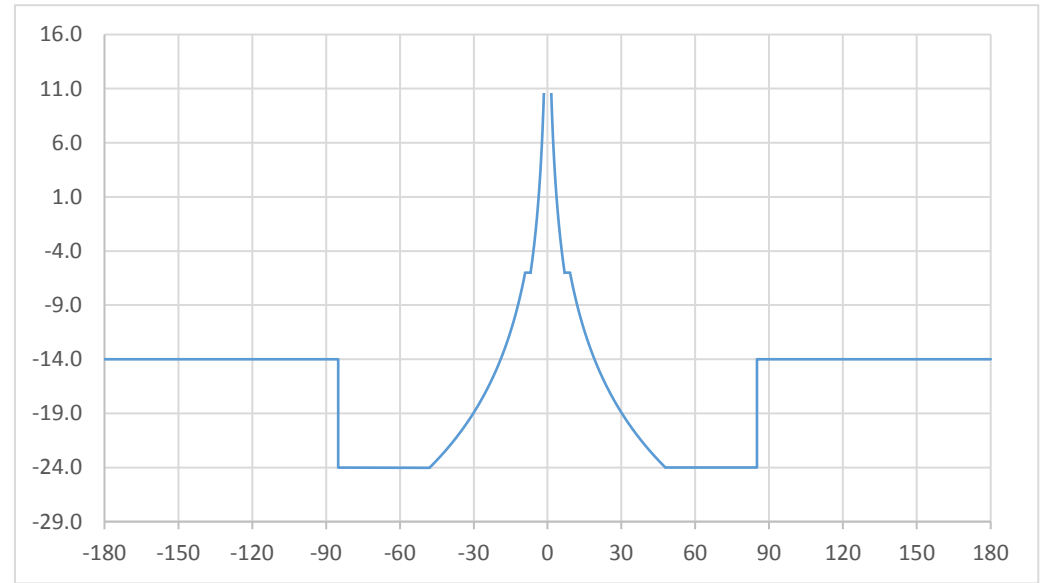


	dBW/4 kHz		dBW/4 kHz
1.5	10.6	-180.0	-14.0
1.6	9.9	-85.001	-14.0
1.7	9.2	-85.000	-24.0
1.8	8.6	-48.0	-24.0
1.9	8.0		
2.0	7.5	-48.0	-24.0
2.1	6.9	-47.0	-23.8
2.2	6.4	-46.0	-23.6
2.3	6.0	-45.0	-23.3
2.4	5.5	-44.0	-23.1
2.5	5.1	-43.0	-22.8
2.6	4.6	-42.0	-22.6
2.7	4.2	-41.0	-22.3
2.8	3.8	-40.0	-22.1
2.9	3.4	-39.0	-21.8
3.0	3.1	-38.0	-21.5
3.1	2.7	-37.0	-21.2
3.2	2.4	-36.0	-20.9
3.3	2.0	-35.0	-20.6
3.4	1.7	-34.0	-20.3
3.5	1.4	-33.0	-20.0
3.6	1.1	-32.0	-19.6
3.7	0.8	-31.0	-19.3
3.8	0.5	-30.0	-18.9
3.9	0.2	-29.0	-18.6
4.0	-0.1	-28.0	-18.2
4.1	-0.3	-27.0	-17.8
4.2	-0.6	-26.0	-17.4
4.3	-0.8	-25.0	-16.9
4.4	-1.1	-24.0	-16.5
4.5	-1.3	-23.0	-16.0
4.6	-1.6	-22.0	-15.6
4.7	-1.8	-21.0	-15.1
4.8	-2.0	-20.0	-14.5
4.9	-2.3	-19.0	-14.0
5.0	-2.5	-18.0	-13.4



5.1	-2.7	-17.0	-12.8
5.2	-2.9	-16.0	-12.1
5.3	-3.1	-15.0	-11.4
5.4	-3.3	-14.0	-10.7
5.5	-3.5	-13.0	-9.8
5.6	-3.7	-12.0	-9.0
5.7	-3.9	-11.0	-8.0
5.8	-4.1	-10.0	-7.0
5.9	-4.3	-9.3	-6.2
6.0	-4.5	-9.20100	-6.0959
6.1	-4.6		
6.2	-4.8	-9.2	-6.0
6.3	-5.0	-7.010	-6.0
6.4	-5.2		
6.5	-5.3	-7.0	-6.127
6.6	-5.5	-6.9	-5.971
6.7	-5.7	-6.8	-5.8
6.8	-5.8	-6.7	-5.7
6.9	-6.0	-6.6	-5.5
7.000	-6.1	-6.5	-5.3
		-6.4	-5.2
7.001	-6.0	-6.3	-5.0
9.2	-6.0	-6.2	-4.8
		-6.1	-4.6
		-6.0	-4.5
9.201	-6.1	-5.9	-4.3
10.0	-7.0	-5.8	-4.1
11.0	-8.0	-5.7	-3.9
12.0	-9.0	-5.6	-3.7
13.0	-9.8	-5.5	-3.5
14.0	-10.7	-5.4	-3.3
15.0	-11.4	-5.3	-3.1
16.0	-12.1	-5.2	-2.9
17.0	-12.8	-5.1	-2.7
18.0	-13.4	-5.0	-2.5
19.0	-14.0	-4.9	-2.3
20.0	-14.5	-4.8	-2.0
21.0	-15.1	-4.7	-1.8
22.0	-15.6	-4.6	-1.6

23.0	-16.0	-4.5	-1.3
24.0	-16.5	-4.4	-1.1
25.0	-16.9	-4.3	-0.8
26.0	-17.4	-4.2	-0.6
27.0	-17.8	-4.1	-0.3
28.0	-18.2	-4.0	-0.1
29.0	-18.6	-3.9	0.2
30.0	-18.9	-3.8	0.5
31.0	-19.3	-3.7	0.8
32.0	-19.6	-3.6	1.1
33.0	-20.0	-3.5	1.4
34.0	-20.3	-3.4	1.7
35.0	-20.6	-3.3	2.0
36.0	-20.9	-3.2	2.4
37.0	-21.2	-3.1	2.7
38.0	-21.5	-3.0	3.1
39.0	-21.8	-2.9	3.4
40.0	-22.1	-2.8	3.8
41.0	-22.3	-2.7	4.2
42.0	-22.6	-2.6	4.6
43.0	-22.8	-2.5	5.1
44.0	-23.1	-2.4	5.5
45.0	-23.3	-2.3	6.0
46.0	-23.6	-2.2	6.4
47.0	-23.8	-2.1	6.9
48.0	-24.0	-2.0	7.5
		-1.9	8.0
48.001	-24.0	-1.8	8.6
85.0	-24.0	-1.7	9.2
85.001	-14.0	-1.6	9.9
180.0	-14.0	-1.5	10.6

The QCT90 uses an elliptical antenna that does not rotate to align the major axis tangent to the satellite arc. Because of this we will limit the power spectral density into the feed to meet the most stringent off-axis EIRP density mask in the elevation plane at 14.000 GHz which is the worst case for pattern compliance.

We will limit our pointing error to ≤ 0.5 degrees.

