	1.082
-1.645	12.798	1.081
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-1.413	12.798	0.901
-1.382	12.798	0.877
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-1.013	12.798	0.595

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0.945	12.798	-0.728

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1.301	12.798	-0.963
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1.335	12.798	-0.986
1.353	12.798	-0.998
1.361	12.798	-1.004
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1.388	12.798	-1.021
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1.414	12.798	-1.039
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1.440	12.798	-1.057
1.458	12.798	-1.070
1.466	12.798	-1.075
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1.511	12.798	-1.105
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1.690	12.798	-1.228
1.717	12.798	-1.247
1.728	12.798	-1.255
1.755	12.798	-1.273
1.766	12.798	-1.281
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1.831	12.798	-1.326
1.842	12.798	-1.334
1.869	12.798	-1.353
1.880	12.798	-1.361
1.907	12.798	-1.380
1.918	12.798	-1.387
1.945	12.798	-1.406
1.956	12.798	-1.414
1.983	12.798	-1.433
1.991	12.798	-1.439
2.012	12.798	-1.453
2.020	12.798	-1.459
2.040	12.798	-1.473
2.049	12.798	-1.479
2.069	12.798	-1.494
2.078	12.798	-1.500
2.098	12.798	-1.514
2.107	12.798	-1.520
2.127	12.798	-1.534
2.136	12.798	-1.540
2.156	12.798	-1.555
2.164	12.798	-1.561
2.185	12.798	-1.575
2.193	12.798	-1.581
2.213	12.798	-1.595
2.222	12.798	-1.601
2.242	12.798	-1.616
2.251	12.798	-1.622
2.271	12.798	-1.636
2.280	12.798	-1.642
2.300	12.798	-1.657

2.309	12.798	-1.663
2.329	12.798	-1.677
2.338	12.798	-1.683
2.358	12.798	-1.697
2.367	12.798	-1.703
2.387	12.798	-1.718
2.396	12.798	-1.724
2.416	12.798	-1.738
2.424	12.798	-1.744
2.445	12.798	-1.758
2.454	12.798	-1.765
2.476	12.798	-1.780
2.486	12.798	-1.787
2.507	12.798	-1.803
2.521	12.798	-1.812
2.554	12.798	-1.835
2.568	12.798	-1.845
2.600	12.798	-1.867
2.614	12.798	-1.877
2.646	12.798	-1.899
2.660	12.798	-1.909
2.692	12.798	-1.932
2.706	12.798	-1.941
2.739	12.798	-1.964
2.753	12.798	-1.973
2.785	12.798	-1.996
2.799	12.798	-2.005
2.831	12.798	-2.028
2.846	12.798	-2.037
2.878	12.798	-2.060
2.895	12.798	-2.071
2.933	12.798	-2.097
2.949	12.798	-2.108
2.987	12.798	-2.134
3.004	12.798	-2.145
3.042	12.798	-2.171
3.059	12.798	-2.182
3.098	12.798	-2.208
3.115	12.798	-2.219
3.153	12.798	-2.245
3.170	12.798	-2.256
3.209	12.798	-2.282
3.246	12.798	-2.306

3.255	12.798	-2.312
3.256	12.798	-2.313
3.271	12.798	-2.322
3.283	12.798	-2.330
3.310	12.798	-2.347
3.318	12.798	-2.353
3.336	12.798	-2.365
3.343	12.798	-2.370
3.360	12.798	-2.381
3.369	12.798	-2.387
3.375	12.798	-2.391
3.384	12.798	-2.396
3.389	12.798	-2.399
3.394	12.798	-2.403
3.398	12.798	-2.405
3.405	12.798	-2.408
3.409	12.798	-2.411
3.415	12.798	-2.413
3.419	12.798	-2.414
3.421	12.798	-2.414
3.427	12.798	-2.414
3.429	12.798	-2.413
3.433	12.798	-2.410
3.434	12.798	-2.409
3.435	12.798	-2.407
3.435	12.798	-2.406
3.436	12.798	-2.402
3.436	12.798	-2.401
3.436	12.798	-2.397
3.435	12.798	-2.396
3.433	12.798	-2.392
3.432	12.798	-2.390
3.429	12.798	-2.386
3.422	12.798	-2.378
3.418	12.798	-2.374
3.409	12.798	-2.366
3.403	12.798	-2.361
3.398	12.798	-2.357
3.387	12.798	-2.348
3.380	12.798	-2.343
3.365	12.798	-2.332
3.358	12.798	-2.326
3.342	12.798	-2.314

3.336	12.798	-2.309
3.323	12.798	-2.298
3.318	12.798	-2.294
3.306	12.798	-2.283
3.291	12.798	-2.270
3.290	12.798	-2.269
3.286	12.798	-2.266
3.284	12.798	-2.264
3.277	12.798	-2.258
3.261	12.798	-2.243
3.253	12.798	-2.237
3.237	12.798	-2.222
3.229	12.798	-2.216
3.213	12.798	-2.201
3.206	12.798	-2.194
3.189	12.798	-2.180
3.182	12.798	-2.173
3.166	12.798	-2.159
3.158	12.798	-2.152
3.142	12.798	-2.138
3.135	12.798	-2.131
3.119	12.798	-2.117
3.112	12.798	-2.110
3.095	12.798	-2.096
3.088	12.798	-2.090
3.072	12.798	-2.075
3.065	12.798	-2.069
3.049	12.798	-2.054
3.042	12.798	-2.048
3.025	12.798	-2.033
3.018	12.798	-2.027
3.002	12.798	-2.012
2.995	12.798	-2.006
2.979	12.798	-1.991
2.967	12.798	-1.981
2.941	12.798	-1.957
2.929	12.798	-1.947
2.902	12.798	-1.923
2.891	12.798	-1.913
2.864	12.798	-1.888
2.852	12.798	-1.878
2.826	12.798	-1.854
2.814	12.798	-1.844

2.787	12.798	-1.820
2.776	12.798	-1.809
2.749	12.798	-1.785
2.737	12.798	-1.775
2.711	12.798	-1.751
2.699	12.798	-1.741
2.672	12.798	-1.717
2.663	12.798	-1.709
2.642	12.798	-1.689
2.632	12.798	-1.681
2.611	12.798	-1.662
2.601	12.798	-1.654
2.580	12.798	-1.634
2.571	12.798	-1.626
2.549	12.798	-1.607
2.540	12.798	-1.599
2.519	12.798	-1.580
2.509	12.798	-1.572
2.488	12.798	-1.552
2.479	12.798	-1.544
2.458	12.798	-1.525
2.448	12.798	-1.517
2.427	12.798	-1.498
2.418	12.798	-1.490
2.397	12.798	-1.471
2.388	12.798	-1.463
2.366	12.798	-1.444
2.357	12.798	-1.436
2.336	12.798	-1.417
2.327	12.798	-1.410
2.306	12.798	-1.391
2.297	12.798	-1.383
2.276	12.798	-1.364
2.267	12.798	-1.356
2.245	12.798	-1.337
2.236	12.798	-1.330
2.215	12.798	-1.311
2.206	12.798	-1.303
2.185	12.798	-1.284
2.176	12.798	-1.277
2.155	12.798	-1.258
2.146	12.798	-1.250
2.125	12.798	-1.232

2.116	12.798	-1.224
2.095	12.798	-1.206
2.086	12.798	-1.198
2.065	12.798	-1.180
2.060	12.798	-1.175
2.047	12.798	-1.165
2.042	12.798	-1.160
2.030	12.798	-1.149
2.025	12.798	-1.145
2.012	12.798	-1.134
2.007	12.798	-1.130
1.995	12.798	-1.119
1.990	12.798	-1.115
1.977	12.798	-1.104
1.972	12.798	-1.100
1.960	12.798	-1.089
1.954	12.798	-1.085
1.942	12.798	-1.074
1.937	12.798	-1.070
1.925	12.798	-1.059
1.915	12.798	-1.051
1.893	12.798	-1.032
1.884	12.798	-1.025
1.861	12.798	-1.006
1.852	12.798	-0.998
1.830	12.798	-0.979
1.821	12.798	-0.972
1.799	12.798	-0.953
1.790	12.798	-0.946
1.768	12.798	-0.928
1.759	12.798	-0.920
1.737	12.798	-0.902
1.731	12.798	-0.897
1.718	12.798	-0.886
1.712	12.798	-0.881
1.698	12.798	-0.870
1.693	12.798	-0.865
1.679	12.798	-0.854
1.673	12.798	-0.849
1.659	12.798	-0.838
1.654	12.798	-0.834
1.640	12.798	-0.822
1.634	12.798	-0.818

1.621	12.798	-0.807
1.615	12.798	-0.802
1.601	12.798	-0.791
1.595	12.798	-0.786
1.582	12.798	-0.775
1.576	12.798	-0.771
1.562	12.798	-0.760
1.556	12.798	-0.755
1.543	12.798	-0.744
1.537	12.798	-0.740
1.523	12.798	-0.729
1.517	12.798	-0.724
1.504	12.798	-0.713
1.498	12.798	-0.709
1.484	12.798	-0.698
1.478	12.798	-0.694
1.465	12.798	-0.683
1.459	12.798	-0.679
1.445	12.798	-0.668
1.439	12.798	-0.663
1.426	12.798	-0.653
1.421	12.798	-0.649
1.409	12.798	-0.640
1.404	12.798	-0.636
1.393	12.798	-0.627
1.388	12.798	-0.623
1.375	12.798	-0.614
1.370	12.798	-0.610
1.357	12.798	-0.600
1.352	12.798	-0.596
1.340	12.798	-0.587
1.334	12.798	-0.583
1.322	12.798	-0.573
1.316	12.798	-0.569
1.304	12.798	-0.560
1.298	12.798	-0.556
1.286	12.798	-0.546
1.281	12.798	-0.542
1.268	12.798	-0.533
1.263	12.798	-0.529
1.250	12.798	-0.520
1.245	12.798	-0.516
1.232	12.798	-0.506

1.227	12.798	-0.502
1.214	12.798	-0.493
1.209	12.798	-0.489
1.196	12.798	-0.480
1.191	12.798	-0.476
1.178	12.798	-0.466
1.173	12.798	-0.463
1.160	12.798	-0.453
1.155	12.798	-0.449
1.142	12.798	-0.440
1.137	12.798	-0.436
1.124	12.798	-0.427
1.119	12.798	-0.423
1.106	12.798	-0.414
1.099	12.798	-0.409
1.082	12.798	-0.397
1.075	12.798	-0.392
1.059	12.798	-0.380
1.052	12.798	-0.375
1.036	12.798	-0.364
1.029	12.798	-0.359
1.012	12.798	-0.347
1.006	12.798	-0.342
0.990	12.798	-0.331
0.983	12.798	-0.327
0.968	12.798	-0.315
0.961	12.798	-0.311
0.945	12.798	-0.300
0.939	12.798	-0.295
0.923	12.798	-0.284
0.916	12.798	-0.279
0.901	12.798	-0.268
0.894	12.798	-0.264
0.878	12.798	-0.253
0.872	12.798	-0.248
0.856	12.798	-0.237
0.849	12.798	-0.233
0.834	12.798	-0.222
0.827	12.798	-0.217
0.811	12.798	-0.206
0.804	12.798	-0.202
0.789	12.798	-0.190
0.782	12.798	-0.186

0.766	12.798	-0.175
0.759	12.798	-0.170
0.743	12.798	-0.159
0.737	12.798	-0.155
0.721	12.798	-0.144
0.714	12.798	-0.139
0.698	12.798	-0.128
0.691	12.798	-0.124
0.675	12.798	-0.113
0.669	12.798	-0.108
0.653	12.798	-0.097
0.646	12.798	-0.093
0.630	12.798	-0.082
0.623	12.798	-0.078
0.607	12.798	-0.067
0.601	12.798	-0.062
0.585	12.798	-0.051
0.578	12.798	-0.047
0.562	12.798	-0.036
0.555	12.798	-0.031
0.539	12.798	-0.020
0.532	12.798	-0.016
0.516	12.798	-0.005
0.509	12.798	0.000
0.493	12.798	0.011
0.487	12.798	0.015
0.470	12.798	0.026
0.464	12.798	0.031
0.448	12.798	0.042
0.441	12.798	0.046
0.425	12.798	0.057
0.418	12.798	0.062
0.402	12.798	0.073
0.395	12.798	0.077
0.379	12.798	0.088
0.372	12.798	0.092
0.356	12.798	0.103
0.349	12.798	0.108
0.333	12.798	0.119
0.326	12.798	0.123
0.310	12.798	0.134
0.303	12.798	0.139
0.287	12.798	0.150

