SI Dataset 4-Carbon and Hydrogen Fractionation Factors for Homolytic C-C Cleavage

T	eD-C3-C2	eD-C3-C1	eD-C2-C1	eD-C4-C3	eD-C4-C2	eD-C4-C1	eD-C5-C4	eD-C5-C3	eD-C5-C2	eD-C5-C1	e13C-C3-C2	e13C-C3-C1	e13C-C2-C1	e13C-C4-C3	e13C-C4-C2	e13C-C4-C1	e13C-C5-C4	e13C-C5-C3	e13C-C5-C2	e13C-C5-C1
0	127.4	482.6	315.1	8.2	136.6	494.8	-10.1	-2.0	125.1	479.6	11.3	35.0	23.4	9.2	20.6	44.5	3.8	13.0	24.5	48.5
2	126.0	476.9	311.6	7.9	135.0	488.6	-10.3	-2.4	123.3	473.3	11.2	34.6	23.1	9.1	20.4	44.0	3.7	12.9	24.3	47.9
4	124.7	471.2	308.1	7.7	133.4	482.6	-10.4	-2.8	121.6	467.1	11.1	34.1	22.7	9.0	20.3	43.5	3.7	12.8	24.1	47.3
6	123.4	465.7	304.7	7.5	131.8	476.7	-10.6	-3.2	119.8	461.1	11.0	33.7	22.4	9.0	20.1	42.9	3.7	12.7	23.9	46.8
8	122.1	460.3	301.4	7.3	130.3	470.9	-10.7	-3.5	118.1	455.1	11.0	33.2	22.0	8.9	20.0	42.4	3.7	12.6	23.7	46.2
10	120.8	454.9	298.1	7.1	128.8	465.2	-10.9	-3.9	116.5	449.2	10.9	32.8	21.7	8.8	19.8	41.9	3.6	12.5	23.5	45.7
12	119.6	449.7	294.9	6.9	127.3	459.6	-11.1	-4.3	114.8	443.5	10.8	32.4	21.3	8.8	19.6	41.4	3.6	12.4	23.3	45.2
14	118.3	444.5	291.7	6.7	125.8	454.2	-11.2	-4.6	113.2	437.9	10.7	31.9	21.0	8.7	19.5	40.9	3.6	12.3	23.1	44.6
16	117.1	439.5	288.6	6.5	124.3	448.8	-11.4	-5.0	111.6	432.3	10.6	31.5	20.7	8.6	19.3	40.4	3.5	12.2	22.9	44.1
18	115.9	434.5	285.5	6.3	122.9	443.5	-11.5	-5.3	110.0	426.9	10.5	31.1	20.4	8.6	19.2	39.9	3.5	12.1	22.8	43.6
20	114.7	429.6	282.5	6.1	121.5	438.3	-11.7	-5.7	108.4	421.5	10.4	30.7	20.1	8.5	19.0	39.5	3.5	12.0	22.6	43.1
22	113.6	424.9	279.5	5.9	120.1	433.2	-11.8	-6.0	106.9	416.3	10.4	30.3	19.8	8.4	18.9	39.0	3.5	11.9	22.4	42.6
24	112.4	420.2	276.6	5.7	118.7	428.2	-11.9	-6.3	105.4	411.1	10.3	29.9	19.4	8.4	18.7	38.5	3.4	11.8	22.2	42.1
26	111.3	415.5	273.8	5.5	117.4	423.3	-12.1	-6.7	103.9	406.1	10.2	29.5	19.1	8.3	18.6	38.1	3.4	11.7	22.1	41.6
28	110.2	411.0	270.9	5.3	116.1	418.4	-12.2	-7.0	102.4	401.1	10.1	29.2	18.8	8.2	18.5	37.6	3.4	11.7	21.9	41.2
30	109.1	406.5	268.2	5.1	114.8	413.7	-12.4	-7.3	101.0	396.2	10.0	28.8	18.6	8.2	18.3	37.2	3.4	11.6	21.7	40.7
32	108.0	402.1	265.4	4.9	113.5	409.0	-12.5	-7.7	99.5	391.4	10.0	28.4	18.3	8.1	18.2	36.8	3.3	11.5	21.6	40.2
34	107.0	397.8	262.7	4.7	112.2	404.4	-12.6	-8.0	98.1	386.7	9.9	28.1	18.0	8.1	18.0	36.3	3.3	11.4	21.4	39.8
36	105.9	393.6	260.1	4.5	110.9	399.9	-12.8	-8.3	96.8	382.0	9.8	27.7	17.7	8.0	17.9	35.9	3.3	11.3	21.3	39.3
38	104.9	389.4	257.5	4.4	109.7	395.5	-12.9	-8.6	95.4	377.4	9.7	27.3	17.4	8.0	17.8	35.5	3.3	11.2	21.1	38.9
40	103.9	385.3	254.9	4.2	108.5	391.1	-13.0	-8.9	94.0	372.9	9.7	27.0	17.1	7.9	17.6	35.1	3.2	11.2	20.9	38.4
42	102.9	381.2	252.4	4.0	107.3	386.8	-13.2	-9.2	92.7	368.5	9.6	26.6	16.9	7.8	17.5	34.7	3.2	11.1	20.8	38.0
44	101.9	377.3	249.9	3.8	106.1	382.6	-13.3	-9.5	91.4	364.2	9.5	26.3	16.6	7.8	17.4	34.3	3.2	11.0	20.6	37.6
46	100.9	373.4	247.5	3.7	104.9	378.4	-13.4	-9.8	90.1	359.9	9.5	26.0	16.3	7.7	17.3	33.9	3.2	10.9	20.5	37.2
48	100.0	369.5	245.1	3.5	103.8	374.3	-13.6	-10.1	88.8	355.7	9.4	25.6	16.1	7.7	17.1	33.5	3.1	10.9	20.3	36.8