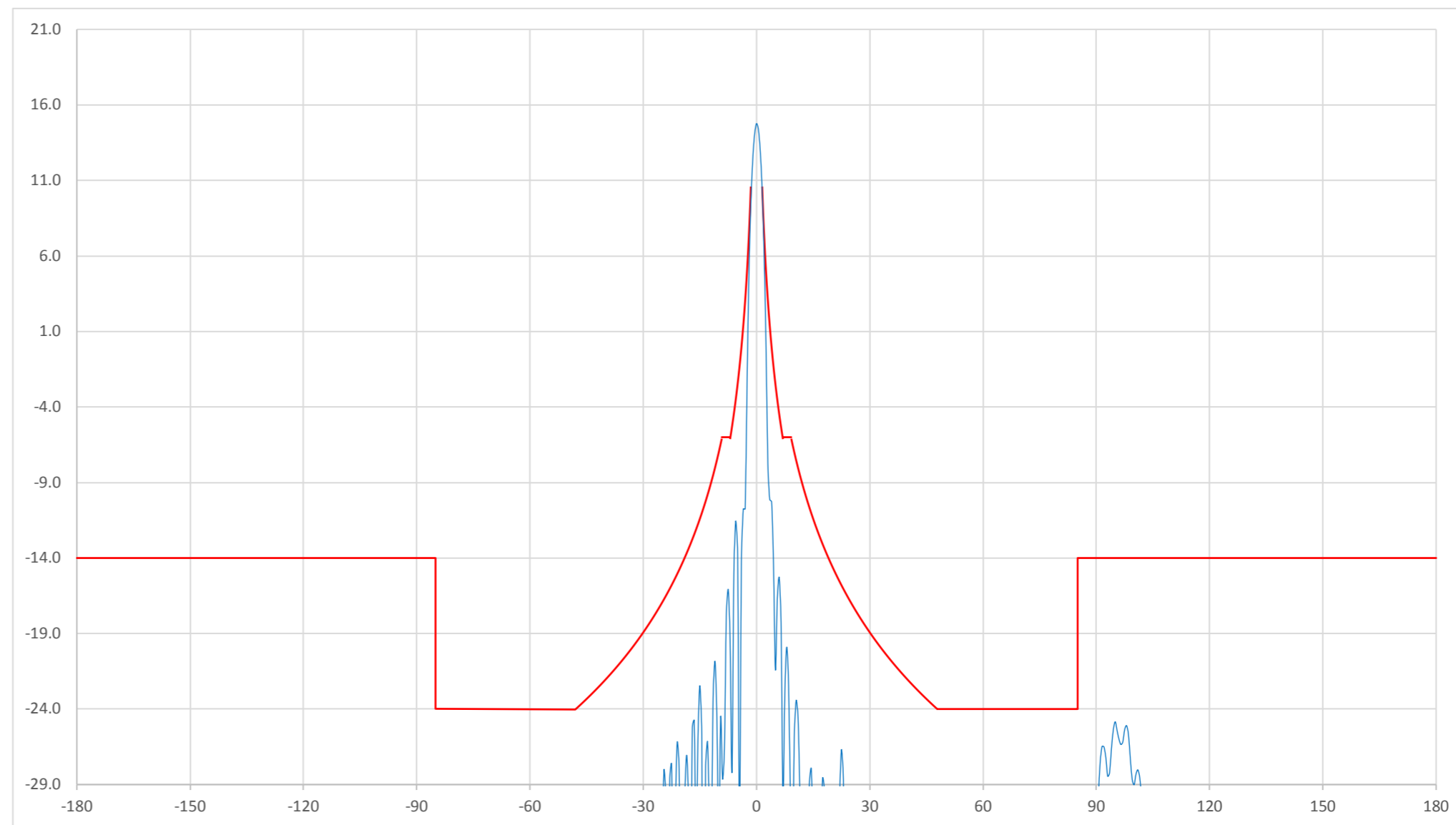
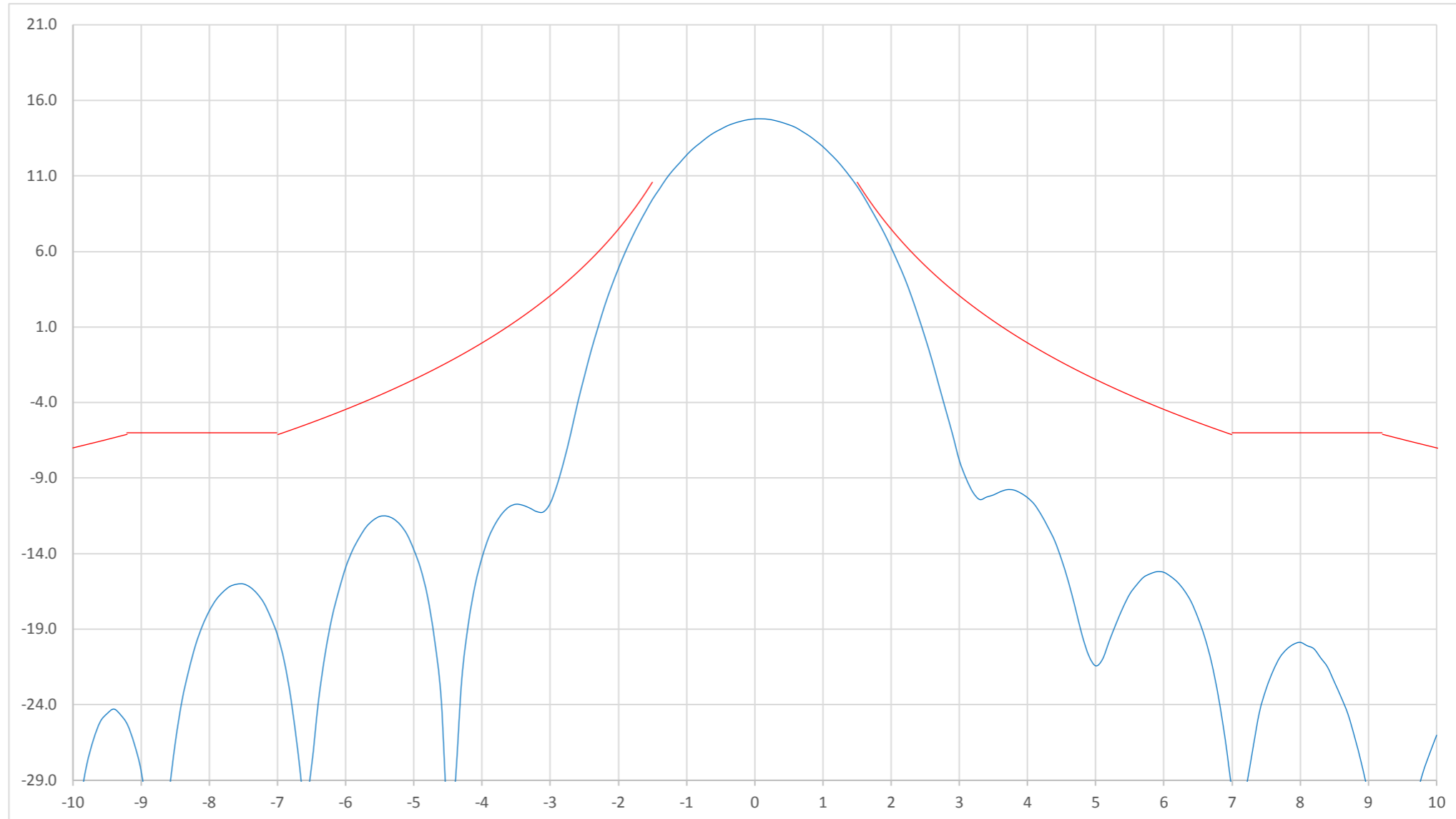
Tx H EI 14000

Feed Power Spectral Density - 24.8 dBW/4 kHz

Geostationary Orbit Plane Table

Elevation Plane Table

Theta	Gain (dBi)	EIRP Density	Theta	Gain (dBi)	EIRP Density
-180.0	-18.2	-43.0	-10.0	-8.6	-33.4
-179.5	-21.1	-45.9	-9.9	-5.7	-30.5
-179.0	-20.8	-45.6	-9.8	-3.2	-28.0
-178.5	-19.2	-44.0	-9.7	-1.5	-26.3
-178.0	-18.4	-43.2	-9.6	-0.3	-25.1
-177.5	-14.3	-39.1	-9.5	0.2	-24.6
-177.0	-13.8	-38.6	-9.4	0.5	-24.3
-176.5	-14.2	-39.0	-9.3	0.1	-24.7
-176.0	-17.8	-42.6	-9.2	-0.5	-25.3
-175.5	-25.1	-49.9	-9.1	-1.8	-26.6
-175.0	-26.6	-51.4	-9.0	-3.6	-28.4
-174.5	-20.3	-45.1	-8.9	-6.8	-31.6
-174.0	-18.2	-43.0	-8.8	-10.7	-35.5
-173.5	-18.5	-43.3	-8.7	-10.2	-35.0
-173.0	-21.8	-46.6	-8.6	-5.5	-30.3
-172.5	-24.0	-48.8	-8.5	-1.7	-26.5
-172.0	-30.4	-55.2	-8.4	1.1	-23.7
-171.5	-14.8	-39.6	-8.3	3.1	-21.7
-171.0	-10.2	-35.0	-8.2	4.8	-20.0
-170.5	-9.8	-34.6	-8.1	6.0	-18.8
-170.0	-12.7	-37.5	-8.0	7.0	-17.8
-169.5	-15.6	-40.4	-7.9	7.8	-17.0
-169.0	-16.3	-41.1	-7.8	8.3	-16.5
-168.5	-14.4	-39.2	-7.7	8.6	-16.2
-168.0	-14.2	-39.0	-7.6	8.8	-16.0
-167.5	-17.3	-42.1	-7.5	8.8	-16.0
-167.0	-33.6	-58.4	-7.4	8.6	-16.2
-166.5	-18.3	-43.1	-7.3	8.2	-16.6
-166.0	-12.5	-37.3	-7.2	7.5	-17.3
-165.5	-11.7	-36.5	-7.1	6.6	-18.2
-165.0	-13.5	-38.3	-7.0	5.4	-19.4
-164.5	-16.3	-41.1	-6.9	3.7	-21.1
-164.0	-15.6	-40.4	-6.8	1.1	-23.7
-163.5	-14.2	-39.0	-6.7	-2.3	-27.1
-163.0	-14.9	-39.7	-6.6	-5.8	-30.6
-162.5	-15.5	-40.3	-6.5	-3.2	-28.0
-162.0	-15.0	-39.8	-6.4	1.0	-23.8
-161.5	-14.7	-39.5	-6.3	4.2	-20.6
-161.0	-17.3	-42.1	-6.2	6.6	-18.2
-160.5	-12.4	-37.2	-6.1	8.4	-16.4
-160.0	-10.5	-35.3	-6.0	9.9	-14.9
-159.5	-12.1	-36.9	-5.9	11.0	-13.8
-159.0	-16.3	-41.1	-5.8	11.9	-12.9
-158.5	-13.3	-38.1	-5.7	12.6	-12.2
-158.0	-11.1	-35.9	-5.6	13.0	-11.8
-157.5	-12.9	-37.7	-5.5	13.3	-11.5
-157.0	-18.1	-42.9	-5.4	13.3	-11.5
-156.5	-24.6	-49.4	-5.3	13.1	-11.7
-156.0	-27.6	-52.4	-5.2	12.7	-12.1
-155.5	-17.7	-42.5	-5.1	12.1	-12.7
-155.0	-14.3	-39.1	-5.0	11.1	-13.7
-154.5	-16.0	-40.8	-4.9	9.8	-15.0
-154.0	-26.7	-51.5	-4.8	8.0	-16.8
-153.5	-16.7	-41.5	-4.7	5.2	-19.6
-153.0	-12.2	-37.0	-4.6	1.2	-23.6
-152.5	-10.3	-35.1	-4.5	-7.0	-31.8
-152.0	-12.1	-36.9	-4.4	-4.7	-29.5
-151.5	-16.8	-41.6	-4.3	2.4	-22.4
-151.0	-17.1	-41.9	-4.2	6.2	-18.6
-150.5	-13.2	-38.0	-4.1	8.8	-16.0
-150.0	-14.0	-38.8	-4.0	10.5	-14.3
-149.5	-18.6	-43.4	-3.9	11.9	-12.9
-149.0	-23.2	-48.0	-3.8	12.8	-12.0
-148.5	-18.8	-43.6	-3.7	13.5	-11.3
-148.0	-12.5	-37.3	-3.6	13.9	-10.9
-147.5	-9.4	-34.2	-3.5	14.1	-10.7
-147.0	-8.8	-33.6	-3.4	14.0	-10.8
-146.5	-13.4	-38.2	-3.3	13.8	-11.0
-146.0	-32.4	-57.2	-3.2	13.6	-11.2
-145.5	-15.4	-40.2	-3.1	13.6	-11.2
-145.0	-12.5	-37.3	-3.0	14.1	-10.7
-144.5	-13.2	-38.0	-2.9	15.3	-9.5
-144.0	-18.9	-43.7	-2.8	16.9	-7.9
-143.5	-22.3	-47.1	-2.7	18.7	-6.1
-143.0	-16.4	-41.2	-2.6	20.7	-4.1
-142.5	-16.9	-41.7	-2.5	22.5	-2.3
-142.0	-20.8	-45.6	-2.4	24.2	-0.6
-141.5	-21.4	-46.2	-2.3	25.8	1.0
-141.0	-21.8	-46.6	-2.2	27.2	2.4
-140.5	-19.7	-44.5	-2.1	28.5	3.7
-140.0	-13.3	-38.1	-2.0	29.7	4.9
-139.5	-11.8	-36.6	-1.9	30.8	6.0
-139.0	-15.6	-40.4	-1.8	31.7	6.9
-138.5	-25.9	-50.7	-1.7	32.6	7.8
-138.0	-22.4	-47.2	-1.6	33.5	8.7
-137.5	-19.6	-44.4	-1.5	34.3	9.5
-137.0	-22.7	-47.5	-1.4	34.9	10.1
-136.5	-29.7	-54.5	-1.3	35.6	10.8
-136.0	-25.9	-50.7	-1.2	36.2	11.4
-135.5	-20.3	-45.1	-1.1	36.7	11.9
-135.0	-17.3	-42.1	-1.0	37.2	12.4
-134.5	-18.0	-42.8	-0.9	37.6	12.8
-134.0	-22.0	-46.8	-0.8	38.0	13.2
-133.5	-19.6	-44.4	-0.7	38.3	13.5
-133.0	-19.4	-44.2	-0.6	38.7	13.9
-132.5	-19.8	-44.6	-0.5	38.9	14.1
-132.0	-18.9	-43.7	-0.4	39.1	14.3
-131.5	-16.4	-41.2	-0.3	39.3	14.5
-131.0	-20.7	-45.5	-0.2	39.4	14.6
-130.5	-29.4	-54.2	-0.1	39.5	14.7
-130.0	-18.1	-42.9	0.0	39.6	14.8
-129.5	-15.0	-39.8	0.1	39.6	14.8
-129.0	-19.3	-44.1	0.2	39.5	14.7
-128.5	-30.4	-55.2	0.3	39.5	14.7
-128.0	-15.4	-40.2	0.4	39.3	14.5
-127.5	-12.8	-37.6	0.5	39.2	14.4
-127.0	-15.8	-40.6	0.6	39.0	14.2
-126.5	-28.2	-53.0	0.7	38.7	13.9
-126.0	-17.0	-41.8	0.8	38.4	13.6
-125.5	-15.9	-40.7	0.9	38.1	13.3