0.280	12.798	0.154
0.264	12.798	0.165
0.258	12.798	0.169
0.242	12.798	0.180
0.235	12.798	0.184
0.219	12.798	0.195
0.213	12.798	0.199
0.197	12.798	0.210
0.190	12.798	0.214
0.174	12.798	0.225
0.167	12.798	0.230
0.150	12.798	0.241
0.143	12.798	0.246
0.127	12.798	0.257
0.120	12.798	0.261
0.103	12.798	0.272
0.096	12.798	0.277
0.080	12.798	0.288
0.073	12.798	0.293
0.056	12.798	0.304
0.049	12.798	0.308
0.033	12.798	0.319
0.026	12.798	0.324
0.009	12.798	0.335
0.002	12.798	0.340
-0.014	12.798	0.351
-0.021	12.798	0.355
-0.038	12.798	0.366
-0.045	12.798	0.371
-0.061	12.798	0.382
-0.068	12.798	0.386
-0.085	12.798	0.398
-0.092	12.798	0.402
-0.109	12.798	0.413
-0.115	12.798	0.418
-0.132	12.798	0.429
-0.139	12.798	0.433
-0.156	12.798	0.445
-0.163	12.798	0.449
-0.179	12.798	0.460
-0.186	12.798	0.465
-0.203	12.798	0.476
-0.210	12.798	0.480

-0.227	12.798	0.492
-0.233	12.798	0.496
-0.250	12.798	0.507
-0.257	12.798	0.512
-0.274	12.798	0.523
-0.281	12.798	0.527
-0.297	12.798	0.539
-0.304	12.798	0.543
-0.321	12.798	0.554
-0.328	12.798	0.559
-0.345	12.798	0.570
-0.352	12.798	0.574
-0.368	12.798	0.586
-0.375	12.798	0.590
-0.392	12.798	0.601
-0.399	12.798	0.606
-0.416	12.798	0.617
-0.423	12.798	0.621
-0.440	12.798	0.633
-0.447	12.798	0.637
-0.463	12.798	0.648
-0.470	12.798	0.653
-0.487	12.798	0.664
-0.494	12.798	0.668
-0.511	12.798	0.680
-0.518	12.798	0.684
-0.535	12.798	0.695
-0.541	12.798	0.700
-0.558	12.798	0.711
-0.564	12.798	0.715
-0.578	12.798	0.724
-0.584	12.798	0.728
-0.598	12.798	0.737
-0.604	12.798	0.741
-0.618	12.798	0.750
-0.623	12.798	0.754
-0.637	12.798	0.763
-0.645	12.798	0.768
-0.662	12.798	0.780
-0.670	12.798	0.785
-0.687	12.798	0.796
-0.695	12.798	0.801
-0.713	12.798	0.813

-0.720	12.798	0.818
-0.738	12.798	0.830
-0.745	12.798	0.834
-0.763	12.798	0.846
-0.770	12.798	0.851
-0.788	12.798	0.863
-0.795	12.798	0.867
-0.813	12.798	0.879
-0.820	12.798	0.884
-0.838	12.798	0.896
-0.845	12.798	0.901
-0.863	12.798	0.913
-0.871	12.798	0.917
-0.889	12.798	0.929
-0.896	12.798	0.934
-0.914	12.798	0.946
-0.921	12.798	0.950
-0.939	12.798	0.962
-0.946	12.798	0.967
-0.964	12.798	0.979
-0.972	12.798	0.984
-0.989	12.798	0.996
-0.997	12.798	1.000
-1.015	12.798	1.012
-1.022	12.798	1.017
-1.040	12.798	1.029
-1.048	12.798	1.034
-1.067	12.798	1.046
-1.075	12.798	1.051
-1.094	12.798	1.064
-1.101	12.798	1.069
-1.120	12.798	1.082
-1.128	12.798	1.087
-1.147	12.798	1.099
-1.155	12.798	1.104
-1.174	12.798	1.117
-1.182	12.798	1.122
-1.201	12.798	1.134
-1.208	12.798	1.139
-1.228	12.798	1.152
-1.235	12.798	1.157
-1.254	12.798	1.169
-1.262	12.798	1.174

-1.281	12.798	1.187
-1.289	12.798	1.192
-1.308	12.798	1.204
-1.316	12.798	1.209
-1.335	12.798	1.222
-1.343	12.798	1.227
-1.362	12.798	1.239
-1.370	12.798	1.244
-1.389	12.798	1.257
-1.396	12.798	1.262
-1.416	12.798	1.274
-1.423	12.798	1.279
-1.442	12.798	1.292
-1.450	12.798	1.297
-1.469	12.798	1.309
-1.470	12.798	1.310
-1.474	12.798	1.313
-1.482	12.798	1.317
-1.500	12.798	1.329
-1.508	12.798	1.334
-1.526	12.798	1.346
-1.534	12.798	1.351
-1.552	12.798	1.363
-1.560	12.798	1.368
-1.578	12.798	1.380
-1.586	12.798	1.385
-1.604	12.798	1.397
-1.612	12.798	1.401
-1.630	12.798	1.413
-1.638	12.798	1.418
-1.656	12.798	1.430
-1.664	12.798	1.435
-1.683	12.798	1.447
-1.690	12.798	1.452
-1.709	12.798	1.463
-1.716	12.798	1.468
-1.735	12.798	1.480
-1.742	12.798	1.485
-1.761	12.798	1.497
-1.768	12.798	1.502
-1.787	12.798	1.514
-1.794	12.798	1.518
-1.813	12.798	1.530

-1.820	12.798	1.535
-1.839	12.798	1.547
-1.847	12.798	1.552
-1.865	12.798	1.563
-1.873	12.798	1.568
-1.891	12.798	1.580
-1.899	12.798	1.585
-1.918	12.798	1.597
-1.925	12.798	1.601
-1.944	12.798	1.613
-1.951	12.798	1.618
-1.970	12.798	1.630
-1.978	12.798	1.634
-1.996	12.798	1.646
-2.004	12.798	1.651
-2.023	12.798	1.663
-2.030	12.798	1.667
-2.049	12.798	1.679
-2.056	12.798	1.684
-2.075	12.798	1.696
-2.083	12.798	1.701
-2.102	12.798	1.712
-2.109	12.798	1.717
-2.128	12.798	1.729
-2.136	12.798	1.734
-2.155	12.798	1.745
-2.162	12.798	1.750
-2.181	12.798	1.762
-2.189	12.798	1.766
-2.208	12.798	1.778
-2.215	12.798	1.783
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-2.242	12.798	1.799
-2.261	12.798	1.811
-2.268	12.798	1.816
-2.287	12.798	1.828
-2.295	12.798	1.832
-2.314	12.798	1.844
-2.337	12.798	1.858
-2.349	12.798	1.866
-2.372	12.798	1.879
-2.384	12.798	1.887
-2.391	12.798	1.891

-2.408	12.798	1.902
-2.415	12.798	1.906
-2.432	12.798	1.916
-2.439	12.798	1.920
-2.456	12.798	1.931
-2.463	12.798	1.935
-2.481	12.798	1.946
-2.488	12.798	1.950
-2.505	12.798	1.960
-2.512	12.798	1.964
-2.529	12.798	1.975
-2.536	12.798	1.979
-2.553	12.798	1.990
-2.560	12.798	1.994
-2.578	12.798	2.004
-2.585	12.798	2.008
-2.602	12.798	2.019
-2.609	12.798	2.023
-2.626	12.798	2.033
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-2.675	12.798	2.063
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-2.700	12.798	2.077
-2.707	12.798	2.081
-2.724	12.798	2.092
-2.731	12.798	2.096
-2.749	12.798	2.106
-2.756	12.798	2.110
-2.774	12.798	2.121
-2.782	12.798	2.126
-2.802	12.798	2.138
-2.811	12.798	2.143
-2.831	12.798	2.155
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-2.890	12.798	2.189
-2.898	12.798	2.194
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-2.927	12.798	2.211
-2.948	12.798	2.223

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-3.358	12.798	2.430
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-3.356	12.798	2.424
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-1.023	14.468	0.581
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-0.897	14.468	0.497
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-0.863	14.468	0.475
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2.999	14.468	-1.851
3.035	14.468	-1.873
3.048	14.468	-1.881
3.084	14.468	-1.903
3.097	14.468	-1.912
3.139	14.468	-1.937
3.155	14.468	-1.947
3.197	14.468	-1.973
3.212	14.468	-1.982
3.254	14.468	-2.008
3.270	14.468	-2.018
3.312	14.468	-2.043
3.328	14.468	-2.053
3.370	14.468	-2.078
3.387	14.468	-2.088
3.429	14.468	-2.113
3.445	14.468	-2.123
3.466	14.468	-2.136
3.494	14.468	-2.152
3.531	14.468	-2.174
3.553	14.468	-2.187
3.573	14.468	-2.198
3.580	14.468	-2.203
3.598	14.468	-2.213
3.605	14.468	-2.217
3.612	14.468	-2.222
3.620	14.468	-2.226
3.627	14.468	-2.230
3.635	14.468	-2.235
3.639	14.468	-2.237
3.644	14.468	-2.240
3.650	14.468	-2.243
3.656	14.468	-2.246
3.661	14.468	-2.248
3.667	14.468	-2.250
3.674	14.468	-2.249
3.675	14.468	-2.249
3.680	14.468	-2.245
3.681	14.468	-2.245

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3.682	14.468	-2.243
3.683	14.468	-2.239
3.683	14.468	-2.238
3.682	14.468	-2.233
3.682	14.468	-2.233
3.680	14.468	-2.228
3.680	14.468	-2.227
3.676	14.468	-2.222
3.675	14.468	-2.222
3.669	14.468	-2.217
3.662	14.468	-2.211
3.650	14.468	-2.202
3.646	14.468	-2.199
3.633	14.468	-2.190
3.628	14.468	-2.186
3.611	14.468	-2.175
3.605	14.468	-2.171
3.587	14.468	-2.158
3.581	14.468	-2.154
3.566	14.468	-2.143
3.561	14.468	-2.139
3.547	14.468	-2.129
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3.535	14.468	-2.120
3.524	14.468	-2.111
3.523	14.468	-2.111
3.518	14.468	-2.107
3.498	14.468	-2.092
3.490	14.468	-2.086
3.471	14.468	-2.072
3.463	14.468	-2.066
3.444	14.468	-2.051
3.436	14.468	-2.045
3.417	14.468	-2.031
3.410	14.468	-2.025
3.391	14.468	-2.011
3.384	14.468	-2.005
3.365	14.468	-1.991
3.358	14.468	-1.985
3.339	14.468	-1.971
3.332	14.468	-1.966
3.314	14.468	-1.952

3.307	14.468	-1.946
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3.282	14.468	-1.927
3.264	14.468	-1.913
3.257	14.468	-1.907
3.239	14.468	-1.894
3.232	14.468	-1.888
3.214	14.468	-1.874
3.207	14.468	-1.869
3.189	14.468	-1.855
3.182	14.468	-1.849
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3.161	14.468	-1.833
3.147	14.468	-1.822
3.141	14.468	-1.817
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3.017	14.468	-1.721
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2.997	14.468	-1.704
2.982	14.468	-1.693
2.976	14.468	-1.688
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2.955	14.468	-1.672
2.940	14.468	-1.660
2.934	14.468	-1.656
2.919	14.468	-1.644
2.913	14.468	-1.640
2.898	14.468	-1.628
2.893	14.468	-1.623
2.878	14.468	-1.612
2.872	14.468	-1.607
2.857	14.468	-1.596
2.851	14.468	-1.591

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2.817	14.468	-1.565
2.793	14.468	-1.546
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2.760	14.468	-1.520
2.750	14.468	-1.513
2.727	14.468	-1.494
2.717	14.468	-1.487
2.705	14.468	-1.478
2.701	14.468	-1.474
2.689	14.468	-1.465
2.684	14.468	-1.461
2.672	14.468	-1.452
2.667	14.468	-1.448
2.656	14.468	-1.439
2.651	14.468	-1.436
2.639	14.468	-1.427
2.634	14.468	-1.423
2.623	14.468	-1.414
2.618	14.468	-1.410
2.606	14.468	-1.401
2.602	14.468	-1.398
2.590	14.468	-1.389
2.585	14.468	-1.385
2.573	14.468	-1.376
2.569	14.468	-1.373
2.557	14.468	-1.364
2.552	14.468	-1.360
2.541	14.468	-1.351
2.536	14.468	-1.347
2.524	14.468	-1.339
2.520	14.468	-1.335
2.508	14.468	-1.326
2.503	14.468	-1.323
2.492	14.468	-1.314
2.487	14.468	-1.310
2.475	14.468	-1.301
2.471	14.468	-1.298
2.459	14.468	-1.289
2.454	14.468	-1.285
2.443	14.468	-1.277
2.438	14.468	-1.273
2.427	14.468	-1.264

