

Table S3. Section 4.3 of Dejan Brkić, Pavel Praks, Renáta Praksová, Tomáš Kozubek: Symbolic regression approaches for direct calculation of pipe diameter

No.	$1/\sqrt{\Pi_1}$	$\Pi_2$	Re
1	1.99534E-13	4.9778E-08	229000
2	8.52935E-12	2.60577E-07	50316.30086
3	8.12906E-19	1.22273E-09	30000682.69
4	3.8938E-09	1.0183E-07	4416.881803
5	1.62867E-11	9.18373E-10	44509.16157
6	2.26457E-12	4.83436E-12	101693.0649
7	2.32585E-19	5.25269E-14	75890229.86
8	1.24466E-13	1.25327E-08	296415.822
9	1.54107E-14	1.08625E-10	791665.1641
10	1.53476E-19	2.94753E-13	85248799.96
11	5.31094E-16	3.596E-11	3082451.941
12	4.24214E-19	4.02784E-10	41445871.66
13	2.55039E-14	5.6373E-09	564422.8643
14	1.58303E-10	1.01134E-07	16762.15259
15	2.27217E-09	7.06192E-06	4934.578209
16	1.62296E-19	8.28879E-15	90135690.95
17	9.5244E-14	3.0038E-12	380350.9955
18	2.55001E-14	2.44375E-09	587955.9042
19	4.533E-14	3.7316E-08	406263.9408
20	6.80247E-15	9.96909E-10	1015654.759
21	2.19598E-18	6.66675E-10	21697505.26
22	6.72091E-18	5.37858E-13	19128273.16
23	3.23315E-11	5.41711E-09	33280.68946
24	6.07088E-15	8.67498E-09	947235.3778
25	3.38639E-16	5.57805E-11	3619061.019
26	8.91994E-17	2.40405E-13	6789154.616
27	4.35375E-09	9.07307E-09	4222.221414
28	1.13105E-14	2.79831E-12	919855.5614
29	4.78861E-15	1.68141E-12	1312877.582
30	1.95819E-09	7.1957E-10	5927.834883
31	2.70285E-15	1.26282E-09	1429444.091
32	1.16626E-15	1.51141E-10	2162548.468
33	1.02271E-12	1.00032E-10	141515.1742
34	1.55932E-18	1.76754E-11	29995304.39
35	2.05218E-13	5.43806E-08	225320.5756
36	4.59568E-13	1.08877E-09	193975.6388
37	2.29064E-16	1.6926E-13	4610973.208
38	3.68784E-16	1.83965E-11	3624725.054
39	2.63139E-17	2.1957E-13	11184213.56
40	6.29323E-12	1.09574E-09	66141.31631

41	4.99112E-13	4.16573E-09	181867.4615
42	6.38341E-10	6.59536E-09	9520.023134
43	1.71853E-17	2.26594E-09	9266361.365
44	1.30548E-12	1.99177E-07	103433.0363
45	8.28253E-13	8.74883E-10	153035.3582
46	5.48455E-13	9.04206E-08	150857.3566
47	1.80385E-11	1.44497E-08	41981.39291
48	1.50516E-10	3.81365E-07	16429.84226
49	1.65208E-19	4.01243E-15	89986936.11
50	3.79738E-17	7.64087E-10	7387099.112
51	3.89721E-19	8.34132E-14	61298302.83
52	1.59937E-14	3.62522E-12	796839.837
53	2.50075E-09	3.20614E-07	5287.458463
54	1.98013E-17	9.18901E-12	11574802.72
55	4.29175E-14	1.98021E-08	431884.7469
56	6.36161E-20	7.71684E-11	93774781.95
57	1.01758E-17	1.95818E-11	14545871.39
58	5.00879E-15	5.80004E-11	1255957.713
59	2.18586E-14	8.36771E-13	700608.779
60	5.37024E-12	2.44395E-07	60122.30586
61	1.99234E-18	4.64929E-12	28795121.56
62	2.43538E-17	9.01399E-10	8645512.983
63	1.43447E-13	3.10529E-08	266925.4445
64	8.45492E-16	3.24219E-11	2576308.277
65	2.70969E-09	2.38918E-08	5161.049367
66	1.01516E-19	8.64634E-13	96491633.8
67	8.686E-12	1.88468E-10	57961.02484
68	3.43436E-09	1.1731E-06	4543.407005
69	2.01129E-11	3.67616E-10	40778.7322
70	9.62222E-12	1.16863E-11	55554.08468
71	1.77573E-10	3.19112E-08	16219.07778
72	1.23814E-09	4.59037E-09	7196.506227
73	1.27783E-10	3.9997E-08	18552.2014
74	7.72699E-13	3.5109E-11	159156.5127
75	4.87036E-17	4.35649E-14	8732250.221
76	2.10069E-13	9.93304E-11	272828.9145
77	3.15749E-18	3.64496E-12	24317442.77
78	4.88062E-14	8.90758E-11	497488.6589
79	3.87291E-14	1.17961E-07	395010.7416
80	2.35656E-16	1.23275E-11	4368548.9
81	1.52237E-15	2.14467E-09	1729696.668
82	1.14765E-09	1.62927E-07	7362.300114
83	4.3507E-14	1.76313E-10	517224.1987

84	1.18842E-15	1.29457E-10	2159161.361
85	1.07292E-11	5.31699E-10	53024.02554
86	1.32043E-19	2.02287E-13	91426165.46
87	5.82026E-11	3.19802E-07	23949.29655
88	1.01941E-13	3.99157E-09	337871.9559
89	1.19355E-19	4.53474E-12	85049589.14
90	4.01479E-14	1.29178E-11	543613.251
91	3.3061E-12	1.52407E-11	86828.12029
92	6.95665E-18	1.09699E-11	17222148.86
93	3.27312E-18	9.68035E-12	23131609.54
94	1.74308E-19	2.47858E-11	68140056.34
95	5.72319E-12	1.28445E-08	66940.81499
96	1.63994E-17	3.59535E-14	13660496.98
97	1.23117E-17	2.03495E-13	15230475.46
98	1.47804E-19	2.87021E-11	72016803.72
99	1.14676E-16	4.65337E-11	5535927.133
100	2.14648E-18	2.30711E-13	30580236.47
101	7.75954E-14	2.34482E-11	413448.6117
102	1.83386E-14	1.21742E-11	751472.3258
103	9.12977E-18	2.17059E-09	11752368.04
104	3.8362E-17	7.2961E-09	6293810.701
105	7.42604E-12	8.09623E-08	56578.07816
106	5.09583E-19	3.34803E-10	39192651.06
107	7.9949E-14	1.66216E-10	404363.7034
108	2.18694E-19	5.81935E-12	66731795.8
109	1.75888E-09	6.22581E-09	6202.165005
110	8.75831E-17	1.42605E-09	5198032.174
111	1.04496E-13	5.4244E-12	365927.8764
112	2.39952E-16	4.66634E-13	4515186.971
113	3.59979E-11	1.4007E-10	31957.80874
114	5.64507E-14	6.13673E-10	454256.2319
115	3.86927E-19	7.90145E-10	40820099.63
116	5.80228E-19	5.31325E-10	36180673.26
117	1.74521E-18	1.2832E-10	26120028.91
118	3.91894E-19	4.96037E-12	53698425.12
119	4.47342E-15	4.57663E-13	1351483.164
120	8.46002E-10	4.81479E-09	8453.758596
121	2.28701E-13	2.72292E-10	261968.0479
122	4.54671E-18	1.24309E-12	21844825.01
123	2.23244E-18	2.10457E-14	30938723.43
124	6.17135E-19	6.62783E-12	44582902.59
125	5.26142E-14	1.66846E-09	451964.9609
126	2.70074E-14	3.46747E-09	565853.656

127	1.10508E-12	5.89338E-12	137168.9389
128	6.33459E-17	1.01836E-11	7345128.614
129	7.01035E-18	2.62691E-13	19047981.1
130	2.45044E-14	1.08573E-10	656823.9562
131	1.5816E-11	2.02442E-10	45106.0626
132	1.16832E-11	2.7264E-10	51194.63707
133	6.45239E-13	2.76136E-08	152077.5538
134	1.10975E-16	7.89775E-10	4918883.751
135	1.32693E-15	2.14118E-11	2175791.925
136	1.07883E-13	1.19261E-11	360965.6199
137	5.79626E-12	7.62216E-11	68658.79741
138	1.19081E-10	1.71097E-08	19228.46922
139	2.7137E-18	3.2029E-11	23641343.9
140	9.9979E-19	1.72694E-11	35592724.44
141	1.24607E-09	1.96395E-07	7101.757182
142	1.5188E-09	6.86651E-09	6599.582304
143	2.57795E-09	7.38004E-06	4690.148048
144	7.21232E-11	1.00531E-08	23760.2
145	9.82539E-18	5.80676E-14	16827309.55
146	7.82084E-15	8.93374E-13	1072339.701
147	1.23979E-18	4.76097E-13	37277081.48
148	1.479E-13	1.97434E-09	300314.9197
149	5.41206E-14	9.74339E-12	480569.7469
150	5.31392E-12	1.48983E-08	68698.83561
151	6.429E-12	3.50292E-11	65757.16328
152	1.07666E-17	4.50486E-10	12247780.71
153	1.09311E-09	4.59567E-10	7587.971998
154	3.19102E-15	6.82684E-12	1545650.172
155	3.57706E-13	9.99945E-11	218893.0383
156	2.24049E-10	2.42014E-06	12709.58113
157	2.23887E-12	1.39554E-07	86557.48275
158	2.58962E-11	8.2291E-11	36693.32335
159	4.19325E-09	1.02208E-08	4290.007285
160	1.39495E-16	8.23583E-14	5659708.829
161	1.86548E-19	8.17027E-10	53246241.69
162	2.38815E-15	1.46886E-12	1749853.997
163	1.22725E-13	1.40985E-12	342372.4617
164	2.1306E-18	4.78068E-13	30156984.76
165	6.85299E-17	5.91608E-14	7585458.484
166	2.02971E-19	1.65098E-10	57891064.4
167	1.63142E-19	4.31894E-12	75595592.41
168	2.3178E-19	1.55603E-11	62506362.01
169	2.03433E-12	1.83608E-07	88141.17372

170	1.8719E-13	3.52367E-08	239643.2346
171	1.78742E-14	1.91705E-11	758247.511
172	1.32219E-13	5.44478E-11	330997.898
173	9.05946E-16	3.47788E-12	2596819.023
174	3.03025E-12	5.23631E-09	88095.46427
175	6.91469E-19	9.80942E-11	37619057.8
176	1.05227E-16	2.6207E-12	6217108.794
177	1.50811E-18	2.04222E-14	36303347.89
178	1.557E-12	7.42757E-12	118895.2829
179	1.37888E-16	6.80632E-11	5080628.626
180	1.43884E-12	2.52058E-11	122854.1972
181	3.03728E-11	3.55637E-09	34212.64737
182	6.77225E-12	5.22396E-10	64254.45566
183	2.12597E-10	3.06868E-09	15138.24693
184	6.1794E-15	9.80067E-12	1176624.089
185	2.53781E-12	5.25356E-12	96970.48771
186	8.52705E-14	1.27964E-07	293627.1763
187	7.63628E-12	3.43933E-07	51516.25211
188	4.53705E-18	2.8462E-12	21311859.77
189	1.27548E-15	2.89819E-13	2270427.359
190	1.48843E-19	1.62354E-14	92544142.32
191	8.40587E-18	1.17172E-11	15971432.26
192	1.25737E-15	3.14846E-11	2204483.721
193	2.8862E-15	1.46546E-08	1208922.019
194	3.93952E-19	1.20655E-13	60520891.95
195	4.69908E-19	1.46037E-12	52422377.88
196	7.42957E-15	3.60508E-12	1093947.126
197	2.4908E-15	6.83008E-11	1650596.248
198	6.8217E-12	3.29091E-09	63603.40868
199	5.65855E-18	1.86083E-10	16403014.82
200	1.16599E-11	4.53812E-10	51220.10199
201	1.13243E-11	2.14119E-08	50302.87796
202	1.39587E-16	6.678E-09	3938172.765
203	2.59125E-13	6.8271E-12	250894.1893
204	3.13449E-15	1.80833E-10	1464517.885
205	3.38954E-09	6.74947E-10	4696.885472
206	9.97558E-11	3.04513E-10	20827.38527
207	9.41454E-15	4.45769E-08	718769.0764
208	1.14842E-15	1.17211E-12	2366887.729
209	5.62546E-18	1.25313E-10	16780926.38
210	6.79278E-18	1.54519E-11	17151183.86
211	2.78857E-09	7.85455E-10	5102.529847
212	6.831E-20	3.40474E-11	95641240.42

