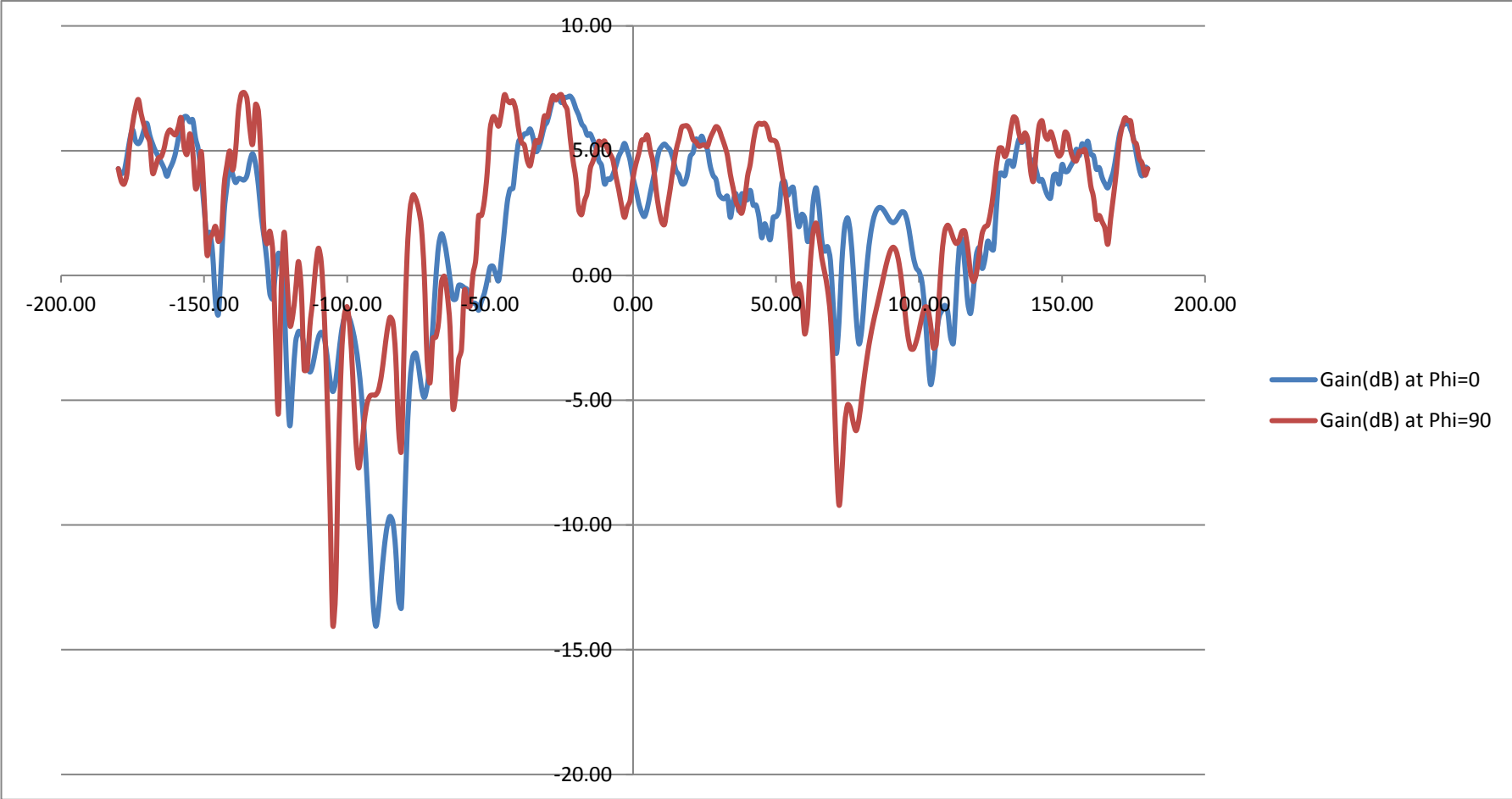


**Exhibit 5**

Telemetry Downlink Satellite Antenna Patterns

Applicant: **Space Exploration Technologies Corp. (SpaceX)**

**Table 1: Ku-band Telemetry Pattern**



theta(deg)	Gain(dB) at Phi=0	Gain(dB) at Phi=90
-180.00	4.28	4.28
-179.00	4.08	3.78
-178.00	4.15	3.66
-177.00	4.74	4.04
-176.00	5.44	5.24
-175.00	5.84	6.07
-174.00	5.40	6.68
-173.00	5.28	7.05
-172.00	5.46	6.47
-171.00	5.84	6.02
-170.00	6.10	5.61
-169.00	5.61	5.33
-168.00	5.27	4.11
-167.00	4.98	4.35
-166.00	4.77	4.71
-165.00	4.53	4.75
-164.00	4.29	5.09
-163.00	3.97	5.62
-162.00	4.27	5.83
-161.00	4.52	5.71
-160.00	4.91	5.64
-159.00	5.50	5.95
-158.00	6.03	6.31
-157.00	6.35	5.13
-156.00	6.36	4.85
-155.00	6.16	5.68
-154.00	6.24	5.00
-153.00	5.50	3.49
-152.00	5.02	3.82
-151.00	3.99	4.96
-150.00	2.73	3.16
-149.00	1.49	0.85
-148.00	1.72	1.45

-147.00	0.85	1.67
-146.00	-1.09	1.97
-145.00	-1.56	1.36
-144.00	0.42	1.60
-143.00	2.51	3.59
-142.00	3.59	4.43
-141.00	4.40	4.99
-140.00	4.04	4.22
-139.00	3.72	5.00
-138.00	3.88	6.59
-137.00	3.86	7.26
-136.00	3.83	7.33
-135.00	4.01	7.08
-134.00	4.59	5.88
-133.00	4.88	5.27
-132.00	4.47	6.85
-131.00	3.60	6.57
-130.00	2.38	4.44
-129.00	1.51	1.69
-128.00	0.54	1.27
-127.00	-0.73	1.77
-126.00	-0.93	0.96
-125.00	0.17	-2.62
-124.00	0.89	-5.52
-123.00	0.50	-0.41
-122.00	-1.06	1.73
-121.00	-4.19	-0.18
-120.00	-6.03	-1.99
-119.00	-4.28	-1.61
-118.00	-2.68	-0.60
-117.00	-2.25	0.56
-116.00	-2.32	-0.59
-115.00	-2.81	-3.79
-114.00	-3.56	-3.77

-113.00	-3.87	-2.03
-112.00	-3.58	-0.99
-111.00	-2.98	0.33
-110.00	-2.47	1.09
-109.00	-2.28	0.49
-108.00	-2.51	-1.52
-107.00	-3.22	-4.74
-106.00	-4.15	-9.02
-105.00	-4.65	-14.00
-104.00	-4.26	-12.61
-103.00	-3.26	-7.00
-102.00	-2.29	-3.42
-101.00	-1.71	-1.62
-100.00	-1.57	-1.26
-99.00	-1.77	-2.14
-98.00	-2.20	-4.08
-97.00	-2.81	-6.49
-96.00	-3.63	-7.71
-95.00	-4.77	-6.99
-94.00	-6.30	-5.85
-93.00	-8.27	-5.13
-92.00	-10.63	-4.83
-91.00	-12.94	-4.79
-90.00	-14.05	-4.79
-89.00	-13.42	-4.58
-88.00	-12.10	-4.01
-87.00	-10.91	-3.13
-86.00	-10.05	-2.23
-85.00	-9.65	-1.68
-84.00	-9.88	-1.87
-83.00	-11.00	-3.25
-82.00	-13.01	-6.14
-81.00	-13.31	-6.99
-80.00	-9.75	-2.59

-79.00	-6.36	0.85
-78.00	-4.25	2.64
-77.00	-3.25	3.22
-76.00	-3.11	3.07
-75.00	-3.64	2.66
-74.00	-4.49	1.91
-73.00	-4.89	0.02
-72.00	-4.45	-3.40
-71.00	-3.52	-4.30
-70.00	-2.02	-2.51
-69.00	-0.17	-2.48
-68.00	1.20	-1.86
-67.00	1.67	-0.27
-66.00	1.35	-0.03
-65.00	0.68	-0.73
-64.00	-0.15	-2.08
-63.00	-0.93	-5.30
-62.00	-0.94	-4.76
-61.00	-0.40	-3.37
-60.00	-0.40	-2.95
-59.00	-0.49	-0.62
-58.00	-0.57	-1.23
-57.00	-1.03	-1.23
-56.00	-1.10	0.03
-55.00	-1.13	0.63
-54.00	-1.40	2.40
-53.00	-1.03	2.40
-52.00	-0.72	2.99
-51.00	-0.20	4.12
-50.00	0.33	5.85
-49.00	0.37	6.35
-48.00	0.05	6.24
-47.00	-0.20	5.99
-46.00	0.70	6.53

-45.00	1.81	7.24
-44.00	2.92	7.02
-43.00	3.46	6.92
-42.00	3.50	6.99
-41.00	4.53	6.64
-40.00	5.37	5.85
-39.00	5.49	5.33
-38.00	5.67	5.22
-37.00	5.70	4.61
-36.00	5.87	4.40
-35.00	5.54	4.92
-34.00	4.97	5.39
-33.00	5.11	5.34
-32.00	5.51	5.74
-31.00	5.98	6.39
-30.00	6.17	6.35
-29.00	6.62	6.83
-28.00	7.04	7.21
-27.00	7.07	7.03
-26.00	7.09	7.20
-25.00	6.93	7.23
-24.00	7.12	6.86
-23.00	7.14	6.61
-22.00	7.18	5.54
-21.00	7.02	4.61
-20.00	6.68	3.87
-19.00	6.43	2.63
-18.00	6.08	2.43
-17.00	5.92	2.98
-16.00	5.62	3.33
-15.00	5.67	4.27
-14.00	5.43	4.58
-13.00	5.11	4.96
-12.00	4.60	5.38

-11.00	4.40	5.22
-10.00	3.67	5.39
-9.00	3.86	5.08
-8.00	3.85	4.87
-7.00	4.06	4.61
-6.00	4.39	3.96
-5.00	4.78	3.43
-4.00	5.01	2.79
-3.00	5.29	2.33
-2.00	4.99	2.74
-1.00	4.59	3.02
0.00	3.91	3.91
1.00	3.44	4.47
2.00	2.89	4.89
3.00	2.53	5.41
4.00	2.36	5.44
5.00	2.71	5.62
6.00	3.28	5.03
7.00	3.84	4.51
8.00	4.41	3.48
9.00	4.97	2.67
10.00	5.17	2.15
11.00	5.26	2.05
12.00	5.15	2.77
13.00	5.01	3.48
14.00	4.67	4.28
15.00	4.20	4.99
16.00	4.03	5.45
17.00	3.69	5.94
18.00	3.69	5.99
19.00	4.05	5.99
20.00	4.76	5.80
21.00	4.93	5.44
22.00	5.46	5.35



23.00	5.31	5.18
24.00	5.58	5.21
25.00	5.29	5.23
26.00	5.04	5.17
27.00	4.38	5.51
28.00	4.00	5.76
29.00	3.84	5.96
30.00	3.27	5.87
31.00	3.11	5.54
32.00	3.08	5.21
33.00	3.17	4.80
34.00	2.33	4.06
35.00	2.97	3.50
36.00	3.27	2.95
37.00	2.59	2.70
38.00	3.27	2.50
39.00	3.08	3.02
40.00	3.04	3.95
41.00	3.41	4.48
42.00	2.82	5.32
43.00	2.82	5.92
44.00	2.35	6.10
45.00	1.51	6.05
46.00	2.07	6.10
47.00	1.74	5.90
48.00	1.44	5.45
49.00	2.32	5.42
50.00	2.35	5.35
51.00	2.60	4.91
52.00	3.69	4.16
53.00	3.78	3.48
54.00	3.21	2.69
55.00	3.45	1.37
56.00	3.52	-0.40

57.00	2.55	-0.80
58.00	1.95	-0.33
59.00	2.45	-0.90
60.00	2.30	-2.34
61.00	1.37	-1.66
62.00	1.62	0.53
63.00	2.99	1.78
64.00	3.51	2.10
65.00	2.74	1.53
66.00	1.42	0.70
67.00	0.97	0.11
68.00	1.15	-0.55
69.00	0.60	-1.64
70.00	-1.24	-3.78
71.00	-3.12	-7.01
72.00	-1.89	-9.20
73.00	0.50	-7.93
74.00	1.95	-5.98
75.00	2.31	-5.19
76.00	1.67	-5.32
77.00	0.20	-5.90
78.00	-1.66	-6.22
79.00	-2.74	-5.75
80.00	-2.12	-4.85
81.00	-0.67	-3.94
82.00	0.66	-3.14
83.00	1.62	-2.45
84.00	2.24	-1.87
85.00	2.58	-1.37
86.00	2.72	-0.87
87.00	2.69	-0.35
88.00	2.55	0.17
89.00	2.35	0.65
90.00	2.18	1.00

91.00	2.11	1.13
92.00	2.21	0.98
93.00	2.40	0.48
94.00	2.55	-0.34
95.00	2.50	-1.38
96.00	2.13	-2.36
97.00	1.46	-2.91
98.00	0.73	-2.95
99.00	0.31	-2.66
100.00	0.15	-2.20
101.00	-0.25	-1.67
102.00	-1.34	-1.27
103.00	-3.08	-1.31
104.00	-4.36	-1.95
105.00	-3.81	-2.91
106.00	-2.45	-2.76
107.00	-1.67	-0.93
108.00	-1.41	0.85
109.00	-1.20	1.78
110.00	-1.44	2.02
111.00	-2.47	1.81
112.00	-2.71	1.48
113.00	-0.80	1.28
114.00	1.07	1.40
115.00	1.46	1.76
116.00	0.40	1.78
117.00	-1.06	1.10
118.00	-1.52	0.12
119.00	-0.60	-0.24
120.00	0.80	0.05
121.00	1.11	0.85
122.00	0.29	1.65
123.00	0.62	1.94
124.00	1.37	2.02

