

## LEO COAT – Glass Coating

## PERFORMANCE TEST (2019 March)

## BALL ON DISC TEST

LOCATION Economic Affairs Bureau engineering support center 横浜市経済局工業技術支援センター  
 MACHINE Tribo measure  
 MACHINE Tribo parameters

##Acquisition ##static partner  
 ##radius : 5.00 [mm] ## -dimension : 6.00 [mm]  
 ##lin. speed : 5.24 [##cm/s] ## -geometry : Ball  
 ##normal load : 1.00 [N]  
 ##stop condit. : 942.48 [##m] ##environment  
 ## or mu > 2.00 ##temperature : 25.00 [<deg>c]  
 ## or mu > 2.01 ##atmosphere : Air  
 ## or mu > 2.02 ##humidity : 55.00 [%]

##start min max mean std. dev.  
 0.0724211 0.068341494 0.638537 0.417141557 0.205997

## RAW DATA

未施工				施工		
時間(s)	距離(m)	回転数	摩擦係数	時間(s)	距離(m)	回転数
1.001	0.094247788	3	0.267774254	1.001	0.062831856	2
2.0039999	0.125663713	4	0.259187162	2.004	0.125663713	4
3.007	0.188495576	6	0.263104677	3.007	0.188495576	6
4.0079999	0.251327425	8	0.255182326	4.011	0.219911501	7
5.0079999	0.282743365	9	0.263604969	5.014	0.282743365	9
6.0079999	0.345575213	11	0.267889768	6.014	0.345575213	11
7.0120001	0.408407062	13	0.262176991	7.018	0.376991153	12
8.0159998	0.439823002	14	0.269285679	8.02	0.439823002	14
9.0179996	0.50265485	16	0.271564662	9.023	0.50265485	16
10.019	0.565486729	18	0.264837772	10.027	0.565486729	18
11.022	0.628318548	20	0.27277723	11.03	0.596902668	19
12.025	0.659734488	21	0.275327921	12.033	0.659734488	21
13.029	0.722566366	23	0.267801255	13.033	0.722566366	23
14.032	0.785398245	25	0.276958793	14.035	0.753982306	24
15.035	0.816814125	26	0.279802203	15.038	0.816814125	26
16.038	0.879646003	28	0.272087455	16.042	0.879646003	28
17.041	0.942477882	30	0.281872153	17.045	0.911061943	29
18.045	0.973893821	31	0.284339368	18.048	0.973893821	31
19.048	1.03672564	33	0.275683522	19.051	1.03672564	33
20.052	1.099557519	35	0.286179215	20.054	1.06814158	34
21.056	1.130973458	36	0.288583577	21.057	1.130973458	36
22.059	1.193805337	38	0.278045952	22.061	1.193805337	38
23.059	1.256637096	40	0.290364116	23.064	1.225221276	39
24.062	1.288053036	41	0.291406006	24.068	1.288053036	41

25.066	1.350884914	43	0.281056672	25.07	1.350884914	43
26.069	1.413716793	45	0.292493194	26.073	1.382300854	44
27.072001	1.445132732	46	0.293496877	27.077	1.445132732	46
28.072001	1.507964611	48	0.282361627	28.08	1.507964611	48
29.075001	1.57079649	50	0.29560855	29.084	1.53938055	49
30.079	1.60221231	51	0.295232236	30.088	1.60221231	51
31.082001	1.665044188	53	0.283879399	31.091	1.665044188	53
32.084999	1.727876067	55	0.296842128	32.095	1.696460128	54
33.088001	1.759292006	56	0.296110421	33.098	1.759292006	56
34.091	1.822123885	58	0.284527481	34.102	1.822123885	58
35.092999	1.884955764	60	0.298347414	35.105	1.853539824	59
36.096001	1.916371703	61	0.298013002	36.108	1.916371703	61
37.098999	1.979203463	63	0.285614699	37.112	1.979203463	63
38.102001	2.042035341	65	0.298326582	38.115	2.010619402	64
39.105	2.073451281	66	0.298243076	39.117	2.073451281	66
40.106998	2.136283159	68	0.287600875	40.121	2.136283159	68
41.110001	2.199115038	70	0.299811035	41.124	2.167699099	69
42.112999	2.230530977	71	0.299518317	42.127	2.230530977	71
43.116001	2.293362856	73	0.288897038	43.13	2.293362856	73
44.119999	2.356194735	75	0.301128268	44.133	2.324778795	74
45.124001	2.387610674	76	0.301086485	45.137	2.387610674	76
46.125	2.450442553	78	0.291380525	46.14	2.450442553	78
47.129002	2.513274193	80	0.303386152	47.143	2.513274193	80
48.132	2.544690132	81	0.302591741	48.143	2.544690132	81
49.132	2.607522011	83	0.292800725	49.146	2.607522011	83
50.134998	2.670353889	85	0.304703414	50.15	2.670353889	85
51.139	2.701769829	86	0.303553492	51.154	2.701769829	86
52.141998	2.764601707	88	0.295357585	52.157	2.764601707	88
53.146	2.827433586	90	0.305539608	53.161	2.827433586	90
54.148998	2.890265465	92	0.3052679	54.165	2.858849525	91
55.153	2.921681404	93	0.297134787	55.168	2.921681404	93
56.155998	2.984513283	95	0.306355149	56.172	2.984513283	95
57.16	3.047345161	97	0.306877762	57.175	3.015929222	96
58.162998	3.078761101	98	0.299351066	58.177	3.078761101	98
59.162998	3.141592979	100	0.307503521	59.18	3.141592979	100
60.167	3.20442462	102	0.308550566	60.184	3.173008919	101
61.169998	3.235840559	103	0.301859856	61.187	3.235840559	103
62.173	3.298672438	105	0.308050603	62.19	3.298672438	105
63.175999	3.361504316	107	0.311310261	63.19	3.330088377	106
64.179001	3.392920256	108	0.30384627	64.193	3.392920256	108
65.181999	3.455752134	110	0.309156835	65.196	3.455752134	110
66.184998	3.518584013	112	0.313338161	66.199	3.487168074	111
67.186996	3.549999952	113	0.305957913	67.201	3.549999952	113
68.191002	3.612831831	115	0.310076714	68.204	3.612831831	115
69.194	3.67566371	117	0.315491855	69.207	3.64424777	116
70.196999	3.707079649	118	0.308466822	70.21	3.707079649	118
71.199997	3.769911528	120	0.310892016	71.212	3.769911528	120
72.203003	3.832743406	122	0.31779179	72.215	3.801327467	121
73.206001	3.864159346	123	0.310452968	73.218	3.864159346	123
74.209999	3.926990986	125	0.311059296	74.221	3.926990986	125
75.212997	3.989822865	127	0.319506019	75.224	3.958406925	126
76.217003	4.021238804	128	0.313254625	76.228	4.021238804	128

77.220001	4.084070683	130	0.312292814	77.231	4.084070683	130
78.223	4.146902561	132	0.322600484	78.234	4.115486622	131
79.225998	4.178318501	133	0.316432565	79.237	4.178318501	133
80.228996	4.241150379	135	0.312857389	80.24	4.241150379	135
81.232002	4.303982258	137	0.325255901	81.243	4.272566319	136
82.236	4.335398197	138	0.319150686	82.245	4.335398197	138
83.239998	4.398230076	140	0.314174652	83.248	4.398230076	140
84.242996	4.461061954	142	0.326928347	84.251	4.429646015	141
85.247002	4.492477894	143	0.322014898	85.254	4.492477894	143
86.249001	4.555309772	145	0.315261811	86.257	4.555309772	145
87.252998	4.618141651	147	0.330190092	87.26	4.586725712	146
88.255997	4.64955759	148	0.324147463	88.262	4.64955759	148
89.259003	4.712389469	150	0.316140056	89.265	4.712389469	150
90.263	4.775221348	152	0.332678169	90.269	4.775221348	152
91.265999	4.806637287	153	0.326614588	91.272	4.806637287	153
92.265999	4.869469166	155	0.318089485	92.275	4.869469166	155
93.268997	4.932301044	157	0.334455222	93.278	4.932301044	157
94.273003	4.995132446	159	0.328371018	94.281	4.963716507	158
95.276001	5.026548386	160	0.320217013	95.285	5.026548386	160
96.279999	5.089380264	162	0.337006003	96.288	5.089380264	162
97.282997	5.152212143	164	0.33123526	97.292	5.120796204	163
98.287003	5.183628082	165	0.322286844	98.295	5.183628082	165
99.290001	5.246459961	167	0.33949396	99.299	5.246459961	167
100.293	5.30929184	169	0.333660513	100.303	5.2778759	168
101.295	5.340707779	170	0.324482083	101.306	5.340707779	170
102.299	5.403539658	172	0.341250241	102.309	5.403539658	172
103.302	5.466371536	174	0.3356677	103.312	5.434955597	173
104.302	5.497787476	175	0.327079356	104.314	5.497787476	175
105.305	5.560619354	177	0.343278229	105.318	5.560619354	177
106.308	5.623451233	179	0.338887483	106.322	5.592035294	178
107.308	5.654867172	180	0.329599828	107.324	5.654867172	180
108.31	5.717699051	182	0.345787078	108.327	5.717699051	182
109.314	5.78053093	184	0.342002809	109.33	5.74911499	183
110.317	5.811946869	185	0.332573414	110.332	5.811946869	185
111.32	5.874778748	187	0.348254293	111.335	5.874778748	187
112.32	5.937610626	189	0.345814943	112.338	5.906194687	188
113.323	5.969026566	190	0.336901218	113.341	5.969026566	190
114.326	6.031858444	192	0.35168308	114.344	6.031858444	192
115.326	6.094690323	194	0.350519776	115.347	6.063274384	193
116.329	6.126106262	195	0.340539068	116.35	6.126106262	195
117.333	6.188938141	197	0.35534206	117.353	6.188938141	197
118.336	6.25177002	199	0.35452646	118.356	6.22035408	198
119.34	6.283185959	200	0.345285237	119.359	6.283185959	200
120.343	6.346017838	202	0.358540982	120.359	6.346017838	202
121.347	6.408849239	204	0.359419018	121.362	6.3774333	203
122.35	6.440265179	205	0.350485295	122.366	6.440265179	205
123.354	6.503097057	207	0.362408668	123.369	6.503097057	207
124.358	6.565928936	209	0.364248693	124.373	6.534512997	208
125.361	6.597344875	210	0.355216444	125.376	6.597344875	210
126.365	6.660176754	212	0.365628421	126.38	6.660176754	212
127.368	6.723008633	214	0.36895287	127.383	6.691592693	213
128.371	6.754424572	215	0.359209895	128.385	6.754424572	215

