

Wykaz współrzędnych punktów załamania granicy Spalsko – Sulejowskiego Obszaru Chronionego Krajobrazu w układzie WGS 84

lp.	długość geograficzna	szerokość geograficzna
1	20.1249	51.5532
2	20.1249	51.5535
3	20.1249	51.5536
4	20.1250	51.5538
5	20.1250	51.5539
6	20.1250	51.5557
7	20.1251	51.5560
8	20.1252	51.5568
9	20.1252	51.5574
10	20.1253	51.5582
11	20.1253	51.5587
12	20.1254	51.5598
13	20.1256	51.5610
14	20.1259	51.5638
15	20.1261	51.5659
16	20.1262	51.5677
17	20.1263	51.5684
18	20.1264	51.5691
19	20.1268	51.5702
20	20.1265	51.5701
21	20.1265	51.5702
22	20.1265	51.5705
23	20.1267	51.5729
24	20.1270	51.5748
25	20.1272	51.5771
26	20.1273	51.5776
27	20.1274	51.5785
28	20.1274	51.5795
29	20.1276	51.5809
30	20.1276	51.5815
31	20.1277	51.5821
32	20.1274	51.5821
33	20.1260	51.5826
34	20.1253	51.5829
35	20.1250	51.5830
36	20.1249	51.5830
37	20.1246	51.5831
38	20.1243	51.5832
39	20.1241	51.5832
40	20.1239	51.5833
41	20.1238	51.5833
42	20.1217	51.5840
43	20.1209	51.5843
44	20.1205	51.5844
45	20.1177	51.5854
46	20.1164	51.5858
47	20.1153	51.5862
48	20.1154	51.5866
49	20.1158	51.5898

50	20.1163	51.5931
51	20.1164	51.5946
52	20.1164	51.5948
53	20.1164	51.5949
54	20.1165	51.5951
55	20.1165	51.5956
56	20.1166	51.5962
57	20.1166	51.5966
58	20.1168	51.5979
59	20.1129	51.5987
60	20.1128	51.5988
61	20.1127	51.5999
62	20.1126	51.6011
63	20.1113	51.6131
64	20.1114	51.6132
65	20.1226	51.6148
66	20.1229	51.6148
67	20.1228	51.6150
68	20.1188	51.6200
69	20.1168	51.6197
70	20.1167	51.6212
71	20.1166	51.6217
72	20.1166	51.6219
73	20.1165	51.6223
74	20.1164	51.6229
75	20.1163	51.6244
76	20.1162	51.6247
77	20.1161	51.6248
78	20.1160	51.6249
79	20.1158	51.6250
80	20.1159	51.6252
81	20.1159	51.6253
82	20.1160	51.6254
83	20.1162	51.6255
84	20.1158	51.6255
85	20.1158	51.6259
86	20.1160	51.6264
87	20.1162	51.6266
88	20.1163	51.6267
89	20.1162	51.6268
90	20.1160	51.6269
91	20.1155	51.6269
92	20.1148	51.6271
93	20.1015	51.6288
94	20.1168	51.6360
95	20.1172	51.6357
96	20.1205	51.6333
97	20.1222	51.6319
98	20.1235	51.6308
99	20.1260	51.6287
100	20.1296	51.6259

101	20.1356	51.6212
102	20.1387	51.6229
103	20.1399	51.6235
104	20.1409	51.6241
105	20.1418	51.6245
106	20.1419	51.6246
107	20.1426	51.6241
108	20.1428	51.6239
109	20.1429	51.6237
110	20.1431	51.6235
111	20.1435	51.6232
112	20.1440	51.6227
113	20.1448	51.6218
114	20.1472	51.6222
115	20.1489	51.6224
116	20.1501	51.6225
117	20.1511	51.6226
118	20.1513	51.6226
119	20.1522	51.6222
120	20.1524	51.6222
121	20.1525	51.6222
122	20.1527	51.6223
123	20.1504	51.6286
124	20.1506	51.6286
125	20.1511	51.6286
126	20.1521	51.6285
127	20.1532	51.6285
128	20.1546	51.6284
129	20.1551	51.6283
130	20.1578	51.6282
131	20.1582	51.6269
132	20.1584	51.6263
133	20.1585	51.6260
134	20.1586	51.6259
135	20.1593	51.6257
136	20.1597	51.6257
137	20.1597	51.6257
138	20.1604	51.6256
139	20.1607	51.6255
140	20.1611	51.6250
141	20.1612	51.6248
142	20.1613	51.6247
143	20.1614	51.6246
144	20.1616	51.6246
145	20.1621	51.6245
146	20.1665	51.6239
147	20.1675	51.6238
148	20.1679	51.6238
149	20.1691	51.6237
150	20.1702	51.6235
151	20.1707	51.6235
152	20.1725	51.6233
153	20.1727	51.6232
154	20.1733	51.6232
155	20.1739	51.6231

156	20.1795	51.6225
157	20.1819	51.6219
158	20.1845	51.6201
159	20.1856	51.6191
160	20.1859	51.6189
161	20.1874	51.6178
162	20.1878	51.6179
163	20.1883	51.6179
164	20.1886	51.6180
165	20.1895	51.6179
166	20.1908	51.6179
167	20.1916	51.6179
168	20.1926	51.6179
169	20.1935	51.6178
170	20.1939	51.6177
171	20.1944	51.6176
172	20.1947	51.6175
173	20.1949	51.6175
174	20.1951	51.6174
175	20.1952	51.6174
176	20.1954	51.6173
177	20.1957	51.6173
178	20.1959	51.6173
179	20.1962	51.6173
180	20.1963	51.6172
181	20.1964	51.6171
182	20.1969	51.6170
183	20.1978	51.6168
184	20.1981	51.6167
185	20.1987	51.6168
186	20.1990	51.6168
187	20.1993	51.6169
188	20.1995	51.6169
189	20.2002	51.6171
190	20.2026	51.6179
191	20.2032	51.6182
192	20.2035	51.6182
193	20.2057	51.6184
194	20.2061	51.6185
195	20.2066	51.6185
196	20.2075	51.6186
197	20.2033	51.6246
198	20.2019	51.6244
199	20.2015	51.6259
200	20.2013	51.6269
201	20.2011	51.6275
202	20.2010	51.6282
203	20.2004	51.6302
204	20.2003	51.6308
205	20.2003	51.6312
206	20.2004	51.6317
207	20.2005	51.6321
208	20.2008	51.6326
209	20.2008	51.6328
210	20.2007	51.6334