213	4.34812E-16	1.11158E-13	3541628.488
214	1.5343E-16	5.80713E-11	4906344.118
215	9.01903E-11	3.4384E-07	20148.62879
216	4.5821E-18	4.54545E-11	19050165.85
217	7.71344E-12	3.97537E-09	60368.76499
218	5.6727E-12	3.04451E-09	68669.4294
219	5.80503E-10	3.32329E-07	9640.660847
220	5.2788E-17	3.68314E-13	8396208.41
221	2.69763E-14	5.03145E-08	482525.4278
222	1.16828E-15	1.5849E-09	1943394.887
223	5.34538E-17	7.29113E-11	7289819.913
224	1.48461E-16	1.3239E-13	5513775.357
225	8.08025E-10	2.13948E-07	8489.060028
226	6.20487E-13	1.26035E-11	174438.9583
227	8.86334E-15	2.06759E-12	1017719.714
228	1.16373E-18	1.01659E-12	37351954.41
229	4.25227E-19	5.05106E-14	59812599.21
230	6.32949E-17	3.05777E-13	7805103.677
231	6.38408E-14	1.929E-12	449106.0081
232	1.85522E-09	2.77415E-09	6064.564558
233	2.88319E-17	1.24995E-10	9010959.585
234	3.49064E-09	1.0408E-09	4638.588068
235	5.84524E-16	3.16918E-12	3106448.038
236	5.97062E-12	4.18822E-11	67820.89
237	2.90837E-19	4.78885E-15	71440392.77
238	5.79704E-15	3.01312E-09	1023436.396
239	4.10492E-11	3.76628E-11	30247.08203
240	6.318E-11	5.50918E-08	24634.15156
241	3.66476E-17	1.09496E-12	9614986.76
242	8.13597E-15	3.8539E-13	1055195.36
243	1.07007E-14	1.43724E-10	910415.8413
244	1.42459E-09	4.56177E-07	6641.017626
245	4.69925E-17	1.69138E-13	8837648.529
246	1.55004E-11	2.5274E-07	40218.87403
247	8.12367E-12	2.66656E-10	59594.11005
248	1.0708E-14	1.81412E-09	830847.9353
249	1.44527E-11	4.44386E-11	46852.55622
250	4.27269E-09	1.051E-07	4246.402261
251	3.14118E-18	2.39903E-11	22640662.41
252	9.36536E-10	6.41073E-07	7812.535744
253	1.86344E-19	2.80955E-11	66019762.35
254	2.31518E-09	5.98999E-11	5521.695384
255	3.8472E-12	3.35153E-08	75880.74752

256	1.07995E-09	2.85461E-09	7625.743523
257	7.11653E-10	7.67459E-10	9097.73618
258	9.30103E-15	6.10461E-13	998223.7009
259	1.3848E-13	1.16296E-09	313090.2435
260	8.06106E-14	2.57705E-12	407640.7971
261	4.86457E-18	7.31455E-11	18211469.42
262	6.77046E-12	1.54012E-09	64084.83753
263	3.71298E-14	1.54531E-12	562369.2483
264	1.64901E-17	6.05287E-10	10252537.49
265	1.66927E-14	5.48637E-11	773926.7796
266	6.19128E-14	3.20137E-10	444303.1528
267	5.42426E-10	7.70727E-07	9650.533834
268	1.33522E-19	5.82206E-15	97833269.32
269	4.68178E-11	3.48574E-11	28622.93759
270	1.37936E-09	4.01452E-10	6876.556289
271	1.46321E-14	2.67354E-10	791725.9182
272	2.24065E-16	2.9104E-13	4649256.402
273	9.47663E-19	1.60571E-12	39841322.9
274	1.03634E-18	2.52954E-10	30580255.85
275	3.03468E-10	2.37245E-10	13037.85159
276	1.50857E-10	4.9442E-09	17478.7293
277	7.49005E-19	2.16945E-14	48198910.21
278	4.71891E-09	8.15156E-10	4080.937385
279	3.37203E-09	2.32955E-06	4484.338514
280	9.11866E-13	1.17643E-08	138472.5755
281	3.73826E-19	1.09499E-13	61924373.29
282	7.02038E-18	6.06065E-14	19297611.17
283	2.97329E-19	3.28009E-12	60693064.33
284	4.92796E-09	2.82937E-10	4006.473083
285	1.63684E-10	5.4346E-10	16909.32853
286	7.57177E-15	3.98058E-10	1011162.468
287	2.54327E-11	7.10299E-11	36972.60897
288	2.64299E-15	4.70181E-11	1627119.266
289	2.5526E-16	3.56353E-11	4101603.069
290	2.35711E-15	3.62967E-13	1761531.027
291	2.58538E-14	1.04061E-12	653489.3182
292	1.53099E-15	1.09331E-08	1562207.754
293	8.61159E-18	9.2303E-10	12746149.43
294	4.6018E-11	8.42702E-11	28829.76406
295	2.18599E-18	3.5305E-11	25563883.76
296	5.46805E-10	4.14477E-06	8755.765509
297	5.64295E-18	1.56318E-09	14389467.17
298	1.06752E-11	3.84834E-11	53188.58554

299	1.53439E-09	2.96746E-10	6573.298683
300	4.79741E-17	2.12916E-12	8532894.714
301	5.0183E-15	5.02001E-11	1258446.181
302	5.55388E-13	2.95731E-07	137743.2774
303	2.65731E-10	2.66993E-10	13788.4556
304	2.64454E-18	1.47848E-13	28373388.12
305	3.36019E-16	2.23785E-12	3901851.945
306	1.43377E-19	4.40786E-15	95256101.17
307	7.60409E-12	6.34427E-12	61304.26639
308	2.11431E-09	5.57231E-06	5150.294754
309	1.7457E-17	1.39846E-10	10850998.78
310	1.18185E-11	2.76602E-07	44328.77919
311	7.06275E-11	1.45701E-09	24066.53257
312	6.79123E-11	3.65347E-10	24479.2769
313	1.00593E-09	3.00975E-10	7859.618904
314	6.52583E-14	6.56264E-12	444839.3636
315	2.73218E-15	2.17135E-12	1654217.254
316	6.67216E-15	5.95468E-13	1145363.739
317	4.97434E-16	7.70039E-09	2432475.834
318	3.15167E-18	9.8211E-14	26593248.19
319	2.13979E-12	1.14337E-10	104050.7351
320	5.32244E-15	1.10922E-10	1207974.555
321	1.04565E-13	4.84016E-11	364834.8114
322	5.52838E-11	3.14187E-09	26644.83955
323	4.4106E-13	1.11723E-10	200638.8313
324	8.69747E-15	1.84492E-08	788852.1077
325	3.88409E-11	5.02524E-07	27260.63644
326	3.71065E-17	2.11811E-09	6990968.03
327	1.50304E-19	6.43146E-14	89693821.6
328	7.3165E-16	2.55117E-12	2839184.607
329	3.12823E-18	3.56689E-11	22283437.48
330	1.47274E-09	6.96805E-10	6688.330276
331	5.78317E-18	1.53182E-12	19768297.16
332	2.1567E-13	1.98992E-08	234715.4229
333	6.83718E-13	2.93516E-12	167556.5429
334	9.30929E-19	1.88665E-14	44184136.66
335	1.60144E-15	1.35587E-12	2063417.867
336	4.5979E-10	2.01697E-08	10915.08457
337	2.1023E-18	5.79497E-10	22260494.49
338	1.02904E-09	1.58347E-09	7783.781725
339	3.01073E-13	3.8007E-11	235502.9152
340	4.29822E-17	4.1811E-13	9119721.752
341	2.14243E-16	9.66867E-11	4228515.299



342	6.52321E-19	8.85618E-10	33367079.48
343	7.00826E-19	8.74318E-12	41980958.03
344	5.33701E-14	6.70239E-12	483515.7626
345	9.94266E-11	2.91141E-10	20856.46381
346	3.11374E-12	3.61285E-10	88874.68533
347	7.36737E-16	4.36973E-10	2467989.814
348	5.54222E-16	4.96349E-13	3200006.927
349	4.27453E-19	1.40723E-11	49704324.94
350	2.363E-15	3.21337E-09	1432461.403
351	8.31694E-15	8.53256E-13	1045410.503
352	1.76594E-09	8.87292E-11	6193.386143
353	1.30324E-18	5.8472E-13	36346311.15
354	4.17787E-18	2.93523E-10	17937343.49
355	5.72024E-11	7.0408E-09	26210.37288
356	5.47274E-15	1.92501E-12	1242230.199
357	9.56104E-17	1.56254E-09	5001725.344
358	6.69153E-19	1.37671E-10	37372086.09
359	2.42585E-15	7.26718E-13	1740015.799
360	6.77895E-11	3.65497E-11	24502.0147
361	1.77161E-15	1.73425E-11	1945102.742
362	1.72651E-13	3.70834E-10	292912.8398
363	5.03974E-14	3.91019E-12	495295.5338
364	4.86724E-15	3.51297E-08	933985.4645
365	9.80541E-13	3.96988E-08	127227.9192
366	6.31998E-18	5.18125E-10	14842716.5
367	2.96049E-17	3.65552E-09	7313362.085
368	2.63645E-19	1.48593E-10	52823248.78
369	1.87948E-11	1.39455E-10	41965.30348
370	4.23094E-16	2.2262E-12	3553021.359
371	4.33987E-10	1.66786E-09	11209.50219
372	2.13554E-15	1.57041E-10	1708382.597
373	1.92704E-18	1.91473E-11	27564624.03
374	6.03761E-20	2.56416E-10	88322703.67
375	9.31109E-20	3.01309E-10	74335317.59
376	9.11306E-10	7.82262E-09	8190.406345
377	1.80774E-19	2.44695E-10	58926412.82
378	2.0308E-13	7.19389E-08	222059.0029
379	4.5274E-09	2.05392E-08	4151.551425
380	5.54433E-14	2.37953E-09	436693.0697
381	2.34761E-16	3.3667E-13	4559629.149
382	5.4811E-16	3.60783E-09	2466317.653
383	3.83293E-19	6.64893E-15	63750237.33
384	1.89932E-12	7.1447E-12	109436.2895

385	6.47125E-18	6.86196E-14	19934825.38
386	9.31694E-16	1.60548E-09	2115887.665
387	1.00254E-12	1.2144E-09	141053.4671
388	2.6411E-15	1.00785E-08	1281673.252
389	3.47424E-18	3.70436E-10	18966247.78
390	9.18948E-14	3.06684E-08	315812.6487
391	2.26608E-12	1.47282E-10	101571.8861
392	5.36826E-12	3.2956E-08	66690.94244
393	2.30831E-14	8.63158E-11	674968.1187
394	3.09593E-18	9.36609E-11	21365756.03
395	2.4839E-16	2.43858E-12	4406408.813
396	7.19698E-16	4.65667E-13	2873790.559
397	2.81389E-09	1.68687E-08	5080.3353
398	1.03936E-17	1.41921E-12	15748813.98
399	1.43327E-15	4.08417E-12	2150932.136
400	3.53293E-19	3.93265E-14	64665029.75
401	2.59756E-09	1.366E-10	5258.597715
402	2.88976E-18	2.65314E-10	20731697.74
403	1.64732E-14	2.92204E-09	689017.6273
404	1.20497E-17	4.79883E-10	11696062.87
405	1.75516E-11	9.56991E-10	43136.89042
406	3.66448E-10	2.64132E-11	12041.43056
407	1.00745E-10	1.02147E-09	20735.49687
408	8.55639E-13	6.7071E-11	152477.1857
409	6.6627E-11	8.05136E-09	24581.81441
410	1.21747E-13	1.28497E-11	343284.263
411	2.81993E-18	3.01591E-12	25571657.82
412	6.1121E-17	2.27054E-13	7927600.966
413	1.4024E-13	5.8382E-12	323834.1659
414	1.73045E-13	1.85842E-08	256108.6996
415	5.13683E-19	1.11694E-10	41786323.28
416	6.87472E-12	2.20141E-11	63942.14772
417	2.38884E-10	3.62512E-07	13726.26406
418	2.0107E-18	1.12696E-10	24928284.36
419	2.58593E-17	1.54744E-10	9297661.489
420	1.993E-12	5.19813E-12	107261.3147
421	6.29243E-10	5.74618E-08	9532.161497
422	2.41296E-16	8.4644E-09	3159515.942
423	2.9763E-09	6.0547E-07	4879.914485
424	2.74461E-19	1.48135E-11	58734081.15
425	8.93103E-11	9.36278E-07	19144.46826
426	1.93524E-12	2.89738E-07	86978.53321
427	2.6242E-11	1.83603E-09	36424.64625

