

SI Dataset 3-Carbon and Hydrogen Fractionation Factors for Thermodynamic Equilibrium

Temp	eD-C2-C1	eD-C3-C1	eD-C3-C2	eD-C5-C3	eD-C4-C2	e13C-C2-C1	e13C-C3-C1	e13C-C3-C2	e13C-C4-C1	e13C-C4-C2	e13C-CO2-C1	e13C-CO2-C2	e13C-C2-C4i	e13C-C3-C5i
0	109.7	128.9	17.3	22.8	31.5	19.2	26.4	7.1	29.8	10.4	77.7	4.1	-10.9	-5.0
1	108.8	127.9	17.2	22.6	31.3	19.0	26.2	7.0	29.5	10.3	77.3	4.1	-10.8	-4.9
2	108.0	126.9	17.0	22.5	31.0	18.9	26.0	7.0	29.3	10.2	76.9	4.1	-10.7	-4.9
3	107.1	125.8	16.9	22.3	30.8	18.8	25.8	6.9	29.1	10.2	76.4	4.1	-10.6	-4.8
4	106.3	124.8	16.7	22.2	30.5	18.6	25.7	6.9	28.9	10.1	76.0	4.1	-10.5	-4.8
5	105.5	123.9	16.6	22.0	30.3	18.5	25.5	6.8	28.7	10.0	75.6	4.1	-10.5	-4.8
6	104.7	122.9	16.4	21.8	30.0	18.4	25.3	6.8	28.5	9.9	75.2	4.1	-10.4	-4.7
7	103.9	121.9	16.3	21.7	29.8	18.3	25.1	6.7	28.3	9.9	74.8	4.1	-10.3	-4.7
8	103.1	120.9	16.1	21.5	29.6	18.1	25.0	6.7	28.1	9.8	74.4	4.1	-10.2	-4.7
9	102.4	120.0	16.0	21.4	29.3	18.0	24.8	6.6	27.9	9.7	74.0	4.1	-10.2	-4.6
10	101.6	119.1	15.9	21.2	29.1	17.9	24.6	6.6	27.7	9.7	73.6	4.1	-10.1	-4.6
11	100.8	118.1	15.7	21.1	28.8	17.8	24.4	6.5	27.5	9.6	73.2	4.2	-10.0	-4.5
12	100.1	117.2	15.6	20.9	28.6	17.7	24.3	6.5	27.4	9.5	72.8	4.2	-9.9	-4.5
13	99.3	116.3	15.4	20.8	28.4	17.5	24.1	6.5	27.2	9.5	72.4	4.2	-9.9	-4.5
14	98.6	115.4	15.3	20.7	28.2	17.4	23.9	6.4	27.0	9.4	72.0	4.2	-9.8	-4.4
15	97.8	114.5	15.2	20.5	27.9	17.3	23.8	6.4	26.8	9.3	71.6	4.2	-9.7	-4.4
16	97.1	113.6	15.0	20.4	27.7	17.2	23.6	6.3	26.6	9.3	71.2	4.2	-9.7	-4.4
17	96.4	112.7	14.9	20.2	27.5	17.1	23.5	6.3	26.4	9.2	70.9	4.2	-9.6	-4.3
18	95.7	111.9	14.8	20.1	27.3	17.0	23.3	6.2	26.2	9.1	70.5	4.2	-9.5	-4.3
19	95.0	111.0	14.7	20.0	27.1	16.8	23.1	6.2	26.1	9.1	70.1	4.2	-9.5	-4.3
20	94.3	110.2	14.5	19.8	26.8	16.7	23.0	6.1	25.9	9.0	69.8	4.2	-9.4	-4.2
21	93.6	109.3	14.4	19.7	26.6	16.6	22.8	6.1	25.7	8.9	69.4	4.2	-9.3	-4.2
22	92.9	108.5	14.3	19.6	26.4	16.5	22.7	6.1	25.5	8.9	69.0	4.2	-9.3	-4.2
23	92.2	107.7	14.1	19.4	26.2	16.4	22.5	6.0	25.4	8.8	68.7	4.2	-9.2	-4.1
24	91.5	106.9	14.0	19.3	26.0	16.3	22.4	6.0	25.2	8.7	68.3	4.2	-9.1	-4.1
25	90.9	106.0	13.9	19.2	25.8	16.2	22.2	5.9	25.0	8.7	68.0	4.2	-9.1	-4.1
26	90.2	105.2	13.8	19.0	25.6	16.1	22.1	5.9	24.8	8.6	67.6	4.2	-9.0	-4.0
27	89.6	104.5	13.7	18.9	25.4	16.0	21.9	5.8	24.7	8.6	67.3	4.3	-8.9	-4.0
28	88.9	103.7	13.5	18.8	25.2	15.9	21.8	5.8	24.5	8.5	66.9	4.3	-8.9	-4.0
29	88.3	102.9	13.4	18.6	25.0	15.8	21.6	5.8	24.3	8.4	66.6	4.3	-8.8	-4.0
30	87.6	102.1	13.3	18.5	24.8	15.7	21.5	5.7	24.2	8.4	66.3	4.3	-8.7	-3.9
31	87.0	101.4	13.2	18.4	24.6	15.6	21.3	5.7	24.0	8.3	65.9	4.3	-8.7	-3.9
32	86.4	100.6	13.1	18.3	24.4	15.5	21.2	5.6	23.9	8.3	65.6	4.3	-8.6	-3.9
33	85.8	99.8	13.0	18.1	24.2	15.4	21.0	5.6	23.7	8.2	65.3	4.3	-8.6	-3.8
34	85.2	99.1	12.9	18.0	24.0	15.3	20.9	5.6	23.5	8.2	64.9	4.3	-8.5	-3.8
35	84.6	98.4	12.7	17.9	23.8	15.2	20.8	5.5	23.4	8.1	64.6	4.3	-8.4	-3.8
36	84.0	97.6	12.6	17.8	23.7	15.1	20.6	5.5	23.2	8.1	64.3	4.3	-8.4	-3.7
37	83.4	96.9	12.5	17.7	23.5	15.0	20.5	5.5	23.1	8.0	64.0	4.3	-8.3	-3.7
38	82.8	96.2	12.4	17.5	23.3	14.9	20.4	5.4	22.9	7.9	63.6	4.3	-8.3	-3.7
39	82.2	95.5	12.3	17.4	23.1	14.8	20.2	5.4	22.8	7.9	63.3	4.3	-8.2	-3.7
40	81.6	94.8	12.2	17.3	22.9	14.7	20.1	5.3	22.6	7.8	63.0	4.3	-8.1	-3.6
41	81.0	94.1	12.1	17.2	22.8	14.6	20.0	5.3	22.5	7.8	62.7	4.3	-8.1	-3.6
42	80.5	93.4	12.0	17.1	22.6	14.5	19.8	5.3	22.3	7.7	62.4	4.4	-8.0	-3.6

43	79.9	92.7	11.9	17.0	22.4	14.4	19.7	5.2	22.2	7.7	62.1	4.4	-8.0	-3.6