211	20.2005	51.6340
212	20.2005	51.6343
213	20.2171	51.6306
214	20.2176	51.6306
215	20.2229	51.6310
216	20.2268	51.6305
217	20.2274	51.6304
218	20.2368	51.6279
219	20.2390	51.6287
220	20.2403	51.6289
221	20.2408	51.6290
222	20.2411	51.6292
223	20.2415	51.6296
224	20.2426	51.6295
225	20.2430	51.6296
226	20.2436	51.6297
227	20.2438	51.6296
228	20.2439	51.6295
229	20.2440	51.6294
230	20.2443	51.6291
231	20.2444	51.6289
232	20.2447	51.6284
233	20.2449	51.6276
234	20.2451	51.6270
235	20.2452	51.6267
236	20.2452	51.6265
237	20.2454	51.6262
238	20.2457	51.6254
239	20.2457	51.6252
240	20.2462	51.6235
241	20.2467	51.6225
242	20.2470	51.6219
243	20.2471	51.6213
244	20.2472	51.6209
245	20.2477	51.6195
246	20.2479	51.6189
247	20.2482	51.6179
248	20.2486	51.6169
249	20.2492	51.6151
250	20.2495	51.6141
251	20.2536	51.6134
252	20.2538	51.6134
253	20.2541	51.6133
254	20.2508	51.6062
255	20.2521	51.6059
256	20.2520	51.6057
257	20.2720	51.6023
258	20.2713	51.5995
259	20.2715	51.5993
260	20.2716	51.5991
261	20.2717	51.5984
262	20.2717	51.5980
263	20.2724	51.5940
264	20.2724	51.5938
265	20.2723	51.5938

266	20.2722	51.5938
267	20.2720	51.5938
268	20.2720	51.5937
269	20.2719	51.5937
270	20.2721	51.5932
271	20.2722	51.5929
272	20.2722	51.5926
273	20.2722	51.5924
274	20.2721	51.5923
275	20.2721	51.5922
276	20.2715	51.5920
277	20.2713	51.5920
278	20.2698	51.5916
279	20.2694	51.5914
280	20.2632	51.5881
281	20.2630	51.5881
282	20.2631	51.5880
283	20.2631	51.5879
284	20.2648	51.5847
285	20.2605	51.5824
286	20.2438	51.5745
287	20.2449	51.5725
288	20.2524	51.5761
289	20.2530	51.5763
290	20.2565	51.5776
291	20.2666	51.5813
292	20.2667	51.5812
293	20.2668	51.5809
294	20.2671	51.5803
295	20.2868	51.5855
296	20.2859	51.5838
297	20.2873	51.5838
298	20.2888	51.5868
299	20.2929	51.5869
300	20.2948	51.5870
301	20.3074	51.5877
302	20.3066	51.5908
303	20.3105	51.5938
304	20.3464	51.5967
305	20.3674	51.5983
306	20.3684	51.5984
307	20.3803	51.6014
308	20.3807	51.6015
309	20.3824	51.6025
310	20.3828	51.6027
311	20.3830	51.6029
312	20.3849	51.6051
313	20.3857	51.6060
314	20.3859	51.6062
315	20.3865	51.6065
316	20.3875	51.6069
317	20.4051	51.6136
318	20.4106	51.6153
319	20.4111	51.6155
320	20.4122	51.6157

321	20.4206	51.6175
322	20.4211	51.6168
323	20.4126	51.6143
324	20.4068	51.6123
325	20.4056	51.6116
326	20.4045	51.6111
327	20.4037	51.6111
328	20.3974	51.6083
329	20.4009	51.6100
330	20.3963	51.6068
331	20.3957	51.6068
332	20.3950	51.6058
333	20.3941	51.6043
334	20.3935	51.6038
335	20.3925	51.6036
336	20.3896	51.6036
337	20.3844	51.6008
338	20.3814	51.6001
339	20.3802	51.6007
340	20.3793	51.6008
341	20.3784	51.6004
342	20.3770	51.5999
343	20.3764	51.6002
344	20.3725	51.5991
345	20.3645	51.5971
346	20.3628	51.5966
347	20.3519	51.5926
348	20.3522	51.5909
349	20.3529	51.5900
350	20.3524	51.5898
351	20.3448	51.5896
352	20.3428	51.5898
353	20.3414	51.5902
354	20.3384	51.5904
355	20.3378	51.5887
356	20.3364	51.5885
357	20.3307	51.5880
358	20.3232	51.5875
359	20.3196	51.5872
360	20.3126	51.5864
361	20.3087	51.5854
362	20.3056	51.5842
363	20.3023	51.5839
364	20.2999	51.5840
365	20.3003	51.5815
366	20.2879	51.5783
367	20.2826	51.5770
368	20.2795	51.5806
369	20.2576	51.5755
370	20.2565	51.5744
371	20.2547	51.5716
372	20.2503	51.5705
373	20.2496	51.5706
374	20.2470	51.5698
375	20.2468	51.5693