129.371	6.817256451	217	0.368226111	129.388	6.817256451	217
130.37399	6.880088329	219	0.373050869	130.391	6.880088329	219
131.377	6.911504269	220	0.363370419	131.394	6.911504269	220
132.38	6.974336147	222	0.370688379	132.397	6.974336147	222
133.383	7.037168026	224	0.377566904	133.4	7.037168026	224
134.386	7.068583965	225	0.365962982	134.402	7.068583965	225
135.38901	7.131415844	227	0.372548968	135.406	7.131415844	227
136.392	7.194247723	229	0.381183863	136.409	7.194247723	229
137.396	7.257079601	231	0.369663656	137.411	7.225663662	230
138.399	7.288495541	232	0.375413269	138.414	7.288495541	232
139.40199	7.351327419	234	0.38540715	139.417	7.351327419	234
140.40199	7.414159298	236	0.373057187	140.421	7.382743359	235
141.405	7.445575237	237	0.378486782	141.423	7.445575237	237
142.409	7.508407116	239	0.389735103	142.426	7.508407116	239
143.412	7.571238995	241	0.376960486	143.43	7.539823055	240
144.416	7.602654934	242	0.381664813	144.433	7.602654934	242
145.41901	7.665486813	244	0.393519521	145.437	7.665486813	244
146.423	7.728318691	246	0.385908961	146.441	7.696902752	245
147.42599	7.759734631	247	0.387895286	147.444	7.759734631	247
148.429	7.822566032	249	0.399122745	148.447	7.822566032	249
149.43201	7.885397911	251	0.386745393	149.449	7.853981972	250
150.435	7.91681385	252	0.388710648	150.453	7.91681385	252
151.438	7.979645729	254	0.40079537	151.455	7.979645729	254
152.442	8.042477608	256	0.389546812	152.458	8.011061668	255
153.44501	8.073893547	257	0.390535593	153.461	8.073893547	257
154.448	8.136725426	259	0.403576076	154.464	8.136725426	259
155.451	8.199557304	261	0.393477589	155.467	8.168141365	260
156.455	8.230973244	262	0.39412573	156.47	8.230973244	262
157.45799	8.293805122	264	0.40677467	157.473	8.293805122	264
158.46201	8.356637001	266	0.397303611	158.475	8.325221062	265
159.466	8.38805294	267	0.397387475	159.478	8.38805294	267
160.46899	8.450884819	269	0.40980649	160.481	8.450884819	269
161.47301	8.513716698	271	0.400983483	161.484	8.482300758	270
162.476	8.545132637	272	0.401004523	162.487	8.545132637	272
163.479	8.607964516	274	0.41168803	163.49	8.607964516	274
164.479	8.670796394	276	0.404353291	164.494	8.639380455	275
165.48199	8.702212334	277	0.403931499	165.498	8.702212334	277
166.485	8.765044212	279	0.415221602	166.501	8.765044212	279
167.489	8.827876091	281	0.408991009	167.505	8.796460152	280
168.491	8.85929203	282	0.409241915	168.508	8.85929203	282
169.494	8.922123909	284	0.418713152	169.512	8.922123909	284
170.494	8.984955788	286	0.413405925	170.515	8.984955788	286
171.498	9.016371727	287	0.413235366	171.519	9.016371727	287
172.502	9.079203606	289	0.421452314	172.522	9.079203606	289
173.502	9.142035484	291	0.417480797	173.524	9.142035484	291
174.50301	9.173451424	292	0.415653348	174.528	9.173451424	292
175.50301	9.236283302	294	0.423613876	175.531	9.236283302	294
176.50301	9.299115181	296	0.421219677	176.534	9.299115181	296
177.50301	9.33053112	297	0.419014007	177.537	9.33053112	297
178.50301	9.393362999	299	0.426428586	178.54	9.393362999	299
179.50301	9.456194878	301	0.424412131	179.543	9.456194878	301
180.504	9.487610817	302	0.421639711	180.547	9.487610817	302

181.504	9.550442696	304	0.428970009	181.55	9.550442696	304
182.507	9.613274574	306	0.42707628	182.553	9.613274574	306
183.507	9.644690514	307	0.423677027	183.555	9.644690514	307
184.511	9.707522392	309	0.430149764	184.559	9.707522392	309
185.515	9.770354271	311	0.430484116	185.563	9.770354271	311
186.515	9.83318615	313	0.426533461	186.567	9.80177021	312
187.519	9.864602089	314	0.432387054	187.57	9.864602089	314
188.52299	9.927433014	316	0.433494806	188.573	9.927433014	316
189.52699	9.990264893	318	0.429836094	189.577	9.958848953	317
190.52699	10.02168083	319	0.434662133	190.581	10.02168083	319
191.52699	10.08451271	321	0.436888427	191.584	10.08451271	321
192.53101	10.14734459	323	0.431885034	192.588	10.11592865	322
193.53101	10.17876053	324	0.436657637	193.591	10.17876053	324
194.534	10.24159241	326	0.439411849	194.593	10.24159241	326
195.534	10.30442429	328	0.434410214	195.596	10.27300835	327
196.534	10.33584023	329	0.439304233	196.599	10.33584023	329
197.534	10.3986721	331	0.441635579	197.602	10.3986721	331
198.534	10.46150398	333	0.436279446	198.605	10.43008804	332
199.534	10.49291992	334	0.441089571	199.608	10.49291992	334
200.534	10.5557518	336	0.4447442	200.611	10.5557518	336
201.53799	10.61858368	338	0.44020623	201.613	10.58716774	337
202.53799	10.64999962	339	0.443799108	202.617	10.64999962	339
203.54201	10.7128315	341	0.447649539	203.62	10.7128315	341
204.54601	10.77566338	343	0.443572402	204.622	10.74424744	342
205.55	10.80707932	344	0.447064221	205.625	10.80707932	344
206.554	10.86991119	346	0.451684862	206.625	10.86991119	346
207.554	10.93274307	348	0.447033554	207.628	10.90132713	347
208.55701	10.96415901	349	0.450451285	208.632	10.96415901	349
209.55701	11.02699089	351	0.454973489	209.635	11.02699089	351
210.561	11.08982277	353	0.45068115	210.639	11.08982277	353
211.565	11.12123871	354	0.453315556	211.642	11.12123871	354
212.565	11.18407059	356	0.458018959	212.646	11.18407059	356
213.569	11.24690247	358	0.453336447	213.649	11.24690247	358
214.573	11.27831841	359	0.456075191	214.649	11.27831841	359
215.576	11.34115028	361	0.460089803	215.652	11.34115028	361
216.577	11.40398216	363	0.455981553	216.656	11.40398216	363
217.577	11.4353981	364	0.457766801	217.659	11.4353981	364
218.577	11.49822998	366	0.462303609	218.662	11.49822998	366
219.577	11.56106186	368	0.458228737	219.665	11.56106186	368
220.577	11.5924778	369	0.460560203	220.668	11.5924778	369
221.577	11.65530968	371	0.464572042	221.67	11.65530968	371
222.577	11.71814156	373	0.461085588	222.673	11.71814156	373
223.577	11.7495575	374	0.462807685	223.676	11.7495575	374
224.577	11.81238937	376	0.466735512	224.68	11.81238937	376
225.58	11.87522125	378	0.464229584	225.683	11.87522125	378
226.58	11.90663719	379	0.466441393	226.686	11.90663719	379
227.58	11.96946907	381	0.470222116	227.689	11.96946907	381
228.584	12.03230095	383	0.467449516	228.692	12.03230095	383
229.588	12.06371689	384	0.469351768	229.694	12.06371689	384
230.592	12.12654877	386	0.472509027	230.697	12.12654877	386
231.595	12.18938065	388	0.470083684	231.701	12.18938065	388
232.595	12.22079659	389	0.471398503	232.704	12.22079659	389