125.00	1.11	2.53
126.00	1.03	3.33
127.00	2.61	4.36
128.00	4.06	5.09
129.00	4.10	5.10
130.00	4.01	4.76
131.00	4.55	5.06
132.00	4.58	5.81
133.00	4.38	6.34
134.00	5.01	6.26
135.00	5.47	5.66
136.00	5.33	5.35
137.00	5.67	5.71
138.00	5.25	5.47
139.00	4.47	4.20
140.00	4.64	3.78
141.00	4.20	5.03
142.00	3.79	6.02
143.00	3.84	6.20
144.00	3.49	5.62
145.00	3.19	5.46
146.00	3.10	5.76
147.00	3.99	5.45
148.00	4.06	5.01
149.00	3.67	4.78
150.00	4.44	4.97
151.00	4.18	5.73
152.00	4.18	5.61
153.00	4.38	5.00
154.00	4.61	4.66
155.00	5.06	4.59
156.00	4.79	4.97
157.00	5.28	4.95
158.00	5.07	5.04

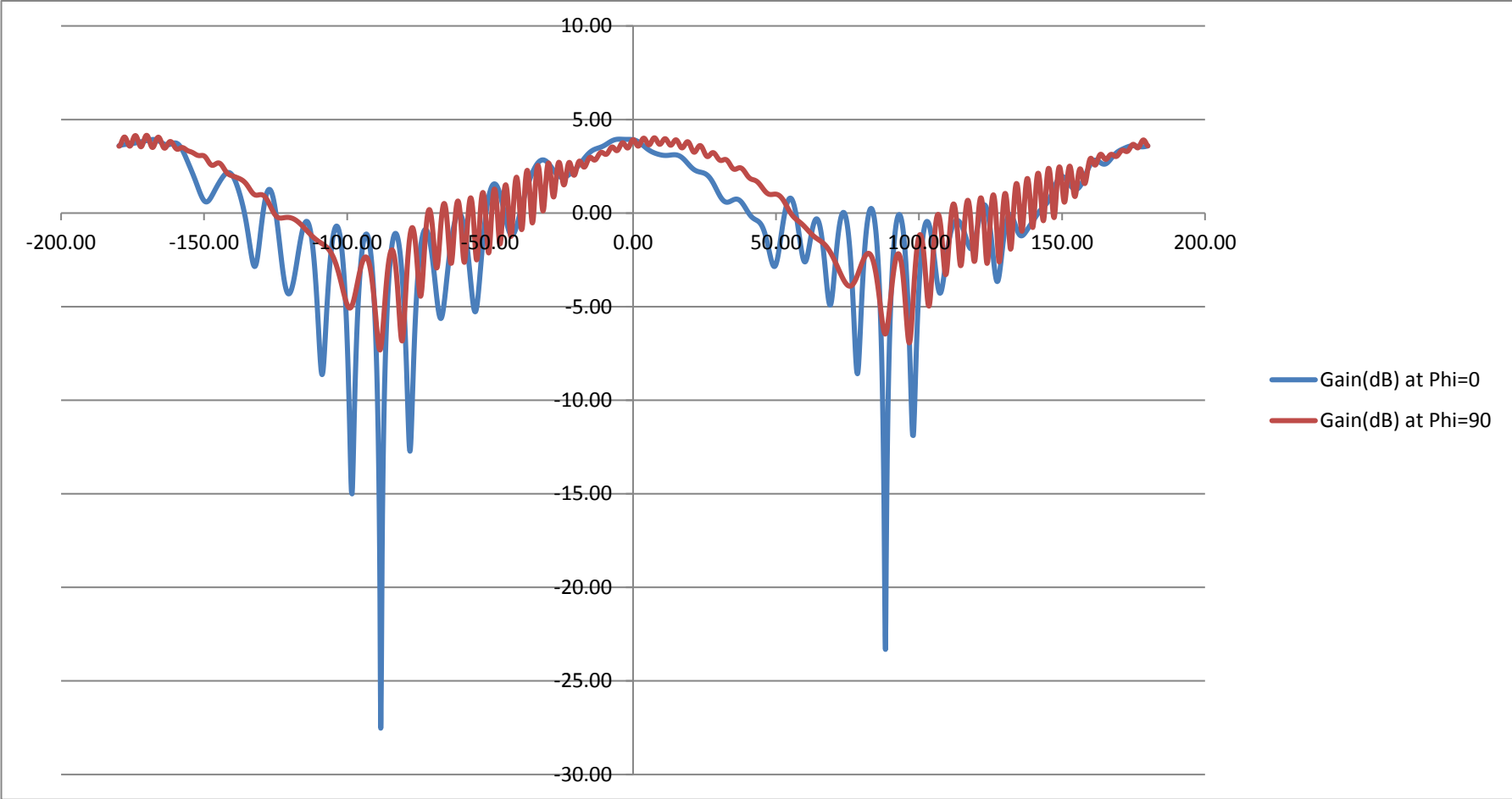
159.00	5.38	4.50
160.00	4.87	3.62
161.00	4.80	3.14
162.00	4.26	2.26
163.00	4.32	2.41
164.00	3.93	2.15
165.00	3.67	1.88
166.00	3.51	1.25
167.00	3.84	2.28
168.00	4.20	3.19
169.00	4.89	4.19
170.00	5.60	5.34
171.00	5.99	5.95
172.00	6.06	6.31
173.00	6.13	6.21
174.00	5.84	6.19
175.00	5.48	5.41
176.00	4.85	5.27
177.00	4.27	4.69
178.00	3.99	4.49
179.00	4.33	4.02
180.00	4.28	4.28

**Exhibit 5**

Telemetry Downlink Satellite Antenna Patterns

Applicant: **Space Exploration Technologies Corp. (SpaceX)**

**Table 2: X-band Telemetry Pattern**



theta(deg)	Gain(dB) at Phi=0	Gain(dB) at Phi=90
-179.75	3.60	3.57
-179.50	3.61	3.60
-179.25	3.62	3.66
-179.00	3.63	3.74
-178.75	3.64	3.84
-178.50	3.65	3.93
-178.25	3.65	4.01
-178.00	3.66	4.05
-177.75	3.66	4.06
-177.50	3.67	4.03
-177.25	3.67	3.96
-177.00	3.68	3.87
-176.75	3.68	3.76
-176.50	3.68	3.67
-176.25	3.69	3.60
-176.00	3.69	3.58
-175.75	3.70	3.60
-175.50	3.70	3.66
-175.25	3.71	3.76
-175.00	3.72	3.87
-174.75	3.72	3.98
-174.50	3.73	4.07
-174.25	3.74	4.13
-174.00	3.75	4.14
-173.75	3.75	4.11
-173.50	3.76	4.04
-173.25	3.77	3.95
-173.00	3.78	3.83
-172.75	3.79	3.71
-172.50	3.80	3.62
-172.25	3.80	3.56
-172.00	3.81	3.55
-171.75	3.82	3.58



-171.50	3.83	3.67
-171.25	3.83	3.78
-171.00	3.84	3.90
-170.75	3.85	4.01
-170.50	3.86	4.10
-170.25	3.87	4.15
-170.00	3.87	4.15
-169.75	3.88	4.11
-169.50	3.89	4.03
-169.25	3.90	3.92
-169.00	3.91	3.80
-168.75	3.92	3.68
-168.50	3.92	3.58
-168.25	3.93	3.52
-168.00	3.93	3.50
-167.75	3.93	3.53
-167.50	3.93	3.60
-167.25	3.93	3.69
-167.00	3.92	3.80
-166.75	3.91	3.90
-166.50	3.90	3.98
-166.25	3.88	4.04
-166.00	3.86	4.05
-165.75	3.84	4.04
-165.50	3.82	3.98
-165.25	3.80	3.90
-165.00	3.78	3.80
-164.75	3.75	3.70
-164.50	3.73	3.60
-164.25	3.71	3.53
-164.00	3.69	3.48
-163.75	3.67	3.47
-163.50	3.66	3.49
-163.25	3.65	3.54

-163.00	3.65	3.60
-162.75	3.65	3.67
-162.50	3.65	3.74
-162.25	3.66	3.79
-162.00	3.67	3.81
-161.75	3.68	3.82
-161.50	3.70	3.81
-161.25	3.71	3.77
-161.00	3.72	3.72
-160.75	3.74	3.66
-160.50	3.74	3.59
-160.25	3.75	3.53
-160.00	3.75	3.48
-159.75	3.74	3.44
-159.50	3.72	3.42
-159.25	3.70	3.41
-159.00	3.67	3.42
-158.75	3.64	3.43
-158.50	3.59	3.45
-158.25	3.54	3.47
-158.00	3.48	3.49
-157.75	3.41	3.50
-157.50	3.34	3.50
-157.25	3.27	3.48
-157.00	3.19	3.47
-156.75	3.10	3.44
-156.50	3.02	3.41
-156.25	2.93	3.38
-156.00	2.84	3.36
-155.75	2.75	3.34
-155.50	2.66	3.32
-155.25	2.57	3.30
-155.00	2.48	3.29
-154.75	2.39	3.28

-154.50	2.30	3.27
-154.25	2.20	3.25
-154.00	2.11	3.23
-153.75	2.02	3.21
-153.50	1.92	3.19
-153.25	1.82	3.16
-153.00	1.72	3.14
-152.75	1.62	3.12
-152.50	1.52	3.10
-152.25	1.41	3.09
-152.00	1.31	3.08
-151.75	1.21	3.07
-151.50	1.11	3.07
-151.25	1.01	3.07
-151.00	0.93	3.08
-150.75	0.84	3.08
-150.50	0.77	3.08
-150.25	0.71	3.07
-150.00	0.66	3.05
-149.75	0.63	3.02
-149.50	0.60	2.99
-149.25	0.60	2.94
-149.00	0.60	2.88
-148.75	0.62	2.82
-148.50	0.65	2.76
-148.25	0.69	2.70
-148.00	0.74	2.64
-147.75	0.80	2.60
-147.50	0.86	2.57
-147.25	0.93	2.55
-147.00	1.00	2.55
-146.75	1.07	2.56
-146.50	1.14	2.57
-146.25	1.21	2.60

-146.00	1.29	2.62
-145.75	1.36	2.64
-145.50	1.43	2.66
-145.25	1.49	2.68
-145.00	1.56	2.68
-144.75	1.62	2.67
-144.50	1.69	2.66
-144.25	1.75	2.63
-144.00	1.81	2.59
-143.75	1.87	2.54
-143.50	1.92	2.49
-143.25	1.97	2.43
-143.00	2.02	2.37
-142.75	2.06	2.31
-142.50	2.10	2.25
-142.25	2.13	2.20
-142.00	2.15	2.15
-141.75	2.16	2.11
-141.50	2.17	2.08
-141.25	2.16	2.06
-141.00	2.15	2.04
-140.75	2.12	2.02
-140.50	2.09	2.01
-140.25	2.04	1.99
-140.00	1.99	1.98
-139.75	1.92	1.97
-139.50	1.85	1.95
-139.25	1.77	1.94
-139.00	1.68	1.92
-138.75	1.58	1.91
-138.50	1.47	1.90
-138.25	1.36	1.88
-138.00	1.25	1.86
-137.75	1.12	1.85

-137.50	1.00	1.83
-137.25	0.86	1.81
-137.00	0.72	1.79
-136.75	0.57	1.77
-136.50	0.42	1.74
-136.25	0.25	1.71
-136.00	0.08	1.68
-135.75	-0.11	1.64
-135.50	-0.31	1.60
-135.25	-0.52	1.55
-135.00	-0.74	1.50
-134.75	-0.98	1.45
-134.50	-1.22	1.39
-134.25	-1.47	1.33
-134.00	-1.72	1.27
-133.75	-1.97	1.22
-133.50	-2.21	1.16
-133.25	-2.43	1.11
-133.00	-2.61	1.06
-132.75	-2.75	1.03
-132.50	-2.83	1.00
-132.25	-2.85	0.98
-132.00	-2.80	0.96
-131.75	-2.69	0.96
-131.50	-2.51	0.96
-131.25	-2.27	0.96
-131.00	-1.99	0.97
-130.75	-1.69	0.98
-130.50	-1.36	0.98
-130.25	-1.04	0.99
-130.00	-0.71	0.98
-129.75	-0.40	0.98
-129.50	-0.10	0.96
-129.25	0.17	0.94

-129.00	0.41	0.91
-128.75	0.63	0.88
-128.50	0.82	0.83
-128.25	0.97	0.78
-128.00	1.09	0.72
-127.75	1.18	0.65
-127.50	1.24	0.58
-127.25	1.26	0.50
-127.00	1.26	0.42
-126.75	1.21	0.35
-126.50	1.14	0.27
-126.25	1.04	0.19
-126.00	0.90	0.11
-125.75	0.74	0.04
-125.50	0.54	-0.02
-125.25	0.32	-0.08
-125.00	0.08	-0.13
-124.75	-0.19	-0.17
-124.50	-0.48	-0.20
-124.25	-0.78	-0.23
-124.00	-1.10	-0.25
-123.75	-1.43	-0.26
-123.50	-1.77	-0.27
-123.25	-2.10	-0.27
-123.00	-2.43	-0.27
-122.75	-2.75	-0.26
-122.50	-3.05	-0.26
-122.25	-3.32	-0.25
-122.00	-3.57	-0.25
-121.75	-3.79	-0.24
-121.50	-3.97	-0.24
-121.25	-4.11	-0.23
-121.00	-4.22	-0.23
-120.75	-4.29	-0.23

-120.50	-4.32	-0.23
-120.25	-4.31	-0.24
-120.00	-4.27	-0.24
-119.75	-4.20	-0.25
-119.50	-4.11	-0.26
-119.25	-3.98	-0.27
-119.00	-3.83	-0.29
-118.75	-3.66	-0.31
-118.50	-3.46	-0.33
-118.25	-3.25	-0.35
-118.00	-3.03	-0.37
-117.75	-2.80	-0.40
-117.50	-2.56	-0.43
-117.25	-2.32	-0.46
-117.00	-2.08	-0.49
-116.75	-1.84	-0.52
-116.50	-1.62	-0.56
-116.25	-1.40	-0.59
-116.00	-1.21	-0.63
-115.75	-1.02	-0.67
-115.50	-0.86	-0.71
-115.25	-0.73	-0.75
-115.00	-0.61	-0.79
-114.75	-0.53	-0.83
-114.50	-0.47	-0.87
-114.25	-0.44	-0.91
-114.00	-0.45	-0.95
-113.75	-0.49	-0.99
-113.50	-0.56	-1.03
-113.25	-0.67	-1.07
-113.00	-0.82	-1.11
-112.75	-1.00	-1.15
-112.50	-1.23	-1.19
-112.25	-1.51	-1.23