50	99.0	365.7	242.7	3.3	102.7	370.3	-13.7	-10.4	87.6	351.5	9.3	25.3	15.8	7.6	17.0	33.1	3.1	10.8	20.2	36.3
52	98.1	362.0	240.4	3.2	101.5	366.3	-13.8	-10.7	86.3	347.4	9.3	25.0	15.6	7.6	16.9	32.7	3.1	10.7	20.1	35.9
54	97.1	358.3	238.0	3.0	100.4	362.4	-13.9	-11.0	85.1	343.4	9.2	24.6	15.3	7.5	16.8	32.4	3.1	10.6	19.9	35.5
56	96.2	354.7	235.8	2.8	99.3	358.5	-14.0	-11.3	83.9	339.5	9.1	24.3	15.1	7.5	16.7	32.0	3.1	10.6	19.8	35.1
58	95.3	351.1	233.5	2.7	98.3	354.7	-14.2	-11.5	82.7	335.6	9.1	24.0	14.8	7.4	16.5	31.6	3.0	10.5	19.6	34.8
60	94.5	347.6	231.3	2.5	97.2	351.0	-14.3	-11.8	81.5	331.7	9.0	23.7	14.6	7.4	16.4	31.3	3.0	10.4	19.5	34.4
62	93.6	344.2	229.2	2.3	96.1	347.3	-14.4	-12.1	80.4	327.9	8.9	23.4	14.3	7.3	16.3	30.9	3.0	10.3	19.4	34.0
64	92.7	340.8	227.0	2.2	95.1	343.7	-14.5	-12.4	79.2	324.2	8.9	23.1	14.1	7.3	16.2	30.5	3.0	10.3	19.2	33.6
66	91.9	337.4	224.9	2.0	94.1	340.1	-14.6	-12.6	78.1	320.5	8.8	22.8	13.9	7.2	16.1	30.2	3.0	10.2	19.1	33.2
68	91.0	334.1	222.8	1.9	93.1	336.6	-14.7	-12.9	77.0	316.9	8.7	22.5	13.6	7.2	16.0	29.9	2.9	10.1	19.0	32.9
70	90.2	330.9	220.8	1.7	92.1	333.2	-14.9	-13.2	75.9	313.4	8.7	22.2	13.4	7.1	15.9	29.5	2.9	10.1	18.8	32.5
72	89.4	327.7	218.7	1.6	91.1	329.8	-15.0	-13.4	74.8	309.9	8.6	21.9	13.2	7.1	15.8	29.2	2.9	10.0	18.7	32.2
74	88.6	324.5	216.7	1.4	90.1	326.4	-15.1	-13.7	73.7	306.4	8.6	21.7	13.0	7.0	15.7	28.8	2.9	9.9	18.6	31.8
76	87.8	321.4	214.8	1.3	89.2	323.1	-15.2	-13.9	72.6	303.0	8.5	21.4	12.8	7.0	15.6	28.5	2.9	9.9	18.5	31.5
78	87.0	318.3	212.8	1.1	88.2	319.8	-15.3	-14.2	71.6	299.6	8.5	21.1	12.5	7.0	15.5	28.2	2.8	9.8	18.3	31.1
80	86.2	315.3	210.9	1.0	87.3	316.6	-15.4	-14.4	70.5	296.3	8.4	20.8	12.3	6.9	15.4	27.9	2.8	9.7	18.2	30.8
82	85.4	312.3	209.0	0.9	86.4	313.4	-15.5	-14.7	69.5	293.1	8.3	20.5	12.1	6.9	15.3	27.6	2.8	9.7	18.1	30.4
84	84.7	309.4	207.1	0.7	85.5	310.3	-15.6	-14.9	68.5	289.8	8.3	20.3	11.9	6.8	15.2	27.2	2.8	9.6	18.0	30.1
86	83.9	306.5	205.3	0.6	84.6	307.2	-15.7	-15.2	67.5	286.7	8.2	20.0	11.7	6.8	15.1	26.9	2.8	9.6	17.9	29.8
88	83.2	303.6	203.5	0.4	83.7	304.2	-15.8	-15.4	66.5	283.5	8.2	19.8	11.5	6.7	15.0	26.6	2.7	9.5	17.7	29.4
90	82.5	300.8	201.7	0.3	82.8	301.2	-15.9	-15.6	65.5	280.4	8.1	19.5	11.3	6.7	14.9	26.3	2.7	9.4	17.6	29.1
92	81.7	298.0	199.9	0.2	81.9	298.2	-16.0	-15.9	64.6	277.4	8.1	19.2	11.1	6.7	14.8	26.0	2.7	9.4	17.5	28.8
94	81.0	295.2	198.2	0.0	81.1	295.3	-16.1	-16.1	63.6	274.4	8.0	19.0	10.9	6.6	14.7	25.7	2.7	9.3	17.4	28.5
96	80.3	292.5	196.4	-0.1	80.2	292.4	-16.2	-16.3	62.7	271.4	8.0	18.7	10.7	6.6	14.6	25.4	2.7	9.3	17.3	28.2
98	79.6	289.9	194.7	-0.2	79.4	289.5	-16.3	-16.6	61.7	268.5	7.9	18.5	10.5	6.5	14.5	25.1	2.7	9.2	17.2	27.9
100	78.9	287.2	193.0	-0.4	78.5	286.7	-16.4	-16.8	60.8	265.6	7.9	18.2	10.3	6.5	14.4	24.9	2.6	9.2	17.1	27.6
102	78.3	284.6	191.4	-0.5	77.7	284.0	-16.5	-17.0	59.9	262.8	7.8	18.0	10.1	6.5	14.3	24.6	2.6	9.1	17.0	27.3
104	77.6	282.0	189.7	-0.6	76.9	281.2	-16.6	-17.2	59.0	259.9	7.8	17.8	9.9	6.4	14.2	24.3	2.6	9.0	16.9	27.0