233.595	12.28362846	391	0.474759072	233.708	12.28362846	391
234.599	12.34646034	393	0.473178178	234.711	12.34646034	393
235.601	12.37787628	394	0.473637909	235.715	12.37787628	394
236.605	12.44070816	396	0.476272166	236.719	12.44070816	396
237.608	12.50354004	398	0.476125896	237.722	12.50354004	398
238.61099	12.56637192	400	0.475289583	238.725	12.53495598	399
239.614	12.59778786	401	0.478760332	239.728	12.59778786	401
240.617	12.66061974	403	0.479408622	240.731	12.66061974	403
241.62	12.72345161	405	0.477610379	241.734	12.69203568	404
242.62	12.7548666	406	0.481166691	242.738	12.7548666	406
243.623	12.81769848	408	0.482314646	243.741	12.81769848	408
244.627	12.88053036	410	0.480683833	244.743	12.84911442	409
245.63	12.9119463	411	0.483652592	245.746	12.9119463	411
246.633	12.97477818	413	0.485597044	246.75	12.97477818	413
247.636	13.03761005	415	0.483276397	247.754	13.03761005	415
248.63901	13.06902599	416	0.486245394	248.756	13.06902599	416
249.64301	13.13185787	418	0.488105834	249.758	13.13185787	418
250.646	13.19468975	420	0.485722572	250.76	13.19468975	420
251.64999	13.22610569	421	0.488315374	251.762	13.22610569	421
252.653	13.28893757	423	0.491409242	252.764	13.28893757	423
253.657	13.35176945	425	0.489548475	253.766	13.35176945	425
254.661	13.38318539	426	0.491806597	254.768	13.38318539	426
255.664	13.44601727	428	0.494984657	255.77	13.44601727	428
256.668	13.50884914	430	0.491932124	256.773	13.50884914	430
257.67099	13.54026508	431	0.494231969	257.775	13.54026508	431
258.67499	13.60309696	433	0.498329818	258.777	13.60309696	433
259.67801	13.66592884	435	0.4945665	259.78	13.66592884	435
260.68201	13.69734478	436	0.49615559	260.783	13.69734478	436
261.685	13.76017666	438	0.500169635	261.784	13.76017666	438
262.685	13.82300854	440	0.497401327	262.787	13.82300854	440
263.689	13.85442448	441	0.499143988	263.79	13.85442448	441
264.69101	13.91725636	443	0.502741337	264.792	13.91725636	443
265.69101	13.98008823	445	0.500131726	265.795	13.98008823	445
266.694	14.01150417	446	0.501277864	266.798	14.01150417	446
267.69699	14.07433605	448	0.504832029	267.8	14.07433605	448
268.70001	14.13716793	450	0.502239525	268.802	14.13716793	450
269.70401	14.16858387	451	0.503514826	269.804	14.16858387	451
270.707	14.23141575	453	0.506232858	270.806	14.23141575	453
271.70999	14.29424763	455	0.503473163	271.808	14.29424763	455
272.71399	14.32566357	456	0.505333841	272.811	14.32566357	456
273.71701	14.38849545	458	0.507989049	273.812	14.38849545	458
274.72	14.45132732	460	0.505501151	274.814	14.45132732	460
275.72299	14.48274326	461	0.507884502	275.816	14.48274326	461
276.72601	14.54557514	463	0.509912491	276.818	14.54557514	463
277.73001	14.60840702	465	0.509348154	277.82	14.60840702	465
278.733	14.63982296	466	0.510937095	278.822	14.63982296	466
279.737	14.70265484	468	0.512086868	279.824	14.70265484	468
280.73999	14.76548672	470	0.512337863	280.827	14.76548672	470
281.74399	14.8283186	472	0.512484133	281.829	14.79690266	471
282.74701	14.85973454	473	0.514763057	282.831	14.85973454	473
283.75	14.92256641	475	0.515557647	283.833	14.92256641	475
284.75299	14.98539829	477	0.516101182	284.835	14.95398235	476

285.75601	15.01681423	478	0.517481387	285.837	15.01681423	478
286.758	15.07964611	480	0.519383967	286.839	15.07964611	480
287.76099	15.14247799	482	0.519300222	287.842	15.11106205	481
288.76401	15.17389393	483	0.520219982	288.844	15.17389393	483
289.767	15.23672581	485	0.522520065	289.847	15.23672581	485
290.76999	15.29955769	487	0.522143781	290.849	15.26814175	486
291.772	15.33097363	488	0.523711622	291.851	15.33097363	488
292.77499	15.3938055	490	0.525342703	292.853	15.3938055	490
293.77802	15.45663738	492	0.524924517	293.856	15.42522144	491
294.78	15.48805332	493	0.525488913	294.859	15.48805332	493
295.78299	15.5508852	495	0.527307868	295.861	15.5508852	495
296.785	15.61371613	497	0.526764393	296.864	15.61371613	497
297.78799	15.64513206	498	0.527684152	297.867	15.64513206	498
298.79099	15.70796394	500	0.530381382	298.869	15.70796394	500
299.79501	15.77079582	502	0.529022336	299.872	15.77079582	502
300.798	15.80221176	503	0.529775202	300.875	15.80221176	503
301.79999	15.86504364	505	0.532953084	301.876	15.86504364	505
302.80301	15.92787552	507	0.531238854	302.879	15.92787552	507
303.806	15.95929146	508	0.53276515	303.881	15.95929146	508
304.80899	16.02212334	510	0.535085618	304.883	16.02212334	510
305.811	16.08495522	512	0.532974124	305.885	16.08495522	512
306.814	16.11637115	513	0.534855783	306.887	16.11637115	513
307.81699	16.17920303	515	0.536967397	307.889	16.17920303	515
308.819	16.24203491	517	0.535085678	308.891	16.24203491	517
309.82199	16.27345085	518	0.537594795	309.892	16.27345085	518
310.82401	16.33628273	520	0.539769053	310.894	16.33628273	520
311.827	16.39911461	522	0.537573636	311.896	16.39911461	522
312.82901	16.43053055	523	0.540626407	312.898	16.43053055	523
313.83301	16.49336243	525	0.542006075	313.9	16.49336243	525
314.83499	16.55619431	527	0.539288282	314.903	16.55619431	527
315.83899	16.58761024	528	0.54257077	315.906	16.58761024	528
316.84201	16.65044212	530	0.543637216	316.907	16.65044212	530
317.845	16.713274	532	0.541190743	317.91	16.713274	532
318.84698	16.74468994	533	0.545309842	318.912	16.74468994	533
319.85001	16.80752182	535	0.546041608	319.915	16.80752182	535
320.853	16.8703537	537	0.544933379	320.918	16.8703537	537
321.85501	16.90176964	538	0.54811126	321.92	16.90176964	538
322.858	16.96460152	540	0.549010396	322.922	16.96460152	540
323.86099	17.0274334	542	0.548425198	323.924	17.0274334	542
324.86401	17.09026527	544	0.550139487	324.926	17.05884933	543
325.866	17.12168121	545	0.551477671	325.928	17.12168121	545
326.86899	17.18451309	547	0.551749229	326.93	17.18451309	547
327.87201	17.24734497	549	0.553422093	327.933	17.21592903	548
328.875	17.27876091	550	0.55398643	328.935	17.27876091	550
329.87799	17.34159279	552	0.553651929	329.936	17.34159279	552
330.88101	17.40442467	554	0.554738939	330.939	17.37300873	553
331.883	17.43584061	555	0.555387318	331.941	17.43584061	555
332.88599	17.49867249	557	0.555868328	332.943	17.49867249	557
333.888	17.56150436	559	0.556223452	333.945	17.53008842	558
334.89001	17.5929203	560	0.557185352	334.947	17.5929203	560
335.89301	17.65575218	562	0.557791591	335.949	17.65575218	562
336.89499	17.71858406	564	0.557917058	336.951	17.68716812	563

