

Test Name	OSB, WC, rep 2
Cladding	Oriented Strand Board (OSB)
Cladding Thickness [mm]	11
Insulation	Water-cooled steel plate
Insulation Thickness [mm]	
Cavity Width [mm]	50
Repetition Number	2
Mass Flow Rate (Propane)	0.2
Description	This experiment is on a system consisting of an Oriented Strand Board (OSB) cladding panel and a Water-cooled steel plate insulation panel, separated with a cavity of 50 mm width. It is the second repetition of this system configuration.
Experiment Notes	At approximately 11 minutes the OSB panel began to touch the insulation panel, affecting the mass measurements. At approximately 9 minutes the OSB panel began to collapse, causing a sudden change in the mass measurements as debris fell into the debris tray, onto both load cells, or off the entire assembly.
Peak HRR [kW]	98.8
Time to Peak HRR [mins]	8.57
Residual HRR [kW]	4.82
Total HR [MJ]	41.2
Peak dQ/dt [kW/s]	0.466
Time to Peak dQ/dt [s]	5.38

Test Time [s]	Heat Release Rate HRR [kW]	HRR Smoothed [kW]	Mass Rainscreen [kg]	Mass Insulation [kg]	Mass Drip Tray [kg]	Mass Total [kg]	MLR Rainscreen Smoothed 100pt [g/s]	MLR Insulation Smoothed 100pt [g/s]	MLR Drip Tray Smoothed 100pt [g/s]	MLR Total Smoothed 100pt [g/s]
0	0.105	0.105	4.0975	0	0.0155	4.113	0.3789	0	-0.1478	0.2311
1	0.162	0.197	4.0971	0	0.0143	4.1114	0.3819	0	-0.1665	0.2154
2	0.324	0.51	4.097	0	0.0134	4.1104	0.3882	0	-0.1783	0.2099
3	0.746	1.08	4.0974	0	0.0127	4.1101	0.3907	0	-0.1799	0.2107
4	1.22	1.77	4.0978	0	0.0118	4.1096	0.388	0	-0.1664	0.2216
5	1.97	2.45	4.0982	0	0.0099	4.1081	0.3787	0	-0.1433	0.2354
6	3.04	3.11	4.0986	0	0.0088	4.1074	0.3522	0	-0.1756	0.1766
7	4	3.63	4.0989	0	0.0102	4.1091	0.3369	0	-0.1695	0.1673
8	4.41	4.09	4.0991	0	0.0095	4.1086	0.3259	0	-0.1777	0.1482
9	5.29	4.59	4.0991	0	0.0095	4.1086	0.3191	0	-0.187	0.132
10	5.7	5.04	4.0989	0	0.0089	4.1078	0.3146	0	-0.197	0.1175
11	6.53	5.48	4.0988	0	0.0088	4.1076	0.3125	0	-0.2011	0.1114
12	6.96	5.93	4.0986	0	0.0083	4.1069	0.3139	0	-0.1964	0.1175
13	7.02	6.36	4.0983	0	0.0084	4.1067	0.3181	0	-0.1956	0.1225
14	7.06	6.76	4.0978	0	0.0093	4.107	0.3275	0	-0.1768	0.1507
15	7.22	7.12	4.0972	0	0.0098	4.107	0.3421	0	-0.1767	0.1654
16	7.86	7.41	4.0967	0	0.0096	4.1063	0.3572	0	-0.1746	0.1826
17	8.72	7.65	4.0958	0	0.0095	4.1053	0.3729	0	-0.166	0.2069
18	8.94	7.87	4.0952	0	0.0096	4.1048	0.3879	0	-0.1484	0.2396
19	8.52	8.04	4.0947	0	0.0097	4.1043	0.3986	0	-0.1312	0.2674
20	8.67	8.19	4.0941	0	0.0106	4.1047	0.4038	0	-0.1471	0.2566
21	8.84	8.29	4.0937	0	0.0109	4.1046	0.4092	0	-0.1352	0.2741
22	8.85	8.39	4.0933	0	0.0105	4.1038	0.4193	0	-0.1279	0.2914
23	8.91	8.52	4.0929	0	0.0103	4.1032	0.4275	0	-0.1533	0.2741
24	8.74	8.61	4.0925	0	0.0107	4.1032	0.4308	0	-0.1594	0.2714
25	8.62	8.7	4.0915	0	0.0095	4.1011	0.4264	0	-0.159	0.2675
26	8.43	8.77	4.0912	0	0.0106	4.1018	0.423	0	-0.1643	0.2587
27	8.58	8.8	4.0902	0	0.0115	4.1017	0.4291	0	-0.1689	0.2601
28	8.62	8.82	4.0892	0	0.0123	4.1015	0.4367	0	-0.1678	0.2689

29	8.51	8.86	4.0883	0	0.0139	4.1022	0.4345	0	-0.1524	0.2821
30	8.46	8.87	4.0875	0	0.0151	4.1026	0.4302	0	-0.1614	0.2687
31	8.76	8.88	4.087	0	0.0145	4.1016	0.4324	0	-0.1609	0.2714
32	9.51	8.93	4.0868	0	0.0148	4.1016	0.4388	0	-0.1651	0.2737
33	8.81	8.96	4.0864	0	0.0163	4.1027	0.4474	0	-0.1741	0.2734
34	8.9	9.01	4.0856	0	0.0151	4.1007	0.4516	0	-0.1866	0.265
35	9.22	9.07	4.0848	0	0.0154	4.1002	0.452	0	-0.201	0.251
36	9.27	9.15	4.084	0	0.0157	4.0997	0.4587	0	-0.2075	0.2511
37	9.38	9.21	4.0831	0	0.0154	4.0985	0.4636	0	-0.181	0.2826
38	9.28	9.26	4.0823	0	0.0145	4.0968	0.4692	0	-0.1938	0.2754
39	8.77	9.35	4.0821	0	0.0144	4.0966	0.4756	0	-0.1928	0.2827
40	9.05	9.47	4.0826	0	0.0167	4.0992	0.4798	0	-0.1938	0.286
41	9.87	9.56	4.083	0	0.0183	4.1013	0.48	0	-0.1772	0.3028
42	9.49	9.64	4.0824	0	0.0174	4.0998	0.4814	0	-0.1599	0.3215
43	9.59	9.73	4.0822	0	0.0165	4.0987	0.4866	0	-0.1584	0.3282
44	9.84	9.78	4.0818	0	0.0165	4.0983	0.49	0	-0.1534	0.3365
45	9.89	9.83	4.0812	0	0.0177	4.099	0.4939	0	-0.1509	0.343
46	9.74	9.91	4.0806	0	0.0197	4.1003	0.4973	0	-0.139	0.3583
47	9.66	10	4.08	0	0.0215	4.1015	0.5019	0	-0.1421	0.3598
48	10.1	10.1	4.0797	0	0.0214	4.1011	0.5073	0	-0.1409	0.3664
49	10.7	10.2	4.0791	0	0.0218	4.1008	0.512	0	-0.1388	0.3733
50	10.6	10.3	4.0785	0	0.0229	4.1014	0.5179	0	-0.1377	0.3801
51	10.9	10.3	4.0778	0	0.0236	4.1015	0.523	0	-0.128	0.395
52	10.5	10.3	4.0773	0	0.0239	4.1012	0.5229	0	-0.1415	0.3815
53	9.93	10.3	4.0771	0	0.0234	4.1004	0.5313	0	-0.143	0.3883
54	10.2	10.4	4.0772	0	0.0222	4.0994	0.5424	0	-0.1324	0.4099
55	10.7	10.4	4.0783	0	0.0242	4.1025	0.5566	0	-0.1255	0.4311
56	11.6	10.4	4.0788	0	0.024	4.1028	0.5677	0	-0.1484	0.4193
57	10.9	10.4	4.0791	0	0.0247	4.1038	0.5798	0	-0.1699	0.4099
58	10.5	10.5	4.0792	0	0.0254	4.1046	0.5922	0	-0.1569	0.4353
59	10.3	10.5	4.0792	0	0.0262	4.1053	0.6036	0	-0.159	0.4446
60	10.2	10.5	4.079	0	0.0266	4.1056	0.6127	0	-0.1589	0.4538
61	10.2	10.4	4.0786	0	0.0265	4.1051	0.618	0	-0.1589	0.4591
62	10	10.4	4.078	0	0.0267	4.1047	0.6269	0	-0.1821	0.4448
63	10.2	10.5	4.0771	0	0.0257	4.1027	0.6292	0	-0.1879	0.4412
64	10.3	10.5	4.0758	0	0.0258	4.1016	0.6308	0	-0.1964	0.4343
65	9.89	10.5	4.0744	0	0.0259	4.1003	0.6347	0	-0.1814	0.4533

66	10.1	10.5	4.073	0	0.0255	4.0985	0.6376	0	-0.1701	0.4675
67	10.8	10.5	4.0716	0	0.0245	4.0961	0.6383	0	-0.1831	0.4552
68	10.9	10.5	4.0705	0	0.0234	4.0939	0.6386	0	-0.1963	0.4423
69	10.5	10.5	4.0698	0	0.0247	4.0944	0.6368	0	-0.2513	0.3855
70	10.5	10.5	4.069	0	0.024	4.0929	0.6374	0	-0.2151	0.4223
71	10.7	10.5	4.0678	0	0.0236	4.0914	0.6378	0	-0.2052	0.4326
72	10.8	10.5	4.0668	0	0.0256	4.0924	0.6398	0	-0.2006	0.4391
73	10.8	10.6	4.0661	0	0.0262	4.0923	0.645	0	-0.2033	0.4417
74	10.7	10.6	4.066	0	0.0263	4.0923	0.6504	0	-0.2069	0.4435
75	10.7	10.6	4.0659	0	0.0268	4.0927	0.6556	0	-0.2058	0.4499
76	10.8	10.7	4.065	0	0.0274	4.0924	0.6588	0	-0.2218	0.437
77	10.7	10.7	4.064	0	0.0275	4.0914	0.6656	0	-0.2277	0.438
78	10.5	10.8	4.0637	0	0.0264	4.0901	0.6685	0	-0.2072	0.4613
79	10.4	10.8	4.0636	0	0.0273	4.0909	0.6668	0	-0.1973	0.4695
80	10.6	10.8	4.063	0	0.0274	4.0904	0.6627	0	-0.1801	0.4826
81	10.6	10.9	4.062	0	0.0279	4.0899	0.6641	0	-0.1705	0.4937
82	10.5	10.9	4.0609	0	0.0288	4.0897	0.671	0	-0.1798	0.4912
83	10.6	10.9	4.0601	0	0.03	4.0901	0.6787	0	-0.1802	0.4985
84	10.7	10.9	4.0596	0	0.0314	4.091	0.6847	0	-0.1703	0.5144
85	10.8	10.9	4.0586	0	0.0322	4.0908	0.6859	0	-0.1959	0.49
86	12	11	4.0577	0	0.0301	4.0878	0.6838	0	-0.19	0.4938
87	11.7	11	4.0567	0	0.0314	4.0882	0.6763	0	-0.2005	0.4759
88	11	11	4.0557	0	0.0315	4.0872	0.672	0	-0.2037	0.4683
89	11.1	11.1	4.0548	0	0.0318	4.0867	0.6738	0	-0.2399	0.4339
90	11.6	11.1	4.0543	0	0.0305	4.0848	0.6842	0	-0.2641	0.4201
91	11.4	11.2	4.0537	0	0.0291	4.0828	0.7009	0	-0.2352	0.4657
92	10.7	11.2	4.0528	0	0.0291	4.0819	0.7144	0	-0.2263	0.4881
93	11.4	11.2	4.052	0	0.0288	4.0808	0.7203	0	-0.2129	0.5074
94	10.7	11.3	4.0511	0	0.0287	4.0798	0.7372	0	-0.226	0.5113
95	11.3	11.3	4.0503	0	0.0277	4.078	0.7447	0	-0.2193	0.5254
96	10.9	11.2	4.0493	0	0.0281	4.0775	0.7509	0	-0.2022	0.5487
97	11.2	11.2	4.0483	0	0.0282	4.0765	0.7566	0	-0.1922	0.5645
98	11.6	11.3	4.0473	0	0.0281	4.0754	0.7617	0	-0.1848	0.5768
99	11.8	11.3	4.0462	0	0.0281	4.0744	0.7701	0	-0.181	0.5891
100	11.6	11.3	4.0452	0	0.0283	4.0735	0.7767	0	-0.177	0.5997
101	11.1	11.3	4.0448	0	0.0285	4.0733	0.7811	0	-0.1616	0.6194
102	10.9	11.4	4.0439	0	0.0277	4.0716	0.7934	0	-0.1528	0.6406

103	11.5	11.5	4.0432	0	0.026	4.0691	0.8074	0	-0.1435	0.6639
104	11.2	11.5	4.0422	0	0.0243	4.0665	0.8166	0	-0.1518	0.6648
105	10.9	11.6	4.0414	0	0.0248	4.0662	0.827	0	-0.1643	0.6627
106	11.3	11.6	4.0406	0	0.0258	4.0665	0.8474	0	-0.145	0.7023
107	11.6	11.6	4.0397	0	0.0259	4.0656	0.8617	0	-0.1498	0.7119
108	11.4	11.6	4.0387	0	0.0254	4.0641	0.8744	0	-0.1329	0.7415
109	11.7	11.7	4.0378	0	0.0254	4.0632	0.8848	0	-0.1221	0.7627
110	12.5	11.7	4.0371	0	0.0247	4.0619	0.8995	0	-0.1158	0.7837
111	11.8	11.8	4.0361	0	0.027	4.0631	0.9126	0	-0.1173	0.7953
112	12.6	11.9	4.0357	0	0.0271	4.0628	0.9194	0	-0.1264	0.793
113	12	12	4.0352	0	0.028	4.0632	0.9241	0	-0.1363	0.7878
114	12	12.1	4.0343	0	0.0274	4.0617	0.9256	0	-0.1561	0.7695
115	12	12.2	4.0334	0	0.0268	4.0602	0.9226	0	-0.1541	0.7685
116	11.5	12.2	4.0329	0	0.0279	4.0608	0.9233	0	-0.1408	0.7824
117	11.9	12.3	4.032	0	0.0291	4.0611	0.9235	0	-0.1206	0.8029
118	12.7	12.4	4.0315	0	0.0347	4.0662	0.9213	0	-0.1228	0.7984
119	12	12.5	4.0309	0	0.0312	4.0621	0.9315	0	-0.1283	0.8033
120	12.6	12.5	4.0303	0	0.0311	4.0614	0.9403	0	-0.1097	0.8306
121	13	12.6	4.0297	0	0.031	4.0607	0.9429	0	-0.1113	0.8316
122	12.8	12.7	4.0288	0	0.0308	4.0596	0.9379	0	-0.1128	0.825
123	12.6	12.8	4.0279	0	0.031	4.0589	0.9306	0	-0.093	0.8377
124	12.8	12.9	4.0269	0	0.0313	4.0582	0.9319	0	-0.0813	0.8506
125	12.5	13.1	4.0257	0	0.0317	4.0574	0.9474	0	-0.0905	0.8569
126	13	13.2	4.0246	0	0.0334	4.058	0.9592	0	-0.0814	0.8778
127	13	13.3	4.0234	0	0.0322	4.0556	0.9628	0	-0.071	0.8917
128	13.4	13.4	4.0225	0	0.0321	4.0546	0.9643	0	-0.0967	0.8676
129	14	13.5	4.022	0	0.0319	4.0539	0.9755	0	-0.119	0.8565
130	13.9	13.6	4.0211	0	0.0321	4.0532	0.9931	0	-0.1008	0.8922
131	13.6	13.7	4.0199	0	0.0325	4.0525	1.0052	0	-0.0966	0.9085
132	13.8	13.7	4.0189	0	0.0328	4.0517	1.0041	0	-0.0828	0.9213
133	13.9	13.8	4.018	0	0.0333	4.0513	1.0064	0	-0.0642	0.9422
134	14.9	13.9	4.017	0	0.0347	4.0517	1.0148	0	-0.0574	0.9573
135	14.6	14	4.0165	0	0.0343	4.0508	1.0232	0	-0.0511	0.9721
136	14.2	14.1	4.0164	0	0.0358	4.0522	1.0229	0	-0.0465	0.9764
137	13.9	14.2	4.0159	0	0.0358	4.0516	1.0261	0	-0.08	0.9462
138	13.9	14.3	4.0149	0	0.0385	4.0534	1.0288	0	-0.0754	0.9534
139	14.2	14.4	4.0137	0	0.0408	4.0545	1.0271	0	-0.0622	0.9649

140	14.4	14.5	4.0125	0	0.0402	4.0527	1.028	0	-0.0472	0.9809
141	14.3	14.6	4.0116	0	0.0409	4.0525	1.0353	0	-0.07	0.9653
142	14.2	14.6	4.0104	0	0.0387	4.0491	1.0405	0	-0.0438	0.9967
143	13.9	14.6	4.0085	0	0.0391	4.0476	1.0418	0	-0.0845	0.9572
144	14.7	14.6	4.0073	0	0.0384	4.0458	1.0456	0	-0.0919	0.9537
145	15	14.6	4.0062	0	0.0379	4.0441	1.0505	0	-0.0908	0.9598
146	15	14.6	4.005	0	0.0389	4.0438	1.0595	0	-0.1086	0.9509
147	15.3	14.6	4.0039	0	0.04	4.0438	1.0683	0	-0.1075	0.9608
148	15.4	14.7	4.0027	0	0.0395	4.0422	1.0699	0	-0.1139	0.956
149	15.3	14.7	4.0014	0	0.0395	4.0409	1.0788	0	-0.1101	0.9687
150	15.6	14.7	4.0004	0	0.039	4.0395	1.0837	0	-0.1045	0.9791
151	14.6	14.7	3.9985	0	0.0389	4.0374	1.0894	0	-0.106	0.9834
152	14.5	14.7	3.9966	0	0.0382	4.0348	1.1016	0	-0.1129	0.9887
153	14.9	14.7	3.9954	0	0.0385	4.0339	1.1105	0	-0.1292	0.9814
154	14.8	14.7	3.9945	0	0.0387	4.0332	1.1206	0	-0.1545	0.9661
155	14.1	14.6	3.9936	0	0.0387	4.0323	1.1248	0	-0.1756	0.9492
156	13.9	14.6	3.9927	0	0.039	4.0317	1.1408	0	-0.1378	1.0029
157	14.7	14.5	3.9917	0	0.038	4.0296	1.1484	0	-0.1455	1.0029
158	14.5	14.4	3.9907	0	0.0376	4.0283	1.1558	0	-0.1784	0.9774
159	14.4	14.3	3.9892	0	0.0378	4.027	1.1654	0	-0.1619	1.0035
160	14.6	14.2	3.9877	0	0.0384	4.0261	1.181	0	-0.1467	1.0344
161	14.3	14.1	3.9866	0	0.0392	4.0258	1.1963	0	-0.1497	1.0466
162	14	14.1	3.9856	0	0.0403	4.0259	1.2033	0	-0.1205	1.0827
163	14.1	14.1	3.9845	0	0.0413	4.0258	1.2218	0	-0.1196	1.1022
164	14.3	14.1	3.9835	0	0.0413	4.0248	1.2395	0	-0.1086	1.1309
165	13.5	14.2	3.9821	0	0.04	4.0221	1.2483	0	-0.1067	1.1416
166	13.3	14.2	3.9807	0	0.0376	4.0182	1.2596	0	-0.1229	1.1368
167	13.4	14.3	3.9795	0	0.0367	4.0163	1.2724	0	-0.1248	1.1476
168	13.7	14.3	3.9774	0	0.0362	4.0136	1.2837	0	-0.1178	1.1659
169	13.8	14.4	3.9757	0	0.0356	4.0114	1.303	0	-0.0595	1.2434
170	14	14.5	3.9747	0	0.0351	4.0098	1.3202	0	-0.0927	1.2275
171	14.4	14.6	3.974	0	0.0349	4.0089	1.3364	0	-0.0965	1.2399
172	14.4	14.8	3.9738	0	0.0349	4.0086	1.3524	0	-0.1076	1.2449
173	14.8	14.9	3.973	0	0.0343	4.0072	1.3709	0	-0.1035	1.2674
174	14.7	15.1	3.9713	0	0.0353	4.0066	1.3869	0	-0.0999	1.2869
175	15.3	15.3	3.97	0	0.035	4.0049	1.402	0	-0.0992	1.3028
176	15.3	15.4	3.9687	0	0.0345	4.0032	1.4127	0	-0.0958	1.3169

177	15.6	15.5	3.9675	0	0.0371	4.0047	1.4256	0	-0.0744	1.3511
178	15.7	15.6	3.9662	0	0.0383	4.0044	1.443	0	-0.0726	1.3705
179	16.1	15.8	3.9643	0	0.0374	4.0017	1.473	0	-0.0884	1.3846
180	17.2	15.9	3.9625	0	0.0371	3.9995	1.4825	0	-0.0887	1.3938
181	17.3	16	3.9616	0	0.0362	3.9978	1.495	0	-0.0752	1.4198
182	16.2	16.1	3.9602	0	0.0352	3.9955	1.5103	0	-0.0754	1.4349
183	17.7	16.3	3.9586	0	0.0358	3.9944	1.5305	0	-0.0843	1.4462
184	17	16.4	3.9573	0	0.0366	3.9938	1.5554	0	-0.0747	1.4807
185	16	16.5	3.9563	0	0.0369	3.9932	1.5709	0	-0.0573	1.5136
186	15.8	16.5	3.9551	0	0.0381	3.9932	1.5893	0	-0.0766	1.5127
187	16	16.6	3.9539	0	0.039	3.9928	1.6209	0	-0.0634	1.5574
188	16.2	16.7	3.953	0	0.0377	3.9907	1.6473	0	-0.0788	1.5686
189	16	16.8	3.952	0	0.0365	3.9886	1.6727	0	-0.0585	1.6142
190	17.3	16.8	3.9508	0	0.0375	3.9883	1.6987	0	-0.0119	1.6868
191	16.5	16.8	3.9497	0	0.0335	3.9831	1.7146	0	0.0075	1.7221
192	16.9	16.9	3.9486	0	0.0376	3.9861	1.7417	0	-0.0072	1.7344
193	17.1	16.9	3.9474	0	0.038	3.9854	1.7648	0	-0.0559	1.7089
194	17	17	3.946	0	0.0378	3.9838	1.7741	0	-0.0442	1.73
195	16.7	17.1	3.9443	0	0.0386	3.9829	1.8003	0	-0.0484	1.7519
196	16.8	17.2	3.9425	0	0.0389	3.9814	1.8367	0	-0.0557	1.781
197	17.4	17.3	3.9413	0	0.0396	3.9809	1.8663	0	-0.0472	1.819
198	17.4	17.5	3.9395	0	0.0391	3.9786	1.8847	0	-0.0363	1.8484
199	17.6	17.6	3.9379	0	0.0386	3.9765	1.9099	0	-0.0369	1.873
200	17.7	17.6	3.9363	0	0.0389	3.9752	1.9443	0	-0.0184	1.9259
201	18	17.7	3.9346	0	0.0398	3.9744	1.9611	0	-0.0652	1.896
202	18.3	17.8	3.9328	0	0.0406	3.9735	1.9719	0	-0.0291	1.9428
203	18.4	18	3.9311	0	0.0414	3.9725	1.9773	0	-0.0599	1.9174
204	17.9	18.2	3.9297	0	0.0419	3.9715	1.9916	0	-0.0496	1.942
205	17.8	18.4	3.9274	0	0.0385	3.9659	2.0079	0	-0.0345	1.9733
206	18.4	18.7	3.9258	0	0.0404	3.9662	2.0271	0	-0.0456	1.9815
207	18.9	18.9	3.9241	0	0.0437	3.9678	2.0553	0	-0.05	2.0053
208	17.7	19.2	3.9222	0	0.0416	3.9638	2.0701	0	-0.0629	2.0072
209	17.5	19.5	3.9197	0	0.0401	3.9598	2.1029	0	-0.0205	2.0824
210	18.6	19.7	3.9175	0	0.0397	3.9572	2.1302	0	-0.0692	2.061
211	19.8	20	3.9157	0	0.0391	3.9548	2.1585	0	-0.0245	2.134
212	20.8	20.3	3.9135	0	0.0391	3.9526	2.1838	0	-0.0135	2.1704
213	19.5	20.5	3.9112	0	0.0389	3.9501	2.2091	0	-0.0056	2.2035