106	76.9	279.5	188.1	-0.8	76.1	278.5	-16.7	-17.4	58.1	257.2	7.7	17.5	9.7	6.4	14.1	24.0	2.6	9.0	16.8	26.7
108	76.3	277.0	186.5	-0.9	75.3	275.9	-16.8	-17.7	57.2	254.4	7.7	17.3	9.6	6.3	14.0	23.7	2.6	8.9	16.7	26.4
110	75.6	274.5	184.9	-1.0	74.5	273.2	-16.9	-17.9	56.4	251.7	7.6	17.1	9.4	6.3	14.0	23.5	2.6	8.9	16.6	26.1
112	75.0	272.1	183.4	-1.1	73.8	270.6	-17.0	-18.1	55.5	249.1	7.6	16.8	9.2	6.3	13.9	23.2	2.5	8.8	16.5	25.8
114	74.3	269.7	181.8	-1.2	73.0	268.1	-17.1	-18.3	54.7	246.4	7.5	16.6	9.0	6.2	13.8	22.9	2.5	8.8	16.4	25.5
116	73.7	267.3	180.3	-1.4	72.2	265.6	-17.2	-18.5	53.8	243.8	7.5	16.4	8.9	6.2	13.7	22.7	2.5	8.7	16.3	25.2
118	73.1	264.9	178.8	-1.5	71.5	263.1	-17.3	-18.7	53.0	241.3	7.4	16.2	8.7	6.2	13.6	22.4	2.5	8.7	16.2	25.0
120	72.5	262.6	177.3	-1.6	70.7	260.6	-17.3	-18.9	52.2	238.7	7.4	15.9	8.5	6.1	13.5	22.2	2.5	8.6	16.1	24.7
122	71.9	260.3	175.8	-1.7	70.0	258.2	-17.4	-19.1	51.4	236.2	7.3	15.7	8.3	6.1	13.5	21.9	2.5	8.6	16.0	24.4

124	71.3	258.1	174.4	-1.8	69.3	255.7	-17.5	-19.3	50.5	233.7	7.3	15.5	8.2	6.0	13.4	21.7	2.5	8.5	15.9	24.2
126	70.7	255.8	172.9	-2.0	68.6	253.4	-17.6	-19.5	49.8	231.3	7.2	15.3	8.0	6.0	13.3	21.4	2.4	8.5	15.8	23.9
128	70.1	253.6	171.5	-2.1	67.9	251.0	-17.7	-19.7	49.0	228.9	7.2	15.1	7.8	6.0	13.2	21.2	2.4	8.4	15.7	23.6
130	69.5	251.4	170.1	-2.2	67.2	248.7	-17.8	-19.9	48.2	226.5	7.1	14.9	7.7	5.9	13.1	20.9	2.4	8.4	15.6	23.4
132	68.9	249.3	168.7	-2.3	66.5	246.4	-17.9	-20.1	47.4	224.1	7.1	14.7	7.5	5.9	13.1	20.7	2.4	8.3	15.5	23.1
134	68.4	247.2	167.4	-2.4	65.8	244.1	-17.9	-20.3	46.7	221.8	7.1	14.5	7.4	5.9	13.0	20.4	2.4	8.3	15.4	22.9
136	67.8	245.0	166.0	-2.5	65.1	241.9	-18.0	-20.5	45.9	219.5	7.0	14.3	7.2	5.8	12.9	20.2	2.4	8.2	15.3	22.6
138	67.2	243.0	164.7	-2.6	64.4	239.7	-18.1	-20.7	45.1	217.2	7.0	14.1	7.0	5.8	12.8	20.0	2.4	8.2	15.2	22.4
140	66.7	240.9	163.3	-2.7	63.8	237.5	-18.2	-20.9	44.4	215.0	6.9	13.9	6.9	5.8	12.8	19.7	2.3	8.1	15.1	22.1
142	66.1	238.9	162.0	-2.8	63.1	235.3	-18.3	-21.1	43.7	212.8	6.9	13.7	6.7	5.7	12.7	19.5	2.3	8.1	15.0	21.9
144	65.6	236.9	160.7	-3.0	62.5	233.2	-18.4	-21.3	43.0	210.6	6.9	13.5	6.6	5.7	12.6	19.3	2.3	8.0	15.0	21.6
146	65.1	234.9	159.4	-3.1	61.8	231.1	-18.4	-21.4	42.2	208.4	6.8	13.3	6.4	5.7	12.5	19.0	2.3	8.0	14.9	21.4
148	64.5	232.9	158.2	-3.2	61.2	229.0	-18.5	-21.6	41.5	206.3	6.8	13.1	6.3	5.7	12.5	18.8	2.3	8.0	14.8	21.2
150	64.0	231.0	156.9	-3.3	60.5	227.0	-18.6	-21.8	40.8	204.2	6.7	12.9	6.1	5.6	12.4	18.6	2.3	7.9	14.7	20.9
152	63.5	229.1	155.7	-3.4	59.9	224.9	-18.7	-22.0	40.1	202.1	6.7	12.7	6.0	5.6	12.3	18.4	2.3	7.9	14.6	20.7
154	63.0	227.2	154.5	-3.5	59.3	222.9	-18.7	-22.2	39.4	200.0	6.7	12.5	5.8	5.6	12.3	18.2	2.3	7.8	14.5	20.5
156	62.5	225.3	153.2	-3.6	58.7	220.9	-18.8	-22.3	38.8	197.9	6.6	12.4	5.7	5.5	12.2	18.0	2.2	7.8	14.5	20.2
158	62.0	223.4	152.0	-3.7	58.1	218.9	-18.9	-22.5	38.1	195.9	6.6	12.2	5.6	5.5	12.1	17.7	2.2	7.7	14.4	20.0
160	61.5	221.6	150.8	-3.8	57.5	217.0	-19.0	-22.7	37.4	193.9	6.5	12.0	5.4	5.5	12.0	17.5	2.2	7.7	14.3	19.8