337.89801	17.75	565	0.559192419	337.953	17.75	565
338.901	17.81283188	567	0.560049593	338.955	17.81283188	567
339.90399	17.87566376	569	0.559464276	339.957	17.84424782	568
340.90799	17.9070797	570	0.560091615	340.959	17.9070797	570
341.91199	17.96991158	572	0.561722398	341.961	17.96991158	572
342.91501	18.03274345	574	0.561220586	342.964	18.03274345	574
343.91699	18.06415939	575	0.56239146	343.967	18.06415939	575
344.92001	18.12699127	577	0.564586639	344.969	18.12699127	577
345.923	18.18982315	579	0.563729525	345.973	18.18982315	579
346.927	18.22123909	580	0.564523816	346.975	18.22123909	580
347.92899	18.28407097	582	0.565966427	347.978	18.28407097	582
348.93201	18.34690285	584	0.565046489	348.98	18.34690285	584
349.936	18.37831879	585	0.565632164	349.983	18.37831879	585
350.939	18.44115067	587	0.567555606	350.985	18.44115067	587
351.94199	18.50398254	589	0.566572964	351.988	18.50398254	589
352.94501	18.53539848	590	0.567869067	352.99	18.53539848	590
353.948	18.59823036	592	0.569102705	353.993	18.59823036	592
354.95001	18.66106224	594	0.568161905	354.996	18.66106224	594
355.953	18.69247818	595	0.569500029	355.998	18.69247818	595
356.95599	18.75531006	597	0.570419848	357.001	18.75531006	597
357.95801	18.81814194	599	0.569604456	358.003	18.81814194	599
358.961	18.84955788	600	0.570670843	359.006	18.84955788	600
359.965	18.91238976	602	0.571841776	360.009	18.91238976	602
360.96799	18.97522163	604	0.570775211	361.012	18.97522163	604
361.97101	19.00663757	605	0.572322547	362.013	19.00663757	605
362.974	19.06946945	607	0.572719336	363.015	19.06946945	607
363.97699	19.13230133	609	0.572050631	364.018	19.13230133	609
364.979	19.16371727	610	0.57330507	365.02	19.16371727	610
365.98199	19.22654915	612	0.573953092	366.022	19.22654915	612
366.98599	19.28938103	614	0.573555887	367.024	19.28938103	614
367.98901	19.35221291	616	0.574141502	368.026	19.32079697	615
368.992	19.38362885	617	0.575353861	369.028	19.38362885	617
369.996	19.44646072	619	0.574852347	370.03	19.44646072	619
370.99799	19.5092926	621	0.575479269	371.033	19.47787666	620
372.00101	19.54070854	622	0.576023221	372.035	19.54070854	622
373.004	19.60354042	624	0.575960279	373.037	19.60354042	624
374.00699	19.6663723	626	0.5766294	374.039	19.63495636	625
375.01001	19.69778824	627	0.576901376	375.041	19.69778824	627
376.013	19.76062012	629	0.577319086	376.044	19.76062012	629
377.01599	19.823452	631	0.577988207	377.046	19.79203606	630
378.01801	19.85486603	632	0.578615725	378.048	19.85486603	632
379.021	19.91769791	634	0.57853204	379.051	19.91769791	634
380.02399	19.98052979	636	0.579221785	380.053	19.94911385	635
381.02701	20.01194572	637	0.579598188	381.055	20.01194572	637
382.03	20.0747776	639	0.579912066	382.057	20.0747776	639
383.03299	20.13760948	641	0.580309033	383.059	20.10619354	640
384.03601	20.16902542	642	0.580664635	384.062	20.16902542	642
385.039	20.2318573	644	0.581521749	385.064	20.2318573	644
386.04199	20.29468918	646	0.581605375	386.066	20.26327324	645
387.04401	20.32610512	647	0.581918836	387.069	20.32610512	647
388.047	20.388937	649	0.582985222	388.071	20.388937	649
389.04999	20.45176888	651	0.582839012	389.074	20.45176888	651



390.05301	20.48318481	652	0.58308959	390.076	20.48318481	652
391.056	20.54601669	654	0.584239721	391.078	20.54601669	654
392.05801	20.60884857	656	0.584636867	392.081	20.60884857	656
393.061	20.64026451	657	0.584553421	393.083	20.64026451	657
394.064	20.70309639	659	0.585995972	394.085	20.70309639	659
395.06699	20.76592827	661	0.585368812	395.087	20.76592827	661
396.07101	20.79734421	662	0.585974991	396.089	20.79734421	662
397.073	20.86017609	664	0.587312937	397.091	20.86017609	664
398.07599	20.92300797	666	0.58706218	398.093	20.92300797	666
399.07901	20.9544239	667	0.587208629	399.095	20.9544239	667
400.082	21.01725578	669	0.588839471	400.098	21.01725578	669
401.08499	21.08008766	671	0.588128328	401.1	21.08008766	671
402.08701	21.1115036	672	0.589006543	402.102	21.1115036	672
403.09	21.17433548	674	0.589633882	403.104	21.17433548	674
404.09299	21.23716736	676	0.589278519	404.106	21.23716736	676
405.095	21.2685833	677	0.589989245	405.109	21.2685833	677
406.09799	21.33141518	679	0.590806365	406.112	21.33141518	679
407.10001	21.39424706	681	0.590302229	407.115	21.39424706	681
408.103	21.42566299	682	0.589987338	408.117	21.42566299	682
409.10501	21.48849487	684	0.591289401	409.12	21.48849487	684
410.108	21.55132675	686	0.590092301	410.122	21.55132675	686
411.10999	21.61415863	688	0.589546084	411.124	21.58274269	687
412.11301	21.64557457	689	0.589672089	412.126	21.64557457	689
413.11499	21.70840645	691	0.588979006	413.128	21.70840645	691
414.11801	21.77123833	693	0.588327944	414.13	21.73982239	692
415.12	21.80265427	694	0.588265002	415.132	21.80265427	694
416.12201	21.86548615	696	0.588327944	416.134	21.86548615	696
417.12399	21.92831802	698	0.588726997	417.137	21.89690208	697
418.12701	21.95973396	699	0.588999927	418.139	21.95973396	699
419.129	22.02256584	701	0.590197206	419.142	22.02256584	701
420.13101	22.08539772	703	0.589482963	420.146	22.05398178	702
421.134	22.11681366	704	0.590113342	421.149	22.11681366	704
422.13599	22.17964554	706	0.591478527	422.152	22.17964554	706
423.138	22.24247742	708	0.590512335	423.156	22.21106148	707
424.14099	22.27389336	709	0.591457546	424.158	22.27389336	709
425.14301	22.33672523	711	0.592696667	425.161	22.33672523	711
426.146	22.39955711	713	0.591982603	426.164	22.36814117	712
427.14801	22.43097305	714	0.592402518	427.167	22.43097305	714
428.151	22.49380493	716	0.594755173	428.17	22.49380493	716
429.15302	22.55663681	718	0.594524264	429.173	22.52522087	717
430.15601	22.58805275	719	0.593788981	430.176	22.58805275	719
431.15799	22.65088463	721	0.59593153	431.179	22.65088463	721
432.16101	22.71371651	723	0.595700443	432.182	22.68230057	722
433.16299	22.74513245	724	0.596036494	433.185	22.74513245	724
434.16599	22.80796432	726	0.598956048	434.187	22.80796432	726
435.168	22.8707962	728	0.59866184	435.191	22.8707962	728
436.17099	22.90221214	729	0.597926915	436.194	22.90221214	729
437.173	22.96504402	731	0.600804329	437.198	22.96504402	731
438.17599	23.0278759	733	0.599838257	438.201	23.0278759	733
439.17599	23.05929184	734	0.599544108	439.202	23.05929184	734
440.17801	23.12212372	736	0.60235846	440.202	23.12212372	736
441.181	23.1849556	738	0.602148712	441.205	23.1849556	738

442.18399	23.21637154	739	0.601518452	442.209	23.21637154	739
443.186	23.27920341	741	0.603429973	443.212	23.27920341	741
444.189	23.34203529	743	0.602148592	444.214	23.34203529	743
445.19101	23.37345123	744	0.602064729	445.217	23.37345123	744
446.194	23.43628311	746	0.603451014	446.22	23.43628311	746
447.19601	23.49911499	748	0.603325188	447.223	23.49911499	748
448.19901	23.53053093	749	0.603408933	448.226	23.53053093	749
449.20099	23.59336281	751	0.604816139	449.228	23.59336281	751
450.203	23.65619469	753	0.603681982	450.231	23.65619469	753
451.20599	23.68761063	754	0.602967858	451.234	23.68761063	754
452.20801	23.7504425	756	0.605236292	452.237	23.7504425	756
453.20999	23.81327438	758	0.604942441	453.24	23.81327438	758
454.21301	23.84469032	759	0.603954971	454.243	23.84469032	759
455.215	23.9075222	761	0.605656505	455.246	23.9075222	761
456.21799	23.97035408	763	0.605824471	456.248	23.97035408	763
457.22	24.03318596	765	0.605131149	457.251	24.00177002	764
458.22198	24.0646019	766	0.605026007	458.254	24.0646019	766
459.224	24.12743378	768	0.607084453	459.256	24.12743378	768
460.22699	24.19026566	770	0.605845451	460.26	24.15884972	769
461.23001	24.22168159	771	0.606832564	461.263	24.22168159	771
462.23199	24.28451347	773	0.608135045	462.263	24.28451347	773
463.23499	24.34734535	775	0.606517732	463.266	24.31592941	774
464.237	24.37876129	776	0.607567847	464.269	24.37876129	776
465.23999	24.44159317	778	0.608954072	465.271	24.44159317	778
466.242	24.50442505	780	0.607693791	466.275	24.47300911	779
467.245	24.53584099	781	0.607714772	467.278	24.53584099	781
468.24701	24.59867287	783	0.609731317	468.28	24.59867287	783
469.24899	24.66150475	785	0.60826087	469.283	24.63008881	784
470.25201	24.69292068	786	0.608554959	470.286	24.69292068	786
471.254	24.75575256	788	0.610697508	471.288	24.75575256	788
472.25699	24.81858444	790	0.608471215	472.291	24.7871685	789
473.259	24.85000038	791	0.608617783	473.294	24.85000038	791
474.26199	24.91283226	793	0.611117661	474.297	24.91283226	793
475.26401	24.97566414	795	0.608995974	475.3	24.97566414	795
476.267	25.00708008	796	0.608407795	476.302	25.00708008	796
477.26901	25.06991196	798	0.610781491	477.305	25.06991196	798
478.271	25.13274384	800	0.609521389	478.309	25.13274384	800
479.27399	25.16415977	801	0.608933151	479.312	25.16415977	801
480.276	25.22699165	803	0.61172688	480.314	25.22699165	803
481.27899	25.28982353	805	0.609479129	481.317	25.28982353	805
482.27899	25.32123947	806	0.609618545	482.319	25.32123947	806
483.28101	25.38407135	808	0.61170572	483.322	25.38407135	808
484.28299	25.44690323	810	0.610592246	484.325	25.44690323	810
485.285	25.47831917	811	0.610298514	485.327	25.47831917	811
486.28799	25.54114914	813	0.61288178	486.331	25.54114914	813
487.29001	25.60398102	815	0.611831665	487.334	25.60398102	815
488.293	25.63539696	816	0.61136961	488.338	25.63539696	816
489.29501	25.69822884	818	0.61319685	489.341	25.69822884	818
490.298	25.76106071	820	0.612209678	490.343	25.76106071	820
491.29999	25.79247665	821	0.611348748	491.346	25.79247665	821
492.302	25.85530853	823	0.612545848	492.349	25.85530853	823
493.30499	25.91814041	825	0.612671912	493.351	25.91814041	825