-112.00	-1.83	-1.26
-111.75	-2.19	-1.30
-111.50	-2.61	-1.33
-111.25	-3.08	-1.36
-111.00	-3.60	-1.40
-110.75	-4.18	-1.43
-110.50	-4.80	-1.45
-110.25	-5.47	-1.48
-110.00	-6.17	-1.51
-109.75	-6.87	-1.53
-109.50	-7.53	-1.56
-109.25	-8.09	-1.58
-109.00	-8.48	-1.61
-108.75	-8.63	-1.63
-108.50	-8.52	-1.66
-108.25	-8.16	-1.69
-108.00	-7.62	-1.71
-107.75	-6.97	-1.74
-107.50	-6.28	-1.77
-107.25	-5.58	-1.81
-107.00	-4.91	-1.84
-106.75	-4.28	-1.88
-106.50	-3.70	-1.93
-106.25	-3.18	-1.98
-106.00	-2.70	-2.03
-105.75	-2.29	-2.09
-105.50	-1.92	-2.15
-105.25	-1.61	-2.22
-105.00	-1.34	-2.30
-104.75	-1.12	-2.38
-104.50	-0.95	-2.47
-104.25	-0.82	-2.57
-104.00	-0.74	-2.68
-103.75	-0.70	-2.79



-103.50	-0.70	-2.91
-103.25	-0.76	-3.04
-103.00	-0.85	-3.17
-102.75	-1.00	-3.31
-102.50	-1.19	-3.46
-102.25	-1.43	-3.61
-102.00	-1.73	-3.76
-101.75	-2.08	-3.92
-101.50	-2.49	-4.08
-101.25	-2.97	-4.23
-101.00	-3.53	-4.38
-100.75	-4.16	-4.53
-100.50	-4.89	-4.66
-100.25	-5.73	-4.78
-100.00	-6.69	-4.89
-99.75	-7.79	-4.97
-99.50	-9.05	-5.03
-99.25	-10.48	-5.07
-99.00	-12.06	-5.08
-98.75	-13.64	-5.05
-98.50	-14.81	-5.00
-98.25	-14.99	-4.93
-98.00	-14.06	-4.82
-97.75	-12.55	-4.69
-97.50	-10.96	-4.54
-97.25	-9.49	-4.38
-97.00	-8.19	-4.20
-96.75	-7.06	-4.01
-96.50	-6.07	-3.82
-96.25	-5.22	-3.63
-96.00	-4.47	-3.45
-95.75	-3.82	-3.26
-95.50	-3.26	-3.09
-95.25	-2.78	-2.93

-95.00	-2.37	-2.79
-94.75	-2.02	-2.66
-94.50	-1.74	-2.55
-94.25	-1.51	-2.46
-94.00	-1.33	-2.40
-93.75	-1.21	-2.36
-93.50	-1.14	-2.34
-93.25	-1.12	-2.36
-93.00	-1.15	-2.40
-92.75	-1.23	-2.47
-92.50	-1.37	-2.57
-92.25	-1.56	-2.71
-92.00	-1.81	-2.88
-91.75	-2.11	-3.09
-91.50	-2.48	-3.33
-91.25	-2.92	-3.61
-91.00	-3.44	-3.93
-90.75	-4.05	-4.28
-90.50	-4.76	-4.67
-90.25	-5.59	-5.08
-90.00	-6.56	-5.51
-89.75	-7.72	-5.95
-89.50	-9.11	-6.37
-89.25	-10.82	-6.75
-89.00	-13.01	-7.06
-88.75	-15.99	-7.26
-88.50	-20.46	-7.32
-88.25	-27.43	-7.23
-88.00	-24.20	-7.00
-87.75	-18.26	-6.65
-87.50	-14.57	-6.21
-87.25	-11.98	-5.71
-87.00	-10.02	-5.20
-86.75	-8.46	-4.69

-86.50	-7.18	-4.20
-86.25	-6.11	-3.75
-86.00	-5.20	-3.33
-85.75	-4.43	-2.97
-85.50	-3.76	-2.66
-85.25	-3.19	-2.40
-85.00	-2.70	-2.21
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-84.25	-1.67	-1.97
-84.00	-1.44	-2.01
-83.75	-1.28	-2.13
-83.50	-1.16	-2.30
-83.25	-1.10	-2.55
-83.00	-1.09	-2.87
-82.75	-1.13	-3.25
-82.50	-1.21	-3.71
-82.25	-1.35	-4.23
-82.00	-1.54	-4.79
-81.75	-1.79	-5.38
-81.50	-2.09	-5.94
-81.25	-2.45	-6.42
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-80.75	-3.37	-6.84
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-80.25	-4.59	-6.24
-80.00	-5.33	-5.66
-79.75	-6.16	-4.98
-79.50	-7.10	-4.27
-79.25	-8.15	-3.59
-79.00	-9.29	-2.96
-78.75	-10.47	-2.40
-78.50	-11.60	-1.92
-78.25	-12.44	-1.52

-78.00	-12.72	-1.21
-77.75	-12.35	-0.98
-77.50	-11.45	-0.84
-77.25	-10.32	-0.78
-77.00	-9.15	-0.81
-76.75	-8.03	-0.92
-76.50	-7.01	-1.12
-76.25	-6.09	-1.41
-76.00	-5.28	-1.77
-75.75	-4.56	-2.20
-75.50	-3.92	-2.69
-75.25	-3.36	-3.21
-75.00	-2.88	-3.71
-74.75	-2.45	-4.13
-74.50	-2.09	-4.39
-74.25	-1.78	-4.44
-74.00	-1.52	-4.25
-73.75	-1.31	-3.86
-73.50	-1.14	-3.32
-73.25	-1.01	-2.71
-73.00	-0.93	-2.10
-72.75	-0.88	-1.53
-72.50	-0.88	-1.02
-72.25	-0.91	-0.59
-72.00	-0.97	-0.25
-71.75	-1.07	0.00
-71.50	-1.20	0.14
-71.25	-1.37	0.19
-71.00	-1.56	0.13
-70.75	-1.79	-0.02
-70.50	-2.04	-0.26
-70.25	-2.33	-0.59
-70.00	-2.63	-1.00
-69.75	-2.96	-1.46

-69.50	-3.30	-1.95
-69.25	-3.66	-2.40
-69.00	-4.02	-2.75
-68.75	-4.37	-2.93
-68.50	-4.70	-2.90
-68.25	-5.01	-2.66
-68.00	-5.26	-2.25
-67.75	-5.46	-1.74
-67.50	-5.59	-1.21
-67.25	-5.63	-0.71
-67.00	-5.60	-0.27
-66.75	-5.48	0.08
-66.50	-5.29	0.33
-66.25	-5.03	0.48
-66.00	-4.74	0.51
-65.75	-4.40	0.43
-65.50	-4.05	0.23
-65.25	-3.69	-0.07
-65.00	-3.33	-0.48
-64.75	-2.97	-0.96
-64.50	-2.63	-1.49
-64.25	-2.30	-2.01
-64.00	-1.99	-2.43
-63.75	-1.70	-2.68
-63.50	-1.43	-2.67
-63.25	-1.18	-2.41
-63.00	-0.95	-1.97
-62.75	-0.75	-1.42
-62.50	-0.58	-0.86
-62.25	-0.42	-0.34
-62.00	-0.29	0.08
-61.75	-0.19	0.40
-61.50	-0.11	0.59
-61.25	-0.06	0.65

-61.00	-0.03	0.57
-60.75	-0.02	0.37
-60.50	-0.05	0.03
-60.25	-0.10	-0.42
-60.00	-0.18	-0.96
-59.75	-0.28	-1.55
-59.50	-0.42	-2.09
-59.25	-0.58	-2.49
-59.00	-0.77	-2.63
-58.75	-0.99	-2.47
-58.50	-1.24	-2.05
-58.25	-1.52	-1.47
-58.00	-1.83	-0.85
-57.75	-2.16	-0.28
-57.50	-2.52	0.20
-57.25	-2.90	0.55
-57.00	-3.29	0.76
-56.75	-3.69	0.81
-56.50	-4.08	0.72
-56.25	-4.44	0.47
-56.00	-4.77	0.07
-55.75	-5.03	-0.45
-55.50	-5.20	-1.06
-55.25	-5.28	-1.69
-55.00	-5.24	-2.21
-54.75	-5.09	-2.50
-54.50	-4.84	-2.44
-54.25	-4.51	-2.06
-54.00	-4.12	-1.46
-53.75	-3.70	-0.79
-53.50	-3.25	-0.15
-53.25	-2.80	0.39
-53.00	-2.35	0.79
-52.75	-1.92	1.03

-52.50	-1.51	1.10
-52.25	-1.12	1.01
-52.00	-0.76	0.75
-51.75	-0.42	0.33
-51.50	-0.11	-0.22
-51.25	0.16	-0.85
-51.00	0.42	-1.46
-50.75	0.64	-1.94
-50.50	0.84	-2.13
-50.25	1.01	-1.96
-50.00	1.16	-1.48
-49.75	1.28	-0.84
-49.50	1.38	-0.18
-49.25	1.46	0.41
-49.00	1.51	0.86
-48.75	1.55	1.16
-48.50	1.56	1.28
-48.25	1.55	1.23
-48.00	1.52	1.00
-47.75	1.48	0.62
-47.50	1.41	0.10
-47.25	1.33	-0.50
-47.00	1.23	-1.08
-46.75	1.12	-1.51
-46.50	0.99	-1.65
-46.25	0.85	-1.44
-46.00	0.70	-0.95
-45.75	0.54	-0.33
-45.50	0.37	0.30
-45.25	0.20	0.84
-45.00	0.02	1.23
-44.75	-0.16	1.46
-44.50	-0.33	1.51
-44.25	-0.50	1.38

-44.00	-0.65	1.07
-43.75	-0.79	0.61
-43.50	-0.92	0.05
-43.25	-1.02	-0.54
-43.00	-1.10	-1.02
-42.75	-1.15	-1.25
-42.50	-1.18	-1.13
-42.25	-1.18	-0.69
-42.00	-1.15	-0.08
-41.75	-1.10	0.57
-41.50	-1.03	1.14
-41.25	-0.94	1.57
-41.00	-0.83	1.84
-40.75	-0.71	1.92
-40.50	-0.58	1.81
-40.25	-0.44	1.53
-40.00	-0.29	1.08
-39.75	-0.14	0.51
-39.50	0.01	-0.10
-39.25	0.16	-0.61
-39.00	0.31	-0.88
-38.75	0.46	-0.79
-38.50	0.61	-0.37
-38.25	0.75	0.25
-38.00	0.89	0.90
-37.75	1.02	1.49
-37.50	1.16	1.93
-37.25	1.28	2.20
-37.00	1.40	2.28
-36.75	1.52	2.18
-36.50	1.64	1.89
-36.25	1.74	1.44
-36.00	1.85	0.86
-35.75	1.95	0.25



-35.50	2.05	-0.26
-35.25	2.14	-0.52
-35.00	2.22	-0.43
-34.75	2.31	-0.01
-34.50	2.38	0.60
-34.25	2.46	1.23
-34.00	2.52	1.80
-33.75	2.58	2.22
-33.50	2.64	2.47
-33.25	2.69	2.55
-33.00	2.73	2.44
-32.75	2.76	2.16
-32.50	2.79	1.74
-32.25	2.81	1.22
-32.00	2.83	0.70
-31.75	2.84	0.29
-31.50	2.84	0.11
-31.25	2.84	0.23
-31.00	2.82	0.61
-30.75	2.81	1.12
-30.50	2.78	1.65
-30.25	2.75	2.12
-30.00	2.72	2.45
-29.75	2.68	2.64
-29.50	2.64	2.67
-29.25	2.59	2.55
-29.00	2.54	2.30
-28.75	2.49	1.94
-28.50	2.43	1.54
-28.25	2.38	1.17
-28.00	2.32	0.92
-27.75	2.27	0.86
-27.50	2.22	1.00
-27.25	2.17	1.31

-27.00	2.12	1.69
-26.75	2.08	2.07
-26.50	2.04	2.39
-26.25	2.00	2.61
-26.00	1.97	2.71
-25.75	1.95	2.69
-25.50	1.93	2.56
-25.25	1.92	2.35
-25.00	1.91	2.08
-24.75	1.90	1.82
-24.50	1.90	1.61
-24.25	1.91	1.51
-24.00	1.92	1.53
-23.75	1.93	1.68
-23.50	1.95	1.90
-23.25	1.97	2.16
-23.00	1.99	2.39
-22.75	2.01	2.57
-22.50	2.04	2.68
-22.25	2.07	2.71
-22.00	2.10	2.65
-21.75	2.13	2.54
-21.50	2.16	2.39
-21.25	2.20	2.23
-21.00	2.23	2.10
-20.75	2.27	2.03
-20.50	2.30	2.03
-20.25	2.34	2.10
-20.00	2.38	2.23
-19.75	2.42	2.38
-19.50	2.46	2.53
-19.25	2.51	2.66
-19.00	2.55	2.74
-18.75	2.60	2.78

-18.50	2.64	2.77
-18.25	2.69	2.72
-18.00	2.74	2.64
-17.75	2.79	2.57
-17.50	2.83	2.50
-17.25	2.88	2.46
-17.00	2.93	2.46
-16.75	2.98	2.50
-16.50	3.02	2.57
-16.25	3.07	2.66
-16.00	3.11	2.75
-15.75	3.15	2.84
-15.50	3.19	2.91
-15.25	3.22	2.96
-15.00	3.26	2.98
-14.75	3.29	2.97
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-14.25	3.34	2.91
-14.00	3.36	2.87
-13.75	3.38	2.84
-13.50	3.40	2.83
-13.25	3.42	2.84
-13.00	3.43	2.87
-12.75	3.45	2.92
-12.50	3.46	2.99
-12.25	3.47	3.06
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-11.75	3.50	3.18
-11.50	3.51	3.22
-11.25	3.52	3.24
-11.00	3.54	3.25
-10.75	3.56	3.24
-10.50	3.58	3.22
-10.25	3.60	3.19