162	61.0	219.8	149.7	-3.9	56.9	215.1	-19.0	-22.8	36.8	191.9	6.5	11.8	5.3	5.4	12.0	17.3	2.2	7.7	14.2	19.6
164	60.5	218.0	148.5	-4.0	56.3	213.2	-19.1	-23.0	36.1	190.0	6.5	11.6	5.1	5.4	11.9	17.1	2.2	7.6	14.1	19.3
166	60.0	216.2	147.4	-4.1	55.7	211.3	-19.2	-23.2	35.5	188.0	6.4	11.5	5.0	5.4	11.9	16.9	2.2	7.6	14.1	19.1
168	59.5	214.5	146.2	-4.2	55.1	209.4	-19.3	-23.3	34.8	186.1	6.4	11.3	4.9	5.4	11.8	16.7	2.2	7.5	14.0	18.9
170	59.1	212.7	145.1	-4.3	54.6	207.6	-19.3	-23.5	34.2	184.2	6.4	11.1	4.7	5.3	11.7	16.5	2.2	7.5	13.9	18.7
172	58.6	211.0	144.0	-4.4	54.0	205.7	-19.4	-23.7	33.5	182.3	6.3	10.9	4.6	5.3	11.7	16.3	2.1	7.5	13.8	18.5
174	58.1	209.3	142.9	-4.5	53.4	203.9	-19.5	-23.8	32.9	180.5	6.3	10.8	4.5	5.3	11.6	16.1	2.1	7.4	13.7	18.3
176	57.7	207.6	141.8	-4.5	52.9	202.1	-19.5	-24.0	32.3	178.7	6.2	10.6	4.3	5.2	11.5	15.9	2.1	7.4	13.7	18.1
178	57.2	206.0	140.7	-4.6	52.3	200.4	-19.6	-24.2	31.7	176.8	6.2	10.4	4.2	5.2	11.5	15.7	2.1	7.3	13.6	17.9
180	56.8	204.3	139.6	-4.7	51.8	198.6	-19.7	-24.3	31.1	175.0	6.2	10.3	4.1	5.2	11.4	15.5	2.1	7.3	13.5	17.7
182	56.3	202.7	138.6	-4.8	51.2	196.9	-19.8	-24.5	30.5	173.3	6.1	10.1	3.9	5.2	11.3	15.3	2.1	7.3	13.5	17.5
184	55.9	201.1	137.5	-4.9	50.7	195.2	-19.8	-24.6	29.9	171.5	6.1	10.0	3.8	5.1	11.3	15.1	2.1	7.2	13.4	17.3
186	55.5	199.5	136.5	-5.0	50.2	193.5	-19.9	-24.8	29.3	169.8	6.1	9.8	3.7	5.1	11.2	15.0	2.1	7.2	13.3	17.1
188	55.0	197.9	135.4	-5.1	49.7	191.8	-20.0	-24.9	28.7	168.0	6.0	9.6	3.6	5.1	11.2	14.8	2.0	7.1	13.2	16.9
190	54.6	196.4	134.4	-5.2	49.1	190.2	-20.0	-25.1	28.1	166.3	6.0	9.5	3.5	5.1	11.1	14.6	2.0	7.1	13.2	16.7
192	54.2	194.8	133.4	-5.3	48.6	188.5	-20.1	-25.2	27.6	164.7	6.0	9.3	3.3	5.0	11.0	14.4	2.0	7.1	13.1	16.5
194	53.7	193.3	132.4	-5.4	48.1	186.9	-20.1	-25.4	27.0	163.0	5.9	9.2	3.2	5.0	11.0	14.2	2.0	7.0	13.0	16.3
196	53.3	191.8	131.4	-5.4	47.6	185.3	-20.2	-25.5	26.4	161.3	5.9	9.0	3.1	5.0	10.9	14.1	2.0	7.0	13.0	16.1
198	52.9	190.3	130.5	-5.5	47.1	183.7	-20.3	-25.7	25.9	159.7	5.9	8.9	3.0	5.0	10.9	13.9	2.0	7.0	12.9	15.9
200	52.5	188.8	129.5	-5.6	46.6	182.1	-20.3	-25.8	25.3	158.1	5.8	8.7	2.9	4.9	10.8	13.7	2.0	6.9	12.8	15.7
202	52.1	187.3	128.5	-5.7	46.1	180.6	-20.4	-26.0	24.8	156.5	5.8	8.6	2.7	4.9	10.8	13.5	2.0	6.9	12.8	15.5
204	51.7	185.9	127.6	-5.8	45.6	179.0	-20.5	-26.1	24.2	154.9	5.8	8.4	2.6	4.9	10.7	13.4	2.0	6.9	12.7	15.3
206	51.3	184.4	126.6	-5.9	45.1	177.5	-20.5	-26.3	23.7	153.3	5.8	8.3	2.5	4.9	10.6	13.2	2.0	6.8	12.6	15.2
208	50.9	183.0	125.7	-5.9	44.7	176.0	-20.6	-26.4	23.1	151.7	5.7	8.1	2.4	4.8	10.6	13.0	1.9	6.8	12.6	15.0
210	50.5	181.6	124.8	-6.0	44.2	174.5	-20.7	-26.5	22.6	150.2	5.7	8.0	2.3	4.8	10.5	12.8	1.9	6.8	12.5	14.8
212	50.1	180.2	123.8	-6.1	43.7	173.0	-20.7	-26.7	22.1	148.7	5.7	7.8	2.2	4.8	10.5	12.7	1.9	6.7	12.4	14.6
214	49.7	178.8	122.9	-6.2	43.2	171.5	-20.8	-26.8	21.6	147.2	5.6	7.7	2.1	4.8	10.4	12.5	1.9	6.7	12.4	14.5
216	49.4	177.4	122.0	-6.3	42.8	170.1	-20.8	-27.0	21.1	145.7	5.6	7.6	1.9	4.7	10.4	12.3	1.9	6.7	12.3	14.3