494.30701	25.94955635	826	0.61164254	494.354	25.94955635	826
495.30899	26.01238823	828	0.613365054	495.357	26.01238823	828
496.31201	26.07522011	830	0.613134086	496.36	26.07522011	830
497.314	26.10663605	831	0.612377822	497.363	26.10663605	831
498.31601	26.16946793	833	0.612671912	498.365	26.16946793	833
499.319	26.2322998	835	0.613385797	499.368	26.2322998	835
500.32101	26.26371574	836	0.61323911	500.371	26.26371574	836
501.323	26.32654762	838	0.614226162	501.374	26.32654762	838
502.32599	26.3893795	840	0.614457071	502.377	26.3893795	840
503.32901	26.45221138	842	0.613554239	503.38	26.42079544	841
504.33099	26.48362732	843	0.614141941	504.382	26.48362732	843
505.33301	26.5464592	845	0.614415407	505.385	26.5464592	845
506.336	26.60929108	847	0.613995194	506.389	26.57787514	846
507.33801	26.64070702	848	0.613406837	507.392	26.64070702	848
508.34	26.70353889	850	0.614016354	508.396	26.70353889	850
509.34299	26.76637077	852	0.613134027	509.4	26.73495483	851
510.345	26.79778671	853	0.61294502	510.403	26.79778671	853
511.34698	26.86061859	855	0.61384809	511.407	26.86061859	855
512.34998	26.92345047	857	0.613007724	512.41	26.89203453	856
513.35303	26.95486641	858	0.613008857	513.41	26.95486641	858
514.35699	27.01769829	860	0.614765346	514.414	27.01769829	860
515.35999	27.08053017	862	0.613531649	515.417	27.04911423	861
516.36401	27.11194611	863	0.613552749	516.417	27.11194611	863
517.367	27.17477798	865	0.61530894	517.42	27.17477798	865
518.37097	27.23760986	867	0.614681423	518.42	27.23760986	867
519.375	27.2690258	868	0.61417979	519.42	27.2690258	868
520.37799	27.33185768	870	0.616960764	520.423	27.33185768	870
521.38202	27.39468956	872	0.615245938	521.427	27.39468956	872
522.38599	27.4261055	873	0.6152879	522.427	27.4261055	873
523.38898	27.48893738	875	0.617358088	523.431	27.48893738	875
524.39301	27.55176926	877	0.61641717	524.434	27.55176926	877
525.396	27.5831852	878	0.615748048	525.434	27.5831852	878
526.40002	27.64601707	880	0.61813128	526.434	27.64601707	880
527.40399	27.70884895	882	0.617274225	527.438	27.70884895	882
528.40698	27.74026489	883	0.616542578	528.442	27.74026489	883
529.41101	27.80309677	885	0.618110597	529.445	27.80309677	885
530.414	27.86592865	887	0.617838681	530.449	27.86592865	887
531.41803	27.89734459	888	0.616605103	531.453	27.89734459	888
532.42102	27.96017647	890	0.618027031	532.456	27.96017647	890
533.42499	28.02300835	892	0.617441356	533.456	28.02300835	892
534.42902	28.05442429	893	0.616730392	534.46	28.05442429	893
535.43201	28.11725616	895	0.618026733	535.464	28.11725616	895
536.43597	28.18008804	897	0.618005753	536.467	28.18008804	897
537.43903	28.21150398	898	0.617566943	537.467	28.21150398	898
538.44299	28.27433586	900	0.617901385	538.471	28.27433586	900
539.44702	28.33716774	902	0.618235826	539.475	28.33716774	902
540.45001	28.36858368	903	0.61813122	540.475	28.36858368	903
541.45398	28.43141556	905	0.619218528	541.478	28.43141556	905
542.45801	28.49424744	907	0.620138526	542.478	28.49424744	907
543.461	28.55707932	909	0.619699597	543.482	28.52566338	908
544.461	28.58849525	910	0.620044112	544.486	28.58849525	910
545.46399	28.65132713	912	0.621058404	545.486	28.65132713	912

546.46698	28.71415901	914	0.621058524	546.486	28.68274307	913
547.47101	28.74557495	915	0.62114203	547.49	28.74557495	915
548.47498	28.80840683	917	0.622292221	548.49	28.80840683	917
549.47803	28.87123871	919	0.621393144	549.49	28.83982277	918
550.48199	28.90265465	920	0.621351421	550.493	28.90265465	920
551.48499	28.96548653	922	0.622856557	551.497	28.96548653	922
552.48901	29.02831841	924	0.621706784	552.501	28.99690247	923
553.492	29.05973434	925	0.621476531	553.504	29.05973434	925
554.49597	29.12256622	927	0.623128414	554.508	29.12256622	927
555.5	29.1853981	929	0.622417271	555.508	29.15398216	928
556.50299	29.21681404	930	0.621978462	556.512	29.21681404	930
557.50702	29.27964592	932	0.624090254	557.515	29.27964592	932
558.51001	29.3424778	934	0.623190999	558.515	29.31106186	933
559.51398	29.37389374	935	0.622835517	559.519	29.37389374	935
560.51703	29.43672562	937	0.62526077	560.522	29.43672562	937
561.521	29.4995575	939	0.624236524	561.526	29.46814156	938
562.52502	29.53097343	940	0.623922586	562.53	29.53097343	940
563.52802	29.59380531	942	0.62511456	563.534	29.59380531	942
564.53198	29.65663719	944	0.624278128	564.538	29.65663719	944
565.53601	29.68805313	945	0.623630166	565.54	29.68805313	945
566.539	29.75088501	947	0.625386536	566.544	29.75088501	947
567.54303	29.81371689	949	0.624801159	567.548	29.81371689	949
568.547	29.84513283	950	0.624090195	568.552	29.84513283	950
569.54999	29.90796471	952	0.625950813	569.555	29.90796471	952
570.55402	29.97079659	954	0.625511706	570.559	29.97079659	954
571.55701	30.00221252	955	0.624445498	571.559	30.00221252	955
572.56097	30.0650444	957	0.626264453	572.563	30.0650444	957
573.565	30.12787628	959	0.625511885	573.567	30.12787628	959
574.56799	30.15929222	960	0.624361634	574.57	30.15929222	960
575.57202	30.2221241	962	0.625888288	575.574	30.2221241	962
576.57501	30.28495598	964	0.62574178	576.578	30.28495598	964
577.578	30.31637192	965	0.624529243	577.581	30.31637192	965
578.58099	30.3792038	967	0.625783682	578.581	30.3792038	967
579.58301	30.44203568	969	0.626034439	579.585	30.44203568	969
580.58502	30.50486755	971	0.624654531	580.585	30.47345161	970
581.58801	30.53628349	972	0.625344515	581.588	30.53628349	972
582.59003	30.59911537	974	0.625867009	582.588	30.59911537	974
583.59302	30.66194725	976	0.625344455	583.588	30.63053131	975
584.59497	30.69336319	977	0.625992715	584.592	30.69336319	977
585.59802	30.75619507	979	0.626640797	585.595	30.75619507	979
586.59998	30.81902695	981	0.625699639	586.595	30.78761101	980
587.60303	30.85044289	982	0.62668246	587.598	30.85044289	982
588.60498	30.91327477	984	0.627184331	588.602	30.91327477	984
589.60797	30.97610664	986	0.626640439	589.602	30.9446907	985
590.60999	31.00752258	987	0.626536191	590.605	31.00752258	987
591.61298	31.07035446	989	0.628334582	591.608	31.07035446	989
592.61603	31.13318634	991	0.627372682	592.611	31.1017704	990
593.61798	31.16460228	992	0.627832413	593.611	31.16460228	992
594.62097	31.22743225	994	0.629212558	594.614	31.22743225	994
595.62299	31.29026413	996	0.628229976	595.618	31.25884819	995
596.62598	31.32168007	997	0.627707064	596.621	31.32168007	997
597.62903	31.38451195	999	0.629567683	597.625	31.38451195	999