214	21.4	20.8	3.9095	0	0.0381	3.9475	2.2374	0	0.0103	2.2477
215	21.9	21.1	3.9075	0	0.0391	3.9465	2.2713	0	0.0016	2.2729
216	22.2	21.4	3.9056	0	0.0404	3.946	2.309	0	-0.0173	2.2917
217	22.4	21.8	3.9036	0	0.0409	3.9445	2.3401	0	-0.0607	2.2794
218	22.3	22.1	3.9012	0	0.0407	3.9419	2.3909	0	-0.0654	2.3255
219	22.6	22.5	3.8989	0	0.0405	3.9394	2.4197	0	-0.0762	2.3434
220	23.7	22.8	3.8967	0	0.0408	3.9374	2.45	0	-0.0941	2.3559
221	22.9	23.2	3.8944	0	0.0417	3.9362	2.4827	0	-0.0929	2.3898
222	23.7	23.5	3.8917	0	0.0411	3.9329	2.5172	0	-0.0764	2.4408
223	22.8	23.8	3.8892	0	0.041	3.9302	2.5586	0	-0.0603	2.4983
224	23.5	24.1	3.8867	0	0.0412	3.9279	2.6026	0	-0.0621	2.5405
225	25	24.3	3.8844	0	0.0413	3.9257	2.6381	0	-0.0958	2.5423
226	25.1	24.4	3.882	0	0.0408	3.9229	2.6664	0	-0.084	2.5824
227	23.4	24.6	3.8791	0	0.0394	3.9185	2.7034	0	-0.0603	2.6431
228	25.3	24.9	3.8752	0	0.0409	3.9161	2.7378	0	-0.0126	2.7251
229	25.5	25.2	3.8737	0	0.0408	3.9145	2.7685	0	0.0127	2.7811
230	26.5	25.6	3.8716	0	0.0396	3.9112	2.7967	0	0.0031	2.7998
231	26.6	25.9	3.8689	0	0.0401	3.909	2.8263	0	0.0008	2.8271
232	26.2	26.2	3.8659	0	0.0412	3.9071	2.8646	0	0.0074	2.872
233	26.5	26.5	3.8624	0	0.0408	3.9032	2.9054	0	-0.0285	2.8769
234	25	26.8	3.8599	0	0.0404	3.9003	2.9388	0	-0.0032	2.9356
235	25.6	27.2	3.8575	0	0.042	3.8995	2.9675	0	0.0234	2.9909
236	26	27.5	3.8543	0	0.0421	3.8964	3.0168	0	0.0048	3.0216
237	27.4	27.9	3.8512	0	0.0436	3.8948	3.0502	0	0.0005	3.0507
238	29	28.2	3.8477	0	0.0443	3.892	3.0759	0	-0.0025	3.0735
239	29.8	28.5	3.8438	0	0.042	3.8859	3.116	0	-0.0249	3.0911
240	29.5	28.8	3.841	0	0.0394	3.8805	3.16	0	-0.0202	3.1399
241	28.5	29.1	3.8374	0	0.0416	3.879	3.2076	0	-0.0024	3.2052
242	28.8	29.5	3.8339	0	0.0443	3.8782	3.2413	0	-0.0471	3.1942
243	30.3	29.9	3.8311	0	0.0435	3.8746	3.2798	0	0.0083	3.2881
244	30.9	30.4	3.8273	0	0.0433	3.8706	3.3125	0	0.0333	3.3457
245	31.7	30.8	3.8225	0	0.0435	3.866	3.3487	0	0.0329	3.3816
246	31.4	31.3	3.8183	0	0.0436	3.8619	3.3837	0	0.0331	3.4168
247	30.1	31.7	3.8154	0	0.0436	3.859	3.4197	0	0.0353	3.455
248	31.3	32	3.8117	0	0.0432	3.8549	3.4673	0	0.0524	3.5196
249	31.9	32.3	3.807	0	0.0413	3.8483	3.4806	0	0.0462	3.5268
250	32.2	32.7	3.8043	0	0.0455	3.8499	3.5145	0	0.0507	3.5652

251	34.5	33.2	3.8013	0	0.0418	3.8431	3.5504	0	0.0247	3.5751
252	34.4	33.6	3.7988	0	0.0442	3.8431	3.5841	0	0.0225	3.6066
253	33.3	33.9	3.7962	0	0.0435	3.8397	3.6126	0	0.0235	3.6361
254	33.7	34.2	3.7937	0	0.0421	3.8358	3.6411	0	-0.0087	3.6324
255	35.1	34.3	3.7908	0	0.0433	3.8341	3.6777	0	-0.0548	3.6229
256	35.1	34.4	3.7871	0	0.044	3.8311	3.6993	0	-0.003	3.6963
257	36.1	34.8	3.7847	0	0.0443	3.8289	3.7304	0	-0.0184	3.7121
258	34.7	35.1	3.7804	0	0.0397	3.8201	3.7585	0	0.0079	3.7663
259	38.1	35.5	3.7762	0	0.0447	3.8209	3.788	0	-0.0134	3.7746
260	37.1	36	3.7719	0	0.0408	3.8127	3.8112	0	-0.014	3.7973
261	36.3	36.4	3.7682	0	0.0405	3.8088	3.8373	0	-0.0092	3.8282
262	36.3	36.9	3.7647	0	0.0409	3.8055	3.8704	0	-0.0182	3.8521
263	35.6	37.6	3.7608	0	0.0403	3.801	3.898	0	-0.0016	3.8964
264	34.1	38.1	3.7564	0	0.0411	3.7975	3.9315	0	-0.0155	3.916
265	34.3	38.7	3.7512	0	0.0417	3.7929	3.9679	0	-0.0363	3.9316
266	36.3	39.3	3.7467	0	0.0436	3.7903	4.0057	0	-0.0336	3.9722
267	38	39.8	3.7404	0	0.0433	3.7837	4.0397	0	-0.0295	4.0103
268	40.2	40.4	3.7354	0	0.0439	3.7793	4.0758	0	-0.0229	4.0529
269	41.7	41	3.7307	0	0.045	3.7758	4.1099	0	-0.0091	4.1008
270	41.6	41.6	3.7264	0	0.0444	3.7708	4.1325	0	-0.0101	4.1223
271	43.2	42.1	3.7223	0	0.0425	3.7648	4.1564	0	-0.0722	4.0842
272	45.9	42.7	3.7179	0	0.0409	3.7588	4.185	0	-0.021	4.164
273	44.4	43.6	3.7127	0	0.0405	3.7532	4.2088	0	-0.0289	4.1799
274	45.6	44.4	3.7075	0	0.0449	3.7524	4.2391	0	-0.0496	4.1894
275	48	45.1	3.7033	0	0.0434	3.7467	4.2684	0	-0.0592	4.2092
276	44.3	45.7	3.6984	0	0.0405	3.7389	4.2986	0	-0.0465	4.2521
277	47.1	46.3	3.6938	0	0.0384	3.7321	4.3298	0	-0.0309	4.2989
278	48.9	46.8	3.6893	0	0.037	3.7263	4.3512	0	-0.0461	4.3051
279	48.3	47.3	3.6846	0	0.0371	3.7217	4.3624	0	-0.0339	4.3285
280	46.9	47.7	3.6799	0	0.037	3.7168	4.4016	0	-0.037	4.3646
281	46.7	48.3	3.6752	0	0.0354	3.7106	4.4305	0	-0.0504	4.3801
282	52.1	48.7	3.6697	0	0.0381	3.7078	4.4556	0	-0.0426	4.413
283	49.5	49.2	3.6647	0	0.0361	3.7008	4.4725	0	-0.0318	4.4407
284	47.9	49.7	3.6605	0	0.0342	3.6947	4.4896	0	-0.0504	4.4392
285	48	50	3.6546	0	0.0364	3.691	4.5301	0	-0.0656	4.4644
286	49.3	50.6	3.6501	0	0.0381	3.6881	4.5747	0	-0.036	4.5387
287	50.7	51.1	3.6463	0	0.0392	3.6855	4.5899	0	-0.0328	4.5571

288	50.5	51.5	3.6414	0	0.0402	3.6816	4.6127	0	-0.0727	4.54
289	48.8	51.8	3.636	0	0.0385	3.6746	4.6217	0	-0.0107	4.6111
290	55.1	52	3.6301	0	0.0377	3.6678	4.6323	0	-0.0012	4.6311
291	53.8	52.4	3.6256	0	0.0382	3.6637	4.6617	0	-0.0198	4.6419
292	53.2	52.5	3.6206	0	0.0367	3.6573	4.6925	0	-0.0217	4.6708
293	54.4	52.7	3.6162	0	0.0346	3.6508	4.7251	0	-0.01	4.7152
294	55.1	53.1	3.6112	0	0.0345	3.6457	4.7477	0	0.0154	4.7631
295	55.8	53.3	3.606	0	0.0353	3.6412	4.7372	0	-0.0089	4.7283
296	56.5	53.6	3.6005	0	0.0354	3.6359	4.7356	0	0.0117	4.7473
297	55	53.8	3.5946	0	0.0343	3.6289	4.7352	0	0.01	4.7452
298	54	53.8	3.5914	0	0.0345	3.6259	4.7488	0	0.0097	4.7585
299	51.5	54	3.5864	0	0.0335	3.6199	4.7652	0	-0.0233	4.7419
300	54.4	53.8	3.5812	0	0.0364	3.6176	4.7726	0	-0.038	4.7346
301	53.7	53.7	3.5762	0	0.0375	3.6137	4.8018	0	0.0412	4.8431
302	53.3	53.6	3.5716	0	0.0383	3.6098	4.834	0	0.0102	4.8442
303	55.1	53.5	3.567	0	0.0423	3.6093	4.8625	0	0.0434	4.9059
304	52.8	53.5	3.5619	0	0.0473	3.6092	4.8864	0	0.0176	4.904
305	55.3	53.6	3.5574	0	0.0389	3.5963	4.9215	0	0.0098	4.9312
306	54.4	53.8	3.5528	0	0.0422	3.595	4.9517	0	0.0267	4.9784
307	50.6	54.1	3.5483	0	0.0429	3.5912	4.9741	0	0.0333	5.0075
308	51.5	54.5	3.5434	0	0.0429	3.5863	5.0086	0	0.0311	5.0397
309	52.5	55	3.5386	0	0.0414	3.5801	5.0194	0	-0.021	4.9984
310	51.7	55.3	3.5338	0	0.0406	3.5744	5.0413	0	0.0258	5.0671
311	51	55.7	3.5287	0	0.0409	3.5696	5.0543	0	-0.0217	5.0326
312	52.7	56.2	3.5237	0	0.0392	3.5629	5.0713	0	-0.0184	5.0529
313	55.2	56.3	3.5181	0	0.0405	3.5586	5.0878	0	-0.0187	5.0691
314	57.7	56.6	3.5127	0	0.0417	3.5544	5.1019	0	-0.0352	5.0667
315	59.7	56.8	3.5069	0	0.0424	3.5493	5.1146	0	-0.0309	5.0838
316	60.3	57.2	3.5017	0	0.0433	3.545	5.1241	0	-0.0271	5.097
317	61.7	57.7	3.496	0	0.0432	3.5392	5.1435	0	0.0019	5.1454
318	62.1	58.2	3.4902	0	0.0416	3.5318	5.144	0	0.0535	5.1975
319	59.3	58.7	3.4856	0	0.0415	3.5271	5.1497	0	0.0356	5.1853
320	61.4	59.2	3.481	0	0.048	3.529	5.1592	0	0.0334	5.1927
321	62.2	59.6	3.4759	0	0.0438	3.5198	5.1689	0	0.0192	5.188
322	57.7	60	3.4709	0	0.044	3.5149	5.1801	0	-0.0058	5.1743
323	58.1	60.2	3.4653	0	0.046	3.5113	5.194	0	-0.0163	5.1777
324	59.9	60.4	3.4599	0	0.0471	3.507	5.2021	0	-0.0254	5.1768

325	60.8	60.3	3.4545	0	0.046	3.5005	5.2315	0	-0.0028	5.2344
326	61.1	60.2	3.4491	0	0.0439	3.493	5.2488	0	-0.018	5.2308
327	61.5	60.1	3.4439	0	0.044	3.488	5.2618	0	-0.051	5.2108
328	60.2	60.2	3.439	0	0.0443	3.4833	5.2615	0	-0.0776	5.1838
329	61.6	60.3	3.4336	0	0.0445	3.4781	5.2648	0	-0.0925	5.1723
330	59.9	60.1	3.4286	0	0.0447	3.4732	5.2872	0	-0.0872	5.2
331	59.4	59.9	3.4234	0	0.0443	3.4677	5.303	0	-0.0865	5.2165
332	59.8	60	3.4186	0	0.0444	3.463	5.3235	0	-0.1185	5.205
333	60	60.1	3.4135	0	0.0458	3.4593	5.3204	0	-0.0713	5.2492
334	59.1	60.1	3.4069	0	0.047	3.4539	5.3261	0	-0.0334	5.2926
335	57.6	60.1	3.4001	0	0.0456	3.4457	5.3545	0	-0.08	5.2745
336	60.8	60.1	3.3953	0	0.0454	3.4407	5.3604	0	-0.0519	5.3085
337	64.2	59.9	3.3899	0	0.0509	3.4408	5.3689	0	-0.0179	5.3509
338	60	59.8	3.3855	0	0.0454	3.4309	5.3852	0	-0.0338	5.3513
339	58.4	59.8	3.3806	0	0.0422	3.4228	5.4051	0	-0.002	5.4031
340	58.1	59.8	3.3749	0	0.0414	3.4163	5.4294	0	-0.0126	5.4168
341	59.1	59.7	3.3681	0	0.0438	3.412	5.422	0	-0.0321	5.3899
342	60.4	59.7	3.3614	0	0.0453	3.4067	5.4436	0	-0.0293	5.4142
343	60	59.7	3.3563	0	0.042	3.3983	5.4527	0	-0.048	5.4047
344	61.3	59.9	3.3536	0	0.0442	3.3978	5.4699	0	-0.0835	5.3865
345	61	60.1	3.3489	0	0.0423	3.3913	5.4851	0	-0.0998	5.3852
346	57	60.1	3.3448	0	0.0426	3.3874	5.5002	0	-0.0956	5.4046
347	58.8	59.9	3.3405	0	0.0426	3.3831	5.5302	0	-0.0972	5.4331
348	60.7	59.8	3.3352	0	0.0455	3.3807	5.5237	0	-0.1241	5.3996
349	59.9	59.9	3.3297	0	0.0451	3.3748	5.5583	0	-0.1036	5.4548
350	58.5	60.1	3.3241	0	0.0414	3.3656	5.568	0	-0.1347	5.4333
351	59.5	60.4	3.3179	0	0.0408	3.3587	5.5772	0	-0.1056	5.4715
352	60	60.7	3.3126	0	0.0399	3.3525	5.5875	0	-0.073	5.5145
353	62.2	61	3.3076	0	0.0417	3.3493	5.6102	0	-0.0465	5.5637
354	61.4	61.1	3.3016	0	0.0411	3.3427	5.6407	0	-0.0035	5.6373
355	60.9	61.2	3.2957	0	0.0406	3.3363	5.6316	0	0.0453	5.677
356	60.5	61.7	3.2897	0	0.0407	3.3304	5.6717	0	-0.0414	5.6303
357	59.6	62.3	3.2838	0	0.0411	3.325	5.688	0	-0.0113	5.6767
358	59.2	62.7	3.2785	0	0.0418	3.3203	5.7118	0	-0.0123	5.6995
359	62.2	63	3.2721	0	0.0421	3.3142	5.733	0	-0.0115	5.7216
360	64.3	63.4	3.2664	0	0.043	3.3094	5.7502	0	-0.0218	5.7284
361	65.9	63.7	3.2611	0	0.0424	3.3035	5.7638	0	-0.0307	5.7331

362	65.4	64	3.2559	0	0.0427	3.2986	5.7856	0	-0.0339	5.7518
363	63.8	64.3	3.2506	0	0.0438	3.2943	5.8225	0	-0.0516	5.7708
364	63.8	64.5	3.2449	0	0.0442	3.2891	5.8287	0	-0.0394	5.7892
365	66.6	65	3.2388	0	0.0444	3.2832	5.8549	0	-0.0177	5.8373
366	69.4	65.4	3.2323	0	0.0434	3.2758	5.8621	0	0.0045	5.8666
367	68.7	65.9	3.226	0	0.0379	3.264	5.8742	0	0.0284	5.9026
368	65.8	66.4	3.2204	0	0.0403	3.2607	5.8872	0	0.0316	5.9188
369	65.4	66.7	3.2148	0	0.0417	3.2565	5.8954	0	0.0032	5.8986
370	65.2	67	3.2095	0	0.0425	3.252	5.929	0	-0.0179	5.9111
371	65.7	67.3	3.2043	0	0.0431	3.2474	5.9433	0	0.0541	5.9974
372	68	67.5	3.1985	0	0.0425	3.241	5.9672	0	0.0394	6.0066
373	66	67.8	3.1925	0	0.043	3.2355	5.9789	0	0.0474	6.0263
374	68.7	68	3.1843	0	0.0446	3.229	5.9889	0	0.0541	6.043
375	68.3	68.2	3.1784	0	0.0452	3.2236	6.0081	0	0.0554	6.0635
376	69.6	68.2	3.1722	0	0.0456	3.2178	6.0272	0	0.0549	6.082
377	68.9	68.3	3.1676	0	0.0461	3.2138	6.0484	0	0.0581	6.1065
378	68	68.6	3.1628	0	0.0463	3.2091	6.0879	0	0.0717	6.1596
379	69.8	68.8	3.1559	0	0.0458	3.2017	6.0982	0	0.1011	6.1993
380	70.9	69	3.1496	0	0.0456	3.1952	6.1159	0	0.0918	6.2077
381	69.6	69.4	3.1428	0	0.0473	3.1901	6.1331	0	0.0992	6.2323
382	68.9	69.6	3.1377	0	0.0452	3.1829	6.1547	0	0.0985	6.2532
383	69.4	70.1	3.1321	0	0.0395	3.1716	6.182	0	0.0975	6.2795
384	69.4	70.6	3.1251	0	0.0422	3.1673	6.203	0	0.1141	6.3171
385	69.6	71	3.1186	0	0.0416	3.1601	6.2151	0	0.1345	6.3496
386	70.8	71.3	3.1132	0	0.0398	3.153	6.2119	0	0.1403	6.3522
387	71.8	71.6	3.1077	0	0.0426	3.1503	6.245	0	0.1699	6.4149
388	69.4	72.1	3.1009	0	0.0404	3.1413	6.2651	0	0.2241	6.4892
389	69.1	72.3	3.0931	0	0.0398	3.1329	6.2848	0	0.1759	6.4607
390	73	72.6	3.0879	0	0.0409	3.1288	6.3105	0	0.1712	6.4816
391	72	73	3.0812	0	0.0411	3.1223	6.3259	0	0.1888	6.5146
392	75.1	73.5	3.0753	0	0.0415	3.1169	6.3183	0	0.2189	6.5372
393	77	73.8	3.0692	0	0.043	3.1122	6.323	0	0.2458	6.5688
394	76.5	74.1	3.0627	0	0.0445	3.1071	6.3489	0	0.1551	6.504
395	75.7	74.4	3.0559	0	0.0448	3.1008	6.4044	0	0.2633	6.6677
396	74.3	74.7	3.0475	0	0.0451	3.0926	6.4266	0	0.2599	6.6865
397	78.1	74.9	3.0422	0	0.0467	3.089	6.4563	0	0.2627	6.719
398	73.8	75.3	3.0356	0	0.0449	3.0804	6.4949	0	0.2801	6.7749

399	76.1	75.8	3.0296	0	0.047	3.0766	6.5287	0	0.3332	6.8619
400	78	76.1	3.0235	0	0.047	3.0705	6.544	0	0.2883	6.8323
401	77.5	76.5	3.0174	0	0.0448	3.0623	6.5696	0	0.2582	6.8278
402	75.4	76.8	3.0105	0	0.0429	3.0535	6.57	0	0.2501	6.8201
403	74.1	76.8	3.0029	0	0.0426	3.0456	6.592	0	0.2412	6.8332
404	75.8	77	2.9987	0	0.0428	3.0416	6.6287	0	0.2509	6.8797
405	76.4	77.3	2.9903	0	0.043	3.0332	6.6502	0	0.2409	6.891
406	75.9	77.5	2.984	0	0.0433	3.0273	6.6623	0	0.227	6.8893
407	77.6	77.5	2.9771	0	0.0441	3.0212	6.685	0	0.1524	6.8374
408	78.6	77.9	2.9701	0	0.0441	3.0142	6.6887	0	0.1854	6.8741
409	78.6	78.3	2.9636	0	0.0436	3.0072	6.7157	0	0.1878	6.9035
410	78.9	78.5	2.9574	0	0.0437	3.0011	6.7393	0	0.1887	6.928
411	80.3	78.7	2.9501	0	0.0443	2.9945	6.7561	0	0.2166	6.9727
412	78.4	79	2.9414	0	0.0444	2.9858	6.7797	0	0.2324	7.0121
413	79.4	79.3	2.9352	0	0.0444	2.9796	6.8073	0	0.2597	7.067
414	80.8	79.7	2.9272	0	0.0435	2.9707	6.8191	0	0.3086	7.1277
415	79	80.3	2.9207	0	0.042	2.9626	6.8372	0	0.3375	7.1747
416	78.8	80.8	2.9142	0	0.0405	2.9547	6.8572	0	0.3585	7.2157
417	81.3	81.2	2.9073	0	0.04	2.9473	6.8756	0	0.3648	7.2405
418	82.3	81.8	2.9007	0	0.0413	2.942	6.9047	0	0.3132	7.2179
419	81.5	82.2	2.8927	0	0.0433	2.936	6.9207	0	0.3201	7.2408
420	82.3	82.6	2.8867	0	0.0426	2.9293	6.9298	0	0.3319	7.2617
421	81	82.9	2.8792	0	0.0399	2.9191	6.9472	0	0.3619	7.3091
422	79.5	83.5	2.873	0	0.0393	2.9123	6.9666	0	0.3816	7.3482
423	83.5	84.1	2.8664	0	0.0406	2.907	6.9909	0	0.3519	7.3428
424	87.6	84.6	2.8591	0	0.0416	2.9007	7.0224	0	0.3319	7.3543
425	85.8	85.1	2.8518	0	0.0405	2.8923	7.0014	0	0.3355	7.3369
426	85.1	85.6	2.8442	0	0.0381	2.8823	7.0049	0	0.3312	7.3361
427	89.6	85.8	2.8352	0	0.0369	2.872	7.0124	0	0.3458	7.3582
428	87.3	86	2.8292	0	0.0342	2.8634	7.0433	0	0.3554	7.3987
429	84.9	86.3	2.822	0	0.0353	2.8573	7.0672	0	0.3617	7.4289
430	87.3	86.6	2.8153	0	0.0347	2.85	7.0561	0	0.3952	7.4513
431	89.6	87	2.8079	0	0.0345	2.8423	7.0736	0	0.4334	7.5071
432	90.8	87.8	2.8004	0	0.0347	2.8351	7.0808	0	0.4578	7.5385
433	90.6	88.4	2.7932	0	0.0344	2.8276	7.1143	0	0.4097	7.524
434	88.2	88.6	2.7854	0	0.0335	2.8189	7.1481	0	0.3296	7.4778
435	88.2	88.7	2.7789	0	0.0316	2.8105	7.1596	0	0.349	7.5086