-125.0	-24.3	-49.1	1.0	37.7	12.9
-124.5	-20.8	-45.6	1.1	37.3	12.5
-124.0	-15.3	-40.1	1.2	36.8	12.0
-123.5	-15.8	-40.6	1.3	36.3	11.5
-123.0	-22.0	-46.8	1.4	35.7	10.9
-122.5	-26.9	-51.7	1.5	35.1	10.3
-122.0	-20.3	-45.1	1.6	34.4	9.6
-121.5	-20.2	-45.0	1.7	33.6	8.8
-121.0	-22.4	-47.2	1.8	32.8	8.0
-120.5	-20.4	-45.2	1.9	32.0	7.2
-120.0	-18.4	-43.2	2.0	31.1	6.3
-119.5	-17.0	-41.8	2.1	30.1	5.3
-119.0	-16.9	-41.7	2.2	29.0	4.2
-118.5	-20.2	-45.0	2.3	27.8	3.0
-118.0	-21.4	-46.2	2.4	26.5	1.7
-117.5	-16.5	-41.3	2.5	25.1	0.3
-117.0	-17.7	-42.5	2.6	23.6	-1.2
-116.5	-25.3	-50.1	2.7	21.9	-2.9
-116.0	-26.7	-51.5	2.8	20.3	-4.5
-115.5	-18.4	-43.2	2.9	18.7	-6.1
-115.0	-17.6	-42.4	3.0	17.0	-7.8
-114.5	-23.4	-48.2	3.1	15.8	-9.0
-114.0	-22.3	-47.1	3.2	14.9	-9.9
-113.5	-16.5	-41.3	3.3	14.4	-10.4
-113.0	-15.0	-39.8	3.4	14.5	-10.3
-112.5	-18.5	-43.3	3.5	14.7	-10.1
-112.0	-21.6	-46.4	3.6	14.9	-9.9
-111.5	-15.3	-40.1	3.7	15.0	-9.8
-111.0	-13.8	-38.6	3.8	15.0	-9.8
-110.5	-15.7	-40.5	3.9	14.8	-10.0
-110.0	-23.1	-47.9	4.0	14.5	-10.3
-109.5	-21.2	-46.0	4.1	14.1	-10.7
-109.0	-17.0	-41.8	4.2	13.4	-11.4
-108.5	-16.5	-41.3	4.3	12.6	-12.2
-108.0	-19.1	-43.9	4.4	11.6	-13.2
-107.5	-18.8	-43.6	4.5	10.4	-14.4
-107.0	-18.3	-43.1	4.6	8.9	-15.9
-106.5	-15.2	-40.0	4.7	7.2	-17.6
-106.0	-14.5	-39.3	4.8	5.4	-19.4
-105.5	-15.9	-40.7	4.9	4.0	-20.8
-105.0	-18.5	-43.3	5.0	3.4	-21.4
-104.5	-19.9	-44.7	5.1	3.8	-21.0
-104.0	-17.4	-42.2	5.2	5.0	-19.8
-103.5	-16.9	-41.7	5.3	6.2	-18.6
-103.0	-17.2	-42.0	5.4	7.2	-17.6
-102.5	-22.1	-46.9	5.5	8.1	-16.7
-102.0	-21.8	-46.6	5.6	8.7	-16.1
-101.5	-19.4	-44.2	5.7	9.2	-15.6
-101.0	-22.6	-47.4	5.8	9.5	-15.3
-100.5	-35.3	-60.1	5.9	9.6	-15.2
-100.0	-21.6	-46.4	6.0	9.6	-15.2
-99.5	-15.2	-40.0	6.1	9.3	-15.5
-99.0	-14.9	-39.7	6.2	8.9	-15.9
-98.5	-15.8	-40.6	6.3	8.4	-16.4
-98.0	-20.9	-45.7	6.4	7.6	-17.2
-97.5	-27.5	-52.3	6.5	6.5	-18.3
-97.0	-17.6	-42.4	6.6	5.3	-19.5
-96.5	-11.1	-35.9	6.7	3.6	-21.2
-96.0	-9.9	-34.7	6.8	1.3	-23.5
-95.5	-11.8	-36.6	6.9	-1.5	-26.3
-95.0	-17.8	-42.6	7.0	-4.8	-29.6
-94.5	-24.9	-49.7	7.1	-6.9	-31.7
-94.0	-14.0	-38.8	7.2	-4.8	-29.6
-93.5	-11.2	-36.0	7.3	-2.2	-27.0
-93.0	-10.6	-35.4	7.4	0.3	-24.5
-92.5	-12.1	-36.9	7.5	1.9	-22.9
-92.0	-15.4	-40.2	7.6	3.0	-21.8
-91.5	-21.9	-46.7	7.7	3.9	-20.9
-91.0	-17.7	-42.5	7.8	4.5	-20.3
-90.5	-15.5	-40.3	7.9	4.8	-20.0
-90.0	-17.0	-41.8	8.0	4.9	-19.9
-89.5	-23.7	-48.5	8.1	4.7	-20.1
-89.0	-22.7	-47.5	8.2	4.5	-20.3
-88.5	-21.1	-45.9	8.3	3.9	-20.9
-88.0	-17.4	-42.2	8.4	3.3	-21.5
-87.5	-13.4	-38.2	8.5	2.3	-22.5
-87.0	-10.7	-35.5	8.6	1.3	-23.5
-86.5	-11.8	-36.6	8.7	0.2	-24.6
-86.0	-14.1	-38.9	8.8	-1.4	-26.2
-85.5	-16.9	-41.7	8.9	-3.1	-27.9
-85.0	-25.0	-49.8	9.0	-5.2	-30.0
-84.5	-22.6	-47.4	9.1	-8.3	-33.1
-84.0	-14.1	-38.9	9.2	-13.4	-38.2
-83.5	-10.4	-35.2	9.3	-26.4	-51.2
-83.0	-9.5	-34.3	9.4	-19.3	-44.1
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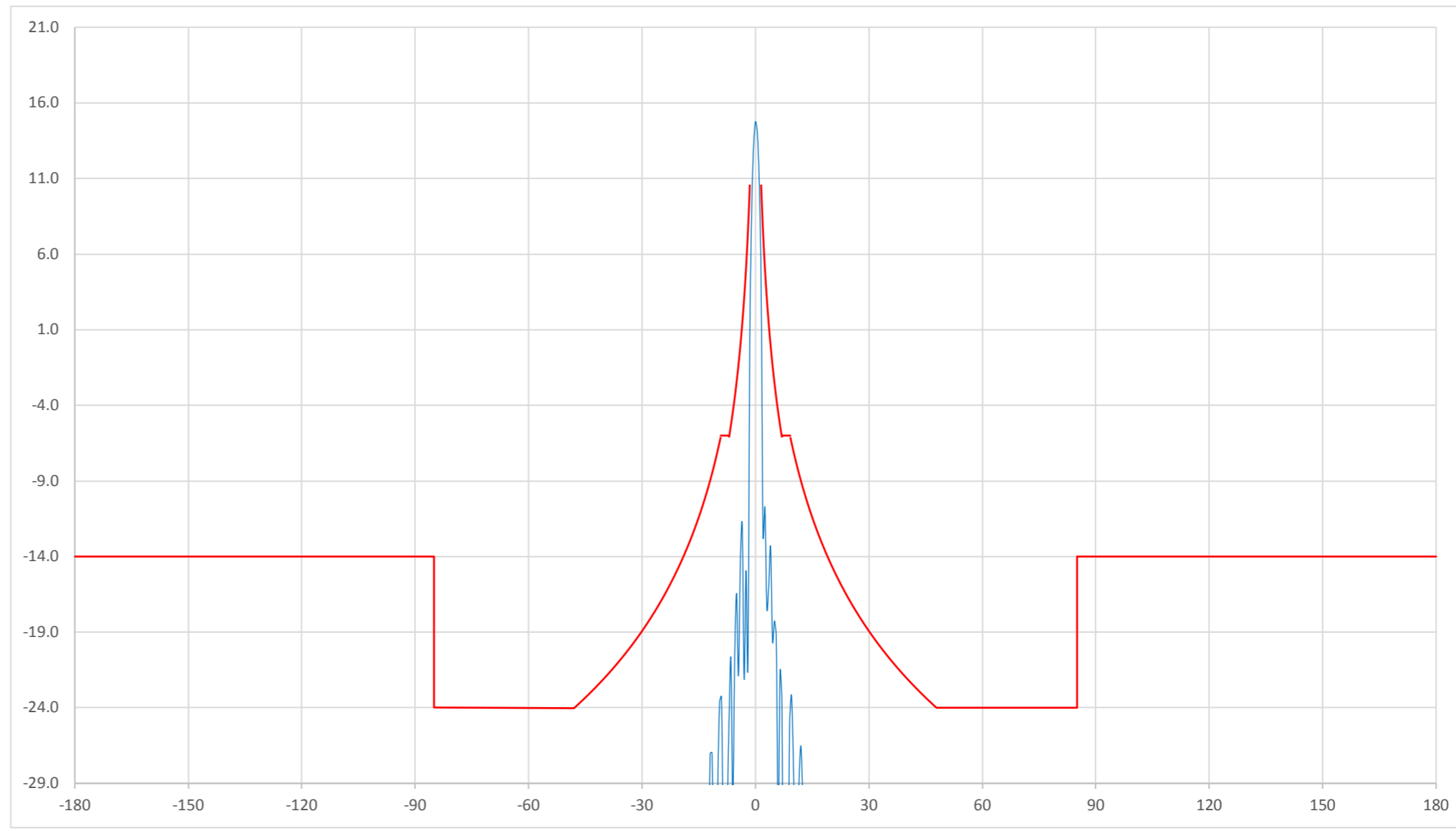
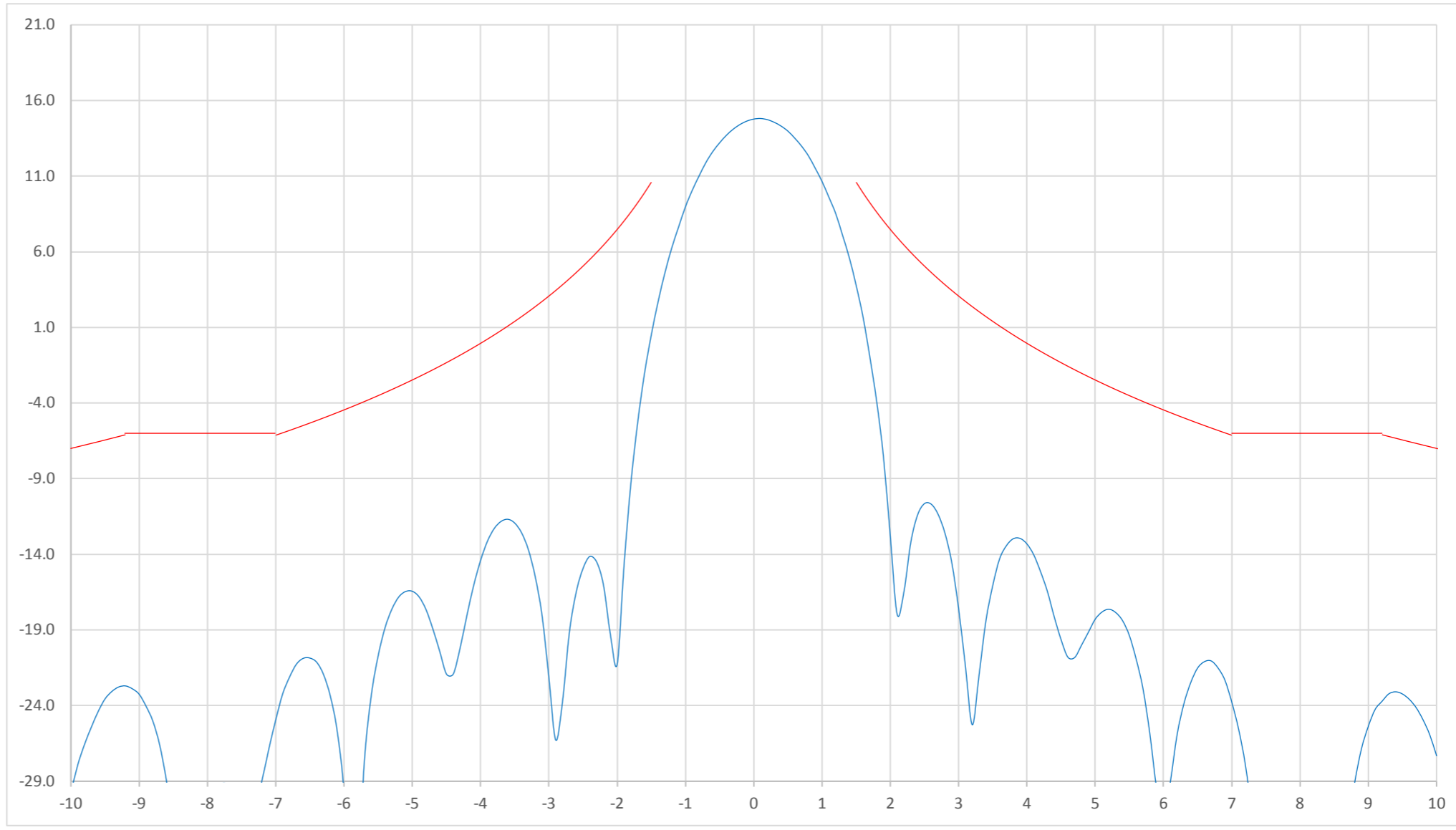
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174.5	-32.5	-57.3
175.0	-20.5	-45.3
175.5	-17.3	-42.1
176.0	-19.6	-44.4
176.5	-16.4	-41.2
177.0	-13.5	-38.3
177.5	-13.4	-38.2
178.0	-19.8	-44.6
178.5	-19.0	-43.8
179.0	-19.0	-43.8
180.0	-18.2	-43.0

