

Orbital inclination

In the following table I give the orbital inclination of the earth for the period 0-3 Ma, as calculated by T. R. Quinn, S. Tremaine, and M. Duncan, *Astronomical Journal*, vol. 101, pp 2287-2305 (1991), and interpolated to nearest ka by me.

I also give the values of inclination and omega that I calculated by transforming to the invariable plane (IP) of the solar system.

age (ka)	inclin	inclin (IP)	omega	omega (IP)
0,	.0012350,	1.667475,	240,	286
1,	.131112,	1.716908,	356,	290
2,	.2644012,	1.765728,	358,	294
3,	.3991655,	1.813554,	1,	298
4,	.5351788,	1.860569,	3,	303
5,	.6722056,	1.906625,	6,	307
6,	.8100044,	1.951292,	8,	311
7,	.9483255,	1.995054,	11,	314
8,	1.086915,	2.037586,	13,	318
9,	1.225509,	2.078681,	16,	322
10,	1.363841,	2.118424,	18,	326
11,	1.501635,	2.156707,	21,	330
12,	1.638614,	2.193431,	23,	334
13,	1.774495,	2.228583,	26,	338
14,	1.90899,	2.261979,	28,	342
15,	2.04181,	2.293696,	31,	346
16,	2.172663,	2.323718,	33,	350
17,	2.301255,	2.351862,	36,	354
18,	2.427292,	2.378195,	38,	358
19,	2.550477,	2.402288,	41,	1
20,	2.670519,	2.424612,	43,	5
21,	2.787127,	2.444976,	46,	9
22,	2.900009,	2.46311,	48,	13
23,	3.008884,	2.479066,	51,	17
24,	3.113468,	2.493041,	53,	21
25,	3.213489,	2.504678,	56,	25
26,	3.308674,	2.513934,	58,	29
27,	3.398767,	2.521144,	61,	33
28,	3.483515,	2.526093,	64,	37
29,	3.562673,	2.528564,	66,	41
30,	3.636009,	2.528796,	69,	45
31,	3.703304,	2.526711,	71,	49
32,	3.764349,	2.522305,	74,	53
33,	3.818945,	2.515409,	76,	57
34,	3.866913,	2.506236,	79,	61
35,	3.908086,	2.494762,	81,	65
36,	3.942311,	2.480876,	84,	69
37,	3.969453,	2.464774,	87,	73
38,	3.989394,	2.446253,	89,	78
39,	4.002035,	2.425417,	92,	82
40,	4.007291,	2.402451,	94,	86
41,	4.005099,	2.377292,	97,	90
42,	3.995415,	2.349786,	99,	94
43,	3.978212,	2.320187,	102,	99

44,	3.953488,	2.288498,	104,	103
45,	3.921257,	2.254803,	107,	107
46,	3.881556,	2.2191,	109,	112
47,	3.834442,	2.181557,	112,	116
48,	3.779994,	2.142078,	114,	120
49,	3.718311,	2.100833,	117,	125
50,	3.649516,	2.058094,	119,	129
51,	3.573755,	2.013572,	121,	134
52,	3.49119,	1.967743,	124,	139
53,	3.402013,	1.920308,	126,	143
54,	3.306437,	1.871668,	128,	148
55,	3.204695,	1.82194,	131,	153
56,	3.09705,	1.771253,	133,	158
57,	2.983788,	1.719524,	135,	163
58,	2.865226,	1.66724,	137,	168
59,	2.741708,	1.614229,	139,	173
60,	2.613619,	1.560915,	141,	178
61,	2.481373,	1.507269,	143,	184
62,	2.345443,	1.453791,	144,	189
63,	2.206356,	1.40064,	146,	195
64,	2.064716,	1.347711,	147,	200
65,	1.921222,	1.295938,	148,	206
66,	1.776713,	1.245149,	148,	213
67,	1.632215,	1.195799,	149,	219
68,	1.48902,	1.148415,	148,	226
69,	1.348821,	1.10325,	148,	233
70,	1.213892,	1.060773,	146,	240
71,	1.087356,	1.021703,	143,	247
72,	.9735444,	.9864445,	138,	255
73,	.8782991,	.9554211,	132,	263
74,	.8088387,	.9292675,	124,	271
75,	.7724786,	.9086204,	114,	279
76,	.7738864,	.8934239,	104,	288
77,	.8125353,	.8846229,	95,	297
78,	.8829642,	.8821872,	87,	306
79,	.9775485,	.8861694,	81,	314
80,	1.089096,	.8964838,	77,	323
81,	1.211924,	.9122728,	74,	331
82,	1.341869,	.9340963,	72,	340
83,	1.475942,	.9607291,	71,	348
84,	1.611994,	.9917837,	71,	356
85,	1.74843,	1.026858,	71,	3
86,	1.884045,	1.065372,	72,	10
87,	2.017897,	1.10679,	73,	17
88,	2.149231,	1.150627,	74,	24
89,	2.277425,	1.19629,	76,	30
90,	2.401956,	1.243578,	77,	37
91,	2.522378,	1.292311,	79,	43
92,	2.638307,	1.34175,	81,	48
93,	2.749409,	1.391818,	83,	54
94,	2.855389,	1.442044,	85,	60
95,	2.955986,	1.492672,	87,	65
96,	3.050978,	1.542903,	89,	70
97,	3.140164,	1.59302,	91,	75
98,	3.223373,	1.642675,	93,	80
99,	3.300457,	1.691679,	96,	85
100,	3.371293,	1.740086,	98,	90

101,	3.435773,	1.787616,	100,	94
102,	3.493822,	1.834338,	102,	99
103,	3.545373,	1.879689,	105,	104
104,	3.590383,	1.92417,	107,	108
105,	3.628831,	1.967445,	110,	112
106,	3.660705,	2.009591,	112,	117
107,	3.686016,	2.050011,	114,	121
108,	3.704792,	2.089366,	117,	125
109,	3.717073,	2.127164,	119,	130
110,	3.722913,	2.163579,	122,	134
111,	3.722385,	2.198411,	124,	138
112,	3.715573,	2.231648,	127,	142
113,	3.702574,	2.263446,	129,	146
114,	3.683496,	2.293526,	132,	150
115,	3.658459,	2.322121,	134,	154
116,	3.627594,	2.348872,	137,	158
117,	3.591043,	2.374005,	139,	162
118,	3.548954,	2.397326,	142,	166
119,	3.501485,	2.419131,	144,	170
120,	3.448804,	2.43922,	147,	173
121,	3.391084,	2.457557,	149,	177
122,	3.328504,	2.474101,	152,	181
123,	3.261251,	2.488966,	155,	185
124,	3.189515,	2.502105,	157,	188
125,	3.113493,	2.513468,	160,	192
126,	3.033387,	2.523156,	163,	196
127,	2.949404,	2.531033,	165,	200
128,	2.861749,	2.537194,	168,	203
129,	2.770635,	2.541651,	171,	207
130,	2.676285,	2.544261,	173,	211
131,	2.578916,	2.545258,	176,	214
132,	2.478753,	2.544414,	179,	218
133,	2.376032,	2.541882,	182,	221
134,	2.270986,	2.537502,	185,	225
135,	2.163856,	2.531495,	188,	229
136,	2.054906,	2.523774,	191,	232
137,	1.944397,	2.514322,	194,	236
138,	1.832607,	2.503042,	197,	239
139,	1.719849,	2.490142,	201,	243
140,	1.606452,	2.475441,	205,	246
141,	1.492786,	2.458986,	208,	250
142,	1.379289,	2.44082,	212,	253
143,	1.266467,	2.420825,	217,	257
144,	1.154947,	2.399198,	222,	260
145,	1.045533,	2.375813,	227,	264
146,	.9392834,	2.350617,	233,	268
147,	.8376518,	2.323718,	240,	271
148,	.7426874,	2.294973,	248,	275
149,	.6573042,	2.264568,	257,	278
150,	.5855684,	2.232348,	269,	282
151,	.5326878,	2.1985,	283,	285
152,	.5040805,	2.162766,	298,	289
153,	.5031759,	2.125235,	314,	293
154,	.529252,	2.086091,	329,	296
155,	.5777301,	2.04505,	342,	300
156,	.6425834,	2.002385,	354,	303
157,	.7184029,	1.957789,	3,	307

158,	.8010934,	1.911742,	11,	311
159,	.8877568,	1.863821,	18,	315
160,	.976374,	1.814201,	24,	318
161,	1.065513,	1.76307,	29,	322
162,	1.154128,	1.710293,	34,	326
163,	1.241427,	1.655712,	39,	330
164,	1.326794,	1.599876,	43,	334
165,	1.409721,	1.542396,	47,	338
166,	1.489786,	1.483608,	51,	342
167,	1.566627,	1.423211,	54,	347
168,	1.63992,	1.361855,	58,	351
169,	1.709379,	1.299253,	61,	355
170,	1.774741,	1.235532,	64,	0
171,	1.835765,	1.170845,	68,	5
172,	1.892229,	1.105906,	71,	10
173,	1.943928,	1.040106,	74,	15
174,	1.990667,	.974475,	77,	20
175,	2.03227,	.9092661,	80,	26
176,	2.068571,	.8438825,	83,	33
177,	2.099419,	.7805399,	86,	39
178,	2.124676,	.7195066,	89,	47
179,	2.144216,	.6617188,	92,	55
180,	2.157928,	.6090676,	95,	64
181,	2.165715,	.5629971,	98,	75
182,	2.167494,	.5256152,	101,	86
183,	2.163198,	.5000542,	104,	99
184,	2.152776,	.4881753,	108,	112
185,	2.136191,	.4913711,	111,	126
186,	2.113425,	.5101255,	114,	139
187,	2.084479,	.5424674,	117,	152
188,	2.049372,	.5868185,	120,	163
189,	2.008141,	.6406891,	123,	173
190,	1.960848,	.701332,	127,	182
191,	1.907573,	.7679064,	130,	190
192,	1.848423,	.8383008,	133,	198
193,	1.783534,	.9122728,	137,	204
194,	1.713066,	.9880295,	140,	211
195,	1.637221,	1.065372,	144,	217
196,	1.556239,	1.143637,	148,	222
197,	1.470407,	1.222965,	152,	227
198,	1.380084,	1.302409,	156,	233
199,	1.28571,	1.381526,	160,	237
200,	1.187841,	1.460499,	165,	242
201,	1.087217,	1.538971,	170,	247
202,	.9848319,	1.616649,	176,	251
203,	.8820909,	1.693411,	183,	256
204,	.7810879,	1.769045,	191,	260
205,	.6850313,	1.843265,	200,	264
206,	.5989606,	1.916234,	212,	269
207,	.5305804,	1.987303,	226,	273
208,	.4901598,	2.05686,	244,	277
209,	.4872411,	2.1245,	264,	281
210,	.5244723,	2.190045,	282,	285
211,	.5958427,	2.253504,	298,	289
212,	.6918709,	2.314626,	311,	293
213,	.8043937,	2.373511,	321,	297
214,	.9277568,	2.429839,	329,	301

215,	1.05826,	2.483707,	336,	305
216,	1.193456,	2.534885,	342,	309
217,	1.331659,	2.583309,	348,	313
218,	1.471637,	2.629056,	353,	317
219,	1.612435,	2.671753,	357,	321
220,	1.753287,	2.711618,	1,	325
221,	1.893541,	2.748347,	5,	329
222,	2.03262,	2.782136,	9,	333
223,	2.170017,	2.812745,	13,	337
224,	2.305251,	2.840277,	16,	340
225,	2.437888,	2.864549,	20,	344
226,	2.567516,	2.885644,	23,	348
227,	2.693741,	2.903363,	27,	352
228,	2.816194,	2.9179,	30,	356
229,	2.934525,	2.929239,	33,	0
230,	3.048398,	2.93715,	36,	4
231,	3.157495,	2.941925,	39,	8
232,	3.261518,	2.943449,	42,	12
233,	3.360181,	2.941528,	45,	15
234,	3.453219,	2.936419,	48,	19
235,	3.540385,	2.928107,	51,	23
236,	3.621444,	2.916631,	54,	27
237,	3.696185,	2.901952,	57,	31
238,	3.764415,	2.884224,	60,	35
239,	3.825957,	2.863392,	63,	39
240,	3.880656,	2.839591,	65,	43
241,	3.928374,	2.812745,	68,	47
242,	3.968997,	2.783048,	71,	51
243,	4.002427,	2.750547,	74,	54
244,	4.028589,	2.715141,	76,	58
245,	4.047427,	2.677224,	79,	62
246,	4.058906,	2.636615,	82,	66
247,	4.063011,	2.593562,	84,	70
248,	4.059751,	2.548093,	87,	74
249,	4.049155,	2.500311,	89,	78
250,	4.031265,	2.450239,	92,	82
251,	4.006156,	2.398059,	95,	86
252,	3.973911,	2.343963,	97,	91
253,	3.934644,	2.287815,	100,	95
254,	3.888483,	2.229985,	102,	99
255,	3.835569,	2.170608,	104,	103
256,	3.776083,	2.109647,	107,	107
257,	3.710204,	2.04715,	109,	111
258,	3.638137,	1.983466,	111,	116
259,	3.560116,	1.918679,	114,	120
260,	3.476381,	1.852886,	116,	124
261,	3.387197,	1.786195,	118,	129
262,	3.292851,	1.718728,	120,	133
263,	3.193651,	1.650865,	122,	138
264,	3.089918,	1.582679,	124,	142
265,	2.982013,	1.514127,	126,	147
266,	2.870308,	1.445564,	127,	152
267,	2.755208,	1.377273,	129,	157
268,	2.637161,	1.309297,	130,	162
269,	2.516643,	1.241847,	132,	167
270,	2.394183,	1.175512,	133,	173
271,	2.27037,	1.110142,	134,	178

272,	2.145859,	1.04648,	135,	184
273,	2.021406,	.9846584,	135,	190
274,	1.897882,	.9250482,	135,	197
275,	1.776305,	.868331,	135,	204
276,	1.65789,	.8148718,	135,	211
277,	1.544101,	.7656103,	133,	219
278,	1.436691,	.7214074,	132,	227
279,	1.33778,	.6826735,	129,	236
280,	1.249859,	.6506878,	126,	245
281,	1.175739,	.6261729,	122,	255
282,	1.118373,	.6097097,	117,	265
283,	1.080481,	.6019594,	112,	276
284,	1.064033,	.6026091,	106,	286
285,	1.069749,	.6116319,	101,	296
286,	1.096879,	.6283561,	95,	306
287,	1.143382,	.6521893,	90,	316
288,	1.206406,	.6812391,	86,	324
289,	1.282844,	.7151431,	82,	333
290,	1.36973,	.7535053,	80,	340
291,	1.464446,	.794697,	78,	348
292,	1.564804,	.8378339,	76,	355
293,	1.669008,	.8830737,	76,	1
294,	1.7756,	.9298988,	75,	7
295,	1.883412,	.9770808,	75,	13
296,	1.991485,	1.024952,	75,	19
297,	2.099037,	1.072873,	76,	24
298,	2.205424,	1.121186,	77,	29
299,	2.310104,	1.169173,	77,	34
300,	2.412619,	1.217034,	78,	39
301,	2.51258,	1.264163,	80,	44
302,	2.60965,	1.311237,	81,	48
303,	2.703534,	1.357397,	82,	53
304,	2.793971,	1.403011,	84,	57
305,	2.880734,	1.447592,	86,	61
306,	2.963619,	1.491755,	87,	66
307,	3.042446,	1.534773,	89,	70
308,	3.117042,	1.577111,	91,	74
309,	3.187258,	1.61834,	92,	78
310,	3.252959,	1.658661,	94,	82
311,	3.314021,	1.698136,	96,	86
312,	3.370328,	1.736488,	98,	90
313,	3.421776,	1.773789,	100,	94
314,	3.468266,	1.810103,	102,	98
315,	3.509713,	1.845384,	104,	102
316,	3.546034,	1.879377,	106,	106
317,	3.577157,	1.912355,	108,	110
318,	3.603015,	1.944271,	110,	114
319,	3.623548,	1.975076,	112,	118
320,	3.638703,	2.004627,	115,	122
321,	3.648432,	2.032979,	117,	125
322,	3.652695,	2.060276,	119,	129
323,	3.65146,	2.086091,	121,	133
324,	3.644698,	2.110758,	123,	137
325,	3.632391,	2.134223,	126,	141
326,	3.614529,	2.156526,	128,	145
327,	3.591103,	2.177256,	130,	148
328,	3.56212,	2.196811,	133,	152

329,	3.527591,	2.215048,	135,	156
330,	3.487533,	2.231735,	137,	160
331,	3.441978,	2.247256,	140,	164
332,	3.390968,	2.261289,	142,	168
333,	3.334551,	2.273947,	145,	172
334,	3.272785,	2.284997,	147,	175
335,	3.205739,	2.294717,	149,	179
336,	3.133492,	2.302786,	152,	183
337,	3.05614,	2.30956,	154,	187
338,	2.97379,	2.314626,	157,	191
339,	2.886555,	2.318166,	160,	195
340,	2.794564,	2.320103,	162,	199
341,	2.697958,	2.320439,	165,	203
342,	2.596897,	2.319261,	168,	207
343,	2.491544,	2.316228,	170,	211
344,	2.382094,	2.311757,	173,	215
345,	2.268741,	2.305498,	176,	219
346,	2.151699,	2.297523,	179,	223
347,	2.031203,	2.288071,	182,	227
348,	1.907511,	2.276778,	185,	231
349,	1.780894,	2.263792,	188,	235
350,	1.651666,	2.24908,	192,	239
351,	1.520156,	2.232697,	195,	243
352,	1.386764,	2.214607,	199,	248
353,	1.251924,	2.194855,	203,	252
354,	1.116197,	2.173485,	207,	256
355,	.9803066,	2.150359,	212,	260
356,	.845233,	2.125603,	218,	265
357,	.7125118,	2.099066,	224,	269
358,	.5847676,	2.071339,	233,	273
359,	.4669587,	2.041704,	245,	278
360,	.3693746,	2.010854,	263,	282
361,	.3117722,	1.978239,	288,	287
362,	.316294,	1.944371,	317,	291
363,	.3798548,	1.909186,	341,	296
364,	.4784272,	1.872607,	358,	300
365,	.5936602,	1.834978,	9,	305
366,	.7163258,	1.795905,	18,	310
367,	.8419213,	1.755962,	24,	315
368,	.9680388,	1.715313,	30,	319
369,	1.093228,	1.673676,	35,	324
370,	1.216525,	1.631332,	39,	330
371,	1.337209,	1.588473,	44,	335
372,	1.454719,	1.545182,	47,	340
373,	1.568578,	1.501812,	51,	345
374,	1.678371,	1.45849,	55,	351
375,	1.783729,	1.415083,	58,	356
376,	1.884315,	1.372153,	61,	2
377,	1.979817,	1.330041,	65,	8
378,	2.069951,	1.288826,	68,	14
379,	2.154445,	1.248599,	71,	20
380,	2.233058,	1.210428,	74,	27
381,	2.305562,	1.173681,	77,	33
382,	2.371747,	1.139354,	80,	40
383,	2.431425,	1.10785,	83,	47
384,	2.484425,	1.079234,	86,	55
385,	2.530596,	1.053929,	89,	62