44	79.3	92.1	11.8	16.9	22.2	14.3	19.6	5.2	22.0	7.6	61.8	4.4	-7.9	-3.5
45	78.8	91.4	11.7	16.8	22.1	14.2	19.4	5.2	21.9	7.6	61.5	4.4	-7.9	-3.5
46	78.2	90.7	11.6	16.6	21.9	14.1	19.3	5.1	21.7	7.5	61.2	4.4	-7.8	-3.5
47	77.7	90.1	11.5	16.5	21.7	14.0	19.2	5.1	21.6	7.5	60.9	4.4	-7.8	-3.4
48	77.2	89.4	11.4	16.4	21.6	13.9	19.1	5.1	21.5	7.4	60.6	4.4	-7.7	-3.4
49	76.6	88.8	11.3	16.3	21.4	13.8	18.9	5.0	21.3	7.4	60.3	4.4	-7.7	-3.4
50	76.1	88.1	11.2	16.2	21.2	13.8	18.8	5.0	21.2	7.3	60.0	4.4	-7.6	-3.4
51	75.6	87.5	11.1	16.1	21.1	13.7	18.7	5.0	21.0	7.3	59.7	4.4	-7.6	-3.3
52	75.1	86.9	11.0	16.0	20.9	13.6	18.6	4.9	20.9	7.2	59.5	4.4	-7.5	-3.3
53	74.5	86.3	10.9	15.9	20.7	13.5	18.4	4.9	20.8	7.2	59.2	4.4	-7.5	-3.3
54	74.0	85.6	10.8	15.8	20.6	13.4	18.3	4.9	20.6	7.1	58.9	4.4	-7.4	-3.3
55	73.5	85.0	10.7	15.7	20.4	13.3	18.2	4.8	20.5	7.1	58.6	4.4	-7.4	-3.2
56	73.0	84.4	10.6	15.6	20.3	13.2	18.1	4.8	20.4	7.0	58.3	4.5	-7.3	-3.2
57	72.5	83.8	10.5	15.5	20.1	13.2	18.0	4.8	20.2	7.0	58.1	4.5	-7.3	-3.2
58	72.0	83.2	10.4	15.4	20.0	13.1	17.9	4.7	20.1	6.9	57.8	4.5	-7.2	-3.2
59	71.5	82.6	10.4	15.3	19.8	13.0	17.7	4.7	20.0	6.9	57.5	4.5	-7.2	-3.2
60	71.1	82.1	10.3	15.2	19.7	12.9	17.6	4.7	19.8	6.9	57.2	4.5	-7.1	-3.1
61	70.6	81.5	10.2	15.1	19.5	12.8	17.5	4.6	19.7	6.8	57.0	4.5	-7.1	-3.1
62	70.1	80.9	10.1	15.0	19.4	12.7	17.4	4.6	19.6	6.8	56.7	4.5	-7.0	-3.1
63	69.6	80.3	10.0	14.9	19.2	12.7	17.3	4.6	19.5	6.7	56.5	4.5	-7.0	-3.1
64	69.2	79.8	9.9	14.8	19.1	12.6	17.2	4.5	19.3	6.7	56.2	4.5	-6.9	-3.0
65	68.7	79.2	9.8	14.7	18.9	12.5	17.1	4.5	19.2	6.6	55.9	4.5	-6.9	-3.0
66	68.2	78.7	9.8	14.6	18.8	12.4	17.0	4.5	19.1	6.6	55.7	4.5	-6.8	-3.0
67	67.8	78.1	9.7	14.5	18.6	12.3	16.9	4.5	19.0	6.5	55.4	4.5	-6.8	-3.0
68	67.3	77.6	9.6	14.4	18.5	12.3	16.8	4.4	18.8	6.5	55.2	4.5	-6.7	-3.0
69	66.9	77.0	9.5	14.3	18.4	12.2	16.6	4.4	18.7	6.5	54.9	4.6	-6.7	-2.9
70	66.4	76.5	9.4	14.3	18.2	12.1	16.5	4.4	18.6	6.4	54.7	4.6	-6.6	-2.9
71	66.0	76.0	9.3	14.2	18.1	12.0	16.4	4.3	18.5	6.4	54.4	4.6	-6.6	-2.9
72	65.6	75.4	9.3	14.1	18.0	12.0	16.3	4.3	18.4	6.3	54.2	4.6	-6.6	-2.9
73	65.1	74.9	9.2	14.0	17.8	11.9	16.2	4.3	18.3	6.3	53.9	4.6	-6.5	-2.8
74	64.7	74.4	9.1	13.9	17.7	11.8	16.1	4.3	18.1	6.3	53.7	4.6	-6.5	-2.8
75	64.3	73.9	9.0	13.8	17.6	11.7	16.0	4.2	18.0	6.2	53.4	4.6	-6.4	-2.8
76	63.9	73.4	9.0	13.7	17.4	11.7	15.9	4.2	17.9	6.2	53.2	4.6	-6.4	-2.8
77	63.4	72.9	8.9	13.6	17.3	11.6	15.8	4.2	17.8	6.1	53.0	4.6	-6.3	-2.8
78	63.0	72.4	8.8	13.5	17.2	11.5	15.7	4.1	17.7	6.1	52.7	4.6	-6.3	-2.7
79	62.6	71.9	8.7	13.5	17.0	11.5	15.6	4.1	17.6	6.1	52.5	4.6	-6.3	-2.7
80	62.2	71.4	8.7	13.4	16.9	11.4	15.5	4.1	17.5	6.0	52.3	4.6	-6.2	-2.7
81	61.8	70.9	8.6	13.3	16.8	11.3	15.4	4.1	17.4	6.0	52.0	4.6	-6.2	-2.7
82	61.4	70.4	8.5	13.2	16.7	11.2	15.3	4.0	17.3	5.9	51.8	4.7	-6.1	-2.7
83	61.0	70.0	8.4	13.1	16.5	11.2	15.2	4.0	17.1	5.9	51.6	4.7	-6.1	-2.6
84	60.6	69.5	8.4	13.1	16.4	11.1	15.1	4.0	17.0	5.9	51.3	4.7	-6.1	-2.6
85	60.2	69.0	8.3	13.0	16.3	11.0	15.1	4.0	16.9	5.8	51.1	4.7	-6.0	-2.6
86	59.8	68.5	8.2	12.9	16.2	11.0	15.0	3.9	16.8	5.8	50.9	4.7	-6.0	-2.6
87	59.5	68.1	8.1	12.8	16.1	10.9	14.9	3.9	16.7	5.7	50.7	4.7	-5.9	-2.6
88	59.1	67.6	8.1	12.7	15.9	10.8	14.8	3.9	16.6	5.7	50.5	4.7	-5.9	-2.6

89	58.7	67.2	8.0	12.7	15.8	10.8	14.7	3.9	16.5	5.7	50.2	4.7	-5.9	-2.5
90	58.3	66.7	7.9	12.6	15.7	10.7	14.6	3.8	16.4	5.6	50.0	4.7	-5.8	-2.5
91	57.9	66.3	7.9	12.5	15.6	10.6	14.5	3.8	16.3	5.6	49.8	4.7	-5.8	-2.5
92	57.6	65.8	7.8	12.4	15.5	10.6	14.4	3.8	16.2	5.6	49.6	4.7	-5.8	-2.5