436	84.7	89.2	2.7708	0	0.0284	2.7992	7.1598	0	0.3244	7.4843
437	85.5	89.6	2.7634	0	0.0285	2.7919	7.1881	0	0.2714	7.4595
438	88	90.1	2.757	0	0.0278	2.7848	7.2005	0	0.2928	7.4933
439	87.8	90.8	2.7496	0	0.025	2.7746	7.2188	0	0.291	7.5098
440	89.4	91.1	2.7423	0	0.0225	2.7648	7.2243	0	0.309	7.5333
441	95	91.4	2.7363	0	0.0219	2.7582	7.2426	0	0.3573	7.5999
442	94.1	91.5	2.7291	0	0.0207	2.7498	7.243	0	0.3987	7.6417
443	91.1	91.8	2.7214	0	0.0265	2.7479	7.2621	0	0.4228	7.6849
444	88	92.1	2.7132	0	0.0179	2.731	7.2763	0	0.4586	7.7349
445	94	92.5	2.7063	0	0.0163	2.7226	7.2943	0	0.4532	7.7475
446	97.8	93.2	2.6992	0	0.0163	2.7155	7.3128	0	0.4721	7.7849
447	97.6	94	2.691	0	0.0146	2.7057	7.3056	0	0.4882	7.7939
448	96.7	94.5	2.6823	0	0.0122	2.6945	7.3261	0	0.5201	7.8462
449	94.2	95.2	2.6753	0	0.0163	2.6916	7.3423	0	0.5388	7.8811
450	94.6	95.8	2.6672	0	0.0156	2.6828	7.3663	0	0.556	7.9224
451	92.5	96.2	2.6609	0	0.0158	2.6767	7.3912	0	0.5534	7.9446
452	95.7	96.6	2.6534	0	0.0158	2.6692	7.412	0	0.5229	7.9349
453	95.6	97.1	2.6447	0	0.0166	2.6614	7.411	0	0.4783	7.8893
454	94.2	97.6	2.6365	0	0.0171	2.6536	7.4077	0	0.37	7.7777
455	98.3	97.7	2.6295	0	0.0179	2.6473	7.4359	0	0.3167	7.7526
456	101	97.6	2.6212	0	0.0254	2.6466	7.4269	0	0.3332	7.7601
457	98.8	97.9	2.6149	0	0.0226	2.6375	7.4512	0	0.3729	7.8241
458	101	98.1	2.6069	0	0.023	2.6299	7.4698	0	0.4075	7.8773
459	101	98.2	2.5981	0	0.0232	2.6214	7.475	0	0.4201	7.895
460	102	98.4	2.5908	0	0.0213	2.6121	7.4792	0	0.4159	7.8951
461	103	98.9	2.5831	0	0.0191	2.6023	7.4875	0	0.4106	7.8981
462	101	99.3	2.5752	0	0.0168	2.5919	7.5001	0	0.431	7.9311
463	96.1	99.7	2.5687	0	0.0129	2.5816	7.482	0	0.4353	7.9173
464	97.1	100	2.5612	0	0.0104	2.5717	7.4983	0	0.4339	7.9322
465	95.7	100	2.5531	0	0.0086	2.5617	7.4995	0	0.4154	7.9149
466	103	100	2.5448	0	0.007	2.5517	7.5035	0	0.4082	7.9116
467	99.3	101	2.5356	0	0.0066	2.5422	7.4996	0	0.4398	7.9394
468	96.9	101	2.5284	0	0.0083	2.5367	7.5192	0	0.4433	7.9624
469	99	101	2.5218	0	0.0085	2.5303	7.5124	0	0.4556	7.968
470	102	102	2.5148	0	0.0063	2.5211	7.5136	0	0.5104	8.024
471	103	102	2.5076	0	0.0049	2.5126	7.5212	0	0.4784	7.9996
472	104	102	2.4994	0	0.0073	2.5067	7.511	0	0.4323	7.9433

473	99.1	102	2.4902	0	0.0099	2.5001	7.5222	0	0.4285	7.9508
474	103	102	2.4842	0	0.0111	2.4953	7.5371	0	0.4312	7.9683
475	105	103	2.478	0	0.0121	2.49	7.5165	0	0.4463	7.9628
476	104	102	2.4709	0	0.011	2.482	7.5317	0	0.5163	8.048
477	106	102	2.4633	0	0.0106	2.4739	7.5215	0	0.4827	8.0042
478	109	103	2.4561	0	0.0101	2.4662	7.4946	0	0.515	8.0096
479	108	103	2.4503	0	0.0063	2.4566	7.497	0	0.5354	8.0324
480	105	102	2.4422	0	0.0023	2.4445	7.4951	0	0.5509	8.046
481	102	102	2.4347	0	0.0015	2.4363	7.5067	0	0.5305	8.0372
482	102	102	2.4262	0	0.0042	2.4305	7.4899	0	0.5543	8.0442
483	102	102	2.4173	0	0.0065	2.4238	7.4821	0	0.5128	7.995
484	101	102	2.4091	0	0.0073	2.4164	7.4687	0	0.5213	7.9901
485	98.2	101	2.4026	0	0.0091	2.4117	7.4616	0	0.5137	7.9753
486	99.2	101	2.3944	0	0.0127	2.4071	7.4621	0	0.4756	7.9377
487	101	101	2.3877	0	0.0133	2.401	7.4447	0	0.4364	7.8811
488	97.7	101	2.379	0	0.0113	2.3903	7.4376	0	0.4595	7.897
489	98.5	101	2.3707	0	0.0089	2.3796	7.4286	0	0.4549	7.8836
490	99.2	101	2.3636	0	0.0052	2.3688	7.4186	0	0.4203	7.8389
491	98.4	101	2.3569	0	0.0012	2.3581	7.4149	0	0.4211	7.8359
492	99.1	101	2.3491	0	-0.0008	2.3484	7.4183	0	0.4249	7.8431
493	98.3	101	2.3415	0	-0.0029	2.3387	7.4042	0	0.4058	7.81
494	100	101	2.3332	0	-0.0008	2.3324	7.383	0	0.4722	7.8552
495	102	102	2.3247	0	-0.0024	2.3223	7.3525	0	0.4253	7.7778
496	103	102	2.317	0	-0.0037	2.3132	7.3359	0	0.4305	7.7663
497	103	103	2.3096	0	-0.0053	2.3043	7.3482	0	0.4584	7.8067
498	104	103	2.3013	0	-0.009	2.2923	7.3089	0	0.4516	7.7605
499	104	104	2.293	0	-0.0086	2.2844	7.2898	0	0.4401	7.7299
500	103	104	2.2844	0	-0.0083	2.276	7.2843	0	0.4746	7.7589
501	103	104	2.2762	0	-0.0075	2.2688	7.2469	0	0.4461	7.693
502	107	105	2.2694	0	-0.0049	2.2645	7.2186	0	0.424	7.6426
503	106	105	2.2622	0	0.0056	2.2678	7.1875	0	0.4091	7.5966
504	108	106	2.2551	0	0.0111	2.2663	7.1447	0	0.4263	7.571
505	108	106	2.2476	0	0.0097	2.2572	7.1653	0	0.4774	7.6427
506	107	106	2.2388	0	0.006	2.2449	7.1865	0	0.335	7.5215
507	107	106	2.2301	0	0.0034	2.2335	7.1471	0	0.4035	7.5507
508	108	106	2.2226	0	0.0021	2.2247	7.13	0	0.4087	7.5387
509	106	106	2.2157	0	0.002	2.2177	7.1016	0	0.4248	7.5264

510	103	107	2.2086	0	0.0026	2.2113	7.0634	0	0.4159	7.4794
511	108	107	2.2001	0	0.0012	2.2013	7.0487	0	0.3769	7.4257
512	110	107	2.1932	0	0.0009	2.1941	7.0162	0	0.3934	7.4097
513	111	107	2.1854	0	0.001	2.1864	6.988	0	0.4109	7.3989
514	106	107	2.1772	0	0.0019	2.1792	6.9675	0	0.4004	7.3679
515	101	107	2.1703	0	0.0011	2.1715	6.944	0	0.316	7.26
516	105	107	2.1643	0	-0.0035	2.1608	6.9173	0	0.2729	7.1902
517	106	107	2.1554	0	-0.0043	2.1511	6.8883	0	0.2947	7.1829
518	110	106	2.1495	0	-0.0043	2.1452	6.8512	0	0.2912	7.1424
519	111	106	2.1414	0	-0.0078	2.1336	6.8274	0	0.3246	7.152
520	110	107	2.1346	0	-0.0053	2.1293	6.8202	0	0.3711	7.1913
521	109	106	2.1281	0	-0.0033	2.1248	6.8039	0	0.3938	7.1978
522	108	106	2.1208	0	-0.0036	2.1172	6.78	0	0.425	7.2049
523	107	106	2.1127	0	-0.0026	2.1101	6.7601	0	0.4717	7.2318
524	106	106	2.1074	0	-0.0031	2.1044	6.7437	0	0.5005	7.2442
525	103	106	2.0986	0	-0.0112	2.0875	6.7476	0	0.5222	7.2699
526	102	106	2.0921	0	-0.0102	2.0819	6.7224	0	0.5644	7.2868
527	103	106	2.0857	0	-0.0146	2.0711	6.7046	0	0.5685	7.2731
528	106	105	2.0795	0	-0.0193	2.0601	6.6835	0	0.476	7.1595
529	107	104	2.0725	0	-0.0198	2.0527	6.6666	0	0.4774	7.1439
530	104	104	2.0646	0	-0.0183	2.0463	6.6653	0	0.4874	7.1527
531	108	103	2.0589	0	-0.021	2.0379	6.6415	0	0.4841	7.1257
532	100	103	2.0522	0	-0.0166	2.0356	6.6239	0	0.4875	7.1114
533	105	102	2.0463	0	-0.0177	2.0286	6.5952	0	0.5248	7.12
534	106	102	2.0392	0	-0.0178	2.0214	6.5548	0	0.5741	7.1289
535	102	102	2.0327	0	-0.016	2.0167	6.5182	0	0.5971	7.1153
536	99.4	102	2.0264	0	-0.0153	2.0111	6.5166	0	0.6682	7.1848
537	100	102	2.0196	0	-0.0175	2.0022	6.4926	0	0.7449	7.2375
538	98.7	101	2.0142	0	-0.0177	1.9965	6.4844	0	0.7804	7.2648
539	98.9	101	2.0077	0	-0.017	1.9907	6.4506	0	0.7779	7.2285
540	97	100	2.0008	0	-0.0196	1.9812	6.4134	0	0.7692	7.1826
541	99	99.5	1.9945	0	-0.0206	1.9739	6.3937	0	0.7232	7.1169
542	100	99.3	1.9887	0	-0.0198	1.9688	6.3736	0	0.4839	6.8575
543	101	99	1.9831	0	-0.0208	1.9624	6.3541	0	0.4342	6.7883
544	103	98.7	1.9779	0	-0.0247	1.9532	6.3302	0	0.4465	6.7767
545	99.3	98.4	1.9727	0	-0.0267	1.946	6.292	0	0.5284	6.8204
546	96.8	98	1.9644	0	-0.0295	1.9348	6.253	0	0.571	6.824

547	94	97.4	1.9601	0	-0.0305	1.9296	6.2213	0	0.5963	6.8175
548	97.5	97.3	1.9533	0	-0.0318	1.9215	6.19	0	0.597	6.787
549	97.2	97.2	1.9469	0	-0.0312	1.9157	6.1523	0	0.5551	6.7074
550	95.7	97	1.9425	0	-0.029	1.9135	6.1133	0	0.5673	6.6807
551	96.6	96.8	1.939	0	-0.0266	1.9124	6.0703	0	0.6041	6.6744
552	98.7	96.4	1.9347	0	-0.0251	1.9095	6.0434	0	0.6509	6.6943
553	99.9	95.9	1.9303	0	-0.026	1.9043	6.0242	0	0.7259	6.7501
554	96.8	95.2	1.92	0	-0.0307	1.8893	5.99	0	0.8215	6.8115
555	91.7	94.9	1.9108	0	-0.0156	1.8952	5.9605	0	0.8384	6.7989
556	90	94.7	1.9065	0	-0.0149	1.8916	5.9375	0	0.8158	6.7532
557	95.8	94.4	1.9019	0	-0.0183	1.8837	5.8987	0	0.7225	6.6211
558	97.8	93.8	1.8968	0	-0.0195	1.8773	5.8655	0	0.735	6.6005
559	93.3	93.5	1.8918	0	-0.0184	1.8734	5.9177	0	0.3003	6.218
560	94	93	1.8859	0	-0.0164	1.8696	5.9341	0	0.0864	6.0206
561	93.3	92.7	1.8815	0	-0.0202	1.8613	5.9006	0	0.1271	6.0277
562	91.6	92.2	1.8764	0	-0.0243	1.852	5.8517	0	0.163	6.0147
563	89.1	91.4	1.8719	0	-0.0271	1.8448	5.8335	0	0.2166	6.0501
564	92.4	90.9	1.8668	0	-0.0212	1.8457	5.7843	0	0.2559	6.0402
565	93.1	90.8	1.8614	0	-0.0187	1.8426	5.7434	0	0.318	6.0614
566	89	90.9	1.8559	0	-0.0225	1.8334	5.7175	0	0.3611	6.0785
567	87	90.3	1.8504	0	-0.0225	1.8279	5.6896	0	0.3446	6.0342
568	89.8	89.6	1.8456	0	-0.0242	1.8215	5.6383	0	0.3699	6.0082
569	86.9	89.2	1.8398	0	-0.0286	1.8112	5.6258	0	0.4037	6.0295
570	90.5	88.8	1.8344	0	-0.0331	1.8013	5.5869	0	0.362	5.9489
571	88.9	88.4	1.8297	0	-0.0376	1.7921	5.5681	0	0.3689	5.937
572	86.3	88	1.8234	0	-0.0398	1.7836	5.5298	0	0.4232	5.953
573	87.1	87.7	1.8159	0	-0.0402	1.7757	5.4924	0	0.4536	5.9459
574	90	87.2	1.8094	0	-0.0411	1.7683	5.4544	0	0.493	5.9474
575	90.3	86.8	1.8057	0	-0.0444	1.7613	5.4466	0	0.512	5.9586
576	85.8	86.5	1.8005	0	-0.0458	1.7547	5.4034	0	0.4535	5.8569
577	84.3	86.1	1.7949	0	-0.037	1.7579	5.381	0	0.4931	5.8741
578	85.9	85.6	1.7894	0	-0.0376	1.7518	5.352	0	0.4841	5.8361
579	85.9	85.4	1.7838	0	-0.0425	1.7413	5.3345	0	0.4527	5.7872
580	85.1	85	1.778	0	-0.0461	1.7319	5.3059	0	0.4901	5.796
581	84.7	84.4	1.7724	0	-0.0472	1.7251	5.2627	0	0.5561	5.8188
582	83.5	84.2	1.7667	0	-0.0482	1.7185	5.2436	0	0.5566	5.8002
583	81.9	83.7	1.7618	0	-0.0509	1.7109	5.2151	0	0.6151	5.8303

584	85.6	83	1.7573	0	-0.0524	1.7049	5.1883	0	0.6192	5.8076
585	83.8	82.2	1.7509	0	-0.0577	1.6932	5.1447	0	0.6241	5.7688
586	79.6	81.7	1.7451	0	-0.0618	1.6833	5.1181	0	0.6694	5.7876
587	80.9	81.2	1.7393	0	-0.0647	1.6745	5.0999	0	0.7182	5.8182
588	83.4	80.6	1.734	0	-0.0665	1.6675	5.0677	0	0.72	5.7877
589	81.5	80	1.7293	0	-0.068	1.6613	5.0488	0	0.7389	5.7877
590	78.2	79.4	1.7242	0	-0.0671	1.6571	5.0217	0	0.7357	5.7573
591	82.1	78.8	1.7195	0	-0.0472	1.6724	4.9849	0	0.7009	5.6858
592	78.4	78.2	1.7137	0	-0.0442	1.6696	4.9511	0	0.7115	5.6625
593	76.5	77.8	1.7085	0	-0.0475	1.661	4.929	0	0.7461	5.6751
594	74.8	77.2	1.704	0	-0.0537	1.6504	4.9115	0	0.7576	5.669
595	75.1	76.5	1.6994	0	-0.0595	1.6399	4.8853	0	0.7472	5.6325
596	75.9	76	1.6948	0	-0.0634	1.6315	4.8691	0	0.7522	5.6213
597	75.2	75.6	1.6906	0	-0.065	1.6256	4.8262	0	0.7489	5.5751
598	73.8	74.9	1.6861	0	-0.0645	1.6216	4.8207	0	0.7646	5.5852
599	73.1	74.4	1.6817	0	-0.0653	1.6163	4.786	0	0.7687	5.5547
600	74.2	74.1	1.6774	0	-0.0688	1.6086	4.7575	0	0.7725	5.5301
601	71.9	73.5	1.6719	0	-0.0725	1.5994	4.7517	0	0.7857	5.5374
602	73.3	73.1	1.667	0	-0.0775	1.5895	4.7488	0	0.8336	5.5823
603	74.2	72.8	1.6632	0	-0.0765	1.5866	4.7222	0	0.8587	5.5809
604	72.1	72.7	1.6591	0	-0.0727	1.5864	4.708	0	0.8683	5.5763
605	69.9	72.3	1.6538	0	-0.0719	1.5819	4.6314	0	0.8503	5.4817
606	73.4	71.9	1.649	0	-0.0662	1.5828	4.5613	0	1.0198	5.5812
607	69.9	71.6	1.6436	0	-0.0701	1.5735	4.5411	0	1.0467	5.5878
608	71.3	71.4	1.6308	0	-0.0279	1.6029	4.5216	0	1.0709	5.5925
609	72.5	71	1.6223	0	-0.0066	1.6156	4.5151	0	1.0777	5.5928
610	71.5	70.7	1.6186	0	-0.0101	1.6085	4.4717	0	1.1029	5.5746
611	69.9	70.4	1.615	0	-0.0151	1.5999	4.4411	0	1.0613	5.5024
612	71.3	70	1.6099	0	-0.0208	1.5891	4.4252	0	0.9199	5.3451
613	72.3	69.5	1.607	0	-0.0246	1.5824	4.4038	0	0.7937	5.1975
614	67.7	69	1.6029	0	-0.0299	1.573	4.3435	0	0.7462	5.0897
615	69.2	68.8	1.5986	0	-0.035	1.5636	4.1983	0	0.8423	5.0406
616	69.7	68.4	1.5953	0	-0.038	1.5574	4.1119	0	0.8545	4.9664
617	68.4	68.2	1.5915	0	-0.0413	1.5503	4.0671	0	0.8098	4.8769
618	67	68	1.5869	0	-0.0447	1.5422	4.0204	0	0.7634	4.7838
619	66.8	67.6	1.5827	0	-0.044	1.5387	4.1171	0	0.6704	4.7875
620	66.9	67.2	1.5778	0	-0.0422	1.5356	4.1727	0	0.6255	4.7982

621	65.9	66.8	1.5751	0	-0.0457	1.5295	4.0937	0	0.5988	4.6924
622	65.1	66.4	1.5715	0	-0.0489	1.5226	3.9613	0	0.5039	4.4652
623	63.2	65.9	1.5672	0	-0.0519	1.5154	3.9446	0	0.4267	4.3713
624	64.5	65.7	1.5628	0	-0.0543	1.5085	3.8658	0	0.425	4.2907
625	67.2	65.3	1.5583	0	-0.0565	1.5018	3.8134	0	0.3933	4.2067
626	65.7	65.1	1.554	0	-0.0595	1.4945	3.8777	0	0.2945	4.1722
627	67.2	64.7	1.5505	0	-0.063	1.4875	3.8926	0	0.2681	4.1607
628	64.8	64.5	1.546	0	-0.0646	1.4814	3.8532	0	0.3598	4.213
629	63.8	64.3	1.5419	0	-0.0688	1.4731	3.7961	0	0.323	4.1191
630	62.9	63.8	1.5383	0	-0.0739	1.4644	3.7446	0	0.2218	3.9664
631	62.5	63.3	1.5345	0	-0.0766	1.4579	3.6952	0	0.1454	3.8406
632	63.2	62.9	1.5307	0	-0.0781	1.4526	3.6462	0	0.1023	3.7485
633	63.7	62.6	1.5274	0	-0.0797	1.4478	3.6058	0	0.0726	3.6784
634	62.4	62.2	1.5248	0	-0.0802	1.4445	3.6076	0	0.03	3.6375
635	65.5	61.7	1.5209	0	-0.0829	1.4379	3.5995	0	-0.0752	3.5243
636	61.1	61.3	1.5164	0	-0.0871	1.4293	3.5702	0	-0.2998	3.2704
637	63.6	60.8	1.5129	0	-0.0895	1.4234	3.5473	0	-0.4813	3.066
638	62.4	60.4	1.5093	0	-0.0916	1.4177	3.514	0	-0.5606	2.9534
639	58.3	59.9	1.5055	0	-0.0906	1.415	3.5076	0	-0.7797	2.7279
640	56	59.4	1.5023	0	-0.0897	1.4126	3.4647	0	-0.9805	2.4842
641	57.2	59	1.4994	0	-0.0917	1.4077	3.4452	0	-1.0915	2.3538
642	57.9	58.6	1.4958	0	-0.0944	1.4013	3.418	0	-1.0154	2.4026
643	56.8	58.2	1.492	0	-0.0965	1.3955	3.3844	0	-1.0906	2.2938
644	57.7	57.8	1.4894	0	-0.0994	1.39	3.3685	0	-1.2114	2.1571
645	57.9	57.2	1.4858	0	-0.1019	1.3838	3.3634	0	-1.3439	2.0195
646	58	56.9	1.4817	0	-0.1044	1.3773	3.365	0	-1.417	1.948
647	56.6	56.4	1.4781	0	-0.107	1.3711	3.3724	0	-1.6054	1.767
648	54.4	56.1	1.4747	0	-0.1087	1.366	3.3464	0	-1.6698	1.6766
649	53.5	55.9	1.4711	0	-0.1084	1.3627	3.3022	0	-1.6915	1.6107
650	54.9	55.7	1.4673	0	-0.1076	1.3597	3.2715	0	-1.7519	1.5196
651	54.7	55.4	1.4642	0	-0.11	1.3542	3.2529	0	-1.8876	1.3653
652	56.2	55	1.4624	0	-0.111	1.3514	3.2074	0	-2.0423	1.1651
653	55.1	54.8	1.4595	0	-0.1128	1.3466	3.1375	0	-2.1368	1.0007
654	54.9	54.5	1.4569	0	-0.1157	1.3412	3.1304	0	-2.203	0.9274
655	54.7	54.1	1.4547	0	-0.1176	1.3371	3.0895	0	-2.1879	0.9016
656	54.3	53.9	1.4524	0	-0.1196	1.3328	3.0308	0	-2.2053	0.8255
657	55.9	53.5	1.4498	0	-0.1254	1.3244	3.0304	0	-2.2005	0.83