386,	2.569809,	1.032557,	92,	70
387,	2.601943,	1.015558,	95,	77
388,	2.626915,	1.002572,	98,	85
389,	2.644649,	.9943442,	101,	93
390,	2.655092,	.9909945,	104,	101
391,	2.658212,	.9923751,	107,	109
392,	2.654003,	.9988581,	110,	117
393,	2.642468,	1.009764,	113,	125
394,	2.623643,	1.025143,	116,	133
395,	2.597577,	1.044984,	119,	141
396,	2.564338,	1.068306,	122,	148
397,	2.524022,	1.095065,	125,	155
398,	2.476746,	1.12519,	128,	162
399,	2.422632,	1.157743,	131,	169
400,	2.361837,	1.192688,	135,	176
401,	2.294541,	1.229503,	138,	182
402,	2.220924,	1.268179,	141,	189
403,	2.141201,	1.307654,	144,	195
404,	2.055613,	1.348002,	147,	201
405,	1.964394,	1.389287,	150,	207
406,	1.867827,	1.430473,	154,	213
407,	1.76621,	1.472364,	157,	218
408,	1.659849,	1.51374,	160,	224
409,	1.549095,	1.554893,	164,	229
410,	1.434338,	1.595595,	168,	234
411,	1.315986,	1.635401,	172,	239
412,	1.194533,	1.67461,	176,	244
413,	1.070568,	1.712919,	180,	249
414,	.9448092,	1.749941,	185,	254
415,	.8182634,	1.785866,	191,	259
416,	.6924405,	1.820545,	198,	264
417,	.5698581,	1.853835,	206,	269
418,	.4553604,	1.885501,	218,	273
419,	.3590759,	1.915724,	236,	278
420,	.301174,	1.944271,	262,	283
421,	.3057778,	1.971215,	292,	287
422,	.3711463,	1.996425,	316,	292
423,	.4727346,	2.019869,	333,	296
424,	.5918767,	2.041321,	344,	301
425,	.7193658,	2.061034,	353,	305
426,	.8507997,	2.078963,	359,	309
427,	.9838228,	2.094874,	5,	314
428,	1.117034,	2.108906,	10,	318
429,	1.249497,	2.121004,	14,	322
430,	1.380529,	2.131292,	18,	327
431,	1.509583,	2.139524,	22,	331
432,	1.63621,	2.145995,	25,	335
433,	1.760022,	2.150359,	29,	339
434,	1.880666,	2.15281,	32,	344
435,	1.997835,	2.153536,	35,	348
436,	2.111244,	2.152266,	38,	352
437,	2.220626,	2.149269,	41,	356
438,	2.325747,	2.144174,	44,	0
439,	2.426383,	2.137606,	47,	4
440,	2.522335,	2.129092,	49,	9
441,	2.613415,	2.119069,	52,	13
442,	2.699463,	2.10696,	55,	17

443,	2.780322,	2.093568,	58,	21
444,	2.855863,	2.078399,	60,	25
445,	2.925969,	2.061792,	63,	29
446,	2.990538,	2.043426,	65,	33
447,	3.049486,	2.023733,	68,	37
448,	3.102741,	2.002677,	70,	41
449,	3.150252,	1.980114,	73,	45
450,	3.191977,	1.956192,	75,	50
451,	3.227892,	1.931062,	78,	54
452,	3.257986,	1.90478,	80,	58
453,	3.282261,	1.877088,	83,	62
454,	3.300732,	1.848346,	85,	66
455,	3.313425,	1.818612,	87,	70
456,	3.320391,	1.787835,	90,	74
457,	3.321666,	1.756073,	92,	78
458,	3.317326,	1.723497,	94,	82
459,	3.307441,	1.689945,	96,	87
460,	3.292096,	1.655594,	99,	91
461,	3.271383,	1.620513,	101,	95
462,	3.245414,	1.585024,	103,	99
463,	3.214288,	1.54872,	105,	103
464,	3.178135,	1.511672,	107,	108
465,	3.13709,	1.474355,	109,	112
466,	3.091277,	1.436747,	111,	116
467,	3.040848,	1.398545,	113,	121
468,	2.985965,	1.360131,	115,	125
469,	2.926774,	1.321487,	117,	130
470,	2.863454,	1.282743,	118,	134
471,	2.796192,	1.243735,	120,	139
472,	2.725161,	1.204923,	122,	144
473,	2.650567,	1.166159,	123,	148
474,	2.572634,	1.127621,	125,	153
475,	2.49157,	1.089515,	126,	158
476,	2.407627,	1.0517,	128,	163
477,	2.321076,	1.014595,	129,	168
478,	2.232188,	.9780813,	130,	174
479,	2.141289,	.9422275,	131,	179
480,	2.04874,	.9073279,	132,	185
481,	1.954926,	.8739446,	133,	191
482,	1.860312,	.8417937,	133,	197
483,	1.765436,	.8115041,	133,	203
484,	1.670904,	.7827923,	133,	210
485,	1.577462,	.7563558,	133,	216
486,	1.485999,	.7327082,	132,	223
487,	1.397565,	.7118529,	131,	230
488,	1.313453,	.6937597,	130,	238
489,	1.235204,	.6792259,	127,	245
490,	1.164627,	.6684841,	124,	253
491,	1.103789,	.661423,	121,	261
492,	1.054922,	.6587556,	117,	269
493,	1.020217,	.6599424,	112,	277
494,	1.001543,	.6652571,	107,	285
495,	1.000085,	.6748917,	102,	293
496,	1.016117,	.6880968,	96,	301
497,	1.048914,	.7049488,	91,	309
498,	1.096961,	.7257332,	87,	316
499,	1.158245,	.7493399,	83,	323

500,	1.230603,	.7757635,	80,	330
501,	1.311927,	.8047262,	78,	337
502,	1.400306,	.83573,	76,	343
503,	1.494116,	.8690065,	75,	350
504,	1.591941,	.9038719,	74,	356
505,	1.692594,	.9401493,	74,	2
506,	1.795088,	.9774811,	74,	7
507,	1.898567,	1.015944,	74,	13
508,	2.002292,	1.055227,	74,	18
509,	2.105643,	1.094887,	75,	23
510,	2.208049,	1.135227,	76,	29
511,	2.309003,	1.175845,	77,	34
512,	2.408062,	1.216552,	78,	39
513,	2.504806,	1.257494,	80,	43
514,	2.598846,	1.298349,	81,	48
515,	2.689835,	1.338832,	83,	53
516,	2.777431,	1.379118,	84,	58
517,	2.861326,	1.418671,	86,	62
518,	2.94122,	1.458356,	88,	67
519,	3.01684,	1.496727,	90,	71
520,	3.087916,	1.534901,	92,	76
521,	3.154204,	1.571897,	94,	80
522,	3.215466,	1.608163,	96,	84
523,	3.271487,	1.64327,	98,	89
524,	3.322057,	1.677641,	100,	93
525,	3.366988,	1.710521,	102,	97
526,	3.406102,	1.742219,	104,	102
527,	3.439238,	1.772687,	106,	106
528,	3.46625,	1.801554,	108,	110
529,	3.487011,	1.829218,	110,	114
530,	3.501402,	1.855205,	113,	119
531,	3.509332,	1.879481,	115,	123
532,	3.510715,	1.902214,	117,	127
533,	3.505491,	1.923053,	120,	131
534,	3.493609,	1.94216,	122,	135
535,	3.475055,	1.959285,	124,	140
536,	3.449801,	1.97468,	127,	144
537,	3.417869,	1.987893,	129,	148
538,	3.379286,	1.99926,	131,	152
539,	3.334096,	2.008522,	134,	156
540,	3.28236,	2.015609,	136,	160
541,	3.224169,	2.020739,	138,	165
542,	3.159621,	2.02354,	141,	169
543,	3.088839,	2.024216,	143,	173
544,	3.011966,	2.022575,	146,	177
545,	2.929158,	2.018998,	148,	181
546,	2.840589,	2.012796,	150,	186
547,	2.746459,	2.004627,	153,	190
548,	2.646981,	1.994075,	155,	194
549,	2.542381,	1.981298,	157,	198
550,	2.432913,	1.966452,	160,	203
551,	2.318845,	1.948988,	162,	207
552,	2.200452,	1.929645,	164,	211
553,	2.078053,	1.90806,	166,	216
554,	1.951963,	1.884257,	168,	220
555,	1.822529,	1.858362,	170,	224
556,	1.690129,	1.830606,	172,	229

557,	1.555166,	1.800578,	174,	233
558,	1.418083,	1.768714,	176,	238
559,	1.279396,	1.734912,	177,	242
560,	1.1397,	1.699287,	178,	247
561,	.9997405,	1.661957,	179,	251
562,	.8605343,	1.622924,	178,	256
563,	.7235791,	1.582432,	177,	261
564,	.5914057,	1.540494,	174,	265
565,	.4688399,	1.49738,	167,	270
566,	.3660536,	1.452715,	155,	275
567,	.3035539,	1.407325,	135,	280
568,	.3060691,	1.361137,	110,	285
569,	.3709164,	1.314365,	90,	291
570,	.4716384,	1.266945,	79,	296
571,	.5886084,	1.219281,	73,	302
572,	.7123513,	1.171846,	70,	307
573,	.8383978,	1.124669,	69,	313
574,	.9643697,	1.078146,	69,	319
575,	1.088864,	1.032936,	69,	326
576,	1.21096,	.9886233,	70,	332
577,	1.329973,	.946577,	72,	339
578,	1.445371,	.9068965,	73,	346
579,	1.556723,	.8694566,	75,	354
580,	1.663654,	.836198,	77,	2
581,	1.76583,	.806911,	79,	10
582,	1.862971,	.7822923,	81,	18
583,	1.954812,	.7627944,	84,	27
584,	2.041119,	.7488176,	86,	36
585,	2.121685,	.7412028,	88,	45
586,	2.196326,	.7396175,	91,	54
587,	2.264878,	.7438374,	93,	63
588,	2.327196,	.7542838,	96,	72
589,	2.383166,	.7704497,	98,	80
590,	2.43268,	.7912433,	101,	89
591,	2.475658,	.8165506,	103,	97
592,	2.512046,	.8455036,	106,	104
593,	2.541801,	.8779642,	108,	112
594,	2.564905,	.9131301,	111,	119
595,	2.581346,	.9498773,	113,	126
596,	2.59116,	.9884253,	116,	132
597,	2.594371,	1.02781,	118,	139
598,	2.591038,	1.06794,	121,	145
599,	2.581237,	1.108379,	124,	150
600,	2.565055,	1.148926,	126,	156
601,	2.542602,	1.189075,	129,	161
602,	2.513999,	1.228548,	131,	167
603,	2.479391,	1.26787,	134,	172
604,	2.438926,	1.306008,	137,	177
605,	2.392775,	1.342915,	139,	181
606,	2.341126,	1.378692,	142,	186
607,	2.284162,	1.413009,	144,	191
608,	2.222103,	1.446241,	147,	195
609,	2.155153,	1.477666,	149,	200
610,	2.083546,	1.507399,	152,	204
611,	2.007518,	1.535537,	155,	209
612,	1.927315,	1.561917,	157,	213
613,	1.843181,	1.586257,	160,	217

614,	1.755386,	1.609014,	162,	221
615,	1.664182,	1.629534,	165,	226
616,	1.569836,	1.648258,	167,	230
617,	1.472627,	1.665129,	170,	234
618,	1.372824,	1.67997,	173,	238
619,	1.270697,	1.692603,	175,	242
620,	1.166528,	1.703423,	178,	246
621,	1.060593,	1.71212,	180,	250
622,	.953159,	1.718842,	183,	254
623,	.8445088,	1.72361,	186,	257
624,	.7349162,	1.72633,	188,	261
625,	.6246436,	1.727348,	191,	265
626,	.513984,	1.726216,	194,	269
627,	.4032233,	1.723157,	197,	273
628,	.2927127,	1.718387,	202,	276
629,	.1830275,	1.711778,	207,	280
630,	7.667786E-02,	1.703308,	224,	284
631,	4.942288E-02,	1.693065,	345,	288
632,	.1503982,	1.681133,	13,	291
633,	.2562357,	1.667592,	20,	295
634,	.36143,	1.652285,	25,	299
635,	.4652628,	1.63552,	28,	302
636,	.5674062,	1.617374,	31,	306
637,	.6676338,	1.597553,	34,	310
638,	.7657511,	1.576244,	36,	313
639,	.8615786,	1.553887,	39,	317
640,	.9549633,	1.529925,	41,	321
641,	1.045759,	1.504803,	44,	324
642,	1.133814,	1.478724,	46,	328
643,	1.219009,	1.450964,	48,	332
644,	1.30122,	1.422387,	51,	335
645,	1.380336,	1.392942,	53,	339
646,	1.456245,	1.362429,	55,	343
647,	1.528858,	1.330776,	57,	346
648,	1.598079,	1.298349,	59,	350
649,	1.663822,	1.264937,	62,	354
650,	1.726013,	1.231092,	64,	358
651,	1.784575,	1.19629,	66,	1
652,	1.839444,	1.160611,	68,	5
653,	1.890555,	1.124669,	70,	9
654,	1.93785,	1.088078,	72,	13
655,	1.981279,	1.050956,	74,	17
656,	2.020791,	1.013245,	76,	21
657,	2.05634,	.9748763,	78,	25
658,	2.087885,	.9363968,	80,	29
659,	2.115385,	.8975742,	82,	34
660,	2.138806,	.8585896,	84,	38
661,	2.15812,	.819659,	86,	42
662,	2.173292,	.7805399,	88,	47
663,	2.1843,	.7412028,	90,	52
664,	2.191123,	.7027253,	92,	57
665,	2.193737,	.6640797,	94,	62
666,	2.192143,	.6261729,	96,	68
667,	2.186313,	.5891477,	98,	74
668,	2.176251,	.5531814,	100,	80
669,	2.16196,	.5184945,	102,	87
670,	2.14344,	.4857647,	103,	94

671,	2.120707,	.4554141,	105,	102
672,	2.093772,	.4279495,	107,	110
673,	2.062691,	.4039601,	109,	119
674,	2.027467,	.3851153,	110,	129
675,	1.988179,	.3716712,	112,	139
676,	1.944874,	.363689,	114,	150
677,	1.897626,	.3620715,	115,	161
678,	1.846552,	.3669027,	117,	172
679,	1.791732,	.3794855,	118,	183
680,	1.733327,	.3966284,	119,	193
681,	1.671496,	.4191728,	121,	203
682,	1.606426,	.4458623,	122,	212
683,	1.538378,	.476,	123,	220
684,	1.46761,	.5097418,	123,	228
685,	1.394497,	.5449862,	124,	235
686,	1.319467,	.5821323,	124,	241
687,	1.243073,	.6205235,	124,	248
688,	1.165965,	.6608312,	124,	254
689,	1.089036,	.701332,	123,	259
690,	1.013415,	.7419941,	122,	265
691,	.9405305,	.7830421,	120,	270
692,	.8722827,	.8246555,	117,	275
693,	.811055,	.8660753,	113,	280
694,	.7597857,	.9075435,	108,	285
695,	.7218108,	.9484348,	102,	290
696,	.7004243,	.9892165,	95,	294
697,	.6981644,	1.029331,	88,	299
698,	.7160597,	1.068855,	80,	303
699,	.7533355,	1.10785,	74,	308
700,	.8077651,	1.146029,	68,	312
701,	.876466,	1.18347,	63,	316
702,	.9565004,	1.220083,	60,	321
703,	1.045221,	1.255627,	57,	325
704,	1.140487,	1.290343,	56,	329
705,	1.240558,	1.323557,	55,	334
706,	1.344019,	1.3561,	54,	338
707,	1.449705,	1.387175,	54,	342
708,	1.556724,	1.416878,	54,	346
709,	1.664263,	1.445429,	55,	350
710,	1.771632,	1.472896,	56,	355
711,	1.878273,	1.498424,	57,	359
712,	1.983621,	1.522882,	58,	3
713,	2.08723,	1.545435,	59,	7
714,	2.188638,	1.56679,	61,	11
715,	2.287427,	1.586257,	62,	16
716,	2.383228,	1.604391,	64,	20
717,	2.475688,	1.620634,	66,	24
718,	2.564459,	1.635282,	68,	28
719,	2.649218,	1.648021,	70,	32
720,	2.72967,	1.659132,	71,	37
721,	2.805527,	1.668647,	73,	41
722,	2.87652,	1.676126,	76,	45
723,	2.942403,	1.68183,	78,	49
724,	3.00294,	1.685661,	80,	53
725,	3.057914,	1.687746,	82,	58
726,	3.107129,	1.687862,	84,	62
727,	3.150403,	1.685892,	86,	66

728,	3.187574,	1.682295,	88,	71
729,	3.218503,	1.676826,	90,	75
730,	3.243064,	1.669466,	93,	79
731,	3.261158,	1.660074,	95,	83
732,	3.272694,	1.648732,	97,	88
733,	3.277616,	1.635879,	99,	92
734,	3.275892,	1.620995,	101,	97
735,	3.267489,	1.604269,	104,	101
736,	3.252428,	1.58601,	106,	105
737,	3.230717,	1.565792,	108,	110
738,	3.202419,	1.543663,	110,	114
739,	3.167618,	1.520055,	112,	119
740,	3.126389,	1.494766,	114,	123
741,	3.078881,	1.468109,	116,	128
742,	3.025222,	1.439601,	118,	133
743,	2.965609,	1.409684,	120,	137
744,	2.90022,	1.378408,	122,	142
745,	2.8293,	1.345679,	124,	147
746,	2.753128,	1.311983,	126,	151
747,	2.671968,	1.276784,	128,	156
748,	2.586186,	1.240429,	129,	161
749,	2.496114,	1.203298,	131,	166
750,	2.402186,	1.165152,	132,	171
751,	2.30488,	1.126233,	134,	177
752,	2.204687,	1.086819,	135,	182
753,	2.10223,	1.046667,	136,	187
754,	1.998144,	1.006271,	136,	193
755,	1.893243,	.9658055,	137,	198
756,	1.788388,	.925471,	137,	204
757,	1.684651,	.885065,	137,	210
758,	1.583284,	.8450407,	136,	217
759,	1.485723,	.806426,	135,	223
760,	1.393729,	.7684157,	134,	230
761,	1.309303,	.732174,	131,	237
762,	1.234769,	.6979766,	128,	245
763,	1.172648,	.6667258,	125,	252
764,	1.125443,	.637935,	120,	261
765,	1.09539,	.6125908,	116,	269
766,	1.084013,	.5914677,	111,	278
767,	1.091803,	.5750312,	106,	288
768,	1.118094,	.5636917,	101,	297
769,	1.16119,	.5581109,	96,	307
770,	1.218724,	.5577602,	93,	317
771,	1.288093,	.5636917,	90,	326
772,	1.366703,	.5746909,	88,	336
773,	1.45224,	.5908058,	86,	345
774,	1.542652,	.611312,	85,	354
775,	1.636195,	.6357846,	84,	2
776,	1.731471,	.663785,	84,	11
777,	1.827233,	.6943234,	84,	18
778,	1.922523,	.7270798,	84,	25
779,	2.016442,	.7617679,	85,	32
780,	2.10833,	.7976454,	86,	39
781,	2.197552,	.8345589,	87,	45
782,	2.28358,	.8719278,	88,	51
783,	2.365985,	.9099112,	89,	57
784,	2.44436,	.9476095,	91,	63