2.422	14.468	-1.261
2.410	14.468	-1.252
2.406	14.468	-1.249
2.394	14.468	-1.240
2.390	14.468	-1.236
2.378	14.468	-1.228
2.373	14.468	-1.224
2.362	14.468	-1.216
2.357	14.468	-1.212
2.346	14.468	-1.204
2.341	14.468	-1.200
2.329	14.468	-1.191
2.325	14.468	-1.188
2.313	14.468	-1.179
2.309	14.468	-1.176
2.297	14.468	-1.167
2.292	14.468	-1.164
2.281	14.468	-1.155
2.276	14.468	-1.152
2.265	14.468	-1.143
2.260	14.468	-1.140
2.249	14.468	-1.132
2.244	14.468	-1.128
2.232	14.468	-1.120
2.228	14.468	-1.116
2.216	14.468	-1.108
2.212	14.468	-1.104
2.200	14.468	-1.096
2.196	14.468	-1.093
2.182	14.468	-1.083
2.177	14.468	-1.079
2.163	14.468	-1.069
2.158	14.468	-1.065
2.144	14.468	-1.055
2.139	14.468	-1.051
2.125	14.468	-1.041
2.120	14.468	-1.037
2.106	14.468	-1.028
2.101	14.468	-1.024
2.087	14.468	-1.014
2.082	14.468	-1.010
2.068	14.468	-1.001
2.063	14.468	-0.997

2.050	14.468	-0.987
2.044	14.468	-0.983
2.032	14.468	-0.975
2.027	14.468	-0.971
2.015	14.468	-0.962
2.010	14.468	-0.959
1.998	14.468	-0.950
1.993	14.468	-0.947
1.981	14.468	-0.938
1.976	14.468	-0.935
1.964	14.468	-0.926
1.959	14.468	-0.923
1.947	14.468	-0.914
1.942	14.468	-0.911
1.930	14.468	-0.903
1.925	14.468	-0.899
1.913	14.468	-0.891
1.908	14.468	-0.887
1.896	14.468	-0.879
1.891	14.468	-0.876
1.879	14.468	-0.867
1.875	14.468	-0.864
1.863	14.468	-0.856
1.858	14.468	-0.852
1.846	14.468	-0.844
1.841	14.468	-0.841
1.826	14.468	-0.830
1.820	14.468	-0.826
1.805	14.468	-0.816
1.798	14.468	-0.811
1.783	14.468	-0.801
1.777	14.468	-0.797
1.762	14.468	-0.787
1.756	14.468	-0.783
1.741	14.468	-0.772
1.735	14.468	-0.768
1.720	14.468	-0.758
1.714	14.468	-0.754
1.698	14.468	-0.744
1.692	14.468	-0.740
1.677	14.468	-0.730
1.671	14.468	-0.725
1.656	14.468	-0.715

1.650	14.468	-0.711
1.635	14.468	-0.701
1.629	14.468	-0.697
1.613	14.468	-0.687
1.607	14.468	-0.683
1.592	14.468	-0.673
1.586	14.468	-0.669
1.571	14.468	-0.659
1.565	14.468	-0.655
1.549	14.468	-0.645
1.543	14.468	-0.641
1.528	14.468	-0.631
1.522	14.468	-0.627
1.507	14.468	-0.617
1.500	14.468	-0.613
1.488	14.468	-0.604
1.483	14.468	-0.601
1.470	14.468	-0.593
1.465	14.468	-0.589
1.451	14.468	-0.581
1.445	14.468	-0.577
1.431	14.468	-0.568
1.426	14.468	-0.564
1.412	14.468	-0.555
1.406	14.468	-0.552
1.392	14.468	-0.543
1.387	14.468	-0.539
1.373	14.468	-0.530
1.367	14.468	-0.527
1.353	14.468	-0.518
1.347	14.468	-0.514
1.333	14.468	-0.506
1.328	14.468	-0.502
1.314	14.468	-0.493
1.308	14.468	-0.489
1.294	14.468	-0.481
1.289	14.468	-0.477
1.275	14.468	-0.468
1.269	14.468	-0.465
1.255	14.468	-0.456
1.249	14.468	-0.452
1.235	14.468	-0.444
1.230	14.468	-0.440

1.216	14.468	-0.431
1.210	14.468	-0.428
1.196	14.468	-0.419
1.190	14.468	-0.415
1.176	14.468	-0.407
1.171	14.468	-0.403
1.157	14.468	-0.394
1.151	14.468	-0.391
1.133	14.468	-0.380
1.126	14.468	-0.375
1.107	14.468	-0.364
1.100	14.468	-0.359
1.082	14.468	-0.348
1.075	14.468	-0.344
1.057	14.468	-0.333
1.049	14.468	-0.328
1.032	14.468	-0.317
1.025	14.468	-0.313
1.008	14.468	-0.303
1.001	14.468	-0.298
0.984	14.468	-0.288
0.977	14.468	-0.284
0.960	14.468	-0.273
0.953	14.468	-0.269
0.936	14.468	-0.259
0.929	14.468	-0.254
0.912	14.468	-0.244
0.905	14.468	-0.239
0.888	14.468	-0.229
0.881	14.468	-0.225
0.864	14.468	-0.215
0.857	14.468	-0.210
0.839	14.468	-0.200
0.832	14.468	-0.195
0.815	14.468	-0.185
0.808	14.468	-0.181
0.791	14.468	-0.171
0.784	14.468	-0.166
0.767	14.468	-0.156
0.760	14.468	-0.152
0.743	14.468	-0.141
0.736	14.468	-0.137
0.719	14.468	-0.127

0.712	14.468	-0.122
0.695	14.468	-0.112
0.688	14.468	-0.108
0.670	14.468	-0.098
0.663	14.468	-0.093
0.646	14.468	-0.083
0.639	14.468	-0.079
0.622	14.468	-0.069
0.615	14.468	-0.064
0.598	14.468	-0.054
0.591	14.468	-0.050
0.574	14.468	-0.040
0.567	14.468	-0.035
0.550	14.468	-0.025
0.543	14.468	-0.021
0.526	14.468	-0.011
0.519	14.468	-0.006
0.502	14.468	0.004
0.495	14.468	0.008
0.477	14.468	0.019
0.470	14.468	0.023
0.453	14.468	0.033
0.446	14.468	0.037
0.429	14.468	0.048
0.422	14.468	0.052
0.405	14.468	0.062
0.398	14.468	0.066
0.381	14.468	0.076
0.374	14.468	0.081
0.357	14.468	0.091
0.350	14.468	0.095
0.333	14.468	0.105
0.326	14.468	0.110
0.309	14.468	0.120
0.302	14.468	0.124
0.285	14.468	0.134
0.278	14.468	0.139
0.261	14.468	0.149
0.254	14.468	0.153
0.238	14.468	0.163
0.231	14.468	0.167
0.214	14.468	0.177
0.207	14.468	0.181

0.191	14.468	0.191
0.184	14.468	0.195
0.167	14.468	0.205
0.159	14.468	0.210
0.142	14.468	0.220
0.135	14.468	0.224
0.118	14.468	0.235
0.110	14.468	0.239
0.093	14.468	0.249
0.086	14.468	0.254
0.069	14.468	0.264
0.061	14.468	0.268
0.044	14.468	0.279
0.037	14.468	0.283
0.020	14.468	0.293
0.012	14.468	0.298
-0.005	14.468	0.308
-0.012	14.468	0.313
-0.029	14.468	0.323
-0.037	14.468	0.327
-0.054	14.468	0.338
-0.061	14.468	0.342
-0.078	14.468	0.352
-0.086	14.468	0.357
-0.103	14.468	0.367
-0.110	14.468	0.371
-0.127	14.468	0.382
-0.135	14.468	0.386
-0.152	14.468	0.397
-0.159	14.468	0.401
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-0.184	14.468	0.416
-0.201	14.468	0.426
-0.208	14.468	0.430
-0.225	14.468	0.441
-0.233	14.468	0.445
-0.250	14.468	0.456
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-0.422	14.468	0.559
-0.429	14.468	0.564
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-0.454	14.468	0.578
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-0.496	14.468	0.604
-0.503	14.468	0.608
-0.521	14.468	0.618
-0.528	14.468	0.623
-0.545	14.468	0.633
-0.553	14.468	0.638
-0.570	14.468	0.648
-0.577	14.468	0.653
-0.595	14.468	0.663
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-0.623	14.468	0.680
-0.637	14.468	0.689
-0.643	14.468	0.692
-0.658	14.468	0.701
-0.664	14.468	0.705
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-0.703	14.468	0.728
-0.710	14.468	0.733
-0.729	14.468	0.744
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-0.763	14.468	0.764
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-0.841	14.468	0.812

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-0.885	14.468	0.839
-0.893	14.468	0.843
-0.912	14.468	0.854
-0.919	14.468	0.859
-0.938	14.468	0.870
-0.946	14.468	0.875
-0.964	14.468	0.886
-0.972	14.468	0.891
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-0.998	14.468	0.907
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-1.159	14.468	1.004
-1.179	14.468	1.016
-1.187	14.468	1.021
-1.207	14.468	1.032
-1.215	14.468	1.038
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-1.243	14.468	1.054
-1.263	14.468	1.066
-1.271	14.468	1.071
-1.291	14.468	1.083
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-1.375	14.468	1.133
-1.383	14.468	1.139
-1.403	14.468	1.150
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-1.431	14.468	1.167

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-1.487	14.468	1.201
-1.495	14.468	1.206
-1.515	14.468	1.218
-1.524	14.468	1.223
-1.543	14.468	1.234
-1.552	14.468	1.239
-1.556	14.468	1.242
-1.557	14.468	1.243
-1.576	14.468	1.254
-1.584	14.468	1.259
-1.603	14.468	1.270
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-1.630	14.468	1.286
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-1.657	14.468	1.302
-1.666	14.468	1.307
-1.685	14.468	1.319
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-1.720	14.468	1.340
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-1.856	14.468	1.420
-1.875	14.468	1.431
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-1.902	14.468	1.447
-1.911	14.468	1.452
-1.930	14.468	1.464
-1.938	14.468	1.468
-1.957	14.468	1.480
-1.965	14.468	1.484
-1.984	14.468	1.496
-1.993	14.468	1.501

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-2.020	14.468	1.517
-2.039	14.468	1.528
-2.047	14.468	1.532
-2.066	14.468	1.544
-2.075	14.468	1.548
-2.094	14.468	1.559
-2.102	14.468	1.564
-2.121	14.468	1.575
-2.129	14.468	1.580
-2.149	14.468	1.591
-2.157	14.468	1.596
-2.176	14.468	1.607
-2.184	14.468	1.612
-2.204	14.468	1.623
-2.212	14.468	1.628
-2.231	14.468	1.639
-2.239	14.468	1.644
-2.259	14.468	1.655
-2.267	14.468	1.660
-2.286	14.468	1.671
-2.295	14.468	1.676
-2.314	14.468	1.687
-2.322	14.468	1.691
-2.342	14.468	1.702
-2.350	14.468	1.707
-2.369	14.468	1.718
-2.378	14.468	1.723
-2.397	14.468	1.734
-2.405	14.468	1.739
-2.425	14.468	1.750
-2.433	14.468	1.755
-2.446	14.468	1.762
-2.470	14.468	1.775
-2.482	14.468	1.782
-2.506	14.468	1.796
-2.523	14.468	1.806
-2.531	14.468	1.810
-2.548	14.468	1.820
-2.556	14.468	1.824
-2.573	14.468	1.834
-2.581	14.468	1.838
-2.598	14.468	1.848

-2.606	14.468	1.852
-2.624	14.468	1.862
-2.631	14.468	1.866
-2.649	14.468	1.876
-2.656	14.468	1.880
-2.674	14.468	1.890
-2.682	14.468	1.894
-2.699	14.468	1.904
-2.707	14.468	1.908
-2.725	14.468	1.918
-2.732	14.468	1.922
-2.750	14.468	1.932
-2.758	14.468	1.936
-2.775	14.468	1.946
-2.783	14.468	1.950
-2.801	14.468	1.960
-2.808	14.468	1.964
-2.826	14.468	1.973
-2.834	14.468	1.978
-2.852	14.468	1.987
-2.860	14.468	1.992
-2.877	14.468	2.001
-2.885	14.468	2.006
-2.903	14.468	2.015
-2.911	14.468	2.020
-2.932	14.468	2.031
-2.941	14.468	2.036
-2.962	14.468	2.047
-2.971	14.468	2.052
-2.992	14.468	2.063
-3.002	14.468	2.068
-3.023	14.468	2.080
-3.032	14.468	2.085
-3.053	14.468	2.096
-3.062	14.468	2.101
-3.084	14.468	2.112
-3.093	14.468	2.117
-3.114	14.468	2.128
-3.124	14.468	2.133
-3.145	14.468	2.145
-3.154	14.468	2.150
-3.176	14.468	2.161
-3.185	14.468	2.166