598.63098	31.44734383	1001	0.628292382	598.628	31.41592789	1000
599.63501	31.47875977	1002	0.628313303	599.628	31.47875977	1002
600.638	31.54159164	1004	0.629797697	600.631	31.54159164	1004
601.64001	31.60442352	1006	0.628752172	601.635	31.57300758	1005
602.64301	31.63583946	1007	0.628585398	602.638	31.63583946	1007
603.64502	31.69867134	1009	0.629797995	603.642	31.69867134	1009
604.64697	31.76150322	1011	0.628605843	604.645	31.76150322	1011
605.65002	31.79291916	1012	0.628585279	605.649	31.79291916	1012
606.65198	31.85575104	1014	0.630153358	606.653	31.85575104	1014
607.65503	31.91858292	1016	0.629254103	607.656	31.91858292	1016
608.65698	31.94999886	1017	0.629108071	608.66	31.94999886	1017
609.65997	32.01283264	1019	0.630864024	609.663	32.01283264	1019
610.66199	32.07566452	1021	0.629860461	610.663	32.07566452	1021
611.66498	32.10707855	1022	0.629191399	611.666	32.10707855	1022
612.66699	32.16991043	1024	0.630383372	612.67	32.16991043	1024
613.66901	32.23274231	1026	0.629609883	613.673	32.23274231	1026
614.67297	32.26416016	1027	0.629567504	614.677	32.26416016	1027
615.67499	32.32699203	1029	0.631616712	615.681	32.32699203	1029
616.677	32.38982391	1031	0.631052375	616.684	32.38982391	1031
617.67999	32.42123795	1032	0.629902422	617.685	32.42123795	1032
618.68298	32.48406982	1034	0.631700575	618.689	32.48406982	1034
619.68597	32.5469017	1036	0.631156564	619.693	32.5469017	1036
620.68799	32.57831955	1037	0.631094038	620.696	32.57831955	1037
621.69	32.64115143	1039	0.632557511	621.7	32.64115143	1039
622.69299	32.70398331	1041	0.632014096	622.703	32.70398331	1041
623.69598	32.73539734	1042	0.631449401	623.707	32.73539734	1042
624.698	32.79822922	1044	0.632515848	624.711	32.79822922	1044
625.70099	32.8610611	1046	0.632390559	625.714	32.8610611	1046
626.703	32.92389297	1048	0.631867766	626.718	32.89247894	1047
627.70599	32.95531082	1049	0.632578433	627.721	32.95531082	1049
628.70697	33.0181427	1051	0.632787764	628.725	33.0181427	1051
629.711	33.08097458	1053	0.632118702	629.729	33.04955673	1052
630.71301	33.11238861	1054	0.632787585	630.732	33.11238861	1054
631.71503	33.17522049	1056	0.633268356	631.736	33.17522049	1056
632.71802	33.23805237	1058	0.63239044	632.739	33.20663834	1057
633.71997	33.26947021	1059	0.633080363	633.743	33.26947021	1059
634.72302	33.33230209	1061	0.633602858	634.746	33.33230209	1061
635.72601	33.39513397	1063	0.632620215	635.746	33.36371613	1062
636.72803	33.426548	1064	0.633101285	636.749	33.426548	1064
637.73102	33.48937988	1066	0.633937478	637.753	33.48937988	1066
638.73297	33.55221176	1068	0.632871091	638.756	33.52079773	1067
639.73602	33.58362961	1069	0.633101285	639.76	33.58362961	1069
640.73901	33.64646149	1071	0.634272039	640.764	33.64646149	1071
641.74103	33.70929337	1073	0.633456826	641.767	33.70929337	1073
642.74402	33.7407074	1074	0.633414924	642.771	33.7407074	1074
643.74701	33.80353928	1076	0.634815514	643.774	33.80353928	1076
644.74902	33.86637115	1078	0.633540392	644.778	33.86637115	1078
645.75201	33.897789	1079	0.633603096	645.781	33.897789	1079
646.755	33.96062088	1081	0.634815753	646.785	33.96062088	1081
647.75702	34.02344894	1083	0.633958459	647.789	34.02344894	1083
648.76001	34.05486679	1084	0.633561313	648.792	34.05486679	1084
649.763	34.11769867	1086	0.635359347	649.796	34.11769867	1086

650.76501	34.18053055	1088	0.633874893	650.799	34.18053055	1088
651.76703	34.21194458	1089	0.634272218	651.803	34.21194458	1089
652.77002	34.27477646	1091	0.635902762	652.807	34.27477646	1091
653.77197	34.33760834	1093	0.635045528	653.81	34.33760834	1093
654.77502	34.36902618	1094	0.634564757	654.814	34.36902618	1094
655.77698	34.43185806	1096	0.635923684	655.817	34.43185806	1096
656.77899	34.49468994	1098	0.635045528	656.821	34.49468994	1098
657.78198	34.52610397	1099	0.634940982	657.824	34.52610397	1099
658.784	34.58893585	1101	0.63636291	658.824	34.58893585	1101
659.78699	34.65176773	1103	0.635693848	659.827	34.65176773	1103
660.78998	34.68318558	1104	0.634962082	660.831	34.68318558	1104
661.79199	34.74601746	1106	0.636341989	661.835	34.74601746	1106
662.79498	34.80884933	1108	0.635819197	662.838	34.80884933	1108
663.797	34.84026337	1109	0.635589182	663.842	34.84026337	1109
664.79901	34.90309525	1111	0.637052774	664.845	34.90309525	1111
665.80103	34.96592712	1113	0.636446357	665.849	34.96592712	1113
666.80402	34.99734497	1114	0.635421872	666.853	34.99734497	1114
667.80701	35.06017685	1116	0.637178183	667.856	35.06017685	1116
668.81	35.12300873	1118	0.636279166	668.86	35.12300873	1118
669.81201	35.15442276	1119	0.636300087	669.863	35.15442276	1119
670.815	35.21725464	1121	0.637094736	670.867	35.21725464	1121
671.81702	35.28008652	1123	0.637826324	671.87	35.28008652	1123
672.82001	35.3429184	1125	0.636655569	672.874	35.31150436	1124
673.823	35.37433624	1126	0.637199163	673.877	35.37433624	1126
674.82501	35.43716812	1128	0.637178361	674.877	35.43716812	1128
675.828	35.5	1130	0.636383593	675.88	35.46858215	1129
676.83002	35.53141403	1131	0.636969149	676.884	35.53141403	1131
677.83301	35.59424591	1133	0.637889147	677.887	35.59424591	1133
678.83502	35.65707779	1135	0.636969149	678.887	35.62566376	1134
679.83801	35.68849564	1136	0.637826383	679.89	35.68849564	1136
680.84003	35.75132751	1138	0.638453424	680.894	35.75132751	1138
681.84302	35.81415939	1140	0.63744998	681.898	35.81415939	1140
682.84497	35.84557343	1141	0.637993813	682.901	35.84557343	1141
683.84802	35.9084053	1143	0.639164209	683.904	35.9084053	1143
684.85101	35.97123718	1145	0.637847006	684.908	35.97123718	1145
685.85101	36.00265503	1146	0.637813747	685.911	36.00265503	1146
686.854	36.06548691	1148	0.639436305	686.911	36.06548691	1148
687.85797	36.12831879	1150	0.638014495	687.914	36.12831879	1150
688.86102	36.15973282	1151	0.638516426	688.918	36.15973282	1151
689.86102	36.2225647	1153	0.639599144	689.921	36.2225647	1153
690.86401	36.28539658	1155	0.638390958	690.925	36.28539658	1155
691.86798	36.31681442	1156	0.638913631	691.928	36.31681442	1156
692.87097	36.3796463	1158	0.640439808	692.928	36.3796463	1158
693.875	36.44247818	1160	0.638934493	693.931	36.44247818	1160
694.87799	36.47389221	1161	0.638767004	694.935	36.47389221	1161
695.88202	36.53672409	1163	0.64046067	695.938	36.53672409	1163
696.88599	36.59955597	1165	0.639101863	696.94	36.59955597	1165
697.88898	36.63097382	1166	0.639248013	697.943	36.63097382	1166
698.89301	36.69380569	1168	0.640711486	698.947	36.69380569	1168
699.896	36.75663757	1170	0.639729083	699.95	36.75663757	1170
700.896	36.78805161	1171	0.639241934	700.952	36.78805161	1171
701.89899	36.85088348	1173	0.640523732	701.955	36.85088348	1173