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-9.75	3.64	3.14
-9.50	3.66	3.14
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-8.75	3.74	3.23
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-8.25	3.78	3.37
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-7.50	3.85	3.52
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-6.75	3.90	3.48
-6.50	3.91	3.44
-6.25	3.92	3.39
-6.00	3.93	3.35
-5.75	3.94	3.34
-5.50	3.94	3.34
-5.25	3.95	3.38
-5.00	3.95	3.44
-4.75	3.95	3.51
-4.50	3.95	3.59
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-1.75	3.94	3.48

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-1.25	3.94	3.59
-1.00	3.94	3.68
-0.75	3.93	3.77
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-0.25	3.93	3.90
0.00	3.92	3.92
0.25	3.91	3.91
0.50	3.90	3.87
0.75	3.89	3.80
1.00	3.88	3.73
1.25	3.86	3.66
1.50	3.84	3.60
1.75	3.82	3.58
2.00	3.79	3.59
2.25	3.77	3.64
2.50	3.74	3.71
2.75	3.71	3.79
3.00	3.68	3.87
3.25	3.65	3.94
3.50	3.62	3.99
3.75	3.58	4.00
4.00	3.55	3.99
4.25	3.52	3.94
4.50	3.49	3.88
4.75	3.46	3.80
5.00	3.43	3.73
5.25	3.40	3.67
5.50	3.37	3.65
5.75	3.35	3.65
6.00	3.32	3.69
6.25	3.30	3.75
6.50	3.28	3.83
6.75	3.26	3.91

7.00	3.24	3.97
7.25	3.23	4.01
7.50	3.21	4.02
7.75	3.20	4.00
8.00	3.18	3.95
8.25	3.17	3.89
8.50	3.16	3.82
8.75	3.15	3.75
9.00	3.13	3.70
9.25	3.12	3.68
9.50	3.12	3.68
9.75	3.11	3.71
10.00	3.10	3.76
10.25	3.09	3.82
10.50	3.09	3.88
10.75	3.08	3.93
11.00	3.08	3.97
11.25	3.08	3.97
11.50	3.08	3.95
11.75	3.08	3.91
12.00	3.08	3.85
12.25	3.08	3.79
12.50	3.09	3.72
12.75	3.09	3.66
13.00	3.10	3.63
13.25	3.10	3.63
13.50	3.11	3.65
13.75	3.11	3.70
14.00	3.11	3.75
14.25	3.12	3.82
14.50	3.12	3.87
14.75	3.11	3.90
15.00	3.11	3.91
15.25	3.10	3.90

15.50	3.10	3.85
15.75	3.08	3.79
16.00	3.07	3.72
16.25	3.05	3.64
16.50	3.03	3.57
16.75	3.00	3.51
17.00	2.98	3.49
17.25	2.95	3.49
17.50	2.91	3.51
17.75	2.88	3.56
18.00	2.84	3.63
18.25	2.80	3.69
18.50	2.76	3.75
18.75	2.71	3.79
19.00	2.67	3.81
19.25	2.63	3.80
19.50	2.58	3.77
19.75	2.54	3.71
20.00	2.50	3.62
20.25	2.46	3.53
20.50	2.42	3.44
20.75	2.39	3.35
21.00	2.36	3.29
21.25	2.33	3.26
21.50	2.30	3.25
21.75	2.28	3.28
22.00	2.26	3.33
22.25	2.24	3.40
22.50	2.23	3.46
22.75	2.22	3.53
23.00	2.21	3.57
23.25	2.20	3.60
23.50	2.19	3.60
23.75	2.18	3.58

24.00	2.17	3.54
24.25	2.16	3.47
24.50	2.15	3.39
24.75	2.14	3.31
25.00	2.12	3.22
25.25	2.10	3.14
25.50	2.08	3.08
25.75	2.05	3.04
26.00	2.02	3.02
26.25	1.98	3.03
26.50	1.94	3.05
26.75	1.90	3.09
27.00	1.85	3.13
27.25	1.80	3.17
27.50	1.74	3.21
27.75	1.67	3.23
28.00	1.61	3.23
28.25	1.54	3.21
28.50	1.47	3.18
28.75	1.39	3.14
29.00	1.32	3.08
29.25	1.24	3.02
29.50	1.16	2.96
29.75	1.09	2.91
30.00	1.02	2.87
30.25	0.95	2.84
30.50	0.88	2.82
30.75	0.82	2.81
31.00	0.77	2.81
31.25	0.72	2.82
31.50	0.68	2.84
31.75	0.65	2.85
32.00	0.62	2.86
32.25	0.60	2.86



32.50	0.59	2.86
32.75	0.58	2.83
33.00	0.58	2.80
33.25	0.59	2.75
33.50	0.60	2.70
33.75	0.61	2.63
34.00	0.63	2.57
34.25	0.65	2.51
34.50	0.67	2.45
34.75	0.69	2.40
35.00	0.70	2.37
35.25	0.72	2.35
35.50	0.73	2.34
35.75	0.74	2.34
36.00	0.75	2.35
36.25	0.74	2.37
36.50	0.74	2.39
36.75	0.72	2.40
37.00	0.71	2.42
37.25	0.68	2.42
37.50	0.65	2.42
37.75	0.61	2.41
38.00	0.57	2.39
38.25	0.52	2.36
38.50	0.46	2.32
38.75	0.41	2.27
39.00	0.35	2.22
39.25	0.28	2.16
39.50	0.22	2.10
39.75	0.16	2.05
40.00	0.10	1.99
40.25	0.04	1.95
40.50	-0.02	1.90
40.75	-0.07	1.87

41.00	-0.12	1.84
41.25	-0.17	1.82
41.50	-0.21	1.80
41.75	-0.24	1.79
42.00	-0.27	1.78
42.25	-0.30	1.77
42.50	-0.33	1.76
42.75	-0.35	1.74
43.00	-0.37	1.72
43.25	-0.39	1.69
43.50	-0.41	1.66
43.75	-0.44	1.63
44.00	-0.47	1.59
44.25	-0.51	1.54
44.50	-0.55	1.50
44.75	-0.61	1.45
45.00	-0.67	1.40
45.25	-0.75	1.34
45.50	-0.84	1.29
45.75	-0.94	1.24
46.00	-1.05	1.19
46.25	-1.18	1.15
46.50	-1.32	1.11
46.75	-1.47	1.08
47.00	-1.63	1.05
47.25	-1.80	1.03
47.50	-1.97	1.01
47.75	-2.14	1.00
48.00	-2.31	0.99
48.25	-2.47	0.99
48.50	-2.60	0.99
48.75	-2.72	1.00
49.00	-2.80	1.00
49.25	-2.85	1.01

49.50	-2.85	1.01
49.75	-2.81	1.01
50.00	-2.72	1.01
50.25	-2.59	1.00
50.50	-2.43	0.99
50.75	-2.22	0.97
51.00	-1.99	0.95
51.25	-1.75	0.92
51.50	-1.49	0.89
51.75	-1.23	0.85
52.00	-0.96	0.80
52.25	-0.71	0.75
52.50	-0.47	0.70
52.75	-0.24	0.64
53.00	-0.03	0.57
53.25	0.16	0.50
53.50	0.33	0.44
53.75	0.47	0.36
54.00	0.59	0.29
54.25	0.68	0.22
54.50	0.75	0.16
54.75	0.79	0.09
55.00	0.80	0.03
55.25	0.78	-0.03
55.50	0.74	-0.08
55.75	0.67	-0.13
56.00	0.57	-0.18
56.25	0.44	-0.22
56.50	0.29	-0.26
56.75	0.11	-0.30
57.00	-0.09	-0.33
57.25	-0.31	-0.36
57.50	-0.56	-0.39
57.75	-0.81	-0.42

58.00	-1.08	-0.45
58.25	-1.35	-0.48
58.50	-1.61	-0.51
58.75	-1.87	-0.55
59.00	-2.10	-0.58
59.25	-2.30	-0.61
59.50	-2.45	-0.65
59.75	-2.56	-0.69
60.00	-2.61	-0.73
60.25	-2.60	-0.77
60.50	-2.53	-0.81
60.75	-2.42	-0.85
61.00	-2.26	-0.90
61.25	-2.07	-0.94
61.50	-1.86	-0.98
61.75	-1.64	-1.02
62.00	-1.42	-1.06
62.25	-1.21	-1.10
62.50	-1.01	-1.14
62.75	-0.82	-1.17
63.00	-0.67	-1.21
63.25	-0.53	-1.24
63.50	-0.43	-1.27
63.75	-0.36	-1.30
64.00	-0.32	-1.33
64.25	-0.31	-1.36
64.50	-0.34	-1.39
64.75	-0.41	-1.41
65.00	-0.51	-1.44
65.25	-0.65	-1.46
65.50	-0.83	-1.49
65.75	-1.05	-1.52
66.00	-1.30	-1.55
66.25	-1.59	-1.58

66.50	-1.92	-1.61
66.75	-2.28	-1.64
67.00	-2.66	-1.68
67.25	-3.06	-1.72
67.50	-3.46	-1.77
67.75	-3.86	-1.81
68.00	-4.23	-1.86
68.25	-4.54	-1.92
68.50	-4.77	-1.98
68.75	-4.90	-2.04
69.00	-4.91	-2.10
69.25	-4.80	-2.17
69.50	-4.58	-2.24
69.75	-4.27	-2.31
70.00	-3.90	-2.39
70.25	-3.48	-2.47
70.50	-3.05	-2.55
70.75	-2.62	-2.63
71.00	-2.20	-2.71
71.25	-1.80	-2.80
71.50	-1.44	-2.88
71.75	-1.11	-2.97
72.00	-0.82	-3.05
72.25	-0.57	-3.14
72.50	-0.37	-3.22
72.75	-0.20	-3.30
73.00	-0.08	-3.38
73.25	0.00	-3.46
73.50	0.03	-3.53
73.75	0.02	-3.60
74.00	-0.03	-3.67
74.25	-0.14	-3.72
74.50	-0.29	-3.78
74.75	-0.49	-3.82

75.00	-0.75	-3.86
75.25	-1.06	-3.88
75.50	-1.42	-3.90
75.75	-1.85	-3.91
76.00	-2.34	-3.90
76.25	-2.90	-3.89
76.50	-3.52	-3.86
76.75	-4.21	-3.83
77.00	-4.97	-3.78
77.25	-5.78	-3.72
77.50	-6.60	-3.65
77.75	-7.39	-3.58
78.00	-8.06	-3.49
78.25	-8.49	-3.40
78.50	-8.58	-3.31
78.75	-8.31	-3.21
79.00	-7.75	-3.10
79.25	-6.99	-3.00
79.50	-6.16	-2.89
79.75	-5.32	-2.79
80.00	-4.51	-2.69
80.25	-3.76	-2.59
80.50	-3.08	-2.50
80.75	-2.47	-2.42
81.00	-1.93	-2.34
81.25	-1.46	-2.28
81.50	-1.04	-2.23
81.75	-0.69	-2.19
82.00	-0.40	-2.16
82.25	-0.16	-2.15
82.50	0.02	-2.16
82.75	0.15	-2.18
83.00	0.22	-2.22
83.25	0.25	-2.28

83.50	0.22	-2.36
83.75	0.14	-2.46
84.00	0.00	-2.58
84.25	-0.19	-2.73
84.50	-0.45	-2.90
84.75	-0.76	-3.09
85.00	-1.15	-3.31
85.25	-1.61	-3.54
85.50	-2.15	-3.81
85.75	-2.79	-4.09
86.00	-3.53	-4.39
86.25	-4.41	-4.70
86.50	-5.44	-5.02
86.75	-6.66	-5.34
87.00	-8.15	-5.64
87.25	-10.00	-5.92
87.50	-12.39	-6.16
87.75	-15.64	-6.34
88.00	-20.23	-6.44
88.25	-23.31	-6.46
88.50	-18.89	-6.39
88.75	-14.69	-6.24
89.00	-11.73	-6.01
89.25	-9.52	-5.71
89.50	-7.79	-5.38
89.75	-6.39	-5.01
90.00	-5.24	-4.63
90.25	-4.26	-4.26
90.50	-3.44	-3.90
90.75	-2.74	-3.56
91.00	-2.15	-3.25
91.25	-1.64	-2.97
91.50	-1.22	-2.73
91.75	-0.87	-2.53

92.00	-0.59	-2.37
92.25	-0.38	-2.26
92.50	-0.22	-2.19
92.75	-0.12	-2.17
93.00	-0.08	-2.20
93.25	-0.10	-2.29
93.50	-0.17	-2.42
93.75	-0.29	-2.61
94.00	-0.48	-2.86
94.25	-0.72	-3.16
94.50	-1.03	-3.52
94.75	-1.40	-3.94
95.00	-1.84	-4.41
95.25	-2.35	-4.91
95.50	-2.95	-5.44
95.75	-3.63	-5.95
96.00	-4.42	-6.41
96.25	-5.32	-6.75
96.50	-6.33	-6.93
96.75	-7.46	-6.90
97.00	-8.70	-6.65
97.25	-9.98	-6.23
97.50	-11.13	-5.68
97.75	-11.86	-5.06
98.00	-11.88	-4.43
98.25	-11.18	-3.82
98.50	-10.07	-3.25
98.75	-8.82	-2.74
99.00	-7.61	-2.29
99.25	-6.50	-1.92
99.50	-5.52	-1.61
99.75	-4.65	-1.39
100.00	-3.89	-1.23
100.25	-3.23	-1.16



100.50	-2.65	-1.16
100.75	-2.16	-1.24
101.00	-1.74	-1.40
101.25	-1.39	-1.63
101.50	-1.10	-1.94
101.75	-0.86	-2.32
102.00	-0.68	-2.77
102.25	-0.56	-3.26
102.50	-0.48	-3.78
102.75	-0.45	-4.27
103.00	-0.46	-4.67
103.25	-0.52	-4.92
103.50	-0.62	-4.97
103.75	-0.76	-4.78
104.00	-0.93	-4.39
104.25	-1.15	-3.85
104.50	-1.39	-3.24
104.75	-1.67	-2.62
105.00	-1.97	-2.04
105.25	-2.29	-1.50
105.50	-2.63	-1.05
105.75	-2.96	-0.67
106.00	-3.29	-0.38
106.25	-3.59	-0.19
106.50	-3.85	-0.09
106.75	-4.06	-0.08
107.00	-4.21	-0.16
107.25	-4.28	-0.34
107.50	-4.27	-0.60
107.75	-4.18	-0.95
108.00	-4.03	-1.37
108.25	-3.83	-1.84
108.50	-3.58	-2.32
108.75	-3.31	-2.77