785,	2.518398,	.9852542,	92,	68
786,	2.5878,	1.022468,	94,	74
787,	2.652296,	1.059297,	96,	79
788,	2.711708,	1.095244,	97,	84
789,	2.76583,	1.130393,	99,	89
790,	2.814533,	1.16448,	101,	94
791,	2.857683,	1.197597,	103,	98
792,	2.895203,	1.229821,	105,	103
793,	2.927011,	1.260601,	107,	107
794,	2.953065,	1.290191,	109,	112
795,	2.973331,	1.318079,	111,	116
796,	2.987816,	1.344661,	113,	121
797,	2.996544,	1.369729,	115,	125
798,	2.999542,	1.393363,	117,	129
799,	2.996862,	1.415359,	119,	133
800,	2.988587,	1.435521,	121,	137
801,	2.974796,	1.454194,	123,	142
802,	2.955595,	1.471435,	125,	146
803,	2.931102,	1.486767,	127,	150
804,	2.901452,	1.500379,	129,	154
805,	2.866788,	1.51219,	131,	158
806,	2.827266,	1.522496,	132,	161
807,	2.783062,	1.530947,	134,	165
808,	2.734352,	1.537827,	136,	169
809,	2.681315,	1.542776,	138,	173
810,	2.62416,	1.546194,	140,	177
811,	2.5631,	1.547836,	142,	181
812,	2.498334,	1.547836,	144,	184
813,	2.430092,	1.54632,	145,	188
814,	2.358615,	1.542903,	147,	192
815,	2.284122,	1.538081,	149,	195
816,	2.206877,	1.531713,	150,	199
817,	2.127107,	1.523652,	152,	203
818,	2.045084,	1.514127,	153,	206
819,	1.961098,	1.503373,	154,	210
820,	1.87541,	1.490837,	156,	214
821,	1.7883,	1.477005,	157,	217
822,	1.700091,	1.461704,	158,	221
823,	1.61113,	1.444888,	159,	224
824,	1.521745,	1.427052,	159,	228
825,	1.432345,	1.408019,	160,	231
826,	1.343391,	1.387457,	160,	235
827,	1.255351,	1.365869,	160,	239
828,	1.168845,	1.343206,	159,	242
829,	1.084541,	1.319265,	158,	246
830,	1.003303,	1.294126,	157,	249
831,	.9261884,	1.268025,	155,	253
832,	.8544455,	1.240744,	153,	256
833,	.7896402,	1.212527,	149,	260
834,	.7336162,	1.18347,	145,	264
835,	.68846,	1.153512,	139,	267
836,	.6561999,	1.122755,	133,	271
837,	.6385282,	1.09095,	127,	274
838,	.6362846,	1.058558,	120,	278
839,	.6491856,	1.025143,	113,	282
840,	.6758502,	.9909945,	107,	286
841,	.7142135,	.956035,	102,	290

842,	.7619388,	.920597,	98,	293
843,	.8167877,	.8844018,	94,	297
844,	.8768507,	.847814,	92,	301
845,	.9405588,	.8107806,	90,	306
846,	1.006629,	.7729846,	88,	310
847,	1.074022,	.7353733,	88,	314
848,	1.14197,	.6971353,	87,	319
849,	1.209808,	.6584586,	87,	323
850,	1.276989,	.6202082,	87,	328
851,	1.343092,	.5817961,	88,	334
852,	1.407718,	.5442677,	88,	339
853,	1.470572,	.506662,	89,	345
854,	1.531352,	.4697941,	90,	352
855,	1.589791,	.4347533,	91,	359
856,	1.645686,	.4015311,	92,	6
857,	1.698797,	.3711444,	94,	15
858,	1.748955,	.3437763,	95,	24
859,	1.79595,	.3214216,	96,	35
860,	1.839627,	.3045424,	98,	47
861,	1.879815,	.2947477,	100,	59
862,	1.916351,	.293417,	101,	72
863,	1.9491,	.3006628,	103,	85
864,	1.97791,	.3152755,	105,	97
865,	2.002657,	.3362959,	107,	108
866,	2.023213,	.363689,	108,	118
867,	2.039452,	.3951457,	110,	128
868,	2.051273,	.4302294,	112,	136
869,	2.058571,	.468543,	114,	144
870,	2.06125,	.5085891,	116,	151
871,	2.059229,	.5496333,	118,	157
872,	2.052427,	.5927894,	120,	163
873,	2.040786,	.6360922,	122,	169
874,	2.024251,	.6809518,	124,	174
875,	2.002774,	.7251939,	126,	179
876,	1.97633,	.7696876,	129,	184
877,	1.944893,	.8141513,	131,	189
878,	1.908457,	.8585896,	133,	194
879,	1.867039,	.9027892,	135,	198
880,	1.820641,	.9463702,	137,	203
881,	1.769316,	.9898096,	140,	207
882,	1.71309,	1.031988,	142,	212
883,	1.652049,	1.073966,	144,	216
884,	1.586244,	1.114713,	146,	220
885,	1.51578,	1.155037,	148,	224
886,	1.44076,	1.193999,	151,	229
887,	1.361322,	1.231886,	153,	233
888,	1.277594,	1.26895,	155,	237
889,	1.189707,	1.304659,	157,	241
890,	1.097847,	1.339124,	159,	245
891,	1.002216,	1.372153,	162,	249
892,	.9029887,	1.403708,	164,	253
893,	.8004218,	1.43375,	166,	258
894,	.6947352,	1.462506,	167,	262
895,	.5862393,	1.489657,	169,	266
896,	.4753266,	1.515031,	170,	270
897,	.362505,	1.538971,	170,	274
898,	.2489078,	1.561041,	167,	278

899,	.1385626,	1.581444,	156,	282
900,	6.718945E-02,		1.600121,	99, 287
901,	.1379679,	1.61689,	40,	291
902,	.2522302,	1.631811,	28,	295
903,	.3725892,	1.645053,	26,	299
904,	.4948961,	1.656302,	26,	303
905,	.617929,	1.665833,	27,	308
906,	.7410972,	1.673442,	29,	312
907,	.8639296,	1.679272,	30,	316
908,	.9860078,	1.68334,	32,	320
909,	1.107014,	1.685429,	35,	325
910,	1.226572,	1.685777,	37,	329
911,	1.344319,	1.684385,	39,	334
912,	1.459944,	1.681249,	42,	338
913,	1.573134,	1.676243,	44,	342
914,	1.683545,	1.669818,	46,	347
915,	1.790846,	1.661604,	49,	351
916,	1.894754,	1.651693,	51,	356
917,	1.994946,	1.640413,	54,	0
918,	2.091158,	1.627494,	56,	5
919,	2.183086,	1.61326,	59,	10
920,	2.270447,	1.597676,	62,	14
921,	2.353008,	1.580702,	64,	19
922,	2.43051,	1.562668,	67,	24
923,	2.502709,	1.543157,	69,	29
924,	2.569387,	1.522753,	72,	33
925,	2.630356,	1.501421,	74,	38
926,	2.685413,	1.478989,	77,	43
927,	2.734385,	1.455807,	79,	48
928,	2.777113,	1.431976,	82,	53
929,	2.81347,	1.407325,	85,	59
930,	2.843325,	1.382233,	87,	64
931,	2.866587,	1.356677,	90,	69
932,	2.883166,	1.330922,	92,	74
933,	2.893008,	1.304659,	95,	80
934,	2.89607,	1.278468,	97,	85
935,	2.892332,	1.25204,	100,	91
936,	2.881791,	1.225839,	102,	96
937,	2.864471,	1.199881,	104,	102
938,	2.840416,	1.174014,	107,	108
939,	2.809689,	1.148756,	109,	114
940,	2.772372,	1.123973,	112,	120
941,	2.728583,	1.100055,	114,	126
942,	2.67845,	1.076694,	116,	132
943,	2.622119,	1.054486,	118,	138
944,	2.55978,	1.033125,	121,	144
945,	2.49162,	1.012859,	123,	151
946,	2.417871,	.9941474,	125,	157
947,	2.338791,	.9764801,	127,	164
948,	2.254663,	.9607291,	129,	171
949,	2.165775,	.9461636,	131,	177
950,	2.072492,	.9332584,	132,	184
951,	1.975212,	.9222952,	134,	191
952,	1.874343,	.9131301,	135,	198
953,	1.770396,	.9058176,	137,	205
954,	1.663952,	.8999681,	138,	212
955,	1.555651,	.8964838,	138,	219

956,	1.44632,	.8945179,	139,	226
957,	1.336908,	.8942993,	139,	233
958,	1.228655,	.8960473,	138,	240
959,	1.123156,	.8997508,	137,	247
960,	1.022466,	.9049533,	134,	254
961,	.9293021,	.9116293,	131,	261
962,	.8472643,	.9197466,	127,	268
963,	.7808341,	.9296885,	120,	274
964,	.7349983,	.9405653,	113,	281
965,	.7142846,	.9529612,	104,	288
966,	.7211173,	.9664128,	96,	294
967,	.7547503,	.980877,	88,	300
968,	.8116294,	.9961129,	81,	307
969,	.886903,	1.012665,	75,	313
970,	.9757661,	1.029711,	71,	319
971,	1.074186,	1.047414,	69,	325
972,	1.179049,	1.06574,	67,	331
973,	1.288015,	1.084657,	66,	337
974,	1.399296,	1.103959,	65,	343
975,	1.511529,	1.123799,	65,	348
976,	1.623694,	1.143637,	66,	354
977,	1.734944,	1.163976,	66,	359
978,	1.844591,	1.184461,	67,	5
979,	1.952104,	1.205085,	68,	10
980,	2.056979,	1.22568,	70,	16
981,	2.158852,	1.246248,	71,	21
982,	2.257356,	1.266945,	73,	26
983,	2.35217,	1.287612,	74,	31
984,	2.443067,	1.307953,	76,	36
985,	2.529778,	1.327981,	78,	41
986,	2.612135,	1.348002,	80,	46
987,	2.689938,	1.367443,	81,	51
988,	2.763016,	1.386752,	83,	56
989,	2.831267,	1.405517,	85,	60
990,	2.894548,	1.424035,	87,	65
991,	2.952794,	1.442044,	89,	70
992,	3.005892,	1.459428,	91,	74
993,	3.053809,	1.476475,	93,	79
994,	3.096484,	1.492803,	95,	83
995,	3.133875,	1.508306,	97,	88
996,	3.165986,	1.523395,	100,	92
997,	3.192781,	1.5377,	102,	97
998,	3.214302,	1.551369,	104,	101
999,	3.230549,	1.564168,	106,	105
1000,	3.241551,	1.576244,	108,	109
1001,	3.247349,	1.587365,	110,	114
1002,	3.247999,	1.597798,	112,	118
1003,	3.24355,	1.60719,	114,	122
1004,	3.234078,	1.615802,	116,	126
1005,	3.219655,	1.623405,	118,	130
1006,	3.200362,	1.630134,	120,	134
1007,	3.176291,	1.63576,	122,	138
1008,	3.14753,	1.640413,	124,	142
1009,	3.114187,	1.644221,	126,	146
1010,	3.076361,	1.646835,	128,	150
1011,	3.034165,	1.648377,	130,	154
1012,	2.987714,	1.64897,	132,	158

1013,	2.937124,	1.648377,	134,	162
1014,	2.882519,	1.646597,	136,	165
1015,	2.824031,	1.643746,	137,	169
1016,	2.761786,	1.639936,	139,	173
1017,	2.69591,	1.634564,	141,	177
1018,	2.626554,	1.628334,	143,	181
1019,	2.553863,	1.620875,	145,	184
1020,	2.477973,	1.611926,	146,	188
1021,	2.399052,	1.602074,	148,	192
1022,	2.317252,	1.590687,	150,	196
1023,	2.232746,	1.578227,	151,	199
1024,	2.145731,	1.564293,	153,	203
1025,	2.056375,	1.548846,	154,	207
1026,	1.964902,	1.532606,	155,	211
1027,	1.871557,	1.514644,	157,	214
1028,	1.776584,	1.495551,	158,	218
1029,	1.680253,	1.474885,	159,	222
1030,	1.58291,	1.452715,	159,	226
1031,	1.484963,	1.429516,	160,	230
1032,	1.386845,	1.404822,	160,	233
1033,	1.289148,	1.378834,	160,	237
1034,	1.192545,	1.351189,	160,	241
1035,	1.097956,	1.322374,	159,	245
1036,	1.006553,	1.29216,	157,	249
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1038,	.8398182,	1.227274,	151,	257
1039,	.7691126,	1.193016,	147,	261
1040,	.7109075,	1.157236,	141,	266
1041,	.6688081,	1.120662,	134,	270
1042,	.6461782,	1.082853,	126,	274
1043,	.645132,	1.043673,	118,	279
1044,	.665694,	1.003547,	110,	284
1045,	.7057537,	.9625597,	103,	288
1046,	.761934,	.9208094,	97,	293
1047,	.8305542,	.8786324,	93,	299
1048,	.9082841,	.835964,	90,	304
1049,	.9924651,	.7937118,	87,	310
1050,	1.080989,	.7514256,	86,	316
1051,	1.17222,	.7099265,	85,	323
1052,	1.264923,	.6696537,	85,	330
1053,	1.35814,	.6317717,	85,	337
1054,	1.451061,	.5964087,	86,	345
1055,	1.543018,	.5650784,	86,	354
1056,	1.633496,	.5384855,	87,	3
1057,	1.722004,	.5188718,	89,	14
1058,	1.808112,	.5055022,	90,	24
1059,	1.891475,	.5016168,	92,	35
1060,	1.971723,	.506662,	93,	47
1061,	2.048583,	.5207536,	95,	58
1062,	2.121744,	.5439081,	97,	68
1063,	2.190936,	.5753714,	99,	78
1064,	2.255921,	.6132292,	101,	87
1065,	2.316489,	.6569713,	103,	96
1066,	2.372404,	.7060581,	106,	104
1067,	2.423469,	.7591955,	108,	112
1068,	2.469518,	.8151119,	110,	118
1069,	2.510377,	.8739446,	113,	125

1070,	2.545882,	.9351426,	115,	131
1071,	2.575921,	.9974865,	118,	137
1072,	2.600368,	1.060958,	120,	142
1073,	2.61912,	1.125365,	123,	148
1074,	2.63209,	1.190226,	125,	153
1075,	2.639215,	1.25516,	128,	158
1076,	2.64045,	1.320154,	131,	162
1077,	2.635761,	1.385059,	134,	167
1078,	2.625133,	1.449481,	136,	172
1079,	2.608583,	1.513482,	139,	176
1080,	2.586134,	1.576492,	142,	181
1081,	2.557839,	1.638267,	145,	185
1082,	2.523766,	1.699172,	148,	189
1083,	2.484015,	1.758742,	151,	193
1084,	2.438697,	1.816892,	154,	197
1085,	2.387952,	1.873233,	158,	202
1086,	2.331952,	1.928025,	161,	206
1087,	2.270885,	1.980805,	164,	210
1088,	2.204969,	2.031633,	168,	214
1089,	2.134469,	2.080372,	171,	218
1090,	2.059659,	2.126705,	175,	222
1091,	1.98087,	2.170878,	179,	226
1092,	1.89848,	2.212401,	183,	230
1093,	1.812904,	2.25151,	187,	234
1094,	1.724626,	2.2879,	191,	238
1095,	1.634215,	2.321533,	196,	242
1096,	1.542327,	2.352277,	200,	245
1097,	1.44973,	2.380246,	206,	249
1098,	1.357356,	2.405131,	211,	253
1099,	1.266358,	2.427026,	217,	257
1100,	1.178097,	2.445614,	224,	261
1101,	1.094293,	2.461366,	231,	265
1102,	1.017025,	2.473706,	239,	269
1103,	.9488104,	2.482842,	248,	273
1104,	.8925216,	2.48881,	258,	276
1105,	.8511377,	2.491474,	269,	280
1106,	.8273522,	2.490769,	280,	284
1107,	.8229278,	2.48677,	292,	288
1108,	.838178,	2.479617,	303,	292
1109,	.8718807,	2.469046,	315,	296
1110,	.921636,	2.455253,	325,	300
1111,	.9844775,	2.43834,	334,	304
1112,	1.057443,	2.418001,	343,	308
1113,	1.137821,	2.394556,	350,	312
1114,	1.223346,	2.367912,	357,	315
1115,	1.31214,	2.338292,	3,	319
1116,	1.402661,	2.305752,	9,	323
1117,	1.49369,	2.270165,	15,	327
1118,	1.584175,	2.231473,	20,	331
1119,	1.673297,	2.190312,	24,	335
1120,	1.760311,	2.146541,	29,	339
1121,	1.844626,	2.09981,	33,	344
1122,	1.925703,	2.050868,	37,	348
1123,	2.003069,	1.999456,	41,	352
1124,	2.076334,	1.945677,	45,	356
1125,	2.145124,	1.889848,	48,	0
1126,	2.209137,	1.832207,	52,	4