376	20.2463	51.5693
377	20.2460	51.5690
378	20.2438	51.5682
379	20.2431	51.5686
380	20.2410	51.5683
381	20.2393	51.5687
382	20.2385	51.5687
383	20.2366	51.5694
384	20.2357	51.5710
385	20.2342	51.5777
386	20.2090	51.5786
387	20.2054	51.5788
388	20.2015	51.5789
389	20.1975	51.5791
390	20.1833	51.5797
391	20.1514	51.5810
392	20.1477	51.5485
393	20.1466	51.5477
394	20.1466	51.5472
395	20.1461	51.5468
396	20.1457	51.5459
397	20.1454	51.5451
398	20.1455	51.5439
399	20.1454	51.5423
400	20.1445	51.5418
401	20.1430	51.5412
402	20.1420	51.5409
403	20.1418	51.5403
404	20.1405	51.5405
405	20.1397	51.5393
406	20.1396	51.5387
407	20.1387	51.5391
408	20.1384	51.5389
409	20.1380	51.5388
410	20.1363	51.5390
411	20.1360	51.5389
412	20.1355	51.5386
413	20.1344	51.5386
414	20.1328	51.5388
415	20.1312	51.5392
416	20.1290	51.5393
417	20.1278	51.5394
418	20.1277	51.5399
419	20.1275	51.5415
420	20.1275	51.5420
421	20.1273	51.5450
422	20.1272	51.5462
423	20.1273	51.5478
424	20.0971	51.5508
425	20.0943	51.5508
426	20.0909	51.5456
427	20.0794	51.5468
428	20.0795	51.5452
429	20.0791	51.5394
430	20.0789	51.5389

431	20.0812	51.5334
432	20.0828	51.5334
433	20.0840	51.5329
434	20.0898	51.5323
435	20.0941	51.5314
436	20.0970	51.5312
437	20.1001	51.5307
438	20.1002	51.5305
439	20.0999	51.5303
440	20.0994	51.5293
441	20.0988	51.5285
442	20.0980	51.5279
443	20.0977	51.5276
444	20.0975	51.5257
445	20.0980	51.5246
446	20.0991	51.5237
447	20.0996	51.5229
448	20.0990	51.5208
449	20.1034	51.5202
450	20.1063	51.5197
451	20.1129	51.5181
452	20.1217	51.5152
453	20.1317	51.5116
454	20.1372	51.5087
455	20.1404	51.5059
456	20.1432	51.5029
457	20.1439	51.5015
458	20.1440	51.5015
459	20.1447	51.5013
460	20.1474	51.5057
461	20.1484	51.5053
462	20.1491	51.5055
463	20.1492	51.5060
464	20.1503	51.5066
465	20.1502	51.5078
466	20.1503	51.5090
467	20.1497	51.5094
468	20.1506	51.5110
469	20.1513	51.5108
470	20.1525	51.5109
471	20.1529	51.5106
472	20.1529	51.5101
473	20.1530	51.5099
474	20.1534	51.5099
475	20.1541	51.5101
476	20.1550	51.5102
477	20.1558	51.5101
478	20.1561	51.5099
479	20.1561	51.5097
480	20.1563	51.5096
481	20.1569	51.5097
482	20.1585	51.5094
483	20.1629	51.5090
484	20.1722	51.5091
485	20.1706	51.5064

486	20.1801	51.5078
487	20.1849	51.5095
488	20.1861	51.5079
489	20.1876	51.5066
490	20.1884	51.5039
491	20.1890	51.5028
492	20.1911	51.5009
493	20.1927	51.5005
494	20.1945	51.4983
495	20.1968	51.4965
496	20.2014	51.4941
497	20.2028	51.4938
498	20.2032	51.4942
499	20.2037	51.4953
500	20.2050	51.4962
501	20.2063	51.4964
502	20.2086	51.4962
503	20.2212	51.4949
504	20.2233	51.4938
505	20.2262	51.4935
506	20.2293	51.4940
507	20.2341	51.4943
508	20.2370	51.4939
509	20.2420	51.4928
510	20.2582	51.4923
511	20.2678	51.4955
512	20.2697	51.4966
513	20.2867	51.5113
514	20.2930	51.5150
515	20.2880	51.5167
516	20.3086	51.5246
517	20.3158	51.5248
518	20.3226	51.5245
519	20.3291	51.5241
520	20.3312	51.5243
521	20.3320	51.5254
522	20.3338	51.5274
523	20.3336	51.5280
524	20.3353	51.5285
525	20.3361	51.5284
526	20.3366	51.5288
527	20.3374	51.5289
528	20.3380	51.5301
529	20.3385	51.5301
530	20.3388	51.5309
531	20.3373	51.5311
532	20.3365	51.5300
533	20.3352	51.5302
534	20.3347	51.5292
535	20.3334	51.5287
536	20.3353	51.5325
537	20.3378	51.5331
538	20.3387	51.5332
539	20.3486	51.5321
540	20.3495	51.5335