109.00	-3.02	-3.11
109.25	-2.73	-3.29
109.50	-2.45	-3.25
109.75	-2.17	-3.00
110.00	-1.91	-2.58
110.25	-1.67	-2.06
110.50	-1.46	-1.51
110.75	-1.26	-0.97
111.00	-1.08	-0.50
111.25	-0.93	-0.11
111.50	-0.79	0.19
111.75	-0.68	0.39
112.00	-0.59	0.48
112.25	-0.51	0.47
112.50	-0.46	0.34
112.75	-0.42	0.10
113.00	-0.39	-0.23
113.25	-0.39	-0.66
113.50	-0.39	-1.16
113.75	-0.41	-1.70
114.00	-0.45	-2.20
114.25	-0.49	-2.60
114.50	-0.55	-2.81
114.75	-0.62	-2.77
115.00	-0.70	-2.48
115.25	-0.79	-2.02
115.50	-0.89	-1.46
115.75	-1.00	-0.89
116.00	-1.12	-0.38
116.25	-1.24	0.06
116.50	-1.36	0.39
116.75	-1.48	0.60
117.00	-1.60	0.68
117.25	-1.70	0.64

117.50	-1.79	0.47
117.75	-1.86	0.18
118.00	-1.90	-0.23
118.25	-1.92	-0.74
118.50	-1.90	-1.30
118.75	-1.85	-1.86
119.00	-1.76	-2.32
119.25	-1.64	-2.58
119.50	-1.49	-2.55
119.75	-1.32	-2.24
120.00	-1.13	-1.74
120.25	-0.93	-1.15
120.50	-0.73	-0.56
120.75	-0.53	-0.04
121.00	-0.33	0.38
121.25	-0.15	0.66
121.50	0.01	0.80
121.75	0.16	0.80
122.00	0.27	0.64
122.25	0.36	0.34
122.50	0.42	-0.10
122.75	0.44	-0.66
123.00	0.43	-1.29
123.25	0.38	-1.93
123.50	0.30	-2.44
123.75	0.18	-2.69
124.00	0.02	-2.59
124.25	-0.18	-2.16
124.50	-0.41	-1.54
124.75	-0.69	-0.86
125.00	-0.99	-0.23
125.25	-1.33	0.30
125.50	-1.69	0.69
125.75	-2.06	0.91

126.00	-2.43	0.97
126.25	-2.79	0.87
126.50	-3.11	0.59
126.75	-3.37	0.16
127.00	-3.56	-0.42
127.25	-3.65	-1.09
127.50	-3.64	-1.78
127.75	-3.54	-2.34
128.00	-3.34	-2.61
128.25	-3.08	-2.49
128.50	-2.78	-2.02
128.75	-2.44	-1.35
129.00	-2.11	-0.64
129.25	-1.77	0.00
129.50	-1.46	0.51
129.75	-1.17	0.86
130.00	-0.91	1.04
130.25	-0.69	1.03
130.50	-0.50	0.85
130.75	-0.34	0.51
131.00	-0.23	0.01
131.25	-0.14	-0.58
131.50	-0.09	-1.20
131.75	-0.07	-1.70
132.00	-0.08	-1.93
132.25	-0.12	-1.80
132.50	-0.18	-1.34
132.75	-0.26	-0.70
133.00	-0.35	-0.01
133.25	-0.46	0.60
133.50	-0.57	1.09
133.75	-0.68	1.42
134.00	-0.79	1.57
134.25	-0.90	1.55

134.50	-0.99	1.36
134.75	-1.07	1.02
135.00	-1.13	0.54
135.25	-1.18	0.00
135.50	-1.21	-0.51
135.75	-1.22	-0.88
136.00	-1.21	-0.97
136.25	-1.19	-0.76
136.50	-1.16	-0.30
136.75	-1.12	0.27
137.00	-1.07	0.84
137.25	-1.02	1.32
137.50	-0.96	1.66
137.75	-0.90	1.83
138.00	-0.85	1.84
138.25	-0.79	1.66
138.50	-0.73	1.33
138.75	-0.67	0.86
139.00	-0.62	0.31
139.25	-0.56	-0.24
139.50	-0.50	-0.64
139.75	-0.45	-0.77
140.00	-0.39	-0.57
140.25	-0.33	-0.11
140.50	-0.27	0.48
140.75	-0.21	1.07
141.00	-0.15	1.57
141.25	-0.09	1.92
141.50	-0.04	2.11
141.75	0.02	2.12
142.00	0.07	1.95
142.25	0.12	1.62
142.50	0.17	1.15
142.75	0.21	0.60

143.00	0.25	0.07
143.25	0.29	-0.31
143.50	0.33	-0.41
143.75	0.37	-0.18
144.00	0.41	0.29
144.25	0.45	0.87
144.50	0.50	1.44
144.75	0.55	1.91
145.00	0.60	2.23
145.25	0.66	2.39
145.50	0.73	2.36
145.75	0.81	2.15
146.00	0.89	1.79
146.25	0.98	1.29
146.50	1.07	0.73
146.75	1.17	0.20
147.00	1.26	-0.17
147.25	1.36	-0.24
147.50	1.45	0.01
147.75	1.54	0.48
148.00	1.63	1.05
148.25	1.70	1.59
148.50	1.77	2.03
148.75	1.83	2.33
149.00	1.88	2.47
149.25	1.92	2.44
149.50	1.94	2.25
149.75	1.96	1.94
150.00	1.96	1.54
150.25	1.95	1.12
150.50	1.94	0.77
150.75	1.91	0.59
151.00	1.88	0.62
151.25	1.83	0.86

151.50	1.79	1.24
151.75	1.73	1.66
152.00	1.68	2.04
152.25	1.62	2.32
152.50	1.57	2.48
152.75	1.51	2.50
153.00	1.46	2.39
153.25	1.41	2.17
153.50	1.37	1.86
153.75	1.34	1.50
154.00	1.31	1.18
154.25	1.28	0.95
154.50	1.27	0.88
154.75	1.27	0.98
155.00	1.27	1.22
155.25	1.28	1.52
155.50	1.30	1.83
155.75	1.33	2.10
156.00	1.37	2.28
156.25	1.42	2.36
156.50	1.48	2.34
156.75	1.55	2.24
157.00	1.62	2.07
157.25	1.70	1.88
157.50	1.78	1.71
157.75	1.87	1.60
158.00	1.96	1.58
158.25	2.05	1.67
158.50	2.14	1.86
158.75	2.23	2.10
159.00	2.32	2.35
159.25	2.41	2.58
159.50	2.49	2.76
159.75	2.56	2.88

160.00	2.62	2.93
160.25	2.68	2.91
160.50	2.73	2.85
160.75	2.77	2.76
161.00	2.80	2.67
161.25	2.82	2.60
161.50	2.83	2.56
161.75	2.83	2.58
162.00	2.82	2.64
162.25	2.81	2.74
162.50	2.79	2.86
162.75	2.77	2.97
163.00	2.74	3.06
163.25	2.71	3.12
163.50	2.69	3.14
163.75	2.66	3.13
164.00	2.64	3.09
164.25	2.62	3.04
164.50	2.62	2.98
164.75	2.61	2.92
165.00	2.62	2.88
165.25	2.63	2.87
165.50	2.65	2.88
165.75	2.68	2.91
166.00	2.71	2.96
166.25	2.75	3.01
166.50	2.79	3.06
166.75	2.83	3.10
167.00	2.88	3.13
167.25	2.93	3.14
167.50	2.97	3.13
167.75	3.02	3.11
168.00	3.07	3.09
168.25	3.11	3.06



168.50	3.15	3.04
168.75	3.19	3.02
169.00	3.22	3.03
169.25	3.25	3.05
169.50	3.28	3.09
169.75	3.30	3.13
170.00	3.33	3.19
170.25	3.35	3.24
170.50	3.37	3.29
170.75	3.39	3.33
171.00	3.41	3.35
171.25	3.43	3.36
171.50	3.44	3.35
171.75	3.46	3.34
172.00	3.48	3.32
172.25	3.49	3.30
172.50	3.51	3.29
172.75	3.53	3.29
173.00	3.54	3.31
173.25	3.55	3.35
173.50	3.57	3.41
173.75	3.58	3.47
174.00	3.58	3.54
174.25	3.59	3.60
174.50	3.59	3.64
174.75	3.60	3.67
175.00	3.60	3.67
175.25	3.59	3.65
175.50	3.59	3.61
175.75	3.58	3.56
176.00	3.58	3.52
176.25	3.57	3.49
176.50	3.57	3.49
176.75	3.56	3.51

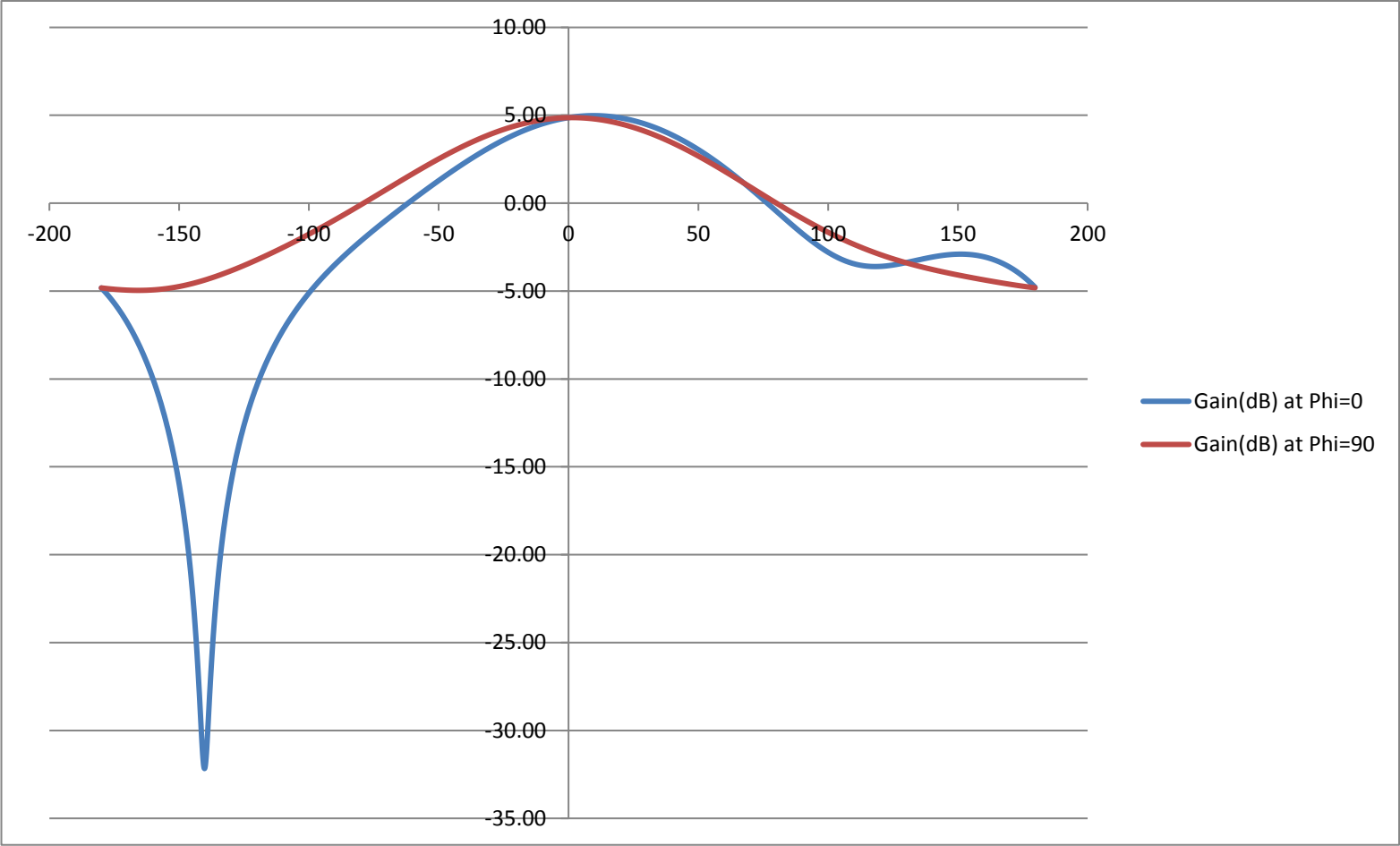
177.00	3.55	3.56
177.25	3.55	3.63
177.50	3.54	3.71
177.75	3.54	3.79
178.00	3.54	3.85
178.25	3.54	3.89
178.50	3.54	3.90
178.75	3.55	3.89
179.00	3.55	3.84
179.25	3.56	3.77
179.50	3.57	3.70
179.75	3.58	3.63
180.00	3.59	3.59

**Exhibit 5**

Telemetry Downlink Satellite Antenna Patterns

Applicant: **Space Exploration Technologies Corp. (SpaceX)**

**Table 3: Ka-band Telemetry Pattern**



theta(deg)	Gain(dB) at Phi=0	Gain(dB) at Phi=90
-180	-4.82	-4.82
-179.75	-4.86	-4.83
-179.5	-4.90	-4.83
-179.25	-4.94	-4.84
-179	-4.98	-4.84
-178.75	-5.02	-4.84
-178.5	-5.06	-4.85
-178.25	-5.10	-4.85
-178	-5.14	-4.86
-177.75	-5.19	-4.86
-177.5	-5.23	-4.86
-177.25	-5.27	-4.87
-177	-5.32	-4.87
-176.75	-5.36	-4.87
-176.5	-5.41	-4.88
-176.25	-5.45	-4.88
-176	-5.50	-4.89
-175.75	-5.55	-4.89
-175.5	-5.60	-4.89
-175.25	-5.64	-4.90
-175	-5.69	-4.90
-174.75	-5.74	-4.90
-174.5	-5.79	-4.91
-174.25	-5.84	-4.91
-174	-5.89	-4.91
-173.75	-5.95	-4.91
-173.5	-6.00	-4.92
-173.25	-6.05	-4.92
-173	-6.11	-4.92
-172.75	-6.16	-4.92
-172.5	-6.21	-4.93
-172.25	-6.27	-4.93
-172	-6.33	-4.93