1127,	2.26808,	1.772356,	55,	9
1128,	2.321695,	1.710978,	59,	13
1129,	2.369776,	1.648021,	62,	18
1130,	2.412125,	1.58379,	65,	22
1131,	2.44857,	1.518124,	69,	27
1132,	2.478975,	1.451368,	72,	31
1133,	2.503228,	1.383929,	75,	36
1134,	2.521229,	1.316149,	78,	41
1135,	2.532897,	1.247816,	81,	46
1136,	2.538201,	1.179498,	84,	52
1137,	2.537095,	1.111551,	87,	57
1138,	2.529581,	1.044047,	90,	63
1139,	2.515662,	.9778812,	93,	69
1140,	2.495379,	.9133442,	95,	75
1141,	2.46878,	.8505782,	98,	82
1142,	2.435925,	.7912433,	101,	90
1143,	2.396908,	.7359052,	104,	98
1144,	2.351842,	.6852478,	106,	107
1145,	2.300842,	.6406891,	109,	116
1146,	2.244046,	.6042302,	112,	126
1147,	2.18161,	.5763906,	114,	137
1148,	2.113714,	.5588115,	116,	149
1149,	2.040545,	.5524735,	119,	160
1150,	1.962298,	.5574093,	121,	172
1151,	1.879199,	.5726447,	124,	183
1152,	1.791495,	.5977194,	126,	194
1153,	1.699432,	.6305318,	128,	204
1154,	1.603294,	.6699457,	130,	213
1155,	1.50339,	.7145957,	132,	222
1156,	1.400052,	.7630509,	133,	230
1157,	1.293643,	.8139111,	135,	237
1158,	1.184616,	.8667527,	136,	244
1159,	1.073495,	.9214465,	137,	250
1160,	.9609357,	.9762798,	137,	256
1161,	.8478512,	1.03142,	137,	262
1162,	.7355164,	1.086279,	136,	267
1163,	.6260005,	1.141069,	133,	272
1164,	.5228444,	1.195145,	128,	277
1165,	.4324067,	1.248286,	119,	282
1166,	.3661136,	1.300757,	105,	287
1167,	.3400203,	1.351768,	86,	291
1168,	.3639424,	1.401617,	67,	296
1169,	.4302186,	1.45029,	53,	300
1170,	.5232173,	1.497771,	44,	304
1171,	.6312268,	1.543663,	38,	309
1172,	.7475672,	1.587981,	35,	313
1173,	.8686041,	1.630973,	34,	317
1174,	.9922454,	1.672391,	33,	321
1175,	1.117176,	1.712234,	33,	325
1176,	1.242486,	1.750388,	34,	329
1177,	1.367589,	1.78707,	35,	333
1178,	1.491977,	1.822261,	36,	337
1179,	1.615241,	1.855626,	37,	341
1180,	1.73708,	1.887572,	39,	344
1181,	1.857174,	1.917966,	41,	348
1182,	1.975306,	1.946681,	42,	352
1183,	2.091228,	1.973889,	44,	356

1184,	2.204708,	1.999553,	46,	0
1185,	2.315568,	2.023733,	48,	3
1186,	2.423643,	2.046482,	50,	7
1187,	2.528739,	2.067563,	52,	11
1188,	2.630684,	2.087308,	54,	14
1189,	2.729348,	2.105476,	56,	18
1190,	2.824571,	2.122293,	58,	22
1191,	2.916204,	2.137606,	60,	26
1192,	3.004138,	2.151721,	62,	29
1193,	3.088216,	2.164301,	64,	33
1194,	3.168348,	2.175461,	66,	37
1195,	3.244401,	2.185403,	68,	40
1196,	3.316245,	2.193965,	70,	44
1197,	3.383805,	2.201163,	73,	48
1198,	3.446947,	2.207099,	75,	51
1199,	3.505599,	2.211695,	77,	55
1200,	3.559635,	2.214959,	79,	59
1201,	3.608992,	2.216987,	81,	62
1202,	3.653565,	2.217691,	83,	66
1203,	3.693265,	2.217075,	85,	70
1204,	3.728025,	2.215312,	88,	74
1205,	3.757758,	2.212225,	90,	77
1206,	3.782397,	2.207807,	92,	81
1207,	3.801875,	2.202139,	94,	85
1208,	3.816124,	2.195122,	96,	88
1209,	3.825089,	2.186832,	98,	92
1210,	3.828718,	2.177346,	100,	96
1211,	3.826959,	2.166375,	103,	100
1212,	3.819779,	2.154261,	105,	104
1213,	3.807145,	2.140619,	107,	107
1214,	3.789025,	2.125879,	109,	111
1215,	3.765399,	2.109647,	111,	115
1216,	3.736265,	2.092169,	113,	119
1217,	3.701624,	2.073224,	115,	123
1218,	3.661472,	2.052963,	118,	127
1219,	3.615835,	2.031249,	120,	131
1220,	3.564755,	2.008229,	122,	134
1221,	3.508255,	1.983761,	124,	138
1222,	3.446412,	1.957789,	126,	142
1223,	3.379267,	1.930557,	128,	146
1224,	3.306935,	1.901906,	130,	151
1225,	3.229483,	1.871772,	132,	155
1226,	3.147048,	1.840188,	134,	159
1227,	3.059767,	1.807294,	136,	163
1228,	2.967771,	1.772797,	138,	167
1229,	2.871267,	1.737051,	139,	171
1230,	2.770424,	1.700092,	141,	176
1231,	2.665478,	1.661486,	143,	180
1232,	2.556706,	1.621719,	145,	184
1233,	2.444367,	1.580702,	146,	189
1234,	2.328831,	1.538081,	148,	193
1235,	2.210448,	1.494505,	149,	198
1236,	2.089705,	1.449481,	150,	202
1237,	1.967092,	1.403847,	151,	207
1238,	1.843258,	1.356965,	151,	212
1239,	1.718993,	1.309297,	152,	217
1240,	1.595204,	1.260446,	152,	222

1241,	1.47312,	1.211397,	151,	227
1242,	1.354242,	1.16179,	150,	233
1243,	1.24057,	1.111902,	148,	238
1244,	1.134714,	1.062063,	145,	244
1245,	1.040002,	1.012472,	141,	250
1246,	.9606199,	.9633722,	136,	256
1247,	.9013277,	.9154834,	130,	263
1248,	.8667977,	.8690065,	123,	270
1249,	.8602911,	.8251298,	115,	277
1250,	.8824892,	.7840408,	107,	285
1251,	.9311519,	.7472485,	100,	294
1252,	1.002078,	.7151431,	95,	303
1253,	1.090362,	.6889491,	90,	312
1254,	1.191526,	.6699457,	87,	322
1255,	1.301797,	.6587556,	85,	333
1256,	1.418194,	.6563755,	83,	343
1257,	1.538463,	.6631953,	83,	354
1258,	1.660808,	.6792259,	83,	4
1259,	1.783833,	.7038379,	83,	14
1260,	1.906454,	.7361709,	84,	24
1261,	2.027729,	.7757635,	85,	33
1262,	2.146931,	.8213279,	86,	41
1263,	2.263399,	.8719278,	87,	49
1264,	2.376556,	.9273712,	89,	57
1265,	2.485921,	.9858494,	91,	64
1266,	2.591082,	1.047414,	93,	71
1267,	2.691619,	1.110847,	95,	77
1268,	2.78718,	1.176344,	97,	83
1269,	2.877467,	1.242948,	99,	89
1270,	2.962179,	1.31079,	101,	95
1271,	3.041041,	1.378834,	103,	100
1272,	3.113849,	1.447322,	106,	105
1273,	3.180371,	1.515805,	108,	110
1274,	3.240443,	1.58416,	111,	115
1275,	3.293894,	1.651812,	113,	120
1276,	3.340587,	1.718955,	116,	125
1277,	3.380406,	1.78521,	118,	130
1278,	3.41327,	1.850459,	121,	134
1279,	3.439103,	1.9145,	124,	139
1280,	3.45785,	1.977053,	126,	143
1281,	3.469498,	2.038161,	129,	148
1282,	3.474044,	2.097669,	132,	152
1283,	3.471503,	2.155349,	135,	156
1284,	3.461915,	2.211077,	137,	160
1285,	3.445345,	2.264654,	140,	165
1286,	3.421876,	2.316313,	143,	169
1287,	3.391614,	2.36552,	146,	173
1288,	3.354677,	2.412505,	149,	177
1289,	3.311221,	2.456842,	152,	181
1290,	3.26141,	2.498827,	155,	185
1291,	3.205427,	2.537963,	158,	189
1292,	3.143481,	2.574531,	161,	193
1293,	3.075798,	2.608341,	164,	197
1294,	3.002625,	2.63913,	167,	201
1295,	2.924227,	2.667149,	171,	205
1296,	2.840882,	2.692195,	174,	209
1297,	2.752904,	2.714206,	177,	213

1298,	2.66061,	2.732973,	181,	217
1299,	2.564358,	2.748915,	184,	220
1300,	2.464511,	2.761588,	188,	224
1301,	2.361467,	2.771178,	191,	228
1302,	2.255646,	2.777646,	195,	232
1303,	2.147506,	2.780804,	199,	236
1304,	2.037544,	2.780944,	203,	240
1305,	1.926295,	2.777786,	207,	243
1306,	1.814351,	2.771389,	212,	247
1307,	1.702402,	2.762082,	216,	251
1308,	1.591186,	2.749553,	221,	255
1309,	1.481602,	2.733972,	227,	258
1310,	1.374661,	2.715285,	232,	262
1311,	1.271603,	2.693499,	239,	266
1312,	1.173916,	2.668831,	246,	270
1313,	1.083371,	2.641125,	253,	273
1314,	1.002087,	2.610659,	262,	277
1315,	.9325091,	2.57741,	271,	281
1316,	.8772357,	2.541268,	281,	284
1317,	.8387179,	2.502651,	292,	288
1318,	.8187296,	2.461446,	303,	292
1319,	.8178769,	2.417517,	315,	295
1320,	.8352976,	2.371372,	326,	299
1321,	.8688796,	2.32271,	336,	303
1322,	.9157727,	2.271971,	346,	307
1323,	.9729196,	2.219012,	355,	310
1324,	1.037492,	2.16394,	2,	314
1325,	1.107077,	2.107053,	9,	318
1326,	1.179664,	2.048199,	16,	321
1327,	1.253677,	1.987598,	22,	325
1328,	1.327829,	1.92549,	27,	329
1329,	1.401126,	1.861723,	32,	333
1330,	1.472745,	1.796667,	37,	336
1331,	1.542026,	1.730174,	41,	340
1332,	1.608457,	1.662662,	45,	344
1333,	1.671582,	1.594124,	49,	348
1334,	1.731057,	1.524549,	53,	352
1335,	1.786577,	1.45406,	57,	356
1336,	1.837886,	1.38294,	60,	0
1337,	1.884795,	1.311237,	63,	4
1338,	1.927118,	1.239167,	67,	8
1339,	1.964733,	1.166829,	70,	12
1340,	1.99751,	1.094351,	73,	16
1341,	2.025375,	1.021894,	76,	21
1342,	2.048254,	.9492594,	79,	26
1343,	2.066098,	.8772956,	82,	31
1344,	2.07888,	.8061834,	85,	36
1345,	2.086572,	.7359052,	88,	41
1346,	2.089195,	.6670191,	90,	47
1347,	2.086736,	.6000062,	93,	54
1348,	2.079229,	.535571,	96,	61
1349,	2.066703,	.4747653,	98,	69
1350,	2.049207,	.4191728,	101,	79
1351,	2.026788,	.3711444,	103,	91
1352,	1.999507,	.3327867,	106,	105
1353,	1.967443,	.3083732,	108,	120
1354,	1.930654,	.3013129,	111,	137

1355,	1.889235,	.3115295,	113,	154
1356,	1.843275,	.3362959,	116,	169
1357,	1.792863,	.3742941,	118,	182
1358,	1.7381,	.4205708,	120,	194
1359,	1.679086,	.4718718,	122,	203
1360,	1.615951,	.5267307,	125,	211
1361,	1.548785,	.5844801,	127,	218
1362,	1.477744,	.6434314,	129,	224
1363,	1.402924,	.7030036,	131,	230
1364,	1.324483,	.7625379,	133,	235
1365,	1.242576,	.8225179,	135,	240
1366,	1.157341,	.8824089,	136,	245
1367,	1.068989,	.9416046,	138,	250
1368,	.9777265,	1.000032,	139,	254
1369,	.8837917,	1.057819,	140,	258
1370,	.7875009,	1.114889,	141,	262
1371,	.6893068,	1.171012,	141,	266
1372,	.5898823,	1.226318,	141,	270
1373,	.4903127,	1.28076,	139,	274
1374,	.3927868,	1.333858,	135,	278
1375,	.3020094,	1.386047,	126,	282
1376,	.2297222,	1.437155,	109,	286
1377,	.2010333,	1.487161,	81,	290
1378,	.2354773,	1.535919,	53,	293
1379,	.3147419,	1.58342,	37,	297
1380,	.4150735,	1.629654,	29,	301
1381,	.5253631,	1.674726,	24,	304
1382,	.6410092,	1.718387,	23,	308
1383,	.7599312,	1.76063,	22,	312
1384,	.8809655,	1.801663,	22,	315
1385,	1.003437,	1.841462,	23,	319
1386,	1.126812,	1.879585,	24,	323
1387,	1.250723,	1.916438,	25,	326
1388,	1.374825,	1.951793,	27,	330
1389,	1.498796,	1.98573,	29,	334
1390,	1.622386,	2.018127,	31,	337
1391,	1.745292,	2.049058,	32,	341
1392,	1.867283,	2.078493,	34,	345
1393,	1.988083,	2.106311,	36,	349
1394,	2.107411,	2.132575,	39,	352
1395,	2.225049,	2.157432,	41,	356
1396,	2.340705,	2.180482,	43,	0
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1398,	2.56512,	2.222089,	47,	7
1399,	2.673342,	2.240381,	50,	11
1400,	2.778584,	2.25714,	52,	15
1401,	2.880579,	2.272229,	54,	19
1402,	2.979088,	2.285594,	57,	23
1403,	3.073848,	2.297439,	59,	27
1404,	3.164649,	2.307699,	61,	31
1405,	3.251212,	2.316313,	64,	35
1406,	3.333327,	2.32313,	66,	38
1407,	3.410753,	2.328419,	68,	42
1408,	3.483284,	2.332105,	71,	46
1409,	3.550697,	2.334114,	73,	50
1410,	3.6128,	2.334532,	76,	55
1411,	3.669384,	2.333277,	78,	59

1412,	3.720267,	2.330514,	81,	63
1413,	3.765276,	2.326154,	83,	67
1414,	3.804255,	2.320187,	86,	71
1415,	3.837056,	2.312685,	88,	75
1416,	3.863528,	2.303549,	91,	79
1417,	3.88357,	2.293015,	93,	83
1418,	3.897055,	2.280977,	96,	88
1419,	3.903915,	2.267325,	98,	92
1420,	3.904054,	2.252203,	100,	96
1421,	3.897422,	2.235582,	103,	100
1422,	3.883966,	2.217691,	105,	105
1423,	3.863677,	2.198322,	108,	109
1424,	3.836549,	2.177525,	110,	114
1425,	3.802578,	2.155349,	113,	118
1426,	3.76182,	2.132025,	115,	122
1427,	3.7143,	2.107146,	118,	127
1428,	3.66008,	2.081217,	120,	131
1429,	3.599282,	2.053914,	123,	136
1430,	3.531995,	2.025374,	125,	140
1431,	3.458356,	1.995641,	127,	145
1432,	3.378512,	1.964961,	130,	149
1433,	3.292614,	1.932782,	132,	154
1434,	3.200861,	1.89985,	134,	159
1435,	3.103473,	1.865707,	137,	163
1436,	3.0007,	1.830499,	139,	168
1437,	2.892758,	1.794381,	141,	173
1438,	2.779965,	1.757296,	143,	178
1439,	2.662619,	1.71941,	145,	183
1440,	2.541013,	1.680551,	147,	187
1441,	2.415576,	1.641009,	149,	192
1442,	2.286667,	1.600731,	151,	197
1443,	2.154784,	1.559663,	152,	203
1444,	2.020401,	1.518124,	154,	208
1445,	1.884073,	1.475945,	155,	213
1446,	1.7465,	1.433341,	156,	218
1447,	1.608484,	1.390272,	156,	224
1448,	1.471026,	1.347276,	157,	229
1449,	1.33534,	1.30391,	156,	235
1450,	1.203116,	1.260446,	155,	240
1451,	1.076589,	1.217516,	153,	246
1452,	.958845,	1.17468,	150,	252
1453,	.8543143,	1.132467,	145,	258
1454,	.7688258,	1.09095,	138,	264
1455,	.7095467,	1.050583,	129,	271
1456,	.683184,	1.011893,	119,	278
1457,	.6930541,	.974475,	109,	285
1458,	.7369913,	.9395249,	99,	292
1459,	.8085204,	.9066809,	92,	299
1460,	.9000285,	.8768495,	86,	307
1461,	1.004943,	.8508081,	82,	315
1462,	1.118284,	.8284422,	80,	323
1463,	1.23652,	.8102979,	79,	331
1464,	1.357197,	.7974002,	78,	340
1465,	1.478444,	.789263,	78,	349
1466,	1.598973,	.7867805,	78,	358
1467,	1.717741,	.7897586,	79,	6
1468,	1.833978,	.7981358,	80,	15

1469,	1.947017,	.8122269,	82,	24
1470,	2.056366,	.8310356,	83,	32
1471,	2.161545,	.8549365,	85,	40
1472,	2.262176,	.8828521,	87,	48
1473,	2.357945,	.9148422,	89,	56
1474,	2.448552,	.9502891,	91,	63
1475,	2.533765,	.9882274,	93,	70
1476,	2.613382,	1.028951,	95,	77
1477,	2.687185,	1.071414,	97,	84
1478,	2.755041,	1.115941,	100,	90
1479,	2.816799,	1.161285,	102,	96
1480,	2.872379,	1.20784,	104,	102
1481,	2.921669,	1.25516,	107,	107
1482,	2.964626,	1.30301,	109,	113
1483,	3.001206,	1.350755,	112,	118
1484,	3.031375,	1.398685,	114,	123
1485,	3.055143,	1.446241,	117,	128
1486,	3.072508,	1.493589,	119,	133
1487,	3.083516,	1.54024,	122,	138
1488,	3.08823,	1.58638,	124,	143
1489,	3.086696,	1.631452,	127,	148
1490,	3.079023,	1.675776,	129,	152
1491,	3.065285,	1.718842,	132,	157
1492,	3.045617,	1.76063,	134,	161
1493,	3.020137,	1.801338,	137,	165
1494,	2.988993,	1.840719,	140,	169
1495,	2.952333,	1.878649,	142,	174
1496,	2.910336,	1.91501,	145,	178
1497,	2.863165,	1.94969,	148,	182
1498,	2.811021,	1.982875,	150,	186
1499,	2.754089,	2.014349,	153,	190
1500,	2.692588,	2.043999,	156,	194
1501,	2.626728,	2.071999,	158,	198
1502,	2.556721,	2.097949,	161,	202
1503,	2.482816,	2.122108,	164,	205
1504,	2.40523,	2.144539,	167,	209
1505,	2.324215,	2.164842,	169,	213
1506,	2.240025,	2.183347,	172,	217
1507,	2.152899,	2.199832,	175,	220
1508,	2.063111,	2.214254,	178,	224
1509,	1.970917,	2.22683,	181,	228
1510,	1.876608,	2.237416,	184,	231
1511,	1.780453,	2.246039,	187,	235
1512,	1.682757,	2.25255,	191,	238
1513,	1.583843,	2.257226,	194,	242
1514,	1.484026,	2.25982,	198,	245
1515,	1.383699,	2.260511,	201,	249
1516,	1.283238,	2.259215,	205,	252
1517,	1.18312,	2.256015,	210,	256
1518,	1.083928,	2.250902,	214,	259
1519,	.9863025,	2.243865,	219,	262
1520,	.8911464,	2.234796,	225,	266
1521,	.7995811,	2.224022,	231,	269
1522,	.7132202,	2.211342,	239,	272
1523,	.6342223,	2.196989,	247,	276
1524,	.565643,	2.180572,	258,	279
1525,	.5114825,	2.162585,	270,	282