Tx H EI 14000

Feed Power Spectral Density - 24.8 dBW/4 kHz

Horizon Plane Table

Theta	Gain (dBi)	EIRP Density	Theta	Gain (dBi)	EIRP Density
-180.0	-16.4	-41.2	-10.0	-5.0	-29.8
-179.5	-14.9	-39.7	-9.9	-3.1	-27.9
-179.0	-13.4	-38.2	-9.8	-1.8	-26.6
-178.5	-12.0	-36.8	-9.7	-0.6	-25.4
-178.0	-12.7	-37.5	-9.6	0.4	-24.4
-177.5	-14.3	-39.1	-9.5	1.2	-23.6
-177.0	-16.7	-41.5	-9.4	1.7	-23.1
-176.5	-18.5	-43.3	-9.3	2.0	-22.8
-176.0	-19.1	-43.9	-9.2	2.1	-22.7
-175.5	-17.1	-41.9	-9.1	1.9	-22.9
-175.0	-15.3	-40.1	-9.0	1.5	-23.3
-174.5	-14.7	-39.5	-8.9	0.8	-24.0
-174.0	-14.2	-39.0	-8.8	-0.2	-25.0
-173.5	-13.9	-38.7	-8.7	-1.8	-26.6
-173.0	-15.4	-40.2	-8.6	-4.2	-29.0
-172.5	-17.8	-42.6	-8.5	-7.3	-32.1
-172.0	-21.3	-46.1	-8.4	-11.8	-36.6
-171.5	-25.5	-50.3	-8.3	-17.5	-42.3
-171.0	-27.1	-51.9	-8.2	-24.4	-47.2
-170.5	-32.0	-56.8	-8.1	-32.3	-51.2
-170.0	-34.1	-58.9	-8.0	-40.2	-54.2
-169.5	-35.6	-60.4	-7.9	-47.2	-56.2
-169.0	-31.2	-56.0	-7.8	-53.2	-57.2
-168.5	-24.1	-48.9	-7.7	-58.2	-57.2
-168.0	-19.3	-44.1	-7.6	-62.2	-56.2
-167.5	-16.1	-40.9	-7.5	-65.2	-54.2
-167.0	-14.4	-39.2	-7.4	-67.2	-51.2
-166.5	-15.5	-40.3	-7.3	-68.2	-47.2
-166.0	-17.9	-42.7	-7.2	-68.2	-42.2
-165.5	-20.9	-45.7	-7.1	-67.2	-36.2
-165.0	-21.8	-46.6	-7.0	-65.2	-29.2
-164.5	-17.3	-42.1	-6.9	-62.2	-21.2
-164.0	-14.7	-39.5	-6.8	-58.2	-12.2
-163.5	-12.7	-37.5	-6.7	-53.2	-2.2
-163.0	-11.9	-36.7	-6.6	-48.2	7.8
-162.5	-11.8	-36.6	-6.5	-43.2	17.8
-162.0	-11.5	-36.3	-6.4	-38.2	27.8
-161.5	-11.6	-36.4	-6.3	-33.2	37.8
-161.0	-12.3	-37.1	-6.2	-28.2	47.8
-160.5	-13.6	-38.4	-6.1	-23.2	57.8
-160.0	-16.1	-40.9	-6.0	-18.2	67.8
-159.5	-19.6	-44.4	-5.9	-13.2	77.8
-159.0	-26.9	-51.7	-5.8	-8.2	87.8
-158.5	-27.1	-51.9	-5.7	-3.2	97.8
-158.0	-18.7	-43.5	-5.6	1.8	107.8
-157.5	-15.7	-40.5	-5.5	6.8	117.8
-157.0	-15.7	-40.5	-5.4	11.8	127.8
-156.5	-15.6	-40.4	-5.3	16.8	137.8
-156.0	-15.7	-40.5	-5.2	21.8	147.8
-155.5	-17.0	-41.8	-5.1	26.8	157.8
-155.0	-19.6	-44.4	-5.0	31.8	167.8
-154.5	-22.8	-47.6	-4.9	36.8	177.8
-154.0	-21.7	-46.5	-4.8	41.8	187.8
-153.5	-18.5	-43.3	-4.7	46.8	197.8
-153.0	-16.1	-40.9	-4.6	51.8	207.8
-152.5	-14.6	-39.4	-4.5	56.8	217.8
-152.0	-15.0	-39.8	-4.4	61.8	227.8
-151.5	-16.2	-41.0	-4.3	66.8	237.8
-151.0	-18.5	-43.3	-4.2	71.8	247.8
-150.5	-23.2	-48.0	-4.1	76.8	257.8
-150.0	-26.7	-51.5	-4.0	81.8	267.8
-149.5	-24.8	-49.6	-3.9	86.8	277.8
-149.0	-22.3	-47.1	-3.8	91.8	287.8
-148.5	-21.9	-46.7	-3.7	96.8	297.8
-148.0	-17.6	-42.4	-3.6	101.8	307.8
-147.5	-16.5	-41.3	-3.5	106.8	317.8
-147.0	-15.0	-39.8	-3.4	111.8	327.8
-146.5	-15.1	-39.9	-3.3	116.8	337.8
-146.0	-14.0	-38.8	-3.2	121.8	347.8
-145.5	-14.2	-39.0	-3.1	126.8	357.8
-145.0	-15.1	-39.9	-3.0	131.8	367.8
-144.5	-17.2	-42.0	-2.9	136.8	377.8
-144.0	-20.4	-45.2	-2.8	141.8	387.8
-143.5	-27.0	-51.8	-2.7	146.8	397.8
-143.0	-24.4	-49.2	-2.6	151.8	407.8
-142.5	-18.1	-42.9	-2.5	156.8	417.8
-142.0	-16.8	-41.6	-2.4	161.8	427.8
-141.5	-15.1	-39.9	-2.3	166.8	437.8
-141.0	-16.4	-41.2	-2.2	171.8	447.8
-140.5	-19.8	-44.6	-2.1	176.8	457.8
-140.0	-25.7	-50.5	-2.0	181.8	467.8
-139.5	-22.7	-47.5	-1.9	186.8	477.8
-139.0	-19.6	-44.4	-1.8	191.8	487.8
-138.5	-18.0	-42.8	-1.7	196.8	497.8
-138.0	-17.9	-42.7	-1.6	201.8	507.8
-137.5	-18.0	-42.8	-1.5	206.8	517.8
-137.0	-20.6	-45.4	-1.4	211.8	527.8
-136.5	-21.7	-46.5	-1.3	216.8	537.8
-136.0	-23.2	-48.0	-1.2	221.8	547.8
-135.5	-20.7	-45.5	-1.1	226.8	557.8
-135.0	-21.5	-46.3	-1.0	231.8	567.8
-134.5	-21.7	-46.5	-0.9	236.8	577.8
-134.0	-25.3	-50.1	-0.8	241.8	587.8
-133.5	-30.1	-54.9	-0.7	246.8	597.8
-133.0	-38.2	-63.0	-0.6	251.8	607.8
-132.5	-24.6	-49.4	-0.5	256.8	617.8
-132.0	-18.3	-43.1	-0.4	261.8	627.8
-131.5	-14.8	-39.6	-0.3	266.8	637.8
-131.0	-13.8	-38.6	-0.2	271.8	647.8
-130.5	-13.3	-38.1	-0.1	276.8	657.8
-130.0	-14.7	-39.5	0.0	281.8	667.8
-129.5	-19.3	-44.1	0.1	286.8	677.8
-129.0	-28.0	-52.8	0.2	291.8	687.8
-128.5	-22.2	-47.0	0.3	296.8	697.8
-128.0	-16.5	-41.3	0.4	301.8	707.8
-127.5	-14.4	-39.2	0.5	306.8	717.8
-127.0	-14.8	-39.6	0.6	311.8	727.8
-126.5	-16.8	-41.6	0.7	316.8	737.8
-126.0	-24.0	-48.8	0.8	321.8	747.8
-125.5	-23.5	-48.3	0.9	326.8	757.8
-125.0	-17.7	-42.5	1.0	331.8	767.8