218	49.0	176.1	121.2	-6.3	42.3	168.6	-20.9	-27.1	20.5	144.2	5.6	7.4	1.8	4.7	10.3	12.2	1.9	6.6	12.2	14.1
220	48.6	174.7	120.3	-6.4	41.9	167.2	-21.0	-27.2	20.0	142.7	5.5	7.3	1.7	4.7	10.3	12.0	1.9	6.6	12.2	13.9
222	48.2	173.4	119.4	-6.5	41.4	165.8	-21.0	-27.4	19.5	141.3	5.5	7.1	1.6	4.7	10.2	11.9	1.9	6.6	12.1	13.8
224	47.9	172.1	118.5	-6.6	41.0	164.4	-21.1	-27.5	19.0	139.8	5.5	7.0	1.5	4.7	10.2	11.7	1.9	6.5	12.1	13.6
226	47.5	170.8	117.7	-6.6	40.5	163.0	-21.1	-27.6	18.5	138.4	5.5	6.9	1.4	4.6	10.1	11.5	1.9	6.5	12.0	13.4
228	47.1	169.5	116.8	-6.7	40.1	161.6	-21.2	-27.8	18.1	137.0	5.4	6.7	1.3	4.6	10.1	11.4	1.8	6.5	11.9	13.3
230	46.8	168.2	116.0	-6.8	39.7	160.2	-21.2	-27.9	17.6	135.6	5.4	6.6	1.2	4.6	10.0	11.2	1.8	6.4	11.9	13.1
232	46.4	166.9	115.1	-6.9	39.2	158.9	-21.3	-28.0	17.1	134.2	5.4	6.5	1.1	4.6	10.0	11.1	1.8	6.4	11.8	12.9
234	46.1	165.6	114.3	-7.0	38.8	157.5	-21.4	-28.2	16.6	132.8	5.3	6.4	1.0	4.6	9.9	10.9	1.8	6.4	11.8	12.8
236	45.7	164.4	113.5	-7.0	38.4	156.2	-21.4	-28.3	16.1	131.5	5.3	6.2	0.9	4.5	9.9	10.8	1.8	6.3	11.7	12.6
238	45.4	163.2	112.7	-7.1	38.0	154.9	-21.5	-28.4	15.7	130.1	5.3	6.1	0.8	4.5	9.8	10.6	1.8	6.3	11.6	12.5
240	45.0	161.9	111.9	-7.2	37.5	153.6	-21.5	-28.5	15.2	128.8	5.3	6.0	0.7	4.5	9.8	10.5	1.8	6.3	11.6	12.3
242	44.7	160.7	111.1	-7.2	37.1	152.3	-21.6	-28.7	14.7	127.5	5.2	5.8	0.6	4.5	9.7	10.3	1.8	6.3	11.5	12.1
244	44.4	159.5	110.3	-7.3	36.7	151.0	-21.6	-28.8	14.3	126.1	5.2	5.7	0.5	4.4	9.7	10.2	1.8	6.2	11.5	12.0
246	44.0	158.3	109.5	-7.4	36.3	149.8	-21.7	-28.9	13.8	124.8	5.2	5.6	0.4	4.4	9.6	10.0	1.8	6.2	11.4	11.8
248	43.7	157.1	108.7	-7.5	35.9	148.5	-21.7	-29.0	13.4	123.5	5.2	5.5	0.3	4.4	9.6	9.9	1.8	6.2	11.4	11.7
250	43.4	156.0	107.9	-7.5	35.5	147.3	-21.8	-29.2	12.9	122.3	5.1	5.3	0.2	4.4	9.5	9.8	1.7	6.1	11.3	11.5

252	43.0	154.8	107.2	-7.6	35.1	146.0	-21.8	-29.3	12.5	121.0	5.1	5.2	0.1	4.4	9.5	9.6	1.7	6.1	11.3	11.4
254	42.7	153.7	106.4	-7.7	34.7	144.8	-21.9	-29.4	12.1	119.7	5.1	5.1	0.0	4.3	9.4	9.5	1.7	6.1	11.2	11.2
256	42.4	152.5	105.7	-7.7	34.3	143.6	-21.9	-29.5	11.6	118.5	5.1	5.0	-0.1	4.3	9.4	9.3	1.7	6.1	11.1	11.1
258	42.1	151.4	104.9	-7.8	33.9	142.4	-22.0	-29.6	11.2	117.3	5.0	4.9	-0.2	4.3	9.4	9.2	1.7	6.0	11.1	10.9
260	41.7	150.3	104.2	-7.9	33.5	141.2	-22.1	-29.7	10.8	116.0	5.0	4.7	-0.3	4.3	9.3	9.1	1.7	6.0	11.0	10.8
262	41.4	149.2	103.4	-7.9	33.2	140.0	-22.1	-29.9	10.3	114.8	5.0	4.6	-0.3	4.3	9.3	8.9	1.7	6.0	11.0	10.6
264	41.1	148.1	102.7	-8.0	32.8	138.9	-22.2	-30.0	9.9	113.6	5.0	4.5	-0.4	4.2	9.2	8.8	1.7	5.9	10.9	10.5
266	40.8	147.0	102.0	-8.1	32.4	137.7	-22.2	-30.1	9.5	112.4	4.9	4.4	-0.5	4.2	9.2	8.7	1.7	5.9	10.9	10.3
268	40.5	145.9	101.3	-8.1	32.0	136.6	-22.3	-30.2	9.1	111.3	4.9	4.3	-0.6	4.2	9.1	8.5	1.7	5.9	10.8	10.2
270	40.2	144.8	100.6	-8.2	31.7	135.4	-22.3	-30.3	8.7	110.1	4.9	4.2	-0.7	4.2	9.1	8.4	1.7	5.9	10.8	10.1
272	39.9	143.7	99.9	-8.3	31.3	134.3	-22.4	-30.4	8.2	108.9	4.9	4.1	-0.8	4.2	9.1	8.3	1.7	5.8	10.7	9.9