428	2.51861E-17	1.49556E-13	11410045.44
429	2.0152E-09	1.59185E-08	5852.467269
430	2.46947E-11	7.65686E-09	37145.36206
431	3.07175E-11	5.06126E-07	29776.09431
432	9.66411E-17	5.76388E-14	6584918.493
433	1.35313E-10	4.05751E-10	18320.28962
434	1.33398E-12	2.68988E-10	126501.6349
435	3.44171E-18	1.02844E-12	24485021.86
436	8.13431E-10	2.36744E-10	8598.35629
437	4.58878E-13	3.76679E-08	170187.6268
438	1.26229E-19	3.82514E-10	65254070.87
439	1.67168E-12	6.44703E-08	101178.2203
440	1.20224E-12	6.59687E-10	131591.107
441	4.20754E-15	3.78988E-09	1141287.306
442	2.28017E-19	1.10105E-13	75159854.17
443	3.62837E-16	4.79501E-12	3749982.624
444	9.2605E-11	1.35558E-08	21378.68196
445	1.31809E-17	3.7958E-14	14939531.19
446	3.14128E-15	5.75384E-09	1243997.521
447	3.15323E-16	7.47932E-13	4030392.264
448	4.41528E-09	2.48031E-09	4197.773542
449	1.78336E-12	1.27552E-09	111346.0481
450	2.17602E-16	3.04584E-09	3524254.173
451	4.67157E-11	3.78399E-08	28046.36645
452	2.39859E-11	1.88289E-10	37886.72686
453	3.13324E-18	3.29536E-12	24475631.94
454	1.3517E-10	8.94447E-10	18325.73465
455	2.25295E-18	3.40792E-14	30744815.16
456	4.25852E-19	2.95809E-12	53067394.6
457	1.75061E-13	3.10188E-11	295003.6731
458	1.05573E-12	7.04988E-10	138769.5357
459	3.76735E-17	1.92934E-13	9668568.555
460	1.62217E-13	2.19628E-12	304882.0518
461	3.79739E-18	1.04521E-09	17155493.77
462	1.27655E-19	1.60989E-11	78340333.61
463	1.2806E-15	2.95349E-12	2256296.921
464	1.63354E-14	2.30983E-12	790175.3597
465	2.10837E-11	8.68734E-09	39612.25227
466	8.6039E-18	2.63168E-12	16662529.73
467	7.75729E-10	2.23911E-07	8627.314798
468	1.28662E-14	1.17941E-10	849659.0885
469	2.47905E-18	6.85397E-13	28150389.39
470	5.81307E-19	1.9167E-14	53454423.08

471	7.32225E-13	3.38745E-10	162054.868
472	9.32135E-13	4.96394E-10	146397.0242
473	1.89412E-16	2.4445E-10	4258569.678
474	1.17423E-13	3.67513E-10	342513.4696
475	8.68466E-17	2.69374E-13	6861349.827
476	9.49499E-15	7.97625E-13	989655.7903
477	8.06792E-10	4.59286E-08	8596.834599
478	2.60537E-16	2.13129E-09	3367724.148
479	2.40081E-09	6.56128E-08	5424.415382
480	2.79999E-18	4.1223E-11	23094149.3
481	2.90932E-18	5.45905E-11	22462487.29
482	4.57535E-13	1.39083E-07	156725.7551
483	1.14412E-15	2.01777E-11	2310922.708
484	6.88602E-19	3.37222E-13	47349800.4
485	1.36023E-09	4.22309E-06	6199.750903
486	2.8271E-09	4.27099E-09	5072.333719
487	2.00111E-13	5.49728E-09	256976.5255
488	1.81631E-13	3.42865E-10	287194.3803
489	7.61704E-11	2.18847E-06	19128.66945
490	6.74253E-11	8.18763E-09	24458.34821
491	1.49781E-09	2.93061E-09	6639.925542
492	2.26651E-16	4.05916E-09	3406435.746
493	6.23193E-11	1.00612E-09	25370.22847
494	2.38191E-14	7.52697E-08	489896.9333
495	2.59088E-17	4.20647E-10	8825797.225
496	1.02088E-12	2.01606E-08	129548.0102
497	4.16655E-17	4.07001E-12	8884578.353
498	8.49558E-14	1.18017E-12	398894.3281
499	1.11801E-18	1.9801E-11	33898708.56
500	8.89655E-10	3.77927E-07	8080.976535
501	6.76553E-15	1.18968E-08	891762.8041
502	1.38335E-10	2.10043E-06	15374.81324
503	2.89953E-14	6.06361E-09	535537.7331
504	1.91916E-10	6.11026E-09	15793.14987
505	5.26956E-10	3.67548E-06	8954.746055
506	5.81226E-12	1.31131E-09	68320.01884
507	2.594E-12	1.13212E-10	96027.68335
508	1.68329E-13	4.9837E-10	294738.6701
509	4.44078E-16	2.41407E-12	3481520.353
510	1.63003E-19	6.36897E-12	74402509.7
511	1.48958E-18	7.77602E-13	34215430.42
512	7.78842E-14	1.76621E-09	387269.0641
513	9.38745E-12	9.5726E-11	56120.7776

514	1.32858E-13	7.9229E-10	321313.9968
515	3.37149E-18	9.82401E-13	24714958.13
516	1.00514E-15	4.99584E-09	1925045.732
517	2.85908E-10	3.81284E-06	11219.58099
518	2.14208E-16	3.60081E-09	3506761.057
519	1.69222E-17	3.8312E-12	12658106.58
520	7.43091E-10	1.27169E-08	8923.844642
521	6.46934E-13	7.08789E-08	144006.1058
522	1.89027E-16	1.09826E-09	3949348.845
523	1.14767E-12	4.3823E-12	135025.7021
524	6.93378E-14	3.16623E-09	395844.578
525	5.32447E-14	7.6888E-08	363457.0456
526	3.18487E-18	1.34737E-12	25037161.28
527	1.17524E-15	4.67269E-12	2330415.429
528	1.34209E-12	5.23406E-12	126495.4479
529	1.76512E-17	7.29994E-13	12958580.61
530	1.07529E-10	1.61451E-08	20069.94322
531	3.09517E-13	1.66653E-09	225418.1347
532	1.19006E-11	6.86066E-09	50243.45017
533	2.06884E-19	1.84868E-14	80989536
534	7.05394E-13	1.45343E-11	165362.4072
535	4.24961E-14	1.90095E-11	530578.0683
536	1.51761E-17	4.26926E-10	10793436.61
537	1.94246E-17	1.17625E-13	12700674.72
538	1.89998E-19	8.12319E-13	75913735.24
539	9.50382E-13	1.1614E-09	144237.7007
540	7.44378E-19	3.45549E-11	38588163.98
541	1.72704E-14	1.92579E-11	769024.4243
542	1.15026E-09	1.00759E-08	7421.601406
543	1.47977E-12	7.17941E-10	120722.9632
544	7.24853E-12	4.35471E-10	62472.62003
545	8.3941E-16	4.53063E-12	2673206.047
546	7.7288E-19	2.58772E-13	45585620.89
547	2.10151E-11	1.18278E-11	40053.64129
548	1.44805E-13	2.11438E-09	302125.2133
549	1.07412E-14	2.00347E-10	901431.5103
550	1.05446E-13	1.2167E-10	362026.0323
551	9.05078E-12	2.11603E-07	49829.76565
552	1.61343E-10	8.16066E-08	16696.42825
553	2.92165E-12	3.89027E-12	91433.32125
554	2.62847E-17	4.73067E-10	8721267.854
555	1.03695E-10	1.16776E-08	20407.16139
556	6.05192E-17	8.68096E-14	7979385.949

557	6.00477E-11	2.44737E-08	25466.55194
558	8.09482E-15	1.5446E-10	1014883.259
559	6.29341E-13	2.39105E-10	172775.2438
560	5.98488E-14	5.43287E-09	408640.0994
561	8.37018E-15	1.91382E-09	910491.7863
562	8.02253E-12	5.50636E-10	59864.97062
563	9.65797E-14	1.69597E-12	378192.1353
564	3.34382E-14	5.72675E-08	441378.748
565	1.29309E-15	1.18006E-09	1898712.515
566	4.42856E-15	5.46056E-13	1357042.89
567	1.17767E-17	2.60065E-09	10551938.12
568	5.23369E-11	7.75846E-07	23703.39921
569	1.33828E-16	1.37073E-09	4442090.848
570	4.86999E-11	9.38463E-09	27989.81257
571	1.69887E-12	7.11299E-11	114590.1233
572	4.56614E-14	6.95522E-08	387631.1705
573	1.41215E-13	1.06518E-08	284880.1926
574	5.27558E-13	1.21388E-07	150062.4014
575	4.00597E-13	1.34224E-10	208696.381
576	1.24569E-09	3.02456E-08	7167.233203
577	2.53361E-15	1.00313E-10	1621805.843
578	9.49845E-13	9.09818E-12	146096.2536
579	1.10869E-10	4.11227E-09	19895.99471
580	2.66887E-13	1.52359E-08	219494.3589
581	1.0187E-09	7.20893E-07	7526.949337
582	7.50674E-19	2.62856E-10	34433648.6
583	3.08823E-13	5.21598E-08	193801.3248
584	1.71025E-19	4.07664E-14	86138010.78
585	8.40016E-10	7.66157E-10	8481.87891
586	2.29126E-14	1.47904E-08	556611.1133
587	3.49745E-14	3.41866E-11	573827.9297
588	2.38602E-16	1.37141E-12	4502304.778
589	3.62754E-15	1.1109E-09	1285567.098
590	6.69629E-19	3.2132E-12	44439780.65
591	1.99461E-11	1.36023E-09	40870.5486
592	2.26792E-17	9.40401E-13	11674595.04
593	1.99528E-09	1.82385E-10	5881.008458
594	1.22278E-12	3.51009E-08	117709.7205
595	7.71728E-18	6.66554E-14	18558431.64
596	5.41868E-12	5.84332E-12	70635.57536
597	9.26474E-14	2.55469E-10	378937.4029
598	1.18844E-19	4.30268E-10	66139723.51
599	6.18515E-18	4.87048E-10	15019653.14

600	9.16857E-20	5.15289E-11	83647619.76
601	3.41746E-12	4.40006E-07	68288.38557
602	5.29164E-16	1.70396E-08	2239746.496
603	1.32225E-18	4.42588E-14	38060676.95
604	4.43625E-09	2.00758E-09	4189.375108
605	2.00326E-18	1.19339E-11	27701305.16
606	1.88234E-14	6.24074E-10	698474.3408
607	8.64267E-10	2.88265E-10	8380.740209
608	2.00692E-14	4.06082E-10	690794.0486
609	9.79325E-18	5.58499E-11	14120347.03
610	3.99397E-11	2.32055E-11	30597.21632
611	1.05474E-17	4.04649E-11	13921476.34
612	8.17258E-15	3.42092E-11	1039666.675
613	5.3953E-12	3.38142E-10	70684.76055
614	1.46721E-09	7.88891E-07	6481.381936
615	1.69445E-17	4.87011E-13	13256120.58
616	8.24287E-15	1.416E-09	928865.2436
617	1.02017E-11	5.57715E-07	44710.28769
618	2.90745E-15	4.06838E-09	1307031.943
619	1.84402E-11	6.92373E-07	35310.64233
620	3.78052E-14	1.21177E-08	466361.4134
621	4.35858E-12	1.09955E-10	77332.0735
622	3.71096E-14	1.50296E-09	519498.1392
623	2.13648E-13	6.9032E-11	271225.1314
624	8.61133E-19	2.58882E-14	45486344.62
625	2.95518E-14	2.98205E-08	483850.899
626	6.155E-16	2.27193E-10	2721242.446
627	2.44828E-19	1.25694E-14	76061487.24
628	4.33502E-09	5.43356E-09	4230.323971
629	6.43586E-12	5.0615E-10	65637.51078
630	3.97745E-15	2.67627E-12	1416395.233
631	8.77148E-11	7.34199E-08	21440.47905
632	1.80267E-10	2.91933E-10	16237.20147
633	1.26256E-17	2.11434E-13	15070742.13
634	8.57848E-12	2.95354E-11	58285.64213
635	1.11462E-12	9.21686E-08	115467.2902
636	1.72944E-19	2.90983E-13	81419812.24
637	1.20193E-17	4.8339E-09	9968030.478
638	1.84543E-19	5.30622E-10	55322565.71
639	9.40422E-19	1.21569E-12	40334572.46
640	2.82501E-16	1.65714E-08	2826651.814
641	3.10589E-18	1.64576E-13	26564160.34
642	2.449E-11	2.03973E-07	34173.61098