93	57.2	65.4	7.7	12.3	15.4	10.5	14.3	3.8	16.1	5.5	49.4	4.7	-5.7	-2.5
94	56.8	65.0	7.7	12.3	15.2	10.5	14.2	3.7	16.0	5.5	49.2	4.8	-5.7	-2.4
95	56.5	64.5	7.6	12.2	15.1	10.4	14.1	3.7	15.9	5.5	49.0	4.8	-5.6	-2.4
96	56.1	64.1	7.5	12.1	15.0	10.3	14.1	3.7	15.8	5.4	48.7	4.8	-5.6	-2.4
97	55.8	63.7	7.5	12.0	14.9	10.3	14.0	3.7	15.7	5.4	48.5	4.8	-5.6	-2.4
98	55.4	63.3	7.4	12.0	14.8	10.2	13.9	3.7	15.6	5.4	48.3	4.8	-5.5	-2.4
99	55.1	62.8	7.4	11.9	14.7	10.1	13.8	3.6	15.5	5.3	48.1	4.8	-5.5	-2.4
100	54.7	62.4	7.3	11.8	14.6	10.1	13.7	3.6	15.4	5.3	47.9	4.8	-5.5	-2.3
101	54.4	62.0	7.2	11.8	14.5	10.0	13.6	3.6	15.3	5.3	47.7	4.8	-5.4	-2.3
102	54.0	61.6	7.2	11.7	14.4	10.0	13.6	3.6	15.2	5.2	47.5	4.8	-5.4	-2.3
103	53.7	61.2	7.1	11.6	14.3	9.9	13.5	3.5	15.1	5.2	47.3	4.8	-5.4	-2.3
104	53.4	60.8	7.0	11.5	14.2	9.8	13.4	3.5	15.1	5.2	47.1	4.8	-5.3	-2.3
105	53.0	60.4	7.0	11.5	14.1	9.8	13.3	3.5	15.0	5.1	46.9	4.9	-5.3	-2.3
106	52.7	60.0	6.9	11.4	14.0	9.7	13.2	3.5	14.9	5.1	46.7	4.9	-5.3	-2.2
107	52.4	59.6	6.9	11.3	13.9	9.7	13.1	3.5	14.8	5.1	46.5	4.9	-5.2	-2.2
108	52.1	59.2	6.8	11.3	13.7	9.6	13.1	3.4	14.7	5.0	46.3	4.9	-5.2	-2.2
109	51.7	58.8	6.8	11.2	13.6	9.5	13.0	3.4	14.6	5.0	46.2	4.9	-5.2	-2.2
110	51.4	58.5	6.7	11.1	13.5	9.5	12.9	3.4	14.5	5.0	46.0	4.9	-5.1	-2.2
111	51.1	58.1	6.6	11.1	13.5	9.4	12.8	3.4	14.4	4.9	45.8	4.9	-5.1	-2.2
112	50.8	57.7	6.6	11.0	13.4	9.4	12.8	3.3	14.3	4.9	45.6	4.9	-5.1	-2.2
113	50.5	57.3	6.5	10.9	13.3	9.3	12.7	3.3	14.3	4.9	45.4	4.9	-5.0	-2.1
114	50.2	57.0	6.5	10.9	13.2	9.3	12.6	3.3	14.2	4.9	45.2	4.9	-5.0	-2.1
115	49.9	56.6	6.4	10.8	13.1	9.2	12.5	3.3	14.1	4.8	45.0	4.9	-5.0	-2.1
116	49.6	56.2	6.4	10.7	13.0	9.2	12.5	3.3	14.0	4.8	44.8	5.0	-4.9	-2.1
117	49.3	55.9	6.3	10.7	12.9	9.1	12.4	3.2	13.9	4.8	44.7	5.0	-4.9	-2.1
118	49.0	55.5	6.2	10.6	12.8	9.1	12.3	3.2	13.8	4.7	44.5	5.0	-4.9	-2.1
119	48.7	55.2	6.2	10.6	12.7	9.0	12.2	3.2	13.7	4.7	44.3	5.0	-4.9	-2.1
120	48.4	54.8	6.1	10.5	12.6	8.9	12.2	3.2	13.7	4.7	44.1	5.0	-4.8	-2.0
121	48.1	54.5	6.1	10.4	12.5	8.9	12.1	3.2	13.6	4.7	43.9	5.0	-4.8	-2.0
122	47.8	54.1	6.0	10.4	12.4	8.8	12.0	3.1	13.5	4.6	43.8	5.0	-4.8	-2.0
123	47.5	53.8	6.0	10.3	12.3	8.8	11.9	3.1	13.4	4.6	43.6	5.0	-4.7	-2.0
124	47.2	53.4	5.9	10.2	12.2	8.7	11.9	3.1	13.3	4.6	43.4	5.0	-4.7	-2.0
125	46.9	53.1	5.9	10.2	12.1	8.7	11.8	3.1	13.3	4.5	43.2	5.0	-4.7	-2.0
126	46.6	52.7	5.8	10.1	12.1	8.6	11.7	3.1	13.2	4.5	43.1	5.1	-4.6	-2.0
127	46.4	52.4	5.8	10.1	12.0	8.6	11.7	3.1	13.1	4.5	42.9	5.1	-4.6	-1.9
128	46.1	52.1	5.7	10.0	11.9	8.5	11.6	3.0	13.0	4.5	42.7	5.1	-4.6	-1.9
129	45.8	51.8	5.7	9.9	11.8	8.5	11.5	3.0	13.0	4.4	42.6	5.1	-4.6	-1.9
130	45.5	51.4	5.6	9.9	11.7	8.4	11.5	3.0	12.9	4.4	42.4	5.1	-4.5	-1.9
131	45.3	51.1	5.6	9.8	11.6	8.4	11.4	3.0	12.8	4.4	42.2	5.1	-4.5	-1.9
132	45.0	50.8	5.5	9.8	11.5	8.3	11.3	3.0	12.7	4.4	42.1	5.1	-4.5	-1.9
133	44.7	50.5	5.5	9.7	11.5	8.3	11.3	2.9	12.6	4.3	41.9	5.1	-4.5	-1.9
134	44.5	50.1	5.4	9.7	11.4	8.2	11.2	2.9	12.6	4.3	41.7	5.1	-4.4	-1.9

135	44.2	49.8	5.4	9.6	11.3	8.2	11.1	2.9	12.5	4.3	41.6	5.1	-4.4	-1.8
136	43.9	49.5	5.3	9.6	11.2	8.1	11.1	2.9	12.4	4.2	41.4	5.2	-4.4	-1.8
137	43.7	49.2	5.3	9.5	11.1	8.1	11.0	2.9	12.4	4.2	41.2	5.2	-4.3	-1.8
138	43.4	48.9	5.3	9.4	11.1	8.0	10.9	2.9	12.3	4.2	41.1	5.2	-4.3	-1.8
139	43.2	48.6	5.2	9.4	11.0	8.0	10.9	2.8	12.2	4.2	40.9	5.2	-4.3	-1.8
140	42.9	48.3	5.2	9.3	10.9	8.0	10.8	2.8	12.1	4.1	40.8	5.2	-4.3	-1.8
141	42.7	48.0	5.1	9.3	10.8	7.9	10.7	2.8	12.1	4.1	40.6	5.2	-4.2	-1.8