541	20.3508	51.5348
542	20.3493	51.5393
543	20.3507	51.5392
544	20.3525	51.5396
545	20.3525	51.5398
546	20.3529	51.5399
547	20.3536	51.5403
548	20.3545	51.5400
549	20.3554	51.5395
550	20.3556	51.5395
551	20.3567	51.5387
552	20.3571	51.5385
553	20.3576	51.5382
554	20.3578	51.5386
555	20.3581	51.5389
556	20.3584	51.5390
557	20.3600	51.5393
558	20.3607	51.5398
559	20.3616	51.5403
560	20.3615	51.5409
561	20.3612	51.5409
562	20.3611	51.5415
563	20.3624	51.5414
564	20.3635	51.5434
565	20.3653	51.5473
566	20.3726	51.5535
567	20.3927	51.5778
568	20.4172	51.5946
569	20.4262	51.5987
570	20.4277	51.5999
571	20.4281	51.5998
572	20.4281	51.5997
573	20.4296	51.5994
574	20.4300	51.5986
575	20.4303	51.5970
576	20.4310	51.5965
577	20.4322	51.5952
578	20.4327	51.5945
579	20.4333	51.5931
580	20.4337	51.5907
581	20.4337	51.5906
582	20.4337	51.5904
583	20.4338	51.5902
584	20.4338	51.5901
585	20.4340	51.5892
586	20.4341	51.5892
587	20.4356	51.5871
588	20.4356	51.5870
589	20.4357	51.5868
590	20.4365	51.5854
591	20.4371	51.5845
592	20.4373	51.5840
593	20.4373	51.5837
594	20.4374	51.5835
595	20.4375	51.5832

596	20.4376	51.5830
597	20.4378	51.5823
598	20.4366	51.5813
599	20.4363	51.5809
600	20.4362	51.5806
601	20.4360	51.5807
602	20.4358	51.5807
603	20.4357	51.5805
604	20.4357	51.5798
605	20.4357	51.5797
606	20.4357	51.5795
607	20.4355	51.5789
608	20.4353	51.5786
609	20.4353	51.5782
610	20.4353	51.5779
611	20.4353	51.5777
612	20.4353	51.5773
613	20.4346	51.5772
614	20.4333	51.5753
615	20.4363	51.5738
616	20.4364	51.5736
617	20.0436	51.5736
618	20.4370	51.5732
619	20.4373	51.5731
620	20.4377	51.5728
621	20.4382	51.5725
622	20.4384	51.5724
623	20.4387	51.5723
624	20.4396	51.5721
625	20.4403	51.5718
626	20.4406	51.5717
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638	20.4441	51.5720
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641	20.4455	51.5723
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646	20.4477	51.5726
647	20.4479	51.5726
648	20.4481	51.5727
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703	20.4674	51.5609
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732	20.4592	51.5480
733	20.4592	51.5479
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735	20.4590	51.5473
736	20.4592	51.5471
737	20.4592	51.5469
738	20.4581	51.5461
739	20.4576	51.5458
740	20.4568	51.5449
741	20.4568	51.5449
742	20.4562	51.5435
743	20.4556	51.5423
744	20.4574	51.5419
745	20.4576	51.5415
746	20.4576	51.5414
747	20.4576	51.5412
748	20.4576	51.5411
749	20.4575	51.5410
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754	20.4565	51.5392
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768	20.4560	51.5368
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838	20.4518	51.5053
839	20.4522	51.5048
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841	20.4524	51.5038
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861	20.4734	51.5014
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863	20.4740	51.5014
864	20.4741	51.5014
865	20.4742	51.5014
866	20.4752	51.5013
867	20.4756	51.5013
868	20.4760	51.5013
869	20.4773	51.5012
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873	20.4798	51.5015
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875	20.4816	51.5015
876	20.4823	51.5015
877	20.4823	51.5013
878	20.4836	51.5012
879	20.4838	51.5012
880	20.4840	51.5012
881	20.4844	51.5012
882	20.4854	51.5012
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886	20.4882	51.5004
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891	20.4913	51.5003
892	20.4926	51.5002
893	20.4945	51.5003
894	20.4944	51.5010
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897	20.4957	51.5029
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901	20.5009	51.5032
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925	20.5257	51.4824

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1255	20.3201	51.3783

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1257	20.3201	51.3785
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1815	20.0478	51.4089
1816	20.0477	51.4087
1817	20.0475	51.4085
1818	20.0450	51.4087
1819	20.0448	51.4087
1820	20.0442	51.4095
1821	20.0442	51.4102
1822	20.0443	51.4106
1823	20.0445	51.4110
1824	20.0441	51.4109
1825	20.0438	51.4108
1826	20.0434	51.4108
1827	20.0373	51.4117
1828	20.0367	51.4119
1829	20.0365	51.4120
1830	20.0338	51.4117
1831	20.0328	51.4117
1832	20.0306	51.4119
1833	20.0291	51.4120
1834	20.0202	51.4135
1835	20.0178	51.4127
1836	20.0181	51.4113
1837	20.0183	51.4085
1838	20.0190	51.4076
1839	20.0193	51.4069
1840	20.0196	51.4063
1841	20.0198	51.4052
1842	20.0198	51.4050
1843	20.0197	51.4050
1844	20.0199	51.4030
1845	20.0199	51.4027
1846	20.0201	51.4023
1847	20.0201	51.4022
1848	20.0194	51.4026
1849	20.0174	51.4035
1850	20.0165	51.4035
1851	20.0158	51.4036
1852	20.0143	51.4035
1853	20.0100	51.4036
1854	20.0051	51.3949
1855	20.0050	51.3945
1856	20.0060	51.3880
1857	20.0060	51.3870
1858	20.0050	51.3733
1859	20.0048	51.3676
1860	20.0052	51.3636