-3.207	14.468	2.177
-3.216	14.468	2.182
-3.238	14.468	2.193
-3.247	14.468	2.198
-3.269	14.468	2.209
-3.278	14.468	2.214
-3.300	14.468	2.225
-3.309	14.468	2.230
-3.328	14.468	2.240
-3.329	14.468	2.240
-3.384	14.468	2.269
-3.409	14.468	2.282
-3.439	14.468	2.298
-3.456	14.468	2.307
-3.462	14.468	2.310
-3.477	14.468	2.317
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-3.495	14.468	2.325
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-3.514	14.468	2.328
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-3.519	14.468	2.325
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-3.514	14.468	2.304
-3.512	14.468	2.301
-3.506	14.468	2.297
-3.495	14.468	2.288
-3.488	14.468	2.284
-3.473	14.468	2.274
-3.427	14.468	2.243
-3.400	14.468	2.225
-3.386	14.468	2.216
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-3.502	16.110	2.088

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-3.484	16.110	2.077
-3.455	16.110	2.059
-3.455	16.110	2.059
-3.426	16.110	2.042
-3.426	16.110	2.041
-3.398	16.110	2.024
-3.397	16.110	2.024
-3.369	16.110	2.006
-3.369	16.110	2.006
-3.368	16.110	2.006
-3.340	16.110	1.989
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-3.340	16.110	1.988
-3.311	16.110	1.971
-3.311	16.110	1.971
-3.283	16.110	1.954
-3.282	16.110	1.953
-3.254	16.110	1.936
-3.254	16.110	1.936
-3.254	16.110	1.936
-3.226	16.110	1.919
-3.225	16.110	1.918
-3.197	16.110	1.901
-3.197	16.110	1.901
-3.169	16.110	1.884
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-3.169	16.110	1.883
-3.141	16.110	1.866
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-3.112	16.110	1.849
-3.112	16.110	1.849
-3.083	16.110	1.831
-3.082	16.110	1.830
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-3.053	16.110	1.812
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-2.995	16.110	1.776
-2.966	16.110	1.759

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-2.936	16.110	1.740
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-2.878	16.110	1.705
-2.878	16.110	1.704
-2.849	16.110	1.687
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-2.820	16.110	1.669
-2.820	16.110	1.669
-2.819	16.110	1.668
-2.791	16.110	1.651
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-2.762	16.110	1.633
-2.761	16.110	1.632
-2.732	16.110	1.615
-2.732	16.110	1.614
-2.703	16.110	1.597
-2.703	16.110	1.596
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-2.674	16.110	1.578
-2.645	16.110	1.561
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-2.621	16.110	1.546
-2.620	16.110	1.545
-2.587	16.110	1.525
-2.587	16.110	1.525
-2.553	16.110	1.504
-2.553	16.110	1.504
-2.537	16.110	1.494
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-2.486	16.110	1.462
-2.485	16.110	1.462
-2.469	16.110	1.452
-2.468	16.110	1.451
-2.452	16.110	1.441
-2.451	16.110	1.441
-2.435	16.110	1.431

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-2.417	16.110	1.420
-2.401	16.110	1.410
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-2.384	16.110	1.400
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-2.350	16.110	1.379
-2.350	16.110	1.378
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-2.333	16.110	1.368
-2.316	16.110	1.358
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-2.299	16.110	1.347
-2.283	16.110	1.337
-2.282	16.110	1.336
-2.266	16.110	1.326
-2.265	16.110	1.326
-2.249	16.110	1.316
-2.248	16.110	1.315
-2.232	16.110	1.305
-2.231	16.110	1.305
-2.215	16.110	1.295
-2.214	16.110	1.294
-2.198	16.110	1.284
-2.197	16.110	1.284
-2.181	16.110	1.274
-2.180	16.110	1.274
-2.164	16.110	1.264
-2.163	16.110	1.263
-2.147	16.110	1.253
-2.146	16.110	1.253
-2.130	16.110	1.243
-2.129	16.110	1.242
-2.113	16.110	1.232
-2.112	16.110	1.232
-2.096	16.110	1.222
-2.095	16.110	1.221
-2.079	16.110	1.211
-2.078	16.110	1.211

-2.058	16.110	1.198
-2.057	16.110	1.198
-2.037	16.110	1.185
-2.036	16.110	1.185
-2.016	16.110	1.172
-2.015	16.110	1.172
-1.994	16.110	1.159
-1.994	16.110	1.159
-1.973	16.110	1.146
-1.972	16.110	1.146
-1.952	16.110	1.133
-1.951	16.110	1.133
-1.931	16.110	1.120
-1.930	16.110	1.120
-1.910	16.110	1.107
-1.909	16.110	1.107
-1.889	16.110	1.094
-1.888	16.110	1.094
-1.868	16.110	1.082
-1.867	16.110	1.081
-1.846	16.110	1.069
-1.846	16.110	1.068
-1.825	16.110	1.056
-1.824	16.110	1.055
-1.804	16.110	1.043
-1.803	16.110	1.042
-1.783	16.110	1.030
-1.782	16.110	1.029
-1.762	16.110	1.017
-1.761	16.110	1.017
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-1.740	16.110	1.004
-1.739	16.110	1.003
-1.738	16.110	1.003
-1.715	16.110	0.988
-1.713	16.110	0.988
-1.690	16.110	0.973
-1.689	16.110	0.973
-1.665	16.110	0.958
-1.664	16.110	0.958
-1.640	16.110	0.943
-1.639	16.110	0.943
-1.616	16.110	0.928

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-1.591	16.110	0.913
-1.590	16.110	0.913
-1.566	16.110	0.899
-1.565	16.110	0.898
-1.542	16.110	0.884
-1.541	16.110	0.883
-1.517	16.110	0.869
-1.516	16.110	0.868
-1.492	16.110	0.854
-1.491	16.110	0.853
-1.468	16.110	0.839
-1.467	16.110	0.838
-1.443	16.110	0.824
-1.442	16.110	0.824
-1.418	16.110	0.810
-1.417	16.110	0.809
-1.394	16.110	0.795
-1.393	16.110	0.794
-1.369	16.110	0.780
-1.368	16.110	0.779
-1.344	16.110	0.765
-1.343	16.110	0.765
-1.310	16.110	0.745
-1.310	16.110	0.745
-1.282	16.110	0.728
-1.281	16.110	0.728
-1.254	16.110	0.711
-1.253	16.110	0.711
-1.226	16.110	0.695
-1.225	16.110	0.694
-1.198	16.110	0.678
-1.197	16.110	0.678
-1.169	16.110	0.661
-1.168	16.110	0.661
-1.141	16.110	0.645
-1.140	16.110	0.644
-1.113	16.110	0.628
-1.112	16.110	0.628
-1.084	16.110	0.611
-1.084	16.110	0.611
-1.057	16.110	0.595
-1.056	16.110	0.595

-1.055	16.110	0.594
-1.028	16.110	0.578
-1.027	16.110	0.578
-1.000	16.110	0.562
-0.999	16.110	0.561
-0.971	16.110	0.545
-0.970	16.110	0.545
-0.943	16.110	0.529
-0.942	16.110	0.528
-0.914	16.110	0.512
-0.914	16.110	0.512
-0.886	16.110	0.496
-0.885	16.110	0.495
-0.858	16.110	0.479
-0.857	16.110	0.479
-0.838	16.110	0.468
-0.837	16.110	0.468
-0.818	16.110	0.457
-0.817	16.110	0.456
-0.799	16.110	0.446
-0.798	16.110	0.445
-0.779	16.110	0.434
-0.779	16.110	0.434
-0.754	16.110	0.420
-0.754	16.110	0.420
-0.753	16.110	0.419
-0.728	16.110	0.405
-0.727	16.110	0.404
-0.702	16.110	0.390
-0.701	16.110	0.390
-0.676	16.110	0.375
-0.676	16.110	0.375
-0.651	16.110	0.361
-0.650	16.110	0.360
-0.625	16.110	0.346
-0.624	16.110	0.346
-0.599	16.110	0.332
-0.598	16.110	0.331
-0.573	16.110	0.317
-0.572	16.110	0.316
-0.548	16.110	0.302
-0.547	16.110	0.302
-0.522	16.110	0.288

-0.521	16.110	0.287
-0.496	16.110	0.273
-0.495	16.110	0.273
-0.470	16.110	0.259
-0.470	16.110	0.259
-0.469	16.110	0.258
-0.444	16.110	0.244
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-0.418	16.110	0.230
-0.417	16.110	0.229
-0.392	16.110	0.215
-0.391	16.110	0.215
-0.366	16.110	0.201
-0.365	16.110	0.200
-0.340	16.110	0.187
-0.339	16.110	0.186
-0.315	16.110	0.172
-0.314	16.110	0.172
-0.289	16.110	0.158
-0.288	16.110	0.158
-0.263	16.110	0.144
-0.262	16.110	0.143
-0.237	16.110	0.130
-0.236	16.110	0.129
-0.211	16.110	0.116
-0.210	16.110	0.115
-0.185	16.110	0.101
-0.185	16.110	0.101
-0.160	16.110	0.087
-0.160	16.110	0.087
-0.159	16.110	0.087
-0.134	16.110	0.073
-0.133	16.110	0.073
-0.108	16.110	0.059
-0.107	16.110	0.058
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-0.081	16.110	0.044
-0.056	16.110	0.031
-0.055	16.110	0.030
-0.030	16.110	0.017
-0.029	16.110	0.016
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-0.003	16.110	0.002

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0.023	16.110	-0.012
0.048	16.110	-0.025
0.050	16.110	-0.026
0.089	16.110	-0.047
0.091	16.110	-0.048
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0.131	16.110	-0.069
0.155	16.110	-0.082
0.156	16.110	-0.083
0.180	16.110	-0.096
0.182	16.110	-0.096
0.206	16.110	-0.109
0.207	16.110	-0.110
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0.233	16.110	-0.123
0.257	16.110	-0.136
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0.308	16.110	-0.163
0.309	16.110	-0.163
0.333	16.110	-0.176
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0.359	16.110	-0.189
0.360	16.110	-0.190
0.385	16.110	-0.203
0.386	16.110	-0.203
0.410	16.110	-0.216
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0.436	16.110	-0.229
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0.489	16.110	-0.257
0.513	16.110	-0.269
0.515	16.110	-0.270
0.539	16.110	-0.283
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0.567	16.110	-0.297
0.568	16.110	-0.297
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0.595	16.110	-0.311
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0.623	16.110	-0.325
0.649	16.110	-0.339
0.650	16.110	-0.339
0.676	16.110	-0.353
0.677	16.110	-0.353
0.703	16.110	-0.366
0.705	16.110	-0.367
0.731	16.110	-0.380
0.732	16.110	-0.381
0.758	16.110	-0.394
0.759	16.110	-0.394
0.760	16.110	-0.395
0.786	16.110	-0.408
0.788	16.110	-0.409
0.814	16.110	-0.422
0.815	16.110	-0.423
0.841	16.110	-0.436
0.843	16.110	-0.437
0.869	16.110	-0.450
0.871	16.110	-0.451
0.897	16.110	-0.464
0.898	16.110	-0.465
0.924	16.110	-0.478
0.926	16.110	-0.479
0.952	16.110	-0.492
0.954	16.110	-0.493
0.980	16.110	-0.506
0.982	16.110	-0.507
1.014	16.110	-0.523
1.016	16.110	-0.524
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1.049	16.110	-0.541
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1.072	16.110	-0.552
1.074	16.110	-0.553
1.096	16.110	-0.564
1.097	16.110	-0.565
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1.286	16.110	-0.659
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1.357	16.110	-0.694
1.379	16.110	-0.705
1.379	16.110	-0.705
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1.428	16.110	-0.730
1.456	16.110	-0.744
1.458	16.110	-0.745
1.486	16.110	-0.759
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1.638	16.110	-0.836
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1.668	16.110	-0.851
1.696	16.110	-0.865

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1.698	16.110	-0.866
1.725	16.110	-0.880
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1.814	16.110	-0.925
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1.876	16.110	-0.957
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1.904	16.110	-0.972
1.920	16.110	-0.980
1.922	16.110	-0.981
1.938	16.110	-0.989
1.940	16.110	-0.990
1.956	16.110	-0.998
1.957	16.110	-0.999
1.973	16.110	-1.008
1.975	16.110	-1.009
1.995	16.110	-1.019
1.995	16.110	-1.019
2.014	16.110	-1.029
2.016	16.110	-1.030
2.018	16.110	-1.031
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2.039	16.110	-1.042
2.058	16.110	-1.052
2.060	16.110	-1.053
2.079	16.110	-1.063
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2.103	16.110	-1.075
2.121	16.110	-1.085
2.124	16.110	-1.087
2.143	16.110	-1.097
2.145	16.110	-1.098
2.164	16.110	-1.108
2.166	16.110	-1.109