274	39.6	142.7	99.2	-8.3	30.9	133.2	-22.4	-30.5	7.8	107.8	4.8	3.9	-0.9	4.2	9.0	8.1	1.7	5.8	10.7	9.8
276	39.3	141.6	98.5	-8.4	30.6	132.1	-22.4	-30.7	7.4	106.6	4.8	3.8	-1.0	4.1	9.0	8.0	1.6	5.8	10.6	9.7
278	39.0	140.6	97.8	-8.5	30.2	131.0	-22.5	-30.8	7.0	105.5	4.8	3.7	-1.1	4.1	8.9	7.9	1.6	5.8	10.6	9.5
280	38.7	139.6	97.1	-8.5	29.9	129.9	-22.5	-30.9	6.6	104.4	4.8	3.6	-1.1	4.1	8.9	7.7	1.6	5.7	10.5	9.4
282	38.4	138.6	96.4	-8.6	29.5	128.8	-22.6	-31.0	6.2	103.3	4.7	3.5	-1.2	4.1	8.8	7.6	1.6	5.7	10.5	9.2
284	38.1	137.5	95.8	-8.6	29.2	127.7	-22.6	-31.1	5.9	102.2	4.7	3.4	-1.3	4.1	8.8	7.5	1.6	5.7	10.4	9.1
286	37.8	136.5	95.1	-8.7	28.8	126.6	-22.7	-31.2	5.5	101.1	4.7	3.3	-1.4	4.0	8.8	7.4	1.6	5.7	10.4	9.0
288	37.6	135.5	94.4	-8.8	28.5	125.6	-22.7	-31.3	5.1	100.0	4.7	3.2	-1.5	4.0	8.7	7.2	1.6	5.6	10.3	8.8
290	37.3	134.6	93.8	-8.8	28.1	124.5	-22.8	-31.4	4.7	98.9	4.7	3.1	-1.6	4.0	8.7	7.1	1.6	5.6	10.3	8.7
292	37.0	133.6	93.1	-8.9	27.8	123.5	-22.8	-31.5	4.3	97.9	4.6	3.0	-1.6	4.0	8.6	7.0	1.6	5.6	10.2	8.6
294	36.7	132.6	92.5	-9.0	27.4	122.5	-22.9	-31.6	3.9	96.8	4.6	2.9	-1.7	4.0	8.6	6.9	1.6	5.6	10.2	8.5
296	36.5	131.6	91.8	-9.0	27.1	121.4	-22.9	-31.7	3.6	95.7	4.6	2.8	-1.8	4.0	8.6	6.8	1.6	5.5	10.1	8.3
298	36.2	130.7	91.2	-9.1	26.8	120.4	-23.0	-31.8	3.2	94.7	4.6	2.7	-1.9	3.9	8.5	6.6	1.6	5.5	10.1	8.2
300	35.9	129.7	90.6	-9.1	26.4	119.4	-23.0	-31.9	2.8	93.7	4.5	2.6	-2.0	3.9	8.5	6.5	1.6	5.5	10.1	8.1
302	35.6	128.8	90.0	-9.2	26.1	118.4	-23.0	-32.0	2.5	92.6	4.5	2.5	-2.0	3.9	8.5	6.4	1.5	5.5	10.0	8.0
304	35.4	127.9	89.3	-9.3	25.8	117.4	-23.1	-32.1	2.1	91.6	4.5	2.4	-2.1	3.9	8.4	6.3	1.5	5.4	10.0	7.8
306	35.1	126.9	88.7	-9.3	25.5	116.5	-23.1	-32.2	1.7	90.6	4.5	2.3	-2.2	3.9	8.4	6.2	1.5	5.4	9.9	7.7
308	34.8	126.0	88.1	-9.4	25.2	115.5	-23.2	-32.3	1.4	89.6	4.5	2.2	-2.3	3.9	8.3	6.0	1.5	5.4	9.9	7.6
310	34.6	125.1	87.5	-9.4	24.8	114.5	-23.2	-32.4	1.0	88.6	4.4	2.1	-2.3	3.8	8.3	5.9	1.5	5.4	9.8	7.5
312	34.3	124.2	86.9	-9.5	24.5	113.6	-23.3	-32.5	0.7	87.6	4.4	2.0	-2.4	3.8	8.3	5.8	1.5	5.4	9.8	7.3
314	34.1	123.3	86.3	-9.5	24.2	112.6	-23.3	-32.6	0.3	86.7	4.4	1.9	-2.5	3.8	8.2	5.7	1.5	5.3	9.7	7.2
316	33.8	122.4	85.7	-9.6	23.9	111.7	-23.4	-32.7	0.0	85.7	4.4	1.8	-2.6	3.8	8.2	5.6	1.5	5.3	9.7	7.1
318	33.6	121.5	85.1	-9.6	23.6	110.7	-23.4	-32.8	-0.4	84.7	4.4	1.7	-2.7	3.8	8.2	5.5	1.5	5.3	9.7	7.0
320	33.3	120.7	84.5	-9.7	23.3	109.8	-23.4	-32.9	-0.7	83.8	4.3	1.6	-2.7	3.8	8.1	5.4	1.5	5.3	9.6	6.9
322	33.1	119.8	84.0	-9.8	23.0	108.9	-23.5	-33.0	-1.0	82.8	4.3	1.5	-2.8	3.8	8.1	5.3	1.5	5.2	9.6	6.7
324	32.8	118.9	83.4	-9.8	22.7	108.0	-23.5	-33.1	-1.4	81.9	4.3	1.4	-2.9	3.7	8.0	5.2	1.5	5.2	9.5	6.6
326	32.6	118.1	82.8	-9.9	22.4	107.0	-23.6	-33.2	-1.7	81.0	4.3	1.3	-2.9	3.7	8.0	5.0	1.5	5.2	9.5	6.5
328	32.3	117.2	82.3	-9.9	22.1	106.1	-23.6	-33.3	-2.1	80.0	4.3	1.2	-3.0	3.7	8.0	4.9	1.5	5.2	9.4	6.4
330	32.1	116.4	81.7	-10.0	21.8	105.3	-23.6	-33.4	-2.4	79.1	4.2	1.1	-3.1	3.7	7.9	4.8	1.5	5.2	9.4	6.3
332	31.8	115.6	81.1	-10.0	21.5	104.4	-23.7	-33.5	-2.7	78.2	4.2	1.0	-3.2	3.7	7.9	4.7	1.4	5.1	9.4	6.2