142	42.4	47.7	5.1	9.2	10.7	7.9	10.7	2.8	12.0	4.1	40.4	5.2	-4.2	-1.8
143	42.2	47.4	5.0	9.2	10.7	7.8	10.6	2.8	11.9	4.1	40.3	5.2	-4.2	-1.7
144	41.9	47.1	5.0	9.1	10.6	7.8	10.6	2.8	11.9	4.0	40.1	5.2	-4.2	-1.7
145	41.7	46.8	4.9	9.1	10.5	7.7	10.5	2.7	11.8	4.0	40.0	5.2	-4.1	-1.7
146	41.4	46.5	4.9	9.0	10.4	7.7	10.4	2.7	11.7	4.0	39.8	5.3	-4.1	-1.7
147	41.2	46.3	4.9	9.0	10.4	7.6	10.4	2.7	11.6	4.0	39.7	5.3	-4.1	-1.7
148	41.0	46.0	4.8	8.9	10.3	7.6	10.3	2.7	11.6	4.0	39.5	5.3	-4.1	-1.7
149	40.7	45.7	4.8	8.9	10.2	7.6	10.2	2.7	11.5	3.9	39.4	5.3	-4.0	-1.7
150	40.5	45.4	4.7	8.8	10.1	7.5	10.2	2.7	11.4	3.9	39.2	5.3	-4.0	-1.7
151	40.2	45.1	4.7	8.8	10.1	7.5	10.1	2.6	11.4	3.9	39.1	5.3	-4.0	-1.6
152	40.0	44.9	4.7	8.7	10.0	7.4	10.1	2.6	11.3	3.9	38.9	5.3	-4.0	-1.6
153	39.8	44.6	4.6	8.7	9.9	7.4	10.0	2.6	11.2	3.8	38.8	5.3	-3.9	-1.6
154	39.6	44.3	4.6	8.6	9.9	7.3	10.0	2.6	11.2	3.8	38.6	5.3	-3.9	-1.6
155	39.3	44.0	4.5	8.6	9.8	7.3	9.9	2.6	11.1	3.8	38.5	5.3	-3.9	-1.6
156	39.1	43.8	4.5	8.5	9.7	7.3	9.8	2.6	11.1	3.8	38.3	5.4	-3.9	-1.6
157	38.9	43.5	4.4	8.5	9.6	7.2	9.8	2.6	11.0	3.7	38.2	5.4	-3.9	-1.6
158	38.7	43.2	4.4	8.4	9.6	7.2	9.7	2.5	10.9	3.7	38.1	5.4	-3.8	-1.6
159	38.4	43.0	4.4	8.4	9.5	7.1	9.7	2.5	10.9	3.7	37.9	5.4	-3.8	-1.6
160	38.2	42.7	4.3	8.3	9.4	7.1	9.6	2.5	10.8	3.7	37.8	5.4	-3.8	-1.6
161	38.0	42.5	4.3	8.3	9.4	7.1	9.6	2.5	10.7	3.7	37.6	5.4	-3.8	-1.5
162	37.8	42.2	4.3	8.2	9.3	7.0	9.5	2.5	10.7	3.6	37.5	5.4	-3.7	-1.5
163	37.6	42.0	4.2	8.2	9.2	7.0	9.5	2.5	10.6	3.6	37.3	5.4	-3.7	-1.5
164	37.4	41.7	4.2	8.1	9.2	6.9	9.4	2.4	10.6	3.6	37.2	5.4	-3.7	-1.5
165	37.2	41.4	4.1	8.1	9.1	6.9	9.3	2.4	10.5	3.6	37.1	5.5	-3.7	-1.5
166	36.9	41.2	4.1	8.1	9.0	6.9	9.3	2.4	10.4	3.6	36.9	5.5	-3.7	-1.5
167	36.7	41.0	4.1	8.0	9.0	6.8	9.2	2.4	10.4	3.5	36.8	5.5	-3.6	-1.5
168	36.5	40.7	4.0	8.0	8.9	6.8	9.2	2.4	10.3	3.5	36.7	5.5	-3.6	-1.5
169	36.3	40.5	4.0	7.9	8.9	6.7	9.1	2.4	10.3	3.5	36.5	5.5	-3.6	-1.5
170	36.1	40.2	4.0	7.9	8.8	6.7	9.1	2.4	10.2	3.5	36.4	5.5	-3.6	-1.4
171	35.9	40.0	3.9	7.8	8.7	6.7	9.0	2.4	10.1	3.5	36.3	5.5	-3.5	-1.4
172	35.7	39.7	3.9	7.8	8.7	6.6	9.0	2.3	10.1	3.4	36.1	5.5	-3.5	-1.4
173	35.5	39.5	3.9	7.7	8.6	6.6	8.9	2.3	10.0	3.4	36.0	5.5	-3.5	-1.4
174	35.3	39.3	3.8	7.7	8.5	6.6	8.9	2.3	10.0	3.4	35.9	5.6	-3.5	-1.4
175	35.1	39.0	3.8	7.7	8.5	6.5	8.8	2.3	9.9	3.4	35.7	5.6	-3.5	-1.4
176	34.9	38.8	3.8	7.6	8.4	6.5	8.8	2.3	9.9	3.4	35.6	5.6	-3.4	-1.4
177	34.7	38.6	3.7	7.6	8.4	6.4	8.7	2.3	9.8	3.3	35.5	5.6	-3.4	-1.4
178	34.5	38.4	3.7	7.5	8.3	6.4	8.7	2.3	9.7	3.3	35.4	5.6	-3.4	-1.4
179	34.3	38.1	3.7	7.5	8.2	6.4	8.6	2.2	9.7	3.3	35.2	5.6	-3.4	-1.4
180	34.2	37.9	3.6	7.4	8.2	6.3	8.6	2.2	9.6	3.3	35.1	5.6	-3.4	-1.4

181	34.0	37.7	3.6	7.4	8.1	6.3	8.5	2.2	9.6	3.3	35.0	5.6	-3.3	-1.3
182	33.8	37.5	3.6	7.4	8.1	6.3	8.5	2.2	9.5	3.2	34.8	5.6	-3.3	-1.3
183	33.6	37.2	3.5	7.3	8.0	6.2	8.4	2.2	9.5	3.2	34.7	5.7	-3.3	-1.3
184	33.4	37.0	3.5	7.3	8.0	6.2	8.4	2.2	9.4	3.2	34.6	5.7	-3.3	-1.3
185	33.2	36.8	3.5	7.2	7.9	6.2	8.3	2.2	9.4	3.2	34.5	5.7	-3.3	-1.3
186	33.0	36.6	3.4	7.2	7.8	6.1	8.3	2.2	9.3	3.2	34.4	5.7	-3.2	-1.3
187	32.9	36.4	3.4	7.2	7.8	6.1	8.3	2.1	9.3	3.2	34.2	5.7	-3.2	-1.3
188	32.7	36.2	3.4	7.1	7.7	6.1	8.2	2.1	9.2	3.1	34.1	5.7	-3.2	-1.3
189	32.5	35.9	3.3	7.1	7.7	6.0	8.2	2.1	9.2	3.1	34.0	5.7	-3.2	-1.3
190	32.3	35.7	3.3	7.1	7.6	6.0	8.1	2.1	9.1	3.1	33.9	5.7	-3.2	-1.3
191	32.2	35.5	3.3	7.0	7.6	6.0	8.1	2.1	9.1	3.1	33.7	5.8	-3.2	-1.3
192	32.0	35.3	3.2	7.0	7.5	5.9	8.0	2.1	9.0	3.1	33.6	5.8	-3.1	-1.3