-124.5	-15.4	-40.2	1.1	34.4	9.6
-124.0	-16.2	-41.0	1.2	33.3	8.5
-123.5	-16.7	-41.5	1.3	31.9	7.1
-123.0	-18.9	-43.7	1.4	30.4	5.6
-122.5	-18.0	-42.8	1.5	28.6	3.8
-122.0	-15.8	-40.6	1.6	26.5	1.7
-121.5	-14.4	-39.2	1.7	23.8	-1.0
-121.0	-14.2	-39.0	1.8	20.9	-3.9
-120.5	-16.9	-41.7	1.9	17.2	-7.6
-120.0	-23.2	-48.0	2.0	12.0	-12.8
-119.5	-22.4	-47.2	2.1	6.8	-18.0
-119.0	-17.2	-42.0	2.2	8.3	-16.5
-118.5	-13.8	-38.6	2.3	11.6	-13.2
-118.0	-13.3	-38.1	2.4	13.4	-11.4
-117.5	-14.4	-39.2	2.5	14.2	-10.6
-117.0	-17.9	-42.7	2.6	14.1	-10.7
-116.5	-22.5	-47.3	2.7	13.4	-11.4
-116.0	-20.0	-44.8	2.8	12.2	-12.6
-115.5	-18.0	-42.8	2.9	10.2	-14.6
-115.0	-19.5	-44.3	3.0	7.2	-17.6
-114.5	-23.2	-48.0	3.1	3.4	-21.4
-114.0	-20.9	-45.7	3.2	-0.5	-25.3
-113.5	-16.8	-41.6	3.3	2.8	-22.0
-113.0	-15.7	-40.5	3.4	6.4	-18.4
-112.5	-15.3	-40.1	3.5	8.7	-16.1
-112.0	-18.7	-43.5	3.6	10.5	-14.3
-111.5	-27.7	-52.5	3.7	11.4	-13.4
-111.0	-23.6	-48.4	3.8	11.8	-13.0
-110.5	-17.2	-42.0	3.9	11.9	-12.9
-110.0	-19.0	-43.8	4.0	11.5	-13.3
-109.5	-25.4	-50.2	4.1	10.8	-14.0
-109.0	-22.9	-47.7	4.2	9.7	-15.1
-108.5	-15.2	-40.0	4.3	8.4	-16.4
-108.0	-13.2	-38.0	4.4	6.7	-18.1
-107.5	-13.0	-37.8	4.5	5.2	-19.6
-107.0	-15.0	-39.8	4.6	4.0	-20.8
-106.5	-21.0	-45.8	4.7	4.0	-20.8
-106.0	-28.9	-53.7	4.8	4.8	-20.0
-105.5	-19.0	-43.8	4.9	5.6	-19.2
-105.0	-16.3	-41.1	5.0	6.5	-18.3
-104.5	-17.4	-42.2	5.1	7.0	-17.8
-104.0	-25.9	-50.7	5.2	7.2	-17.6
-103.5	-25.4	-50.2	5.3	7.0	-17.8
-103.0	-18.8	-43.6	5.4	6.4	-18.4
-102.5	-16.2	-41.0	5.5	5.4	-19.4
-102.0	-16.4	-41.2	5.6	3.9	-20.9
-101.5	-18.8	-43.6	5.7	1.9	-22.9
-101.0	-25.2	-50.0	5.8	-1.0	-25.8
-100.5	-29.2	-54.0	5.9	-4.7	-29.5
-100.0	-27.4	-52.2	6.0	-6.9	-31.7
-99.5	-32.6	-57.4	6.1	-4.3	-29.1
-99.0	-25.8	-50.6	6.2	-1.1	-25.9
-98.5	-19.2	-44.0	6.3	0.9	-23.9
-98.0	-16.9	-41.7	6.4	2.3	-22.5
-97.5	-16.3	-41.1	6.5	3.3	-21.5
-97.0	-16.5	-41.3	6.6	3.7	-21.1
-96.5	-17.1	-41.9	6.7	3.8	-21.0
-96.0	-18.0	-42.8	6.8	3.3	-21.5
-95.5	-17.2	-42.0	6.9	2.5	-22.3
-95.0	-18.5	-43.3	7.0	1.0	-23.8
-94.5	-22.7	-47.5	7.1	-0.8	-25.6
-94.0	-32.8	-57.6	7.2	-3.1	-27.9
-93.5	-36.1	-60.9	7.3	-6.7	-31.5
-93.0	-23.5	-48.3	7.4	-12.6	-37.4
-92.5	-20.4	-45.2	7.5	-22.4	-47.2
-92.0	-24.8	-49.6	7.6	-14.1	-38.9
-91.5	-27.3	-52.1	7.7	-9.1	-33.9
-91.0	-20.1	-44.9	7.8	-6.9	-31.7
-90.5	-15.6	-40.4	7.9	-5.7	-30.5
-90.0	-16.0	-40.8	8.0	-5.6	-30.4
-89.5	-16.3	-41.1	8.1	-5.9	-30.7
-89.0	-18.8	-43.6	8.2	-7.2	-32.0
-88.5	-18.8	-43.6	8.3	-9.9	-34.7
-88.0	-18.9	-43.7	8.4	-14.2	-39.0
-87.5	-18.8	-43.6	8.5	-17.3	-42.1
-87.0	-23.1	-47.9	8.6	-12.0	-36.8
-86.5	-27.0	-51.8	8.7	-7.2	-32.0
-86.0	-24.2	-49.0	8.8	-4.3	-29.1
-85.5	-19.9	-44.7	8.9	-2.0	-26.8
-85.0	-21.1	-45.9	9.0	-0.6	-25.4
-84.5	-32.3	-57.1	9.1	0.5	-24.3
-84.0	-28.7	-53.5	9.2	1.1	-23.7
-83.5	-20.4	-45.2	9.3	1.6	-23.2
-83.0	-18.1	-42.9	9.4	1.7	-23.1
-82.5	-19.0	-43.8	9.5	1.6	-23.2
-82.0	-23.3	-48.1	9.6	1.2	-23.6
-81.5	-21.6	-46.4	9.7	0.7	-24.1
-81.0	-16.7	-41.5	9.8	-0.1	-24.9
-80.5	-16.3	-41.1	9.9	-1.1	-25.9
-80.0	-16.5	-41.3	10.0	-2.5	-27.3
-79.5	-20.0	-44.8			
-79.0	-31.1	-55.9			
-78.5	-18.2	-43.0			
-78.0	-15.9	-40.7			
-77.5	-16.2	-41.0			
-77.0	-15.8	-40.6			
-76.5	-16.9	-41.7			
-76.0	-22.3	-47.1			
-75.5	-30.8	-55.6			
-75.0	-24.4	-49.2			
-74.5	-19.5	-44.3			
-74.0	-16.3	-41.1			
-73.5	-15.6	-40.4			
-73.0	-18.6	-43.4			
-72.5	-27.2	-52.0			
-72.0	-24.2	-49.0			
-71.5	-22.7	-47.5			
-71.0	-21.8	-46.6			
-70.5	-18.7	-43.5			
-70.0	-17.8	-42.6			
-69.5	-16.0	-40.8			
-69.0	-16.1	-40.9			
-68.5	-19.1	-43.9			
-68.0	-23.9	-48.7			
-67.5	-23.3	-48.1			
-67.0	-19.4	-44.2			