658	55.3	53.2	1.4453	0	-0.1273	1.318	3.0408	0	-2.3077	0.7331
659	51.2	52.9	1.4446	0	-0.1286	1.316	2.9386	0	-1.9586	0.98
660	51.5	52.6	1.4418	0	-0.1225	1.3193	2.8329	0	-1.8001	1.0328
661	51.4	52.2	1.439	0	-0.1122	1.3268	2.7945	0	-1.7914	1.003
662	52.2	51.7	1.436	0	-0.1037	1.3323	2.796	0	-1.9057	0.8903
663	52.9	51.5	1.4376	0	-0.1017	1.3358	2.7458	0	-1.9869	0.7589
664	51	51.3	1.447	0	-0.1054	1.3416	2.7522	0	-2.0421	0.7101
665	52.8	51.1	1.4502	0	-0.1042	1.346	2.7284	0	-2.1197	0.6087
666	50.5	51	1.4492	0	-0.1035	1.3457	2.7038	0	-2.177	0.5268
667	48.3	50.7	1.4484	0	-0.0989	1.3495	2.7061	0	-2.1949	0.5112
668	47.4	50.5	1.4339	0	-0.0912	1.3427	2.6735	0	-2.2425	0.431
669	48.4	50.5	1.4225	0	-0.0911	1.3314	2.6461	0	-2.2697	0.3764
670	48.4	50.3	1.425	0	-0.093	1.3321	2.6173	0	-2.3071	0.3103
671	46.8	50.4	1.4335	0	-0.088	1.3456	2.6053	0	-2.3106	0.2948
672	49.7	50.3	1.4289	0	-0.0825	1.3464	2.6137	0	-2.3443	0.2694
673	52.4	50	1.4293	0	-0.0827	1.3466	2.6098	0	-2.3959	0.2139
674	50.7	49.8	1.4281	0	-0.0805	1.3476	2.5966	0	-2.4399	0.1567
675	51.8	49.5	1.4179	0	-0.0738	1.3441	2.5785	0	-2.4526	0.1259
676	51.6	49.5	1.4112	0	-0.0726	1.3386	2.5628	0	-2.4762	0.0866
677	51.2	49.6	1.4096	0	-0.073	1.3366	2.5459	0	-2.4925	0.0534
678	50.2	49.7	1.4098	0	-0.0699	1.3399	2.5237	0	-2.534	-0.0103
679	49	49.7	1.4093	0	-0.0647	1.3446	2.4949	0	-2.5505	-0.0556
680	52.7	49.6	1.4085	0	-0.0607	1.3479	2.4673	0	-2.5968	-0.1295
681	50.2	49.6	1.4077	0	-0.0575	1.3503	2.4504	0	-2.6586	-0.2082
682	46.9	49.5	1.4061	0	-0.0555	1.3506	2.443	0	-2.6965	-0.2535
683	47.1	49.2	1.4011	0	-0.0539	1.3472	2.4368	0	-2.7066	-0.2699
684	48	48.9	1.3974	0	-0.0449	1.3525	2.4103	0	-2.6786	-0.2683
685	49.1	48.5	1.3939	0	-0.0277	1.3662	2.3257	0	-2.6395	-0.3138
686	49.9	48.1	1.3904	0	-0.0137	1.3767	2.3597	0	-2.6806	-0.3209
687	49.3	47.6	1.3878	0	-0.0087	1.3792	2.3514	0	-2.7215	-0.3701
688	49.1	47.1	1.3832	0	0.0115	1.3947	2.3207	0	-2.7248	-0.4042
689	46.3	46.8	1.3829	0	0.03	1.4129	2.2897	0	-2.7135	-0.4238
690	48.1	46.2	1.3797	0	0.042	1.4217	2.2528	0	-2.6627	-0.4099
691	48	45.7	1.3777	0	0.0544	1.4321	2.2581	0	-2.6484	-0.3903
692	46.5	45.4	1.3753	0	0.0649	1.4402	2.2832	0	-2.6473	-0.3641
693	45	44.8	1.3717	0	0.0736	1.4453	2.2581	0	-2.6383	-0.3802
694	43.8	44.4	1.3677	0	0.0807	1.4484	2.2341	0	-2.6425	-0.4084

695	43.5	43.7	1.3629	0	0.0822	1.4451	2.2017	0	-2.6269	-0.4252
696	41.2	42.9	1.3576	0	0.0972	1.4548	2.1709	0	-2.6049	-0.4341
697	41.8	42	1.356	0	0.102	1.458	2.1927	0	-2.6338	-0.4411
698	43.1	41.1	1.3559	0	0.1046	1.4605	2.242	0	-2.6857	-0.4437
699	41.9	40.3	1.3545	0	0.1099	1.4644	2.2889	0	-2.6998	-0.4108
700	40.3	39.5	1.3521	0	0.12	1.4721	2.257	0	-2.6824	-0.4254
701	40	38.5	1.3512	0	0.1317	1.4828	2.1929	0	-2.6482	-0.4553
702	36.5	37.6	1.3533	0	0.1362	1.4895	2.2011	0	-2.6325	-0.4314
703	40.2	36.8	1.3501	0	0.1438	1.4939	2.2205	0	-2.5996	-0.379
704	36.9	36	1.3501	0	0.1461	1.4962	2.2222	0	-2.5683	-0.3461
705	34.1	35.2	1.3507	0	0.1486	1.4994	2.2666	0	-2.5403	-0.2737
706	32.5	34.5	1.3459	0	0.1538	1.4998	2.3093	0	-2.5119	-0.2026
707	31.8	33.8	1.3395	0	0.1607	1.5002	2.3955	0	-2.4382	-0.0426
708	31.6	33.1	1.337	0	0.1679	1.5049	2.3702	0	-2.4488	-0.0786
709	31.3	32.6	1.339	0	0.1734	1.5124	2.3446	0	-2.3853	-0.0407
710	30.1	32.1	1.3391	0	0.1691	1.5082	2.2715	0	-2.3334	-0.0619
711	29.6	31.5	1.3354	0	0.1755	1.5108	2.2191	0	-2.2109	0.0081
712	29.6	31.3	1.3353	0	0.1779	1.5132	2.2539	0	-2.0601	0.1938
713	28.1	31	1.3318	0	0.1796	1.5114	2.2833	0	-1.9542	0.3291
714	27.6	30.7	1.3301	0	0.1821	1.5122	2.3171	0	-1.8809	0.4361
715	28.3	30.6	1.3282	0	0.1827	1.5109	2.4043	0	-1.9113	0.493
716	28.9	30.5	1.3247	0	0.1815	1.5063	2.4295	0	-1.9513	0.4782
717	29.4	30.5	1.3242	0	0.183	1.5072	2.4657	0	-1.9769	0.4889
718	32.5	30.5	1.3223	0	0.1823	1.5046	2.4866	0	-1.9171	0.5695
719	30.2	30.6	1.321	0	0.1867	1.5077	2.3252	0	-1.8111	0.5141
720	29.7	30.6	1.3172	0	0.1889	1.5061	2.1824	0	-1.8055	0.3769
721	32.6	30.6	1.3138	0	0.1888	1.5025	2.2157	0	-1.8448	0.371
722	33.4	30.5	1.3105	0	0.1907	1.5012	2.3452	0	-1.8191	0.526
723	32	30.5	1.3076	0	0.1921	1.4997	2.2955	0	-1.7901	0.5054
724	31.5	30.4	1.3049	0	0.191	1.4959	2.2867	0	-1.842	0.4447
725	32.1	30.4	1.302	0	0.1911	1.4931	2.2912	0	-1.8536	0.4377
726	31.3	30.3	1.2994	0	0.1898	1.4892	2.2106	0	-1.8012	0.4094
727	32	30.2	1.2981	0	0.1904	1.4885	2.1513	0	-1.7957	0.3556
728	31.8	30	1.2965	0	0.1904	1.487	2.151	0	-1.8166	0.3344
729	30.7	29.8	1.2952	0	0.1909	1.486	2.1987	0	-1.7976	0.4011
730	29	29.6	1.2933	0	0.1919	1.4852	2.1962	0	-1.7865	0.4098
731	27.7	29.3	1.2902	0	0.193	1.4833	2.1774	0	-1.7749	0.4025

732	28.1	28.9	1.287	0	0.1925	1.4795	2.1524	0	-1.7572	0.3952
733	27.2	28.5	1.2864	0	0.1882	1.4746	2.1226	0	-1.7491	0.3735
734	28.2	28.1	1.2922	0	0.1837	1.4759	2.1231	0	-1.7157	0.4074
735	27.2	27.7	1.2849	0	0.1851	1.47	2.0473	0	-1.6627	0.3846
736	27.1	27.4	1.2812	0	0.1851	1.4663	2.0368	0	-1.5249	0.5119
737	27.6	27	1.2808	0	0.183	1.4638	2.0356	0	-1.4051	0.6305
738	27.4	26.6	1.2803	0	0.1798	1.4601	2.0331	0	-1.371	0.6621
739	26.2	26.3	1.2803	0	0.1757	1.456	2.0114	0	-1.1939	0.8174
740	25.8	26.1	1.2765	0	0.1752	1.4517	2.0398	0	-0.9694	1.0703
741	26	26	1.2711	0	0.173	1.4441	2.0393	0	-0.8436	1.1957
742	24.4	25.8	1.27	0	0.1694	1.4393	2.0175	0	-0.7294	1.2881
743	24.7	25.6	1.2686	0	0.1677	1.4363	1.9825	0	-0.6167	1.3658
744	24.6	25.5	1.2692	0	0.1633	1.4325	1.9623	0	-0.4939	1.4684
745	24.2	25.3	1.2687	0	0.1586	1.4273	1.9738	0	-0.4101	1.5638
746	24.7	25.2	1.2625	0	0.159	1.4214	1.9361	0	-0.3748	1.5613
747	24.9	25	1.2539	0	0.1616	1.4155	1.9291	0	-0.2048	1.7242
748	24.9	25	1.2458	0	0.1613	1.4071	1.9541	0	-0.125	1.8291
749	25.1	25	1.2454	0	0.1598	1.4052	1.9867	0	-0.0678	1.919
750	25	25	1.248	0	0.1572	1.4053	1.9998	0	-0.0164	1.9835
751	24.3	24.9	1.244	0	0.1533	1.3973	1.9598	0	0.0245	1.9843
752	24.5	25	1.2404	0	0.149	1.3893	1.9882	0	0.1837	2.172
753	24.9	25	1.2372	0	0.144	1.3813	2.0045	0	0.219	2.2235
754	24.3	24.9	1.2302	0	0.1383	1.3685	1.9595	0	0.2745	2.234
755	24.9	24.9	1.2237	0	0.1336	1.3573	1.9583	0	0.3512	2.3095
756	25	24.8	1.2128	0	0.1242	1.3371	1.9652	0	0.4301	2.3953
757	26.6	24.7	1.2128	0	0.1195	1.3323	1.9224	0	0.5314	2.4537
758	25.7	24.6	1.2108	0	0.1113	1.322	1.84	0	0.6736	2.5135
759	25.6	24.5	1.2175	0	0.1047	1.3222	1.7777	0	0.7375	2.5152
760	25.4	24.4	1.2199	0	0.0986	1.3185	1.8742	0	0.8158	2.69
761	24.8	24.3	1.2136	0	0.0938	1.3074	1.9152	0	0.7864	2.7016
762	24.5	24.3	1.2077	0	0.0917	1.2994	1.9185	0	0.8666	2.7851
763	23.3	24.3	1.2059	0	0.0864	1.2922	1.9437	0	0.9028	2.8465
764	23.8	24.4	1.2066	0	0.0857	1.2923	1.917	0	0.9288	2.8457
765	23.6	24.4	1.2072	0	0.0909	1.2982	1.9574	0	0.9798	2.9372
766	23	24.5	1.2027	0	0.0942	1.2968	1.9135	0	0.9733	2.8868
767	22.6	24.5	1.1997	0	0.0928	1.2926	1.9466	0	1.0159	2.9626
768	22.9	24.5	1.2014	0	0.0899	1.2913	1.9503	0	1.0844	3.0347

769	23.4	24.4	1.2043	0	0.0894	1.2937	1.9533	0	1.0765	3.0298
770	23.3	24.5	1.2035	0	0.0915	1.295	1.928	0	1.0781	3.0061
771	24.1	24.6	1.199	0	0.0939	1.2929	1.8873	0	1.1126	2.9999
772	24.8	24.7	1.1994	0	0.0965	1.2959	1.8686	0	1.1497	3.0184
773	25.7	24.9	1.2006	0	0.1015	1.3021	1.8457	0	1.1752	3.0209
774	26.1	25.2	1.199	0	0.1049	1.3039	1.8258	0	1.1775	3.0033
775	26.3	25.3	1.1969	0	0.1063	1.3032	1.8292	0	1.1492	2.9784
776	26.2	25.6	1.1961	0	0.1069	1.303	1.7951	0	1.1818	2.9768
777	25.4	25.8	1.1945	0	0.1087	1.3032	1.807	0	1.1978	3.0049
778	25.1	26	1.19	0	0.1098	1.2998	1.7956	0	1.2006	2.9962
779	26.7	26.1	1.1897	0	0.114	1.3037	1.7807	0	1.2236	3.0043
780	27.1	26.2	1.1908	0	0.1168	1.3076	1.7432	0	1.2325	2.9757
781	26.5	26.3	1.1925	0	0.1183	1.3108	1.7821	0	1.2345	3.0166
782	26.9	26.4	1.1939	0	0.1194	1.3133	1.8162	0	1.2123	3.0285
783	28.3	26.4	1.1888	0	0.1177	1.3064	1.822	0	1.1797	3.0017
784	27	26.3	1.1926	0	0.1214	1.314	1.8563	0	1.1585	3.0149
785	27.2	26.2	1.1902	0	0.1248	1.315	1.9157	0	1.1663	3.082
786	27.2	26.2	1.1868	0	0.1268	1.3137	1.866	0	1.2331	3.0991
787	26.5	26.2	1.1845	0	0.1284	1.313	1.8371	0	1.2354	3.0725
788	26.1	26.2	1.1821	0	0.1309	1.3129	1.6236	0	0.9688	2.5923
789	24.7	26.2	1.1789	0	0.127	1.3059	1.7044	0	0.9179	2.6224
790	25.6	26.1	1.1758	0	0.1264	1.3022	1.7753	0	0.8397	2.615
791	26.1	26	1.176	0	0.1273	1.3033	1.745	0	0.7856	2.5306
792	25.6	25.9	1.177	0	0.1266	1.3036	1.7435	0	0.7456	2.4891
793	24.7	25.8	1.1754	0	0.123	1.2985	1.7989	0	0.6779	2.4768
794	24.7	25.9	1.1703	0	0.1217	1.292	1.8288	0	0.5635	2.3923
795	25.7	25.8	1.1693	0	0.1197	1.2889	1.8834	0	0.4233	2.3067
796	25.7	25.7	1.1647	0	0.1177	1.2823	1.9307	0	0.3691	2.2998
797	25.7	25.7	1.1606	0	0.1145	1.2751	1.8826	0	0.3583	2.2409
798	25.6	25.7	1.1572	0	0.1114	1.2686	1.8435	0	0.3315	2.175
799	25.2	25.7	1.1545	0	0.1115	1.266	1.7837	0	0.3378	2.1215
800	24.9	25.8	1.1561	0	0.1176	1.2736	1.8376	0	0.3847	2.2223
801	25.4	25.8	1.1523	0	0.1133	1.2656	1.8743	0	0.4199	2.2942
802	26.7	25.8	1.1528	0	0.1143	1.2671	1.83	0	0.3967	2.2267
803	28.1	25.9	1.1542	0	0.1163	1.2705	1.8001	0	0.3795	2.1796
804	26.6	26	1.1543	0	0.111	1.2653	1.7726	0	0.3572	2.1298
805	25.3	26	1.1542	0	0.1056	1.2598	1.6749	0	0.2829	1.9578

806	26	26	1.1537	0	0.1007	1.2544	1.567	0	0.1861	1.7531
807	25.8	26	1.1555	0	0.0933	1.2488	1.4459	0	0.0746	1.5205
808	25.1	26.1	1.1592	0	0.0942	1.2534	1.4468	0	0.0157	1.4625
809	26.8	26.2	1.1515	0	0.0918	1.2434	1.4794	0	-0.049	1.4304
810	26.5	26.3	1.1476	0	0.0904	1.2381	1.569	0	-0.0907	1.4782
811	25.7	26.3	1.1435	0	0.0888	1.2323	1.6037	0	-0.2514	1.3523
812	26.4	26.2	1.1409	0	0.0876	1.2286	1.5322	0	-0.3575	1.1747
813	27.1	26	1.1401	0	0.0868	1.2268	1.4689	0	-0.3646	1.1043
814	25.2	26	1.1343	0	0.0841	1.2184	1.477	0	-0.4203	1.0568
815	26	26	1.1369	0	0.0854	1.2223	1.4409	0	-0.2934	1.1475
816	25.8	25.9	1.1301	0	0.0799	1.21	1.3608	0	-0.1037	1.2571
817	26.6	25.8	1.1292	0	0.0745	1.2037	1.307	0	-0.1767	1.1303
818	26.8	25.9	1.1269	0	0.0747	1.2016	1.3005	0	-0.2704	1.0302
819	26.8	25.8	1.1282	0	0.0789	1.2071	1.3046	0	-0.329	0.9756
820	26.3	25.7	1.1285	0	0.0776	1.2061	1.3731	0	-0.3213	1.0518
821	25.3	25.8	1.1269	0	0.0738	1.2007	1.4006	0	-0.2992	1.1014
822	24.7	25.8	1.126	0	0.0731	1.1991	1.3792	0	-0.3979	0.9813
823	25.2	25.9	1.125	0	0.0744	1.1994	1.3411	0	-0.3629	0.9782
824	24.9	25.9	1.122	0	0.0761	1.1981	1.4664	0	-0.3707	1.0957
825	24.1	25.9	1.1225	0	0.0729	1.1954	1.5843	0	-0.373	1.2112
826	25.1	26	1.1187	0	0.07	1.1887	1.6272	0	-0.3402	1.2869
827	26.3	26.2	1.1186	0	0.0703	1.1889	1.6457	0	-0.3144	1.3312
828	25.5	26.4	1.1184	0	0.0681	1.1865	1.6324	0	-0.2637	1.3687
829	24.9	26.5	1.1208	0	0.0676	1.1885	1.5906	0	-0.2014	1.3892
830	26.5	26.6	1.1151	0	0.0685	1.1835	1.5879	0	-0.1218	1.4661
831	27.8	26.9	1.1086	0	0.0718	1.1804	1.6008	0	-0.0898	1.5109
832	27.3	27.1	1.1048	0	0.0746	1.1794	1.6126	0	-0.0475	1.5651
833	26.2	27.3	1.1008	0	0.0724	1.1731	1.6449	0	-0.0352	1.6097
834	26.2	27.6	1.1006	0	0.0671	1.1677	1.6	0	-0.0107	1.5894
835	27.7	27.8	1.0983	0	0.0618	1.1601	1.6334	0	0.0619	1.6953
836	30.3	28.1	1.0975	0	0.0615	1.159	1.6052	0	0.1064	1.7116
837	29.8	28.3	1.1184	0	0.0861	1.2046	1.58	0	0.1369	1.7169
838	29.1	28.4	1.1099	0	0.088	1.1979	1.5748	0	0.1781	1.753
839	28.5	28.5	1.1027	0	0.0917	1.1945	1.5673	0	0.2258	1.7931
840	30.1	28.6	1.102	0	0.0966	1.1986	1.5693	0	0.2108	1.7801
841	29.7	28.7	1.0967	0	0.0985	1.1952	1.5126	0	0.205	1.7176
842	29.3	28.8	1.0901	0	0.1016	1.1917	1.5211	0	0.2051	1.7262

843	29.2	28.9	1.0857	0	0.1114	1.1971	1.5668	0	0.2081	1.775
844	29.2	29	1.0809	0	0.121	1.2018	1.5798	0	0.1424	1.7222
845	30.3	29.2	1.0756	0	0.1217	1.1973	1.5391	0	0.1261	1.6652
846	29.1	29.3	1.0742	0	0.1231	1.1974	1.5344	0	0.0804	1.6149
847	27.9	29.4	1.0695	0	0.1284	1.198	1.4788	0	0.0227	1.5015
848	27.7	29.5	1.0675	0	0.1275	1.195	1.4183	0	-0.029	1.3893
849	28.4	29.6	1.0617	0	0.1213	1.183	1.3837	0	-0.0666	1.317
850	29	29.5	1.0606	0	0.1152	1.1758	1.3834	0	-0.0579	1.3255
851	28.9	29.5	1.0611	0	0.1136	1.1747	1.4797	0	-0.0276	1.4521
852	28.2	29.6	1.0604	0	0.111	1.1714	1.469	0	-0.057	1.412
853	29.2	29.6	1.06	0	0.1083	1.1683	1.5036	0	-0.0506	1.453
854	30.8	29.5	1.0627	0	0.11	1.1728	1.5366	0	-0.0578	1.4788
855	31.7	29.4	1.067	0	0.115	1.182	1.5358	0	-0.1372	1.3985
856	32.5	29.3	1.0682	0	0.1168	1.185	1.7893	0	-1.292	0.4973
857	29.9	29.3	1.0681	0	0.118	1.186	2.0356	0	-1.5133	0.5224
858	30.8	29.4	1.0629	0	0.1162	1.179	2.1594	0	-1.0861	1.0733
859	29.6	29.3	1.0606	0	0.1138	1.1743	2.2261	0	-1.0612	1.1649
860	29.8	29.2	1.0596	0	0.1237	1.1833	2.1399	0	-1.0775	1.0624
861	29.9	29.2	1.0604	0	0.1296	1.1899	2.1073	0	-1.1122	0.9951
862	28.9	29.2	1.0608	0	0.1282	1.189	2.1061	0	-1.136	0.9702
863	28	29.2	1.0582	0	0.1284	1.1865	2.0931	0	-1.1488	0.9442
864	27.7	29.1	1.0625	0	0.1151	1.1775	2.1032	0	-1.1512	0.952
865	27.6	29.1	1.0711	0	0.1013	1.1725	2.0605	0	-1.2162	0.8443
866	27.9	29	1.072	0	0.1119	1.1838	2.0771	0	-1.2734	0.8037
867	29.2	29	1.0697	0	0.1199	1.1896	2.0165	0	-1.4141	0.6023
868	27.5	29	1.0709	0	0.1228	1.1937	2.0259	0	-1.5368	0.489
869	27.1	29	1.067	0	0.1215	1.1885	2.0178	0	-1.5976	0.4202
870	28	29.1	1.0634	0	0.1214	1.1848	2.05	0	-1.6636	0.3864
871	28.7	29.2	1.0611	0	0.1337	1.1948	2.086	0	-1.8348	0.2512
872	28.6	29.3	1.0653	0	0.1328	1.1981	2.0938	0	-1.9802	0.1136
873	30.1	29.5	1.054	0	0.1386	1.1926	2.0952	0	-2.0353	0.0599
874	30.7	29.8	1.0405	0	0.1422	1.1827	2.0894	0	-1.9927	0.0967
875	30.3	30.1	1.0342	0	0.1403	1.1745	2.0827	0	-1.971	0.1117
876	30.2	30.3	1.0315	0	0.1384	1.1699	2.109	0	-2.0193	0.0897
877	30.4	30.6	1.0313	0	0.1351	1.1663	2.0991	0	-2.0344	0.0648
878	30.8	30.9	1.0309	0	0.13	1.1609	2.1184	0	-2.0392	0.0792
879	31.3	31.2	1.0309	0	0.1262	1.1571	2.1188	0	-2.0883	0.0305

880	31.5	31.5	1.0307	0	0.1258	1.1565	2.1451	0	-2.0727	0.0724
881	31.6	31.6	1.0312	0	0.123	1.1542	2.0954	0	-2.0518	0.0436
882	32	31.8	1.0294	0	0.1229	1.1523	2.0159	0	-2.0022	0.0137
883	33.2	31.9	1.0288	0	0.1187	1.1475	2.0015	0	-1.99	0.0115
884	32.1	31.9	1.0293	0	0.1152	1.1445	1.9793	0	-2.0449	-0.0656
885	32.6	31.9	1.0297	0	0.1141	1.1438	2.0006	0	-2.0795	-0.079
886	34.1	32	1.0288	0	0.1132	1.142	1.9603	0	-2.1237	-0.1634
887	33.7	32	1.0271	0	0.1106	1.1377	1.9629	0	-2.1631	-0.2002
888	33.3	32	1.0253	0	0.1083	1.1336	2.1803	0	-1.9326	0.2478
889	32.7	32	1.0219	0	0.1059	1.1278	2.0943	0	-1.9089	0.1854
890	32.2	32.1	1.0245	0	0.1059	1.1304	2.0277	0	-1.8824	0.1452
891	32.2	32	1.0239	0	0.1068	1.1307	2.0138	0	-1.8528	0.1609
892	30.9	32	1.0203	0	0.1057	1.1261	1.9681	0	-1.8733	0.0948
893	30.2	32	1.0175	0	0.1088	1.1262	1.9276	0	-1.8518	0.0758
894	30.9	32	1.0164	0	0.1091	1.1255	1.8839	0	-1.7097	0.1742
895	31.7	31.9	1.0158	0	0.1116	1.1275	1.839	0	-1.6029	0.2361
896	30.9	31.8	1.0168	0	0.1154	1.1322	1.7933	0	-1.5824	0.2108
897	30.6	31.7	1.0188	0	0.1174	1.1361	1.7674	0	-1.557	0.2104
898	32.3	31.6	1.0188	0	0.1181	1.1369	1.7222	0	-1.5264	0.1958
899	32.3	31.6	1.0162	0	0.1173	1.1335	1.7275	0	-1.5548	0.1727
900	29.9	31.6	1.0081	0	0.1203	1.1284	1.7004	0	-1.635	0.0654
901	31.8	31.5	1.0054	0	0.119	1.1244	1.7051	0	-1.7321	-0.027
902	32.9	31.6	1.0025	0	0.1194	1.1218	1.7115	0	-1.7482	-0.0367
903	32.4	31.7	1.0005	0	0.1221	1.1226	1.6997	0	-1.7652	-0.0656
904	31.1	31.8	1.0007	0	0.1247	1.1254	1.7265	0	-1.8023	-0.0758
905	31.7	31.9	0.9753	0	0.2348	1.2101	1.7529	0	-1.7656	-0.0127
906	31.9	32	0.9501	0	0.252	1.2022	1.7961	0	-1.6906	0.1055
907	32.2	32.1	0.9396	0	0.2019	1.1415	1.8144	0	-1.6786	0.1358
908	32.7	32.2	0.9366	0	0.2003	1.1369	1.827	0	-1.6662	0.1608
909	31.4	32.2	0.9376	0	0.1996	1.1371	1.78	0	-1.6838	0.0962
910	31.4	32.4	0.9369	0	0.2017	1.1385	1.754	0	-1.7258	0.0282
911	31.8	32.6	0.9329	0	0.2024	1.1353	1.7548	0	-1.6432	0.1115
912	31.6	32.6	0.9316	0	0.2025	1.1341	1.8078	0	-1.5588	0.249
913	33.2	32.7	0.9297	0	0.2019	1.1316	1.9441	0	-1.5183	0.4258
914	33.9	32.9	0.9283	0	0.2057	1.134	2.0015	0	-1.6332	0.3683
915	32.9	33.1	0.9291	0	0.2127	1.1419	2.0544	0	-1.7998	0.2546
916	33.2	33.2	0.9284	0	0.2214	1.1498	2.1547	0	-1.9791	0.1756