193	31.8	35.1	3.2	6.9	7.5	5.9	8.0	2.1	9.0	3.0	33.5	5.8	-3.1	-1.2
194	31.6	34.9	3.2	6.9	7.4	5.9	7.9	2.1	8.9	3.0	33.4	5.8	-3.1	-1.2
195	31.5	34.7	3.2	6.9	7.4	5.8	7.9	2.0	8.9	3.0	33.3	5.8	-3.1	-1.2
196	31.3	34.5	3.1	6.8	7.3	5.8	7.8	2.0	8.8	3.0	33.2	5.8	-3.1	-1.2
197	31.1	34.3	3.1	6.8	7.2	5.8	7.8	2.0	8.8	3.0	33.0	5.8	-3.0	-1.2
198	31.0	34.1	3.1	6.8	7.2	5.7	7.8	2.0	8.7	3.0	32.9	5.8	-3.0	-1.2
199	30.8	33.9	3.0	6.7	7.1	5.7	7.7	2.0	8.7	2.9	32.8	5.8	-3.0	-1.2
200	30.6	33.7	3.0	6.7	7.1	5.7	7.7	2.0	8.6	2.9	32.7	5.9	-3.0	-1.2
201	30.5	33.5	3.0	6.6	7.0	5.6	7.6	2.0	8.6	2.9	32.6	5.9	-3.0	-1.2
202	30.3	33.3	3.0	6.6	7.0	5.6	7.6	2.0	8.5	2.9	32.5	5.9	-3.0	-1.2
203	30.1	33.1	2.9	6.6	6.9	5.6	7.5	2.0	8.5	2.9	32.4	5.9	-2.9	-1.2
204	30.0	33.0	2.9	6.5	6.9	5.5	7.5	1.9	8.4	2.9	32.2	5.9	-2.9	-1.2
205	29.8	32.8	2.9	6.5	6.8	5.5	7.5	1.9	8.4	2.8	32.1	5.9	-2.9	-1.1
206	29.7	32.6	2.8	6.5	6.8	5.5	7.4	1.9	8.3	2.8	32.0	5.9	-2.9	-1.1
207	29.5	32.4	2.8	6.4	6.7	5.5	7.4	1.9	8.3	2.8	31.9	5.9	-2.9	-1.1
208	29.3	32.2	2.8	6.4	6.7	5.4	7.3	1.9	8.2	2.8	31.8	6.0	-2.9	-1.1
209	29.2	32.0	2.8	6.4	6.7	5.4	7.3	1.9	8.2	2.8	31.7	6.0	-2.8	-1.1
210	29.0	31.8	2.7	6.3	6.6	5.4	7.3	1.9	8.2	2.8	31.6	6.0	-2.8	-1.1
211	28.9	31.7	2.7	6.3	6.6	5.3	7.2	1.9	8.1	2.8	31.5	6.0	-2.8	-1.1
212	28.7	31.5	2.7	6.3	6.5	5.3	7.2	1.9	8.1	2.7	31.4	6.0	-2.8	-1.1
213	28.6	31.3	2.7	6.2	6.5	5.3	7.1	1.9	8.0	2.7	31.3	6.0	-2.8	-1.1
214	28.4	31.1	2.6	6.2	6.4	5.3	7.1	1.8	8.0	2.7	31.2	6.0	-2.8	-1.1
215	28.3	31.0	2.6	6.2	6.4	5.2	7.1	1.8	7.9	2.7	31.1	6.0	-2.8	-1.1
216	28.1	30.8	2.6	6.1	6.3	5.2	7.0	1.8	7.9	2.7	30.9	6.1	-2.7	-1.1
217	28.0	30.6	2.6	6.1	6.3	5.2	7.0	1.8	7.8	2.7	30.8	6.1	-2.7	-1.1
218	27.8	30.4	2.5	6.1	6.2	5.1	6.9	1.8	7.8	2.6	30.7	6.1	-2.7	-1.1
219	27.7	30.3	2.5	6.0	6.2	5.1	6.9	1.8	7.8	2.6	30.6	6.1	-2.7	-1.0
220	27.5	30.1	2.5	6.0	6.1	5.1	6.9	1.8	7.7	2.6	30.5	6.1	-2.7	-1.0
221	27.4	29.9	2.5	6.0	6.1	5.1	6.8	1.8	7.7	2.6	30.4	6.1	-2.7	-1.0
222	27.2	29.7	2.4	5.9	6.1	5.0	6.8	1.8	7.6	2.6	30.3	6.1	-2.6	-1.0
223	27.1	29.6	2.4	5.9	6.0	5.0	6.8	1.8	7.6	2.6	30.2	6.1	-2.6	-1.0
224	27.0	29.4	2.4	5.9	6.0	5.0	6.7	1.7	7.5	2.6	30.1	6.2	-2.6	-1.0
225	26.8	29.3	2.4	5.9	5.9	4.9	6.7	1.7	7.5	2.5	30.0	6.2	-2.6	-1.0
226	26.7	29.1	2.3	5.8	5.9	4.9	6.7	1.7	7.5	2.5	29.9	6.2	-2.6	-1.0

227	26.5	28.9	2.3	5.8	5.8	4.9	6.6	1.7	7.4	2.5	29.8	6.2	-2.6	-1.0
228	26.4	28.8	2.3	5.8	5.8	4.9	6.6	1.7	7.4	2.5	29.7	6.2	-2.6	-1.0
229	26.3	28.6	2.3	5.7	5.8	4.8	6.5	1.7	7.3	2.5	29.6	6.2	-2.5	-1.0
230	26.1	28.4	2.2	5.7	5.7	4.8	6.5	1.7	7.3	2.5	29.5	6.2	-2.5	-1.0
231	26.0	28.3	2.2	5.7	5.7	4.8	6.5	1.7	7.3	2.5	29.4	6.3	-2.5	-1.0
232	25.9	28.1	2.2	5.6	5.6	4.8	6.4	1.7	7.2	2.4	29.3	6.3	-2.5	-1.0
233	25.7	28.0	2.2	5.6	5.6	4.7	6.4	1.7	7.2	2.4	29.2	6.3	-2.5	-1.0
234	25.6	27.8	2.2	5.6	5.6	4.7	6.4	1.6	7.1	2.4	29.1	6.3	-2.5	-0.9
235	25.5	27.7	2.1	5.6	5.5	4.7	6.3	1.6	7.1	2.4	29.0	6.3	-2.5	-0.9
236	25.3	27.5	2.1	5.5	5.5	4.7	6.3	1.6	7.1	2.4	28.9	6.3	-2.4	-0.9
237	25.2	27.4	2.1	5.5	5.4	4.6	6.3	1.6	7.0	2.4	28.9	6.3	-2.4	-0.9
238	25.1	27.2	2.1	5.5	5.4	4.6	6.2	1.6	7.0	2.4	28.8	6.3	-2.4	-0.9
239	25.0	27.1	2.1	5.4	5.4	4.6	6.2	1.6	7.0	2.4	28.7	6.4	-2.4	-0.9
240	24.8	26.9	2.0	5.4	5.3	4.6	6.2	1.6	6.9	2.3	28.6	6.4	-2.4	-0.9
241	24.7	26.8	2.0	5.4	5.3	4.5	6.1	1.6	6.9	2.3	28.5	6.4	-2.4	-0.9
242	24.6	26.6	2.0	5.4	5.3	4.5	6.1	1.6	6.8	2.3	28.4	6.4	-2.4	-0.9
243	24.4	26.5	2.0	5.3	5.2	4.5	6.1	1.6	6.8	2.3	28.3	6.4	-2.4	-0.9
244	24.3	26.3	1.9	5.3	5.2	4.5	6.0	1.6	6.8	2.3	28.2	6.4	-2.3	-0.9