334	31.6	114.7	80.6	-10.1	21.2	103.5	-23.7	-33.6	-3.0	77.3	4.2	1.0	-3.2	3.7	7.9	4.6	1.4	5.1	9.3	6.1
336	31.4	113.9	80.0	-10.1	20.9	102.6	-23.8	-33.7	-3.4	76.4	4.2	0.9	-3.3	3.6	7.8	4.5	1.4	5.1	9.3	6.0
338	31.1	113.1	79.5	-10.2	20.6	101.7	-23.8	-33.8	-3.7	75.5	4.2	0.8	-3.4	3.6	7.8	4.4	1.4	5.1	9.2	5.8
340	30.9	112.3	78.9	-10.2	20.3	100.9	-23.8	-33.8	-4.0	74.6	4.1	0.7	-3.4	3.6	7.8	4.3	1.4	5.0	9.2	5.7
342	30.6	111.5	78.4	-10.3	20.0	100.0	-23.9	-33.9	-4.3	73.8	4.1	0.6	-3.5	3.6	7.7	4.2	1.4	5.0	9.2	5.6
344	30.4	110.7	77.9	-10.3	19.8	99.2	-23.9	-34.0	-4.6	72.9	4.1	0.5	-3.6	3.6	7.7	4.1	1.4	5.0	9.1	5.5
346	30.2	109.9	77.3	-10.4	19.5	98.3	-24.0	-34.1	-4.9	72.0	4.1	0.4	-3.6	3.6	7.7	4.0	1.4	5.0	9.1	5.4
348	30.0	109.1	76.8	-10.4	19.2	97.5	-24.0	-34.2	-5.3	71.2	4.1	0.3	-3.7	3.6	7.6	3.9	1.4	5.0	9.0	5.3
350	29.7	108.3	76.3	-10.5	18.9	96.7	-24.0	-34.3	-5.6	70.3	4.0	0.3	-3.8	3.5	7.6	3.8	1.4	4.9	9.0	5.2
352	29.5	107.5	75.8	-10.5	18.7	95.8	-24.1	-34.4	-5.9	69.5	4.0	0.2	-3.8	3.5	7.6	3.7	1.4	4.9	9.0	5.1
354	29.3	106.8	75.3	-10.6	18.4	95.0	-24.1	-34.5	-6.2	68.6	4.0	0.1	-3.9	3.5	7.5	3.6	1.4	4.9	8.9	5.0
356	29.1	106.0	74.8	-10.6	18.1	94.2	-24.2	-34.5	-6.5	67.8	4.0	0.0	-4.0	3.5	7.5	3.5	1.4	4.9	8.9	4.9
358	28.8	105.2	74.2	-10.7	17.8	93.4	-24.2	-34.6	-6.8	67.0	4.0	-0.1	-4.0	3.5	7.5	3.4	1.4	4.9	8.9	4.8
360	28.6	104.5	73.7	-10.7	17.6	92.6	-24.2	-34.7	-7.1	66.1	4.0	-0.2	-4.1	3.5	7.4	3.3	1.4	4.8	8.8	4.7
362	28.4	103.7	73.2	-10.8	17.3	91.8	-24.3	-34.8	-7.4	65.3	3.9	-0.3	-4.2	3.5	7.4	3.2	1.4	4.8	8.8	4.6
364	28.2	103.0	72.7	-10.8	17.0	91.0	-24.3	-34.9	-7.7	64.5	3.9	-0.3	-4.2	3.5	7.4	3.1	1.3	4.8	8.7	4.5
366	28.0	102.2	72.3	-10.9	16.8	90.2	-24.3	-35.0	-8.0	63.7	3.9	-0.4	-4.3	3.4	7.4	3.0	1.3	4.8	8.7	4.4
368	27.8	101.5	71.8	-10.9	16.5	89.5	-24.4	-35.0	-8.3	62.9	3.9	-0.5	-4.4	3.4	7.3	2.9	1.3	4.8	8.7	4.3
370	27.5	100.8	71.3	-11.0	16.3	88.7	-24.4	-35.1	-8.5	62.1	3.9	-0.6	-4.4	3.4	7.3	2.8	1.3	4.7	8.6	4.2
372	27.3	100.1	70.8	-11.0	16.0	87.9	-24.4	-35.2	-8.8	61.3	3.8	-0.7	-4.5	3.4	7.3	2.7	1.3	4.7	8.6	4.1
374	27.1	99.3	70.3	-11.1	15.7	87.2	-24.5	-35.3	-9.1	60.5	3.8	-0.7	-4.5	3.4	7.2	2.6	1.3	4.7	8.6	4.0
376	26.9	98.6	69.8	-11.1	15.5	86.4	-24.5	-35.4	-9.4	59.8	3.8	-0.8	-4.6	3.4	7.2	2.6	1.3	4.7	8.5	3.9
378	26.7	97.9	69.4	-11.2	15.2	85.7	-24.6	-35.5	-9.7	59.0	3.8	-0.9	-4.7	3.4	7.2	2.5	1.3	4.7	8.5	3.8

380	26.5	97.2	68.9	-11.2	15.0	84.9	-24.6	-35.5	-10.0	58.2	3.8	-1.0	-4.7	3.3	7.1	2.4	1.3	4.7	8.5	3.7
382	26.3	96.5	68.4	-11.3	14.7	84.2	-24.6	-35.6	-10.2	57.5	3.8	-1.0	-4.8	3.3	7.1	2.3	1.3	4.6	8.4	3.6
384	26.1	95.8	68.0	-11.3	14.5	83.4	-24.7	-35.7	-10.5	56.7	3.7	-1.1	-4.9	3.3	7.1	2.2	1.3	4.6	8.4	3.5
386	25.9	95.1	67.5	-11.4	14.3	82.7	-24.7	-35.8	-10.8	56.0	3.7	-1.2	-4.9	3.3	7.1	2.1	1.3	4.6	8.4	3.4
388	25.7	94.5	67.0	-11.4	14.0	82.0	-24.7	-35.8	-11.1	55.2	3.7	-1.3	-5.0	3.3	7.0	2.0	1.3	4.6	8.3	3.3
390	25.5	93.8	66.6	-11.4	13.8	81.3	-24.8	-35.9	-11.3	54.5	3.7	-1.3	-5.0	3.3	7.0	1.9	1.3	4.6	8.3	3.2
392	25.3	93.1	66.1	-11.5	13.5	80.5	-24.8	-36.0	-11.6	53.8	3.7	-1.4	-5.1	3.3	7.0	1.8	1.3	4.5	8.2	3.1