917	33.6	33.3	0.9266	0	0.2282	1.1548	2.1835	0	-1.883	0.3004
918	33.2	33.6	0.9252	0	0.2344	1.1596	2.1711	0	-1.7887	0.3824
919	33.5	33.8	0.9232	0	0.2453	1.1684	2.1826	0	-1.7496	0.4329
920	34.1	33.9	0.9199	0	0.2611	1.181	2.1454	0	-1.7494	0.396
921	34.1	34	0.9175	0	0.2718	1.1893	2.1158	0	-1.7299	0.3859
922	34.3	34.1	0.9165	0	0.2767	1.1931	2.1038	0	-1.6411	0.4627
923	35.2	34	0.9161	0	0.2736	1.1897	2.1833	0	-1.658	0.5253
924	34.7	34	0.9137	0	0.2732	1.1869	2.0813	0	-1.5497	0.5316
925	33.4	34.1	0.9116	0	0.2749	1.1865	1.9477	0	-1.5059	0.4418
926	35.3	34.2	0.9088	0	0.2734	1.1822	1.8857	0	-1.5118	0.374
927	37.3	34.2	0.9067	0	0.2742	1.1809	1.8709	0	-1.5534	0.3175
928	35.6	34.2	0.9066	0	0.2769	1.1835	1.8851	0	-1.599	0.2861
929	32.8	34.1	0.9063	0	0.2749	1.1812	1.8934	0	-1.6234	0.27
930	33.9	34	0.9055	0	0.2737	1.1792	1.8981	0	-1.6289	0.2692
931	33.3	34	0.907	0	0.272	1.179	1.8995	0	-1.6291	0.2704
932	32.6	34	0.9047	0	0.2736	1.1782	1.9087	0	-1.6772	0.2315
933	33.4	33.7	0.9028	0	0.2768	1.1797	1.9055	0	-1.6734	0.232
934	34	33.6	0.9006	0	0.275	1.1756	1.9274	0	-1.7119	0.2155
935	35.2	33.5	0.9023	0	0.2742	1.1765	1.933	0	-1.7523	0.1807
936	34.4	33.3	0.9012	0	0.2778	1.1791	1.9474	0	-1.7068	0.2406
937	32.6	33	0.9004	0	0.2794	1.1798	1.9547	0	-1.5572	0.3975
938	31.8	32.8	0.9004	0	0.2789	1.1793	1.977	0	-1.5154	0.4616
939	32.3	32.7	0.9	0	0.28	1.1799	1.9697	0	-1.4827	0.487
940	33.4	32.5	0.9006	0	0.2819	1.1825	1.9363	0	-1.4589	0.4774
941	34	32.4	0.8999	0	0.2858	1.1857	1.979	0	-1.461	0.518
942	31.1	32.3	0.8973	0	0.2868	1.1841	1.985	0	-1.4663	0.5187
943	31.6	32.2	0.8973	0	0.2823	1.1796	1.9645	0	-1.489	0.4755
944	31.5	32.1	0.897	0	0.2813	1.1782	1.9425	0	-1.4499	0.4925
945	32.5	31.9	0.8963	0	0.2799	1.1762	1.9474	0	-1.4432	0.5042
946	31.6	31.8	0.8975	0	0.2788	1.1763	1.9497	0	-1.4353	0.5144
947	30.8	31.7	0.8973	0	0.2811	1.1784	1.9564	0	-1.3658	0.5906
948	30.7	31.7	0.8947	0	0.283	1.1777	1.9785	0	-1.3238	0.6548
949	31.1	31.6	0.8916	0	0.2848	1.1765	1.9673	0	-1.3053	0.662
950	31.2	31.5	0.8901	0	0.2885	1.1785	1.9391	0	-1.2956	0.6435
951	30.3	31.3	0.8899	0	0.2884	1.1783	1.8753	0	-1.2505	0.6248
952	30.9	31.2	0.8904	0	0.2875	1.1779	1.863	0	-1.2623	0.6007
953	32.1	31.1	0.8873	0	0.2885	1.1759	1.8454	0	-1.2529	0.5926

954	32.2	31	0.8874	0	0.2866	1.174	1.836	0	-1.1994	0.6366
955	31.9	30.8	0.8874	0	0.284	1.1715	1.8383	0	-1.1674	0.6709
956	31.6	30.8	0.8868	0	0.2846	1.1714	1.5874	0	-0.0574	1.53
957	31.4	30.8	0.8854	0	0.2846	1.17	1.3455	0	0.1177	1.4633
958	30.8	30.7	0.8849	0	0.2845	1.1694	1.2453	0	-0.3829	0.8624
959	30.3	30.6	0.8852	0	0.2863	1.1715	1.2157	0	-0.4009	0.8147
960	30.2	30.5	0.8841	0	0.288	1.1721	1.2147	0	-0.4288	0.7859
961	29.7	30.5	0.8796	0	0.2854	1.165	1.202	0	-0.464	0.738
962	30.4	30.3	0.8664	0	0.28	1.1464	1.1654	0	-0.4997	0.6657
963	29.2	30	0.858	0	0.2917	1.1497	1.1435	0	-0.4533	0.6903
964	29.2	29.9	0.857	0	0.2951	1.1521	1.1376	0	-0.465	0.6726
965	30.3	29.7	0.8557	0	0.2992	1.1549	1.1468	0	-0.4034	0.7434
966	31.2	29.5	0.8536	0	0.3002	1.1538	1.1567	0	-0.3373	0.8194
967	30.1	29.4	0.8526	0	0.2987	1.1513	1.1462	0	-0.2025	0.9436
968	28.7	29.2	0.8527	0	0.2978	1.1504	1.1243	0	-0.1094	1.0149
969	29.7	29.1	0.8525	0	0.2965	1.1489	1.1075	0	-0.0384	1.0691
970	28.8	29	0.8518	0	0.2944	1.1462	1.0866	0	0.0967	1.1834
971	28.5	28.9	0.8507	0	0.2978	1.1485	1.0649	0	0.2771	1.3421
972	26.7	28.8	0.847	0	0.2986	1.1455	1.063	0	0.3722	1.4351
973	28.7	28.7	0.8459	0	0.2935	1.1394	1.0587	0	0.4099	1.4686
974	28.8	28.5	0.8458	0	0.2928	1.1386	1.082	0	0.3988	1.4808
975	28.3	28.3	0.8456	0	0.2915	1.1371	1.0629	0	0.383	1.4459
976	28.3	28.1	0.8444	0	0.2937	1.1382	1.0366	0	0.4058	1.4423
977	28.6	28	0.8428	0	0.295	1.1377	1.0059	0	0.3968	1.4027
978	28.1	27.9	0.8416	0	0.2923	1.1339	0.9852	0	0.4374	1.4227
979	27.1	27.8	0.8411	0	0.2891	1.1301	0.9929	0	0.4991	1.492
980	27.5	27.6	0.8408	0	0.2887	1.1295	1.0121	0	0.4801	1.4923
981	28.8	27.5	0.8404	0	0.2907	1.1311	1.0206	0	0.4513	1.4718
982	27.6	27.5	0.8388	0	0.2903	1.1291	1.0269	0	0.4399	1.4668
983	25.8	27.4	0.836	0	0.2899	1.1259	0.9962	0	0.4541	1.4503
984	26.7	27.3	0.836	0	0.2904	1.1264	0.9895	0	0.5124	1.5019
985	27.7	27.2	0.835	0	0.2848	1.1198	0.9686	0	0.4897	1.4583
986	27.3	27	0.8334	0	0.2689	1.1022	1.0005	0	0.4934	1.4939
987	27	26.8	0.8294	0	0.2621	1.0915	0.9677	0	0.4396	1.4073
988	26.8	26.6	0.8284	0	0.2566	1.0849	0.9442	0	0.4698	1.414
989	26.6	26.4	0.8283	0	0.2518	1.0801	0.9472	0	0.528	1.4752
990	26.1	26.3	0.8266	0	0.252	1.0786	0.9505	0	0.5679	1.5183

991	25.9	26	0.8254	0	0.2534	1.0788	0.9618	0	0.5833	1.5451
992	27.1	25.7	0.8239	0	0.2547	1.0785	0.959	0	0.6111	1.5701
993	26.4	25.5	0.8232	0	0.2538	1.077	0.9334	0	0.617	1.5504
994	27	25.3	0.8217	0	0.2534	1.0751	0.9375	0	0.5987	1.5362
995	25.5	25.1	0.8208	0	0.2552	1.076	0.9484	0	0.595	1.5434
996	24	24.8	0.8212	0	0.252	1.0731	0.9579	0	0.5379	1.4959
997	23.9	24.6	0.8209	0	0.2498	1.0707	0.9809	0	0.5008	1.4817
998	24.7	24.4	0.8221	0	0.2486	1.0707	0.9853	0	0.4706	1.4559
999	24.2	24.2	0.8223	0	0.2468	1.0691	0.9572	0	0.4869	1.4441
1000	22.9	24	0.8206	0	0.2454	1.0659	0.93	0	0.5211	1.4512
1001	22.3	23.8	0.8191	0	0.2452	1.0644	0.928	0	0.5463	1.4743
1002	22.3	23.5	0.8179	0	0.2446	1.0626	0.9337	0	0.5334	1.4672
1003	22.5	23.2	0.8169	0	0.2421	1.059	0.9349	0	0.5216	1.4566
1004	23.9	23	0.8169	0	0.2414	1.0583	0.9036	0	0.5107	1.4143
1005	21.9	22.8	0.8166	0	0.2405	1.0571	0.9688	0	0.6035	1.5723
1006	22.7	22.6	0.8156	0	0.2402	1.0558	0.9761	0	0.5377	1.5138
1007	23.3	22.5	0.815	0	0.2402	1.0552	1.0022	0	0.5274	1.5296
1008	22.9	22.3	0.815	0	0.2404	1.0554	1.0085	0	0.5342	1.5428
1009	22	22.2	0.8161	0	0.2425	1.0585	1.0101	0	0.5469	1.557
1010	22	22.1	0.8167	0	0.2481	1.0647	1.0172	0	0.5557	1.5729
1011	22.3	22	0.8164	0	0.2524	1.0687	1.0108	0	0.5439	1.5547
1012	21.2	21.9	0.8173	0	0.2478	1.0651	0.9719	0	0.513	1.4849
1013	21.5	21.8	0.816	0	0.2484	1.0644	0.8456	0	0.4616	1.3072
1014	21.7	21.6	0.8136	0	0.2461	1.0597	0.7907	0	0.5161	1.3068
1015	21.5	21.5	0.8135	0	0.2465	1.06	0.7833	0	0.552	1.3353
1016	21.7	21.4	0.8138	0	0.2416	1.0554	0.7938	0	0.5924	1.3862
1017	21.1	21.2	0.8142	0	0.2392	1.0533	0.7808	0	0.5963	1.3771
1018	21.6	21.1	0.8144	0	0.2382	1.0527	0.7895	0	0.5651	1.3546
1019	21.4	21	0.8145	0	0.2356	1.0501	0.8159	0	0.5297	1.3457
1020	20.5	20.9	0.8134	0	0.2334	1.0468	0.8157	0	0.498	1.3137
1021	20.7	20.8	0.8112	0	0.2346	1.0458	0.7986	0	0.4659	1.2645
1022	20.8	20.7	0.8106	0	0.2357	1.0463	0.8092	0	0.4727	1.2819
1023	20.3	20.6	0.8079	0	0.2338	1.0416	0.7807	0	0.4745	1.2552
1024	19.4	20.5	0.8074	0	0.2349	1.0423	0.7788	0	0.4115	1.1903
1025	20	20.5	0.808	0	0.2343	1.0422	0.7788	0	0.4028	1.1816
1026	20.8	20.4	0.8082	0	0.2338	1.0419	0.8076	0	0.3998	1.2074
1027	20.6	20.4	0.8082	0	0.2305	1.0387	0.7972	0	0.4245	1.2217

1028	19.8	20.3	0.8073	0	0.227	1.0343	0.7991	0	0.4372	1.2363
1029	20.1	20.2	0.8051	0	0.2269	1.032	0.8281	0	0.4038	1.2319
1030	20.6	20.3	0.8035	0	0.2285	1.032	0.8418	0	0.3731	1.2149
1031	19.3	20.3	0.8043	0	0.228	1.0324	0.8324	0	0.3915	1.2239
1032	19.3	20.3	0.805	0	0.2281	1.0332	0.8385	0	0.4333	1.2717
1033	19.7	20.4	0.8039	0	0.2256	1.0295	0.8356	0	0.4463	1.2819
1034	21.2	20.5	0.8037	0	0.2261	1.0298	0.8156	0	0.4543	1.2699
1035	20.6	20.5	0.8022	0	0.2249	1.0271	0.797	0	0.464	1.261
1036	20.1	20.5	0.8045	0	0.2339	1.0383	0.795	0	0.3826	1.1776
1037	20.2	20.5	0.806	0	0.2324	1.0384	0.7782	0	0.1519	0.9301
1038	20.5	20.5	0.8057	0	0.2261	1.0318	0.7592	0	0.0909	0.8501
1039	20.7	20.5	0.8049	0	0.2232	1.0281	0.7654	0	0.0679	0.8333
1040	21.3	20.5	0.8044	0	0.2236	1.028	0.7702	0	0.055	0.8252
1041	22	20.4	0.804	0	0.2247	1.0287	0.7627	0	0.0756	0.8383
1042	21.4	20.4	0.804	0	0.2251	1.029	0.7659	0	0.0851	0.8509
1043	20.6	20.4	0.8035	0	0.2225	1.026	0.7635	0	0.0947	0.8582
1044	21.5	20.3	0.8021	0	0.2218	1.0239	0.7753	0	0.0935	0.8687
1045	20.4	20.2	0.8005	0	0.2261	1.0266	0.7615	0	0.1318	0.8933
1046	19.6	20.2	0.7994	0	0.2288	1.0282	0.7659	0	0.1923	0.9582
1047	20.5	20.1	0.7988	0	0.234	1.0328	0.7855	0	0.1413	0.9268
1048	20.5	20	0.799	0	0.2343	1.0333	0.7938	0	0.1151	0.9088
1049	19.5	19.8	0.7986	0	0.2327	1.0313	0.8151	0	0.1112	0.9263
1050	18.8	19.7	0.7973	0	0.2338	1.0311	0.8141	0	0.1452	0.9593
1051	18.8	19.5	0.7965	0	0.2351	1.0316	0.7928	0	0.1595	0.9522
1052	19.5	19.3	0.7969	0	0.2354	1.0323	0.7788	0	0.1549	0.9338
1053	19.3	19.1	0.797	0	0.2375	1.0344	0.7713	0	0.1742	0.9455
1054	18.9	19	0.7906	0	0.2262	1.0168	0.7821	0	0.1607	0.9428
1055	19.1	18.9	0.7898	0	0.2303	1.0201	0.8066	0	0.181	0.9876
1056	18.6	18.9	0.7866	0	0.2319	1.0185	0.8201	0	0.1674	0.9876
1057	18.2	18.8	0.7845	0	0.2312	1.0157	0.8259	0	0.1905	1.0164
1058	18.3	18.7	0.7838	0	0.2298	1.0137	0.823	0	0.1932	1.0162
1059	18.4	18.7	0.7834	0	0.2308	1.0142	0.8175	0	0.2234	1.0409
1060	18.1	18.8	0.783	0	0.2337	1.0167	0.8305	0	0.2646	1.0952
1061	17.8	18.8	0.7824	0	0.2341	1.0166	0.808	0	0.3463	1.1544
1062	17.4	18.8	0.7818	0	0.2339	1.0156	0.7563	0	0.4334	1.1897
1063	19.3	18.8	0.7789	0	0.2401	1.019	0.7837	0	0.3976	1.1814
1064	19	18.8	0.7787	0	0.2399	1.0186	0.791	0	0.4397	1.2307

1065	18.9	18.9	0.7763	0	0.24	1.0163	0.7688	0	0.4344	1.2033
1066	19	18.9	0.7755	0	0.2405	1.0161	0.7785	0	0.4272	1.2057
1067	19.2	19	0.7736	0	0.2422	1.0159	0.8029	0	0.3612	1.1641
1068	19.3	19	0.7711	0	0.2448	1.0159	0.8272	0	0.3191	1.1463
1069	19.6	19	0.7709	0	0.2467	1.0176	0.8361	0	0.3119	1.148
1070	19.8	19	0.772	0	0.2478	1.0198	0.8265	0	0.2879	1.1144
1071	19.2	19	0.7698	0	0.2506	1.0204	0.8127	0	0.3131	1.1258
1072	19.5	19.1	0.7689	0	0.2511	1.02	0.8096	0	0.3944	1.204
1073	19.2	19.1	0.768	0	0.2524	1.0204	0.8246	0	0.4052	1.2298
1074	19.7	19.1	0.7679	0	0.2525	1.0204	0.8095	0	0.3549	1.1644
1075	19.7	19	0.7648	0	0.2515	1.0164	0.817	0	0.4036	1.2205
1076	18.9	19	0.7647	0	0.2513	1.016	0.8576	0	0.395	1.2526
1077	18.4	18.9	0.7629	0	0.2512	1.0141	0.8615	0	0.4016	1.2631
1078	18.6	18.9	0.7588	0	0.2519	1.0107	0.8805	0	0.3666	1.2472
1079	18.7	18.8	0.7569	0	0.2518	1.0086	0.883	0	0.3438	1.2268
1080	18.6	18.7	0.7575	0	0.2496	1.0071	0.8597	0	0.3643	1.224
1081	19.1	18.7	0.7565	0	0.2474	1.0039	0.8516	0	0.375	1.2266
1082	18.7	18.6	0.7553	0	0.2457	1.0009	0.877	0	0.3663	1.2432
1083	18.5	18.5	0.7545	0	0.2445	0.9989	0.8966	0	0.3802	1.2768
1084	17.9	18.5	0.7563	0	0.244	1.0003	0.8915	0	0.3674	1.2589
1085	17.6	18.4	0.7555	0	0.2466	1.002	0.9994	0	0.1386	1.1379
1086	18.2	18.4	0.7555	0	0.2537	1.0092	1.4585	0	-1.0111	0.4474
1087	18.4	18.3	0.7534	0	0.2531	1.0065	1.4385	0	-0.8472	0.5914
1088	17.9	18.3	0.7518	0	0.2498	1.0016	1.4699	0	-0.8537	0.6161
1089	18.4	18.2	0.7513	0	0.2463	0.9976	1.4835	0	-0.8696	0.6139
1090	18.6	18.2	0.7503	0	0.2444	0.9948	1.4847	0	-0.7937	0.691
1091	17.6	18.1	0.7488	0	0.2449	0.9937	1.4695	0	-0.7078	0.7617
1092	17.7	18	0.7475	0	0.2452	0.9927	1.4575	0	-0.6403	0.8172
1093	19.2	18	0.7457	0	0.2444	0.9901	1.4584	0	-0.5943	0.864
1094	18.8	17.9	0.7455	0	0.2402	0.9858	1.4702	0	-0.6698	0.8004
1095	17.7	17.9	0.7442	0	0.2359	0.9802	1.4967	0	-0.8473	0.6495
1096	17.2	17.8	0.7426	0	0.2378	0.9804	1.5124	0	-0.8602	0.6522
1097	18.2	17.8	0.7415	0	0.2383	0.9798	1.497	0	-0.719	0.778
1098	17.6	17.7	0.7406	0	0.2375	0.9781	1.4918	0	-0.5997	0.8921
1099	17.4	17.6	0.7409	0	0.2323	0.9732	1.5101	0	-0.579	0.9312
1100	17.6	17.5	0.7413	0	0.2294	0.9707	1.5085	0	-0.5952	0.9133
1101	17.7	17.5	0.7412	0	0.2298	0.971	1.4909	0	-0.5937	0.8972

1102	17.2	17.4	0.7408	0	0.2272	0.968	1.4902	0	-0.5476	0.9426
1103	17.2	17.3	0.7387	0	0.226	0.9647	1.2339	0	-0.7353	0.4986
1104	16.9	17.3	0.7362	0	0.2233	0.9596	1.0516	0	-0.9989	0.0526
1105	17	17.2	0.7345	0	0.2238	0.9583	1.4028	0	-1.0577	0.3451
1106	17.5	17.2	0.733	0	0.2212	0.9542	1.3963	0	-0.9558	0.4405
1107	17.1	17.1	0.7327	0	0.2209	0.9536	1.3655	0	-0.8991	0.4664
1108	16.8	17.1	0.7333	0	0.218	0.9513	1.364	0	-0.846	0.5179
1109	16.5	17	0.733	0	0.216	0.949	1.3658	0	-0.7936	0.5723
1110	16.3	17	0.7359	0	0.2134	0.9493	1.3775	0	-0.7635	0.614
1111	16.8	16.9	0.7407	0	0.209	0.9498	1.4009	0	-0.7335	0.6674
1112	17.3	16.9	0.7389	0	0.2081	0.947	1.4241	0	-0.7246	0.6995
1113	17.7	16.9	0.7369	0	0.2044	0.9413	1.4388	0	-0.7218	0.717
1114	16.6	16.9	0.7367	0	0.2026	0.9393	1.4241	0	-0.669	0.755
1115	16.7	17	0.7356	0	0.2038	0.9394	1.4158	0	-0.6748	0.7411
1116	17.2	17	0.7335	0	0.2055	0.939	1.3873	0	-0.6546	0.7326
1117	16.7	17	0.7314	0	0.2072	0.9387	1.3989	0	-0.6867	0.7122
1118	16.7	17	0.7308	0	0.2071	0.9379	1.384	0	-0.6598	0.7241
1119	16.7	17	0.7319	0	0.2068	0.9387	1.3543	0	-0.651	0.7033
1120	17	16.9	0.7321	0	0.2021	0.9342	1.3457	0	-0.6819	0.6638
1121	17.3	16.9	0.7303	0	0.1952	0.9254	1.355	0	-0.7138	0.6412
1122	16.8	16.8	0.7281	0	0.1952	0.9233	1.3414	0	-0.6949	0.6466
1123	17.4	16.7	0.7269	0	0.1983	0.9252	1.3262	0	-0.6619	0.6644
1124	18.6	16.7	0.7258	0	0.1945	0.9203	1.2579	0	-0.6183	0.6396
1125	17.4	16.7	0.7222	0	0.1948	0.917	1.216	0	-0.5662	0.6498
1126	16.6	16.6	0.722	0	0.1936	0.9156	1.201	0	-0.5414	0.6596
1127	16.6	16.6	0.7201	0	0.1938	0.914	1.217	0	-0.5063	0.7107
1128	16	16.6	0.719	0	0.1926	0.9116	1.2078	0	-0.5223	0.6855
1129	15.7	16.5	0.7191	0	0.1905	0.9096	1.1762	0	-0.4615	0.7148
1130	15.7	16.5	0.7183	0	0.191	0.9093	1.1581	0	-0.3827	0.7754
1131	15.8	16.5	0.7166	0	0.1914	0.908	1.1609	0	-0.3984	0.7625
1132	16	16.5	0.7154	0	0.1901	0.9055	1.1658	0	-0.4668	0.699
1133	16.2	16.4	0.7147	0	0.1889	0.9036	1.1697	0	-0.5492	0.6205
1134	16.4	16.3	0.7038	0	0.2122	0.916	1.1678	0	-0.5732	0.5946
1135	16.8	16.2	0.6564	0	0.326	0.9823	1.1949	0	-0.5795	0.6153
1136	16.2	16.1	0.6606	0	0.3186	0.9792	1.1995	0	-0.5654	0.634
1137	16.1	16	0.659	0	0.3178	0.9768	1.2074	0	-0.3839	0.8235
1138	15.7	16	0.6574	0	0.3131	0.9704	1.2009	0	-0.3575	0.8434