643	2.18565E-19	1.87406E-10	55857303.9
644	3.41462E-17	2.82189E-11	9000215.289
645	9.48478E-17	5.8126E-09	4591038.647
646	1.42151E-19	1.24402E-14	94617596.48
647	3.40067E-11	1.08025E-10	32730.70599
648	1.13073E-12	5.56074E-12	135863.4919
649	1.13421E-09	5.40974E-10	7470.35799
650	6.07076E-17	3.32223E-12	7699285.093
651	6.92424E-16	1.69797E-09	2360176.868
652	4.01172E-10	2.09679E-10	11589.86052
653	8.20118E-17	5.0409E-11	6279337.522
654	1.6131E-11	1.93636E-10	44735.79128
655	4.71648E-17	8.40798E-13	8722071.771
656	3.74156E-19	1.73366E-13	61190066.49
657	9.44673E-13	3.03672E-09	142367.007
658	6.35481E-16	2.77387E-13	3026736.746
659	2.55289E-09	4.72075E-07	5218.599839
660	1.06763E-19	1.28696E-11	84754336.27
661	4.65657E-09	5.32521E-07	4058.387685
662	2.36565E-10	3.80996E-07	13754.64308
663	3.74134E-13	7.14811E-11	215005.1759
664	2.28776E-12	5.2717E-09	98655.34641
665	7.63485E-17	2.62772E-13	7233690.68
666	3.70589E-14	1.0294E-12	562856.8733
667	6.33107E-16	9.35076E-11	2788062.559
668	3.69231E-18	1.38046E-11	21775983.72
669	1.75269E-11	1.40592E-06	34077.12808
670	1.62888E-12	1.6987E-08	108923.5617
671	5.91792E-13	1.74946E-08	160789.9658
672	7.28225E-11	7.58974E-10	23767.36325
673	8.21637E-18	4.28573E-14	18123409.12
674	2.52743E-09	3.49263E-06	4936.476565
675	3.231E-13	6.73983E-12	228895.8376
676	1.59071E-13	5.72644E-08	247018.9098
677	4.37778E-10	1.61515E-09	11168.52453
678	1.83424E-09	4.58846E-10	6094.488684
679	1.36589E-18	1.42509E-11	31847578.1
680	1.78203E-12	1.91935E-07	92336.47606
681	2.01622E-19	8.37229E-14	79418642.76
682	1.2565E-10	1.05282E-08	18840.23742
683	6.45297E-15	1.50614E-11	1153067.699
684	2.33495E-14	9.29343E-13	681694.1715
685	9.9152E-19	7.8037E-10	28847055.71



686	1.93412E-18	1.5577E-11	27768658.39
687	4.29416E-11	1.81952E-06	23989.05784
688	1.86332E-19	8.7599E-10	52961129.83
689	5.43447E-15	1.71543E-12	1245993.367
690	8.21219E-14	9.94416E-13	404559.8617
691	1.1461E-12	8.25524E-10	134004.5953
692	2.30639E-16	4.20667E-09	3376259.95
693	2.21661E-14	7.22776E-12	695635.9928
694	2.75715E-15	1.00722E-12	1649936.134
695	9.27386E-10	4.06073E-06	7187.978734
696	2.17131E-15	1.82804E-08	1322640.819
697	2.19751E-13	3.32672E-12	268723.8555
698	6.26539E-16	1.27038E-08	2153076.008
699	3.52253E-09	1.03522E-09	4620.709691
700	8.06173E-12	2.73187E-11	59820.62045
701	7.72229E-15	2.77181E-12	1077043.145
702	1.22326E-12	1.59515E-11	131466.8382
703	1.56192E-16	4.54593E-12	5258178.108
704	9.74182E-19	1.44173E-10	32349878.21
705	2.84548E-16	8.83127E-11	3804695.779
706	7.89171E-13	1.95703E-07	124876.4246
707	4.40154E-18	4.71945E-12	21194202.43
708	8.0424E-11	1.00477E-10	22803.32898
709	2.83006E-14	1.02122E-11	628446.9227
710	1.60268E-14	1.1421E-09	726385.8626
711	4.77286E-13	4.57968E-12	194603.5233
712	3.95316E-14	1.60919E-09	505584.1873
713	4.02341E-18	4.39145E-14	24250103.76
714	1.1421E-17	3.50634E-14	15846275.73
715	4.16461E-15	5.20916E-12	1387318.959
716	5.77899E-12	7.86147E-08	62388.56676
717	7.03088E-16	7.55226E-09	2141365.012
718	2.41161E-14	1.0318E-10	661551.4647
719	2.68701E-11	3.18595E-10	36121.09757
720	1.56971E-19	4.93041E-15	91754062.84
721	7.66026E-18	9.54325E-13	17932468.23
722	2.55882E-13	3.36557E-10	249738.1485
723	3.29682E-15	1.46205E-08	1150687.257
724	2.60411E-12	2.11417E-10	95818.08416
725	4.83488E-14	1.64331E-11	503169.6572
726	5.84536E-13	2.07697E-09	173981.0518
727	3.25769E-19	9.83485E-11	49980027.34
728	1.34059E-18	3.20888E-11	30944077.93

729	7.1572E-14	7.37075E-11	425793.9431
730	8.38015E-16	4.89658E-10	2337211.107
731	4.53432E-18	5.42507E-10	16765375.04
732	2.81083E-14	2.10604E-10	614569.1389
733	1.22416E-10	9.73573E-08	18620.58778
734	1.17451E-10	5.38586E-07	17800.57592
735	7.66172E-17	1.44324E-12	7125132.652
736	2.04447E-18	8.45552E-14	31703063.13
737	4.33085E-19	2.61546E-11	48065390.63
738	5.45726E-14	1.0394E-08	409381.9463
739	9.56246E-16	4.30004E-09	1979786.507
740	1.13283E-15	3.18378E-10	2122600.001
741	4.15736E-16	2.83976E-09	2776623.721
742	1.90727E-15	3.72002E-08	1311802.247
743	8.96198E-15	1.07368E-12	1013491.806
744	1.15645E-11	2.9018E-08	49487.42974
745	3.3759E-12	2.5464E-09	85138.92704
746	1.61343E-14	7.51634E-11	781666.0566
747	4.30476E-14	2.53484E-09	480117.5897
748	2.51323E-18	4.16555E-10	21266097.24
749	1.89879E-14	1.30357E-08	601947.5195
750	6.18185E-14	1.31176E-08	385534.5974
751	1.31651E-09	5.20312E-11	7013.833392
752	3.57938E-14	1.97671E-09	520953.9313
753	3.12792E-18	4.74739E-10	19431555.13
754	1.04992E-18	3.63873E-11	33766516.85
755	1.26574E-17	4.78397E-09	9789432.996
756	4.58386E-19	2.735E-14	58591615.04
757	3.02412E-19	9.3709E-12	57759649.9
758	2.27345E-10	2.06811E-10	14725.65126
759	4.59551E-14	1.85136E-11	513723.8351
760	5.25784E-11	1.60222E-07	25690.19556
761	7.14392E-16	8.96416E-10	2412275.535
762	6.69477E-19	8.77816E-11	38312429.33
763	2.22142E-17	1.78107E-11	10810043.52
764	2.29897E-16	4.44956E-09	3367570.634
765	2.56393E-18	5.09411E-13	27999420.33
766	2.98922E-18	2.63099E-09	17467217.79
767	2.87164E-15	4.48887E-08	1111444.65
768	3.91639E-09	1.86381E-10	4417.408691
769	2.7158E-18	4.70109E-10	20501125.46
770	6.81421E-18	2.51936E-10	15040726.19
771	9.81192E-17	6.82374E-11	5790150.455

772	6.14802E-16	1.96495E-11	2958462.072
773	6.11007E-10	5.9725E-08	9648.211983
774	1.14686E-11	6.48158E-11	51613.65553
775	4.65387E-15	3.62469E-12	1326730.276
776	6.59999E-12	2.40029E-09	64620.57592
777	1.96776E-16	6.37229E-10	4005269.5
778	1.14203E-17	1.36685E-11	14110134.88
779	3.58289E-19	3.73511E-13	60886906.56
780	2.45958E-10	9.17035E-11	14245.69144
781	1.07531E-10	5.66975E-11	20182.18146
782	2.56065E-15	5.65405E-13	1701880.514
783	3.03996E-17	1.39681E-12	10313643.87
784	1.07851E-19	2.69851E-11	81425020.55
785	1.31435E-14	8.51511E-13	864973.281
786	5.16801E-17	5.51622E-12	8097996.728
787	8.17951E-13	3.83989E-12	155497.3079
788	2.15891E-12	5.32893E-11	103707.8366
789	1.22346E-18	1.52604E-09	25356493.76
790	5.49721E-14	8.33648E-10	455032.5613
791	1.44366E-16	2.72945E-10	4699266.228
792	8.93638E-10	2.44355E-06	7520.860642
793	7.57849E-19	4.62234E-14	47570475.91
794	1.31208E-15	6.07141E-13	2242789.619
795	1.58974E-12	3.42958E-08	106586.3499
796	1.15469E-18	2.23493E-11	33303015.97
797	1.00613E-19	9.3701E-13	96546496.48
798	3.7668E-19	9.44653E-15	64068811.16
799	1.7189E-17	5.72959E-14	13386063.75
800	1.90066E-15	1.75621E-09	1607198.849
801	4.55098E-12	1.87288E-09	75470.89516
802	7.08507E-17	1.43836E-11	6954655.571
803	2.02228E-15	3.11395E-11	1825804.006
804	1.32394E-18	1.30144E-12	35248268.51
805	3.93742E-17	1.39106E-10	7961176.368
806	4.44755E-11	1.03311E-08	29048.13976
807	1.34423E-18	5.43575E-11	30144313.66
808	5.91402E-19	2.31806E-11	42925083.19
809	3.13833E-13	2.73654E-08	200073.741
810	2.67796E-12	2.02753E-10	94712.85542
811	5.96082E-12	4.11442E-11	67867.62349
812	4.18841E-14	2.48234E-12	534891.4192
813	3.10863E-18	1.00159E-12	25496537.64
814	2.13227E-14	1.06906E-12	707817.5307

815	7.71344E-15	1.98026E-11	1069880.254
816	2.04468E-13	8.44419E-09	250077.3032
817	7.36036E-15	2.84493E-12	1098576.328
818	6.56376E-20	5.15311E-10	81149048.72
819	2.53997E-15	7.06524E-13	1707330.07
820	9.96768E-16	6.77355E-11	2363694.006
821	1.01354E-14	1.68438E-11	957782.0816
822	7.0356E-10	1.2925E-10	9142.344269
823	2.89904E-17	3.9469E-12	10249819.85
824	4.40728E-15	6.97441E-10	1218496.188
825	1.69673E-17	5.73293E-10	10175306.44
826	3.48059E-12	6.79436E-12	84986.28384
827	8.18933E-14	9.93903E-13	405028.4224
828	4.73181E-13	1.38614E-09	190917.7055
829	3.25024E-09	2.70056E-07	4745.398623
830	1.75676E-17	7.64798E-10	9872422.963
831	6.39452E-13	1.02375E-08	159801.5847
832	3.46723E-10	4.36891E-11	12325.76527
833	6.53957E-17	1.46666E-09	5790924.011
834	1.83894E-17	1.02443E-13	12995855.38
835	1.41298E-12	2.75211E-12	123812.2797
836	3.4989E-11	1.52348E-09	32304.18216
837	2.16925E-10	1.08987E-07	14721.30147
838	9.71655E-18	2.90383E-10	13050417.36
839	8.02736E-10	2.82342E-09	8644.772317
840	5.957E-16	2.13699E-13	3109146.225
841	7.65303E-16	3.27449E-09	2188580.92
842	5.56616E-15	6.54979E-09	995316.2286
843	2.14429E-13	7.03555E-12	271438.5768
844	1.63114E-12	1.19696E-09	115565.6264
845	2.32834E-11	2.86466E-11	38368.54612
846	4.24155E-16	9.24466E-10	2935623.655
847	2.54128E-18	2.77888E-14	29309300.05
848	9.77987E-16	4.86756E-10	2203858.864
849	1.38372E-19	3.75429E-10	63157745.6
850	1.579E-09	3.46481E-10	6493.971561
851	1.56691E-17	2.01742E-12	13283785.05
852	2.71266E-12	5.41477E-10	94032.70437
853	1.79764E-11	1.14813E-08	42171.68078
854	3.94675E-19	8.76383E-12	52310793.24
855	2.84009E-10	1.88676E-08	13364.25582
856	5.42366E-12	2.72015E-11	70603.36459
857	2.17258E-16	7.18981E-09	3324758.248