2.185	16.110	-1.119
2.187	16.110	-1.120
2.206	16.110	-1.130
2.208	16.110	-1.131
2.227	16.110	-1.141
2.229	16.110	-1.143
2.248	16.110	-1.153
2.250	16.110	-1.154
2.269	16.110	-1.164
2.272	16.110	-1.165
2.290	16.110	-1.175
2.292	16.110	-1.176
2.310	16.110	-1.186
2.311	16.110	-1.187
2.315	16.110	-1.189
2.343	16.110	-1.204
2.347	16.110	-1.206
2.375	16.110	-1.221
2.379	16.110	-1.224
2.407	16.110	-1.239
2.411	16.110	-1.241
2.439	16.110	-1.256
2.444	16.110	-1.259
2.471	16.110	-1.274
2.476	16.110	-1.276
2.503	16.110	-1.291
2.508	16.110	-1.294
2.535	16.110	-1.309
2.540	16.110	-1.312
2.567	16.110	-1.327
2.572	16.110	-1.330
2.599	16.110	-1.344
2.600	16.110	-1.345
2.627	16.110	-1.360
2.631	16.110	-1.362
2.637	16.110	-1.365
2.663	16.110	-1.380
2.669	16.110	-1.383
2.696	16.110	-1.398
2.702	16.110	-1.401
2.728	16.110	-1.416
2.734	16.110	-1.420
2.760	16.110	-1.434

2.767	16.110	-1.438
2.792	16.110	-1.452
2.799	16.110	-1.456
2.824	16.110	-1.470
2.832	16.110	-1.475
2.859	16.110	-1.490
2.863	16.110	-1.492
2.890	16.110	-1.507
2.895	16.110	-1.509
2.901	16.110	-1.513
2.920	16.110	-1.524
2.927	16.110	-1.528
2.946	16.110	-1.538
2.953	16.110	-1.542
2.972	16.110	-1.553
2.979	16.110	-1.557
2.997	16.110	-1.567
3.005	16.110	-1.572
3.023	16.110	-1.582
3.031	16.110	-1.586
3.049	16.110	-1.596
3.057	16.110	-1.601
3.075	16.110	-1.611
3.084	16.110	-1.616
3.100	16.110	-1.626
3.110	16.110	-1.631
3.126	16.110	-1.640
3.133	16.110	-1.644
3.149	16.110	-1.653
3.152	16.110	-1.655
3.162	16.110	-1.660
3.178	16.110	-1.669
3.188	16.110	-1.675
3.203	16.110	-1.684
3.215	16.110	-1.690
3.229	16.110	-1.698
3.241	16.110	-1.705
3.255	16.110	-1.713
3.267	16.110	-1.719
3.280	16.110	-1.727
3.281	16.110	-1.727
3.294	16.110	-1.735
3.306	16.110	-1.742

3.323	16.110	-1.751
3.336	16.110	-1.759
3.354	16.110	-1.769
3.367	16.110	-1.776
3.386	16.110	-1.786
3.397	16.110	-1.792
3.408	16.110	-1.799
3.418	16.110	-1.804
3.427	16.110	-1.809
3.468	16.110	-1.832
3.483	16.110	-1.841
3.487	16.110	-1.843
3.538	16.110	-1.871
3.548	16.110	-1.877
3.549	16.110	-1.878
3.559	16.110	-1.883
3.609	16.110	-1.911
3.616	16.110	-1.915
3.640	16.110	-1.928
3.657	16.110	-1.938
3.669	16.110	-1.945
3.670	16.110	-1.945
3.674	16.110	-1.947
3.676	16.110	-1.949
3.699	16.110	-1.961
3.703	16.110	-1.964
3.721	16.110	-1.974
3.771	16.110	-2.001
3.781	16.110	-2.007
3.787	16.110	-2.010
3.810	16.110	-2.022
3.815	16.110	-2.025
3.836	16.110	-2.036
3.836	16.110	-2.036
3.839	16.110	-2.038
3.852	16.110	-2.044
3.855	16.110	-2.046
3.867	16.110	-2.052
3.869	16.110	-2.053
3.877	16.110	-2.057
3.879	16.110	-2.058
3.888	16.110	-2.062
3.890	16.110	-2.063

3.892	16.110	-2.063
3.901	16.110	-2.066
3.901	16.110	-2.066
3.908	16.110	-2.065
3.909	16.110	-2.065
3.911	16.110	-2.064
3.915	16.110	-2.061
3.915	16.110	-2.060
3.916	16.110	-2.059
3.916	16.110	-2.058
3.916	16.110	-2.055
3.916	16.110	-2.054
3.915	16.110	-2.050
3.914	16.110	-2.049
3.912	16.110	-2.045
3.912	16.110	-2.045
3.908	16.110	-2.040
3.907	16.110	-2.039
3.907	16.110	-2.039
3.896	16.110	-2.030
3.894	16.110	-2.029
3.891	16.110	-2.027
3.877	16.110	-2.018
3.876	16.110	-2.017
3.861	16.110	-2.007
3.857	16.110	-2.005
3.837	16.110	-1.992
3.832	16.110	-1.989
3.812	16.110	-1.976
3.807	16.110	-1.973
3.789	16.110	-1.962
3.786	16.110	-1.959
3.754	16.110	-1.938
3.747	16.110	-1.934
3.717	16.110	-1.914
3.711	16.110	-1.910
3.662	16.110	-1.877
3.653	16.110	-1.871
3.605	16.110	-1.839
3.597	16.110	-1.833
3.573	16.110	-1.817
3.569	16.110	-1.814
3.569	16.110	-1.814

3.545	16.110	-1.798
3.541	16.110	-1.796
3.518	16.110	-1.780
3.514	16.110	-1.778
3.491	16.110	-1.762
3.487	16.110	-1.759
3.464	16.110	-1.744
3.461	16.110	-1.741
3.437	16.110	-1.725
3.434	16.110	-1.723
3.411	16.110	-1.707
3.407	16.110	-1.705
3.406	16.110	-1.705
3.383	16.110	-1.689
3.381	16.110	-1.687
3.361	16.110	-1.674
3.359	16.110	-1.673
3.340	16.110	-1.659
3.337	16.110	-1.658
3.318	16.110	-1.644
3.315	16.110	-1.643
3.296	16.110	-1.629
3.293	16.110	-1.628
3.274	16.110	-1.615
3.271	16.110	-1.613
3.252	16.110	-1.600
3.249	16.110	-1.598
3.229	16.110	-1.585
3.227	16.110	-1.583
3.207	16.110	-1.570
3.205	16.110	-1.568
3.185	16.110	-1.555
3.183	16.110	-1.553
3.163	16.110	-1.540
3.161	16.110	-1.538
3.141	16.110	-1.525
3.139	16.110	-1.523
3.119	16.110	-1.510
3.117	16.110	-1.508
3.097	16.110	-1.494
3.095	16.110	-1.493
3.074	16.110	-1.479
3.072	16.110	-1.478

3.071	16.110	-1.478
3.051	16.110	-1.464
3.050	16.110	-1.463
3.030	16.110	-1.449
3.028	16.110	-1.448
3.012	16.110	-1.437
3.010	16.110	-1.436
2.994	16.110	-1.425
2.992	16.110	-1.424
2.976	16.110	-1.413
2.974	16.110	-1.412
2.958	16.110	-1.401
2.957	16.110	-1.400
2.940	16.110	-1.389
2.939	16.110	-1.388
2.922	16.110	-1.377
2.921	16.110	-1.376
2.905	16.110	-1.365
2.903	16.110	-1.364
2.887	16.110	-1.354
2.886	16.110	-1.353
2.885	16.110	-1.353
2.869	16.110	-1.342
2.868	16.110	-1.341
2.851	16.110	-1.330
2.850	16.110	-1.329
2.834	16.110	-1.318
2.832	16.110	-1.317
2.816	16.110	-1.307
2.815	16.110	-1.306
2.799	16.110	-1.295
2.797	16.110	-1.294
2.781	16.110	-1.283
2.780	16.110	-1.283
2.763	16.110	-1.272
2.762	16.110	-1.271
2.746	16.110	-1.260
2.745	16.110	-1.260
2.745	16.110	-1.260
2.743	16.110	-1.259
2.727	16.110	-1.248
2.726	16.110	-1.247
2.710	16.110	-1.237

2.708	16.110	-1.236
2.692	16.110	-1.225
2.691	16.110	-1.225
2.675	16.110	-1.214
2.673	16.110	-1.213
2.657	16.110	-1.203
2.656	16.110	-1.202
2.640	16.110	-1.191
2.639	16.110	-1.191
2.622	16.110	-1.180
2.621	16.110	-1.180
2.605	16.110	-1.169
2.604	16.110	-1.168
2.588	16.110	-1.158
2.586	16.110	-1.157
2.570	16.110	-1.147
2.569	16.110	-1.146
2.553	16.110	-1.136
2.552	16.110	-1.135
2.535	16.110	-1.125
2.534	16.110	-1.124
2.518	16.110	-1.114
2.517	16.110	-1.113
2.501	16.110	-1.103
2.500	16.110	-1.102
2.483	16.110	-1.092
2.482	16.110	-1.091
2.466	16.110	-1.081
2.465	16.110	-1.080
2.449	16.110	-1.070
2.448	16.110	-1.069
2.431	16.110	-1.059
2.430	16.110	-1.058
2.414	16.110	-1.048
2.413	16.110	-1.048
2.397	16.110	-1.038
2.396	16.110	-1.037
2.379	16.110	-1.027
2.378	16.110	-1.026
2.362	16.110	-1.016
2.361	16.110	-1.016
2.345	16.110	-1.006
2.344	16.110	-1.005

2.327	16.110	-0.995
2.326	16.110	-0.994
2.307	16.110	-0.983
2.306	16.110	-0.982
2.287	16.110	-0.970
2.285	16.110	-0.969
2.266	16.110	-0.958
2.265	16.110	-0.957
2.246	16.110	-0.946
2.245	16.110	-0.945
2.226	16.110	-0.933
2.224	16.110	-0.932
2.205	16.110	-0.921
2.204	16.110	-0.920
2.185	16.110	-0.909
2.183	16.110	-0.908
2.164	16.110	-0.897
2.163	16.110	-0.896
2.146	16.110	-0.886
2.145	16.110	-0.885
2.127	16.110	-0.875
2.126	16.110	-0.874
2.109	16.110	-0.864
2.108	16.110	-0.863
2.090	16.110	-0.853
2.089	16.110	-0.852
2.072	16.110	-0.842
2.071	16.110	-0.842
2.054	16.110	-0.832
2.053	16.110	-0.831
2.035	16.110	-0.821
2.034	16.110	-0.820
2.017	16.110	-0.811
2.016	16.110	-0.810
1.999	16.110	-0.800
1.998	16.110	-0.799
1.981	16.110	-0.789
1.979	16.110	-0.789
1.962	16.110	-0.779
1.961	16.110	-0.778
1.944	16.110	-0.768
1.942	16.110	-0.768
1.921	16.110	-0.755

1.919	16.110	-0.754
1.898	16.110	-0.742
1.896	16.110	-0.741
1.875	16.110	-0.729
1.873	16.110	-0.728
1.852	16.110	-0.716
1.850	16.110	-0.715
1.828	16.110	-0.703
1.827	16.110	-0.702
1.805	16.110	-0.690
1.804	16.110	-0.689
1.782	16.110	-0.677
1.781	16.110	-0.676
1.759	16.110	-0.664
1.757	16.110	-0.663
1.736	16.110	-0.651
1.734	16.110	-0.651
1.713	16.110	-0.638
1.711	16.110	-0.638
1.689	16.110	-0.626
1.688	16.110	-0.625
1.666	16.110	-0.613
1.665	16.110	-0.612
1.643	16.110	-0.600
1.641	16.110	-0.599
1.620	16.110	-0.587
1.618	16.110	-0.587
1.596	16.110	-0.575
1.595	16.110	-0.574
1.573	16.110	-0.562
1.572	16.110	-0.561
1.554	16.110	-0.551
1.553	16.110	-0.551
1.534	16.110	-0.541
1.533	16.110	-0.540
1.513	16.110	-0.529
1.512	16.110	-0.529
1.492	16.110	-0.518
1.491	16.110	-0.517
1.471	16.110	-0.506
1.470	16.110	-0.506
1.450	16.110	-0.495
1.449	16.110	-0.494