1139	16.7	15.9	0.6564	0	0.3026	0.959	1.2016	0	-0.4037	0.7979
1140	17.6	15.8	0.6575	0	0.2944	0.9518	1.2097	0	-0.4234	0.7863
1141	16.7	15.7	0.6582	0	0.2887	0.947	1.2122	0	-0.4174	0.7949
1142	15.7	15.6	0.6581	0	0.2845	0.9426	1.2105	0	-0.4051	0.8054
1143	15.6	15.5	0.6565	0	0.2895	0.946	1.211	0	-0.3967	0.8142
1144	15.4	15.4	0.6524	0	0.3065	0.9589	1.1976	0	-0.421	0.7766
1145	15	15.2	0.6493	0	0.3121	0.9614	1.2127	0	-0.4515	0.7611
1146	15.7	15.1	0.6497	0	0.3007	0.9504	1.2128	0	-0.5109	0.7018
1147	14.8	15.1	0.6496	0	0.294	0.9436	1.1086	0	-0.4152	0.6934
1148	14.5	15	0.648	0	0.2922	0.9402	1.0502	0	-0.3539	0.6963
1149	13.8	14.9	0.6478	0	0.2922	0.94	1.0508	0	-0.3494	0.7014
1150	14	14.8	0.6482	0	0.2932	0.9414	1.0579	0	-0.388	0.6699
1151	14.2	14.7	0.6475	0	0.2899	0.9374	1.0745	0	-0.405	0.6696
1152	14.2	14.7	0.6735	0	0.3089	0.9824	1.0944	0	-0.3938	0.7006
1153	14.1	14.7	0.6918	0	0.3373	1.0292	1.112	0	-0.5855	0.5265
1154	13.7	14.7	0.6503	0	0.332	0.9823	1.1055	0	-0.56	0.5455
1155	14.4	14.7	0.6502	0	0.3258	0.976	1.1016	0	-0.5657	0.5359
1156	15	14.6	0.65	0	0.3218	0.9718	1.0815	0	-0.5317	0.5498
1157	14.8	14.6	0.6481	0	0.3158	0.9639	1.0474	0	-0.4987	0.5487
1158	15	14.7	0.6473	0	0.3092	0.9565	1.029	0	-0.4415	0.5874
1159	14.8	14.8	0.6457	0	0.3071	0.9528	1.0271	0	-0.4376	0.5896
1160	15.1	14.8	0.6429	0	0.307	0.9499	1.0094	0	-0.4379	0.5715
1161	15.4	14.9	0.64	0	0.3066	0.9466	1.0398	0	-0.4718	0.568
1162	15.2	15	0.6379	0	0.306	0.9439	1.0831	0	-0.5208	0.5623
1163	15.4	15.1	0.6365	0	0.307	0.9435	1.0535	0	-0.5027	0.5508
1164	14.6	15.2	0.6371	0	0.3073	0.9444	1.0252	0	-0.5096	0.5156
1165	14.6	15.2	0.6376	0	0.3055	0.943	1.0144	0	-0.5172	0.4972
1166	15.1	15.1	0.6356	0	0.3092	0.9449	0.9919	0	-0.5009	0.491
1167	15.8	15.1	0.6352	0	0.3082	0.9435	0.9584	0	-0.4742	0.4842
1168	15.5	15	0.6356	0	0.3099	0.9455	0.9265	0	-0.4465	0.48
1169	14.8	15	0.6363	0	0.3149	0.9512	0.9125	0	-0.4364	0.4761
1170	15	15	0.6365	0	0.3192	0.9557	0.9257	0	-0.45	0.4757
1171	15.9	14.9	0.6356	0	0.3201	0.9557	0.9337	0	-0.4997	0.434
1172	16.1	14.8	0.6363	0	0.3173	0.9536	0.9262	0	-0.5742	0.352
1173	15.5	14.7	0.6422	0	0.3142	0.9564	0.9023	0	-0.5961	0.3063
1174	14.6	14.7	0.6463	0	0.3091	0.9554	0.8846	0	-0.5593	0.3254
1175	14.5	14.7	0.6447	0	0.3057	0.9504	0.8715	0	-0.5777	0.2938

1176	13.8	14.6	0.643	0	0.3019	0.9449	0.8335	0	-0.5536	0.28
1177	13.3	14.5	0.6421	0	0.3035	0.9455	0.8169	0	-0.5276	0.2893
1178	14.1	14.4	0.6411	0	0.2981	0.9392	0.7645	0	-0.4659	0.2987
1179	14.8	14.3	0.6411	0	0.29	0.9311	0.7233	0	-0.4402	0.2831
1180	14.5	14.2	0.6414	0	0.2894	0.9308	0.7334	0	-0.4265	0.307
1181	14.1	14.1	0.6399	0	0.2941	0.934	0.7301	0	-0.411	0.319
1182	13.4	13.9	0.6383	0	0.3006	0.9389	0.7144	0	-0.4003	0.3141
1183	14.1	13.9	0.6377	0	0.3018	0.9395	0.7025	0	-0.4139	0.2886
1184	14.1	13.8	0.6368	0	0.302	0.9388	0.6975	0	-0.4304	0.2671
1185	14.1	13.8	0.6355	0	0.3031	0.9386	0.5896	0	-0.2039	0.3857
1186	13.8	13.9	0.6348	0	0.2921	0.9269	0.117	0	0.9226	1.0396
1187	13.5	14	0.6333	0	0.2888	0.9222	0.1616	0	0.84	1.0016
1188	13	14.1	0.6317	0	0.2902	0.9218	0.1528	0	0.8305	0.9833
1189	12.8	14.2	0.6303	0	0.2886	0.919	0.1339	0	0.759	0.8929
1190	13.1	14.2	0.6291	0	0.2862	0.9153	0.1313	0	0.6501	0.7815
1191	13.5	14.2	0.6277	0	0.2854	0.9132	0.1483	0	0.5505	0.6988
1192	15	14.4	0.6265	0	0.2849	0.9113	0.1602	0	0.4974	0.6576
1193	13.4	14.4	0.6259	0	0.2865	0.9125	0.1575	0	0.466	0.6235
1194	14.6	14.3	0.6243	0	0.2854	0.9096	0.1377	0	0.5181	0.6558
1195	15.2	14.3	0.623	0	0.287	0.91	0.098	0	0.697	0.7949
1196	15.4	14.2	0.6317	0	0.2794	0.9111	0.0751	0	0.7689	0.844
1197	15.8	14.2	0.6365	0	0.2737	0.9102	0.074	0	0.6268	0.7008
1198	15.8	14.2	0.6355	0	0.2724	0.9079	0.0776	0	0.5725	0.6502
1199	15.2	14.3	0.6351	0	0.2711	0.9062	0.0683	0	0.5612	0.6294
1200	15	14.2	0.6338	0	0.2699	0.9038	0.0671	0	0.5319	0.5989
1201	15.4	14.2	0.6318	0	0.2691	0.9009	0.067	0	0.536	0.6029
1202	14	14.1	0.6296	0	0.2858	0.9154	0.0589	0	0.5154	0.5744
1203	13.5	14.1	0.6281	0	0.282	0.9101	0.3236	0	0.7232	1.0469
1204	13.1	14	0.6261	0	0.2799	0.906	0.5135	0	1.0331	1.5466
1205	13.2	13.9	0.6264	0	0.277	0.9034	0.1059	0	1.0099	1.1158
1206	13.3	13.7	0.6282	0	0.2711	0.8993	0.1113	0	0.9654	1.0767
1207	13.3	13.6	0.6298	0	0.265	0.8949	0.115	0	0.9617	1.0767
1208	12.9	13.5	0.6305	0	0.2618	0.8923	0.1015	0	0.9267	1.0282
1209	12.3	13.4	0.6321	0	0.2598	0.8919	0.0745	0	0.8709	0.9454
1210	13.3	13.3	0.6319	0	0.2606	0.8925	0.0633	0	0.8617	0.9249
1211	13	13.1	0.6324	0	0.2611	0.8935	0.0473	0	0.8733	0.9206
1212	12.9	13.1	0.6336	0	0.2583	0.8919	0.0251	0	0.876	0.9011

1213	12.8	13	0.6344	0	0.2554	0.8897	0.0086	0	0.879	0.8876
1214	13	13	0.6353	0	0.2544	0.8896	-0.0009	0	0.9095	0.9086
1215	13.2	13	0.6364	0	0.2538	0.8903	0.0098	0	0.9187	0.9286
1216	13.4	13	0.6377	0	0.2529	0.8906	0.0266	0	0.8954	0.922
1217	13.5	12.9	0.6388	0	0.2519	0.8907	0.0056	0	0.925	0.9306
1218	13.1	12.9	0.6396	0	0.2507	0.8903	-0.001	0	0.9056	0.9046
1219	12.9	12.9	0.6393	0	0.2518	0.8911	0.0018	0	0.936	0.9377
1220	12.9	12.9	0.6388	0	0.2521	0.8908	0.0061	0	0.9882	0.9943
1221	12.7	12.9	0.6377	0	0.2526	0.8902	0.0074	0	1.0321	1.0394
1222	12.8	12.9	0.6379	0	0.2548	0.8927	0.0015	0	1.0422	1.0437
1223	12.5	12.9	0.6385	0	0.2542	0.8927	0.0064	0	0.9965	1.003
1224	12.9	13	0.6386	0	0.2523	0.8909	0.0606	0	0.9356	0.9962
1225	13.1	12.9	0.6388	0	0.2501	0.889	0.1096	0	0.8984	1.008
1226	12.5	12.9	0.6403	0	0.2464	0.8867	0.0926	0	0.863	0.9556
1227	12.6	13	0.6437	0	0.2404	0.8841	0.076	0	0.8668	0.9428
1228	12	13	0.6467	0	0.2366	0.8833	0.0654	0	0.9247	0.9901
1229	13.5	13	0.6458	0	0.2331	0.8789	0.0548	0	0.8858	0.9406
1230	13.4	13.1	0.6453	0	0.2321	0.8774	0.057	0	0.82	0.877
1231	12.9	13.1	0.6452	0	0.2314	0.8766	0.0655	0	0.8362	0.9016
1232	13	13.2	0.6451	0	0.2315	0.8767	0.0511	0	0.8819	0.933
1233	13.1	13.3	0.645	0	0.2319	0.8769	0.0332	0	0.9417	0.9749
1234	13.1	13.3	0.6448	0	0.2326	0.8774	0.0267	0	0.9752	1.0019
1235	13.4	13.4	0.6447	0	0.2337	0.8784	0.0227	0	0.9479	0.9706
1236	13.7	13.4	0.6444	0	0.2346	0.879	0.0144	0	0.9678	0.9822
1237	13.4	13.4	0.6437	0	0.2347	0.8785	0.0137	0	0.8821	0.8959
1238	13.6	13.5	0.644	0	0.2372	0.8811	0.0009	0	0.8652	0.8662
1239	14.2	13.5	0.6433	0	0.2376	0.8809	-0.0195	0	0.8807	0.8612
1240	14	13.5	0.6426	0	0.2393	0.8819	-0.0335	0	0.8684	0.8349
1241	14.2	13.5	0.6422	0	0.239	0.8812	-0.0502	0	0.8624	0.8122
1242	14	13.6	0.6424	0	0.2379	0.8803	-0.0766	0	0.8285	0.7518
1243	13.6	13.6	0.6428	0	0.2376	0.8804	-0.0895	0	0.83	0.7405
1244	14	13.6	0.6426	0	0.2368	0.8794	-0.1325	0	0.8505	0.7181
1245	13.4	13.7	0.6418	0	0.2352	0.877	-0.1678	0	0.867	0.6992
1246	13	13.7	0.6423	0	0.238	0.8803	-0.1828	0	0.8989	0.7161
1247	13	13.7	0.6418	0	0.2367	0.8786	-0.0916	0	0.8109	0.7193
1248	13.1	13.8	0.6411	0	0.2361	0.8772	-0.039	0	0.7472	0.7082
1249	13.1	13.8	0.6411	0	0.239	0.8801	-0.0472	0	0.754	0.7068

1250	13.7	13.8	0.6415	0	0.2396	0.8811	-0.0533	0	0.7603	0.707
1251	13.9	13.8	0.6416	0	0.2383	0.8799	-0.0655	0	0.7571	0.6916
1252	13.9	13.8	0.6412	0	0.2366	0.8777	-0.0877	0	0.7493	0.6617
1253	14.1	13.8	0.6405	0	0.234	0.8745	-0.1028	0	0.9274	0.8246
1254	13.9	13.8	0.6397	0	0.231	0.8707	-0.1157	0	0.9202	0.8044
1255	14.1	13.8	0.6391	0	0.2293	0.8684	-0.1358	0	0.9288	0.793
1256	14	13.9	0.6385	0	0.2256	0.8641	-0.1299	0	0.8981	0.7682
1257	14.2	13.9	0.638	0	0.2231	0.8611	-0.11	0	0.8283	0.7182
1258	14.6	14	0.6398	0	0.2221	0.8619	-0.0973	0	0.813	0.7157
1259	14.2	14	0.6394	0	0.221	0.8603	-0.1014	0	0.8126	0.7112
1260	13.7	14	0.6382	0	0.2197	0.8579	-0.0897	0	0.8204	0.7306
1261	13.8	14	0.6375	0	0.219	0.8565	-0.0912	0	0.8708	0.7795
1262	14.2	14	0.637	0	0.2181	0.8552	-0.0818	0	0.8681	0.7863
1263	14.5	13.9	0.6366	0	0.216	0.8527	-0.0658	0	0.8255	0.7598
1264	13.8	13.9	0.6361	0	0.2155	0.8516	-0.0574	0	0.7984	0.741
1265	14	13.9	0.6349	0	0.2159	0.8508	-0.0505	0	0.8009	0.7504
1266	13.2	13.9	0.6351	0	0.2167	0.8518	-0.0374	0	0.8013	0.7639
1267	14.1	13.9	0.6353	0	0.2177	0.853	-0.0287	0	0.7911	0.7625
1268	14	13.8	0.6355	0	0.2163	0.8518	-0.02	0	0.781	0.761
1269	13.6	13.8	0.6357	0	0.216	0.8518	-0.0107	0	0.7801	0.7694
1270	13.6	13.9	0.6357	0	0.216	0.8517	-0.0073	0	0.7843	0.777
1271	13.7	13.9	0.6355	0	0.2158	0.8513	-0.0072	0	0.7868	0.7796
1272	13.2	13.8	0.6356	0	0.2177	0.8533	-0.0153	0	0.8128	0.7974
1273	13.7	13.7	0.6361	0	0.2207	0.8568	-0.0138	0	0.8849	0.871
1274	13.6	13.7	0.6353	0	0.2193	0.8546	-0.0101	0	0.9285	0.9183
1275	14.4	13.7	0.6355	0	0.2194	0.8548	-0.0082	0	0.924	0.9158
1276	13.4	13.7	0.6354	0	0.2152	0.8506	-0.0061	0	0.9392	0.9331
1277	14.2	13.7	0.6355	0	0.211	0.8465	0.0132	0	0.9474	0.9605
1278	14.3	13.7	0.6357	0	0.2095	0.8452	0.0496	0	0.9208	0.9703
1279	14.1	13.7	0.6354	0	0.208	0.8434	0.0913	0	0.8944	0.9857
1280	14.1	13.7	0.6349	0	0.2058	0.8407	0.0915	0	0.9035	0.995
1281	13.4	13.7	0.6348	0	0.2059	0.8407	0.0931	0	0.9256	1.0187
1282	12.8	13.7	0.635	0	0.2064	0.8414	0.0911	0	0.9312	1.0223
1283	13.4	13.6	0.635	0	0.2043	0.8393	0.0841	0	0.9327	1.0168
1284	13.3	13.6	0.6345	0	0.2072	0.8417	0.0771	0	0.9461	1.0232
1285	13.9	13.5	0.6341	0	0.2063	0.8404	0.0712	0	0.9959	1.0672
1286	14.3	13.5	0.6334	0	0.2039	0.8373	0.0754	0	1.0137	1.0891

1287	14	13.4	0.6333	0	0.2023	0.8355	0.0848	0	0.9841	1.0689
1288	13.4	13.4	0.6336	0	0.2021	0.8357	0.0725	0	0.9787	1.0512
1289	13.3	13.3	0.6337	0	0.2018	0.8355	0.0744	0	1.0079	1.0824
1290	13	13.3	0.6341	0	0.1999	0.8341	0.0698	0	1.0175	1.0874
1291	12.9	13.2	0.6354	0	0.2026	0.838	0.0649	0	1.0508	1.1157
1292	13.2	13.2	0.6354	0	0.2018	0.8372	0.0625	0	1.0717	1.1342
1293	13.1	13.2	0.6392	0	0.2015	0.8406	0.0662	0	1.0859	1.1521
1294	12.9	13.1	0.641	0	0.1987	0.8397	0.0735	0	1.1094	1.1829
1295	12.8	13	0.6412	0	0.1972	0.8384	0.0829	0	1.1053	1.1882
1296	13.1	13	0.6409	0	0.1983	0.8392	0.0813	0	1.0807	1.162
1297	13.3	12.9	0.6404	0	0.1989	0.8393	0.0853	0	1.1006	1.1859
1298	12.6	12.8	0.6402	0	0.197	0.8372	0.0804	0	1.089	1.1694
1299	13	12.8	0.6404	0	0.1951	0.8355	0.0728	0	1.0859	1.1586
1300	12.4	12.8	0.6404	0	0.1942	0.8346	0.0697	0	1.1347	1.2043
1301	12.6	12.8	0.6406	0	0.1942	0.8348	0.0686	0	1.1512	1.2197
1302	12.6	12.7	0.6399	0	0.193	0.8329	0.0658	0	1.1334	1.1993
1303	12.6	12.7	0.6397	0	0.19	0.8297	0.0639	0	1.1307	1.1946
1304	12.5	12.7	0.6397	0	0.187	0.8267	0.0484	0	1.1118	1.1602
1305	12.5	12.8	0.6394	0	0.1872	0.8266	0.0342	0	1.1148	1.149
1306	12.5	12.8	0.6392	0	0.1882	0.8275	0.0301	0	1.1235	1.1536
1307	12.4	12.8	0.6396	0	0.1837	0.8233	0.0316	0	1.0981	1.1297
1308	12.2	12.9	0.6407	0	0.1805	0.8212	0.0367	0	1.0814	1.1181
1309	13	12.9	0.6411	0	0.1777	0.8188	0.0647	0	1.0725	1.1373
1310	13.1	12.9	0.641	0	0.1735	0.8145	0.0623	0	1.0589	1.1213
1311	12.7	13	0.6406	0	0.1743	0.8149	0.0467	0	1.0505	1.0972
1312	12.6	13	0.6401	0	0.1758	0.8159	0.0426	0	1.0427	1.0853
1313	13.1	13	0.6401	0	0.1755	0.8156	0.0355	0	1.0324	1.0679
1314	13.8	13.1	0.6403	0	0.1743	0.8146	0.0312	0	1.0426	1.0737
1315	13.7	13.1	0.6402	0	0.1737	0.8139	0.0295	0	1.0586	1.088
1316	13.4	13.2	0.6405	0	0.1738	0.8143	0.0139	0	1.0736	1.0876
1317	13.6	13.2	0.6408	0	0.1738	0.8146	0.0144	0	1.0917	1.1061
1318	13.5	13.2	0.6406	0	0.1727	0.8133	0.0206	0	1.108	1.1286
1319	13.1	13.2	0.64	0	0.1734	0.8134	0.0253	0	1.0898	1.1151
1320	13.6	13.3	0.6395	0	0.1734	0.8129	0.029	0	1.0691	1.0981
1321	13.3	13.3	0.6392	0	0.1713	0.8105	0.0346	0	1.0428	1.0774
1322	12.8	13.3	0.6393	0	0.1663	0.8056	0.034	0	1.0119	1.0459
1323	13	13.3	0.6395	0	0.1614	0.8008	0.0361	0	1.0188	1.0549

1324	13	13.2	0.6394	0	0.1599	0.7993	0.0467	0	1.0562	1.1029
1325	13.9	13.2	0.6395	0	0.1562	0.7957	0.0357	0	1.0407	1.0764
1326	13	13.1	0.639	0	0.1516	0.7906	0.0353	0	1.0351	1.0704
1327	13	13.1	0.6387	0	0.1483	0.7871	0.0362	0	1.0024	1.0386
1328	13.3	13.1	0.6375	0	0.1472	0.7847	0.0396	0	0.9929	1.0325
1329	13.5	13.1	0.6367	0	0.1428	0.7794	0.0439	0	1.0195	1.0634
1330	13.2	13.1	0.636	0	0.1396	0.7756	0.0436	0	1.0328	1.0764
1331	12.9	13.1	0.6361	0	0.1383	0.7744	0.0447	0	1.0586	1.1033
1332	12.7	13.1	0.6367	0	0.1382	0.775	0.0576	0	1.0714	1.129
1333	12.5	13.1	0.6373	0	0.1373	0.7746	0.0715	0	1.0929	1.1644
1334	13	13.1	0.6377	0	0.133	0.7707	0.0807	0	1.0826	1.1634
1335	12.6	13	0.6371	0	0.1323	0.7695	0.0856	0	1.1086	1.1942
1336	13.1	13	0.636	0	0.1362	0.7722	0.0846	0	1.0788	1.1635
1337	13.6	13	0.6365	0	0.1369	0.7733	0.0736	0	1.0306	1.1042
1338	13.1	12.9	0.6365	0	0.1364	0.7729	0.0675	0	1.0081	1.0756
1339	13	12.9	0.6363	0	0.1358	0.7721	0.0674	0	0.9936	1.0611
1340	13.3	12.9	0.6362	0	0.1342	0.7704	0.0727	0	0.9773	1.0499
1341	13.3	12.9	0.636	0	0.1318	0.7678	0.0894	0	0.9698	1.0592
1342	13	12.9	0.6357	0	0.1293	0.7651	0.1039	0	1.022	1.1259
1343	12.8	12.9	0.6354	0	0.1267	0.7621	0.1086	0	1.0391	1.1477
1344	12.4	12.9	0.6344	0	0.1263	0.7606	0.1508	0	1.0485	1.1993
1345	12.1	12.9	0.6336	0	0.1272	0.7608	0.1722	0	1.0243	1.1965
1346	13.1	12.8	0.6338	0	0.1279	0.7617	0.1791	0	1.0165	1.1956
1347	12.8	12.8	0.6338	0	0.1278	0.7616	0.1834	0	1.0446	1.228
1348	13	12.7	0.6339	0	0.1275	0.7614	0.1804	0	1.0618	1.2422
1349	13	12.7	0.6341	0	0.1256	0.7597	0.1814	0	1.0396	1.221
1350	13	12.7	0.6347	0	0.1245	0.7591	0.183	0	1.0515	1.2345
1351	13	12.6	0.635	0	0.125	0.76	0.187	0	1.0692	1.2562
1352	12.3	12.6	0.6348	0	0.1235	0.7583	0.1919	0	1.1077	1.2995
1353	12.7	12.6	0.6356	0	0.1229	0.7585	0.1857	0	1.1209	1.3066
1354	12.1	12.6	0.6363	0	0.1195	0.7558	0.1879	0	1.1014	1.2893
1355	12.3	12.7	0.636	0	0.117	0.753	0.1927	0	1.0724	1.2651
1356	12.4	12.7	0.6354	0	0.1158	0.7512	0.1932	0	1.0702	1.2634
1357	12.3	12.7	0.6343	0	0.1149	0.7493	0.1927	0	1.0852	1.2779
1358	12.8	12.7	0.6333	0	0.1149	0.7482	0.1959	0	1.0537	1.2496
1359	13.1	12.7	0.6331	0	0.1151	0.7482	0.2009	0	1.0423	1.2432
1360	12.5	12.7	0.6335	0	0.1146	0.7481	0.2079	0	1.0035	1.2114