858	4.44186E-18	1.42114E-13	23063594.01
859	1.80538E-13	1.86231E-11	291411.8254
860	8.66878E-14	1.47701E-10	391671.4052
861	1.16067E-18	4.58207E-13	38290338.69
862	1.08071E-16	2.04927E-10	5319063.766
863	8.58582E-11	1.04412E-10	22185.12627
864	1.49768E-15	2.15544E-10	1936971.008
865	4.20918E-17	2.09855E-12	8989902.366
866	5.67662E-13	1.75514E-07	142244.8289
867	4.86725E-17	7.46457E-10	6736200.252
868	1.28244E-14	4.61833E-09	740408.0905
869	1.09741E-11	2.65937E-11	52578.58468
870	1.08529E-12	1.06018E-11	138198.6467
871	6.64698E-14	1.51343E-07	317358.8969
872	1.13941E-12	3.648E-08	120688.1481
873	3.88347E-12	8.9858E-12	81184.85296
874	5.60553E-10	1.86935E-07	9888.275778
875	2.99742E-13	1.92385E-11	236066.02
876	2.70944E-17	2.87254E-12	10616336.12
877	1.02557E-17	2.78069E-11	14296982.73
878	5.24643E-12	3.20712E-08	67361.46461
879	1.10296E-12	1.91718E-08	126029.4201
880	1.34939E-13	2.91996E-09	306990.4139
881	2.6559E-15	8.86983E-09	1289697.171
882	3.78717E-11	3.06974E-10	31280.57837
883	3.79296E-19	2.70921E-10	44378352.85
884	1.48345E-19	3.86481E-12	78761085.86
885	2.29786E-14	1.95119E-12	686089.3005
886	3.56293E-12	1.48922E-11	84157.27584
887	4.02416E-14	7.6671E-12	543463.3864
888	6.78531E-19	3.69788E-11	39842532.32
889	1.15679E-17	2.17716E-12	14928596.92
890	1.7601E-09	2.24572E-09	6201.473084
891	3.36646E-10	1.37752E-08	12453.79199
892	3.73903E-18	5.496E-13	24096985.44
893	1.05124E-09	7.47905E-11	7714.593271
894	2.41233E-16	1.48719E-12	4479530.651
895	6.00617E-12	3.29991E-09	67027.2056
896	1.45972E-16	7.4106E-10	4449687.985
897	3.27104E-14	3.11454E-08	464494.011
898	2.48156E-11	2.56359E-10	37347.83951
899	2.18067E-11	1.50507E-08	38827.8065
900	9.21661E-17	1.89183E-09	5011465.282

901	3.16351E-18	7.06867E-10	18859565.09
902	6.3327E-20	3.8946E-11	97704516.56
903	1.31745E-18	2.32638E-12	34630241.54
904	2.99305E-16	1.22457E-13	4131048.003
905	9.98468E-14	2.56413E-11	372407.2036
906	7.25625E-11	6.5827E-09	23737.66272
907	2.16491E-13	6.14011E-09	248128.7092
908	9.67667E-10	1.34161E-06	7511.559293
909	1.68365E-10	1.0623E-09	16707.58243
910	3.46713E-14	1.02215E-08	486520.3402
911	1.20252E-18	3.75174E-14	39611727.73
912	1.33262E-19	4.33485E-13	88939220.26
913	3.43078E-09	2.40397E-09	4672.601054
914	5.16662E-15	2.79253E-12	1271435.895
915	2.39927E-10	3.09423E-07	13776.68059
916	1.13018E-15	2.06455E-12	2378552.611
917	1.32941E-16	2.48617E-09	4293781.232
918	4.67616E-14	8.84793E-13	511101.6218
919	1.03556E-09	2.22846E-06	7141.211867
920	1.49538E-19	5.02128E-14	90401692.47
921	4.63815E-15	1.00968E-08	1038035.036
922	9.67602E-11	4.17674E-07	19427.27244
923	2.03186E-18	3.21923E-13	31023281.05
924	8.69275E-12	9.48013E-09	56887.19192
925	6.83021E-12	5.74003E-07	51786.99952
926	5.96354E-18	5.23635E-10	15160155.22
927	9.369E-10	4.34225E-10	8099.480192
928	2.12858E-09	2.77461E-09	5721.371495
929	1.1582E-17	9.38593E-13	15241643.27
930	4.0918E-11	3.85242E-09	30203.85244
931	1.18046E-17	2.75348E-10	12159125.95
932	1.76657E-18	7.42713E-13	32059228.9
933	8.85508E-10	1.27682E-06	7794.412979
934	8.03804E-14	6.03154E-08	317507.8428
935	2.10692E-09	4.19638E-07	5659.630857
936	2.74939E-17	2.67337E-11	9803688.738
937	7.64051E-15	6.00573E-12	1080204.251
938	3.03809E-13	2.60664E-09	224349.243
939	1.37994E-15	5.7151E-10	1917967.732
940	4.09677E-09	2.66011E-06	4129.246351
941	4.63791E-10	1.75815E-07	10698.77984
942	1.56307E-11	4.36263E-10	45313.06272
943	2.80507E-17	1.70164E-13	10912404.06

944	8.57429E-12	3.73397E-08	55257.76484
945	6.28182E-13	9.61745E-10	171154.4353
946	1.34088E-16	4.19716E-13	5733851.148
947	5.28121E-16	1.37871E-12	3254589.836
948	1.10399E-14	1.8407E-10	893737.1193
949	3.22035E-19	1.23485E-12	61018285.31
950	1.09634E-14	7.13365E-10	857081.8734
951	6.55514E-13	2.88493E-09	164950.4284
952	1.49411E-12	1.49683E-07	100284.5414
953	3.07486E-16	1.27486E-12	4061957.261
954	1.80342E-15	2.85193E-10	1783242.885
955	1.1912E-17	2.02006E-09	10705014.44
956	3.15729E-10	1.65086E-09	12818.94781
957	7.17566E-15	7.89194E-13	1111287.42
958	2.10016E-10	2.00884E-06	13192.22402
959	2.29194E-14	2.45875E-12	686751.7793
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961	3.83818E-11	4.39966E-07	27601.55169
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964	2.06016E-17	1.2618E-09	9013010.618
965	2.3364E-18	4.4249E-14	30238845.1
966	6.21285E-13	7.54134E-09	163543.66
967	5.00778E-17	2.46968E-13	8597505.085
968	1.57218E-18	1.43434E-11	30168193.36
969	5.2134E-18	1.38611E-12	20644234.52
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971	1.81721E-15	1.39999E-08	1440518.506
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975	2.07072E-18	3.55529E-12	28647422.51
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982	3.10706E-18	1.09953E-13	26710133.13
983	1.11795E-19	3.09412E-11	79759453.2
984	3.36773E-13	1.18312E-08	203303.654
985	9.57656E-18	3.49738E-14	17032224.57
986	2.20431E-09	3.21063E-06	5228.436207

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992	8.47869E-10	1.6339E-10	8448.978182
993	1.32913E-17	3.50757E-14	14890973.68
994	4.79292E-13	5.12819E-12	194261.7342
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1007	1.85307E-16	3.98607E-11	4625712.021
1008	1.12157E-17	3.26584E-14	15966987.58
1009	9.51422E-18	3.24017E-11	14620451.02
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1011	1.66959E-16	7.14772E-12	5071855.988
1012	9.62012E-18	3.51445E-13	16709616.67
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1201	2.21128E-19	4.62768E-13	72939787.88

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1243	3.71428E-15	1.50261E-10	1379118.248
1244	2.24467E-18	1.35333E-12	28681961.92

1245	1.16146E-16	1.04623E-11	5792414.465
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1248	7.455E-12	2.58981E-09	61416.37988
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1250	5.34993E-11	9.25053E-10	27049.15261
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1260	4.82569E-16	5.61942E-13	3386827.898
1261	1.00382E-15	1.12109E-12	2501915.346
1262	3.07325E-09	2.15251E-08	4893.221209
1263	2.44454E-15	2.15129E-08	1250620.223
1264	3.03592E-09	4.55876E-07	4858.588615
1265	1.57297E-14	4.20259E-13	803047.5463
1266	2.56744E-15	4.97827E-12	1692418.402
1267	2.64144E-12	1.03363E-11	95361.04508
1268	3.03761E-17	6.68083E-09	6906706.613
1269	2.2228E-19	3.52905E-10	53202707.79
1270	2.18624E-13	3.49941E-08	226129.4159
1271	8.80433E-10	3.18788E-08	8295.532107
1272	6.96753E-19	4.47733E-12	43216870.95
1273	4.99993E-13	6.70178E-10	188630.3599
1274	7.63543E-19	1.18993E-10	35850967.06
1275	1.27103E-10	4.45917E-10	18808.88391
1276	2.44448E-17	3.60864E-14	11595380.28
1277	2.58656E-15	3.6906E-11	1649580.414
1278	1.92759E-11	1.08703E-07	38611.8121
1279	1.45588E-19	3.86233E-11	71329045.13
1280	5.80826E-11	2.94096E-09	26102.49494
1281	3.47991E-15	1.55347E-09	1285155.201
1282	8.71246E-10	8.11683E-08	8302.396016
1283	1.63674E-11	2.54324E-09	44315.56883
1284	1.87124E-19	2.3729E-13	79456685.78
1285	2.22753E-16	1.20219E-13	4665894.565
1286	3.78851E-10	1.43384E-07	11662.86677
1287	1.25424E-13	5.32368E-08	271274.1698

1288	1.3737E-14	1.83028E-08	665347.5656
1289	8.68674E-12	7.01403E-10	57889.93196
1290	9.83472E-16	4.62801E-12	2505978.506
1291	9.29837E-16	1.53537E-10	2358900.227
1292	1.29812E-19	1.53398E-14	97817328.41
1293	2.43426E-15	5.82438E-12	1728338.462
1294	8.93018E-11	1.54126E-06	18512.87812
1295	9.59049E-14	6.31633E-12	379172.9392
1296	6.40993E-18	8.67809E-14	19981474.32
1297	3.04176E-12	3.75162E-09	88432.69337
1298	3.58453E-13	9.24214E-11	218744.6851
1299	2.71315E-16	4.69202E-12	4215394.949
1300	1.91516E-18	3.94984E-12	29412313.94
1301	1.20368E-15	2.41391E-12	2316414.893
1302	4.39201E-10	5.32786E-08	11083.2234
1303	5.40737E-19	4.41473E-10	37625386.89
1304	2.77146E-11	1.52889E-08	35187.88108
1305	1.96844E-10	3.82234E-08	15518.24923
1306	2.70167E-13	1.2776E-08	220392.4274
1307	3.587E-17	4.1236E-09	6750559.84
1308	2.74995E-18	3.72123E-14	28337121.58
1309	5.0932E-18	1.07628E-12	20980940.62
1310	3.7188E-16	3.2637E-12	3730887.955
1311	6.38149E-17	9.43205E-14	7806362.088
1312	2.3166E-15	1.62518E-12	1771626.581
1313	1.46998E-10	4.2753E-09	17673.29919
1314	5.28554E-12	4.25975E-09	70458.29257
1315	2.40701E-10	8.33962E-07	13201.27959
1316	2.93455E-10	3.65805E-11	13224.06164
1317	1.05475E-11	9.02449E-12	53460.20629
1318	1.49957E-19	1.10004E-12	82294870.46
1319	3.04145E-18	2.07014E-09	17699368.57
1320	3.35197E-19	9.74378E-13	60575871.76
1321	7.06694E-13	3.96183E-10	164316.7879
1322	1.00893E-10	1.54967E-06	17680.58642
1323	1.59703E-12	3.48626E-12	117646.9464
1324	8.88767E-14	1.17803E-12	391489.835
1325	4.94277E-10	1.10379E-06	9853.162979
1326	1.96932E-13	2.4347E-11	281017.967
1327	6.79034E-18	6.17934E-13	18994759.26
1328	1.23709E-13	1.01719E-07	260506.1656
1329	5.54811E-20	1.05343E-10	96832190.35
1330	1.72706E-14	9.1064E-10	712172.8713