-66.5	-16.5	-41.3
-66.0	-14.7	-39.5
-65.5	-17.2	-42.0
-65.0	-22.2	-47.0
-64.5	-29.9	-54.7
-64.0	-23.7	-48.5
-63.5	-19.0	-43.8
-63.0	-16.2	-41.0
-62.5	-14.8	-39.6
-62.0	-15.7	-40.5
-61.5	-18.6	-43.4
-61.0	-29.3	-54.1
-60.5	-25.1	-49.9
-60.0	-18.8	-43.6
-59.5	-14.5	-39.3
-59.0	-12.9	-37.7
-58.5	-14.4	-39.2
-58.0	-21.1	-45.9
-57.5	-20.7	-45.5
-57.0	-13.2	-38.0
-56.5	-10.2	-35.0
-56.0	-9.0	-33.8
-55.5	-9.7	-34.5
-55.0	-12.5	-37.3
-54.5	-17.3	-42.1
-54.0	-33.6	-58.4
-53.5	-18.7	-43.5
-53.0	-14.9	-39.7
-52.5	-13.6	-38.4
-52.0	-11.6	-36.4
-51.5	-11.1	-35.9
-51.0	-12.1	-36.9
-50.5	-12.7	-37.5
-50.0	-15.3	-40.1
-49.5	-19.5	-44.3
-49.0	-26.3	-51.1
-48.5	-14.5	-39.3
-48.0	-10.6	-35.4
-47.5	-9.9	-34.7
-47.0	-11.6	-36.4
-46.5	-16.0	-40.8
-46.0	-21.9	-46.7
-45.5	-16.8	-41.6
-45.0	-12.7	-37.5
-44.5	-10.8	-35.6
-44.0	-10.4	-35.2
-43.5	-12.4	-37.2
-43.0	-14.9	-39.7
-42.5	-15.2	-40.0
-42.0	-13.6	-38.4
-41.5	-14.7	-39.5
-41.0	-16.8	-41.6
-40.5	-25.9	-50.7
-40.0	-18.6	-43.4
-39.5	-12.0	-36.8
-39.0	-10.0	-34.8
-38.5	-10.4	-35.2
-38.0	-13.3	-38.1
-37.5	-16.1	-40.9
-37.0	-15.6	-40.4
-36.5	-14.3	-39.1
-36.0	-13.6	-38.4
-35.5	-15.7	-40.5
-35.0	-36.1	-60.9
-34.5	-16.4	-41.2
-34.0	-10.8	-35.6
-33.5	-11.5	-36.3
-33.0	-14.8	-39.6
-32.5	-18.4	-43.2
-32.0	-16.5	-41.3
-31.5	-12.6	-37.4
-31.0	-10.8	-35.6
-30.5	-14.1	-38.9
-30.0	-24.3	-49.1
-29.5	-18.2	-43.0
-29.0	-16.9	-41.7
-28.5	-18.7	-43.5
-28.0	-16.2	-41.0
-27.5	-17.8	-42.6
-27.0	-17.9	-42.7
-26.5	-11.1	-35.9
-26.0	-9.6	-34.4
-25.5	-11.4	-36.2
-25.0	-13.6	-38.4
-24.5	-15.9	-40.7
-24.0	-17.6	-42.4
-23.5	-12.3	-37.1
-23.0	-13.3	-38.1
-22.5	-16.7	-41.5
-22.0	-12.8	-37.6
-21.5	-15.9	-40.7
-21.0	-17.6	-42.4
-20.5	-10.6	-35.4
-20.0	-12.9	-37.7
-19.5	-15.0	-39.8
-19.0	-10.9	-35.7
-18.5	-15.0	-39.8
-18.0	-10.8	-35.6
-17.5	-6.4	-31.2
-17.0	-9.4	-34.2
-16.5	-20.7	-45.5
-16.0	-17.2	-42.0
-15.5	-13.9	-38.7
-15.0	-6.3	-31.1
-14.5	-6.4	-31.2
-14.0	-30.3	-55.1
-13.5	-6.6	-31.4
-13.0	-7.1	-31.9
-12.5	-12.3	-37.1
-12.0	-2.2	-27.0
-11.5	-2.2	-27.0
-11.0	-9.8	-34.6
-10.5	-13.9	-38.7
-10.0	-4.7	-29.5
-9.5	1.1	-23.7
-9.0	1.5	-23.3

-8.5	-7.3	-32.1
-8.0	-6.2	-31.0
-7.5	-5.8	-30.6
-7.0	-0.1	-24.9
-6.5	4.0	-20.8
-6.0	-5.4	-30.2
-5.5	4.1	-20.7
-5.0	8.4	-16.4
-4.5	2.9	-21.9
-4.0	10.4	-14.4
-3.5	12.9	-11.9
-3.0	2.7	-22.1
-2.5	9.9	-14.9
-2.0	3.5	-21.3
-1.5	25.2	0.4
-1.0	33.8	9.0
-0.5	38.0	13.2
0.0	39.6	14.8
0.5	38.8	14.0
1.0	35.5	10.7
1.5	28.6	3.8
2.0	12.2	-12.6
2.5	14.1	-10.7
3.0	7.4	-17.4
3.5	8.9	-15.9
4.0	11.4	-13.4
4.5	5.2	-19.6
5.0	6.5	-18.3
5.5	5.5	-19.3
6.0	-7.1	-31.9
6.5	3.3	-21.5
7.0	1.0	-23.8
7.5	-22.5	-47.3
8.0	-5.4	-30.2
8.5	-17.4	-42.2
9.0	-0.6	-25.4
9.5	1.7	-23.1
10.0	-2.5	-27.3
10.5	-9.4	-34.2
11.0	-13.3	-38.1
11.5	-4.3	-29.1
12.0	-1.7	-26.5
12.5	-5.2	-30.0
13.0	-9.8	-34.6
13.5	-7.6	-32.4
14.0	-14.4	-39.2
14.5	-7.6	-32.4
15.0	-6.3	-31.1
15.5	-10.2	-35.0
16.0	-6.1	-30.9
16.5	-6.3	-31.1
17.0	-13.4	-38.2
17.5	-17.7	-42.5
18.0	-16.2	-41.0
18.5	-10.8	-35.6
19.0	-7.5	-32.3
19.5	-11.5	-36.3
20.0	-19.0	-43.8
20.5	-12.2	-37.0
21.0	-12.3	-37.1
21.5	-9.3	-34.1
22.0	-7.6	-32.4
22.5	-11.6	-36.4
23.0	-28.7	-53.5
23.5	-22.8	-47.6
24.0	-27.1	-51.9
24.5	-14.0	-38.8
25.0	-12.4	-37.2
25.5	-17.1	-41.9
26.0	-29.4	-54.2
26.5	-17.6	-42.4
27.0	-14.6	-39.4
27.5	-13.1	-37.9
28.0	-12.9	-37.7
28.5	-12.1	-36.9
29.0	-9.9	-34.7
29.5	-9.7	-34.5
30.0	-11.9	-36.7
30.5	-13.8	-38.6
31.0	-15.1	-39.9
31.5	-18.7	-43.5
32.0	-15.2	-40.0
32.5	-12.4	-37.2
33.0	-12.6	-37.4
33.5	-15.6	-40.4
34.0	-23.1	-47.9
34.5	-22.9	-47.7
35.0	-14.6	-39.4
35.5	-11.3	-36.1
36.0	-11.2	-36.0
36.5	-13.0	-37.8
37.0	-13.1	-37.9
37.5	-12.2	-37.0
38.0	-10.9	-35.7
38.5	-10.6	-35.4
39.0	-11.3	-36.1
39.5	-13.9	-38.7
40.0	-16.8	-41.6
40.5	-14.6	-39.4
41.0	-12.3	-37.1
41.5	-12.0	-36.8
42.0	-12.4	-37.2
42.5	-12.2	-37.0
43.0	-11.5	-36.3
43.5	-10.5	-35.3
44.0	-10.5	-35.3
44.5	-12.6	-37.4
45.0	-18.0	-42.8
45.5	-21.2	-46.0
46.0	-15.3	-40.1
46.5	-11.8	-36.6
47.0	-10.6	-35.4
47.5	-10.1	-34.9
48.0	-10.9	-35.7
48.5	-10.6	-35.4
49.0	-10.1	-34.9

49.5	-10.4	-35.2
50.0	-12.2	-37.0
50.5	-16.8	-41.6
51.0	-24.4	-49.2
51.5	-15.5	-40.3
52.0	-11.4	-36.2
52.5	-9.9	-34.7
53.0	-10.5	-35.3
53.5	-12.8	-37.6
54.0	-17.6	-42.4
54.5	-22.3	-47.1
55.0	-17.1	-41.9
55.5	-13.4	-38.2
56.0	-12.4	-37.2
56.5	-13.3	-38.1
57.0	-15.8	-40.6
57.5	-21.3	-46.1
58.0	-19.4	-44.2
58.5	-16.6	-41.4
59.0	-15.7	-40.5
59.5	-15.0	-39.8
60.0	-14.0	-38.8
60.5	-13.3	-38.1
61.0	-14.1	-38.9
61.5	-16.1	-40.9
62.0	-19.9	-44.7
62.5	-32.0	-56.8
63.0	-25.3	-50.1
63.5	-18.4	-43.2
64.0	-15.9	-40.7
64.5	-16.1	-40.9
65.0	-16.9	-41.7
65.5	-18.6	-43.4
66.0	-21.7	-46.5
66.5	-22.4	-47.2
67.0	-20.0	-44.8
67.5	-17.9	-42.7
68.0	-17.1	-41.9
68.5	-17.2	-42.0
69.0	-17.6	-42.4
69.5	-19.8	-44.6
70.0	-19.8	-44.6
70.5	-19.1	-43.9
71.0	-17.5	-42.3
71.5	-18.0	-42.8
72.0	-18.1	-42.9
72.5	-18.7	-43.5
73.0	-19.8	-44.6
73.5	-23.8	-48.6
74.0	-33.9	-58.7
74.5	-34.8	-59.6
75.0	-24.3	-49.1
75.5	-19.4	-44.2
76.0	-18.9	-43.7
76.5	-21.4	-46.2
77.0	-24.4	-49.2
77.5	-29.4	-54.2
78.0	-21.3	-46.1
78.5	-17.8	-42.6
79.0	-17.7	-42.5
79.5	-20.4	-45.2
80.0	-27.0	-51.8
80.5	-27.5	-52.3
81.0	-20.0	-44.8
81.5	-17.9	-42.7
82.0	-18.1	-42.9
82.5	-19.7	-44.5
83.0	-24.5	-49.3
83.5	-21.8	-46.6
84.0	-18.5	-43.3
84.5	-16.4	-41.2
85.0	-16.7	-41.5
85.5	-18.1	-42.9
86.0	-18.6	-43.4
86.5	-17.6	-42.4
87.0	-18.8	-43.6
87.5	-20.2	-45.0
88.0	-24.4	-49.2
88.5	-27.6	-52.4
89.0	-27.3	-52.1
89.5	-29.9	-54.7
90.0	-31.4	-56.2
90.5	-24.4	-49.2
91.0	-22.7	-47.5
91.5	-21.8	-46.6
92.0	-24.0	-48.8
92.5	-28.6	-53.4
93.0	-24.5	-49.3
93.5	-21.5	-46.3
94.0	-20.2	-45.0
94.5	-20.3	-45.1
95.0	-20.6	-45.4
95.5	-21.9	-46.7
96.0	-23.1	-47.9
96.5	-29.5	-54.3
97.0	-26.1	-50.9
97.5	-20.9	-45.7
98.0	-19.4	-44.2
98.5	-19.1	-43.9
99.0	-20.9	-45.7
99.5	-21.6	-46.4
100.0	-18.6	-43.4
100.5	-17.0	-41.8
101.0	-17.8	-42.6
101.5	-18.0	-42.8
102.0	-21.8	-46.6
102.5	-27.3	-52.1
103.0	-18.9	-43.7
103.5	-18.2	-43.0
104.0	-20.9	-45.7
104.5	-22.0	-46.8
105.0	-18.1	-42.9
105.5	-14.7	-39.5
106.0	-12.8	-37.6
106.5	-14.6	-39.4
107.0	-20.8	-45.6