1361	12.9	12.7	0.6332	0	0.1147	0.748	0.2075	0	0.9637	1.1712
1362	12.9	12.8	0.6335	0	0.1149	0.7484	0.195	0	0.9656	1.1606
1363	12.4	12.8	0.6335	0	0.1118	0.7453	0.189	0	0.9773	1.1663
1364	12.7	12.9	0.6332	0	0.1096	0.7428	0.1958	0	0.9798	1.1757
1365	13.1	12.9	0.6335	0	0.1086	0.7421	0.2051	0	0.9696	1.1747
1366	13	12.9	0.6336	0	0.1076	0.7412	0.2071	0	0.9514	1.1585
1367	12.6	12.9	0.6333	0	0.1069	0.7401	0.2122	0	0.9352	1.1474
1368	12.6	12.9	0.6329	0	0.1073	0.7403	0.2121	0	0.9181	1.1302
1369	13.2	12.9	0.6328	0	0.1091	0.7419	0.2045	0	0.8813	1.0858
1370	13.6	12.9	0.6323	0	0.1117	0.744	0.1936	0	0.8983	1.0919
1371	13.4	12.9	0.6321	0	0.1146	0.7467	0.1851	0	0.9054	1.0905
1372	13.2	12.8	0.632	0	0.1158	0.7478	0.1809	0	0.8708	1.0517
1373	13.4	12.8	0.6315	0	0.115	0.7465	0.1838	0	0.7897	0.9735
1374	13.3	12.8	0.6318	0	0.1152	0.747	0.2123	0	0.6313	0.8436
1375	12.6	12.8	0.6319	0	0.1159	0.7478	0.2991	0	0.2841	0.5831
1376	12.6	12.7	0.6318	0	0.115	0.7468	0.2169	0	0.1692	0.3861
1377	12.8	12.7	0.6316	0	0.1117	0.7433	0.2219	0	0.1015	0.3235
1378	12.3	12.8	0.6313	0	0.1075	0.7388	0.2338	0	0.0598	0.2936
1379	12.5	12.7	0.631	0	0.1047	0.7358	0.228	0	0.0348	0.2628
1380	12.8	12.7	0.6304	0	0.0999	0.7303	0.222	0	0.008	0.23
1381	11.8	12.7	0.6291	0	0.0987	0.7278	0.2165	0	0.0299	0.2464
1382	11.9	12.7	0.6279	0	0.0971	0.725	0.2209	0	0.0654	0.2862
1383	12.4	12.6	0.6269	0	0.096	0.723	0.2377	0	0.0846	0.3223
1384	12.5	12.6	0.626	0	0.0963	0.7223	0.2463	0	0.1001	0.3464
1385	12.2	12.6	0.6256	0	0.0984	0.7241	0.2557	0	0.0733	0.329
1386	12.5	12.6	0.6261	0	0.1008	0.7269	0.2546	0	0.0831	0.3377
1387	13.3	12.7	0.6265	0	0.1015	0.728	0.2444	0	0.1493	0.3937
1388	13	12.7	0.6269	0	0.1027	0.7296	0.2484	0	0.1878	0.4362
1389	12.5	12.8	0.6264	0	0.1041	0.7305	0.2488	0	0.1972	0.446
1390	12.9	12.8	0.6252	0	0.103	0.7282	0.2488	0	0.1745	0.4233
1391	13.1	12.9	0.625	0	0.1004	0.7254	0.2463	0	0.1229	0.3692
1392	12.9	12.9	0.6245	0	0.0979	0.7225	0.2342	0	0.0814	0.3155
1393	12.6	12.9	0.6241	0	0.0966	0.7207	0.22	0	0.0584	0.2784
1394	12.6	12.9	0.6238	0	0.0963	0.7201	0.2115	0	0.0349	0.2463
1395	13.1	12.9	0.6233	0	0.0955	0.7188	0.1938	0	0.0398	0.2336
1396	13.6	12.9	0.6226	0	0.0938	0.7164	0.1889	0	0.0607	0.2496
1397	13.6	12.8	0.6224	0	0.0927	0.7151	0.1965	0	0.0759	0.2724

1398	13.1	12.8	0.6221	0	0.093	0.7151	0.195	0	0.0676	0.2626
1399	13.9	12.8	0.6221	0	0.0899	0.712	0.1845	0	0.0594	0.2439
1400	12.7	12.7	0.6217	0	0.0873	0.709	0.1773	0	0.0411	0.2184
1401	13.1	12.7	0.6214	0	0.0834	0.7048	0.1837	0	0.0146	0.1983
1402	12.7	12.7	0.6213	0	0.0809	0.7022	0.1883	0	0.0247	0.213
1403	12.5	12.7	0.6209	0	0.0798	0.7008	0.1675	0	0.0582	0.2257
1404	12.2	12.7	0.6204	0	0.0798	0.7002	0.1695	0	0.0686	0.2381
1405	11.8	12.7	0.6201	0	0.0801	0.7002	0.1662	0	0.0437	0.2099
1406	12	12.6	0.62	0	0.0797	0.6997	0.1648	0	0.035	0.1998
1407	12.1	12.6	0.62	0	0.0784	0.6983	0.1653	0	0.0348	0.2001
1408	12.3	12.6	0.6206	0	0.0763	0.6969	0.1569	0	0.0264	0.1832
1409	11.8	12.5	0.6203	0	0.0774	0.6977	0.1446	0	0.0328	0.1775
1410	12.9	12.5	0.6203	0	0.0772	0.6974	0.1438	0	0.0485	0.1924
1411	13.2	12.5	0.6211	0	0.0777	0.6989	0.1521	0	0.0532	0.2052
1412	13	12.5	0.6212	0	0.078	0.6993	0.1587	0	0.0661	0.2248
1413	12.5	12.5	0.6205	0	0.0776	0.6981	0.1652	0	0.0767	0.2419
1414	12.1	12.6	0.6198	0	0.0773	0.6971	0.1604	0	0.0639	0.2243
1415	12.2	12.7	0.6195	0	0.0786	0.698	0.1514	0	0.0661	0.2175
1416	12.3	12.7	0.6193	0	0.0803	0.6996	0.1505	0	0.0623	0.2128
1417	13.4	12.8	0.6196	0	0.082	0.7016	0.1497	0	0.0349	0.1846
1418	12.6	12.9	0.6202	0	0.0846	0.7047	0.1478	0	0.0076	0.1554
1419	12.9	13	0.6207	0	0.0835	0.7042	0.1496	0	-0.0067	0.1429
1420	12.9	13.1	0.621	0	0.0828	0.7038	0.1512	0	0.0123	0.1635
1421	12.8	13.1	0.6211	0	0.0842	0.7053	0.1406	0	0.0253	0.1659
1422	13.1	13.1	0.6209	0	0.0873	0.7082	0.1328	0	0.0524	0.1852
1423	13.3	13.2	0.6182	0	0.0982	0.7165	0.1186	0	0.0855	0.2041
1424	13	13.2	0.6095	0	0.1315	0.741	0.1071	0	0.0947	0.2018
1425	13.7	13.3	0.6178	0	0.1393	0.7571	0.1175	0	0.1022	0.2197
1426	13.8	13.3	0.6168	0	0.1415	0.7583	0.1348	0	0.0983	0.2331
1427	14.1	13.3	0.6154	0	0.1424	0.7577	0.1477	0	0.0632	0.2108
1428	14.1	13.3	0.6147	0	0.1437	0.7584	0.1439	0	0.049	0.1928
1429	13.4	13.4	0.6145	0	0.1419	0.7564	0.1435	0	0.0191	0.1626
1430	13.1	13.4	0.6143	0	0.1366	0.7509	0.1461	0	-0.0069	0.1392
1431	13.8	13.4	0.614	0	0.1318	0.7458	0.139	0	-0.0601	0.0789
1432	14.2	13.4	0.613	0	0.1298	0.7427	0.1236	0	-0.0603	0.0633
1433	12.9	13.4	0.6127	0	0.1273	0.7399	0.1097	0	-0.067	0.0426
1434	13.6	13.4	0.6121	0	0.1257	0.7378	0.1011	0	-0.0775	0.0236

1435	12.9	13.4	0.6117	0	0.124	0.7357	0.0961	0	-0.0657	0.0303
1436	12.6	13.4	0.6115	0	0.1213	0.7328	0.0934	0	-0.0392	0.0541
1437	13.4	13.3	0.6116	0	0.1181	0.7297	0.0861	0	-0.0103	0.0758
1438	13.4	13.2	0.6116	0	0.1166	0.7283	0.0926	0	0.0373	0.1299
1439	12.9	13.2	0.6114	0	0.1184	0.7298	0.0929	0	0.0585	0.1514
1440	13	13.1	0.6115	0	0.1219	0.7335	0.0884	0	0.1032	0.1916
1441	13.7	13	0.6126	0	0.1237	0.7362	0.0809	0	0.1362	0.2171
1442	13.2	12.9	0.6137	0	0.1235	0.7372	0.0867	0	0.1486	0.2354
1443	13.6	12.8	0.6143	0	0.1232	0.7375	0.0922	0	0.1514	0.2435
1444	13.5	12.7	0.615	0	0.1223	0.7372	0.1001	0	0.1569	0.257
1445	13.2	12.7	0.6147	0	0.1211	0.7358	0.1082	0	0.1584	0.2666
1446	12.7	12.7	0.6141	0	0.1203	0.7344	0.1061	0	0.1447	0.2508
1447	12.6	12.6	0.6143	0	0.1211	0.7354	0.0945	0	0.119	0.2135
1448	12.3	12.5	0.6154	0	0.1216	0.737	0.095	0	0.0958	0.1908
1449	11.8	12.5	0.6164	0	0.1215	0.7378	0.0913	0	0.1073	0.1986
1450	12.3	12.4	0.6163	0	0.123	0.7393	0.0835	0	0.1049	0.1884
1451	11.2	12.4	0.6162	0	0.1225	0.7387	0.0735	0	0.1171	0.1906
1452	11.4	12.4	0.618	0	0.1177	0.7357	0.0765	0	0.1174	0.1939
1453	12.1	12.3	0.6187	0	0.116	0.7347	0.0874	0	0.102	0.1894
1454	12.2	12.3	0.6197	0	0.1152	0.7348	0.0889	0	0.1005	0.1893
1455	12.1	12.3	0.6196	0	0.1135	0.733	0.0847	0	0.1197	0.2043
1456	11.9	12.3	0.6188	0	0.1123	0.7312	0.085	0	0.1351	0.2201
1457	11.9	12.3	0.6186	0	0.1123	0.7309	0.0852	0	0.1461	0.2313
1458	12.1	12.3	0.6189	0	0.1116	0.7305	0.0861	0	0.1443	0.2305
1459	12.6	12.3	0.6188	0	0.1102	0.729	0.0929	0	0.1318	0.2247
1460	12.8	12.4	0.6183	0	0.1093	0.7276	0.0868	0	0.1658	0.2526
1461	13.1	12.4	0.6174	0	0.1081	0.7255	0.0869	0	0.1937	0.2807
1462	12.4	12.5	0.617	0	0.1072	0.7242	0.1065	0	0.1521	0.2586
1463	13	12.5	0.6175	0	0.1054	0.7228	0.1142	0	0.1641	0.2783
1464	13.1	12.5	0.6181	0	0.103	0.721	0.102	0	0.2086	0.3105
1465	12.5	12.5	0.6185	0	0.1023	0.7208	0.0925	0	0.2491	0.3416
1466	12.2	12.6	0.6187	0	0.1041	0.7227	0.0974	0	0.2784	0.3758
1467	12.4	12.6	0.6185	0	0.1061	0.7246	0.1051	0	0.3195	0.4246
1468	13	12.6	0.618	0	0.108	0.726	0.108	0	0.3643	0.4723
1469	13.2	12.6	0.6177	0	0.1079	0.7256	0.1069	0	0.3635	0.4704
1470	12	12.6	0.6182	0	0.1092	0.7274	0.1076	0	0.2545	0.3621
1471	12.1	12.5	0.6188	0	0.1094	0.7282	0.1022	0	0.2475	0.3497

1472	12.8	12.5	0.6202	0	0.1072	0.7274	0.1132	0	0.2631	0.3763
1473	12.8	12.5	0.6207	0	0.1056	0.7263	0.1102	0	0.2827	0.3929
1474	12.4	12.5	0.62	0	0.105	0.725	0.0862	0	0.3901	0.4763
1475	12.4	12.5	0.6185	0	0.106	0.7245	0.0001	0	0.743	0.7431
1476	12.4	12.6	0.617	0	0.1087	0.7257	0.0817	0	0.8458	0.9274
1477	12.2	12.6	0.6172	0	0.1068	0.724	0.069	0	0.8938	0.9628
1478	12.4	12.6	0.6169	0	0.1056	0.7225	0.0499	0	0.9391	0.989
1479	12.5	12.5	0.6164	0	0.1054	0.7218	0.0462	0	0.9983	1.0445
1480	12.3	12.5	0.6165	0	0.106	0.7225	0.0452	0	1.0489	1.0941
1481	12.2	12.6	0.6167	0	0.1048	0.7215	0.0529	0	1.0155	1.0684
1482	12.6	12.6	0.6169	0	0.1038	0.7207	0.0644	0	0.968	1.0325
1483	13.2	12.6	0.6168	0	0.1038	0.7206	0.0648	0	0.953	1.0178
1484	13.1	12.7	0.6164	0	0.1029	0.7193	0.0621	0	0.9384	1.0005
1485	12.9	12.8	0.6163	0	0.1024	0.7186	0.0523	0	0.9274	0.9797
1486	12.7	12.8	0.6174	0	0.1018	0.7193	0.051	0	0.8913	0.9423
1487	12.6	12.8	0.6172	0	0.0977	0.715	0.0274	0	0.6195	0.6469
1488	12.4	12.8	0.6176	0	0.0969	0.7144	0.0358	0	0.5482	0.584
1489	12.5	12.8	0.6176	0	0.0937	0.7113	0.0417	0	0.5457	0.5875
1490	12.9	12.8	0.6171	0	0.0893	0.7064	0.043	0	0.5831	0.6261
1491	13.2	12.9	0.6163	0	0.0855	0.7019	0.044	0	0.6531	0.6971
1492	13.5	12.9	0.6153	0	0.0828	0.6981	0.053	0	0.7155	0.7685
1493	13.6	12.8	0.6141	0	0.0809	0.695	0.0653	0	0.7437	0.809
1494	13.4	12.8	0.613	0	0.0804	0.6934	0.069	0	0.7591	0.8281
1495	12.5	12.8	0.6127	0	0.081	0.6938	0.0594	0	0.6962	0.7556
1496	12.2	12.7	0.6131	0	0.0819	0.695	0.0546	0	0.721	0.7756
1497	12.9	12.7	0.6129	0	0.0832	0.696	0.053	0	0.7571	0.8101
1498	12.6	12.7	0.613	0	0.0823	0.6953	0.058	0	0.7859	0.844
1499	12.5	12.6	0.6137	0	0.0795	0.6932	0.0701	0	0.7888	0.8589
1500	13.2	12.6	0.6143	0	0.0756	0.6899	0.0813	0	0.782	0.8633
1501	13.1	12.5	0.6137	0	0.0717	0.6854	0.0791	0	0.8089	0.888
1502	12.2	12.4	0.6126	0	0.0707	0.6833	0.0809	0	0.8323	0.9133
1503	12.5	12.3	0.612	0	0.0698	0.6818	0.0958	0	0.7932	0.889
1504	11.8	12.2	0.6119	0	0.0678	0.6798	0.1077	0	0.795	0.9028
1505	11.8	12.2	0.6116	0	0.0666	0.6782	0.1251	0	0.8092	0.9343
1506	12.1	12.3	0.6115	0	0.0651	0.6766	0.1243	0	0.8001	0.9244
1507	12.1	12.2	0.6114	0	0.0639	0.6753	0.1074	0	0.8065	0.9139
1508	11.6	12.2	0.6113	0	0.0631	0.6744	0.0974	0	0.8379	0.9353

1509	11.5	12.2	0.6116	0	0.0608	0.6724	0.1087	0	0.8239	0.9326
1510	11.9	12.1	0.6116	0	0.0578	0.6694	0.1223	0	0.8056	0.9279
1511	11.9	12.1	0.6105	0	0.0625	0.673	0.1293	0	0.7886	0.9179
1512	11.2	12.1	0.6098	0	0.0616	0.6715	0.1274	0	0.7516	0.8791
1513	12.2	12.1	0.6103	0	0.0567	0.667	0.1381	0	0.6137	0.7518
1514	12.7	12.1	0.6106	0	0.0524	0.663	0.147	0	0.522	0.6689
1515	12.7	12.1	0.6097	0	0.0507	0.6605	0.1626	0	0.4764	0.639
1516	12.4	12.1	0.6088	0	0.0483	0.6571	0.1789	0	0.4662	0.6452
1517	12.2	12.2	0.6088	0	0.0456	0.6543	0.1871	0	0.4893	0.6765
1518	12.1	12.2	0.6095	0	0.0482	0.6577	0.196	0	0.5299	0.7258
1519	12.2	12.3	0.6099	0	0.0581	0.668	0.2106	0	0.5749	0.7855
1520	12.4	12.3	0.6108	0	0.0581	0.6689	0.2232	0	0.629	0.8521
1521	12.5	12.4	0.6098	0	0.0579	0.6677	0.2199	0	0.3912	0.6111
1522	11.9	12.5	0.6099	0	0.059	0.6689	0.2228	0	0.3862	0.609
1523	12.1	12.6	0.6096	0	0.0592	0.6688	0.2429	0	0.3889	0.6318
1524	12.4	12.6	0.6095	0	0.0572	0.6667	0.2617	0	0.3828	0.6445
1525	12.3	12.6	0.6096	0	0.0547	0.6643	0.2593	0	0.4041	0.6635
1526	12.5	12.6	0.6099	0	0.0521	0.662	0.2387	0	0.4587	0.6974
1527	13	12.7	0.6104	0	0.0484	0.6588	0.222	0	0.5207	0.7428
1528	12.5	12.8	0.6101	0	0.0439	0.654	0.2217	0	0.5332	0.7549
1529	13	12.8	0.6099	0	0.0371	0.647	0.2173	0	0.5232	0.7405
1530	13.3	12.8	0.6091	0	0.035	0.6441	0.2151	0	0.5045	0.7196
1531	13.4	12.9	0.6076	0	0.035	0.6425	0.2203	0	0.5142	0.7345
1532	13.2	12.9	0.6065	0	0.0345	0.641	0.2241	0	0.5068	0.7309
1533	13	13	0.6065	0	0.0334	0.6399	0.2277	0	0.4972	0.7249
1534	12.9	13	0.6069	0	0.0329	0.6398	0.23	0	0.4878	0.7177
1535	13.2	13.1	0.6066	0	0.0349	0.6415	0.2256	0	0.4439	0.6695
1536	13.8	13	0.6088	0	0.0593	0.6681	0.2327	0	0.4207	0.6534
1537	13.1	13	0.608	0	0.0633	0.6713	0.242	0	0.4352	0.6772
1538	12.4	13	0.6075	0	0.0621	0.6695	0.236	0	0.4155	0.6515
1539	12.9	13	0.6071	0	0.06	0.6672	0.2304	0	0.4195	0.6499
1540	13.5	12.9	0.6071	0	0.0566	0.6637	0.2215	0	0.4098	0.6313
1541	13.2	12.8	0.6073	0	0.0521	0.6594	0.2067	0	0.396	0.6027
1542	12.9	12.8	0.6072	0	0.0491	0.6563	0.1788	0	0.3682	0.547
1543	13.1	12.8	0.6074	0	0.0473	0.6547	0.1604	0	0.3966	0.557
1544	13.2	12.8	0.609	0	0.0527	0.6617	0.1505	0	0.4319	0.5824
1545	12.2	12.8	0.6093	0	0.049	0.6583	0.1588	0	0.4354	0.5942

1546	12.2	12.7	0.6088	0	0.0446	0.6534	0.1686	0	0.4334	0.602
1547	12.4	12.6	0.6085	0	0.0425	0.651	0.1831	0	0.4539	0.637
1548	12.3	12.6	0.6084	0	0.0427	0.6511	0.1805	0	0.4947	0.6751
1549	12.2	12.6	0.6082	0	0.0433	0.6515	0.1703	0	0.5137	0.684
1550	12.3	12.5	0.6084	0	0.0421	0.6505	0.1673	0	0.5104	0.6776
1551	12.9	12.5	0.6081	0	0.0393	0.6474	0.1695	0	0.4991	0.6686
1552	13.1	12.5	0.6084	0	0.0384	0.6468	0.1634	0	0.4399	0.6033
1553	13	12.4	0.6079	0	0.0365	0.6444	0.1569	0	0.4268	0.5837
1554	12.2	12.4	0.6072	0	0.0343	0.6414	0.1509	0	0.4438	0.5947
1555	12	12.4	0.6071	0	0.0334	0.6406	0.146	0	0.4463	0.5923
1556	11.9	12.5	0.6081	0	0.0317	0.6398	0.1357	0	0.4685	0.6042
1557	11.7	12.5	0.6089	0	0.0285	0.6374	0.1334	0	0.4857	0.6192
1558	12.3	12.5	0.608	0	0.0292	0.6372	0.1418	0	0.4838	0.6256
1559	12.9	12.6	0.6065	0	0.0297	0.6362	0.1495	0	0.4724	0.6218
1560	12.2	12.6	0.6054	0	0.0304	0.6358	0.1548	0	0.4365	0.5912
1561	12.5	12.6	0.6046	0	0.033	0.6376	0.1609	0	0.3962	0.5571
1562	12.5	12.6	0.6032	0	0.0459	0.649	0.1557	0	0.422	0.5777
1563	13.1	12.6	0.6028	0	0.0532	0.656	0.1456	0	0.4128	0.5584
1564	12.8	12.6	0.6018	0	0.0554	0.6571	0.1508	0	0.3779	0.5287
1565	12.5	12.6	0.6006	0	0.0557	0.6563	0.1704	0	0.3428	0.5132
1566	12.8	12.6	0.6	0	0.0551	0.6551	0.1872	0	0.3303	0.5175
1567	12.2	12.6	0.5989	0	0.0531	0.652	0.1947	0	0.3134	0.508
1568	13.6	12.6	0.5969	0	0.0505	0.6474	0.2112	0	0.2557	0.4669
1569	13.2	12.6	0.5954	0	0.045	0.6404	0.2226	0	0.2522	0.4749
1570	13.1	12.6	0.5962	0	0.0701	0.6663	0.2372	0	0.3594	0.5967
1571	13	12.6	0.5965	0	0.0708	0.6673	0.249	0	0.3836	0.6326
1572	12.4	12.6	0.5959	0	0.0683	0.6642	0.2472	0	0.3957	0.6429
1573	12.4	12.6	0.5946	0	0.0673	0.6619	0.2531	0	0.4145	0.6677
1574	12.3	12.7	0.5941	0	0.0646	0.6587	0.2238	0	0.1938	0.4176
1575	12.1	12.6	0.5946	0	0.0602	0.6548	0.1803	0	-0.1815	-0.0012
1576	12.4	12.7	0.5948	0	0.0566	0.6514	0.2213	0	-0.235	-0.0137
1577	12.2	12.7	0.595	0	0.0535	0.6485	0.4365	0	-0.4438	-0.0073
1578	12.4	12.6	0.5952	0	0.0533	0.6485	0.478	0	-0.9931	-0.5151
1579	12.3	12.6	0.5949	0	0.055	0.6499	0.4897	0	-1.0584	-0.5687
1580	12.6	12.6	0.5945	0	0.0545	0.649	0.5218	0	-1.1081	-0.5864
1581	12.6	12.7	0.5943	0	0.0541	0.6484	0.539	0	-1.1075	-0.5685
1582	12.9	12.7	0.5941	0	0.0541	0.6482	0.538	0	-1.0978	-0.5598