245	24.2	26.2	1.9	5.3	5.1	4.4	6.0	1.6	6.7	2.3	28.1	6.4	-2.3	-0.9
246	24.1	26.0	1.9	5.2	5.1	4.4	6.0	1.5	6.7	2.3	28.0	6.5	-2.3	-0.9
247	24.0	25.9	1.9	5.2	5.1	4.4	5.9	1.5	6.7	2.3	27.9	6.5	-2.3	-0.9
248	23.8	25.7	1.9	5.2	5.0	4.4	5.9	1.5	6.6	2.2	27.8	6.5	-2.3	-0.9
249	23.7	25.6	1.8	5.2	5.0	4.4	5.9	1.5	6.6	2.2	27.7	6.5	-2.3	-0.9
250	23.6	25.5	1.8	5.1	5.0	4.3	5.8	1.5	6.6	2.2	27.7	6.5	-2.3	-0.9
251	23.5	25.3	1.8	5.1	4.9	4.3	5.8	1.5	6.5	2.2	27.6	6.5	-2.3	-0.8
252	23.4	25.2	1.8	5.1	4.9	4.3	5.8	1.5	6.5	2.2	27.5	6.5	-2.2	-0.8
253	23.2	25.1	1.8	5.1	4.9	4.3	5.8	1.5	6.5	2.2	27.4	6.6	-2.2	-0.8
254	23.1	24.9	1.8	5.0	4.8	4.2	5.7	1.5	6.4	2.2	27.3	6.6	-2.2	-0.8
255	23.0	24.8	1.7	5.0	4.8	4.2	5.7	1.5	6.4	2.2	27.2	6.6	-2.2	-0.8
256	22.9	24.6	1.7	5.0	4.7	4.2	5.7	1.5	6.4	2.1	27.1	6.6	-2.2	-0.8
257	22.8	24.5	1.7	5.0	4.7	4.2	5.6	1.5	6.3	2.1	27.0	6.6	-2.2	-0.8
258	22.7	24.4	1.7	4.9	4.7	4.2	5.6	1.4	6.3	2.1	27.0	6.6	-2.2	-0.8
259	22.6	24.2	1.7	4.9	4.6	4.1	5.6	1.4	6.3	2.1	26.9	6.6	-2.2	-0.8
260	22.4	24.1	1.6	4.9	4.6	4.1	5.5	1.4	6.2	2.1	26.8	6.7	-2.1	-0.8
261	22.3	24.0	1.6	4.9	4.6	4.1	5.5	1.4	6.2	2.1	26.7	6.7	-2.1	-0.8
262	22.2	23.9	1.6	4.8	4.5	4.1	5.5	1.4	6.2	2.1	26.6	6.7	-2.1	-0.8
263	22.1	23.7	1.6	4.8	4.5	4.0	5.5	1.4	6.1	2.1	26.5	6.7	-2.1	-0.8
264	22.0	23.6	1.6	4.8	4.5	4.0	5.4	1.4	6.1	2.1	26.5	6.7	-2.1	-0.8
265	21.9	23.5	1.5	4.8	4.4	4.0	5.4	1.4	6.1	2.0	26.4	6.7	-2.1	-0.8
266	21.8	23.3	1.5	4.7	4.4	4.0	5.4	1.4	6.0	2.0	26.3	6.7	-2.1	-0.8
267	21.7	23.2	1.5	4.7	4.4	4.0	5.3	1.4	6.0	2.0	26.2	6.8	-2.1	-0.8
268	21.6	23.1	1.5	4.7	4.4	3.9	5.3	1.4	6.0	2.0	26.1	6.8	-2.1	-0.8
269	21.5	23.0	1.5	4.7	4.3	3.9	5.3	1.4	5.9	2.0	26.0	6.8	-2.0	-0.8
270	21.4	22.8	1.5	4.6	4.3	3.9	5.3	1.4	5.9	2.0	26.0	6.8	-2.0	-0.7
271	21.2	22.7	1.4	4.6	4.3	3.9	5.2	1.3	5.9	2.0	25.9	6.8	-2.0	-0.7
272	21.1	22.6	1.4	4.6	4.2	3.9	5.2	1.3	5.8	2.0	25.8	6.8	-2.0	-0.7

273	21.0	22.5	1.4	4.6	4.2	3.8	5.2	1.3	5.8	2.0	25.7	6.8	-2.0	-0.7
274	20.9	22.4	1.4	4.6	4.2	3.8	5.1	1.3	5.8	1.9	25.6	6.9	-2.0	-0.7
275	20.8	22.2	1.4	4.5	4.1	3.8	5.1	1.3	5.7	1.9	25.6	6.9	-2.0	-0.7
276	20.7	22.1	1.4	4.5	4.1	3.8	5.1	1.3	5.7	1.9	25.5	6.9	-2.0	-0.7
277	20.6	22.0	1.3	4.5	4.1	3.8	5.1	1.3	5.7	1.9	25.4	6.9	-2.0	-0.7
278	20.5	21.9	1.3	4.5	4.0	3.7	5.0	1.3	5.7	1.9	25.3	6.9	-1.9	-0.7
279	20.4	21.8	1.3	4.4	4.0	3.7	5.0	1.3	5.6	1.9	25.2	6.9	-1.9	-0.7
280	20.3	21.7	1.3	4.4	4.0	3.7	5.0	1.3	5.6	1.9	25.2	6.9	-1.9	-0.7
281	20.2	21.5	1.3	4.4	4.0	3.7	5.0	1.3	5.6	1.9	25.1	7.0	-1.9	-0.7
282	20.1	21.4	1.3	4.4	3.9	3.7	4.9	1.3	5.5	1.9	25.0	7.0	-1.9	-0.7
283	20.0	21.3	1.3	4.4	3.9	3.6	4.9	1.3	5.5	1.9	24.9	7.0	-1.9	-0.7
284	19.9	21.2	1.2	4.3	3.9	3.6	4.9	1.3	5.5	1.8	24.9	7.0	-1.9	-0.7
285	19.8	21.1	1.2	4.3	3.8	3.6	4.9	1.3	5.4	1.8	24.8	7.0	-1.9	-0.7
286	19.7	21.0	1.2	4.3	3.8	3.6	4.8	1.2	5.4	1.8	24.7	7.0	-1.9	-0.7
287	19.7	20.9	1.2	4.3	3.8	3.6	4.8	1.2	5.4	1.8	24.6	7.1	-1.9	-0.7
288	19.6	20.8	1.2	4.3	3.8	3.5	4.8	1.2	5.4	1.8	24.5	7.1	-1.8	-0.7
289	19.5	20.7	1.2	4.2	3.7	3.5	4.8	1.2	5.3	1.8	24.5	7.1	-1.8	-0.7
290	19.4	20.5	1.1	4.2	3.7	3.5	4.7	1.2	5.3	1.8	24.4	7.1	-1.8	-0.7
291	19.3	20.4	1.1	4.2	3.7	3.5	4.7	1.2	5.3	1.8	24.3	7.1	-1.8	-0.7
292	19.2	20.3	1.1	4.2	3.6	3.5	4.7	1.2	5.3	1.8	24.3	7.1	-1.8	-0.6
293	19.1	20.2	1.1	4.2	3.6	3.5	4.7	1.2	5.2	1.8	24.2	7.1	-1.8	-0.6
294	19.0	20.1	1.1	4.1	3.6	3.4	4.6	1.2	5.2	1.8	24.1	7.2	-1.8	-0.6
295	18.9	20.0	1.1	4.1	3.6	3.4	4.6	1.2	5.2	1.7	24.0	7.2	-1.8	-0.6
296	18.8	19.9	1.1	4.1	3.5	3.4	4.6	1.2	5.1	1.7	24.0	7.2	-1.8	-0.6