1861	20.0059	51.3637
1862	20.0068	51.3637
1863	20.0080	51.3527
1864	19.9990	51.3526
1865	19.9981	51.3526
1866	19.9969	51.3526
1867	19.9930	51.3525
1868	19.9924	51.3526
1869	19.9911	51.3526
1870	19.9909	51.3526
1871	19.9905	51.3525
1872	19.9904	51.3525
1873	19.9903	51.3523
1874	19.9902	51.3501
1875	19.9898	51.3497
1876	19.9892	51.3491
1877	19.9884	51.3485
1878	19.9871	51.3474
1879	19.9862	51.3465
1880	19.9865	51.3467
1881	19.9858	51.3461
1882	19.9849	51.3457
1883	19.9840	51.3454
1884	19.9829	51.3450
1885	19.9828	51.3449
1886	19.9828	51.3444
1887	19.9827	51.3440
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1889	19.9826	51.3438
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1893	19.9823	51.3431
1894	19.9824	51.3429
1895	19.9827	51.3422
1896	19.9855	51.3397
1897	19.9857	51.3395
1898	19.9848	51.3395
1899	19.9866	51.3337
1900	19.9863	51.3337
1901	19.9856	51.3338
1902	19.9819	51.3343
1903	19.9828	51.3311
1904	19.9829	51.3309
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1906	19.9833	51.3306
1907	19.9859	51.3294
1908	19.9848	51.3280
1909	19.9849	51.3281
1910	19.9963	51.3222
1911	19.9975	51.3224
1912	20.0030	51.3159
1913	20.0037	51.3144
1914	20.0040	51.3123
1915	20.0098	51.3051

1916	20.0098	51.3015
1917	20.0119	51.2995
1918	20.0104	51.2969
1919	20.0090	51.2953
1920	20.0088	51.2945
1921	20.0076	51.2919
1922	19.9789	51.2929
1923	19.9721	51.2928
1924	19.9672	51.2926
1925	19.9654	51.2899
1926	19.9645	51.2883
1927	19.9618	51.2830
1928	19.9614	51.2785
1929	19.9596	51.2755
1930	19.9584	51.2739
1931	19.9569	51.2708
1932	19.9517	51.2616
1933	19.9516	51.2594
1934	19.9515	51.2590
1935	19.9508	51.2564
1936	19.9491	51.2509
1937	19.9484	51.2499
1938	19.9479	51.2495
1939	19.9510	51.2453
1940	19.9524	51.2411
1941	19.9553	51.2371
1942	19.9557	51.2365
1943	19.9523	51.2357
1944	19.9508	51.2349
1945	19.9485	51.2306
1946	19.9457	51.2265
1947	19.9449	51.2214
1948	19.9420	51.2164
1949	19.9397	51.2123
1950	19.9386	51.2103
1951	19.9372	51.2036
1952	19.9385	51.2036
1953	19.9381	51.2019
1954	19.9359	51.2001
1955	19.9344	51.1994
1956	19.9336	51.1992
1957	19.9313	51.1960
1958	19.9309	51.1954
1959	19.9293	51.1925
1960	19.9286	51.1875
1961	19.9294	51.1847
1962	19.9288	51.1841
1963	19.9268	51.1820
1964	19.9237	51.1737
1965	19.9222	51.1721
1966	19.9185	51.1705
1967	19.9172	51.1677
1968	19.9172	51.1676
1969	19.9162	51.1654
1970	19.9161	51.1614

1971	19.9153	51.1599
1972	19.9153	51.1585
1973	19.9156	51.1571
1974	19.9167	51.1560
1975	19.9184	51.1531
1976	19.9200	51.1526
1977	19.9207	51.1522
1978	19.9227	51.1424
1979	19.9138	51.1239
1980	19.9139	51.1227
1981	19.9129	51.1215
1982	19.9094	51.1138
1983	19.9092	51.1134
1984	19.9120	51.1107
1985	19.9125	51.1086
1986	19.9117	51.1080
1987	19.9052	51.1091
1988	19.9050	51.1089
1989	19.9045	51.1086
1990	19.9031	51.1077
1991	19.9027	51.1073
1992	19.9023	51.1068
1993	19.8989	51.1080
1994	19.8967	51.1081
1995	19.8958	51.1081
1996	19.8947	51.1081
1997	19.8940	51.1080
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2000	19.8904	51.1090
2001	19.8903	51.1090
2002	19.8893	51.1091
2003	19.8880	51.1092
2004	19.8853	51.1091
2005	19.8843	51.1089
2006	19.8841	51.1089
2007	19.8820	51.1090
2008	19.8814	51.1090
2009	19.8783	51.1094
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2013	19.8718	51.1110
2014	19.8717	51.1111
2015	19.8712	51.1112
2016	19.8705	51.1116
2017	19.8688	51.1124
2018	19.8677	51.1126
2019	19.8671	51.1127
2020	19.8666	51.1129
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2022	19.8572	51.1174
2023	19.8571	51.1175
2024	19.8568	51.1177
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2045	19.8297	51.1370
2046	19.8286	51.1382
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2062	19.8365	51.1458
2063	19.8370	51.1461
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2071	19.8492	51.1540
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2085	19.8517	51.1659
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2087	19.8517	51.1670
2088	19.8518	51.1670
2089	19.8520	51.1670
2090	19.8520	51.1669
2091	19.8530	51.1678
2092	19.8531	51.1677
2093	19.8533	51.1674
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2095	19.8562	51.1662
2096	19.8567	51.1661
2097	19.8578	51.1661
2098	19.8579	51.1660
2099	19.8588	51.1654
2100	19.8599	51.1650
2101	19.8613	51.1646
2102	19.8622	51.1643
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2105	19.8647	51.1638
2106	19.8618	51.1675
2107	19.8608	51.1712
2108	19.8551	51.1859
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2110	19.8541	51.1892
2111	19.8539	51.1900
2112	19.8539	51.1901
2113	19.8539	51.1902
2114	19.8491	51.1898
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2116	19.8450	51.1900
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2119	19.8373	51.1898
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2123	19.8289	51.1901
2124	19.8199	51.1890
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2126	19.8102	51.1852
2127	19.8096	51.1850
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2129	19.8092	51.1850
2130	19.8060	51.1856
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2133	19.8100	51.1977
2134	19.8102	51.1987
2135	19.8104	51.1996