1.429	16.110	-0.484
1.428	16.110	-0.483
1.408	16.110	-0.472
1.406	16.110	-0.471
1.387	16.110	-0.461
1.385	16.110	-0.460
1.366	16.110	-0.449
1.364	16.110	-0.449
1.344	16.110	-0.438
1.343	16.110	-0.437
1.323	16.110	-0.427
1.322	16.110	-0.426
1.302	16.110	-0.415
1.301	16.110	-0.415
1.281	16.110	-0.404
1.280	16.110	-0.403
1.260	16.110	-0.393
1.259	16.110	-0.392
1.239	16.110	-0.381
1.238	16.110	-0.381
1.218	16.110	-0.370
1.217	16.110	-0.369
1.197	16.110	-0.359
1.171	16.110	-0.345
1.170	16.110	-0.344
1.144	16.110	-0.330
1.143	16.110	-0.330
1.116	16.110	-0.316
1.115	16.110	-0.315
1.089	16.110	-0.301
1.088	16.110	-0.301
1.087	16.110	-0.300
1.063	16.110	-0.287
1.061	16.110	-0.286
1.037	16.110	-0.273
1.036	16.110	-0.273
1.012	16.110	-0.260
1.010	16.110	-0.259
0.986	16.110	-0.246
0.984	16.110	-0.245
0.960	16.110	-0.232
0.959	16.110	-0.232
0.935	16.110	-0.219

0.933	16.110	-0.218
0.909	16.110	-0.205
0.908	16.110	-0.204
0.884	16.110	-0.192
0.882	16.110	-0.191
0.858	16.110	-0.178
0.857	16.110	-0.177
0.833	16.110	-0.164
0.831	16.110	-0.164
0.807	16.110	-0.151
0.806	16.110	-0.150
0.782	16.110	-0.137
0.781	16.110	-0.136
0.757	16.110	-0.123
0.755	16.110	-0.123
0.731	16.110	-0.110
0.730	16.110	-0.109
0.706	16.110	-0.096
0.704	16.110	-0.096
0.680	16.110	-0.083
0.679	16.110	-0.082
0.655	16.110	-0.069
0.654	16.110	-0.068
0.630	16.110	-0.056
0.628	16.110	-0.055
0.604	16.110	-0.042
0.603	16.110	-0.041
0.579	16.110	-0.028
0.578	16.110	-0.028
0.554	16.110	-0.015
0.552	16.110	-0.014
0.529	16.110	-0.001
0.527	16.110	-0.001
0.503	16.110	0.012
0.502	16.110	0.013
0.478	16.110	0.026
0.477	16.110	0.027
0.453	16.110	0.039
0.452	16.110	0.040
0.428	16.110	0.053
0.426	16.110	0.054
0.403	16.110	0.066
0.401	16.110	0.067

0.377	16.110	0.080
0.376	16.110	0.081
0.352	16.110	0.094
0.351	16.110	0.094
0.327	16.110	0.107
0.326	16.110	0.108
0.302	16.110	0.121
0.301	16.110	0.121
0.277	16.110	0.134
0.276	16.110	0.135
0.252	16.110	0.147
0.251	16.110	0.148
0.228	16.110	0.161
0.181	16.110	0.186
0.179	16.110	0.187
0.178	16.110	0.188
0.154	16.110	0.201
0.152	16.110	0.201
0.128	16.110	0.215
0.127	16.110	0.215
0.103	16.110	0.228
0.101	16.110	0.229
0.077	16.110	0.242
0.076	16.110	0.243
0.052	16.110	0.256
0.050	16.110	0.257
0.026	16.110	0.270
0.025	16.110	0.270
0.001	16.110	0.284
-0.001	16.110	0.284
-0.025	16.110	0.297
-0.026	16.110	0.298
-0.050	16.110	0.311
-0.052	16.110	0.312
-0.076	16.110	0.325
-0.077	16.110	0.326
-0.101	16.110	0.339
-0.103	16.110	0.340
-0.127	16.110	0.353
-0.128	16.110	0.353
-0.152	16.110	0.367
-0.154	16.110	0.367
-0.178	16.110	0.381

-0.179	16.110	0.381
-0.203	16.110	0.394
-0.205	16.110	0.395
-0.229	16.110	0.408
-0.230	16.110	0.409
-0.254	16.110	0.422
-0.256	16.110	0.423
-0.280	16.110	0.436
-0.281	16.110	0.437
-0.306	16.110	0.450
-0.307	16.110	0.451
-0.331	16.110	0.464
-0.332	16.110	0.465
-0.357	16.110	0.478
-0.358	16.110	0.479
-0.382	16.110	0.492
-0.384	16.110	0.493
-0.408	16.110	0.506
-0.409	16.110	0.507
-0.433	16.110	0.520
-0.435	16.110	0.521
-0.459	16.110	0.534
-0.460	16.110	0.534
-0.485	16.110	0.548
-0.485	16.110	0.548
-0.510	16.110	0.562
-0.511	16.110	0.562
-0.536	16.110	0.576
-0.537	16.110	0.576
-0.562	16.110	0.590
-0.562	16.110	0.591
-0.587	16.110	0.604
-0.588	16.110	0.605
-0.613	16.110	0.618
-0.614	16.110	0.619
-0.639	16.110	0.632
-0.640	16.110	0.633
-0.682	16.110	0.656
-0.683	16.110	0.656
-0.725	16.110	0.679
-0.725	16.110	0.680
-0.752	16.110	0.694
-0.752	16.110	0.695

-0.779	16.110	0.709
-0.780	16.110	0.710
-0.806	16.110	0.724
-0.807	16.110	0.725
-0.833	16.110	0.739
-0.834	16.110	0.740
-0.860	16.110	0.754
-0.861	16.110	0.754
-0.888	16.110	0.769
-0.888	16.110	0.769
-0.915	16.110	0.784
-0.916	16.110	0.784
-0.942	16.110	0.799
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-0.998	16.110	0.830
-1.024	16.110	0.844
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-1.052	16.110	0.860
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-1.107	16.110	0.890
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-1.135	16.110	0.905
-1.162	16.110	0.920
-1.162	16.110	0.920
-1.191	16.110	0.936
-1.191	16.110	0.936
-1.220	16.110	0.952
-1.221	16.110	0.952
-1.249	16.110	0.968
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-1.278	16.110	0.984
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-1.308	16.110	1.000
-1.337	16.110	1.016
-1.337	16.110	1.016
-1.366	16.110	1.032

-1.366	16.110	1.032
-1.395	16.110	1.048
-1.396	16.110	1.048
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-1.454	16.110	1.080
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-1.484	16.110	1.096
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-1.513	16.110	1.112
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-1.542	16.110	1.128
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-1.572	16.110	1.144
-1.600	16.110	1.160
-1.601	16.110	1.160
-1.630	16.110	1.176
-1.631	16.110	1.176
-1.635	16.110	1.179
-1.636	16.110	1.179
-1.663	16.110	1.194
-1.664	16.110	1.195
-1.692	16.110	1.210
-1.692	16.110	1.210
-1.720	16.110	1.225
-1.721	16.110	1.226
-1.749	16.110	1.241
-1.749	16.110	1.241
-1.777	16.110	1.256
-1.778	16.110	1.256
-1.805	16.110	1.272
-1.806	16.110	1.272
-1.834	16.110	1.287
-1.834	16.110	1.287
-1.862	16.110	1.302
-1.863	16.110	1.303
-1.891	16.110	1.318
-1.891	16.110	1.318
-1.919	16.110	1.333
-1.920	16.110	1.333
-1.948	16.110	1.348
-1.948	16.110	1.349

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-1.977	16.110	1.364
-2.005	16.110	1.379
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-2.033	16.110	1.394
-2.034	16.110	1.395
-2.062	16.110	1.410
-2.062	16.110	1.410
-2.090	16.110	1.425
-2.091	16.110	1.425
-2.119	16.110	1.440
-2.119	16.110	1.440
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-2.148	16.110	1.456
-2.176	16.110	1.471
-2.177	16.110	1.471
-2.205	16.110	1.486
-2.205	16.110	1.486
-2.233	16.110	1.501
-2.234	16.110	1.501
-2.262	16.110	1.516
-2.262	16.110	1.516
-2.290	16.110	1.531
-2.291	16.110	1.532
-2.319	16.110	1.547
-2.320	16.110	1.547
-2.348	16.110	1.562
-2.348	16.110	1.562
-2.377	16.110	1.577
-2.377	16.110	1.577
-2.405	16.110	1.592
-2.406	16.110	1.592
-2.434	16.110	1.607
-2.435	16.110	1.607
-2.463	16.110	1.622
-2.463	16.110	1.622
-2.492	16.110	1.637
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-2.521	16.110	1.652
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-2.550	16.110	1.667
-2.550	16.110	1.668
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-2.588	16.110	1.687
-2.625	16.110	1.706
-2.626	16.110	1.707
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-2.782	16.110	1.787
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-2.860	16.110	1.826
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-2.886	16.110	1.840
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-2.912	16.110	1.853
-2.913	16.110	1.853
-2.939	16.110	1.866
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-2.965	16.110	1.880
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-2.991	16.110	1.893
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-3.018	16.110	1.906
-3.018	16.110	1.906
-3.045	16.110	1.919
-3.045	16.110	1.920
-3.076	16.110	1.935
-3.076	16.110	1.935
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-3.108	16.110	1.951
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-3.202	16.110	1.997
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-3.233	16.110	2.012
-3.234	16.110	2.013
-3.265	16.110	2.028
-3.265	16.110	2.028
-3.297	16.110	2.043
-3.298	16.110	2.044

-3.361	16.110	2.074
-3.362	16.110	2.075
-3.425	16.110	2.105
-3.430	16.110	2.108
-3.477	16.110	2.130
-3.480	16.110	2.132
-3.560	16.110	2.170
-3.607	16.110	2.193
-3.608	16.110	2.193
-3.648	16.110	2.211
-3.649	16.110	2.211
-3.657	16.110	2.214
-3.658	16.110	2.214
-3.668	16.110	2.214
-3.669	16.110	2.214
-3.673	16.110	2.213
-3.673	16.110	2.212
-3.676	16.110	2.210
-3.676	16.110	2.210
-3.677	16.110	2.209
-3.677	16.110	2.208
-3.677	16.110	2.203
-3.677	16.110	2.202
-3.675	16.110	2.197
-3.674	16.110	2.196
-3.667	16.110	2.189
-3.667	16.110	2.188
-3.649	16.110	2.176
-3.649	16.110	2.175
-3.627	16.110	2.162
-3.626	16.110	2.161
-3.551	16.110	2.118
-3.549	16.110	2.116
-3.503	16.110	2.088
-3.502	16.110	2.088

The present invention has been described in relation to particular embodiments, which are intended in all respects to be illustrative rather than restrictive. Alternative embodiments will become apparent to those of ordinary skill in the art to which the present invention pertains without departing from its scope.

From the foregoing, it will be seen that this invention is one well adapted to attain all the ends and objects set forth above, together with other advantages which are

obvious and inherent to the system and method. It will be understood that certain features and sub-combinations are of utility and may be employed without reference to other features and sub-combinations. This is contemplated by and within the scope of the claims.

CLAIMS

What is claimed is:

1. A compressor component having an attachment, a first platform extending radially outward from the attachment and an airfoil extending radially outward from the platform, the airfoil having an uncoated profile substantially in accordance with Cartesian coordinate values of X and Z, for each distance Y in inches as set forth in Table 1, carried to three decimal places, wherein Y is a distance measured radially outward from a blade root center plane, the X and Z coordinate values being joined in smooth continuing splines to form airfoil sections and the airfoil sections joined smoothly to form the profile.
2. The compressor component of claim 1, wherein the airfoil has manufacturing tolerances of approximately +/- 0.012 inches.
3. The compressor component of claim 1, wherein the airfoil has a root end and a tip end spaced at opposite the root end.
4. The compressor component of claim 1 further comprising a squealer tip at the tip end.
5. The compressor component of claim 1, wherein the compressor component is a rotating blade.
6. The compressor component of claim 5, wherein the compressor component is located adjacent to inlet guide vanes of a compressor.
7. The compressor component of claim 1, wherein the airfoil is unflared proximate the tip end.
8. The compressor component of claim 1, wherein the airfoil sections can be scaled uniformly.

9. An airfoil for a compressor blade, the airfoil having an uncoated profile substantially in accordance with Cartesian coordinate values of X, Y, and Z as set forth in Table 1, carried to three decimal places, wherein Y is a distance measured in inches, the X and Z coordinate values being joined in smooth continuing splines to form airfoil sections and the airfoil sections joined smoothly to form the profile.