107.5	-30.0	-54.8
108.0	-34.9	-59.7
108.5	-25.7	-50.5
109.0	-23.9	-48.7
109.5	-29.1	-53.9
110.0	-20.1	-44.9
110.5	-19.6	-44.4
111.0	-20.5	-45.3
111.5	-19.5	-44.3
112.0	-20.1	-44.9
112.5	-25.1	-49.9
113.0	-20.9	-45.7
113.5	-20.1	-44.9
114.0	-25.0	-49.8
114.5	-27.0	-51.8
115.0	-21.7	-46.5
115.5	-15.6	-40.4
116.0	-14.3	-39.1
116.5	-16.3	-41.1
117.0	-23.1	-47.9
117.5	-22.6	-47.4
118.0	-20.3	-45.1
118.5	-17.2	-42.0
119.0	-15.4	-40.2
119.5	-14.9	-39.7
120.0	-14.8	-39.6
120.5	-13.9	-38.7
121.0	-13.0	-37.8
121.5	-13.3	-38.1
122.0	-13.1	-37.9
122.5	-15.5	-40.3
123.0	-20.7	-45.5
123.5	-19.6	-44.4
124.0	-15.7	-40.5
124.5	-14.0	-38.8
125.0	-13.9	-38.7
125.5	-15.2	-40.0
126.0	-18.3	-43.1
126.5	-23.0	-47.8
127.0	-20.1	-44.9
127.5	-17.8	-42.6
128.0	-16.9	-41.7
128.5	-19.8	-44.6
129.0	-22.4	-47.2
129.5	-17.6	-42.4
130.0	-14.1	-38.9
130.5	-12.4	-37.2
131.0	-13.1	-37.9
131.5	-17.5	-42.3
132.0	-26.1	-50.9
132.5	-18.4	-43.2
133.0	-14.4	-39.2
133.5	-11.6	-36.4
134.0	-11.0	-35.8
134.5	-11.2	-36.0
135.0	-13.1	-37.9
135.5	-16.3	-41.1
136.0	-23.3	-48.1
136.5	-21.3	-46.1
137.0	-18.1	-42.9
137.5	-16.3	-41.1
138.0	-16.1	-40.9
138.5	-18.8	-43.6
139.0	-22.7	-47.5
139.5	-27.0	-51.8
140.0	-24.5	-49.3
140.5	-19.7	-44.5
141.0	-17.0	-41.8
141.5	-15.3	-40.1
142.0	-16.7	-41.5
142.5	-19.5	-44.3
143.0	-25.2	-50.0
143.5	-17.5	-42.3
144.0	-12.8	-37.6
144.5	-10.5	-35.3
145.0	-10.2	-35.0
145.5	-10.5	-35.3
146.0	-12.3	-37.1
146.5	-14.9	-39.7
147.0	-18.5	-43.3
147.5	-26.3	-51.1
148.0	-30.1	-54.9
148.5	-23.9	-48.7
149.0	-19.4	-44.2
149.5	-18.7	-43.5
150.0	-18.2	-43.0
150.5	-19.4	-44.2
151.0	-19.5	-44.3
151.5	-21.5	-46.3
152.0	-23.9	-48.7
152.5	-27.3	-52.1
153.0	-33.2	-58.0
153.5	-27.7	-52.5
154.0	-23.7	-48.5
154.5	-20.5	-45.3
155.0	-19.4	-44.2
155.5	-19.3	-44.1
156.0	-18.8	-43.6
156.5	-17.8	-42.6
157.0	-18.3	-43.1
157.5	-17.7	-42.5
158.0	-17.6	-42.4
158.5	-17.5	-42.3
159.0	-18.3	-43.1
159.5	-18.5	-43.3
160.0	-20.1	-44.9
160.5	-20.6	-45.4
161.0	-22.7	-47.5
161.5	-23.6	-48.4
162.0	-31.5	-56.3
162.5	-39.6	-64.4
163.0	-26.1	-50.9
163.5	-23.1	-47.9
164.0	-20.8	-45.6
164.5	-20.9	-45.7
165.0	-21.4	-46.2

165.5	-22.7	-47.5
166.0	-23.2	-48.0
166.5	-21.1	-45.9
167.0	-18.7	-43.5
167.5	-17.2	-42.0
168.0	-15.8	-40.6
168.5	-16.0	-40.8
169.0	-16.2	-41.0
169.5	-18.2	-43.0
170.0	-23.5	-48.3
170.5	-26.2	-51.0
171.0	-26.5	-51.3
171.5	-29.3	-54.1
172.0	-25.1	-49.9
172.5	-19.0	-43.8
173.0	-15.7	-40.5
173.5	-14.2	-39.0
174.0	-14.5	-39.3
174.5	-16.4	-41.2
175.0	-19.6	-44.4
175.5	-21.9	-46.7
176.0	-22.0	-46.8
176.5	-20.2	-45.0
177.0	-17.6	-42.4
177.5	-16.5	-41.3
178.0	-16.4	-41.2
178.5	-18.1	-42.9
179.0	-19.6	-44.4
180.0	-16.4	-41.2

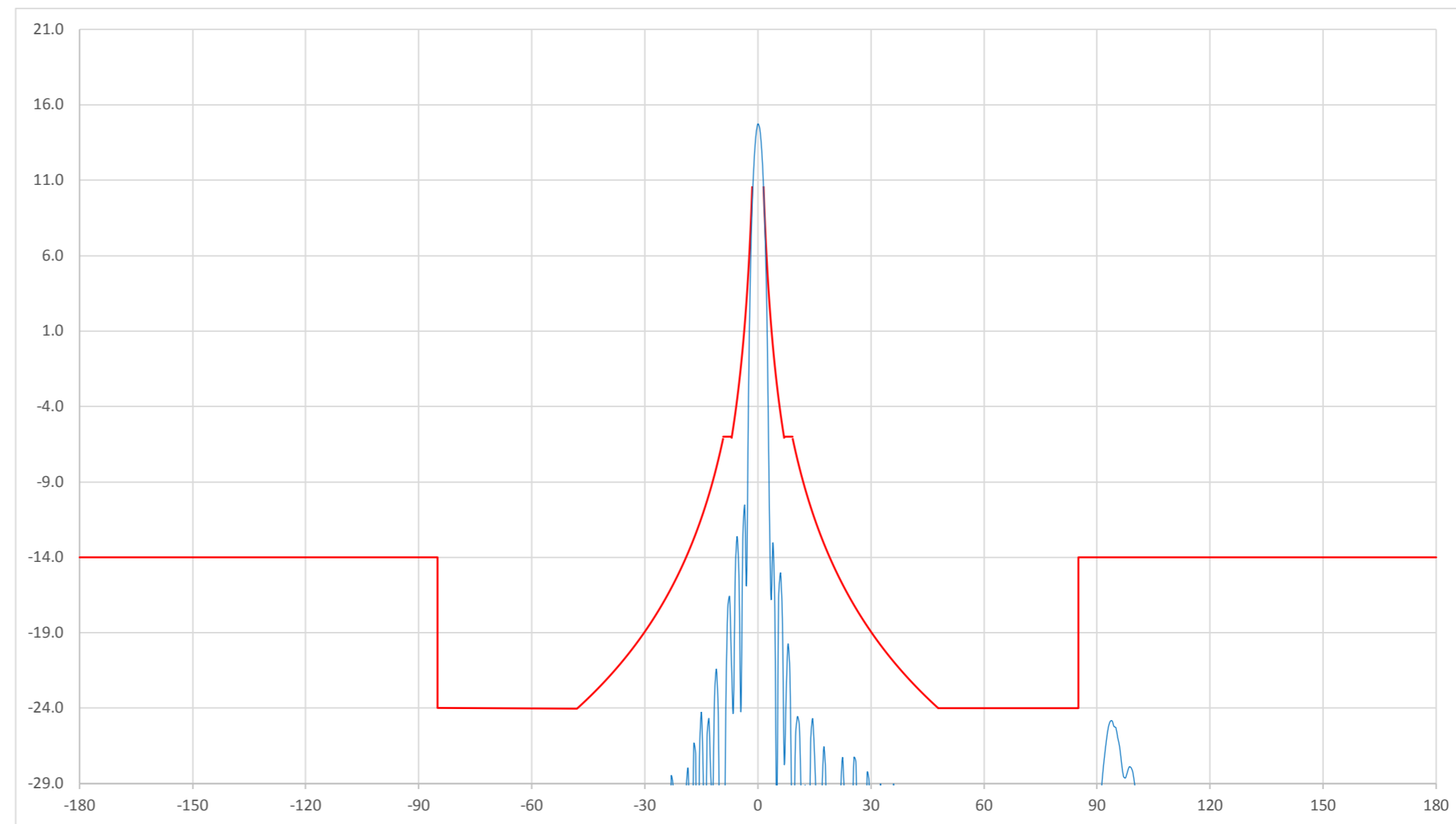
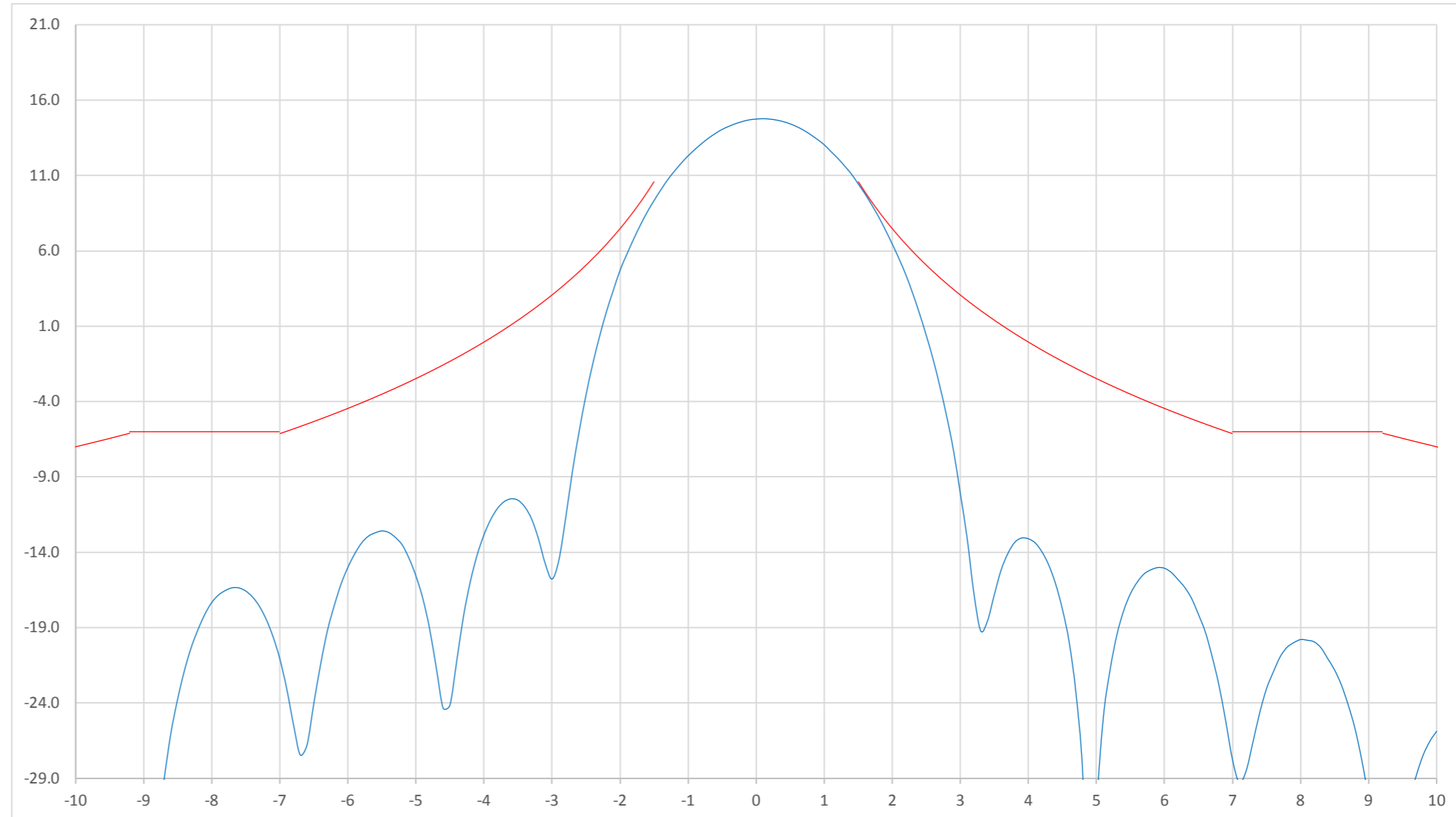
Tx V EI 14000