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1334	1.90747E-10	6.03476E-07	14676.54704
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1336	1.60379E-11	5.32066E-10	44821.85056
1337	1.40633E-14	1.49704E-11	837708.484
1338	2.62064E-18	1.81779E-13	28379224.2
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1340	5.34135E-17	2.99303E-13	8366072.526
1341	4.8918E-16	5.75437E-10	2847963.98
1342	1.84035E-17	5.4324E-14	13018469.93
1343	5.77573E-14	9.35647E-11	464196.604
1344	6.35988E-17	2.88586E-13	7791967.48
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1346	4.5926E-10	9.74915E-07	10198.2388
1347	4.25036E-12	1.9004E-08	74523.16281
1348	8.92239E-10	1.02291E-10	8268.730888
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1352	3.1939E-10	6.2594E-09	12747.37242
1353	2.12704E-12	4.19087E-11	104361.0965
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1355	4.3744E-10	6.02555E-10	11173.61141
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1357	2.10424E-10	3.32923E-08	15108.53629
1358	1.66454E-10	1.3027E-07	16337.32627
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1362	4.39249E-10	1.68692E-06	10084.6675
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1368	8.85959E-15	3.31871E-09	866873.5036
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1373	1.37897E-11	8.76498E-10	47717.26163



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1381	1.83735E-13	1.87421E-11	289294.4864
1382	5.50636E-18	1.29797E-12	20245752.61
1383	2.22007E-10	4.45611E-10	14873.04693
1384	2.78815E-14	7.30834E-10	596068.2714
1385	7.18142E-14	3.39048E-11	426541.5542
1386	1.1601E-16	8.6208E-12	5826292.171
1387	9.99793E-13	1.15849E-08	133686.2821
1388	1.15103E-11	4.44192E-10	51498.18394
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1393	1.66397E-11	8.98506E-09	43653.34554
1394	4.71733E-17	2.99626E-11	7928524.012
1395	2.16414E-09	3.14787E-09	5681.242699
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1399	1.87025E-13	1.19761E-10	286016.6063
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1403	7.16999E-16	1.33567E-12	2871487.812
1404	1.07351E-18	1.88623E-14	41701385.83
1405	3.80714E-13	5.95805E-09	199657.8869
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1407	1.95186E-09	2.83649E-06	5515.773516
1408	1.11818E-13	2.30678E-11	355397.3797
1409	1.59805E-10	6.63936E-11	17083.11406
1410	7.13594E-15	2.89461E-10	1046315.906
1411	2.74787E-10	2.29316E-07	13162.81314
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1413	1.06859E-09	3.63121E-07	7503.296097
1414	2.28869E-09	1.92072E-07	5510.169671
1415	1.88731E-11	5.59176E-08	39938.12902
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1417	4.21965E-13	7.08413E-10	202019.1507
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1419	4.54858E-18	1.11789E-13	22906434.02
1420	4.37428E-11	1.08087E-08	29240.2567
1421	3.41306E-17	2.81502E-10	8121414.235
1422	3.52818E-10	8.19555E-11	12235.42554
1423	1.4896E-13	8.45521E-12	315779.1717
1424	2.57787E-14	6.8176E-10	616036.0674
1425	1.49582E-15	1.2717E-12	2122499.484
1426	2.3451E-15	5.51067E-13	1764868.177
1427	3.34094E-16	3.58139E-12	3891759.648
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1430	1.07485E-17	3.01644E-13	16016950.97
1431	3.61969E-12	9.55168E-08	73826.715
1432	1.42908E-15	2.10759E-13	2166573.742
1433	5.4174E-19	1.58314E-13	53054619.8
1434	6.10829E-19	1.47135E-11	43277616.97
1435	4.01159E-11	3.69069E-07	27414.64192
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1438	1.63069E-10	1.51014E-10	16937.91357
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1440	4.63505E-10	6.57598E-09	10896.01487
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1442	2.60991E-16	4.92973E-09	3189719.83
1443	1.85808E-14	1.29391E-12	749322.8765
1444	1.2253E-09	1.29646E-09	7229.724714
1445	2.15313E-12	1.73019E-07	86628.88952
1446	1.09162E-13	1.06205E-11	359233.3679
1447	9.8977E-11	5.49809E-08	20519.90988
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1451	1.21958E-18	3.46875E-13	37838754.66
1452	3.77209E-11	5.98809E-11	31339.0618
1453	9.11338E-12	1.79562E-09	56608.73733
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1455	3.49333E-19	9.96203E-14	63738012.89
1456	5.82471E-13	7.17959E-12	179109.0911
1457	5.09338E-14	8.24524E-11	489186.2239
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1462	2.46196E-17	1.25552E-13	11525557.56
1463	2.08814E-09	3.98584E-10	5768.639516
1464	3.87478E-12	6.56E-11	81240.98306
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1466	9.53848E-16	4.91911E-11	2428567.905
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1473	1.91614E-16	2.10112E-10	4269148.382
1474	2.03672E-18	1.45546E-14	32164489.42
1475	1.16991E-16	2.15712E-13	6075980.166
1476	3.97418E-13	5.22397E-10	207715.5834
1477	3.77805E-14	1.89558E-10	546881.9179
1478	8.30896E-13	4.74615E-12	154481.323
1479	4.00958E-13	9.56338E-09	191944.8568
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1481	3.90464E-18	1.53468E-14	24643233.83
1482	1.80121E-17	5.85337E-09	8457633.733
1483	8.35636E-13	1.22277E-08	143019.5628
1484	3.64197E-18	1.35312E-13	24993585.76
1485	7.05436E-13	4.14522E-08	143835.0215
1486	4.64366E-12	6.5221E-08	68476.66515
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1488	4.15632E-11	1.56858E-06	24567.08343
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1494	4.11155E-15	1.38007E-11	1386922.188
1495	2.07235E-18	1.85301E-11	26845531.64
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1497	3.18383E-19	6.25402E-14	66798121.09
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1508	2.7753E-19	4.42529E-12	61588677.82
1509	7.77826E-12	1.80758E-08	58711.16655
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1515	6.96494E-15	8.14667E-10	1015299.554
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1517	2.92142E-15	4.73602E-11	1563395.742
1518	1.50352E-17	4.11776E-14	14152208.68
1519	2.83559E-18	5.89829E-10	19881842.93
1520	2.21395E-14	5.94174E-12	696166.1096
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1524	2.84513E-17	4.51932E-13	10770424.52
1525	5.80133E-14	5.61407E-09	412871.2327
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1529	3.57458E-10	8.89124E-08	12021.89739
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1532	4.65641E-13	5.71383E-08	165141.8036
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1536	5.08164E-19	2.49151E-10	39991238.81
1537	1.51272E-17	1.13358E-09	10187473.02
1538	4.46143E-12	1.04809E-10	76584.16057
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1542	1.15169E-17	2.56337E-12	14884286.93
1543	1.14978E-10	1.29388E-06	17044.03208
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1548	4.68743E-11	6.89256E-10	28595.90918
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1551	5.23252E-19	9.89294E-12	46713413.18
1552	1.82016E-11	5.09531E-08	40637.66268
1553	4.96579E-15	2.9547E-11	1274287.33
1554	1.60627E-19	2.69186E-11	70002269.67
1555	2.31815E-09	1.73982E-09	5518.336822
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1558	4.40662E-13	1.55239E-10	200531.4928
1559	1.53185E-19	6.29877E-11	68139139.13
1560	9.84335E-14	1.48412E-08	321086.9215
1561	1.59607E-16	2.74858E-11	4965177.818
1562	4.83605E-19	9.51379E-10	37054557.26
1563	1.09315E-18	2.19407E-10	30230501.07
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1565	2.01804E-14	2.24136E-09	645623.6789
1566	2.2562E-14	2.66852E-12	691207.7823
1567	7.16675E-15	4.45299E-10	1028691.387
1568	3.96294E-12	5.09173E-09	79053.04843
1569	1.16452E-18	4.51488E-10	28218669.3
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1571	2.04796E-16	4.69863E-09	3502835.952
1572	1.25478E-17	8.78277E-13	14787481.68
1573	5.35123E-14	7.00067E-08	365335.8006
1574	1.97332E-17	5.26867E-14	12652296.01
1575	1.97349E-10	1.70129E-08	15571.20133
1576	1.87718E-18	2.37658E-13	32224778.29
1577	3.18461E-14	2.47196E-12	599241.347
1578	3.23609E-17	1.92222E-10	8447299.874
1579	1.5112E-09	3.30818E-09	6614.820515
1580	1.46345E-18	2.22865E-12	33301089.86
1581	8.74611E-17	3.09777E-13	6838012.187
1582	9.21291E-20	5.80217E-10	70955975.66
1583	8.27242E-18	1.71442E-09	12402183.17
1584	1.01688E-10	1.19445E-09	20653.15475
1585	2.7313E-11	3.83921E-09	35751.92837
1586	1.03012E-15	6.79101E-10	2127300.171
1587	2.83837E-18	7.12185E-13	26671031.62
1588	1.21695E-13	2.97837E-09	319308.5881

1589	1.17588E-17	1.00373E-10	12816054.52
1590	1.27043E-10	2.94557E-10	18813.52875
1591	1.31094E-18	1.49625E-12	35221653.31
1592	5.72225E-17	1.07188E-10	6984176.626
1593	3.69158E-09	7.23611E-07	4451.936787
1594	1.1882E-10	6.3165E-11	19352.18235
1595	4.2275E-12	4.37866E-12	78357.78695
1596	1.45356E-11	6.15891E-09	46318.55237
1597	4.19445E-09	2.18675E-09	4290.324834
1598	1.95753E-18	2.39609E-14	32619986.3
1599	5.18879E-13	1.60058E-07	148061.6103
1600	5.30421E-19	1.94315E-13	53219854.83
1601	2.19127E-14	7.72135E-13	699900.7093
1602	1.42067E-15	6.46225E-12	2151603.05
1603	1.17515E-18	4.21201E-13	38193850.73
1604	8.72231E-19	1.23632E-10	34020757.53
1605	6.40607E-11	1.37249E-08	24918.9925
1606	2.63282E-10	2.45263E-07	13367.26676
1607	5.43043E-13	1.70822E-10	183860.6636
1608	1.12686E-11	1.03043E-06	41123.40118
1609	1.04757E-10	7.01869E-08	19966.39837
1610	5.30822E-20	1.56254E-10	95932400.4
1611	1.38802E-09	1.17649E-07	6816.206774
1612	9.6414E-20	1.48804E-10	77011726.46
1613	1.19747E-15	6.12322E-10	2018346.772
1614	1.27371E-12	1.19156E-07	108058.3444
1615	1.46192E-14	6.31598E-13	827732.6757
1616	1.25501E-09	6.70337E-11	7157.322984
1617	2.34188E-13	1.5218E-08	230718.414
1618	1.34337E-09	5.07801E-09	6952.150327
1619	4.21215E-10	1.29741E-10	11353.97021
1620	2.32905E-18	1.66927E-10	23085897.99
1621	9.17328E-11	2.76478E-07	20209.88425
1622	2.33838E-11	4.0005E-08	37038.15816
1623	1.7505E-18	4.41173E-12	30326873.83
1624	1.8409E-12	7.90619E-11	110811.9375
1625	3.47536E-16	1.10794E-09	3135527.497
1626	3.21181E-13	1.67442E-09	222095.353
1627	6.98243E-18	1.38794E-12	18416127.99
1628	2.07616E-10	1.28605E-06	13636.49044
1629	2.68152E-16	6.26879E-09	3105459.795
1630	4.10727E-15	5.85044E-09	1123474.102
1631	3.27112E-17	9.53138E-11	8694554.923