2136	19.8106	51.2007
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2140	19.8017	51.2017
2141	19.8004	51.2018
2142	19.8003	51.2018
2143	19.8002	51.2019
2144	19.7983	51.2021
2145	19.7979	51.2021
2146	19.7957	51.2024
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2149	19.7879	51.2026
2150	19.7877	51.2024
2151	19.7876	51.2023
2152	19.7875	51.2022
2153	19.7873	51.2022
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2162	19.7798	51.2027
2163	19.7791	51.2027
2164	19.7783	51.2028
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2167	19.7748	51.2032
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2171	19.7695	51.2037
2172	19.7691	51.2038
2173	19.7689	51.2038
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2177	19.7705	51.2071
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2180	19.7710	51.2071
2181	19.7711	51.2071
2182	19.7712	51.2071
2183	19.7713	51.2072
2184	19.7715	51.2074
2185	19.7751	51.2140
2186	19.7755	51.2148
2187	19.7765	51.2166
2188	19.7766	51.2167
2189	19.7767	51.2168
2190	19.7768	51.2170

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2234	19.7482	51.2332
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2244	19.7349	51.2339
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2269	19.7291	51.2261
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2272	19.7272	51.2258
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2319	19.6849	51.1949
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2323	19.6885	51.1967
2324	19.6888	51.1969
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2993	20.0209	51.5119
2994	20.0212	51.5119
2995	20.0219	51.5119
2996	20.0224	51.5123
2997	20.0230	51.5127
2998	20.0236	51.5131
2999	20.0245	51.5134
3000	20.0249	51.5137
3001	20.0252	51.5139
3002	20.0256	51.5141
3003	20.0259	51.5143
3004	20.0261	51.5144
3005	20.0263	51.5144
3006	20.0266	51.5147
3007	20.0267	51.5148
3008	20.0266	51.5149
3009	20.0266	51.5150
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3011	20.0279	51.5143
3012	20.0281	51.5143
3013	20.0284	51.5142
3014	20.0287	51.5142
3015	20.0289	51.5141

3016	20.0291	51.5142
3017	20.0293	51.5142
3018	20.0299	51.5143
3019	20.0316	51.5148
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3027	20.0342	51.5147
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3034	20.0340	51.5132
3035	20.0323	51.5111
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3038	20.0322	51.5107
3039	20.0321	51.5105
3040	20.0322	51.5103
3041	20.0325	51.5091
3042	20.0322	51.5091
3043	20.0320	51.5090
3044	20.0317	51.5090
3045	20.0316	51.5091
3046	20.0313	51.5092
3047	20.0310	51.5092
3048	20.0307	51.5093
3049	20.0302	51.5093
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3053	20.0278	51.5090
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3055	20.0272	51.5092
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3061	20.0262	51.5086
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3065	20.0258	51.5082
3066	20.0257	51.5079
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3074	20.0266	51.5035
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3076	20.0252	51.5022
3077	20.0219	51.4988
3078	20.0205	51.4993
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3081	20.0195	51.4984
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3083	20.0190	51.4985
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3087	20.0171	51.4982
3088	20.0165	51.4978
3089	20.0171	51.4969
3090	20.0170	51.4967
3091	20.0169	51.4967
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3098	20.0146	51.4967
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3100	20.0144	51.4965
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3103	20.0140	51.4958
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3105	20.0137	51.4955
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3107	20.0135	51.4952
3108	20.0136	51.4951
3109	20.0136	51.4950
3110	20.0135	51.4950
3111	20.0132	51.4947
3112	20.0117	51.4946
3113	20.0113	51.4944
3114	20.0105	51.4939
3115	20.0100	51.4938
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3117	20.0077	51.4933
3118	20.0071	51.4933
3119	20.0069	51.4930
3120	20.0070	51.4927
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3123	20.0074	51.4923
3124	20.0075	51.4918
3125	20.0074	51.4917

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3127	20.0070	51.4916
3128	20.0069	51.4916
3129	20.0066	51.4915
3130	20.0069	51.4914
3131	20.0070	51.4914
3132	20.0074	51.4912
3133	20.0078	51.4911
3134	20.0086	51.4908
3135	20.0090	51.4906
3136	20.0120	51.4895
3137	20.0155	51.4883
3138	20.0159	51.4881
3139	20.0174	51.4874
3140	20.0180	51.4872
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3157	20.0296	51.4825
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3160	20.0300	51.4831
3161	20.0301	51.4831
3162	20.0302	51.4831
3163	20.0303	51.4831
3164	20.0311	51.4828
3165	20.0318	51.4826
3166	20.0317	51.4824
3167	20.0329	51.4821
3168	20.0371	51.4809
3169	20.0374	51.4808
3170	20.0382	51.4808
3171	20.0400	51.4808
3172	20.0408	51.4808
3173	20.0422	51.4793
3174	20.0432	51.4784
3175	20.0434	51.4783
3176	20.0436	51.4781
3177	20.0442	51.4780
3178	20.0446	51.4778
3179	20.0456	51.4774
3180	20.0459	51.4773

3181	20.0462	51.4770
3182	20.0469	51.4770
3183	20.0479	51.4768
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3185	20.0517	51.4763
3186	20.0589	51.4755
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3188	20.0696	51.4789
3189	20.0697	51.4790
3190	20.0698	51.4791
3191	20.0698	51.4793
3192	20.0699	51.4801
3193	20.0698	51.4808
3194	20.0697	51.4820
3195	20.0696	51.4827
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3198	20.0660	51.4901
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3201	20.0651	51.4920
3202	20.0655	51.4915
3203	20.0647	51.4925
3204	20.0652	51.4928
3205	20.0654	51.4929
3206	20.0656	51.4930
3207	20.0660	51.4935
3208	20.0662	51.4937
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3216	20.0711	51.4925
3217	20.0712	51.4925
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3246	20.0563	51.5258
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3267	20.0642	51.5358
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3269	20.0646	51.5362
3270	20.0648	51.5364
3271	20.0653	51.5368
3272	20.0658	51.5369
3273	20.0659	51.5369
3274	20.0665	51.5370
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3276	20.0668	51.5383
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3279	20.0677	51.5392
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3281	20.0681	51.5394
3282	20.0681	51.5397
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3286	20.0674	51.5398
3287	20.0673	51.5399
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3323	20.0896	51.5548
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3343	20.1036	51.5554
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3345	20.1056	51.5561