1583	13.4	12.8	0.5938	0	0.055	0.6488	0.5353	0	-1.1026	-0.5673
1584	12.4	12.8	0.5938	0	0.0585	0.6523	0.5356	0	-1.1098	-0.5743
1585	13.2	12.9	0.593	0	0.0603	0.6533	0.5296	0	-1.0903	-0.5607
1586	12.6	12.8	0.5932	0	0.0583	0.6516	0.5384	0	-1.017	-0.4787
1587	12.8	12.8	0.5936	0	0.0562	0.6498	0.5812	0	-0.6903	-0.109
1588	12.7	12.9	0.5945	0	0.0549	0.6495	0.5851	0	-0.5993	-0.0142
1589	13	12.9	0.5954	0	0.0528	0.6482	0.5895	0	-0.5496	0.04
1590	14	12.9	0.5964	0	0.0498	0.6462	0.5852	0	-0.5136	0.0716
1591	13.9	13	0.5984	0	0.0487	0.6472	0.5733	0	-0.5074	0.0658
1592	13	13	0.5993	0	0.0431	0.6424	0.561	0	-0.5245	0.0365
1593	13.2	13	0.599	0	0.0378	0.6368	0.5512	0	-0.5248	0.0264
1594	12.6	13	0.5971	0	0.0369	0.634	0.5523	0	-0.487	0.0652
1595	12.1	13	0.5959	0	0.0377	0.6336	0.5599	0	-0.4363	0.1237
1596	12.4	13	0.5948	0	0.0365	0.6313	0.5554	0	-0.4313	0.124
1597	12.7	12.9	0.5948	0	0.0337	0.6285	0.537	0	-0.4762	0.0608
1598	13	12.9	0.5959	0	0.0309	0.6269	0.538	0	-0.5028	0.0351
1599	13.5	13	0.597	0	0.0284	0.6254	0.5441	0	-0.4929	0.0512
1600	13	12.9	0.5974	0	0.0257	0.6231	0.54	0	-0.4752	0.0649
1601	13.3	12.8	0.5974	0	0.0277	0.6251	0.5392	0	-0.4791	0.0601
1602	12.9	12.8	0.5969	0	0.0281	0.6249	0.5348	0	-0.4983	0.0365
1603	12.6	12.7	0.597	0	0.0254	0.6224	0.5168	0	-0.4809	0.0358
1604	12.8	12.7	0.5973	0	0.0232	0.6205	0.4862	0	-0.484	0.0023
1605	12.5	12.8	0.598	0	0.0198	0.6178	0.4755	0	-0.5075	-0.032
1606	12.4	12.8	0.5981	0	0.0165	0.6146	0.478	0	-0.525	-0.047
1607	13.1	12.8	0.5972	0	0.0155	0.6127	0.4989	0	-0.5346	-0.0357
1608	13.1	12.8	0.5964	0	0.0159	0.6123	0.5135	0	-0.5483	-0.0347
1609	12.6	12.7	0.5961	0	0.0172	0.6133	0.4987	0	-0.5088	-0.0101
1610	12.5	12.7	0.5955	0	0.0182	0.6136	0.4772	0	-0.4538	0.0234
1611	12.4	12.7	0.5949	0	0.0203	0.6152	0.474	0	-0.4291	0.0448
1612	12.3	12.7	0.5953	0	0.0204	0.6156	0.4767	0	-0.4092	0.0675
1613	12.6	12.7	0.5952	0	0.0189	0.6141	0.4737	0	-0.3146	0.1592
1614	13	12.7	0.5935	0	0.0181	0.6116	0.4896	0	-0.2568	0.2328
1615	13.1	12.7	0.591	0	0.0177	0.6087	0.5057	0	-0.2434	0.2623
1616	12.4	12.7	0.5893	0	0.017	0.6063	0.5097	0	-0.2471	0.2626
1617	12.3	12.7	0.5877	0	0.02	0.6076	0.5113	0	-0.2613	0.25
1618	12.2	12.7	0.5872	0	0.023	0.6102	0.5152	0	-0.2907	0.2245
1619	12.6	12.7	0.5862	0	0.0222	0.6083	0.5027	0	-0.3284	0.1743

1620	13.2	12.7	0.5859	0	0.0197	0.6056	0.4983	0	-0.4145	0.0838
1621	13.1	12.8	0.5851	0	0.0183	0.6034	0.5056	0	-0.1869	0.3187
1622	13	12.9	0.5845	0	0.0176	0.6021	0.5048	0	-0.1658	0.339
1623	13	12.9	0.5872	0	0.0398	0.6271	0.499	0	-0.2012	0.2978
1624	12.6	12.9	0.5915	0	0.0753	0.6668	0.5046	0	-0.2385	0.2661
1625	12.8	12.9	0.5875	0	0.0782	0.6657	0.5275	0	-0.284	0.2435
1626	13	12.9	0.5663	0	0.0965	0.6627	0.5514	0	-0.3366	0.2148
1627	12.9	13	0.5626	0	0.1478	0.7103	0.5602	0	-0.3946	0.1655
1628	12.7	13	0.5611	0	0.1497	0.7109	0.5553	0	-0.4083	0.147
1629	12.8	12.9	0.5578	0	0.1479	0.7056	0.5889	0	-0.3951	0.1939
1630	13.6	12.9	0.5552	0	0.1458	0.7009	0.6051	0	-0.3872	0.2178
1631	13.6	12.9	0.5538	0	0.1448	0.6985	0.6133	0	-0.4021	0.2112
1632	13.2	12.9	0.5529	0	0.1447	0.6977	0.6214	0	-0.4083	0.2131
1633	13.3	12.8	0.5529	0	0.1444	0.6973	0.6217	0	-0.4072	0.2145
1634	12.7	12.8	0.5539	0	0.142	0.6959	0.6186	0	-0.3928	0.2258
1635	13	12.8	0.5527	0	0.1366	0.6893	0.6358	0	-0.3802	0.2555
1636	12.8	12.8	0.5507	0	0.1283	0.679	0.638	0	-0.3852	0.2527
1637	12.3	12.8	0.5495	0	0.1232	0.6728	0.6342	0	-0.4079	0.2263
1638	12.3	12.8	0.5485	0	0.117	0.6656	0.6288	0	-0.4297	0.1991
1639	12.9	12.9	0.5486	0	0.1114	0.66	0.6368	0	-0.4406	0.1962
1640	12.9	12.8	0.5498	0	0.1074	0.6572	0.6551	0	-0.4603	0.1948
1641	12.2	12.8	0.5512	0	0.1046	0.6557	0.6746	0	-0.488	0.1866
1642	12.2	12.8	0.5521	0	0.1016	0.6537	0.6924	0	-0.4718	0.2207
1643	11.9	12.7	0.5521	0	0.096	0.6482	0.7009	0	-0.5157	0.1852
1644	13	12.7	0.553	0	0.0963	0.6493	0.7035	0	-0.573	0.1305
1645	12.9	12.6	0.5537	0	0.0921	0.6459	0.6959	0	-0.5684	0.1275
1646	12.6	12.5	0.5551	0	0.0922	0.6474	0.6929	0	-0.5591	0.1338
1647	13.2	12.5	0.5547	0	0.0927	0.6474	0.685	0	-0.5807	0.1043
1648	13.7	12.4	0.554	0	0.092	0.646	0.6875	0	-0.6174	0.0702
1649	13.3	12.3	0.5542	0	0.0908	0.645	0.7115	0	-0.6518	0.0597
1650	12.8	12.3	0.5545	0	0.09	0.6445	0.7456	0	-0.6998	0.0458
1651	12.7	12.2	0.5546	0	0.0891	0.6437	0.7517	0	-0.7453	0.0065
1652	12.7	12.2	0.5568	0	0.0865	0.6432	0.7671	0	-0.7156	0.0514
1653	11.9	12.2	0.5593	0	0.0849	0.6442	0.7635	0	-0.7098	0.0538
1654	11.5	12.1	0.5596	0	0.085	0.6446	0.754	0	-0.7182	0.0358
1655	11.1	12.1	0.5593	0	0.0859	0.6453	0.7392	0	-0.7265	0.0127
1656	11.4	12.2	0.5582	0	0.0851	0.6433	0.7285	0	-0.7565	-0.028

1657	11.4	12.2	0.5575	0	0.0833	0.6409	0.7229	0	-0.7716	-0.0487
1658	10.9	12.2	0.5581	0	0.0801	0.6382	0.7086	0	-0.7816	-0.0731
1659	11.3	12.2	0.5588	0	0.075	0.6338	0.6918	0	-0.7799	-0.088
1660	11.5	12.2	0.558	0	0.0734	0.6313	0.6888	0	-0.7744	-0.0856
1661	11.4	12.2	0.557	0	0.0739	0.6308	0.6873	0	-0.7797	-0.0923
1662	12.1	12.2	0.5558	0	0.0773	0.6331	0.6889	0	-0.7945	-0.1056
1663	12.3	12.3	0.5538	0	0.0789	0.6327	0.6968	0	-0.8473	-0.1506
1664	12.6	12.3	0.5512	0	0.0797	0.6309	0.6869	0	-0.8935	-0.2066
1665	13.2	12.5	0.5496	0	0.0804	0.63	0.6449	0	-0.8707	-0.2258
1666	13.7	12.6	0.5488	0	0.0813	0.6301	0.6067	0	-0.8358	-0.2291
1667	13.6	12.7	0.5474	0	0.0822	0.6296	0.5757	0	-0.8298	-0.2542
1668	13.1	12.9	0.5466	0	0.0833	0.63	0.5419	0	-0.7953	-0.2534
1669	12.8	13	0.5456	0	0.0865	0.632	0.5154	0	-0.7509	-0.2355
1670	13	13.2	0.5457	0	0.0888	0.6344	0.486	0	-0.7342	-0.2482
1671	12.8	13.3	0.5461	0	0.0874	0.6334	0.4736	0	-0.7375	-0.2639
1672	12.9	13.4	0.546	0	0.0885	0.6344	0.4577	0	-0.7523	-0.2945
1673	13.2	13.5	0.5441	0	0.0911	0.6353	0.4429	0	-0.7313	-0.2884
1674	13.4	13.5	0.5413	0	0.093	0.6343	0.4701	0	-0.5267	-0.0565
1675	13.5	13.5	0.5395	0	0.0938	0.6333	0.512	0	-0.1735	0.3385
1676	13.7	13.5	0.5388	0	0.0961	0.6349	0.4773	0	-0.1633	0.314
1677	14	13.4	0.5395	0	0.0943	0.6338	0.2734	0	0.0041	0.2776
1678	14.2	13.4	0.5363	0	0.0928	0.6291	0.2319	0	0.5132	0.7451
1679	14.4	13.4	0.5344	0	0.0937	0.6281	0.201	0	0.5392	0.7402
1680	14.1	13.5	0.5331	0	0.0947	0.6279	0.157	0	0.5451	0.702
1681	13.7	13.5	0.5322	0	0.0949	0.6271	0.1265	0	0.5549	0.6814
1682	13.7	13.5	0.5319	0	0.0948	0.6268	0.1089	0	0.5499	0.6589
1683	13.6	13.5	0.532	0	0.0943	0.6262	0.1036	0	0.5731	0.6767
1684	13.2	13.5	0.5302	0	0.0965	0.6268	0.0945	0	0.5817	0.6762
1685	12.8	13.5	0.5292	0	0.0988	0.628	0.1009	0	0.5564	0.6573
1686	12.7	13.5	0.5298	0	0.0991	0.6289	0.0923	0	0.5044	0.5966
1687	13	13.4	0.5308	0	0.0992	0.6299	0.0747	0	0.4282	0.5029
1688	13.2	13.3	0.5308	0	0.099	0.6298	0.0633	0	0.3773	0.4406
1689	13.4	13.3	0.5299	0	0.0988	0.6287	0.0756	0	0.2938	0.3694
1690	13.4	13.2	0.529	0	0.0986	0.6275	0.0896	0	0.2044	0.294
1691	12.8	13.1	0.5292	0	0.0959	0.6251	0.0983	0	0.1504	0.2487
1692	12.9	13.1	0.5292	0	0.0947	0.6239	0.113	0	0.1047	0.2177
1693	13.7	13	0.5287	0	0.095	0.6237	0.1299	0	0.0839	0.2138

1694	13.2	13	0.5275	0	0.0937	0.6212	0.1355	0	0.0663	0.2018
1695	13.5	13	0.5266	0	0.0936	0.6202	0.1408	0	0.0822	0.223
1696	13.2	13	0.5263	0	0.0946	0.6209	0.1574	0	0.0039	0.1613
1697	12.8	13	0.5261	0	0.0954	0.6215	0.1659	0	-0.0128	0.1531
1698	12.9	13	0.5248	0	0.0961	0.6209	0.158	0	0.014	0.172
1699	12.9	12.9	0.5225	0	0.0984	0.6209	0.145	0	0.0059	0.1509
1700	12.6	12.8	0.5222	0	0.1002	0.6224	0.1396	0	-0.003	0.1366
1701	12.3	12.8	0.5207	0	0.0993	0.62	0.1379	0	-0.0028	0.1352
1702	12.3	12.8	0.5205	0	0.099	0.6195	0.1422	0	-0.014	0.1282
1703	13.1	12.8	0.5216	0	0.0972	0.6188	0.1633	0	-0.0357	0.1276
1704	12.9	12.8	0.5234	0	0.0959	0.6193	0.1869	0	-0.02	0.1669
1705	12.3	12.7	0.5251	0	0.0954	0.6206	0.2058	0	-0.0285	0.1773
1706	13.1	12.6	0.5258	0	0.0937	0.6195	0.2097	0	-0.053	0.1567
1707	12.9	12.6	0.5263	0	0.0937	0.62	0.2073	0	-0.0665	0.1408
1708	12.2	12.6	0.5272	0	0.0939	0.6211	0.2102	0	-0.084	0.1262
1709	12.1	12.5	0.5272	0	0.0946	0.6218	0.2259	0	-0.1296	0.0963
1710	12.1	12.6	0.5268	0	0.0961	0.6229	0.2419	0	-0.1998	0.0421
1711	12.6	12.6	0.526	0	0.0998	0.6258	0.24	0	-0.2368	0.0032
1712	13.2	12.6	0.5256	0	0.1051	0.6307	0.2385	0	-0.2488	-0.0103
1713	13	12.5	0.5265	0	0.1083	0.6348	0.226	0	-0.1888	0.0372
1714	13	12.5	0.529	0	0.1052	0.6342	0.1937	0	-0.1655	0.0283
1715	11.7	12.6	0.5303	0	0.1013	0.6316	0.1591	0	-0.1416	0.0175
1716	11.8	12.6	0.5318	0	0.1	0.6317	0.1317	0	-0.1222	0.0094
1717	12.2	12.6	0.5335	0	0.0995	0.633	0.1097	0	-0.1059	0.0038
1718	12.7	12.7	0.5357	0	0.0981	0.6337	0.0849	0	-0.0853	-0.0004
1719	12.9	12.7	0.5376	0	0.0956	0.6331	0.0765	0	-0.0666	0.0099
1720	12.7	12.7	0.5385	0	0.0935	0.632	0.071	0	-0.0612	0.0098
1721	12.2	12.8	0.5393	0	0.0936	0.6328	0.0826	0	-0.0538	0.0287
1722	12.5	12.7	0.5403	0	0.0907	0.631	0.0914	0	-0.0829	0.0085
1723	12.8	12.7	0.5402	0	0.0925	0.6327	0.0916	0	-0.0882	0.0034
1724	13.3	12.7	0.5403	0	0.0927	0.633	0.0698	0	-0.0714	-0.0016
1725	13.6	12.7	0.5397	0	0.0946	0.6343	0.0348	0	-0.0542	-0.0195
1726	13.3	12.7	0.5389	0	0.0961	0.635	0.0094	0	-0.045	-0.0356
1727	12.9	12.8	0.5394	0	0.0964	0.6358	-0.0024	0	0.0081	0.0057
1728	12.9	12.8	0.541	0	0.0958	0.6368	0.0063	0	0.0354	0.0417
1729	13	12.8	0.5421	0	0.0934	0.6354	-0.0244	0	0.0193	-0.0051
1730	12.7	12.8	0.5425	0	0.0903	0.6328	-0.0377	0	0.0456	0.0079

1731	12.6	12.9	0.5429	0	0.0898	0.6326	-0.0451	0	0.0579	0.0128
1732	12.5	13	0.5426	0	0.0874	0.63	-0.0571	0	0.038	-0.0191
1733	12.3	13	0.5434	0	0.0863	0.6297	-0.0663	0	0.0283	-0.038
1734	12.2	13.1	0.5438	0	0.0863	0.6302	-0.0685	0	0.0398	-0.0287
1735	12.6	13.1	0.5435	0	0.0862	0.6297	-0.0867	0	0.0431	-0.0436
1736	12.8	13.1	0.5432	0	0.0855	0.6287	-0.0908	0	0.039	-0.0518
1737	12.6	13.1	0.5432	0	0.0855	0.6287	-0.0784	0	0.0545	-0.0239
1738	13.6	13.1	0.541	0	0.0876	0.6286	-0.0655	0	0.0619	-0.0036
1739	13	13.1	0.5397	0	0.091	0.6306	-0.066	0	0.0609	-0.0051
1740	13.9	13.2	0.54	0	0.0923	0.6323	-0.0779	0	0.0363	-0.0416
1741	13.8	13.2	0.5399	0	0.0941	0.634	-0.0844	0	0.0047	-0.0797
1742	13.8	13.1	0.5391	0	0.0932	0.6323	-0.0723	0	-0.0138	-0.086
1743	14	13.2	0.5386	0	0.0894	0.628	-0.063	0	-0.0717	-0.1347
1744	13.6	13.2	0.539	0	0.0881	0.627	-0.0682	0	-0.0566	-0.1248
1745	13.7	13.3	0.538	0	0.0917	0.6297	-0.0798	0	-0.0783	-0.1581
1746	13.2	13.4	0.5385	0	0.0935	0.6321	-0.0954	0	-0.0757	-0.1711
1747	13.5	13.4	0.5389	0	0.0913	0.6303	-0.1214	0	-0.0529	-0.1743
1748	13.4	13.4	0.5395	0	0.0914	0.6309	-0.1452	0	-0.0465	-0.1917
1749	13	13.4	0.5403	0	0.0911	0.6314	-0.1681	0	-0.0594	-0.2275
1750	12.5	13.4	0.5407	0	0.0903	0.631	-0.2007	0	-0.0552	-0.2559
1751	12.1	13.3	0.5404	0	0.0905	0.6309	-0.2178	0	-0.0527	-0.2706
1752	12.8	13.3	0.5404	0	0.09	0.6304	-0.2356	0	-0.0625	-0.2981
1753	13.6	13.3	0.5406	0	0.0869	0.6275	-0.2397	0	-0.0656	-0.3053
1754	14.2	13.2	0.539	0	0.0879	0.6269	-0.2315	0	-0.0848	-0.3163
1755	14	13.2	0.5384	0	0.0912	0.6296	-0.2147	0	-0.1	-0.3147
1756	13.5	13.2	0.5375	0	0.0918	0.6293	-0.1986	0	-0.1056	-0.3041
1757	13	13.2	0.5365	0	0.0917	0.6283	-0.1935	0	-0.1251	-0.3186
1758	13.3	13.3	0.5356	0	0.093	0.6286	-0.1902	0	-0.1263	-0.3165
1759	13.7	13.3	0.5346	0	0.095	0.6296	-0.183	0	-0.1259	-0.3088
1760	12.8	13.3	0.534	0	0.097	0.631	-0.1844	0	-0.1191	-0.3036
1761	13.2	13.3	0.5331	0	0.0988	0.6319	-0.1917	0	-0.1036	-0.2954
1762	13	13.4	0.5332	0	0.0962	0.6294	-0.2024	0	-0.0636	-0.266
1763	12.9	13.4	0.5344	0	0.0954	0.6298	-0.2094	0	-0.0042	-0.2136
1764	13.1	13.3	0.5353	0	0.0938	0.6292	-0.2008	0	0.0322	-0.1686
1765	13.8	13.3	0.5364	0	0.0926	0.6291	-0.1743	0	-0.003	-0.1773
1766	14	13.3	0.5379	0	0.0918	0.6297	-0.1608	0	-0.049	-0.2098
1767	13.5	13.3	0.5389	0	0.0907	0.6296	-0.1457	0	-0.0652	-0.2109

1768	13.2	13.3	0.539	0	0.09	0.629	-0.1271	0	-0.0716	-0.1987
1769	12.9	13.2	0.5385	0	0.0926	0.631	-0.1017	0	-0.09	-0.1917
1770	13.2	13.2	0.5374	0	0.0941	0.6315	-0.0795	0	-0.122	-0.2014
1771	13.6	13.2	0.5369	0	0.0956	0.6326	-0.069	0	-0.1496	-0.2187
1772	13.6	13.2	0.5368	0	0.0973	0.6341	-0.0599	0	-0.1505	-0.2104
1773	13.4	13.2	0.5371	0	0.0983	0.6354	-0.0481	0	-0.1889	-0.237
1774	13.1	13.2	0.5379	0	0.0984	0.6363	-0.0493	0	-0.1681	-0.2173
1775	13	13.1	0.5385	0	0.0983	0.6368	-0.0492	0	-0.1681	-0.2173
1776	13.3	13.1	0.5391	0	0.0952	0.6343	-0.0571	0	-0.1453	-0.2024
1777	12.7	13.1	0.5389	0	0.0908	0.6296	-0.0687	0	-0.1269	-0.1956
1778	13.1	13.1	0.5387	0	0.0909	0.6296	-0.0635	0	-0.1235	-0.187
1779	12.9	13.1	0.5382	0	0.0891	0.6273	-0.0414	0	-0.1339	-0.1753
1780	12.5	13.1	0.5377	0	0.089	0.6266	-0.0274	0	-0.1704	-0.1978
1781	12.5	13.1	0.5379	0	0.0911	0.629	-0.0215	0	-0.2166	-0.2381
1782	12.9	13.1	0.5386	0	0.092	0.6306	-0.0167	0	-0.2275	-0.2442
1783	12.9	13.1	0.5388	0	0.0903	0.6291	-0.0209	0	-0.265	-0.286
1784	12.6	13.1	0.5389	0	0.0922	0.6311	-0.0084	0	-0.2865	-0.2949
1785	13.4	13.2	0.5383	0	0.0949	0.6332	-0.0025	0	-0.2898	-0.2923
1786	13.3	13.2	0.5377	0	0.0936	0.6313	-0.0078	0	-0.2966	-0.3045
1787	13.5	13.3	0.5373	0	0.093	0.6303	-0.0129	0	-0.3116	-0.3245
1788	13.6	13.4	0.5375	0	0.0929	0.6304	-0.0128	0	-0.317	-0.3297
1789	13.4	13.4	0.5377	0	0.0952	0.6329	-0.0492	0	-0.2872	-0.3365
1790	13.2	13.4	0.5374	0	0.0981	0.6355	-0.0713	0	-0.2375	-0.3088
1791	13.5	13.4	0.5364	0	0.0973	0.6337	-0.0675	0	-0.2187	-0.2862
1792	12.9	13.5	0.5355	0	0.1019	0.6374	-0.0702	0	-0.1926	-0.2628
1793	14.2	13.5	0.5355	0	0.1007	0.6362	-0.0844	0	-0.2114	-0.2959
1794	14.4	13.5	0.5355	0	0.1015	0.637	-0.095	0	-0.282	-0.3771
1795	14	13.6	0.5361	0	0.1012	0.6373	-0.0903	0	-0.3106	-0.4009
1796	14	13.6	0.5384	0	0.0999	0.6383	-0.1092	0	-0.2496	-0.3588
1797	14.2	13.6	0.5406	0	0.1001	0.6407	-0.1016	0	-0.2208	-0.3225
1798	13.7	13.4	0.5416	0	0.1021	0.6437	-0.0963	0	-0.2662	-0.3626
1799	12.7	12.9	0.5425	0	0.1039	0.6464	-0.0869	0	-0.2703	-0.3572
1800	12.4	12.4	0.544	0	0.1055	0.6495	-0.0732	0	-0.2816	-0.3549