1632	1.66752E-17	6.45088E-14	13548923.7
1633	3.26194E-11	1.02983E-07	31509.95978
1634	2.69203E-11	8.25833E-11	36101.46765
1635	1.05463E-16	3.76521E-09	4554028.111
1636	1.80447E-13	1.66269E-08	253588.612
1637	9.37759E-10	6.20388E-07	7815.721472
1638	6.77624E-16	4.92247E-09	2233586.519
1639	6.97649E-10	4.28985E-08	9140.294796
1640	6.49151E-14	1.13544E-11	445615.5788
1641	3.26563E-17	2.69433E-11	9172587.641
1642	2.09333E-13	1.17058E-10	273051.8147
1643	4.00164E-12	1.50792E-10	80126.79333
1644	1.72277E-17	2.50975E-10	10588858.92
1645	3.84453E-11	2.09031E-10	31086.31959
1646	1.13443E-17	8.20842E-11	13116338.14
1647	1.34496E-13	1.13368E-07	250521.9367
1648	6.60387E-15	4.58225E-09	952369.0352
1649	4.11156E-19	1.16028E-14	61744387.56
1650	4.25086E-12	2.18168E-08	74177.49186
1651	1.52058E-11	3.71059E-10	45843.14596
1652	4.5997E-18	1.84509E-13	22664371.78
1653	1.15559E-10	1.07411E-07	19017.61138
1654	1.05334E-17	1.55903E-13	16261737.93
1655	2.04691E-11	7.67144E-11	40494.73177
1656	2.86837E-11	3.62242E-08	34200.26134
1657	5.02594E-18	9.76722E-13	21145532.08
1658	1.11412E-12	2.19892E-09	134033.0528
1659	1.85487E-16	1.23188E-08	3380426.534
1660	7.98403E-18	5.01223E-12	16798843.74
1661	2.71324E-12	6.79645E-09	91622.00393
1662	7.79257E-12	2.27615E-11	60677.03223
1663	3.09023E-10	6.13304E-08	12816.93832
1664	1.18133E-09	2.98673E-06	6680.038658
1665	1.21019E-15	5.58688E-10	2018749.787
1666	1.27783E-09	1.05342E-06	6791.334316
1667	1.46882E-19	2.41862E-13	87246116.83
1668	1.65212E-19	7.30833E-15	89596519.23
1669	1.21581E-12	2.75E-10	131459.5914
1670	1.13793E-11	3.59485E-11	51785.75011
1671	4.1221E-20	4.87254E-10	96696578.47
1672	1.48747E-18	6.2558E-12	31865969.87
1673	9.97757E-17	5.1228E-09	4548063.236
1674	6.57122E-18	4.56784E-11	16595209.04

1675	2.53861E-10	3.07923E-08	13977.91282
1676	1.30624E-13	1.17958E-09	320285.8945
1677	2.90003E-13	5.24516E-12	239430.2256
1678	1.53003E-15	1.49226E-09	1759916.755
1679	1.11052E-11	4.87316E-11	52315.59288
1680	4.0238E-11	2.71872E-08	29969.58435
1681	5.63909E-19	2.35872E-10	38593551.31
1682	6.72088E-12	1.37059E-10	64528.91618
1683	4.79876E-12	4.32848E-07	60282.80197
1684	2.42449E-18	1.33893E-10	23011058.41
1685	8.33647E-19	3.29444E-12	40804454.14
1686	6.66045E-12	9.65064E-10	64622.6615
1687	8.34491E-13	1.03857E-09	152295.4423
1688	7.16468E-11	1.67627E-06	19973.23619
1689	2.40823E-15	8.45267E-12	1731641.211
1690	2.0377E-12	3.09749E-12	106274.6176
1691	1.08525E-17	7.89959E-14	16136410.29
1692	9.95879E-13	5.89333E-09	137044.9433
1693	1.95872E-19	1.22129E-12	73957980.82
1694	1.47978E-09	8.06044E-06	5743.684957
1695	2.10068E-10	2.32007E-06	13059.00712
1696	5.20894E-17	1.23348E-10	7194187.107
1697	2.53278E-13	2.68688E-11	253117.4552
1698	4.05126E-14	3.50549E-10	525398.0044
1699	9.1331E-11	3.19955E-11	21616.87866
1700	4.16392E-09	1.01409E-06	4211.719144
1701	2.20164E-16	4.79291E-12	4581165.059
1702	1.24328E-11	1.05002E-11	49903.80524
1703	1.61437E-09	5.972E-08	6414.941507
1704	3.74645E-13	5.31979E-08	180004.7617
1705	1.67225E-18	1.83704E-11	29154535.91
1706	1.28607E-15	1.47495E-10	2084176.241
1707	7.3249E-12	1.38476E-10	62248.91869
1708	1.67439E-11	4.29247E-08	42230.19961
1709	2.92938E-18	2.48878E-11	23216881.54
1710	1.27943E-11	1.25864E-09	49201.67857
1711	9.04155E-10	4.1106E-06	7251.347773
1712	4.05405E-09	2.19353E-08	4350.689271
1713	1.40515E-17	2.24149E-14	14565371.56
1714	6.56542E-10	1.88958E-06	8588.896536
1715	3.03207E-09	2.48374E-06	4666.366147
1716	1.3268E-17	8.18498E-10	10924054.31
1717	9.11964E-10	1.61243E-07	8101.937936



1718	8.17782E-10	1.03091E-07	8511.695726
1719	2.17583E-14	1.29512E-09	642299.8122
1720	1.79883E-18	8.11811E-12	29320234.49
1721	4.08676E-14	6.38128E-10	515395.425
1722	1.22301E-10	2.18121E-10	19117.54598
1723	1.14722E-15	3.24785E-13	2371813.599
1724	1.66904E-18	9.14102E-13	32575144.41
1725	1.86922E-13	2.08205E-11	287211.12
1726	8.11732E-18	2.20837E-10	14177938.78
1727	3.14451E-11	2.88414E-09	33740.63137
1728	1.60682E-10	3.44705E-10	17042.51375
1729	2.64854E-18	1.15432E-11	24918629.51
1730	3.08175E-19	4.10595E-11	53501909.74
1731	6.78899E-10	4.54398E-07	8978.708796
1732	2.07099E-18	1.68056E-13	31207717.74
1733	2.59039E-11	2.1877E-11	36691.04922
1734	3.02136E-15	3.16561E-13	1589798.683
1735	1.44338E-14	2.54514E-11	826559.2209
1736	2.73833E-15	1.30744E-09	1419948.389
1737	1.47875E-17	2.67274E-11	12443478.86
1738	3.82027E-11	1.27337E-11	31173.76247
1739	3.45428E-09	1.79095E-07	4636.708213
1740	7.66072E-20	5.58385E-11	89111638.34
1741	9.72925E-10	5.70791E-09	7968.26242
1742	9.76463E-18	9.05167E-11	13824270.63
1743	2.39819E-12	3.71812E-08	90670.72323
1744	4.34883E-13	6.77859E-09	188657.0062
1745	3.88732E-18	1.29989E-10	19271383.56
1746	3.68395E-15	2.76171E-11	1438758.3
1747	4.17631E-15	1.67678E-10	1312798.846
1748	2.63707E-16	5.94798E-12	4246261.59
1749	1.12613E-19	2.85325E-13	96225140.21
1750	7.81248E-11	1.65047E-08	22919.31194
1751	1.72935E-11	1.3871E-06	34283.69049
1752	1.7358E-09	1.70505E-08	6233.838373
1753	1.24345E-16	1.91389E-11	5537056.725
1754	1.88366E-13	3.66583E-10	282751.8526
1755	4.37772E-14	7.57338E-08	391193.6273
1756	1.0799E-15	1.5802E-12	2425632.814
1757	4.32069E-15	1.37446E-09	1190493.663
1758	1.36688E-14	3.66222E-11	842846.4603
1759	3.36914E-19	1.42361E-14	66798919.35
1760	8.28007E-20	8.26407E-11	84579003.52

1761	1.44748E-15	7.86519E-13	2153094.94
1762	1.41551E-13	2.42537E-12	322643.05
1763	3.61225E-15	1.34722E-10	1398964.286
1764	5.2263E-17	4.644E-09	5820920.966
1765	3.43827E-16	2.95525E-12	3855313.328
1766	7.64161E-11	3.77522E-10	23295.51856
1767	6.84065E-19	1.10419E-10	37526751.37
1768	2.57164E-11	1.19027E-06	29979.09704
1769	7.52191E-15	3.82767E-08	790096.1337
1770	7.04877E-16	1.1949E-12	2892736.81
1771	3.3551E-19	3.25532E-10	45895076.79
1772	1.43397E-11	6.59765E-10	46960.20294
1773	3.36433E-15	2.46135E-08	1100054.945
1774	3.69482E-17	2.67128E-12	9413998.625
1775	8.64929E-14	4.25609E-11	394737.7335
1776	1.29794E-17	3.78194E-13	14804199.92
1777	1.42036E-14	7.10189E-12	836108.8225
1778	1.46304E-18	1.42192E-13	35936195.19
1779	1.26807E-16	1.91636E-13	5879677.68
1780	6.57868E-15	4.42461E-11	1131165.336
1781	3.97977E-14	3.70989E-11	543919.6035
1782	1.41308E-17	9.15779E-12	13189860.96
1783	1.9456E-09	8.02427E-09	5942.210714
1784	3.42368E-13	1.13481E-10	222827.5154
1785	4.92316E-10	5.92634E-07	10126.87564
1786	4.34785E-16	1.39834E-08	2445899.405
1787	2.62672E-09	8.16504E-07	5109.974941
1788	2.41622E-19	4.02139E-11	58739507
1789	2.43423E-15	9.35074E-13	1737135.865
1790	9.64413E-15	1.97172E-11	976537.8003
1791	4.04056E-10	2.85101E-09	11550.73205
1792	1.2314E-16	7.07296E-12	5720602.562
1793	4.6976E-09	1.11563E-08	4087.846277
1794	7.32149E-14	6.25493E-12	424121.4491
1795	2.50345E-14	8.3098E-11	653415.145
1796	1.06022E-15	2.57184E-11	2369612.585
1797	5.47113E-14	3.64884E-08	379271.6418
1798	4.72575E-09	1.48311E-09	4078.366007
1799	3.70453E-09	1.23504E-07	4508.427846
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1801	2.01611E-17	1.99254E-10	10094289.81
1802	1.05764E-17	1.89111E-13	16206700.5
1803	5.14638E-19	1.15055E-13	54546067.44

1804	2.34177E-11	3.54842E-11	38275.86956
1805	8.52525E-18	8.39226E-13	17244820.56
1806	1.41597E-14	2.67097E-11	832812.6389
1807	5.57549E-19	3.48647E-14	53997836.32
1808	1.38231E-16	2.95217E-11	5236932.469
1809	1.50421E-13	7.95552E-09	282081.3856
1810	1.41787E-09	4.63991E-07	6651.814547
1811	5.97086E-17	1.30825E-12	7886245.658
1812	2.29897E-16	4.7848E-09	3350971.608
1813	3.57246E-17	4.31545E-09	6737405.732
1814	2.06289E-10	3.5662E-08	15226.65231
1815	1.51505E-16	1.12155E-10	4800727.653
1816	4.30253E-10	3.11798E-11	11252.84033
1817	2.42294E-09	5.6688E-09	5415.058042
1818	3.70775E-11	5.44155E-07	27608.83909
1819	3.58122E-11	8.06267E-07	27263.00595
1820	1.48399E-11	7.36268E-09	45850.70777
1821	1.13515E-19	7.37126E-11	75615832.02
1822	1.93866E-11	6.84501E-09	41090.23154
1823	8.83701E-18	3.74099E-11	14947803.54
1824	4.21167E-15	1.57346E-10	1311104.376
1825	1.12845E-17	4.04338E-12	14794497.57
1826	1.98846E-09	5.13155E-06	5299.466611
1827	6.95336E-16	8.49571E-10	2443786.859
1828	1.07227E-12	3.32408E-08	124107.4448
1829	2.94053E-14	7.01672E-10	584612.1908
1830	1.64341E-13	3.02764E-11	302846.4492
1831	8.71883E-18	1.01335E-13	17615594.61
1832	4.05367E-18	2.98767E-12	22227122.62
1833	1.4766E-13	5.49599E-10	310242.7635
1834	1.6102E-11	1.17943E-10	44774.49915
1835	5.73217E-16	1.77387E-10	2825682.731
1836	8.32741E-10	1.0756E-09	8512.916625
1837	1.63224E-10	2.2978E-08	16833.11063
1838	8.44462E-17	6.42871E-14	6960261.268
1839	3.15273E-16	1.05608E-09	3261747.359
1840	4.46155E-12	4.13802E-07	62140.81677
1841	4.55338E-16	1.58742E-09	2775643.168
1842	8.10853E-12	1.1218E-11	59678.3423
1843	1.32597E-11	1.69069E-09	48439.27868
1844	4.27839E-13	5.11278E-11	203455.0148
1845	4.37108E-18	2.77182E-10	17691970.71
1846	1.1218E-16	7.6334E-13	6147152.673