297	18.7	19.8	1.0	4.1	3.5	3.4	4.6	1.2	5.1	1.7	23.9	7.2	-1.8	-0.6
298	18.6	19.7	1.0	4.1	3.5	3.4	4.5	1.2	5.1	1.7	23.8	7.2	-1.8	-0.6
299	18.6	19.6	1.0	4.0	3.5	3.4	4.5	1.2	5.1	1.7	23.7	7.2	-1.7	-0.6
300	18.5	19.5	1.0	4.0	3.4	3.3	4.5	1.2	5.0	1.7	23.7	7.3	-1.7	-0.6
301	18.4	19.4	1.0	4.0	3.4	3.3	4.5	1.2	5.0	1.7	23.6	7.3	-1.7	-0.6
302	18.3	19.3	1.0	4.0	3.4	3.3	4.5	1.1	5.0	1.7	23.5	7.3	-1.7	-0.6
303	18.2	19.2	1.0	4.0	3.4	3.3	4.4	1.1	5.0	1.7	23.5	7.3	-1.7	-0.6
304	18.1	19.1	1.0	3.9	3.3	3.3	4.4	1.1	4.9	1.7	23.4	7.3	-1.7	-0.6
305	18.0	19.0	0.9	3.9	3.3	3.3	4.4	1.1	4.9	1.7	23.3	7.3	-1.7	-0.6
306	17.9	18.9	0.9	3.9	3.3	3.2	4.4	1.1	4.9	1.6	23.2	7.4	-1.7	-0.6
307	17.9	18.8	0.9	3.9	3.3	3.2	4.3	1.1	4.9	1.6	23.2	7.4	-1.7	-0.6
308	17.8	18.7	0.9	3.9	3.2	3.2	4.3	1.1	4.8	1.6	23.1	7.4	-1.7	-0.6
309	17.7	18.6	0.9	3.8	3.2	3.2	4.3	1.1	4.8	1.6	23.0	7.4	-1.7	-0.6
310	17.6	18.5	0.9	3.8	3.2	3.2	4.3	1.1	4.8	1.6	23.0	7.4	-1.6	-0.6
311	17.5	18.4	0.9	3.8	3.2	3.2	4.2	1.1	4.8	1.6	22.9	7.4	-1.6	-0.6
312	17.4	18.3	0.8	3.8	3.1	3.1	4.2	1.1	4.7	1.6	22.8	7.5	-1.6	-0.6
313	17.4	18.2	0.8	3.8	3.1	3.1	4.2	1.1	4.7	1.6	22.8	7.5	-1.6	-0.6
314	17.3	18.1	0.8	3.7	3.1	3.1	4.2	1.1	4.7	1.6	22.7	7.5	-1.6	-0.6
315	17.2	18.0	0.8	3.7	3.1	3.1	4.2	1.1	4.7	1.6	22.6	7.5	-1.6	-0.6
316	17.1	17.9	0.8	3.7	3.0	3.1	4.1	1.1	4.6	1.6	22.6	7.5	-1.6	-0.6
317	17.0	17.8	0.8	3.7	3.0	3.1	4.1	1.1	4.6	1.6	22.5	7.5	-1.6	-0.5
318	17.0	17.8	0.8	3.7	3.0	3.0	4.1	1.1	4.6	1.5	22.4	7.5	-1.6	-0.5

319	16.9	17.7	0.8	3.7	3.0	3.0	4.1	1.0	4.6	1.5	22.4	7.6	-1.6	-0.5
320	16.8	17.6	0.8	3.6	3.0	3.0	4.1	1.0	4.5	1.5	22.3	7.6	-1.6	-0.5
321	16.7	17.5	0.7	3.6	2.9	3.0	4.0	1.0	4.5	1.5	22.2	7.6	-1.6	-0.5
322	16.6	17.4	0.7	3.6	2.9	3.0	4.0	1.0	4.5	1.5	22.2	7.6	-1.5	-0.5
323	16.6	17.3	0.7	3.6	2.9	3.0	4.0	1.0	4.5	1.5	22.1	7.6	-1.5	-0.5
324	16.5	17.2	0.7	3.6	2.9	3.0	4.0	1.0	4.5	1.5	22.0	7.7	-1.5	-0.5
325	16.4	17.1	0.7	3.6	2.8	2.9	4.0	1.0	4.4	1.5	22.0	7.7	-1.5	-0.5
326	16.3	17.0	0.7	3.5	2.8	2.9	3.9	1.0	4.4	1.5	21.9	7.7	-1.5	-0.5
327	16.3	16.9	0.7	3.5	2.8	2.9	3.9	1.0	4.4	1.5	21.9	7.7	-1.5	-0.5
328	16.2	16.9	0.7	3.5	2.8	2.9	3.9	1.0	4.4	1.5	21.8	7.7	-1.5	-0.5
329	16.1	16.8	0.6	3.5	2.8	2.9	3.9	1.0	4.3	1.5	21.7	7.7	-1.5	-0.5
330	16.0	16.7	0.6	3.5	2.7	2.9	3.9	1.0	4.3	1.5	21.7	7.8	-1.5	-0.5
331	16.0	16.6	0.6	3.5	2.7	2.8	3.8	1.0	4.3	1.4	21.6	7.8	-1.5	-0.5
332	15.9	16.5	0.6	3.4	2.7	2.8	3.8	1.0	4.3	1.4	21.5	7.8	-1.5	-0.5
333	15.8	16.4	0.6	3.4	2.7	2.8	3.8	1.0	4.3	1.4	21.5	7.8	-1.5	-0.5
334	15.8	16.4	0.6	3.4	2.7	2.8	3.8	1.0	4.2	1.4	21.4	7.8	-1.5	-0.5
335	15.7	16.3	0.6	3.4	2.6	2.8	3.8	1.0	4.2	1.4	21.4	7.8	-1.4	-0.5
336	15.6	16.2	0.6	3.4	2.6	2.8	3.7	1.0	4.2	1.4	21.3	7.9	-1.4	-0.5
337	15.5	16.1	0.6	3.4	2.6	2.8	3.7	1.0	4.2	1.4	21.2	7.9	-1.4	-0.5
338	15.5	16.0	0.6	3.3	2.6	2.8	3.7	1.0	4.1	1.4	21.2	7.9	-1.4	-0.5
339	15.4	15.9	0.5	3.3	2.6	2.7	3.7	0.9	4.1	1.4	21.1	7.9	-1.4	-0.5
340	15.3	15.9	0.5	3.3	2.5	2.7	3.7	0.9	4.1	1.4	21.0	7.9	-1.4	-0.5
341	15.3	15.8	0.5	3.3	2.5	2.7	3.6	0.9	4.1	1.4	21.0	7.9	-1.4	-0.5
342	15.2	15.7	0.5	3.3	2.5	2.7	3.6	0.9	4.1	1.4	20.9	8.0	-1.4	-0.5
343	15.1	15.6	0.5	3.3	2.5	2.7	3.6	0.9	4.0	1.4	20.9	8.0	-1.4	-0.5
344	15.0	15.5	0.5	3.3	2.5	2.7	3.6	0.9	4.0	1.4	20.8	8.0	-1.4	-0.5
345	15.0	15.5	0.5	3.2	2.4	2.7	3.6	0.9	4.0	1.3	20.7	8.0	-1.4	-0.5
346	14.9	15.4	0.5	3.2	2.4	2.6	3.6	0.9	4.0	1.3	20.7	8.0	-1.4	-0.5
347	14.8	15.3	0.5	3.2	2.4	2.6	3.5	0.9	4.0	1.3	20.6	8.1	-1.4	-0.5
348	14.8	15.2	0.5	3.2	2.4	2.6	3.5	0.9	3.9	1.3	20.6	8.1	-1.3	-0.4