1526,	.4762504,	2.142625,	284,	286
1527,	.4637385,	2.121096,	299,	289
1528,	.4750274,	2.097669,	314,	292
1529,	.5077779,	2.072659,	328,	296
1530,	.5574024,	2.045814,	340,	299
1531,	.6190496,	2.017449,	350,	302
1532,	.6886634,	1.987402,	359,	306
1533,	.763293,	1.955693,	6,	309
1534,	.840821,	1.922545,	12,	312
1535,	.9197574,	1.887676,	17,	315
1536,	.9990335,	1.851198,	22,	319
1537,	1.077875,	1.813339,	27,	322
1538,	1.155686,	1.774009,	31,	325
1539,	1.231992,	1.73277,	35,	329
1540,	1.306422,	1.690524,	38,	332
1541,	1.378664,	1.646597,	42,	335
1542,	1.448443,	1.601342,	45,	339
1543,	1.515523,	1.554767,	48,	342
1544,	1.579692,	1.506361,	51,	346
1545,	1.640764,	1.457149,	54,	349
1546,	1.698549,	1.406352,	57,	353
1547,	1.752896,	1.354224,	60,	356
1548,	1.803638,	1.300907,	62,	0
1549,	1.850645,	1.246405,	65,	4
1550,	1.893749,	1.190719,	68,	7
1551,	1.932838,	1.134193,	70,	11
1552,	1.967785,	1.076513,	73,	15
1553,	1.998451,	1.017867,	76,	19
1554,	2.024746,	.9586911,	78,	23
1555,	2.046539,	.8982276,	81,	28
1556,	2.063749,	.8373669,	83,	32
1557,	2.076264,	.7760156,	86,	37
1558,	2.084008,	.7151431,	88,	42
1559,	2.086876,	.6536874,	91,	48
1560,	2.084839,	.593449,	93,	54
1561,	2.077807,	.5341077,	96,	61
1562,	2.065718,	.4768214,	98,	69
1563,	2.048553,	.4224275,	101,	78
1564,	2.026243,	.3742941,	103,	89
1565,	1.998788,	.3333742,	105,	101
1566,	1.966181,	.3038992,	108,	117
1567,	1.928398,	.2900636,	110,	134
1568,	1.885478,	.293417,	113,	151
1569,	1.837418,	.3146542,	115,	168
1570,	1.784281,	.3516542,	117,	182
1571,	1.726086,	.3976138,	120,	194
1572,	1.662951,	.4506635,	122,	204
1573,	1.594933,	.5093579,	124,	213
1574,	1.522122,	.5705911,	126,	221
1575,	1.444663,	.6345526,	128,	227
1576,	1.362668,	.6996563,	130,	233
1577,	1.27631,	.765099,	132,	239
1578,	1.185804,	.8312709,	134,	244
1579,	1.091332,	.897792,	136,	249
1580,	.9932045,	.9637781,	137,	254
1581,	.8917197,	1.029142,	138,	259
1582,	.7873618,	1.093814,	139,	263

1583,	.6806929,	1.157574,	139,	268
1584,	.5727612,	1.220564,	138,	272
1585,	.4652455,	1.282438,	136,	276
1586,	.3616977,	1.34277,	130,	280
1587,	.2707503,	1.401617,	117,	284
1588,	.2139488,	1.459294,	93,	288
1589,	.2234155,	1.515031,	62,	292
1590,	.2951956,	1.569159,	40,	296
1591,	.3982406,	1.621116,	30,	300
1592,	.5148805,	1.671455,	25,	304
1593,	.6381363,	1.719637,	22,	308
1594,	.7649418,	1.765507,	22,	312
1595,	.8937104,	1.809347,	22,	316
1596,	1.023456,	1.850987,	23,	320
1597,	1.153502,	1.890055,	24,	323
1598,	1.283323,	1.926808,	26,	327
1599,	1.412404,	1.961079,	28,	331
1600,	1.540381,	1.992801,	30,	335
1601,	1.666813,	2.022092,	32,	339
1602,	1.791356,	2.048581,	34,	343
1603,	1.913653,	2.072564,	36,	347
1604,	2.033351,	2.093848,	38,	351
1605,	2.150155,	2.112422,	40,	354
1606,	2.26372,	2.128174,	43,	358
1607,	2.373734,	2.141349,	45,	2
1608,	2.479904,	2.151812,	48,	6
1609,	2.581938,	2.159513,	50,	10
1610,	2.679572,	2.164481,	52,	14
1611,	2.772541,	2.166826,	55,	18
1612,	2.860589,	2.166375,	57,	22
1613,	2.943479,	2.163398,	60,	26
1614,	3.020989,	2.157703,	62,	30
1615,	3.092904,	2.149541,	65,	34
1616,	3.15905,	2.138702,	67,	38
1617,	3.219231,	2.125511,	70,	42
1618,	3.273297,	2.109647,	72,	46
1619,	3.321112,	2.091702,	75,	50
1620,	3.36254,	2.071339,	77,	54
1621,	3.397488,	2.048676,	80,	58
1622,	3.425863,	2.023926,	82,	62
1623,	3.447597,	1.997011,	85,	67
1624,	3.462641,	1.968239,	87,	71
1625,	3.470973,	1.937325,	89,	75
1626,	3.472585,	1.90478,	92,	79
1627,	3.467496,	1.870519,	94,	83
1628,	3.455722,	1.834552,	97,	88
1629,	3.437328,	1.797102,	99,	92
1630,	3.412385,	1.758075,	101,	96
1631,	3.380991,	1.718159,	104,	101
1632,	3.343262,	1.676826,	106,	105
1633,	3.299337,	1.634445,	108,	110
1634,	3.249362,	1.591301,	110,	114
1635,	3.193525,	1.547078,	112,	119
1636,	3.131992,	1.502332,	115,	124
1637,	3.065039,	1.457149,	117,	129
1638,	2.992872,	1.411209,	119,	133
1639,	2.915761,	1.365583,	121,	138

1640,	2.833996,	1.319562,	123,	143
1641,	2.747857,	1.273718,	124,	148
1642,	2.657702,	1.227911,	126,	154
1643,	2.563883,	1.182644,	128,	159
1644,	2.466814,	1.137808,	129,	164
1645,	2.366904,	1.093814,	131,	170
1646,	2.264587,	1.05077,	132,	175
1647,	2.160412,	1.008989,	133,	181
1648,	2.054882,	.9682327,	134,	187
1649,	1.948695,	.9292675,	135,	193
1650,	1.842498,	.8914513,	135,	200
1651,	1.737128,	.8560798,	135,	206
1652,	1.633483,	.8229934,	135,	213
1653,	1.53262,	.7919847,	135,	220
1654,	1.435794,	.7640756,	133,	227
1655,	1.344467,	.7385587,	132,	234
1656,	1.26034,	.7162364,	130,	242
1657,	1.185287,	.6971353,	127,	249
1658,	1.121432,	.6815262,	123,	257
1659,	1.07087,	.6690691,	119,	265
1660,	1.035505,	.6602388,	115,	273
1661,	1.016765,	.6548835,	110,	281
1662,	1.015204,	.6524892,	105,	289
1663,	1.030459,	.6530887,	100,	297
1664,	1.061205,	.6569713,	95,	304
1665,	1.105506,	.6634902,	91,	312
1666,	1.161079,	.6722777,	88,	319
1667,	1.22561,	.6826735,	85,	326
1668,	1.296953,	.6954495,	83,	333
1669,	1.373269,	.7099265,	82,	340
1670,	1.452936,	.7254636,	80,	347
1671,	1.534647,	.7419941,	80,	353
1672,	1.617352,	.7594531,	80,	359
1673,	1.700081,	.7775266,	80,	5
1674,	1.782152,	.7959269,	80,	11
1675,	1.862921,	.8146318,	80,	17
1676,	1.941899,	.8336208,	81,	22
1677,	2.018704,	.8528748,	82,	28
1678,	2.092929,	.8717035,	83,	33
1679,	2.164311,	.8905731,	84,	38
1680,	2.232595,	.9094811,	85,	43
1681,	2.297591,	.927793,	86,	48
1682,	2.359113,	.9457501,	88,	53
1683,	2.417051,	.9635752,	89,	58
1684,	2.471268,	.9806775,	90,	63
1685,	2.521673,	.9978785,	92,	67
1686,	2.568208,	1.014402,	93,	72
1687,	2.610797,	1.030661,	95,	76
1688,	2.649412,	1.046106,	96,	81
1689,	2.68403,	1.061142,	98,	85
1690,	2.71463,	1.075967,	100,	89
1691,	2.741199,	1.090233,	101,	94
1692,	2.763741,	1.103959,	103,	98
1693,	2.78228,	1.117342,	105,	102
1694,	2.796824,	1.13022,	106,	106
1695,	2.807379,	1.142439,	108,	111
1696,	2.813993,	1.154529,	110,	115

1697,	2.816687,	1.166159,	111,	119
1698,	2.81549,	1.177175,	113,	123
1699,	2.810444,	1.187759,	115,	127
1700,	2.801584,	1.198087,	116,	131
1701,	2.788936,	1.208002,	118,	135
1702,	2.772568,	1.217355,	120,	139
1703,	2.752491,	1.226158,	122,	143
1704,	2.728767,	1.23474,	123,	146
1705,	2.70142,	1.242634,	125,	150
1706,	2.670521,	1.250165,	127,	154
1707,	2.636075,	1.257183,	128,	158
1708,	2.598155,	1.263854,	130,	162
1709,	2.556814,	1.270182,	132,	166
1710,	2.512078,	1.275865,	133,	170
1711,	2.464022,	1.280913,	135,	173
1712,	2.412668,	1.285636,	137,	177
1713,	2.358098,	1.289585,	138,	181
1714,	2.30038,	1.293068,	140,	185
1715,	2.239561,	1.296088,	141,	189
1716,	2.175748,	1.298199,	143,	193
1717,	2.108982,	1.299704,	144,	197
1718,	2.039399,	1.300757,	146,	200
1719,	1.967067,	1.300907,	147,	204
1720,	1.892121,	1.300456,	149,	208
1721,	1.814702,	1.298952,	150,	212
1722,	1.734943,	1.296993,	151,	216
1723,	1.653037,	1.294126,	152,	220
1724,	1.569164,	1.290191,	153,	224
1725,	1.483579,	1.285788,	154,	228
1726,	1.396569,	1.280302,	155,	232
1727,	1.308453,	1.273718,	155,	236
1728,	1.219678,	1.266173,	155,	240
1729,	1.13073,	1.25765,	155,	244
1730,	1.042303,	1.248286,	155,	248
1731,	.9552354,	1.237746,	154,	252
1732,	.8706766,	1.226158,	152,	256
1733,	.7901797,	1.213494,	149,	260
1734,	.7158215,	1.199881,	145,	264
1735,	.6503887,	1.185452,	140,	268
1736,	.5974562,	1.169675,	134,	273
1737,	.5610484,	1.152665,	126,	277
1738,	.544836,	1.135054,	117,	281
1739,	.550788,	1.115941,	107,	286
1740,	.5781874,	1.096136,	99,	290
1741,	.6240656,	1.07524,	91,	295
1742,	.6843652,	1.053372,	86,	299
1743,	.7552506,	1.030661,	81,	304
1744,	.8335031,	1.007049,	78,	309
1745,	.9166319,	.982869,	76,	314
1746,	1.002823,	.9580787,	75,	319
1747,	1.090646,	.9326292,	75,	324
1748,	1.179056,	.9064651,	75,	329
1749,	1.26719,	.8801894,	75,	335
1750,	1.35435,	.8542499,	76,	340
1751,	1.439985,	.8279698,	76,	346
1752,	1.523582,	.8018038,	78,	352
1753,	1.604725,	.7765196,	79,	358

1754,	1.683017,	.7522061,	80,	4
1755,	1.758138,	.7286924,	82,	11
1756,	1.829747,	.7063351,	84,	18
1757,	1.897575,	.6861036,	85,	25
1758,	1.961342,	.6678984,	87,	32
1759,	2.020817,	.6521893,	89,	40
1760,	2.075772,	.6391605,	91,	48
1761,	2.125993,	.6296003,	93,	56
1762,	2.171303,	.623982,	95,	64
1763,	2.211517,	.6217834,	97,	73
1764,	2.246489,	.6233546,	99,	81
1765,	2.276086,	.6289785,	102,	89
1766,	2.300184,	.638548,	104,	98
1767,	2.318685,	.6518893,	106,	106
1768,	2.331491,	.6687766,	108,	114
1769,	2.338555,	.689233,	111,	122
1770,	2.339817,	.7124023,	113,	129
1771,	2.335253,	.7377636,	115,	136
1772,	2.324834,	.7656103,	118,	143
1773,	2.308603,	.7954351,	120,	150
1774,	2.28656,	.826551,	122,	156
1775,	2.258753,	.8588174,	125,	163
1776,	2.225247,	.8925477,	127,	169
1777,	2.1861,	.926316,	129,	175
1778,	2.141428,	.9607291,	132,	180
1779,	2.09136,	.9947374,	134,	186
1780,	2.035998,	1.029142,	136,	191
1781,	1.975516,	1.062983,	139,	196
1782,	1.910055,	1.096315,	141,	201
1783,	1.839847,	1.128835,	143,	206
1784,	1.765011,	1.16078,	146,	211
1785,	1.685847,	1.19154,	148,	216
1786,	1.602552,	1.221204,	150,	221
1787,	1.515353,	1.249852,	152,	226
1788,	1.424559,	1.277091,	154,	230
1789,	1.330412,	1.30286,	156,	235
1790,	1.233238,	1.326803,	158,	239
1791,	1.133391,	1.349451,	160,	244
1792,	1.031183,	1.370157,	161,	248
1793,	.9270657,	1.389006,	163,	252
1794,	.8214772,	1.406074,	164,	257
1795,	.71504,	1.421149,	164,	261
1796,	.6085071,	1.434432,	164,	265
1797,	.5031633,	1.445564,	162,	269
1798,	.4011411,	1.454598,	158,	274
1799,	.3069431,	1.461704,	150,	278
1800,	.2313545,	1.466511,	134,	282
1801,	.1974621,	1.469307,	107,	286
1802,	.2246928,	1.469707,	79,	290
1803,	.2959548,	1.468243,	62,	294
1804,	.3867783,	1.464376,	54,	298
1805,	.4853392,	1.45849,	49,	302
1806,	.5867613,	1.450425,	48,	306
1807,	.6887153,	1.440144,	47,	310
1808,	.7899849,	1.427874,	47,	315
1809,	.8897285,	1.413701,	48,	319
1810,	.9874071,	1.397286,	49,	323

1811,	1.082595,	1.379118,	51,	327
1812,	1.174914,	1.358981,	52,	331
1813,	1.264088,	1.336786,	54,	335
1814,	1.349824,	1.313026,	56,	338
1815,	1.43189,	1.28746,	58,	342
1816,	1.510067,	1.25998,	60,	346
1817,	1.584164,	1.230934,	62,	350
1818,	1.654019,	1.200532,	64,	354
1819,	1.71948,	1.168839,	66,	359
1820,	1.780417,	1.135399,	68,	3
1821,	1.836709,	1.100766,	70,	7
1822,	1.888262,	1.065005,	72,	11
1823,	1.93501,	1.028191,	74,	15
1824,	1.976902,	.9904022,	76,	19
1825,	2.013877,	.9517289,	78,	23
1826,	2.045927,	.9118439,	80,	27
1827,	2.073055,	.8712546,	82,	31
1828,	2.095272,	.8303291,	84,	36
1829,	2.112609,	.7890151,	86,	40
1830,	2.125112,	.7472485,	88,	44
1831,	2.13286,	.7052264,	90,	49
1832,	2.135941,	.6631953,	92,	54
1833,	2.134439,	.6208388,	94,	58
1834,	2.128493,	.5790996,	96,	63
1835,	2.118218,	.5373944,	97,	69
1836,	2.103777,	.4965204,	99,	74
1837,	2.085329,	.4562725,	101,	80
1838,	2.063053,	.4168324,	102,	86
1839,	2.037154,	.3789696,	104,	93
1840,	2.007845,	.3432067,	105,	100
1841,	1.975345,	.309007,	107,	108
1842,	1.939882,	.27836,	108,	118
1843,	1.901731,	.2510082,	109,	128
1844,	1.861119,	.2289959,	110,	140
1845,	1.818394,	.2139777,	111,	154
1846,	1.773817,	.2055832,	112,	168
1847,	1.727698,	.2055832,	113,	182
1848,	1.680396,	.2130613,	114,	196
1849,	1.632214,	.2255522,	114,	209
1850,	1.583561,	.2438916,	114,	220
1851,	1.534804,	.2661423,	115,	230
1852,	1.486384,	.2907373,	115,	239
1853,	1.438701,	.3165142,	114,	246
1854,	1.392205,	.3432067,	114,	253
1855,	1.347386,	.3700886,	113,	259
1856,	1.304694,	.3971214,	113,	265
1857,	1.264699,	.4233529,	112,	270
1858,	1.227856,	.4497944,	110,	275
1859,	1.194707,	.4755888,	109,	280
1860,	1.165726,	.5012266,	107,	284
1861,	1.141353,	.526359,	105,	289
1862,	1.122004,	.5499891,	103,	293
1863,	1.108004,	.5733276,	101,	297
1864,	1.099577,	.5957522,	98,	301
1865,	1.096835,	.6176795,	96,	304
1866,	1.099803,	.6388543,	94,	308
1867,	1.108363,	.6590525,	91,	312