1847	9.14989E-18	5.26654E-13	16931739.65
1848	2.50477E-18	1.3274E-09	19677784.23
1849	2.2358E-17	4.51817E-09	7980274.599
1850	1.11495E-10	7.86244E-07	17787.09675
1851	1.13433E-15	3.68568E-10	2108213.5
1852	1.49608E-18	1.19007E-12	33712611.64
1853	9.69367E-16	3.85478E-12	2524310.27
1854	5.71915E-18	1.61398E-13	20802556.03
1855	3.1094E-18	2.04745E-09	17571382.32
1856	1.05536E-16	5.72262E-10	5101143.594
1857	1.05173E-18	4.47571E-14	41728358.76
1858	3.81925E-15	3.03256E-13	1442979.724
1859	9.81061E-13	6.11893E-09	137701.585
1860	3.33024E-12	7.89482E-10	86251.62218
1861	6.97702E-11	3.58072E-07	22208.18661
1862	2.29807E-09	1.57584E-08	5535.805421
1863	2.31587E-10	3.53167E-11	14611.90776
1864	2.40955E-13	1.50805E-09	249644.6983
1865	1.87164E-12	1.95688E-07	90540.45986
1866	1.35067E-14	3.69732E-12	854522.174
1867	2.07387E-09	7.18063E-08	5768.893232
1868	9.0995E-14	3.58553E-12	387610.8772
1869	3.55336E-16	2.24407E-13	3846996.053
1870	1.17217E-16	4.77964E-09	4305669.627
1871	1.80727E-14	2.0923E-11	754517.4747
1872	5.36167E-10	1.7078E-10	10254.2864
1873	1.26928E-15	3.03184E-09	1817129.92
1874	2.29191E-14	3.36473E-12	686628.5548
1875	2.21868E-19	1.13272E-13	75912347.01
1876	7.06753E-13	5.31976E-12	165253.5897
1877	1.38825E-12	6.14862E-12	124723.1752
1878	1.06093E-11	5.35618E-09	52801.95342
1879	1.96313E-12	2.46434E-10	107754.8244
1880	4.00486E-11	1.00014E-10	30560.50928
1881	4.6062E-09	4.98533E-10	4123.11466
1882	2.05136E-19	1.0177E-11	66762000.01
1883	2.10456E-14	7.36509E-11	702093.6605
1884	1.84783E-16	3.25739E-13	5031230.265
1885	2.96328E-17	4.33944E-09	7215929.524
1886	1.79226E-17	1.87613E-09	9245118.011
1887	1.66026E-10	7.84565E-09	16776.81828
1888	4.98494E-19	7.00186E-10	37516490.03
1889	2.02424E-18	3.29429E-13	31052527.67

1890	2.53494E-19	8.82189E-13	67715457.4
1891	2.97998E-15	3.97226E-10	1450078.885
1892	1.44576E-17	2.10686E-09	9932251.227
1893	6.89259E-16	3.65432E-11	2782215.115
1894	4.55575E-12	6.12227E-11	75930.63534
1895	1.1531E-18	1.30994E-11	34104055.93
1896	3.3213E-19	8.74649E-14	65213341.6
1897	2.74324E-18	5.09908E-11	23045648.41
1898	3.24224E-18	3.03142E-10	19698610.44
1899	5.73325E-10	1.41526E-10	9968.193675
1900	4.80459E-13	5.4751E-12	194063.8858
1901	2.15293E-10	3.0895E-10	15067.14545
1902	2.76683E-10	1.70998E-07	13216.94353
1903	6.18359E-13	7.24267E-09	164090.6511
1904	7.77409E-17	5.42947E-14	7202411.75
1905	9.58343E-12	4.26019E-10	55597.81213
1906	1.54304E-09	1.41535E-10	6557.718267
1907	1.47208E-15	5.06078E-09	1666929.682
1908	1.7154E-10	6.24853E-08	16345.30623
1909	6.03863E-17	2.46029E-10	6582353.26
1910	1.39731E-15	7.05801E-10	1890260.188
1911	2.01351E-16	3.0769E-09	3625793.35
1912	1.9546E-11	1.74213E-07	37562.51117
1913	5.80803E-12	1.33086E-10	68588.19716
1914	1.19535E-13	4.06395E-08	281110.0346
1915	3.61011E-10	2.81433E-11	12117.60735
1916	7.39397E-12	5.77824E-10	61933.72448
1917	2.34903E-17	3.19593E-10	9295829.94
1918	3.56921E-14	3.76555E-11	568792.8956
1919	4.57719E-19	1.63292E-11	48100315.5
1920	3.77775E-11	1.71442E-10	31316.60607
1921	1.83095E-12	1.2587E-11	111118.5284
1922	3.5053E-19	7.36875E-14	64086606.56
1923	4.10219E-11	3.8515E-11	30255.49385
1924	5.71818E-14	2.63278E-08	380984.4013
1925	9.60379E-17	1.41648E-11	6181924.666
1926	6.04411E-14	1.86773E-12	459425.3918
1927	1.8419E-16	6.42223E-14	5048169.783
1928	6.65698E-19	5.55227E-12	43612452.65
1929	2.08416E-18	4.06267E-13	30543937.35
1930	3.76798E-17	1.0727E-09	7260830.429
1931	7.75557E-11	1.76302E-10	23153.2324
1932	1.50303E-17	2.57849E-09	9647117.356

1933	1.46236E-14	2.64082E-10	792177.6394
1934	4.62137E-16	2.10512E-09	2716164.916
1935	5.41173E-10	6.62831E-08	10143.87005
1936	8.71063E-16	5.80065E-12	2627085.911
1937	3.35661E-13	5.19753E-08	187866.7367
1938	6.66702E-18	3.40173E-13	19355410.51
1939	4.18543E-09	2.25508E-09	4294.24469
1940	4.3922E-12	1.43542E-11	77113.35755
1941	6.66129E-13	6.05118E-09	160403.0329
1942	1.16324E-17	2.15324E-12	14900835.88
1943	1.00865E-17	2.39614E-10	13001726.94
1944	6.40725E-10	4.23799E-08	9473.212281
1945	6.83489E-18	2.39687E-09	12981989.51
1946	5.3909E-10	2.70885E-08	10201.12528
1947	6.84431E-16	1.41888E-10	2662985.752
1948	4.59119E-10	1.11733E-09	10947.13171
1949	1.21183E-11	7.52501E-10	50373.73377
1950	4.2156E-09	1.19538E-08	4280.150374
1951	1.39682E-18	3.74092E-14	37288393.05
1952	2.91698E-10	4.75635E-10	13256.58181
1953	1.73607E-09	5.51545E-09	6236.739668
1954	2.38414E-14	2.87155E-09	598806.2958
1955	6.39337E-14	6.52831E-12	448640.1202
1956	3.27706E-09	4.19079E-10	4764.70499
1957	3.12927E-12	7.51268E-10	88524.10399
1958	4.31024E-11	1.91397E-07	27556.42845
1959	3.45135E-09	2.78588E-10	4661.037211
1960	3.11151E-19	3.91087E-10	46609559.92
1961	5.51332E-13	3.22771E-12	183267.2144
1962	2.63423E-12	1.78636E-10	95377.88558
1963	2.41702E-16	9.62381E-11	4037631.587
1964	1.49189E-19	2.66457E-10	62932717.04
1965	3.91482E-11	8.37295E-11	30853.89715
1966	3.58242E-14	7.26605E-12	570304.6752
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1968	2.63593E-11	3.45157E-08	35423.35687
1969	1.587E-11	1.90444E-08	44019.08712
1970	2.44778E-19	1.48234E-14	75928598.98
1971	3.42816E-19	2.36641E-14	65949398.4
1972	3.61525E-11	1.02503E-08	31655.31206
1973	6.85734E-20	1.59219E-11	99301153.02
1974	2.23818E-09	2.90314E-08	5595.245189
1975	4.5379E-19	9.31093E-15	59412025.28

1976	7.7252E-13	3.61581E-10	158459.2178
1977	2.08285E-16	2.63049E-11	4483874.895
1978	8.35703E-15	7.8297E-12	1040237.095
1979	1.28845E-15	1.30468E-11	2220286.432
1980	4.75205E-14	5.20101E-09	447199.742
1981	2.13859E-12	3.56525E-11	104129.9957
1982	2.65355E-13	8.19553E-08	199193.7568
1983	5.6451E-11	4.9685E-10	26453.06883
1984	8.33477E-13	1.71297E-11	154255.6281
1985	3.64561E-14	8.52815E-13	566713.6044
1986	1.09473E-12	4.90935E-10	137001.284
1987	2.47508E-19	1.01164E-10	55344895
1988	1.37864E-19	1.38603E-14	95640209.99
1989	3.54891E-14	2.38076E-09	518522.3348
1990	1.75309E-09	1.15922E-07	6180.533668
1991	7.14587E-14	6.81858E-09	377682.6512
1992	1.6039E-14	3.26915E-11	790292.9564
1993	1.93294E-14	4.42974E-09	634984.9831
1994	3.24736E-17	7.10789E-11	8832872.74
1995	1.67465E-17	3.47428E-13	13376707.05
1996	6.36753E-14	2.13365E-08	370648.5262
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1998	3.46013E-17	9.12341E-11	8526589.867
1999	8.73982E-12	1.27569E-07	51950.10172
2000	1.72219E-10	4.24444E-10	16551.88474
2001	2.75702E-10	1.02354E-06	12395.47794
2002	1.14059E-12	3.18457E-11	135334.195
2003	1.90173E-12	2.91639E-08	100254.5235
2004	8.52108E-10	2.41307E-07	8290.689816
2005	4.89356E-11	1.51225E-07	26483.25265
2006	1.07765E-12	4.55819E-11	138551.5648
2007	2.90058E-17	7.65368E-12	10043715.49
2008	9.05264E-20	5.40178E-12	93853827.34
2009	4.85057E-11	1.2633E-10	28198.77819
2010	3.28962E-13	3.46728E-12	227210.6996
2011	9.8464E-11	5.30164E-08	20575.30916
2012	2.31646E-18	9.07835E-11	23891353.93
2013	1.68978E-14	7.69438E-09	648641.8236
2014	5.87438E-14	8.42066E-08	348077.019
2015	4.12724E-13	4.61639E-09	195278.7601
2016	2.57641E-17	1.01035E-12	11082045.27
2017	4.52567E-12	3.23179E-09	75311.01035
2018	3.17015E-18	4.55223E-14	26712163.45

2019	1.35923E-19	8.03299E-13	86433958.22
2020	6.95379E-19	1.35962E-12	45164512.62
2021	2.22661E-15	2.0264E-09	1502233.118
2022	5.69518E-16	4.66465E-13	3164649.986
2023	9.33092E-13	7.91274E-08	124620.5469
2024	4.54945E-12	2.95081E-09	75215.60233
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2026	1.43574E-16	1.24118E-12	5538936.937
2027	1.11204E-10	2.10791E-07	18935.27384
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2029	4.24184E-11	4.64012E-10	29824.21305
2030	6.39836E-14	7.41123E-13	448740.5113
2031	6.57269E-10	5.11926E-11	9409.160912
2032	5.3032E-12	7.76244E-10	71091.20388
2033	7.89673E-13	6.75311E-10	156416.7921
2034	2.99472E-19	1.33296E-14	70092293.81
2035	2.83231E-15	9.86341E-13	1631748.018
2036	4.03675E-16	2.34365E-10	3194598.575
2037	3.57225E-15	1.54461E-09	1272764.507
2038	2.46019E-14	1.95593E-11	664759.3308
2039	1.4712E-17	2.25147E-14	14293112.31
2040	3.31706E-11	1.52927E-09	33033.83893
2041	1.04838E-14	3.6088E-13	950041.6468
2042	1.21006E-13	2.41031E-12	344364.8395
2043	4.59732E-18	2.2791E-13	22597346.6
2044	2.2562E-19	1.48672E-14	78450748.47
2045	2.97505E-09	1.51703E-10	4964.371661
2046	4.78059E-17	1.1875E-09	6598780.226
2047	2.20345E-12	1.76302E-11	102852.2934
2048	5.73588E-15	4.02112E-12	1216912.282

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