-171.75	-6.38	-4.93
-171.5	-6.44	-4.94
-171.25	-6.50	-4.94
-171	-6.56	-4.94
-170.75	-6.62	-4.94
-170.5	-6.68	-4.94
-170.25	-6.74	-4.95
-170	-6.80	-4.95
-169.75	-6.87	-4.95
-169.5	-6.93	-4.95
-169.25	-6.99	-4.95
-169	-7.06	-4.95
-168.75	-7.12	-4.96
-168.5	-7.19	-4.96
-168.25	-7.26	-4.96
-168	-7.33	-4.96
-167.75	-7.40	-4.96
-167.5	-7.47	-4.96
-167.25	-7.54	-4.96
-167	-7.61	-4.96
-166.75	-7.68	-4.96
-166.5	-7.75	-4.96
-166.25	-7.83	-4.96
-166	-7.90	-4.96
-165.75	-7.98	-4.96
-165.5	-8.06	-4.96
-165.25	-8.14	-4.96
-165	-8.22	-4.96
-164.75	-8.30	-4.96
-164.5	-8.38	-4.96
-164.25	-8.46	-4.96
-164	-8.54	-4.96
-163.75	-8.63	-4.96
-163.5	-8.71	-4.96

-163.25	-8.80	-4.96
-163	-8.89	-4.96
-162.75	-8.98	-4.96
-162.5	-9.07	-4.95
-162.25	-9.16	-4.95
-162	-9.25	-4.95
-161.75	-9.35	-4.95
-161.5	-9.44	-4.95
-161.25	-9.54	-4.95
-161	-9.64	-4.94
-160.75	-9.73	-4.94
-160.5	-9.84	-4.94
-160.25	-9.94	-4.94
-160	-10.04	-4.94
-159.75	-10.15	-4.93
-159.5	-10.25	-4.93
-159.25	-10.36	-4.93
-159	-10.47	-4.92
-158.75	-10.58	-4.92
-158.5	-10.70	-4.92
-158.25	-10.81	-4.92
-158	-10.93	-4.91
-157.75	-11.04	-4.91
-157.5	-11.17	-4.90
-157.25	-11.29	-4.90
-157	-11.41	-4.90
-156.75	-11.54	-4.89
-156.5	-11.67	-4.89
-156.25	-11.80	-4.89
-156	-11.93	-4.88
-155.75	-12.06	-4.88
-155.5	-12.20	-4.87
-155.25	-12.34	-4.87
-155	-12.48	-4.86

-154.75	-12.63	-4.86
-154.5	-12.77	-4.85
-154.25	-12.92	-4.85
-154	-13.08	-4.84
-153.75	-13.23	-4.84
-153.5	-13.39	-4.83
-153.25	-13.55	-4.83
-153	-13.72	-4.82
-152.75	-13.88	-4.81
-152.5	-14.06	-4.81
-152.25	-14.23	-4.80
-152	-14.41	-4.80
-151.75	-14.59	-4.79
-151.5	-14.78	-4.78
-151.25	-14.97	-4.78
-151	-15.16	-4.77
-150.75	-15.36	-4.76
-150.5	-15.57	-4.76
-150.25	-15.78	-4.75
-150	-15.99	-4.74
-149.75	-16.21	-4.74
-149.5	-16.44	-4.73
-149.25	-16.67	-4.72
-149	-16.91	-4.71
-148.75	-17.15	-4.71
-148.5	-17.40	-4.70
-148.25	-17.66	-4.69
-148	-17.93	-4.68
-147.75	-18.20	-4.67
-147.5	-18.49	-4.66
-147.25	-18.78	-4.66
-147	-19.08	-4.65
-146.75	-19.39	-4.64
-146.5	-19.71	-4.63



-146.25	-20.05	-4.62
-146	-20.40	-4.61
-145.75	-20.76	-4.60
-145.5	-21.13	-4.59
-145.25	-21.52	-4.59
-145	-21.93	-4.58
-144.75	-22.35	-4.57
-144.5	-22.80	-4.56
-144.25	-23.26	-4.55
-144	-23.75	-4.54
-143.75	-24.26	-4.53
-143.5	-24.79	-4.52
-143.25	-25.35	-4.51
-143	-25.94	-4.50
-142.75	-26.56	-4.49
-142.5	-27.20	-4.48
-142.25	-27.87	-4.47
-142	-28.57	-4.46
-141.75	-29.27	-4.45
-141.5	-29.97	-4.43
-141.25	-30.64	-4.42
-141	-31.24	-4.41
-140.75	-31.73	-4.40
-140.5	-32.06	-4.39
-140.25	-32.17	-4.38
-140	-32.07	-4.37
-139.75	-31.75	-4.36
-139.5	-31.27	-4.34
-139.25	-30.67	-4.33
-139	-30.01	-4.32
-138.75	-29.32	-4.31
-138.5	-28.62	-4.30
-138.25	-27.93	-4.29
-138	-27.27	-4.27

-137.75	-26.63	-4.26
-137.5	-26.02	-4.25
-137.25	-25.44	-4.24
-137	-24.89	-4.22
-136.75	-24.36	-4.21
-136.5	-23.86	-4.20
-136.25	-23.38	-4.19
-136	-22.93	-4.17
-135.75	-22.49	-4.16
-135.5	-22.07	-4.15
-135.25	-21.67	-4.14
-135	-21.29	-4.12
-134.75	-20.92	-4.11
-134.5	-20.57	-4.10
-134.25	-20.23	-4.08
-134	-19.90	-4.07
-133.75	-19.59	-4.06
-133.5	-19.28	-4.04
-133.25	-18.99	-4.03
-133	-18.70	-4.02
-132.75	-18.43	-4.00
-132.5	-18.16	-3.99
-132.25	-17.90	-3.97
-132	-17.65	-3.96
-131.75	-17.40	-3.95
-131.5	-17.17	-3.93
-131.25	-16.93	-3.92
-131	-16.71	-3.90
-130.75	-16.49	-3.89
-130.5	-16.28	-3.87
-130.25	-16.07	-3.86
-130	-15.87	-3.85
-129.75	-15.67	-3.83
-129.5	-15.48	-3.82

-129.25	-15.29	-3.80
-129	-15.10	-3.79
-128.75	-14.92	-3.77
-128.5	-14.75	-3.76
-128.25	-14.57	-3.74
-128	-14.40	-3.73
-127.75	-14.24	-3.71
-127.5	-14.08	-3.70
-127.25	-13.92	-3.68
-127	-13.76	-3.67
-126.75	-13.61	-3.65
-126.5	-13.46	-3.64
-126.25	-13.31	-3.62
-126	-13.17	-3.61
-125.75	-13.03	-3.59
-125.5	-12.89	-3.58
-125.25	-12.75	-3.56
-125	-12.62	-3.54
-124.75	-12.49	-3.53
-124.5	-12.36	-3.51
-124.25	-12.23	-3.50
-124	-12.10	-3.48
-123.75	-11.98	-3.47
-123.5	-11.86	-3.45
-123.25	-11.74	-3.43
-123	-11.62	-3.42
-122.75	-11.51	-3.40
-122.5	-11.39	-3.38
-122.25	-11.28	-3.37
-122	-11.17	-3.35
-121.75	-11.06	-3.34
-121.5	-10.95	-3.32
-121.25	-10.85	-3.30
-121	-10.74	-3.29

-120.75	-10.64	-3.27
-120.5	-10.54	-3.25
-120.25	-10.44	-3.24
-120	-10.34	-3.22
-119.75	-10.24	-3.20
-119.5	-10.15	-3.19
-119.25	-10.05	-3.17
-119	-9.96	-3.15
-118.75	-9.87	-3.14
-118.5	-9.78	-3.12
-118.25	-9.69	-3.10
-118	-9.60	-3.09
-117.75	-9.51	-3.07
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-117.25	-9.34	-3.04
-117	-9.25	-3.02
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-115.75	-8.84	-2.93
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-114.25	-8.38	-2.83
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-113.75	-8.24	-2.79
-113.5	-8.17	-2.77
-113.25	-8.09	-2.76
-113	-8.02	-2.74
-112.75	-7.95	-2.72
-112.5	-7.88	-2.70

-112.25	-7.82	-2.69
-112	-7.75	-2.67
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-111.25	-7.55	-2.61
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-110.25	-7.29	-2.54
-110	-7.23	-2.52
-109.75	-7.17	-2.50
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-102	-5.49	-1.92
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-97.75	-4.72	-1.59
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-97.25	-4.63	-1.55
-97.00	-4.59	-1.53
-96.75	-4.55	-1.51
-96.50	-4.51	-1.49
-96.25	-4.47	-1.47
-96.00	-4.42	-1.45
-95.75	-4.38	-1.43
-95.50	-4.34	-1.40

-95.25	-4.30	-1.38
-95.00	-4.26	-1.36
-94.75	-4.22	-1.34
-94.50	-4.18	-1.32
-94.25	-4.14	-1.30
-94.00	-4.10	-1.28
-93.75	-4.06	-1.26
-93.50	-4.02	-1.24
-93.25	-3.99	-1.22
-93.00	-3.95	-1.20
-92.75	-3.91	-1.18
-92.50	-3.87	-1.16
-92.25	-3.83	-1.14
-92.00	-3.80	-1.12
-91.75	-3.76	-1.10
-91.50	-3.72	-1.08
-91.25	-3.68	-1.06
-91.00	-3.65	-1.03
-90.75	-3.61	-1.01
-90.50	-3.57	-0.99
-90.25	-3.54	-0.97
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-89.75	-3.46	-0.93
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-89.25	-3.39	-0.89
-89.00	-3.36	-0.87
-88.75	-3.32	-0.85
-88.50	-3.28	-0.82
-88.25	-3.25	-0.80
-88.00	-3.21	-0.78
-87.75	-3.18	-0.76
-87.50	-3.14	-0.74
-87.25	-3.11	-0.72
-87.00	-3.07	-0.70

-86.75	-3.04	-0.68
-86.50	-3.01	-0.65
-86.25	-2.97	-0.63
-86.00	-2.94	-0.61
-85.75	-2.90	-0.59
-85.50	-2.87	-0.57
-85.25	-2.84	-0.55
-85.00	-2.80	-0.53
-84.75	-2.77	-0.50
-84.50	-2.73	-0.48
-84.25	-2.70	-0.46
-84.00	-2.67	-0.44
-83.75	-2.63	-0.42
-83.50	-2.60	-0.40
-83.25	-2.57	-0.37
-83.00	-2.54	-0.35
-82.75	-2.50	-0.33
-82.50	-2.47	-0.31
-82.25	-2.44	-0.29
-82.00	-2.41	-0.27
-81.75	-2.37	-0.24
-81.50	-2.34	-0.22
-81.25	-2.31	-0.20
-81.00	-2.28	-0.18
-80.75	-2.25	-0.16
-80.50	-2.21	-0.14
-80.25	-2.18	-0.11
-80.00	-2.15	-0.09
-79.75	-2.12	-0.07
-79.50	-2.09	-0.05
-79.25	-2.06	-0.03
-79.00	-2.02	0.00
-78.75	-1.99	0.02
-78.50	-1.96	0.04



-78.25	-1.93	0.06
-78.00	-1.90	0.08
-77.75	-1.87	0.11
-77.50	-1.84	0.13
-77.25	-1.81	0.15
-77.00	-1.78	0.17
-76.75	-1.74	0.19
-76.50	-1.71	0.22
-76.25	-1.68	0.24
-76.00	-1.65	0.26
-75.75	-1.62	0.28
-75.50	-1.59	0.31
-75.25	-1.56	0.33
-75.00	-1.53	0.35
-74.75	-1.50	0.37
-74.50	-1.47	0.39
-74.25	-1.44	0.42
-74.00	-1.41	0.44
-73.75	-1.38	0.46
-73.50	-1.35	0.48
-73.25	-1.32	0.51
-73.00	-1.29	0.53
-72.75	-1.26	0.55
-72.50	-1.23	0.57
-72.25	-1.20	0.59
-72.00	-1.17	0.62
-71.75	-1.14	0.64
-71.50	-1.11	0.66
-71.25	-1.08	0.68
-71.00	-1.05	0.71
-70.75	-1.02	0.73
-70.50	-1.00	0.75
-70.25	-0.97	0.77
-70.00	-0.94	0.79

-69.75	-0.91	0.82
-69.50	-0.88	0.84
-69.25	-0.85	0.86
-69.00	-0.82	0.88
-68.75	-0.79	0.91
-68.50	-0.76	0.93
-68.25	-0.73	0.95
-68.00	-0.70	0.97
-67.75	-0.67	0.99
-67.50	-0.65	1.02
-67.25	-0.62	1.04
-67.00	-0.59	1.06
-66.75	-0.56	1.08
-66.50	-0.53	1.11
-66.25	-0.50	1.13
-66.00	-0.47	1.15
-65.75	-0.44	1.17
-65.50	-0.42	1.19
-65.25	-0.39	1.22
-65.00	-0.36	1.24
-64.75	-0.33	1.26
-64.50	-0.30	1.28
-64.25	-0.27	1.31
-64.00	-0.25	1.33
-63.75	-0.22	1.35
-63.50	-0.19	1.37
-63.25	-0.16	1.39
-63.00	-0.13	1.42
-62.75	-0.10	1.44
-62.50	-0.08	1.46
-62.25	-0.05	1.48
-62.00	-0.02	1.50
-61.75	0.01	1.52
-61.50	0.04	1.55

-61.25	0.06	1.57
-61.00	0.09	1.59
-60.75	0.12	1.61
-60.50	0.15	1.63
-60.25	0.18	1.66
-60.00	0.20	1.68
-59.75	0.23	1.70
-59.50	0.26	1.72
-59.25	0.29	1.74
-59.00	0.31	1.76
-58.75	0.34	1.79
-58.50	0.37	1.81
-58.25	0.40	1.83
-58.00	0.42	1.85
-57.75	0.45	1.87
-57.50	0.48	1.89
-57.25	0.51	1.91
-57.00	0.53	1.94
-56.75	0.56	1.96
-56.50	0.59	1.98
-56.25	0.62	2.00
-56.00	0.64	2.02
-55.75	0.67	2.04
-55.50	0.70	2.06
-55.25	0.73	2.08
-55.00	0.75	2.11
-54.75	0.78	2.13
-54.50	0.81	2.15
-54.25	0.83	2.17
-54.00	0.86	2.19
-53.75	0.89	2.21
-53.50	0.91	2.23
-53.25	0.94	2.25
-53.00	0.97	2.27