10. The airfoil of claim 9, wherein the airfoil has manufacturing tolerances of approximately +/- 0.012 inches.

11. The airfoil of claim 9, wherein the airfoil has a first end attached to a platform of a compressor blade.

12. The airfoil of claim 9 further comprising a squealer tip positioned at a second end of the airfoil opposite of the first end.

13. The airfoil of claim 9, wherein the airfoil sections can be scaled uniformly.

14. A compressor comprising a compressor disk and a plurality of compressor blades extending radially outward from the compressor disk, each of the plurality of compressor blades having an airfoil with an uncoated nominal profile substantially in accordance with Cartesian coordinate values of X, Y and Z, set forth in inches in Table 1, with the Y coordinate values at perpendicular distances from planes normal to a radius from a blade root center plane, wherein airfoil sections are defined at each distance Y by connecting the X and Z coordinate values with smooth continuing splines, and the airfoil sections are joined smoothly to form the airfoil profile.

15. The compressor of claim 14, wherein the plurality of compressor blades rotate about an axis of a gas turbine engine.

16. The compressor of claim 14, wherein the plurality of compressor blades each have a squealer tip positioned at a tip end of the airfoil.

17. The compressor of claim 14, wherein the airfoil for the plurality of blades is scalable to multiple sizes of gas turbine engines.

18. The compressor of claim 14, wherein the airfoil profile is within +/- 0.090 inches in a direction normal to the airfoil.

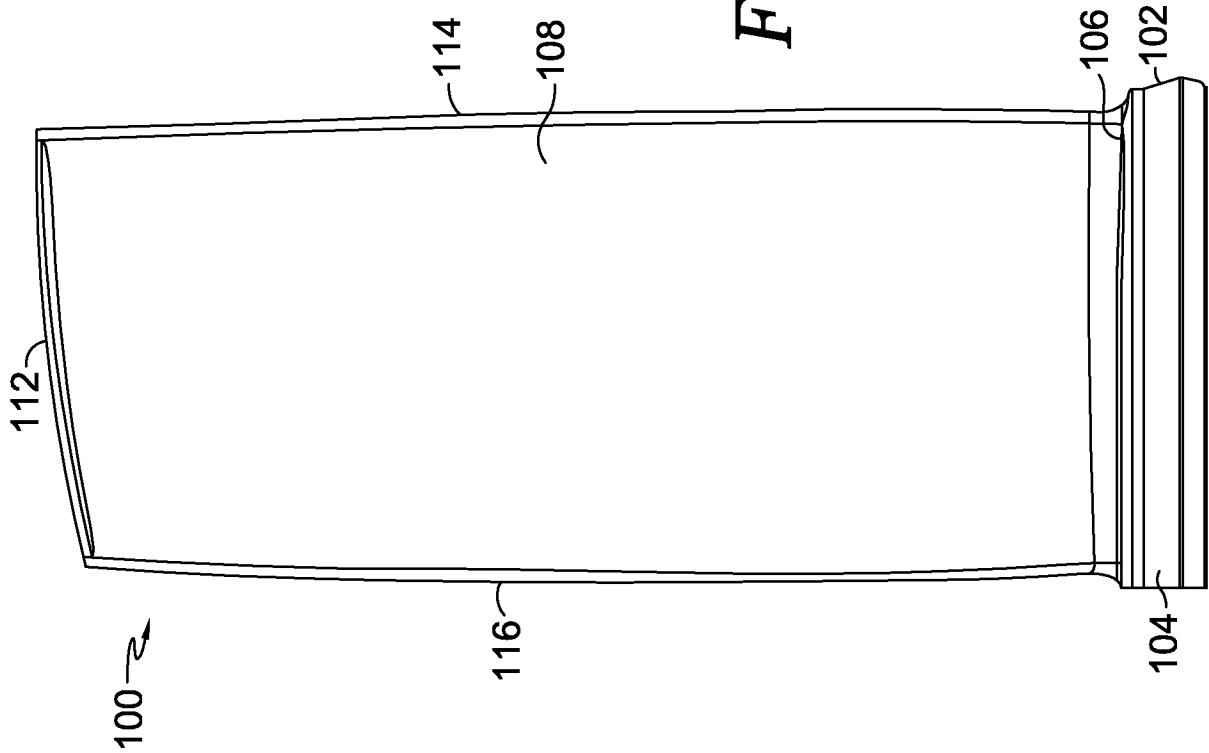


FIG. 1.

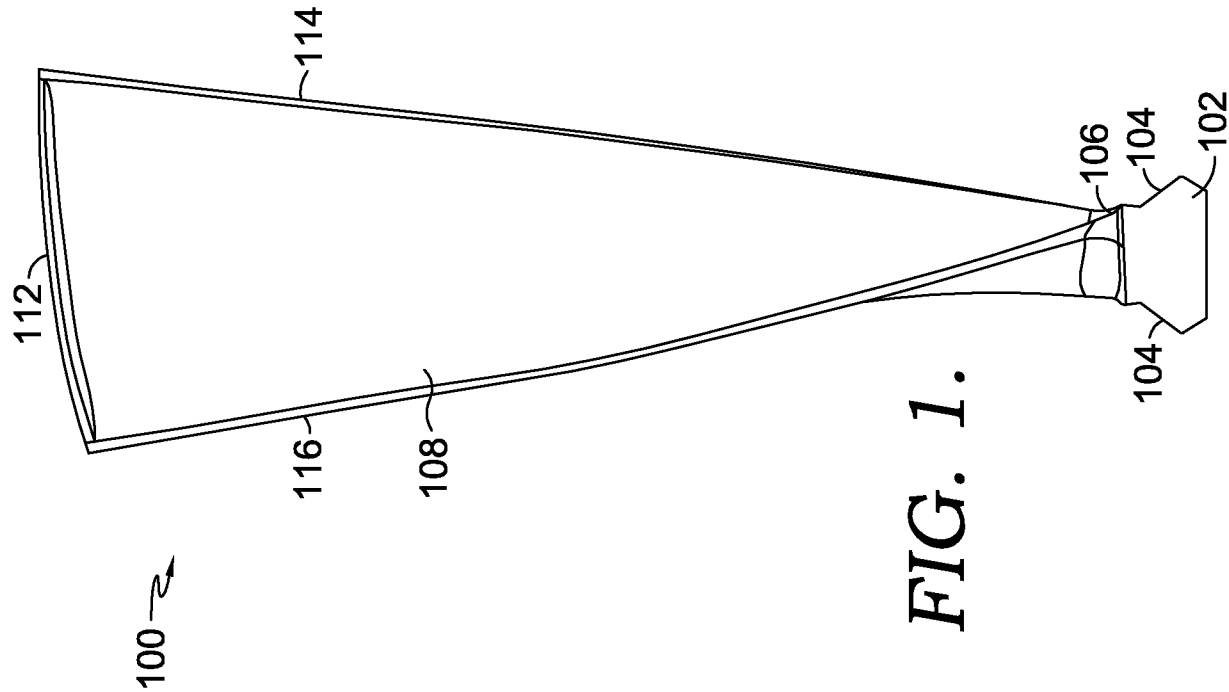


FIG. 2.

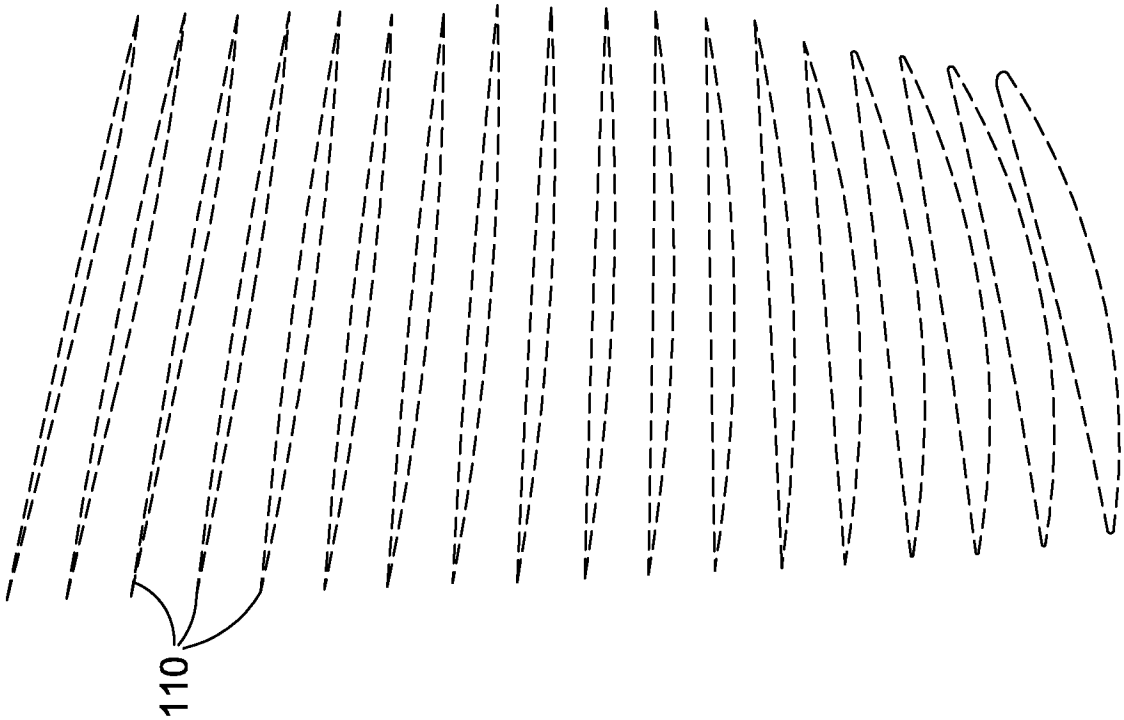


FIG. 4.

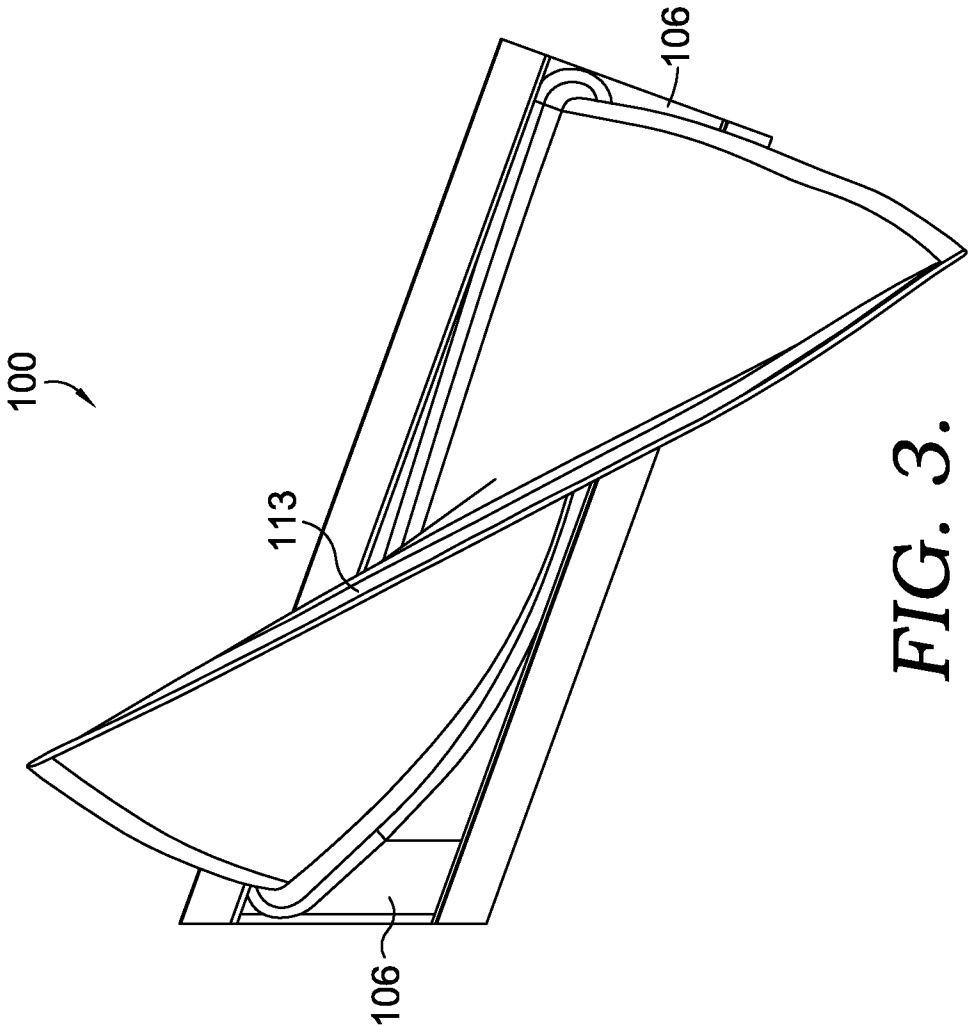


FIG. 3.