702.90198	36.91371536	1175	0.639770746	702.959	36.91371536	1175
703.90198	36.94513321	1176	0.639431179	703.962	36.94513321	1176
704.90503	37.00796509	1178	0.640502512	704.966	37.00796509	1178
705.90503	37.07079697	1180	0.640145302	705.969	37.07079697	1180
706.90802	37.102211	1181	0.639749765	706.971	37.102211	1181
707.91199	37.16504288	1183	0.639979959	707.975	37.16504288	1183
708.91498	37.22787476	1185	0.639645338	708.978	37.22787476	1185
709.91901	37.2592926	1186	0.639227211	709.978	37.2592926	1186
710.922	37.32212448	1188	0.640586197	710.981	37.32212448	1188
711.92603	37.38495636	1190	0.640272737	711.984	37.38495636	1190
712.92902	37.41637039	1191	0.639687061	712.988	37.41637039	1191
713.93298	37.47920227	1193	0.641276062	713.992	37.47920227	1193
714.93701	37.54203415	1195	0.640878856	714.995	37.54203415	1195
715.94	37.60486603	1197	0.639917135	715.999	37.573452	1196
716.94397	37.63628387	1198	0.641067028	717.002	37.63628387	1198
717.94702	37.69911575	1200	0.641610444	718.006	37.69911575	1200
718.95099	37.76194763	1202	0.64014709	719.01	37.73052979	1201
719.95502	37.79336166	1203	0.64140135	720.013	37.79336166	1203
720.95801	37.85619354	1205	0.641777873	721.017	37.85619354	1205
721.961	37.91902542	1207	0.640523434	722.02	37.91902542	1207
722.96399	37.95044327	1208	0.64110893	723.024	37.95044327	1208
723.96698	38.01327515	1210	0.641861618	724.027	38.01327515	1210
724.96997	38.07610703	1212	0.639979661	725.03	38.07610703	1212
725.974	38.10752106	1213	0.641046166	726.033	38.10752106	1213
726.97699	38.17035294	1215	0.642488956	727.036	38.17035294	1215
727.98102	38.23318481	1217	0.641631544	728.039	38.23318481	1217
728.98401	38.26460266	1218	0.642405391	729.042	38.26460266	1218
729.987	38.32743454	1220	0.644245028	730.045	38.32743454	1220
730.98999	38.39026642	1222	0.642718911	731.048	38.39026642	1222
731.99298	38.42168045	1223	0.642509758	732.051	38.42168045	1223
732.99701	38.48451233	1225	0.644140244	733.053	38.48451233	1225
734.00098	38.54734421	1227	0.642990351	734.057	38.54734421	1227
735.00403	38.57876205	1228	0.64301151	735.06	38.57876205	1228
736.008	38.64159393	1230	0.644224107	736.06	38.64159393	1230
737.01099	38.70442581	1232	0.643053234	737.063	38.70442581	1232
738.01501	38.73583984	1233	0.64299041	738.067	38.73583984	1233
739.01801	38.79867172	1235	0.644224107	739.07	38.79867172	1235
740.021	38.8615036	1237	0.643241465	740.074	38.8615036	1237
741.02399	38.89292145	1238	0.643492281	741.077	38.89292145	1238
742.02698	38.95575333	1240	0.645018458	742.08	38.95575333	1240
743.03003	39.01858521	1242	0.643993974	743.08	39.01858521	1242
744.03302	39.04999924	1243	0.644077599	744.083	39.04999924	1243
745.03497	39.11283112	1245	0.645729542	745.083	39.11283112	1245
746.039	39.17566299	1247	0.64395231	746.086	39.17566299	1247
747.04199	39.20708084	1248	0.643471479	747.09	39.20708084	1248
748.04498	39.26991272	1250	0.645123363	748.093	39.26991272	1250
749.04797	39.3327446	1252	0.644746602	749.096	39.3327446	1252
750.05103	39.36415863	1253	0.643555105	750.099	39.36415863	1253
751.05499	39.42699051	1255	0.644997716	751.102	39.42699051	1255
752.05798	39.48982239	1257	0.64537406	752.105	39.48982239	1257
753.05798	39.52124023	1258	0.644555986	753.108	39.52124023	1258
754.06097	39.58407211	1260	0.645980418	754.111	39.58407211	1260

755.065	39.64690399	1262	0.645645797	755.114	39.64690399	1262
756.06799	39.70973206	1264	0.64489305	756.118	39.67831802	1263
757.07202	39.7411499	1265	0.646022141	757.121	39.7411499	1265
758.07501	39.80398178	1267	0.646544755	758.125	39.80398178	1267
759.07898	39.86681366	1269	0.645081222	759.128	39.83539581	1268
760.08197	39.89822769	1270	0.646126628	760.132	39.89822769	1270
761.086	39.96105957	1272	0.646691084	761.135	39.96105957	1272
762.08899	40.02389145	1274	0.645708501	762.135	40.02389145	1274
763.08899	40.0553093	1275	0.646530449	763.138	40.0553093	1275
764.09198	40.11814117	1277	0.647004783	764.142	40.11814117	1277
765.09601	40.18097305	1279	0.645520389	765.145	40.18097305	1279
766.099	40.21238708	1280	0.646586776	766.145	40.21238708	1280
767.10199	40.27521896	1282	0.647151053	767.148	40.27521896	1282
768.10498	40.33805084	1284	0.646544755	768.152	40.33805084	1284
769.10797	40.36946869	1285	0.646670282	769.155	40.36946869	1285
770.11102	40.43230057	1287	0.648300946	770.159	40.43230057	1287
771.11499	40.49513245	1289	0.646732688	771.163	40.49513245	1289
772.11902	40.52654648	1290	0.646942079	772.166	40.52654648	1290
773.12201	40.58937836	1292	0.648280144	773.17	40.58937836	1292
774.12598	40.65221024	1294	0.647506595	774.174	40.65221024	1294
775.12903	40.68362808	1295	0.647192955	775.177	40.68362808	1295
776.13202	40.74645996	1297	0.648593605	776.181	40.74645996	1297
777.13599	40.80929184	1299	0.647067487	777.184	40.80929184	1299
778.138	40.84070587	1300	0.647297382	778.188	40.84070587	1300
779.14203	40.90353775	1302	0.648656487	779.191	40.90353775	1302
780.14502	40.96636963	1304	0.647255778	780.195	40.96636963	1304
781.14899	40.99778748	1305	0.647841275	781.199	40.99778748	1305
782.15198	41.06061935	1307	0.648844779	782.202	41.06061935	1307
783.15601	41.12345123	1309	0.647653282	783.206	41.12345123	1309
784.15997	41.15486526	1310	0.646607578	784.209	41.15486526	1310
785.16302	41.21769714	1312	0.648384571	785.213	41.21769714	1312
786.16699	41.28052902	1314	0.647799373	786.216	41.28052902	1314
787.16998	41.31194687	1315	0.646962941	787.22	41.31194687	1315
788.17401	41.37477875	1317	0.647820354	788.223	41.37477875	1317
789.177	41.43761063	1319	0.647401989	789.223	41.43761063	1319
790.177	41.46902466	1320	0.646929502	790.226	41.46902466	1320
791.17999	41.53185654	1322	0.648259223	791.23	41.53185654	1322
792.18402	41.59468842	1324	0.648050308	792.233	41.59468842	1324
793.18701	41.65752029	1326	0.646670222	793.237	41.62610626	1325
794.19098	41.68893814	1327	0.648426414	794.241	41.68893814	1327
795.19397	41.75177002	1329	0.648238301	795.244	41.75177002	1329
796.198	41.8146019	1331	0.64679563	796.248	41.78318405	1330
797.198	41.84601593	1332	0.648210645	797.252	41.84601593	1332
798.20099	41.90884781	1334	0.648823678	798.255	41.90884781	1334
799.20502	41.97167969	1336	0.647339165	799.259	41.97167969	1336
800.20801	42.00309753	1337	0.647924602	800.262	42.00309753	1337
801.21198	42.06592941	1339	0.648719132	801.266	42.06592941	1339
802.21503	42.12876129	1341	0.647945523	802.27	42.12876129	1341
803.21899	42.16017532	1342	0.649053752	803.273	42.16017532	1342
804.22302	42.2230072	1344	0.649618208	804.277	42.2230072	1344
805.22601	42.28583908	1346	0.648510039	805.28	42.28583908	1346
806.22998	42.31725693	1347	0.649325252	806.284	42.31725693	1347