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3399	20.1277	51.5821
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3522	19.9921	51.4520
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3581	20.0044	51.4251
3582	20.0038	51.4245
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3587	20.0011	51.4167
3588	20.0020	51.4163
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3612	19.9902	51.3831
3613	19.9857	51.3837
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3616	19.9873	51.3865
3617	19.9839	51.3864
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4160	20.2004	51.5123
4161	20.2000	51.5127
4162	20.1998	51.5128
4163	20.1998	51.5133
4164	20.1996	51.5137
4165	20.1994	51.5140
4166	20.1988	51.5143
4167	20.1990	51.5146
4168	20.1988	51.5150
4169	20.1992	51.5156
4170	20.1983	51.5161

4171	20.1983	51.5166
4172	20.1997	51.5171
4173	20.2008	51.5171
4174	20.2011	51.5178
4175	20.2023	51.5189
4176	20.2035	51.5199
4177	20.2036	51.5221
4178	20.2020	51.5231
4179	20.2012	51.5240
4180	20.2005	51.5253
4181	20.2006	51.5260
4182	20.2028	51.5267
4183	20.2028	51.5275
4184	20.2004	51.5285
4185	20.1998	51.5286
4186	20.1973	51.5296
4187	20.1968	51.5297
4188	20.1961	51.5299
4189	20.1952	51.5311
4190	20.1941	51.5319
4191	20.1921	51.5339
4192	20.1909	51.5348
4193	20.1887	51.5362
4194	20.1868	51.5371
4195	20.1858	51.5371
4196	20.1813	51.5376
4197	20.1725	51.5448
4198	20.1706	51.5441
4199	20.1683	51.5460
4200	20.1690	51.5465
4201	20.1681	51.5470
4202	20.1705	51.5476
4203	20.1706	51.5486
4204	20.1712	51.5487
4205	20.1711	51.5490
4206	20.1701	51.5491
4207	20.1701	51.5495
4208	20.1637	51.5505
4209	20.1592	51.5517
4210	20.1580	51.5517
4211	20.1577	51.5522
4212	20.1565	51.5523
4213	20.1560	51.5520
4214	20.1547	51.5524
4215	20.2386	51.5533
4216	20.2392	51.5543
4217	20.2424	51.5548
4218	20.2484	51.5573
4219	20.2471	51.5584
4220	20.2466	51.5587
4221	20.2481	51.5594
4222	20.2494	51.5596
4223	20.2500	51.5590
4224	20.2521	51.5578
4225	20.2527	51.5589

4226	20.2543	51.5590
4227	20.2567	51.5602
4228	20.2583	51.5628
4229	20.2618	51.5600
4230	20.2663	51.5629
4231	20.2671	51.5631
4232	20.2682	51.5621
4233	20.2712	51.5617
4234	20.2710	51.5613
4235	20.2716	51.5608
4236	20.2737	51.5604
4237	20.2740	51.5602
4238	20.2741	51.5598
4239	20.2734	51.5596
4240	20.2736	51.5585
4241	20.2731	51.5582
4242	20.2717	51.5584
4243	20.2714	51.5582
4244	20.2725	51.5579
4245	20.2730	51.5574
4246	20.2725	51.5569
4247	20.2718	51.5567
4248	20.2716	51.5564
4249	20.2728	51.5559
4250	20.2728	51.5551
4251	20.2713	51.5543
4252	20.2702	51.5541
4253	20.2696	51.5531
4254	20.2689	51.5530
4255	20.2683	51.5534
4256	20.2680	51.5539
4257	20.2675	51.5539
4258	20.2667	51.5538
4259	20.2656	51.5540
4260	20.2647	51.5525
4261	20.2623	51.5511
4262	20.2636	51.5504
4263	20.2651	51.5500
4264	20.2662	51.5499
4265	20.2637	51.5480
4266	20.2600	51.5480
4267	20.2606	51.5487
4268	20.2601	51.5489
4269	20.2588	51.5482
4270	20.2558	51.5486
4271	20.2550	51.5480
4272	20.2542	51.5480
4273	20.2542	51.5484
4274	20.2517	51.5491
4275	20.2504	51.5492
4276	20.2499	51.5496
4277	20.2488	51.5490
4278	19.6821	51.3071
4279	19.6832	51.3069
4280	19.6855	51.3088