1868,	1.122297,	.6783612,	89,	315
1869,	1.1413,	.6974158,	87,	319
1870,	1.165023,	.7154166,	85,	322
1871,	1.193045,	.7327082,	83,	326
1872,	1.224926,	.7493399,	82,	329
1873,	1.260274,	.7653547,	80,	332
1874,	1.298609,	.7807905,	79,	335
1875,	1.339558,	.7954351,	78,	339
1876,	1.382714,	.8095733,	77,	342
1877,	1.427745,	.823231,	77,	345
1878,	1.474332,	.835964,	76,	348
1879,	1.522179,	.8480446,	76,	352
1880,	1.570994,	.859728,	76,	355
1881,	1.62054,	.87103,	76,	358
1882,	1.670616,	.8817436,	76,	1
1883,	1.72097,	.89189,	76,	4
1884,	1.771438,	.9017053,	76,	8
1885,	1.821862,	.9105559,	76,	11
1886,	1.87201,	.9188957,	77,	14
1887,	1.921754,	.9269492,	77,	17
1888,	1.970916,	.9343057,	78,	21
1889,	2.019341,	.941189,	79,	24
1890,	2.06689,	.9471965,	79,	27
1891,	2.113395,	.9529612,	80,	30
1892,	2.158702,	.9580787,	81,	34
1893,	2.202657,	.9627629,	82,	37
1894,	2.245108,	.9666153,	83,	41
1895,	2.285901,	.9698475,	84,	44
1896,	2.324889,	.9724657,	85,	47
1897,	2.36191,	.974475,	86,	51
1898,	2.396815,	.9756786,	88,	55
1899,	2.429446,	.9764801,	89,	58
1900,	2.459661,	.9762798,	90,	62
1901,	2.487317,	.9756786,	91,	65
1902,	2.512243,	.9742742,	93,	69
1903,	2.534328,	.9720634,	94,	73
1904,	2.553418,	.9692423,	95,	76
1905,	2.569408,	.9656029,	97,	80
1906,	2.582154,	.9611362,	98,	84
1907,	2.591556,	.956035,	100,	88
1908,	2.5975,	.9500833,	101,	92
1909,	2.599881,	.9432648,	102,	96
1910,	2.598654,	.935979,	104,	100
1911,	2.593721,	.927793,	105,	104
1912,	2.585041,	.9188957,	107,	108
1913,	2.572553,	.9090509,	108,	112
1914,	2.556268,	.898663,	110,	116
1915,	2.536125,	.8872724,	111,	120
1916,	2.512177,	.8752865,	113,	125
1917,	2.484451,	.8626807,	114,	129
1918,	2.452974,	.8491972,	115,	133
1919,	2.417859,	.8354959,	117,	138
1920,	2.379177,	.820613,	118,	142
1921,	2.337035,	.8054551,	119,	147
1922,	2.291628,	.7895108,	120,	152
1923,	2.243103,	.7727315,	122,	156
1924,	2.191708,	.7555795,	123,	161

1925,	2.137653,	.7377636,	124,	166
1926,	2.081259,	.7195066,	124,	171
1927,	2.022834,	.701053,	125,	176
1928,	1.962759,	.6818132,	126,	181
1929,	1.901484,	.6620143,	126,	186
1930,	1.839457,	.6419094,	127,	191
1931,	1.777249,	.622098,	127,	196
1932,	1.715463,	.601309,	127,	202
1933,	1.654759,	.5804495,	126,	207
1934,	1.595932,	.5595113,	126,	213
1935,	1.539786,	.538122,	125,	219
1936,	1.48722,	.5177394,	124,	225
1937,	1.439174,	.4961262,	123,	231
1938,	1.396627,	.4755888,	121,	238
1939,	1.360541,	.4549843,	119,	245
1940,	1.331806,	.4352031,	117,	252
1941,	1.311203,	.4158926,	115,	259
1942,	1.299316,	.3976138,	112,	267
1943,	1.296478,	.3805153,	110,	274
1944,	1.302756,	.3647634,	107,	283
1945,	1.317942,	.3505396,	105,	292
1946,	1.341514,	.3386152,	103,	301
1947,	1.372772,	.3292401,	101,	310
1948,	1.410843,	.3226368,	99,	320
1949,	1.454768,	.3189774,	97,	330
1950,	1.503514,	.3183634,	96,	341
1951,	1.55611,	.3208123,	95,	351
1952,	1.611574,	.3274524,	95,	1
1953,	1.66899,	.3368773,	95,	11
1954,	1.727553,	.349981,	95,	20
1955,	1.786455,	.3652994,	95,	30
1956,	1.845044,	.3825666,	95,	38
1957,	1.90267,	.4025045,	96,	47
1958,	1.958741,	.4242762,	96,	55
1959,	2.01279,	.4476142,	97,	62
1960,	2.064328,	.4718718,	98,	70
1961,	2.112972,	.4973078,	100,	76
1962,	2.158343,	.5237507,	101,	83
1963,	2.200113,	.5510553,	102,	90
1964,	2.238017,	.5787617,	104,	96
1965,	2.271777,	.6064924,	105,	102
1966,	2.301194,	.6345526,	107,	108
1967,	2.326071,	.6629003,	108,	113
1968,	2.346257,	.6912171,	110,	119
1969,	2.361615,	.7192346,	112,	124
1970,	2.372048,	.7469867,	113,	129
1971,	2.377476,	.7747541,	115,	134
1972,	2.377844,	.8018038,	117,	140
1973,	2.373133,	.8284422,	119,	145
1974,	2.36333,	.8542499,	121,	149
1975,	2.348472,	.8797448,	122,	154
1976,	2.328584,	.9047371,	124,	159
1977,	2.303751,	.9284253,	126,	164
1978,	2.274043,	.9515232,	128,	168
1979,	2.239578,	.9736719,	130,	173
1980,	2.200478,	.9947374,	132,	177
1981,	2.156892,	1.014595,	133,	182

1982,	2.109009,	1.033693,	135,	186
1983,	2.057002,	1.051328,	137,	191
1984,	2.0011,	1.067756,	138,	195
1985,	1.941516,	1.083033,	140,	199
1986,	1.878504,	1.09685,	142,	203
1987,	1.812356,	1.109437,	143,	208
1988,	1.743343,	1.120662,	145,	212
1989,	1.671815,	1.130393,	146,	216
1990,	1.598082,	1.138495,	147,	220
1991,	1.522569,	1.145004,	148,	224
1992,	1.44564,	1.150287,	149,	228
1993,	1.367772,	1.153682,	150,	232
1994,	1.289476,	1.155714,	150,	236
1995,	1.211285,	1.156053,	150,	240
1996,	1.133871,	1.154868,	150,	243
1997,	1.057923,	1.152156,	149,	247
1998,	.9843256,	1.147734,	148,	251
1999,	.91407,	1.141583,	147,	255
2000,	.8482994,	1.133848,	145,	258
2001,	.7883996,	1.124495,	142,	262
2002,	.7358626,	1.113836,	138,	266
2003,	.6923495,	1.101476,	134,	269
2004,	.6594203,	1.087538,	129,	273
2005,	.6383824,	1.072143,	123,	276
2006,	.6298906,	1.055413,	117,	280
2007,	.6338179,	1.037281,	111,	283
2008,	.6491969,	1.017483,	106,	286
2009,	.6744325,	.9965055,	101,	290
2010,	.7076201,	.9742742,	97,	293
2011,	.7468112,	.9509064,	94,	296
2012,	.7902687,	.9265271,	91,	299
2013,	.8364233,	.9008371,	89,	302
2014,	.884046,	.8741685,	88,	305
2015,	.9320934,	.8466595,	87,	308
2016,	.979779,	.8184648,	86,	310
2017,	1.02638,	.7895108,	86,	313
2018,	1.071394,	.7599682,	86,	316
2019,	1.114423,	.7297654,	86,	318
2020,	1.155103,	.6993766,	86,	320
2021,	1.193198,	.6684841,	87,	322
2022,	1.228467,	.6376283,	88,	324
2023,	1.260761,	.6068149,	88,	326
2024,	1.289972,	.5763906,	89,	327
2025,	1.316005,	.5460621,	90,	329
2026,	1.33883,	.5162255,	91,	330
2027,	1.358411,	.4873731,	92,	330
2028,	1.374787,	.4596902,	93,	330
2029,	1.387934,	.4334011,	94,	330
2030,	1.397949,	.4092533,	95,	330
2031,	1.404894,	.3866364,	96,	329
2032,	1.408849,	.3669027,	96,	327
2033,	1.409939,	.349981,	97,	325
2034,	1.408279,	.3362959,	98,	322
2035,	1.40401,	.3262552,	99,	319
2036,	1.397291,	.3202018,	100,	316
2037,	1.388287,	.3183634,	100,	312
2038,	1.377176,	.3202018,	101,	309

2039,	1.364149,	.3262552,	102,	306
2040,	1.349396,	.3351303,	102,	303
2041,	1.333144,	.3471744,	102,	301
2042,	1.315603,	.3620715,	103,	299
2043,	1.29698,	.378453,	103,	297
2044,	1.27753,	.3966284,	103,	296
2045,	1.257469,	.4163628,	103,	296
2046,	1.237032,	.4369977,	103,	295
2047,	1.216484,	.4579845,	103,	295
2048,	1.196037,	.479277,	102,	296
2049,	1.175966,	.5020067,	102,	296
2050,	1.156482,	.5233769,	101,	297
2051,	1.137829,	.5453451,	101,	298
2052,	1.12025,	.5674968,	100,	299
2053,	1.103973,	.5888156,	99,	300
2054,	1.089197,	.6103511,	98,	301
2055,	1.076139,	.6317717,	97,	303
2056,	1.065,	.6527891,	95,	304
2057,	1.055921,	.6737312,	94,	306
2058,	1.049125,	.6940416,	92,	307
2059,	1.044704,	.7145957,	91,	309
2060,	1.042807,	.7345748,	89,	311
2061,	1.043507,	.7542838,	88,	312
2062,	1.046896,	.7739963,	86,	314
2063,	1.053038,	.7932187,	84,	316
2064,	1.061961,	.8124677,	83,	318
2065,	1.07369,	.8315062,	81,	320
2066,	1.088217,	.8503482,	79,	321
2067,	1.105516,	.8690065,	78,	323
2068,	1.125556,	.8874928,	76,	325
2069,	1.148302,	.9060335,	75,	327
2070,	1.173672,	.9244135,	74,	329
2071,	1.201615,	.9422275,	73,	331
2072,	1.232036,	.9605256,	71,	333
2073,	1.264846,	.9782812,	70,	335
2074,	1.299964,	.9959165,	70,	337
2075,	1.337259,	1.013245,	69,	340
2076,	1.37664,	1.030471,	68,	342
2077,	1.417946,	1.047601,	68,	344
2078,	1.461069,	1.064454,	67,	346
2079,	1.505885,	1.080683,	67,	348
2080,	1.552212,	1.096493,	67,	351
2081,	1.599938,	1.112254,	66,	353
2082,	1.648826,	1.127274,	66,	356
2083,	1.698759,	1.142097,	67,	358
2084,	1.749522,	1.156053,	67,	0
2085,	1.800943,	1.169173,	67,	3
2086,	1.852826,	1.181982,	67,	5
2087,	1.904969,	1.193671,	68,	8
2088,	1.957148,	1.20476,	68,	11
2089,	2.009141,	1.214943,	69,	13
2090,	2.060738,	1.223924,	70,	16
2091,	2.111723,	1.232045,	71,	19
2092,	2.161869,	1.239009,	71,	21
2093,	2.21096,	1.244992,	72,	24
2094,	2.258738,	1.249382,	73,	27
2095,	2.305008,	1.252821,	74,	30

2096,	2.349518,	1.254848,	75,	32
2097,	2.392072,	1.255316,	77,	35
2098,	2.432451,	1.254537,	78,	38
2099,	2.470431,	1.25204,	79,	41
2100,	2.505824,	1.247973,	80,	44
2101,	2.538419,	1.242476,	81,	47
2102,	2.56805,	1.235216,	83,	50
2103,	2.594531,	1.226318,	84,	53
2104,	2.617702,	1.215748,	85,	56
2105,	2.637405,	1.203136,	87,	59
2106,	2.65352,	1.189075,	88,	62
2107,	2.665916,	1.173181,	89,	65
2108,	2.674495,	1.155545,	91,	68
2109,	2.679174,	1.136088,	92,	71
2110,	2.67988,	1.114538,	94,	75
2111,	2.676579,	1.091488,	95,	78
2112,	2.669239,	1.066657,	96,	81
2113,	2.657878,	1.03973,	98,	84
2114,	2.642503,	1.011312,	99,	87
2115,	2.623198,	.9810763,	100,	90
2116,	2.600019,	.9492594,	102,	93
2117,	2.573061,	.915697,	103,	96
2118,	2.54252,	.8801894,	104,	99
2119,	2.508534,	.8429548,	105,	102
2120,	2.471344,	.8044831,	106,	105
2121,	2.431194,	.7648433,	107,	108
2122,	2.388371,	.7235735,	108,	111
2123,	2.343219,	.6806645,	108,	114
2124,	2.296131,	.6367071,	109,	117
2125,	2.247556,	.5921289,	110,	119
2126,	2.197961,	.5457036,	110,	121
2127,	2.147927,	.498879,	110,	124
2128,	2.09803,	.4510975,	110,	125
2129,	2.048906,	.4025045,	110,	127
2130,	2.001331,	.3544253,	110,	127
2131,	1.956021,	.3064638,	109,	127
2132,	1.913805,	.2594412,	109,	125
2133,	1.875491,	.2148902,	108,	121
2134,	1.841901,	.1758287,	107,	114
2135,	1.813853,	.1467095,	106,	100
2136,	1.792088,	.1370558,	104,	82
2137,	1.777287,	.1480372,	103,	63
2138,	1.769949,	.1769381,	101,	49
2139,	1.77046,	.218502,	100,	41
2140,	1.779001,	.265406,	98,	37
2141,	1.795565,	.3146542,	97,	36
2142,	1.819946,	.3658347,	95,	35
2143,	1.851771,	.4191728,	94,	36
2144,	1.890511,	.4722863,	93,	38
2145,	1.935517,	.5259872,	92,	39
2146,	1.986093,	.5794374,	91,	42
2147,	2.041409,	.6323907,	90,	44
2148,	2.100695,	.6849622,	90,	47
2149,	2.163146,	.7372331,	90,	50
2150,	2.227979,	.7887671,	90,	53
2151,	2.29443,	.8390005,	90,	56
2152,	2.361799,	.8890343,	90,	59

2153,	2.429416,	.9376493,	91,	62
2154,	2.496623,	.984857,	91,	65
2155,	2.56286,	1.03123,	92,	69
2156,	2.627586,	1.075967,	93,	72
2157,	2.6903,	1.119265,	94,	75
2158,	2.750589,	1.161285,	95,	79
2159,	2.80796,	1.201672,	96,	82
2160,	2.862092,	1.240429,	98,	86
2161,	2.91261,	1.27755,	99,	89
2162,	2.959243,	1.312877,	100,	93
2163,	3.001657,	1.346115,	102,	96
2164,	3.039681,	1.377841,	103,	100
2165,	3.073057,	1.407464,	105,	103
2166,	3.101596,	1.435113,	107,	107
2167,	3.125171,	1.460767,	108,	110
2168,	3.143619,	1.484266,	110,	114
2169,	3.156868,	1.505712,	112,	118
2170,	3.164841,	1.525062,	113,	121
2171,	3.167464,	1.54227,	115,	125
2172,	3.164743,	1.557405,	117,	128
2173,	3.156649,	1.57028,	119,	132
2174,	3.143235,	1.580825,	120,	135
2175,	3.124533,	1.589334,	122,	139
2176,	3.100614,	1.595595,	124,	142
2177,	3.071576,	1.599754,	126,	146
2178,	3.037522,	1.601464,	127,	150
2179,	2.998605,	1.601098,	129,	153
2180,	2.954982,	1.598777,	131,	157
2181,	2.906822,	1.594124,	133,	160
2182,	2.854335,	1.587242,	134,	164
2183,	2.797733,	1.578474,	136,	167
2184,	2.737262,	1.567414,	137,	171
2185,	2.673183,	1.554515,	139,	174
2186,	2.605769,	1.539479,	140,	178
2187,	2.535334,	1.522496,	142,	181
2188,	2.462185,	1.503633,	143,	184
2189,	2.386669,	1.482949,	144,	188
2190,	2.309165,	1.460499,	145,	191
2191,	2.230042,	1.436066,	146,	195
2192,	2.149732,	1.410239,	147,	198
2193,	2.068661,	1.382516,	148,	201
2194,	1.987305,	1.353502,	149,	205
2195,	1.906179,	1.322818,	149,	208
2196,	1.825795,	1.290797,	149,	211
2197,	1.746756,	1.257183,	149,	214
2198,	1.669637,	1.222485,	149,	218
2199,	1.595131,	1.186441,	149,	221
2200,	1.523897,	1.149436,	148,	224
2201,	1.456675,	1.111375,	147,	227
2202,	1.394225,	1.072143,	146,	230
2203,	1.33729,	1.032178,	144,	233
2204,	1.286646,	.9911918,	143,	236
2205,	1.242929,	.9496714,	141,	239
2206,	1.206756,	.9075435,	138,	241
2207,	1.178583,	.8644928,	136,	244
2208,	1.158618,	.821566,	133,	247
2209,	1.146918,	.7780297,	130,	249

2210,	1.14324,	.7343085,	128,	251
2211,	1.147156,	.6906508,	125,	254
2212,	1.158004,	.6464648,	123,	256
2213,	1.174992,	.6029336,	121,	257
2214,	1.197255,	.5591615,	119,	259
2215,	1.223869,	.5162255,	117,	260
2216,	1.253932,	.4743531,	116,	261
2217,	1.286613,	.4329494,	114,	261
2218,	1.321105,	.3931601,	113,	261
2219,	1.35669,	.3549769,	113,	260
2220,	1.392763,	.3195902,	112,	258
2221,	1.42874,	.2873527,	112,	255
2222,	1.464176,	.2601943,	112,	250
2223,	1.498624,	.2382096,	112,	244
2224,	1.531775,	.2229345,	113,	237
2225,	1.563309,	.2176047,	113,	228
2226,	1.592972,	.2211722,	114,	219
2227,	1.620579,	.2332291,	114,	212
2228,	1.645934,	.2525624,	115,	205
2229,	1.668932,	.2769506,	116,	201
2230,	1.689435,	.3058247,	117,	197
2231,	1.70735,	.3362959,	118,	195
2232,	1.722631,	.3695595,	119,	194
2233,	1.735206,	.4039601,	120,	193
2234,	1.745057,	.438785,	121,	193
2235,	1.752156,	.4743531,	122,	194
2236,	1.756451,	.5101255,	123,	195
2237,	1.757987,	.5460621,	124,	196
2238,	1.756729,	.5814597,	126,	197
2239,	1.752712,	.6173627,	127,	199
2240,	1.74591,	.6530887,	128,	200
2241,	1.736381,	.6880968,	129,	202
2242,	1.724082,	.7230326,	131,	204
2243,	1.709055,	.7579061,	132,	206
2244,	1.691314,	.7922317,	134,	208
2245,	1.670859,	.8263143,	135,	210
2246,	1.647731,	.8601829,	136,	212
2247,	1.621911,	.8938617,	138,	215
2248,	1.593428,	.9273712,	139,	217
2249,	1.562282,	.9599144,	141,	219
2250,	1.528473,	.9925722,	142,	222
2251,	1.492024,	1.024952,	144,	224
2252,	1.452924,	1.056709,	145,	227
2253,	1.41119,	1.088258,	147,	229
2254,	1.366831,	1.119265,	148,	232
2255,	1.319847,	1.149947,	150,	234
2256,	1.270247,	1.180161,	151,	237
2257,	1.218056,	1.209943,	153,	239
2258,	1.163262,	1.239482,	154,	242
2259,	1.105899,	1.268487,	156,	245
2260,	1.045986,	1.296842,	157,	247
2261,	.9835691,	1.32459,	159,	250
2262,	.9186683,	1.351912,	160,	253
2263,	.8513148,	1.378408,	162,	256
2264,	.7815958,	1.404265,	163,	258
2265,	.7095296,	1.429243,	165,	261
2266,	.6352406,	1.453791,	166,	264