807.23297	42.38008881	1349	0.649890423	807.287	42.38008881	1349
808.237	42.44292068	1351	0.648280144	808.287	42.44292068	1351
809.23999	42.47433472	1352	0.648970068	809.29	42.47433472	1352
810.24402	42.5371666	1354	0.65026629	810.294	42.5371666	1354
811.24701	42.59999847	1356	0.648552179	811.297	42.59999847	1356
812.24701	42.63141632	1357	0.649240077	812.301	42.63141632	1357
813.25	42.6942482	1359	0.650078475	813.304	42.6942482	1359
814.25201	42.75708008	1361	0.648698151	814.304	42.75708008	1361
815.255	42.78849411	1362	0.649451077	815.307	42.78849411	1362
816.25897	42.85132599	1364	0.650496483	816.311	42.85132599	1364
817.26202	42.91415787	1366	0.649241924	817.314	42.91415787	1366
818.26599	42.94557571	1367	0.649514019	818.318	42.94557571	1367
819.26898	43.00840759	1369	0.65154171	819.321	43.00840759	1369
820.27301	43.07123947	1371	0.649722874	820.325	43.07123947	1371
821.27698	43.1026535	1372	0.649576306	821.329	43.1026535	1372
822.28101	43.16548538	1374	0.651332796	822.332	43.16548538	1374
823.284	43.22831726	1376	0.650642753	823.336	43.22831726	1376
824.28802	43.25973511	1377	0.649973691	824.34	43.25973511	1377
825.29102	43.32256699	1379	0.651018977	825.343	43.32256699	1379
826.29498	43.38539886	1381	0.650371015	826.347	43.38539886	1381
827.29797	43.4168129	1382	0.650956571	827.35	43.4168129	1382
828.302	43.47964478	1384	0.652127326	828.354	43.47964478	1384
829.30603	43.54247665	1386	0.650893688	829.357	43.54247665	1386
830.30902	43.5738945	1387	0.650789022	830.361	43.5738945	1387
831.31299	43.63672638	1389	0.651918113	831.365	43.63672638	1389
832.31598	43.69955826	1391	0.650663733	832.368	43.69955826	1391
833.31897	43.76239014	1393	0.650350034	833.372	43.73097229	1392
834.32202	43.79380417	1394	0.651918173	834.375	43.79380417	1394
835.32501	43.85663605	1396	0.65154177	835.379	43.85663605	1396
836.328	43.91946793	1398	0.649074495	836.383	43.91946793	1398
837.33197	43.95088577	1399	0.651667237	837.386	43.95088577	1399
838.336	44.01371765	1401	0.6513744	838.39	44.01371765	1401
839.33899	44.07654953	1403	0.64980638	839.393	44.07654953	1403
840.34302	44.10796356	1404	0.651018918	840.397	44.10796356	1404
841.34601	44.17079544	1406	0.650705516	841.401	44.17079544	1406
842.34998	44.23362732	1408	0.648677588	842.404	44.23362732	1408
843.35303	44.26504517	1409	0.650412977	843.408	44.26504517	1409
844.35699	44.32787704	1411	0.650475442	844.412	44.32787704	1411
845.36102	44.39070892	1413	0.649660289	845.415	44.39070892	1413
846.36499	44.42212296	1414	0.649764538	846.419	44.42212296	1414
847.36798	44.48495483	1416	0.650475383	847.422	44.48495483	1416
848.37201	44.54778671	1418	0.649492681	848.426	44.54778671	1418
849.375	44.57920456	1419	0.650517344	849.43	44.57920456	1419
850.37903	44.64203644	1421	0.651374578	850.433	44.64203644	1421
851.38202	44.70486832	1423	0.649994433	851.437	44.70486832	1423
852.38599	44.73628235	1424	0.650559187	852.44	44.73628235	1424
853.38898	44.79911423	1426	0.651332796	853.444	44.79911423	1426
854.39301	44.86194611	1428	0.649869263	854.447	44.86194611	1428
855.39697	44.89336395	1429	0.649743676	855.451	44.89336395	1429
856.40002	44.95619583	1431	0.651646316	856.454	44.95619583	1431
857.40399	45.01902771	1433	0.650161862	857.458	45.01902771	1433
858.40698	45.05044174	1434	0.650036216	858.461	45.05044174	1434

859.41101	45.11327362	1436	0.651311815	859.463	45.11327362	1436
860.41302	45.1761055	1438	0.650392115	860.466	45.1761055	1438
861.41699	45.20752335	1439	0.649346709	861.469	45.20752335	1439
862.41998	45.27035522	1441	0.651708841	862.472	45.27035522	1441
863.42297	45.3331871	1443	0.650224507	863.475	45.3331871	1443
864.427	45.36460114	1444	0.649723232	864.478	45.36460114	1444
865.42999	45.42743301	1446	0.650956392	865.481	45.42743301	1446
866.43402	45.49026489	1448	0.64934653	866.484	45.49026489	1448
867.43799	45.52167892	1449	0.649639249	867.487	45.52167892	1449
868.44202	45.5845108	1451	0.6510607	868.489	45.5845108	1451
869.44501	45.64734268	1453	0.649743676	869.492	45.64734268	1453
870.44897	45.71017456	1455	0.648928344	870.496	45.67876053	1454
871.45203	45.74159241	1456	0.651186466	871.499	45.74159241	1456
872.45599	45.80442429	1458	0.650120258	872.503	45.80442429	1458
873.45898	45.86725616	1460	0.649137676	873.506	45.86725616	1460
874.46301	45.8986702	1461	0.651144624	874.506	45.8986702	1461
875.466	45.96150208	1463	0.650245368	875.509	45.96150208	1463
876.46997	46.02433395	1465	0.647652745	876.513	46.02433395	1465
877.474	46.0557518	1466	0.649890006	877.516	46.0557518	1466
878.47699	46.11858368	1468	0.649701715	878.518	46.11858368	1468
879.48102	46.18141556	1470	0.646984041	879.521	46.18141556	1470
880.48401	46.21282959	1471	0.648928344	880.524	46.21282959	1471
881.48798	46.27566147	1473	0.648760855	881.527	46.27566147	1473
882.492	46.33849335	1475	0.647695065	882.53	46.33849335	1475
883.495	46.36991119	1476	0.649095476	883.533	46.36991119	1476
884.49902	46.43274307	1478	0.648928523	884.536	46.43274307	1478
885.50299	46.49557495	1480	0.646649539	885.538	46.49557495	1480
886.50598	46.52698898	1481	0.649387956	886.542	46.52698898	1481
887.50897	46.58982086	1483	0.649576664	887.545	46.58982086	1483
888.50897	46.65265274	1485	0.645963371	888.547	46.65265274	1485
889.513	46.68407059	1486	0.648468673	889.55	46.68407059	1486
890.51599	46.74690247	1488	0.648321986	890.553	46.74690247	1488
891.52002	46.80973434	1490	0.646273017	891.556	46.80973434	1490
892.52301	46.84114838	1491	0.648050129	892.559	46.84114838	1491
893.52698	46.90398026	1493	0.64821744	893.562	46.90398026	1493
894.53003	46.96681213	1495	0.645708323	894.566	46.96681213	1495
895.53003	46.99822998	1496	0.647538543	895.57	46.99822998	1496
896.53302	47.06106186	1498	0.648133695	896.573	47.06106186	1498
897.53601	47.12389374	1500	0.645666718	897.577	47.12389374	1500
898.53601	47.15530777	1501	0.644871116	898.58	47.15530777	1501
899.539	47.21813965	1503	0.645812988	899.584	47.21813965	1503
900.54303	47.28097153	1505	0.644892931	900.586	47.28097153	1505
901.54602	47.31238937	1506	0.646252275	901.589	47.31238937	1506
902.54999	47.37522125	1508	0.64744395	902.592	47.37522125	1508
903.55298	47.43805313	1510	0.644516766	903.595	47.43805313	1510
904.55603	47.46946716	1511	0.646294057	904.598	47.46946716	1511
905.55902	47.53229904	1513	0.648175597	905.601	47.53229904	1513
906.56201	47.59513092	1515	0.6444454181	906.603	47.59513092	1515
907.565	47.6579628	1517	0.645708501	907.606	47.62654877	1516
908.56897	47.68938065	1518	0.64681673	908.609	47.68938065	1518
909.57098	47.75221252	1520	0.644223988	909.611	47.75221252	1520
910.57397	47.8150444	1522	0.64457947	910.615	47.78362656	1521

911.578	47.84645844	1523	0.648029387	911.618	47.84645844	1523
912.58099	47.90929031	1525	0.644433332	912.622	47.90929031	1525
913.58099	47.97212219	1527	0.642266393	913.625	47.97212219	1527
914.58398	48.00354004	1528	0.645583034	914.628	48.00354004	1528
915.58801	48.06637192	1530	0.642133296	915.631	48.06637192	1530
916.591	48.1292038	1532	0.641338825	916.634	48.1292038	1532
917.59497	48.16061783	1533	0.645541251	917.637	48.16061783	1533
918.59802	48.22344971	1535	0.642112434	918.641	48.22344971	1535
919.59802	48.28628159	1537	0.639725208	919.644	48.28628159	1537
920.60101	48.31769943	1538	0.644244671	920.648	48.31769943	1538
921.60498	48.38053131	1540	0.642446935	921.652	48.38053131	1540
922.60797	48.44336319	1542	0.639770746	922.655	48.44336319	1542
923.612	48.47477722	1543	0.644642174	923.658	48.47477722	1543
924.61603	48.5376091	1545	0.64378494	924.661	48.5376091	1545
925.61902	48.60044098	1547	0.640314221	925.664	48.60044098	1547
926.62201	48.63185883	1548	0.643366754	926.667	48.63185883	1548
927.62201	48.6946907	1550	0.642434418	927.67	48.6946907	1550
928.625	48.75752258	1552	0.639624476	928.672	48.75752258	1552
929.625	48.78893661	1553	0.643421888	929.676	48.78893661	1553
930.62903	48.85176849	1555	0.642634988	930.679	48.85176849	1555
931.63202	48.91460037	1557	0.63853699	931.681	48.91460037	1557
932.63599	48.94601822	1558	0.643513262	932.684	48.94601822	1558
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934.64203	49.07168198	1562	0.639101505	934.689	49.07168198	1562
935.646	49.10309601	1563	0.64173615	935.692	49.10309601	1563
936.65002	49.16592789	1565	0.644098699	936.695	49.16592789	1565
937.65302	49.22875977	1567	0.63918519	937.698	49.22875977	1567
938.65698	49.26017761	1568	0.64077425	938.701	49.26017761	1568
939.65997	49.32300949	1570	0.643157721	939.705	49.32300949	1570
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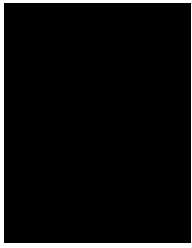
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