-52.75	0.99	2.29
-52.50	1.02	2.31
-52.25	1.05	2.34
-52.00	1.08	2.36
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-51.50	1.13	2.40
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-50.50	1.23	2.48
-50.25	1.26	2.50
-50.00	1.29	2.52
-49.75	1.31	2.54
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-49.25	1.37	2.58
-49.00	1.39	2.60
-48.75	1.42	2.62
-48.50	1.44	2.64
-48.25	1.47	2.66
-48.00	1.50	2.68
-47.75	1.52	2.70
-47.50	1.55	2.72
-47.25	1.57	2.74
-47.00	1.60	2.76
-46.75	1.62	2.78
-46.50	1.65	2.80
-46.25	1.68	2.82
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-45.75	1.73	2.86
-45.50	1.75	2.87
-45.25	1.78	2.89
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-44.75	1.83	2.93
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-44.25	1.88	2.97
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-43.75	1.93	3.01
-43.50	1.95	3.03
-43.25	1.98	3.04
-43.00	2.00	3.06
-42.75	2.03	3.08
-42.50	2.05	3.10
-42.25	2.08	3.12
-42.00	2.10	3.14
-41.75	2.13	3.16
-41.50	2.15	3.17
-41.25	2.18	3.19
-41.00	2.20	3.21
-40.75	2.22	3.23
-40.50	2.25	3.25
-40.25	2.27	3.26
-40.00	2.30	3.28
-39.75	2.32	3.30
-39.50	2.34	3.32
-39.25	2.37	3.33
-39.00	2.39	3.35
-38.75	2.42	3.37
-38.50	2.44	3.39
-38.25	2.46	3.40
-38.00	2.49	3.42
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-37.00	2.58	3.49
-36.75	2.60	3.51
-36.50	2.63	3.52
-36.25	2.65	3.54
-36.00	2.67	3.55

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-34.75	2.79	3.64
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-33.75	2.88	3.70
-33.50	2.90	3.72
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-33.00	2.94	3.75
-32.75	2.96	3.76
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-32.00	3.03	3.81
-31.75	3.05	3.82
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-30.25	3.18	3.91
-30.00	3.20	3.93
-29.75	3.22	3.94
-29.50	3.24	3.95
-29.25	3.26	3.97
-29.00	3.28	3.98
-28.75	3.30	4.00
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-28.25	3.34	4.02
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-27.75	3.38	4.05
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-26.75	3.46	4.10
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-26.25	3.50	4.13
-26.00	3.52	4.14
-25.75	3.54	4.16
-25.50	3.56	4.17
-25.25	3.58	4.18
-25.00	3.60	4.19
-24.75	3.61	4.21
-24.50	3.63	4.22
-24.25	3.65	4.23
-24.00	3.67	4.24
-23.75	3.69	4.25
-23.50	3.71	4.27
-23.25	3.73	4.28
-23.00	3.74	4.29
-22.75	3.76	4.30
-22.50	3.78	4.31
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-21.75	3.83	4.35
-21.50	3.85	4.36
-21.25	3.87	4.37
-21.00	3.88	4.38
-20.75	3.90	4.39
-20.50	3.92	4.40
-20.25	3.93	4.41
-20.00	3.95	4.42
-19.75	3.97	4.43
-19.50	3.98	4.44
-19.25	4.00	4.45
-19.00	4.02	4.46

-18.75	4.03	4.47
-18.50	4.05	4.48
-18.25	4.06	4.49
-18.00	4.08	4.50
-17.75	4.10	4.51
-17.50	4.11	4.52
-17.25	4.13	4.53
-17.00	4.14	4.54
-16.75	4.16	4.54
-16.50	4.17	4.55
-16.25	4.19	4.56
-16.00	4.20	4.57
-15.75	4.22	4.58
-15.50	4.23	4.59
-15.25	4.24	4.60
-15.00	4.26	4.60
-14.75	4.27	4.61
-14.50	4.29	4.62
-14.25	4.30	4.63
-14.00	4.31	4.63
-13.75	4.33	4.64
-13.50	4.34	4.65
-13.25	4.36	4.66
-13.00	4.37	4.66
-12.75	4.38	4.67
-12.50	4.39	4.68
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-12.00	4.42	4.69
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-11.00	4.47	4.72
-10.75	4.48	4.72
-10.50	4.49	4.73



-10.25	4.50	4.73
-10.00	4.52	4.74
-9.75	4.53	4.75
-9.50	4.54	4.75
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-9.00	4.56	4.76
-8.75	4.57	4.77
-8.50	4.58	4.77
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-7.75	4.61	4.79
-7.50	4.63	4.79
-7.25	4.64	4.79
-7.00	4.65	4.80
-6.75	4.65	4.80
-6.50	4.66	4.81
-6.25	4.67	4.81
-6.00	4.68	4.81
-5.75	4.69	4.82
-5.50	4.70	4.82
-5.25	4.71	4.82
-5.00	4.72	4.83
-4.75	4.73	4.83
-4.50	4.74	4.83
-4.25	4.75	4.84
-4.00	4.75	4.84
-3.75	4.76	4.84
-3.50	4.77	4.84
-3.25	4.78	4.85
-3.00	4.79	4.85
-2.75	4.79	4.85
-2.50	4.80	4.85
-2.25	4.81	4.85
-2.00	4.81	4.86

-1.75	4.82	4.86
-1.50	4.83	4.86
-1.25	4.83	4.86
-1.00	4.84	4.86
-0.75	4.85	4.86
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-0.25	4.86	4.87
0.00	4.87	4.87
0.25	4.87	4.87
0.50	4.88	4.87
0.75	4.88	4.87
1.00	4.89	4.87
1.25	4.89	4.87
1.50	4.90	4.87
1.75	4.90	4.87
2.00	4.91	4.87
2.25	4.91	4.87
2.50	4.92	4.87
2.75	4.92	4.87
3.00	4.93	4.86
3.25	4.93	4.86
3.50	4.93	4.86
3.75	4.94	4.86
4.00	4.94	4.86
4.25	4.94	4.86
4.50	4.95	4.86
4.75	4.95	4.86
5.00	4.95	4.85
5.25	4.96	4.85
5.50	4.96	4.85
5.75	4.96	4.85
6.00	4.96	4.85
6.25	4.97	4.84
6.50	4.97	4.84

6.75	4.97	4.84
7.00	4.97	4.83
7.25	4.97	4.83
7.50	4.97	4.83
7.75	4.98	4.83
8.00	4.98	4.82
8.25	4.98	4.82
8.50	4.98	4.81
8.75	4.98	4.81
9.00	4.98	4.81
9.25	4.98	4.80
9.50	4.98	4.80
9.75	4.98	4.80
10.00	4.98	4.79
10.25	4.98	4.79
10.50	4.98	4.78
10.75	4.98	4.78
11.00	4.98	4.77
11.25	4.98	4.77
11.50	4.98	4.76
11.75	4.98	4.76
12.00	4.97	4.75
12.25	4.97	4.75
12.50	4.97	4.74
12.75	4.97	4.74
13.00	4.97	4.73
13.25	4.96	4.72
13.50	4.96	4.72
13.75	4.96	4.71
14.00	4.96	4.70
14.25	4.96	4.70
14.50	4.95	4.69
14.75	4.95	4.69
15.00	4.95	4.68

15.25	4.94	4.67
15.50	4.94	4.66
15.75	4.94	4.66
16.00	4.93	4.65
16.25	4.93	4.64
16.50	4.92	4.64
16.75	4.92	4.63
17.00	4.92	4.62
17.25	4.91	4.61
17.50	4.91	4.60
17.75	4.90	4.60
18.00	4.90	4.59
18.25	4.89	4.58
18.50	4.89	4.57
18.75	4.88	4.56
19.00	4.87	4.55
19.25	4.87	4.54
19.50	4.86	4.54
19.75	4.86	4.53
20.00	4.85	4.52
20.25	4.84	4.51
20.50	4.84	4.50
20.75	4.83	4.49
21.00	4.82	4.48
21.25	4.82	4.47
21.50	4.81	4.46
21.75	4.80	4.45
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22.25	4.79	4.43
22.50	4.78	4.42
22.75	4.77	4.41
23.00	4.76	4.40
23.25	4.76	4.39
23.50	4.75	4.38

23.75	4.74	4.37
24.00	4.73	4.36
24.25	4.72	4.34
24.50	4.71	4.33
24.75	4.70	4.32
25.00	4.70	4.31
25.25	4.69	4.30
25.50	4.68	4.29
25.75	4.67	4.28
26.00	4.66	4.26
26.25	4.65	4.25
26.50	4.64	4.24
26.75	4.63	4.23
27.00	4.62	4.21
27.25	4.61	4.20
27.50	4.59	4.19
27.75	4.58	4.18
28.00	4.57	4.16
28.25	4.56	4.15
28.50	4.55	4.14
28.75	4.54	4.13
29.00	4.53	4.11
29.25	4.52	4.10
29.50	4.50	4.09
29.75	4.49	4.07
30.00	4.48	4.06
30.25	4.47	4.05
30.50	4.45	4.03
30.75	4.44	4.02
31.00	4.43	4.00
31.25	4.42	3.99
31.50	4.40	3.98
31.75	4.39	3.96
32.00	4.38	3.95

32.25	4.36	3.93
32.50	4.35	3.92
32.75	4.34	3.90
33.00	4.32	3.89
33.25	4.31	3.87
33.50	4.29	3.86
33.75	4.28	3.84
34.00	4.26	3.83
34.25	4.25	3.81
34.50	4.23	3.80
34.75	4.22	3.78
35.00	4.20	3.77
35.25	4.19	3.75
35.50	4.17	3.74
35.75	4.16	3.72
36.00	4.14	3.70
36.25	4.13	3.69
36.50	4.11	3.67
36.75	4.10	3.66
37.00	4.08	3.64
37.25	4.06	3.62
37.50	4.05	3.61
37.75	4.03	3.59
38.00	4.01	3.57
38.25	4.00	3.56
38.50	3.98	3.54
38.75	3.96	3.52
39.00	3.94	3.51
39.25	3.93	3.49
39.50	3.91	3.47
39.75	3.89	3.45
40.00	3.87	3.44
40.25	3.86	3.42
40.50	3.84	3.40

40.75	3.82	3.38
41.00	3.80	3.37
41.25	3.78	3.35
41.50	3.76	3.33
41.75	3.74	3.31
42.00	3.73	3.29
42.25	3.71	3.28
42.50	3.69	3.26
42.75	3.67	3.24
43.00	3.65	3.22
43.25	3.63	3.20
43.50	3.61	3.19
43.75	3.59	3.17
44.00	3.57	3.15
44.25	3.55	3.13
44.50	3.53	3.11
44.75	3.51	3.09
45.00	3.49	3.07
45.25	3.47	3.05
45.50	3.45	3.04
45.75	3.42	3.02
46.00	3.40	3.00
46.25	3.38	2.98
46.50	3.36	2.96
46.75	3.34	2.94
47.00	3.32	2.92
47.25	3.30	2.90
47.50	3.27	2.88
47.75	3.25	2.86
48.00	3.23	2.84
48.25	3.21	2.82
48.50	3.18	2.80
48.75	3.16	2.78
49.00	3.14	2.76

49.25	3.12	2.74
49.50	3.09	2.72
49.75	3.07	2.70
50.00	3.05	2.68
50.25	3.02	2.66
50.50	3.00	2.64
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51.00	2.95	2.60
51.25	2.93	2.58
51.50	2.91	2.56
51.75	2.88	2.54
52.00	2.86	2.52
52.25	2.83	2.50
52.50	2.81	2.47
52.75	2.78	2.45
53.00	2.76	2.43
53.25	2.74	2.41
53.50	2.71	2.39
53.75	2.69	2.37
54.00	2.66	2.35
54.25	2.64	2.33
54.50	2.61	2.31
54.75	2.58	2.29
55.00	2.56	2.26
55.25	2.53	2.24
55.50	2.51	2.22
55.75	2.48	2.20
56.00	2.46	2.18
56.25	2.43	2.16
56.50	2.40	2.13
56.75	2.38	2.11
57.00	2.35	2.09
57.25	2.32	2.07
57.50	2.30	2.05



57.75	2.27	2.03
58.00	2.24	2.00
58.25	2.22	1.98
58.50	2.19	1.96
58.75	2.16	1.94
59.00	2.14	1.92
59.25	2.11	1.89
59.50	2.08	1.87
59.75	2.05	1.85
60.00	2.02	1.83
60.25	2.00	1.81
60.50	1.97	1.78
60.75	1.94	1.76
61.00	1.91	1.74
61.25	1.88	1.72
61.50	1.86	1.69
61.75	1.83	1.67
62.00	1.80	1.65
62.25	1.77	1.63
62.50	1.74	1.60
62.75	1.71	1.58
63.00	1.68	1.56
63.25	1.66	1.54
63.50	1.63	1.51
63.75	1.60	1.49
64.00	1.57	1.47
64.25	1.54	1.45
64.50	1.51	1.42
64.75	1.48	1.40
65.00	1.45	1.38
65.25	1.42	1.36
65.50	1.39	1.33
65.75	1.36	1.31
66.00	1.33	1.29

66.25	1.30	1.27
66.50	1.27	1.24
66.75	1.24	1.22
67.00	1.21	1.20
67.25	1.18	1.17
67.50	1.15	1.15
67.75	1.12	1.13
68.00	1.09	1.11
68.25	1.06	1.08
68.50	1.03	1.06
68.75	0.99	1.04
69.00	0.96	1.01
69.25	0.93	0.99
69.50	0.90	0.97
69.75	0.87	0.94
70.00	0.84	0.92
70.25	0.81	0.90
70.50	0.78	0.88
70.75	0.75	0.85
71.00	0.71	0.83
71.25	0.68	0.81
71.50	0.65	0.78
71.75	0.62	0.76
72.00	0.59	0.74
72.25	0.56	0.72
72.50	0.52	0.69
72.75	0.49	0.67
73.00	0.46	0.65
73.25	0.43	0.62
73.50	0.40	0.60
73.75	0.36	0.58
74.00	0.33	0.56
74.25	0.30	0.53
74.50	0.27	0.51