394	25.1	92.4	65.7	-11.5	13.3	79.8	-24.8	-36.1	-11.9	53.0	3.7	-1.5	-5.1	3.3	6.9	1.8	1.3	4.5	8.2	3.0
396	24.9	91.8	65.2	-11.6	13.0	79.1	-24.9	-36.2	-12.1	52.3	3.7	-1.6	-5.2	3.2	6.9	1.7	1.3	4.5	8.2	2.9
398	24.7	91.1	64.8	-11.6	12.8	78.4	-24.9	-36.2	-12.4	51.6	3.6	-1.6	-5.3	3.2	6.9	1.6	1.3	4.5	8.1	2.8
400	24.5	90.5	64.3	-11.7	12.6	77.7	-24.9	-36.3	-12.7	50.9	3.6	-1.7	-5.3	3.2	6.9	1.5	1.3	4.5	8.1	2.7
402	24.3	89.8	63.9	-11.7	12.3	77.0	-25.0	-36.4	-12.9	50.2	3.6	-1.8	-5.4	3.2	6.8	1.4	1.2	4.5	8.1	2.7
404	24.1	89.2	63.5	-11.8	12.1	76.4	-25.0	-36.5	-13.2	49.5	3.6	-1.9	-5.4	3.2	6.8	1.3	1.2	4.4	8.0	2.6
406	24.0	88.5	63.0	-11.8	11.9	75.7	-25.0	-36.5	-13.4	48.8	3.6	-1.9	-5.5	3.2	6.8	1.2	1.2	4.4	8.0	2.5
408	23.8	87.9	62.6	-11.8	11.7	75.0	-25.1	-36.6	-13.7	48.1	3.6	-2.0	-5.5	3.2	6.7	1.2	1.2	4.4	8.0	2.4
410	23.6	87.2	62.2	-11.9	11.4	74.3	-25.1	-36.7	-14.0	47.4	3.5	-2.1	-5.6	3.2	6.7	1.1	1.2	4.4	8.0	2.3
412	23.4	86.6	61.8	-11.9	11.2	73.7	-25.1	-36.7	-14.2	46.7	3.5	-2.1	-5.7	3.2	6.7	1.0	1.2	4.4	7.9	2.2
414	23.2	86.0	61.3	-12.0	11.0	73.0	-25.2	-36.8	-14.5	46.0	3.5	-2.2	-5.7	3.1	6.7	0.9	1.2	4.4	7.9	2.1
416	23.0	85.4	60.9	-12.0	10.8	72.3	-25.2	-36.9	-14.7	45.3	3.5	-2.3	-5.8	3.1	6.6	0.8	1.2	4.3	7.9	2.0
418	22.9	84.7	60.5	-12.0	10.5	71.7	-25.2	-37.0	-15.0	44.6	3.5	-2.4	-5.8	3.1	6.6	0.7	1.2	4.3	7.8	2.0
420	22.7	84.1	60.1	-12.1	10.3	71.0	-25.3	-37.0	-15.2	44.0	3.5	-2.4	-5.9	3.1	6.6	0.7	1.2	4.3	7.8	1.9
422	22.5	83.5	59.7	-12.1	10.1	70.4	-25.3	-37.1	-15.4	43.3	3.5	-2.5	-5.9	3.1	6.6	0.6	1.2	4.3	7.8	1.8
424	22.3	82.9	59.3	-12.2	9.9	69.7	-25.3	-37.2	-15.7	42.7	3.4	-2.6	-6.0	3.1	6.5	0.5	1.2	4.3	7.7	1.7
426	22.1	82.3	58.9	-12.2	9.7	69.1	-25.3	-37.2	-15.9	42.0	3.4	-2.6	-6.0	3.1	6.5	0.4	1.2	4.3	7.7	1.6
428	22.0	81.7	58.5	-12.3	9.4	68.5	-25.4	-37.3	-16.2	41.3	3.4	-2.7	-6.1	3.1	6.5	0.4	1.2	4.2	7.7	1.5
430	21.8	81.1	58.1	-12.3	9.2	67.8	-25.4	-37.4	-16.4	40.7	3.4	-2.8	-6.1	3.0	6.5	0.3	1.2	4.2	7.6	1.5
432	21.6	80.5	57.7	-12.3	9.0	67.2	-25.4	-37.5	-16.7	40.1	3.4	-2.8	-6.2	3.0	6.4	0.2	1.2	4.2	7.6	1.4
434	21.4	79.9	57.3	-12.4	8.8	66.6	-25.5	-37.5	-16.9	39.4	3.4	-2.9	-6.2	3.0	6.4	0.1	1.2	4.2	7.6	1.3
436	21.3	79.4	56.9	-12.4	8.6	66.0	-25.5	-37.6	-17.1	38.8	3.4	-3.0	-6.3	3.0	6.4	0.0	1.2	4.2	7.5	1.2
438	21.1	78.8	56.5	-12.5	8.4	65.3	-25.5	-37.7	-17.4	38.1	3.3	-3.0	-6.3	3.0	6.4	0.0	1.2	4.2	7.5	1.1
440	20.9	78.2	56.1	-12.5	8.2	64.7	-25.6	-37.7	-17.6	37.5	3.3	-3.1	-6.4	3.0	6.3	-0.1	1.2	4.2	7.5	1.0
442	20.8	77.6	55.7	-12.5	8.0	64.1	-25.6	-37.8	-17.8	36.9	3.3	-3.2	-6.4	3.0	6.3	-0.2	1.1	4.1	7.5	1.0
444	20.6	77.1	55.3	-12.6	7.8	63.5	-25.6	-37.9	-18.1	36.3	3.3	-3.2	-6.5	3.0	6.3	-0.3	1.1	4.1	7.4	0.9
446	20.4	76.5	55.0	-12.6	7.6	62.9	-25.6	-37.9	-18.3	35.7	3.3	-3.3	-6.6	3.0	6.3	-0.3	1.1	4.1	7.4	0.8
448	20.3	75.9	54.6	-12.6	7.4	62.3	-25.7	-38.0	-18.5	35.1	3.3	-3.4	-6.6	3.0	6.2	-0.4	1.1	4.1	7.4	0.7
450	20.1	75.4	54.2	-12.7	7.2	61.7	-25.7	-38.1	-18.7	34.4	3.3	-3.4	-6.6	2.9	6.2	-0.5	1.1	4.1	7.3	0.6