349	14.7	15.2	0.4	3.2	2.4	2.6	3.5	0.9	3.9	1.3	20.5	8.1	-1.3	-0.4
350	14.6	15.1	0.4	3.2	2.3	2.6	3.5	0.9	3.9	1.3	20.5	8.1	-1.3	-0.4
351	14.6	15.0	0.4	3.2	2.3	2.6	3.5	0.9	3.9	1.3	20.4	8.1	-1.3	-0.4
352	14.5	14.9	0.4	3.1	2.3	2.6	3.5	0.9	3.9	1.3	20.3	8.1	-1.3	-0.4
353	14.4	14.9	0.4	3.1	2.3	2.6	3.4	0.9	3.8	1.3	20.3	8.2	-1.3	-0.4
354	14.4	14.8	0.4	3.1	2.3	2.5	3.4	0.9	3.8	1.3	20.2	8.2	-1.3	-0.4
355	14.3	14.7	0.4	3.1	2.2	2.5	3.4	0.9	3.8	1.3	20.2	8.2	-1.3	-0.4
356	14.3	14.6	0.4	3.1	2.2	2.5	3.4	0.9	3.8	1.3	20.1	8.2	-1.3	-0.4
357	14.2	14.6	0.4	3.1	2.2	2.5	3.4	0.9	3.8	1.3	20.1	8.2	-1.3	-0.4
358	14.1	14.5	0.4	3.0	2.2	2.5	3.3	0.9	3.7	1.3	20.0	8.3	-1.3	-0.4
359	14.1	14.4	0.3	3.0	2.2	2.5	3.3	0.9	3.7	1.3	19.9	8.3	-1.3	-0.4
360	14.0	14.3	0.3	3.0	2.2	2.5	3.3	0.8	3.7	1.2	19.9	8.3	-1.3	-0.4
361	13.9	14.3	0.3	3.0	2.1	2.5	3.3	0.8	3.7	1.2	19.8	8.3	-1.3	-0.4
362	13.9	14.2	0.3	3.0	2.1	2.4	3.3	0.8	3.7	1.2	19.8	8.3	-1.3	-0.4
363	13.8	14.1	0.3	3.0	2.1	2.4	3.3	0.8	3.7	1.2	19.7	8.4	-1.2	-0.4
364	13.8	14.1	0.3	3.0	2.1	2.4	3.2	0.8	3.6	1.2	19.7	8.4	-1.2	-0.4

365	13.7	14.0	0.3	3.0	2.1	2.4	3.2	0.8	3.6	1.2	19.6	8.4	-1.2	-0.4
366	13.6	13.9	0.3	2.9	2.1	2.4	3.2	0.8	3.6	1.2	19.6	8.4	-1.2	-0.4
367	13.6	13.9	0.3	2.9	2.0	2.4	3.2	0.8	3.6	1.2	19.5	8.4	-1.2	-0.4
368	13.5	13.8	0.3	2.9	2.0	2.4	3.2	0.8	3.6	1.2	19.5	8.4	-1.2	-0.4
369	13.5	13.7	0.3	2.9	2.0	2.4	3.2	0.8	3.5	1.2	19.4	8.5	-1.2	-0.4
370	13.4	13.6	0.3	2.9	2.0	2.3	3.2	0.8	3.5	1.2	19.3	8.5	-1.2	-0.4
371	13.3	13.6	0.2	2.9	2.0	2.3	3.1	0.8	3.5	1.2	19.3	8.5	-1.2	-0.4
372	13.3	13.5	0.2	2.9	2.0	2.3	3.1	0.8	3.5	1.2	19.2	8.5	-1.2	-0.4
373	13.2	13.4	0.2	2.8	1.9	2.3	3.1	0.8	3.5	1.2	19.2	8.5	-1.2	-0.4
374	13.2	13.4	0.2	2.8	1.9	2.3	3.1	0.8	3.5	1.2	19.1	8.6	-1.2	-0.4
375	13.1	13.3	0.2	2.8	1.9	2.3	3.1	0.8	3.4	1.2	19.1	8.6	-1.2	-0.4
376	13.0	13.2	0.2	2.8	1.9	2.3	3.1	0.8	3.4	1.1	19.0	8.6	-1.2	-0.4
377	13.0	13.2	0.2	2.8	1.9	2.3	3.0	0.8	3.4	1.1	19.0	8.6	-1.2	-0.4
378	12.9	13.1	0.2	2.8	1.9	2.3	3.0	0.8	3.4	1.1	18.9	8.6	-1.2	-0.4
379	12.9	13.1	0.2	2.8	1.8	2.2	3.0	0.8	3.4	1.1	18.9	8.7	-1.2	-0.4
380	12.8	13.0	0.2	2.8	1.8	2.2	3.0	0.8	3.4	1.1	18.8	8.7	-1.1	-0.4
381	12.8	12.9	0.2	2.7	1.8	2.2	3.0	0.8	3.3	1.1	18.8	8.7	-1.1	-0.4
382	12.7	12.9	0.2	2.7	1.8	2.2	3.0	0.8	3.3	1.1	18.7	8.7	-1.1	-0.4
383	12.6	12.8	0.1	2.7	1.8	2.2	3.0	0.8	3.3	1.1	18.7	8.7	-1.1	-0.4
384	12.6	12.7	0.1	2.7	1.8	2.2	2.9	0.8	3.3	1.1	18.6	8.8	-1.1	-0.4
385	12.5	12.7	0.1	2.7	1.8	2.2	2.9	0.7	3.3	1.1	18.6	8.8	-1.1	-0.3
386	12.5	12.6	0.1	2.7	1.7	2.2	2.9	0.7	3.3	1.1	18.5	8.8	-1.1	-0.3
387	12.4	12.6	0.1	2.7	1.7	2.2	2.9	0.7	3.2	1.1	18.5	8.8	-1.1	-0.3
388	12.4	12.5	0.1	2.7	1.7	2.1	2.9	0.7	3.2	1.1	18.4	8.8	-1.1	-0.3
389	12.3	12.4	0.1	2.6	1.7	2.1	2.9	0.7	3.2	1.1	18.4	8.9	-1.1	-0.3
390	12.3	12.4	0.1	2.6	1.7	2.1	2.9	0.7	3.2	1.1	18.3	8.9	-1.1	-0.3
391	12.2	12.3	0.1	2.6	1.7	2.1	2.8	0.7	3.2	1.1	18.3	8.9	-1.1	-0.3
392	12.2	12.2	0.1	2.6	1.7	2.1	2.8	0.7	3.2	1.1	18.2	8.9	-1.1	-0.3
393	12.1	12.2	0.1	2.6	1.6	2.1	2.8	0.7	3.1	1.1	18.2	8.9	-1.1	-0.3
394	12.1	12.1	0.1	2.6	1.6	2.1	2.8	0.7	3.1	1.0	18.1	9.0	-1.1	-0.3
395	12.0	12.1	0.1	2.6	1.6	2.1	2.8	0.7	3.1	1.0	18.1	9.0	-1.1	-0.3
396	12.0	12.0	0.1	2.6	1.6	2.1	2.8	0.7	3.1	1.0	18.0	9.0	-1.1	-0.3
397	11.9	12.0	0.0	2.6	1.6	2.1	2.8	0.7	3.1	1.0	18.0	9.0	-1.1	-0.3
398	11.9	11.9	0.0	2.5	1.6	2.0	2.7	0.7	3.1	1.0	17.9	9.0	-1.0	-0.3
399	11.8	11.8	0.0	2.5	1.6	2.0	2.7	0.7	3.1	1.0	17.9	9.1	-1.0	-0.3
400	11.8	11.8	0.0	2.5	1.5	2.0	2.7	0.7	3.0	1.0	17.8	9.1	-1.0	-0.3