2267,	.5588185,	1.477534,	167,	267
2268,	.4803575,	1.500249,	168,	270
2269,	.4000805,	1.521854,	168,	273
2270,	.3182337,	1.54265,	168,	276
2271,	.2354059,	1.562418,	166,	279
2272,	.1531967,	1.580949,	160,	282
2273,	7.969856E-02,		1.598287,	137, 285
2274,	6.994834E-02,		1.614471,	65, 288
2275,	.1408697,	1.629294,	34,	291
2276,	.2276832,	1.642794,	26,	294
2277,	.3184819,	1.654886,	24,	297
2278,	.4110621,	1.665598,	23,	300
2279,	.5047093,	1.674726,	24,	304
2280,	.5990244,	1.682295,	25,	307
2281,	.6936573,	1.688094,	26,	310
2282,	.788374,	1.692257,	28,	313
2283,	.8828933,	1.694796,	30,	317
2284,	.9769822,	1.695487,	32,	320
2285,	1.070356,	1.694334,	33,	323
2286,	1.162786,	1.691448,	35,	327
2287,	1.25404,	1.686472,	37,	330
2288,	1.343832,	1.679737,	39,	334
2289,	1.431944,	1.670987,	41,	337
2290,	1.518067,	1.660192,	44,	341
2291,	1.601968,	1.647309,	46,	344
2292,	1.68342,	1.63265,	48,	348
2293,	1.762129,	1.615923,	50,	351
2294,	1.837876,	1.597064,	52,	355
2295,	1.910407,	1.576244,	54,	358
2296,	1.979468,	1.553258,	57,	2
2297,	2.04483,	1.528136,	59,	6
2298,	2.106267,	1.501291,	61,	9
2299,	2.163571,	1.472364,	63,	13
2300,	2.216515,	1.441366,	66,	17
2301,	2.264912,	1.408436,	68,	21
2302,	2.308556,	1.373577,	70,	25
2303,	2.34729,	1.336786,	72,	28
2304,	2.38094,	1.298349,	75,	32
2305,	2.409369,	1.257961,	77,	36
2306,	2.432427,	1.215748,	79,	40
2307,	2.450008,	1.172013,	81,	45
2308,	2.462011,	1.126407,	84,	49
2309,	2.46833,	1.079415,	86,	53
2310,	2.468939,	1.03104,	88,	57
2311,	2.463774,	.9812757,	90,	62
2312,	2.452816,	.9303194,	92,	66
2313,	2.436061,	.8779642,	94,	71
2314,	2.413541,	.8248928,	96,	76
2315,	2.385296,	.7709574,	98,	81
2316,	2.351408,	.7162364,	100,	86
2317,	2.311959,	.6611272,	102,	91
2318,	2.267089,	.6055239,	104,	97
2319,	2.216961,	.5510553,	106,	104
2320,	2.161783,	.4961262,	107,	111
2321,	2.10178,	.4436628,	109,	119
2322,	2.037232,	.3936574,	110,	128
2323,	1.968454,	.3471744,	112,	139

2324,	1.895851,	.3071016,	113,	151
2325,	1.819836,	.2762432,	114,	166
2326,	1.741016,	.2594412,	115,	184
2327,	1.659969,	.2579284,	115,	202
2328,	1.577484,	.2719602,	115,	220
2329,	1.494459,	.3013129,	115,	235
2330,	1.411947,	.3403443,	115,	249
2331,	1.331359,	.3866364,	114,	260
2332,	1.254241,	.4378923,	112,	269
2333,	1.182582,	.4917691,	110,	277
2334,	1.118634,	.5482076,	107,	285
2335,	1.064952,	.6055239,	103,	291
2336,	1.024268,	.6634902,	99,	298
2337,	.9991562,	.7216785,	94,	303
2338,	.9916344,	.7797877,	89,	309
2339,	1.002728,	.8373669,	83,	314
2340,	1.03232,	.8947366,	78,	319
2341,	1.079147,	.9515232,	74,	324
2342,	1.141186,	1.007243,	70,	328
2343,	1.216038,	1.061879,	67,	333
2344,	1.30129,	1.11559,	64,	337
2345,	1.394712,	1.168169,	62,	342
2346,	1.494331,	1.219602,	61,	346
2347,	1.598498,	1.26972,	61,	351
2348,	1.70579,	1.318376,	60,	355
2349,	1.815018,	1.365296,	60,	359
2350,	1.925174,	1.410932,	61,	3
2351,	2.035423,	1.454866,	61,	7
2352,	2.145,	1.497249,	62,	11
2353,	2.253276,	1.537827,	63,	15
2354,	2.359722,	1.576864,	64,	20
2355,	2.46378,	1.613865,	66,	24
2356,	2.565045,	1.649088,	67,	28
2357,	2.663093,	1.682527,	69,	32
2358,	2.757583,	1.714059,	70,	36
2359,	2.848208,	1.743452,	72,	39
2360,	2.93466,	1.771253,	74,	43
2361,	3.016675,	1.796884,	76,	47
2362,	3.094007,	1.820759,	77,	51
2363,	3.166484,	1.842417,	79,	55
2364,	3.233879,	1.862038,	81,	59
2365,	3.296058,	1.879689,	83,	63
2366,	3.352913,	1.895629,	85,	67
2367,	3.404264,	1.909186,	87,	70
2368,	3.450059,	1.920918,	89,	74
2369,	3.490205,	1.930759,	91,	78
2370,	3.524654,	1.938535,	93,	82
2371,	3.553379,	1.944271,	95,	86
2372,	3.576364,	1.948186,	97,	89
2373,	3.593594,	1.950191,	99,	93
2374,	3.605096,	1.950291,	101,	97
2375,	3.610921,	1.948587,	103,	101
2376,	3.611106,	1.944974,	105,	104
2377,	3.605731,	1.939542,	107,	108
2378,	3.594894,	1.932377,	109,	112
2379,	3.578676,	1.923459,	111,	115
2380,	3.557196,	1.912968,	113,	119

2381,	3.530588,	1.900776,	115,	123
2382,	3.498997,	1.886744,	117,	126
2383,	3.462566,	1.87125,	119,	130
2384,	3.421477,	1.854362,	121,	134
2385,	3.375896,	1.836042,	122,	137
2386,	3.326007,	1.816031,	124,	141
2387,	3.272011,	1.794708,	126,	144
2388,	3.214119,	1.772246,	128,	148
2389,	3.152533,	1.748154,	129,	151
2390,	3.087473,	1.723157,	131,	155
2391,	3.019184,	1.696755,	133,	159
2392,	2.947898,	1.669232,	134,	162
2393,	2.873871,	1.640413,	136,	166
2394,	2.797329,	1.610835,	137,	169
2395,	2.718568,	1.57996,	138,	173
2396,	2.637822,	1.548089,	140,	176
2397,	2.555397,	1.515547,	141,	180
2398,	2.471584,	1.481762,	142,	183
2399,	2.386665,	1.447187,	143,	186
2400,	2.300996,	1.411902,	144,	190
2401,	2.21488,	1.375853,	145,	193
2402,	2.128657,	1.338832,	145,	197
2403,	2.042754,	1.301208,	146,	200
2404,	1.957539,	1.262771,	146,	204
2405,	1.873488,	1.223604,	146,	207
2406,	1.791044,	1.184131,	146,	211
2407,	1.710773,	1.143637,	146,	214
2408,	1.633213,	1.102718,	145,	217
2409,	1.55903,	1.060958,	144,	221
2410,	1.488919,	1.019211,	143,	224
2411,	1.423614,	.9762798,	142,	228
2412,	1.363948,	.9330487,	140,	231
2413,	1.310743,	.8888142,	138,	235
2414,	1.264816,	.8445777,	136,	238
2415,	1.227,	.799605,	133,	242
2416,	1.197967,	.7540244,	130,	246
2417,	1.17826,	.7079949,	127,	249
2418,	1.168166,	.6620143,	124,	253
2419,	1.167744,	.6151404,	121,	257
2420,	1.17672,	.5678415,	118,	261
2421,	1.194618,	.5200017,	115,	265
2422,	1.220716,	.4722863,	112,	270
2423,	1.254155,	.4238148,	110,	275
2424,	1.29396,	.3753382,	108,	280
2425,	1.339199,	.3274524,	106,	286
2426,	1.388912,	.2797623,	105,	292
2427,	1.442194,	.2332291,	104,	301
2428,	1.498247,	.1887108,	103,	311
2429,	1.556292,	.1480372,	103,	326
2430,	1.615698,	.1186939,	102,	349
2431,	1.675817,	.1101433,	102,	19
2432,	1.736115,	.1251143,	103,	48
2433,	1.796122,	.1607121,	103,	68
2434,	1.855365,	.2046293,	104,	82
2435,	1.913489,	.2533359,	104,	92
2436,	1.970094,	.3051842,	105,	100
2437,	2.024879,	.3582688,	106,	107

2438,	2.077518,	.4130602,	107,	113
2439,	2.127708,	.4681252,	109,	118
2440,	2.175225,	.5244972,	110,	122
2441,	2.219783,	.5814597,	112,	127
2442,	2.261188,	.6382415,	113,	131
2443,	2.299196,	.6954495,	115,	135
2444,	2.333605,	.7532457,	116,	139
2445,	2.364243,	.8110219,	118,	143
2446,	2.390913,	.8687814,	120,	147
2447,	2.413479,	.9269492,	122,	151
2448,	2.431744,	.9846584,	124,	155
2449,	2.445621,	1.04236,	126,	159
2450,	2.45495,	1.099699,	128,	162
2451,	2.45963,	1.156898,	130,	166
2452,	2.459569,	1.213655,	132,	170
2453,	2.454665,	1.270028,	135,	174
2454,	2.444864,	1.326066,	137,	177
2455,	2.430102,	1.381384,	139,	181
2456,	2.410353,	1.43593,	142,	185
2457,	2.385584,	1.489919,	144,	188
2458,	2.355803,	1.54303,	147,	192
2459,	2.321017,	1.595104,	150,	196
2460,	2.281262,	1.646241,	152,	199
2461,	2.236603,	1.696525,	155,	203
2462,	2.187092,	1.745357,	158,	207
2463,	2.132855,	1.793074,	161,	210
2464,	2.074009,	1.839551,	164,	214
2465,	2.010718,	1.884464,	167,	218
2466,	1.943135,	1.927924,	170,	221
2467,	1.871505,	1.969926,	174,	225
2468,	1.796067,	2.010271,	177,	229
2469,	1.717109,	2.048772,	181,	232
2470,	1.635005,	2.085623,	185,	236
2471,	1.550142,	2.120451,	189,	240
2472,	1.463058,	2.153445,	193,	244
2473,	1.374297,	2.18433,	198,	247
2474,	1.284652,	2.213196,	203,	251
2475,	1.195013,	2.239945,	208,	255
2476,	1.106511,	2.264481,	214,	259
2477,	1.020664,	2.28679,	221,	262
2478,	.9393517,	2.306768,	228,	266
2479,	.8650541,	2.324223,	237,	270
2480,	.8008385,	2.339461,	247,	274
2481,	.7503074,	2.352195,	257,	277
2482,	.7172539,	2.362381,	269,	281
2483,	.704807,	2.370136,	282,	285
2484,	.7144955,	2.375238,	295,	289
2485,	.7456966,	2.377949,	307,	293
2486,	.7958422,	2.377867,	318,	297
2487,	.8614417,	2.375238,	329,	300
2488,	.9389093,	2.370136,	338,	304
2489,	1.025038,	2.362216,	345,	308
2490,	1.117242,	2.351779,	352,	312
2491,	1.213445,	2.338459,	359,	316
2492,	1.312003,	2.322794,	4,	320
2493,	1.411637,	2.304482,	10,	324
2494,	1.511284,	2.283629,	14,	328

2495,	1.610096,	2.260079,	19,	332
2496,	1.707332,	2.234097,	23,	336
2497,	1.802406,	2.205683,	27,	340
2498,	1.894724,	2.174833,	31,	344
2499,	1.983827,	2.141531,	35,	348
2500,	2.0693,	2.105755,	39,	352
2501,	2.150734,	2.067846,	42,	356
2502,	2.227788,	2.027687,	45,	0
2503,	2.300143,	1.985041,	49,	4
2504,	2.367508,	1.94065,	52,	8
2505,	2.429626,	1.894082,	55,	12
2506,	2.486239,	1.84549,	58,	16
2507,	2.537154,	1.795035,	61,	20
2508,	2.582164,	1.742779,	64,	25
2509,	2.621114,	1.68902,	67,	29
2510,	2.653838,	1.633368,	70,	33
2511,	2.680236,	1.576244,	73,	38
2512,	2.700189,	1.517738,	76,	42
2513,	2.713631,	1.458088,	79,	47
2514,	2.720495,	1.397286,	81,	51
2515,	2.720755,	1.335323,	84,	56
2516,	2.714397,	1.272643,	87,	61
2517,	2.701413,	1.208973,	89,	66
2518,	2.681864,	1.145004,	92,	71
2519,	2.655775,	1.080864,	94,	76
2520,	2.623247,	1.016521,	97,	81
2521,	2.584358,	.9523453,	99,	87
2522,	2.539253,	.888374,	102,	93
2523,	2.488069,	.8256038,	104,	99
2524,	2.430959,	.7645875,	106,	106
2525,	2.368145,	.7046713,	108,	113
2526,	2.299823,	.648278,	110,	121
2527,	2.226269,	.5954237,	112,	129
2528,	2.147756,	.5471359,	114,	139
2529,	2.064613,	.5055022,	116,	149
2530,	1.977183,	.4722863,	117,	161
2531,	1.885863,	.4489236,	119,	174
2532,	1.791123,	.4378923,	120,	187
2533,	1.693503,	.438785,	121,	200
2534,	1.593656,	.4510975,	122,	213
2535,	1.492282,	.4755888,	122,	226
2536,	1.390317,	.5089736,	122,	237
2537,	1.288898,	.5492772,	122,	247
2538,	1.189423,	.5954237,	121,	256
2539,	1.093812,	.6455563,	119,	264
2540,	1.004382,	.6985369,	116,	272
2541,	.9242657,	.7532457,	112,	279
2542,	.8572321,	.8095733,	107,	285
2543,	.8076239,	.866527,	101,	291
2544,	.7797012,	.9237786,	93,	297
2545,	.7765258,	.9812757,	85,	303
2546,	.7988731,	1.038224,	78,	308
2547,	.8449543,	1.094887,	71,	313
2548,	.9112469,	1.150967,	65,	318
2549,	.9935744,	1.20622,	60,	322
2550,	1.088077,	1.260446,	57,	327
2551,	1.191478,	1.31377,	55,	331

2552,	1.301223,	1.366012,	53,	336
2553,	1.41532,	1.417154,	52,	340
2554,	1.53223,	1.467044,	52,	344
2555,	1.650797,	1.515676,	52,	349
2556,	1.770043,	1.563043,	52,	353
2557,	1.889217,	1.608892,	53,	357
2558,	2.007679,	1.653468,	54,	1
2559,	2.12491,	1.696525,	55,	5
2560,	2.240501,	1.738288,	56,	9
2561,	2.354004,	1.77841,	57,	12
2562,	2.465152,	1.816999,	59,	16
2563,	2.573587,	1.854362,	60,	20
2564,	2.679083,	1.889951,	62,	24
2565,	2.781372,	1.92417,	64,	28
2566,	2.880274,	1.956791,	65,	31
2567,	2.97561,	1.987893,	67,	35
2568,	3.067198,	2.017643,	69,	39
2569,	3.154869,	2.045623,	71,	42
2570,	3.238486,	2.072281,	72,	46
2571,	3.317939,	2.097297,	74,	49
2572,	3.393113,	2.120912,	76,	53
2573,	3.463897,	2.142807,	78,	57
2574,	3.530235,	2.163398,	80,	60
2575,	3.591996,	2.182273,	82,	64
2576,	3.649147,	2.199832,	84,	67
2577,	3.701603,	2.215665,	86,	71
2578,	3.74932,	2.23016,	88,	74
2579,	3.792253,	2.243081,	90,	78
2580,	3.830359,	2.25463,	92,	81
2581,	3.863595,	2.264568,	94,	85
2582,	3.891929,	2.273174,	96,	88
2583,	3.915353,	2.280035,	98,	92
2584,	3.933825,	2.285509,	100,	95
2585,	3.947341,	2.289521,	102,	99
2586,	3.955899,	2.291993,	104,	102
2587,	3.959476,	2.293015,	106,	105
2588,	3.958072,	2.292504,	108,	109
2589,	3.951693,	2.290374,	110,	112
2590,	3.940343,	2.28679,	112,	116
2591,	3.924026,	2.281576,	114,	119
2592,	3.902748,	2.275063,	116,	123
2593,	3.876549,	2.266808,	118,	126
2594,	3.845432,	2.256881,	120,	129
2595,	3.809428,	2.24543,	122,	133
2596,	3.768572,	2.232435,	124,	136
2597,	3.722903,	2.217691,	125,	140
2598,	3.672448,	2.201429,	127,	143
2599,	3.617282,	2.183526,	129,	147
2600,	3.557445,	2.163849,	131,	150
2601,	3.493027,	2.142534,	133,	154
2602,	3.424085,	2.119622,	135,	157
2603,	3.350696,	2.094781,	137,	161
2604,	3.272959,	2.068319,	139,	164
2605,	3.191004,	2.040077,	140,	168
2606,	3.104947,	2.010174,	142,	171
2607,	3.0149,	1.978239,	144,	175
2608,	2.921044,	1.944773,	146,	179