4281	19.6870	51.3092
4282	19.7019	51.3121
4283	19.6951	51.3107
4284	19.7033	51.3130
4285	19.7047	51.3135
4286	19.7063	51.3137
4287	19.7076	51.3143
4288	19.7081	51.3147
4289	19.7089	51.3151
4290	19.7094	51.3159
4291	19.7100	51.3164
4292	19.7103	51.3172
4293	19.7121	51.3189
4294	19.7142	51.3203
4295	19.7151	51.3209
4296	19.7172	51.3217
4297	19.7183	51.3218
4298	19.7188	51.3212
4299	19.7205	51.3220
4300	19.7240	51.3232
4301	19.7259	51.3239
4302	19.7294	51.3250
4303	19.7299	51.3251
4304	19.7301	51.3253
4305	19.7320	51.3254
4306	19.7325	51.3256
4307	19.7349	51.3276
4308	19.7345	51.3274
4309	19.7360	51.3280
4310	19.7363	51.3284
4311	19.7371	51.3292
4312	19.7375	51.3300
4313	19.7388	51.3307
4314	19.7393	51.3311
4315	19.7399	51.3318
4316	19.7426	51.3036
4317	19.7422	51.3031
4318	19.7367	51.3029
4319	19.7398	51.3015
4320	19.7445	51.2993
4321	19.7426	51.2972
4322	19.7421	51.2970
4323	19.7418	51.2970
4324	19.7412	51.2965
4325	19.7410	51.2965
4326	19.7403	51.2959
4327	19.7398	51.2965
4328	19.7390	51.2959
4329	19.7387	51.2962
4330	19.7384	51.2960
4331	19.7382	51.2956
4332	19.7382	51.2949
4333	19.7370	51.2936
4334	19.7352	51.2938
4335	19.7348	51.2935

4336	19.7367	51.2932
4337	19.7361	51.2925
4338	19.7349	51.2927
4339	19.7332	51.2934
4340	19.7318	51.2926
4341	19.7301	51.2921
4342	19.7289	51.2923
4343	19.7280	51.2882
4344	19.7212	51.2913
4345	19.7195	51.2917
4346	19.7176	51.2878
4347	19.7131	51.2792
4348	19.7127	51.2791
4349	19.7123	51.2782
4350	19.7107	51.2781
4351	19.7090	51.2783
4352	19.7074	51.2785
4353	19.7075	51.2775
4354	19.7084	51.2774
4355	19.7085	51.2749
4356	19.7078	51.2750
4357	19.7059	51.2747
4358	19.7040	51.2748
4359	19.7028	51.2750
4360	19.7035	51.2744
4361	19.7048	51.2737
4362	19.7054	51.2733
4363	19.7069	51.2728
4364	19.7090	51.2721
4365	19.7101	51.2715
4366	19.7111	51.2705
4367	19.7118	51.2695
4368	19.7119	51.2688
4369	19.7137	51.2674
4370	19.7127	51.2683
4371	19.7146	51.2668
4372	19.7159	51.2661
4373	19.7164	51.2658
4374	19.7173	51.2653
4375	19.7177	51.2650
4376	19.7183	51.2648
4377	19.7191	51.2645
4378	19.7204	51.2638
4379	19.7211	51.2633
4380	19.7231	51.2621
4381	19.7264	51.2610
4382	19.7274	51.2606
4383	19.7284	51.2601
4384	19.7297	51.2593
4385	19.7298	51.2593
4386	19.7302	51.2586
4387	19.7310	51.2542
4388	19.7309	51.2540
4389	19.7312	51.2536
4390	19.7310	51.2522

4391	19.7314	51.2506
4392	19.7281	51.2507
4393	19.7282	51.2501
4394	19.7258	51.2495
4395	19.7247	51.2495
4396	19.7243	51.2494
4397	19.7230	51.2494
4398	19.7214	51.2497
4399	19.7203	51.2506
4400	19.7199	51.2507
4401	19.7190	51.2491
4402	19.7180	51.2479
4403	19.7175	51.2478
4404	19.7129	51.2494
4405	19.7077	51.2452
4406	19.7081	51.2449
4407	19.7067	51.2443
4408	19.6940	51.2424
4409	19.6914	51.2426
4410	19.6903	51.2404
4411	19.6903	51.2402
4412	19.6852	51.2398
4413	19.6859	51.2389
4414	19.6864	51.2381
4415	19.6784	51.2378
4416	19.6781	51.2370
4417	19.6770	51.2364
4418	19.6762	51.2363
4419	19.6757	51.2365
4420	19.6744	51.2367
4421	19.6722	51.2378
4422	19.6707	51.2379
4423	19.6696	51.2384
4424	19.6664	51.2385
4425	19.6687	51.2396
4426	19.6678	51.2397
4427	19.6673	51.2404
4428	19.6662	51.2406
4429	19.6652	51.2414
4430	19.6643	51.2415
4431	19.6629	51.2411
4432	19.6611	51.2412
4433	19.6612	51.2417
4434	19.6597	51.2418
4435	19.6579	51.2425
4436	19.6561	51.2442
4437	19.6565	51.2447
4438	19.6568	51.2461

4439	19.6567	51.2455
4440	19.6562	51.2467
4441	19.6564	51.2478
4442	19.6564	51.2471
4443	19.6562	51.2485
4444	19.6550	51.2494
4445	19.6547	51.2499
4446	19.6516	51.2526
4447	19.6511	51.2561
4448	19.6507	51.2583
4449	19.6461	51.2616
4450	19.6456	51.2619
4451	19.6457	51.2622
4452	19.6457	51.2619
4453	19.6462	51.2619
4454	19.6475	51.2624
4455	19.6488	51.2634
4456	19.6514	51.2634
4457	19.6520	51.2652
4458	19.6526	51.2693
4459	19.6571	51.2758
4460	19.6567	51.2759
4461	19.6579	51.2774
4462	19.6593	51.2784
4463	19.6598	51.2799
4464	19.6626	51.2801
4465	19.6637	51.2804
4466	19.6642	51.2804
4467	19.6688	51.2810
4468	19.6686	51.2816
4469	19.6686	51.2822
4470	19.6668	51.2828
4471	19.6657	51.2839
4472	19.6650	51.2852
4473	19.6649	51.2855
4474	19.6659	51.2881
4475	19.6670	51.2891
4476	19.6673	51.2896
4477	19.6690	51.2909
4478	19.6694	51.2918
4479	19.6718	51.2969
4480	19.6719	51.2982
4481	19.6732	51.3000
4482	19.6764	51.3017
4483	19.6758	51.3018