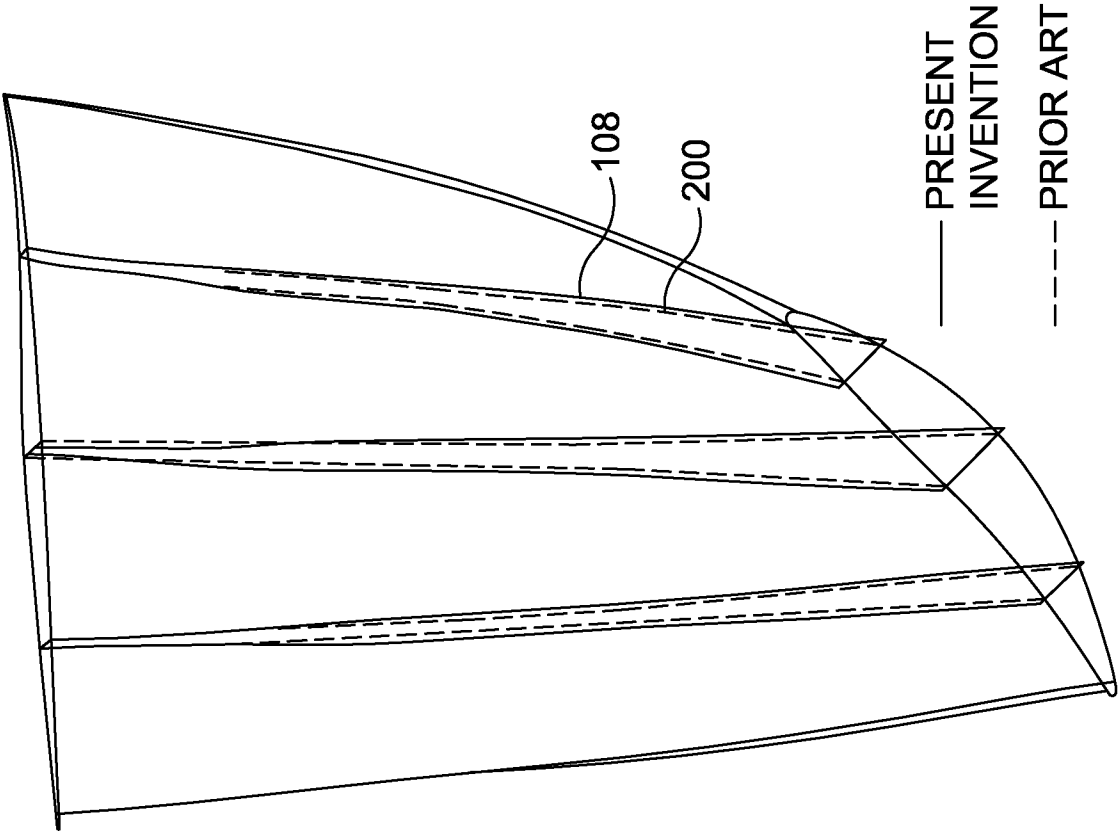


FIG. 5.

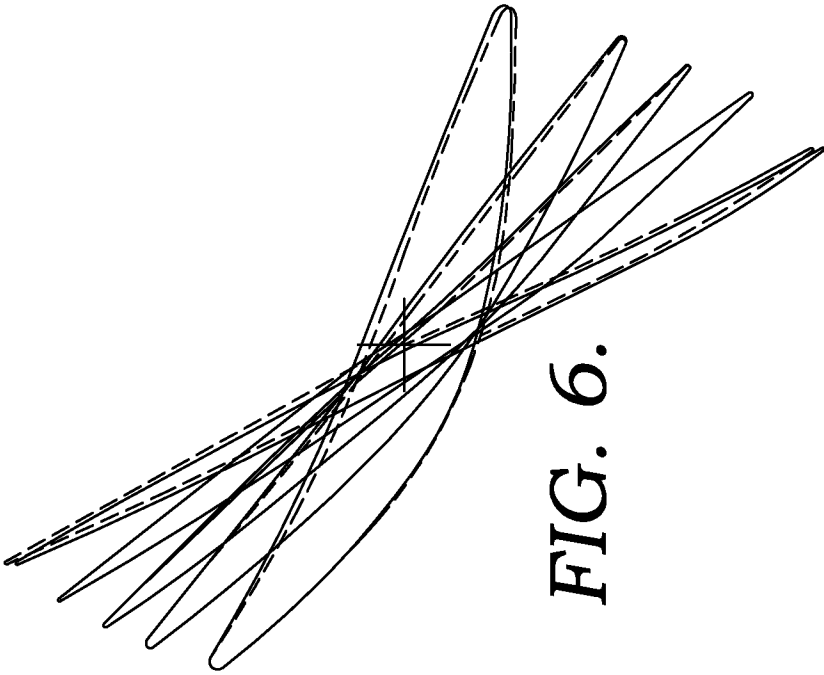


FIG. 6.

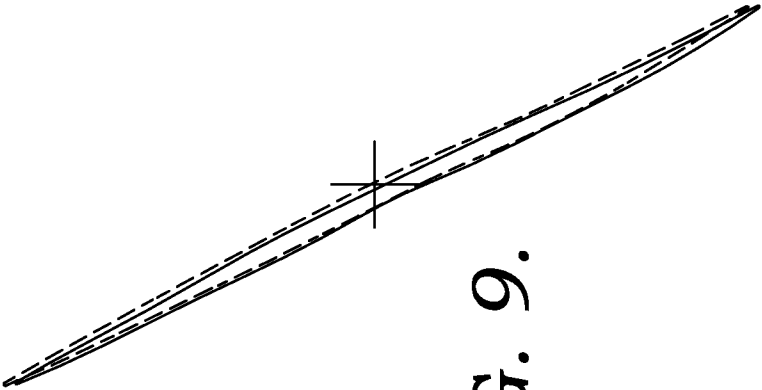


FIG. 9.

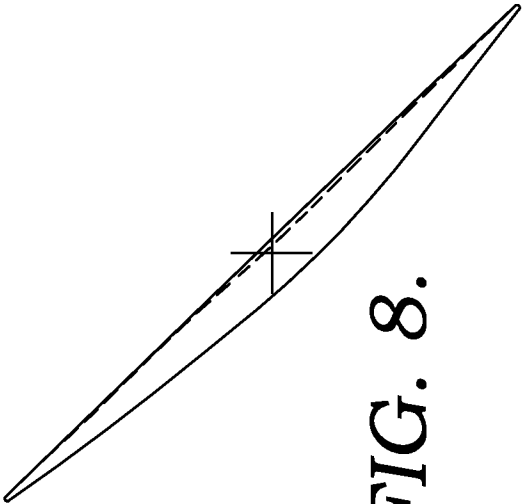


FIG. 8.

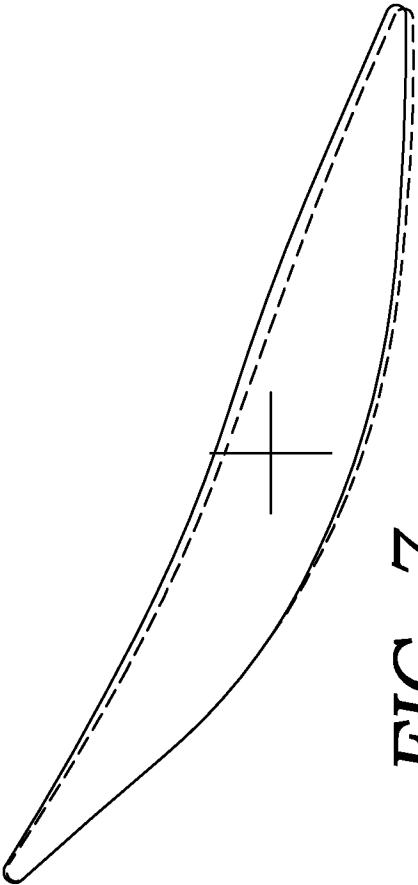


FIG. 7.

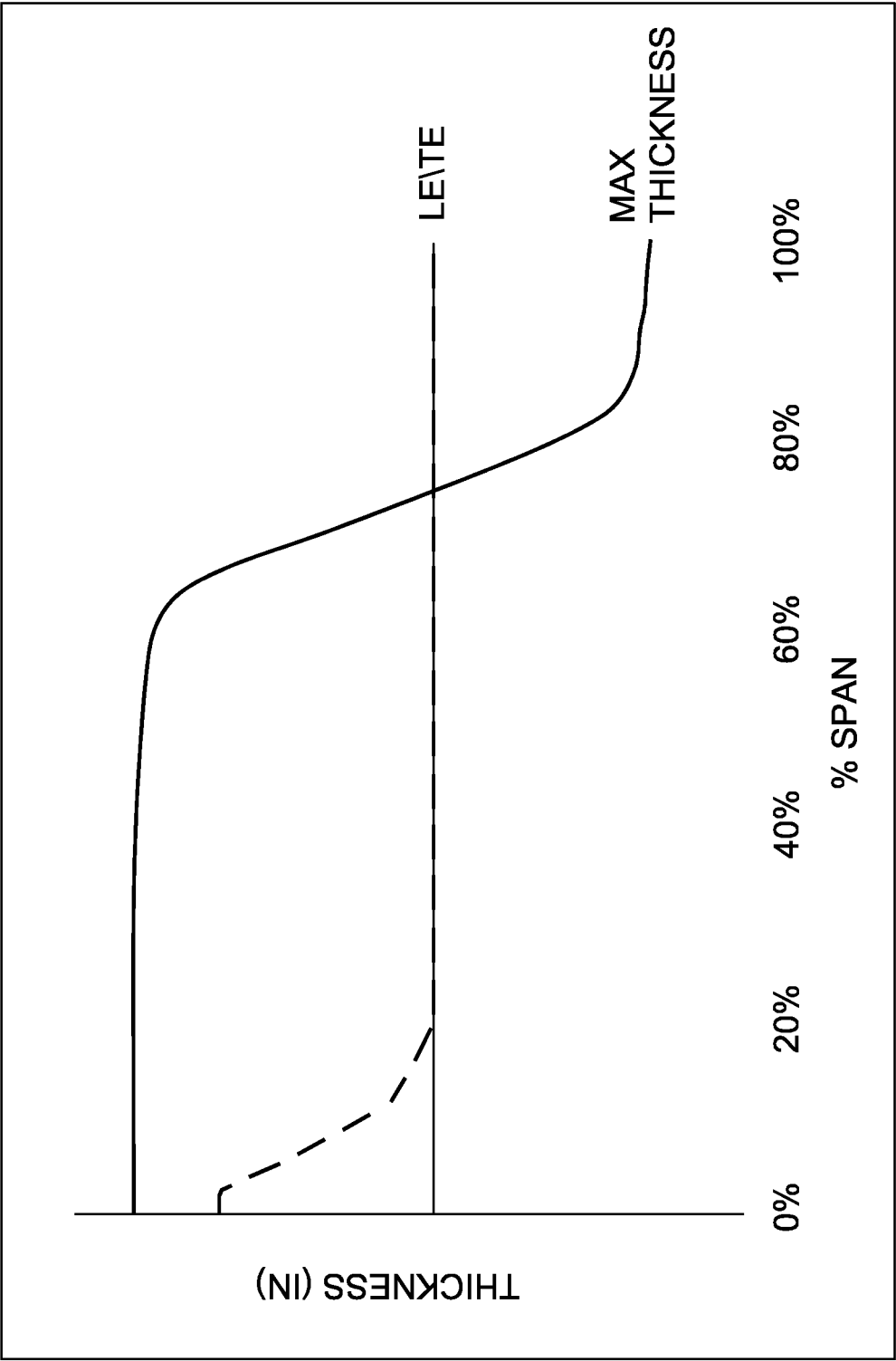


FIG. 10.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2012/026302

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - F01D 5/12 (2012.01)

USPC - 416/223R

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - B63H 1/26; F01D 5/12, 5/14 (2012.01)

USPC - 415/223R, 242, 243; 416/223R; 428/544

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PatBase

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2008/0101954 A1 (LATIMER et al) 01 May 2008 (01.05.2008) entire document	1-3, 5, 7-11, 13-15, 17, 18
Y		4, 6, 12, 16
Y	US 2008/0273984 A1 (LIANG et al) 06 November 2008 (06.11.2008) entire document	4, 12, 16
Y	US 2009/0162204 A1 (AGGARWALA et al) 25 June 2009 (25.06.2009) entire document	6

☐ Further documents are listed in the continuation of Box C.

* Special categories of cited documents:

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

18 May 2012

Date of mailing of the international search report

30 MAY 2012

Name and mailing address of the ISA/US

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