2609,	2.823525,	1.909492,	147,	182
2610,	2.722548,	1.872294,	149,	186
2611,	2.618356,	1.833486,	150,	190
2612,	2.51114,	1.792638,	152,	193
2613,	2.401227,	1.750165,	153,	197
2614,	2.28891,	1.705945,	154,	201
2615,	2.174525,	1.659839,	155,	205
2616,	2.058559,	1.612048,	156,	208
2617,	1.941457,	1.562668,	157,	212
2618,	1.823868,	1.511414,	157,	216
2619,	1.706453,	1.458624,	157,	220
2620,	1.590119,	1.404265,	157,	225
2621,	1.475938,	1.348437,	157,	229
2622,	1.365276,	1.291252,	155,	233
2623,	1.259888,	1.232363,	154,	237
2624,	1.16194,	1.172514,	151,	242
2625,	1.074185,	1.111375,	147,	247
2626,	.9998877,	1.049652,	143,	252
2627,	.9427174,	.9868411,	137,	257
2628,	.9062263,	.9235668,	131,	262
2629,	.8930833,	.8599555,	124,	268
2630,	.9042288,	.7969094,	117,	274
2631,	.9385535,	.7345748,	111,	280
2632,	.9932281,	.6737312,	105,	288
2633,	1.06458,	.6154583,	101,	296
2634,	1.148831,	.5609083,	97,	305
2635,	1.242604,	.5116573,	95,	315
2636,	1.343103,	.4706262,	93,	327
2637,	1.448035,	.440565,	92,	340
2638,	1.555605,	.4233529,	92,	354
2639,	1.664414,	.4219641,	92,	9
2640,	1.773237,	.4374452,	92,	23
2641,	1.881145,	.4668697,	93,	37
2642,	1.987324,	.5085891,	94,	49
2643,	2.091131,	.5602102,	95,	60
2644,	2.191931,	.6192611,	96,	69
2645,	2.289277,	.6832464,	98,	77
2646,	2.382683,	.7516859,	100,	85
2647,	2.471728,	.82228,	102,	92
2648,	2.556103,	.8953922,	103,	98
2649,	2.635428,	.9692423,	105,	104
2650,	2.709451,	1.044047,	108,	110
2651,	2.777891,	1.11944,	110,	115
2652,	2.840508,	1.194327,	112,	120
2653,	2.897105,	1.269566,	114,	125
2654,	2.94748,	1.343934,	117,	130
2655,	2.991484,	1.41743,	119,	135
2656,	3.028956,	1.490182,	122,	139
2657,	3.059809,	1.561917,	124,	143
2658,	3.083924,	1.632291,	127,	148
2659,	3.101239,	1.701126,	129,	152
2660,	3.111705,	1.768382,	132,	156
2661,	3.115292,	1.833806,	135,	161
2662,	3.112,	1.897483,	138,	165
2663,	3.101844,	1.958986,	140,	169
2664,	3.084868,	2.018514,	143,	173
2665,	3.061134,	2.075672,	146,	177

2666,	3.03073,	2.130467,	149,	181
2667,	2.993753,	2.182899,	152,	185
2668,	2.950353,	2.232785,	155,	189
2669,	2.900666,	2.280035,	158,	193
2670,	2.844868,	2.324642,	161,	197
2671,	2.783174,	2.366427,	164,	201
2672,	2.715789,	2.405374,	167,	205
2673,	2.642975,	2.44138,	171,	209
2674,	2.564987,	2.474416,	174,	213
2675,	2.482142,	2.504444,	177,	217
2676,	2.394756,	2.531418,	181,	220
2677,	2.303188,	2.555206,	185,	224
2678,	2.207836,	2.575971,	188,	228
2679,	2.109109,	2.593562,	192,	232
2680,	2.007514,	2.608042,	196,	236
2681,	1.903545,	2.619241,	200,	240
2682,	1.797825,	2.627423,	205,	244
2683,	1.691033,	2.632245,	209,	248
2684,	1.583946,	2.63395,	214,	251
2685,	1.477495,	2.632542,	220,	255
2686,	1.372768,	2.627942,	226,	259
2687,	1.271126,	2.620283,	232,	263
2688,	1.174214,	2.609538,	239,	267
2689,	1.084034,	2.595743,	247,	271
2690,	1.00306,	2.579,	255,	275
2691,	.9341505,	2.559327,	265,	279
2692,	.8804421,	2.536809,	275,	283
2693,	.8449252,	2.511449,	287,	286
2694,	.829792,	2.483392,	299,	290
2695,	.8358099,	2.452707,	310,	294
2696,	.8619661,	2.419534,	322,	298
2697,	.9058312,	2.383852,	333,	302
2698,	.9641585,	2.345711,	342,	306
2699,	1.033591,	2.305329,	351,	310
2700,	1.111059,	2.262756,	359,	314
2701,	1.194013,	2.218043,	6,	318
2702,	1.280359,	2.171508,	12,	322
2703,	1.368419,	2.123121,	18,	326
2704,	1.456898,	2.073035,	23,	330
2705,	1.544705,	2.021222,	28,	335
2706,	1.630985,	1.968041,	33,	339
2707,	1.715037,	1.913479,	37,	343
2708,	1.796286,	1.857731,	41,	347
2709,	1.874229,	1.800795,	45,	352
2710,	1.948474,	1.743116,	49,	356
2711,	2.018645,	1.684849,	53,	0
2712,	2.084465,	1.625571,	56,	5
2713,	2.145675,	1.566166,	60,	9
2714,	2.202052,	1.506231,	63,	14
2715,	2.253405,	1.446376,	66,	19
2716,	2.299601,	1.38647,	70,	24
2717,	2.340505,	1.327097,	73,	28
2718,	2.375988,	1.268179,	76,	34
2719,	2.406003,	1.209782,	79,	39
2720,	2.430479,	1.152495,	81,	44
2721,	2.449373,	1.096315,	84,	50
2722,	2.462658,	1.041797,	87,	56

2723,	2.470345,	.9890187,	90,	62
2724,	2.472433,	.9384834,	93,	68
2725,	2.468956,	.8903535,	95,	74
2726,	2.459952,	.8457349,	98,	81
2727,	2.445481,	.8042399,	101,	89
2728,	2.425614,	.7668868,	103,	96
2729,	2.400426,	.7343085,	106,	104
2730,	2.370023,	.7063351,	108,	112
2731,	2.334501,	.6838188,	111,	121
2732,	2.293967,	.6670191,	113,	130
2733,	2.248552,	.6566734,	115,	139
2734,	2.198378,	.6521893,	118,	148
2735,	2.143611,	.6533881,	120,	157
2736,	2.084387,	.6605351,	122,	165
2737,	2.02085,	.6728595,	124,	174
2738,	1.953192,	.6898004,	126,	182
2739,	1.881554,	.7110279,	128,	190
2740,	1.806167,	.7351072,	130,	198
2741,	1.72718,	.7627944,	132,	205
2742,	1.644842,	.7922317,	134,	212
2743,	1.559343,	.8237062,	136,	218
2744,	1.470913,	.8565367,	137,	224
2745,	1.379837,	.8905731,	139,	230
2746,	1.286383,	.9250482,	140,	236
2747,	1.190929,	.9601182,	141,	242
2748,	1.093849,	.9953272,	141,	247
2749,	.9956083,	1.030661,	142,	252
2750,	.8969629,	1.065556,	141,	257
2751,	.7987785,	1.100232,	140,	262
2752,	.702419,	1.13471,	138,	267
2753,	.6099323,	1.168671,	135,	272
2754,	.5246997,	1.201835,	129,	276
2755,	.4521739,	1.234424,	121,	281
2756,	.4006405,	1.266636,	109,	285
2757,	.3799658,	1.297898,	94,	290
2758,	.3959757,	1.328423,	79,	294
2759,	.4453735,	1.357973,	66,	298
2760,	.5191106,	1.386893,	57,	303
2761,	.6086393,	1.414945,	51,	307
2762,	.7079973,	1.441908,	47,	311
2763,	.8135876,	1.468243,	44,	315
2764,	.9230593,	1.493589,	43,	320
2765,	1.034976,	1.518124,	43,	324
2766,	1.148359,	1.541889,	43,	328
2767,	1.262474,	1.564668,	43,	332
2768,	1.376816,	1.586503,	44,	336
2769,	1.49086,	1.607433,	45,	340
2770,	1.604277,	1.627374,	47,	345
2771,	1.716738,	1.646597,	48,	349
2772,	1.827969,	1.665012,	50,	353
2773,	1.937659,	1.682644,	51,	357
2774,	2.04552,	1.699172,	53,	1
2775,	2.151345,	1.714857,	55,	5
2776,	2.254888,	1.729948,	57,	9
2777,	2.355921,	1.7439,	59,	14
2778,	2.454177,	1.757074,	61,	18
2779,	2.549461,	1.769597,	63,	22

2780,	2.641523,	1.781265,	65,	26
2781,	2.730173,	1.791984,	67,	30
2782,	2.815191,	1.801988,	69,	35
2783,	2.896328,	1.811182,	71,	39
2784,	2.973416,	1.819578,	73,	43
2785,	3.046236,	1.827294,	75,	48
2786,	3.114585,	1.834125,	78,	52
2787,	3.178266,	1.840082,	80,	56
2788,	3.237085,	1.845278,	82,	61
2789,	3.29087,	1.849826,	84,	65
2790,	3.339448,	1.853624,	87,	69
2791,	3.382653,	1.856468,	89,	74
2792,	3.420311,	1.858677,	91,	78
2793,	3.452289,	1.860148,	94,	83
2794,	3.478454,	1.860779,	96,	87
2795,	3.498657,	1.860779,	99,	92
2796,	3.512789,	1.859938,	101,	96
2797,	3.52075,	1.858362,	103,	101
2798,	3.522447,	1.855942,	106,	105
2799,	3.517814,	1.852992,	108,	110
2800,	3.506773,	1.849086,	111,	114
2801,	3.489263,	1.844536,	113,	119
2802,	3.465283,	1.839232,	115,	124
2803,	3.4348,	1.833166,	118,	128
2804,	3.397803,	1.826546,	120,	133
2805,	3.354321,	1.818934,	123,	138
2806,	3.304368,	1.810535,	125,	143
2807,	3.247987,	1.801663,	128,	147
2808,	3.185244,	1.791875,	130,	152
2809,	3.116257,	1.781484,	133,	157
2810,	3.041116,	1.77026,	135,	162
2811,	2.959916,	1.758408,	137,	167
2812,	2.872778,	1.745804,	140,	172
2813,	2.779919,	1.732545,	142,	177
2814,	2.681472,	1.718728,	145,	182
2815,	2.577625,	1.704226,	147,	187
2816,	2.4686,	1.68902,	149,	192
2817,	2.354584,	1.673325,	152,	197
2818,	2.235883,	1.656892,	154,	202
2819,	2.11276,	1.639817,	156,	207
2820,	1.98544,	1.622442,	158,	212
2821,	1.854322,	1.604512,	160,	217
2822,	1.719671,	1.586134,	162,	222
2823,	1.581948,	1.567289,	164,	228
2824,	1.441552,	1.548215,	165,	233
2825,	1.298958,	1.528647,	167,	239
2826,	1.15474,	1.509084,	168,	244
2827,	1.009735,	1.489394,	168,	249
2828,	.8650045,	1.46944,	168,	255
2829,	.7221937,	1.449481,	166,	261
2830,	.5842616,	1.42979,	163,	266
2831,	.4571438,	1.410378,	155,	272
2832,	.3540457,	1.391116,	141,	278
2833,	.3015756,	1.372296,	118,	284
2834,	.3252199,	1.35408,	92,	290
2835,	.4115243,	1.33664,	74,	296
2836,	.5299451,	1.319858,	64,	302

2837,	.6624314,	1.30406,	60,	308
2838,	.8009399,	1.289282,	57,	314
2839,	.9416638,	1.275865,	57,	320
2840,	1.082535,	1.26339,	57,	327
2841,	1.222319,	1.252821,	58,	333
2842,	1.360085,	1.243735,	59,	340
2843,	1.495207,	1.236323,	61,	346
2844,	1.627168,	1.230616,	62,	353
2845,	1.755449,	1.227115,	64,	359
2846,	1.879731,	1.225201,	66,	6
2847,	1.99957,	1.22552,	69,	12
2848,	2.114686,	1.227593,	71,	19
2849,	2.22476,	1.231886,	73,	25
2850,	2.329538,	1.237904,	75,	32
2851,	2.428736,	1.246248,	78,	38
2852,	2.522098,	1.256094,	80,	45
2853,	2.60945,	1.268025,	83,	51
2854,	2.690567,	1.281371,	85,	58
2855,	2.765296,	1.296239,	88,	64
2856,	2.833458,	1.312579,	90,	70
2857,	2.894904,	1.330188,	93,	76
2858,	2.949539,	1.349017,	95,	82
2859,	2.997254,	1.368586,	98,	88
2860,	3.037962,	1.389006,	101,	94
2861,	3.071612,	1.4101,	103,	100
2862,	3.098166,	1.431703,	106,	105
2863,	3.117596,	1.453387,	108,	111
2864,	3.129911,	1.47568,	111,	116
2865,	3.135128,	1.49764,	114,	122
2866,	3.133275,	1.51954,	116,	127
2867,	3.124422,	1.541255,	119,	132
2868,	3.108626,	1.562668,	121,	138
2869,	3.085986,	1.58342,	124,	143
2870,	3.056624,	1.603538,	127,	148
2871,	3.020649,	1.622803,	129,	153
2872,	2.978223,	1.641366,	132,	158
2873,	2.929484,	1.659014,	134,	163
2874,	2.8746,	1.67566,	137,	168
2875,	2.813796,	1.691101,	140,	172
2876,	2.747239,	1.705372,	142,	177
2877,	2.675149,	1.718387,	145,	182
2878,	2.597758,	1.730061,	147,	187
2879,	2.515274,	1.740423,	150,	191
2880,	2.427952,	1.749383,	152,	196
2881,	2.33609,	1.75674,	155,	200
2882,	2.2399,	1.762959,	157,	205
2883,	2.139679,	1.767277,	160,	209
2884,	2.035666,	1.77026,	162,	214
2885,	1.928182,	1.771474,	165,	218
2886,	1.817504,	1.771253,	167,	223
2887,	1.703907,	1.769487,	170,	227
2888,	1.587692,	1.76606,	172,	231
2889,	1.469112,	1.761074,	174,	236
2890,	1.348538,	1.754514,	177,	240
2891,	1.226188,	1.746364,	179,	244
2892,	1.102444,	1.736826,	181,	249
2893,	.9775401,	1.72565,	183,	253

2894,	.8518504,	1.712919,	185,	257
2895,	.7256755,	1.698942,	186,	261
2896,	.5993959,	1.683456,	188,	266
2897,	.4734581,	1.666654,	188,	270
2898,	.3485785,	1.648258,	187,	274
2899,	.2265825,	1.628814,	183,	278
2900,	.115493,	1.608163,	164,	283
2901,	8.350116E-02,		1.58638,	91, 287
2902,	.1773915,	1.563418,	54,	291
2903,	.2930374,	1.539351,	47,	296
2904,	.4109941,	1.514644,	45,	300
2905,	.5284236,	1.488869,	45,	304
2906,	.644406,	1.462239,	46,	309
2907,	.7584695,	1.43484,	47,	313
2908,	.870344,	1.406908,	49,	318
2909,	.9797023,	1.37855,	50,	322
2910,	1.086393,	1.349741,	52,	327
2911,	1.190215,	1.320302,	54,	331
2912,	1.291045,	1.290797,	56,	336
2913,	1.38868,	1.261221,	59,	341
2914,	1.482984,	1.231569,	61,	346
2915,	1.57386,	1.201998,	63,	350
2916,	1.661152,	1.172847,	65,	355
2917,	1.74478,	1.143808,	67,	0
2918,	1.824582,	1.115415,	69,	5
2919,	1.900514,	1.087718,	72,	11
2920,	1.972459,	1.060958,	74,	16
2921,	2.040341,	1.035016,	76,	21
2922,	2.104083,	1.009958,	78,	27
2923,	2.163621,	.9866428,	80,	33
2924,	2.218869,	.9645897,	83,	38
2925,	2.269751,	.9440939,	85,	44
2926,	2.316244,	.925471,	87,	50
2927,	2.358302,	.9090509,	89,	56
2928,	2.395822,	.8942993,	91,	63
2929,	2.428799,	.8824089,	94,	69
2930,	2.457199,	.8723765,	96,	75
2931,	2.480971,	.8651714,	98,	82
2932,	2.500071,	.8606376,	100,	88
2933,	2.514494,	.8588174,	102,	95
2934,	2.524207,	.8595005,	105,	102
2935,	2.529181,	.8626807,	107,	108
2936,	2.529393,	.8687814,	109,	115
2937,	2.524858,	.8770726,	111,	121
2938,	2.515541,	.8877132,	114,	127
2939,	2.501449,	.9010543,	116,	134
2940,	2.482577,	.9159105,	118,	140
2941,	2.458913,	.9330487,	120,	146
2942,	2.430511,	.9519343,	122,	152
2943,	2.397371,	.9720634,	125,	158
2944,	2.359493,	.9937538,	127,	163
2945,	2.316916,	1.016521,	129,	169
2946,	2.269673,	1.040482,	131,	174
2947,	2.217832,	1.065189,	134,	180
2948,	2.161422,	1.090591,	136,	185
2949,	2.100518,	1.116466,	138,	190
2950,	2.03517,	1.142953,	140,	195

2951,	1.965398,	1.16934,	143,	200
2952,	1.891413,	1.195963,	145,	205
2953,	1.813256,	1.222325,	147,	210
2954,	1.731024,	1.248756,	149,	215
2955,	1.644831,	1.275099,	152,	220
2956,	1.554777,	1.300757,	154,	224
2957,	1.461073,	1.326066,	156,	229
2958,	1.363828,	1.35061,	158,	234
2959,	1.263201,	1.374431,	160,	238
2960,	1.159346,	1.397706,	162,	243
2961,	1.052541,	1.420048,	164,	247
2962,	.9429438,	1.441366,	166,	252
2963,	.8307765,	1.461971,	168,	256
2964,	.7163978,	1.481102,	169,	261
2965,	.6000929,	1.499467,	170,	265
2966,	.4824529,	1.51645,	170,	270
2967,	.3643558,	1.532223,	169,	274
2968,	.2480126,	1.546699,	164,	278
2969,	.1422984,	1.559913,	146,	283
2970,	9.963873E-02,	1.571648,	89,	287
2971,	.1767987,	1.582061,	48,	292
2972,	.2909819,	1.590932,	36,	296
2973,	.412695,	1.59841,	33,	301
2974,	.536712,	1.604512,	32,	305
2975,	.6614733,	1.609014,	33,	309
2976,	.7860735,	1.611926,	34,	314
2977,	.9100167,	1.613502,	36,	318
2978,	1.032923,	1.613502,	37,	323
2979,	1.154402,	1.612169,	39,	327
2980,	1.274136,	1.609257,	41,	332
2981,	1.391739,	1.604878,	44,	337
2982,	1.506941,	1.599265,	46,	341
2983,	1.619418,	1.592161,	48,	346
2984,	1.728876,	1.583667,	51,	350
2985,	1.834981,	1.573886,	53,	355
2986,	1.937488,	1.562918,	56,	0
2987,	2.036071,	1.550864,	58,	5
2988,	2.130461,	1.537318,	60,	9
2989,	2.220421,	1.52301,	63,	14
2990,	2.305681,	1.507528,	65,	19
2991,	2.385951,	1.491362,	68,	24
2992,	2.461051,	1.47409,	71,	29
2993,	2.530748,	1.456209,	73,	34
2994,	2.594812,	1.437563,	76,	39
2995,	2.65306,	1.418395,	78,	45
2996,	2.705307,	1.398824,	81,	50
2997,	2.751378,	1.378976,	83,	55
2998,	2.791147,	1.358837,	86,	61
2999,	2.824445,	1.338394,	88,	66
3000,	2.851183,	1.318079,	91,	72