74.75	0.24	0.49
75.00	0.20	0.46
75.25	0.17	0.44
75.50	0.14	0.42
75.75	0.11	0.40
76.00	0.07	0.37
76.25	0.04	0.35
76.50	0.01	0.33
76.75	-0.02	0.30
77.00	-0.06	0.28
77.25	-0.09	0.26
77.50	-0.12	0.24
77.75	-0.15	0.21
78.00	-0.19	0.19
78.25	-0.22	0.17
78.50	-0.25	0.15
78.75	-0.28	0.12
79.00	-0.32	0.10
79.25	-0.35	0.08
79.50	-0.38	0.05
79.75	-0.41	0.03
80.00	-0.45	0.01
80.25	-0.48	-0.01
80.50	-0.51	-0.04
80.75	-0.54	-0.06
81.00	-0.58	-0.08
81.25	-0.61	-0.10
81.50	-0.64	-0.12
81.75	-0.67	-0.15
82.00	-0.71	-0.17
82.25	-0.74	-0.19
82.50	-0.77	-0.21
82.75	-0.80	-0.24
83.00	-0.84	-0.26

83.25	-0.87	-0.28
83.50	-0.90	-0.30
83.75	-0.93	-0.32
84.00	-0.97	-0.35
84.25	-1.00	-0.37
84.50	-1.03	-0.39
84.75	-1.06	-0.41
85.00	-1.10	-0.43
85.25	-1.13	-0.46
85.50	-1.16	-0.48
85.75	-1.19	-0.50
86.00	-1.22	-0.52
86.25	-1.25	-0.54
86.50	-1.29	-0.56
86.75	-1.32	-0.59
87.00	-1.35	-0.61
87.25	-1.38	-0.63
87.50	-1.41	-0.65
87.75	-1.44	-0.67
88.00	-1.47	-0.69
88.25	-1.51	-0.71
88.50	-1.54	-0.74
88.75	-1.57	-0.76
89.00	-1.60	-0.78
89.25	-1.63	-0.80
89.50	-1.66	-0.82
89.75	-1.69	-0.84
90.00	-1.72	-0.86
90.25	-1.75	-0.88
90.50	-1.78	-0.90
90.75	-1.81	-0.93
91.00	-1.84	-0.95
91.25	-1.87	-0.97
91.50	-1.90	-0.99

91.75	-1.93	-1.01
92.00	-1.96	-1.03
92.25	-1.99	-1.05
92.50	-2.02	-1.07
92.75	-2.04	-1.09
93.00	-2.07	-1.11
93.25	-2.10	-1.13
93.50	-2.13	-1.15
93.75	-2.16	-1.17
94.00	-2.19	-1.19
94.25	-2.21	-1.21
94.50	-2.24	-1.23
94.75	-2.27	-1.25
95.00	-2.30	-1.27
95.25	-2.32	-1.29
95.50	-2.35	-1.31
95.75	-2.38	-1.33
96.00	-2.40	-1.35
96.25	-2.43	-1.37
96.50	-2.45	-1.39
96.75	-2.48	-1.41
97.00	-2.51	-1.43
97.25	-2.53	-1.45
97.50	-2.56	-1.47
97.75	-2.58	-1.49
98.00	-2.61	-1.51
98.25	-2.63	-1.52
98.50	-2.65	-1.54
98.75	-2.68	-1.56
99.00	-2.70	-1.58
99.25	-2.72	-1.60
99.50	-2.75	-1.62
99.75	-2.77	-1.64
100.00	-2.79	-1.66

100.25	-2.82	-1.68
100.50	-2.84	-1.69
100.75	-2.86	-1.71
101.00	-2.88	-1.73
101.25	-2.90	-1.75
101.50	-2.92	-1.77
101.75	-2.94	-1.79
102.00	-2.96	-1.80
102.25	-2.98	-1.82
102.50	-3.00	-1.84
102.75	-3.02	-1.86
103.00	-3.04	-1.88
103.25	-3.06	-1.89
103.50	-3.08	-1.91
103.75	-3.10	-1.93
104.00	-3.12	-1.95
104.25	-3.13	-1.96
104.50	-3.15	-1.98
104.75	-3.17	-2.00
105.00	-3.18	-2.02
105.25	-3.20	-2.03
105.50	-3.22	-2.05
105.75	-3.23	-2.07
106.00	-3.25	-2.08
106.25	-3.26	-2.10
106.50	-3.28	-2.12
106.75	-3.29	-2.13
107.00	-3.31	-2.15
107.25	-3.32	-2.17
107.50	-3.33	-2.18
107.75	-3.35	-2.20
108.00	-3.36	-2.22
108.25	-3.37	-2.23
108.50	-3.38	-2.25

108.75	-3.40	-2.27
109.00	-3.41	-2.28
109.25	-3.42	-2.30
109.50	-3.43	-2.31
109.75	-3.44	-2.33
110.00	-3.45	-2.35
110.25	-3.46	-2.36
110.50	-3.47	-2.38
110.75	-3.48	-2.39
111.00	-3.49	-2.41
111.25	-3.50	-2.42
111.50	-3.50	-2.44
111.75	-3.51	-2.45
112.00	-3.52	-2.47
112.25	-3.53	-2.48
112.50	-3.53	-2.50
112.75	-3.54	-2.51
113.00	-3.55	-2.53
113.25	-3.55	-2.54
113.50	-3.56	-2.56
113.75	-3.56	-2.57
114.00	-3.57	-2.59
114.25	-3.57	-2.60
114.50	-3.58	-2.62
114.75	-3.58	-2.63
115.00	-3.58	-2.65
115.25	-3.59	-2.66
115.50	-3.59	-2.68
115.75	-3.59	-2.69
116.00	-3.60	-2.70
116.25	-3.60	-2.72
116.50	-3.60	-2.73
116.75	-3.60	-2.75
117.00	-3.60	-2.76

117.25	-3.60	-2.77
117.50	-3.61	-2.79
117.75	-3.61	-2.80
118.00	-3.61	-2.81
118.25	-3.61	-2.83
118.50	-3.61	-2.84
118.75	-3.61	-2.85
119.00	-3.60	-2.87
119.25	-3.60	-2.88
119.50	-3.60	-2.89
119.75	-3.60	-2.91
120.00	-3.60	-2.92
120.25	-3.60	-2.93
120.50	-3.60	-2.95
120.75	-3.59	-2.96
121.00	-3.59	-2.97
121.25	-3.59	-2.98
121.50	-3.58	-3.00
121.75	-3.58	-3.01
122.00	-3.58	-3.02
122.25	-3.57	-3.03
122.50	-3.57	-3.05
122.75	-3.57	-3.06
123.00	-3.56	-3.07
123.25	-3.56	-3.08
123.50	-3.55	-3.10
123.75	-3.55	-3.11
124.00	-3.54	-3.12
124.25	-3.54	-3.13
124.50	-3.53	-3.14
124.75	-3.53	-3.15
125.00	-3.52	-3.17
125.25	-3.52	-3.18
125.50	-3.51	-3.19



125.75	-3.50	-3.20
126.00	-3.50	-3.21
126.25	-3.49	-3.22
126.50	-3.48	-3.24
126.75	-3.48	-3.25
127.00	-3.47	-3.26
127.25	-3.46	-3.27
127.50	-3.46	-3.28
127.75	-3.45	-3.29
128.00	-3.44	-3.30
128.25	-3.44	-3.31
128.50	-3.43	-3.32
128.75	-3.42	-3.34
129.00	-3.41	-3.35
129.25	-3.41	-3.36
129.50	-3.40	-3.37
129.75	-3.39	-3.38
130.00	-3.38	-3.39
130.25	-3.38	-3.40
130.50	-3.37	-3.41
130.75	-3.36	-3.42
131.00	-3.35	-3.43
131.25	-3.34	-3.44
131.50	-3.34	-3.45
131.75	-3.33	-3.46
132.00	-3.32	-3.47
132.25	-3.31	-3.48
132.50	-3.30	-3.49
132.75	-3.30	-3.50
133.00	-3.29	-3.51
133.25	-3.28	-3.52
133.50	-3.27	-3.53
133.75	-3.26	-3.54
134.00	-3.26	-3.55

134.25	-3.25	-3.56
134.50	-3.24	-3.57
134.75	-3.23	-3.58
135.00	-3.22	-3.59
135.25	-3.22	-3.60
135.50	-3.21	-3.61
135.75	-3.20	-3.62
136.00	-3.19	-3.63
136.25	-3.18	-3.63
136.50	-3.18	-3.64
136.75	-3.17	-3.65
137.00	-3.16	-3.66
137.25	-3.15	-3.67
137.50	-3.14	-3.68
137.75	-3.14	-3.69
138.00	-3.13	-3.70
138.25	-3.12	-3.71
138.50	-3.11	-3.72
138.75	-3.11	-3.72
139.00	-3.10	-3.73
139.25	-3.09	-3.74
139.50	-3.09	-3.75
139.75	-3.08	-3.76
140.00	-3.07	-3.77
140.25	-3.06	-3.78
140.50	-3.06	-3.79
140.75	-3.05	-3.79
141.00	-3.05	-3.80
141.25	-3.04	-3.81
141.50	-3.03	-3.82
141.75	-3.03	-3.83
142.00	-3.02	-3.84
142.25	-3.01	-3.84
142.50	-3.01	-3.85

142.75	-3.00	-3.86
143.00	-3.00	-3.87
143.25	-2.99	-3.88
143.50	-2.99	-3.89
143.75	-2.98	-3.89
144.00	-2.98	-3.90
144.25	-2.97	-3.91
144.50	-2.97	-3.92
144.75	-2.96	-3.93
145.00	-2.96	-3.93
145.25	-2.95	-3.94
145.50	-2.95	-3.95
145.75	-2.94	-3.96
146.00	-2.94	-3.96
146.25	-2.94	-3.97
146.50	-2.93	-3.98
146.75	-2.93	-3.99
147.00	-2.93	-4.00
147.25	-2.92	-4.00
147.50	-2.92	-4.01
147.75	-2.92	-4.02
148.00	-2.92	-4.03
148.25	-2.91	-4.03
148.50	-2.91	-4.04
148.75	-2.91	-4.05
149.00	-2.91	-4.06
149.25	-2.91	-4.06
149.50	-2.91	-4.07
149.75	-2.90	-4.08
150.00	-2.90	-4.09
150.25	-2.90	-4.09
150.50	-2.90	-4.10
150.75	-2.90	-4.11
151.00	-2.90	-4.12

151.25	-2.90	-4.12
151.50	-2.90	-4.13
151.75	-2.90	-4.14
152.00	-2.90	-4.14
152.25	-2.90	-4.15
152.50	-2.90	-4.16
152.75	-2.91	-4.17
153.00	-2.91	-4.17
153.25	-2.91	-4.18
153.50	-2.91	-4.19
153.75	-2.91	-4.19
154.00	-2.92	-4.20
154.25	-2.92	-4.21
154.50	-2.92	-4.21
154.75	-2.92	-4.22
155.00	-2.93	-4.23
155.25	-2.93	-4.24
155.50	-2.94	-4.24
155.75	-2.94	-4.25
156.00	-2.94	-4.26
156.25	-2.95	-4.26
156.50	-2.95	-4.27
156.75	-2.96	-4.28
157.00	-2.96	-4.28
157.25	-2.97	-4.29
157.50	-2.98	-4.30
157.75	-2.98	-4.30
158.00	-2.99	-4.31
158.25	-3.00	-4.32
158.50	-3.00	-4.32
158.75	-3.01	-4.33
159.00	-3.02	-4.34
159.25	-3.02	-4.34
159.50	-3.03	-4.35

159.75	-3.04	-4.36
160.00	-3.05	-4.36
160.25	-3.06	-4.37
160.50	-3.07	-4.38
160.75	-3.08	-4.38
161.00	-3.09	-4.39
161.25	-3.10	-4.40
161.50	-3.11	-4.40
161.75	-3.12	-4.41
162.00	-3.13	-4.42
162.25	-3.14	-4.42
162.50	-3.15	-4.43
162.75	-3.16	-4.44
163.00	-3.17	-4.44
163.25	-3.19	-4.45
163.50	-3.20	-4.45
163.75	-3.21	-4.46
164.00	-3.23	-4.47
164.25	-3.24	-4.47
164.50	-3.25	-4.48
164.75	-3.27	-4.49
165.00	-3.28	-4.49
165.25	-3.30	-4.50
165.50	-3.31	-4.51
165.75	-3.33	-4.51
166.00	-3.34	-4.52
166.25	-3.36	-4.52
166.50	-3.38	-4.53
166.75	-3.39	-4.54
167.00	-3.41	-4.54
167.25	-3.43	-4.55
167.50	-3.45	-4.55
167.75	-3.46	-4.56
168.00	-3.48	-4.57

168.25	-3.50	-4.57
168.50	-3.52	-4.58
168.75	-3.54	-4.58
169.00	-3.56	-4.59
169.25	-3.58	-4.60
169.50	-3.60	-4.60
169.75	-3.62	-4.61
170.00	-3.64	-4.61
170.25	-3.66	-4.62
170.50	-3.69	-4.63
170.75	-3.71	-4.63
171.00	-3.73	-4.64
171.25	-3.75	-4.64
171.50	-3.78	-4.65
171.75	-3.80	-4.65
172.00	-3.83	-4.66
172.25	-3.85	-4.67
172.50	-3.88	-4.67
172.75	-3.90	-4.68
173.00	-3.93	-4.68
173.25	-3.95	-4.69
173.50	-3.98	-4.69
173.75	-4.01	-4.70
174.00	-4.03	-4.70
174.25	-4.06	-4.71
174.50	-4.09	-4.71
174.75	-4.12	-4.72
175.00	-4.15	-4.73
175.25	-4.18	-4.73
175.50	-4.21	-4.74
175.75	-4.24	-4.74
176.00	-4.27	-4.75
176.25	-4.30	-4.75
176.50	-4.33	-4.76

176.75	-4.36	-4.76
177.00	-4.40	-4.77
177.25	-4.43	-4.77
177.50	-4.46	-4.78
177.75	-4.50	-4.78
178.00	-4.53	-4.79
178.25	-4.57	-4.79
178.50	-4.60	-4.80
178.75	-4.64	-4.80
179.00	-4.67	-4.80
179.25	-4.71	-4.81
179.50	-4.75	-4.81
179.75	-4.78	-4.82