Feed Power Spectral Density - 24.8 dBW/4 kHz

Geostationary Orbit Plane Table

Elevation Plane Table

Theta	Gain (dBi)	EIRP Density	Theta	Gain (dBi)	EIRP Density
-180.0	-20.1	-44.9	-10.0	-12.3	-37.1
-179.5	-25.9	-50.7	-9.9	-13.8	-38.6
-179.0	-24.3	-49.1	-9.8	-10.6	-35.4
-178.5	-19.4	-44.2	-9.7	-8.6	-33.4
-178.0	-17.6	-42.4	-9.6	-6.7	-31.5
-177.5	-17.3	-42.1	-9.5	-5.8	-30.6
-177.0	-23.3	-48.1	-9.4	-5.7	-30.5
-176.5	-23.8	-48.6	-9.3	-6.1	-30.9
-176.0	-24.0	-48.8	-9.2	-7.3	-32.1
-175.5	-22.4	-47.2	-9.1	-9.3	-34.1
-175.0	-20.7	-45.5	-9.0	-11.8	-36.6
-174.5	-20.0	-44.8	-8.9	-12.1	-36.9
-174.0	-20.7	-45.5	-8.8	-7.8	-32.6
-173.5	-21.7	-46.5	-8.7	-4.3	-29.1
-173.0	-24.7	-49.5	-8.6	-1.2	-26.0
-172.5	-26.0	-50.8	-8.5	1.1	-23.7
-172.0	-25.0	-49.8	-8.4	3.0	-21.8
-171.5	-20.1	-44.9	-8.3	4.5	-20.3
-171.0	-18.7	-43.5	-8.2	5.7	-19.1
-170.5	-21.4	-46.2	-8.1	6.7	-18.1
-170.0	-23.6	-48.4	-8.0	7.5	-17.3
-169.5	-17.9	-42.7	-7.9	8.0	-16.8
-169.0	-18.3	-43.1	-7.8	8.3	-16.5
-168.5	-21.7	-46.5	-7.7	8.4	-16.4
-168.0	-28.9	-53.7	-7.6	8.4	-16.4
-167.5	-25.3	-50.1	-7.5	8.2	-16.6
-167.0	-21.1	-45.9	-7.4	7.8	-17.0
-166.5	-29.1	-53.9	-7.3	7.2	-17.6
-166.0	-21.7	-46.5	-7.2	6.3	-18.5
-165.5	-16.1	-40.9	-7.1	5.2	-19.6
-165.0	-16.7	-41.5	-7.0	3.7	-21.1
-164.5	-17.5	-42.3	-6.9	1.8	-23.0
-164.0	-13.7	-38.5	-6.8	-0.6	-25.4
-163.5	-14.2	-39.0	-6.7	-2.6	-27.4
-163.0	-19.3	-44.1	-6.6	-2.0	-26.8
-162.5	-20.9	-45.7	-6.5	0.8	-24.0
-162.0	-17.8	-42.6	-6.4	3.4	-21.4
-161.5	-16.2	-41.0	-6.3	5.6	-19.2
-161.0	-14.5	-39.3	-6.2	7.3	-17.5
-160.5	-15.0	-39.8	-6.1	8.7	-16.1
-160.0	-13.7	-38.5	-6.0	9.8	-15.0
-159.5	-15.4	-40.2	-5.9	10.7	-14.1
-159.0	-21.2	-46.0	-5.8	11.4	-13.4
-158.5	-25.5	-50.3	-5.7	11.9	-12.9
-158.0	-23.3	-48.1	-5.6	12.1	-12.7
-157.5	-21.9	-46.7	-5.5	12.2	-12.6
-157.0	-23.9	-48.7	-5.4	12.1	-12.7
-156.5	-18.2	-43.0	-5.3	11.8	-13.0
-156.0	-14.2	-39.0	-5.2	11.3	-13.5
-155.5	-14.2	-39.0	-5.1	10.4	-14.4
-155.0	-15.6	-40.4	-5.0	9.2	-15.6
-154.5	-15.3	-40.1	-4.9	7.8	-17.0
-154.0	-15.5	-40.3	-4.8	5.8	-19.0
-153.5	-17.2	-42.0	-4.7	3.1	-21.7
-153.0	-21.1	-45.9	-4.6	0.5	-24.3
-152.5	-21.5	-46.3	-4.5	0.7	-24.1
-152.0	-20.6	-45.4	-4.4	3.6	-21.2
-151.5	-17.7	-42.5	-4.3	6.6	-18.2
-151.0	-15.2	-40.0	-4.2	8.9	-15.9
-150.5	-14.0	-38.8	-4.1	10.6	-14.2
-150.0	-17.3	-42.1	-4.0	12.0	-12.8
-149.5	-24.6	-49.4	-3.9	13.0	-11.8
-149.0	-26.6	-51.4	-3.8	13.7	-11.1
-148.5	-18.4	-43.2	-3.7	14.2	-10.6
-148.0	-19.6	-44.4	-3.6	14.4	-10.5
-147.5	-24.2	-49.0	-3.5	14.3	-10.5
-147.0	-21.7	-46.5	-3.4	13.8	-11.0
-146.5	-16.5	-41.3	-3.3	13.0	-11.8
-146.0	-15.2	-40.0	-3.2	11.7	-13.1
-145.5	-15.8	-40.6	-3.1	10.1	-14.7
-145.0	-17.6	-42.4	-3.0	9.0	-15.8
-144.5	-22.1	-46.9	-2.9	10.3	-14.5
-144.0	-44.0	-68.8	-2.8	13.1	-11.7
-143.5	-24.9	-49.7	-2.7	16.2	-8.6
-143.0	-21.4	-46.2	-2.6	18.8	-6.0
-142.5	-24.9	-49.7	-2.5	21.3	-3.6
-142.0	-38.6	-63.4	-2.4	23.3	-1.5
-141.5	-22.0	-46.8	-2.3	25.1	0.3
-141.0	-16.2	-41.0	-2.2	26.8	2.0
-140.5	-14.4	-39.2	-2.1	28.2	3.4
-140.0	-16.2	-41.0	-2.0	29.5	4.7
-139.5	-22.4	-47.2	-1.9	30.6	5.8
-139.0	-32.2	-57.0	-1.8	31.6	6.8
-138.5	-24.0	-48.8	-1.7	32.5	7.7
-138.0	-25.8	-50.6	-1.6	33.4	8.6
-137.5	-32.7	-57.5	-1.5	34.1	9.3
-137.0	-28.4	-53.2	-1.4	34.8	10.0
-136.5	-29.6	-54.4	-1.3	35.5	10.7
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-135.0	-23.4	-48.2	-1.0	37.1	12.3
-134.5	-24.6	-49.4	-0.9	37.5	12.7
-134.0	-18.4	-43.2	-0.8	37.9	13.1
-133.5	-15.7	-40.5	-0.7	38.3	13.5
-133.0	-15.0	-39.8	-0.6	38.6	13.8
-132.5	-18.2	-43.0	-0.5	38.9	14.1
-132.0	-20.7	-45.5	-0.4	39.1	14.3
-131.5	-20.9	-45.7	-0.3	39.2	14.4
-131.0	-22.7	-47.5	-0.2	39.4	14.6
-130.5	-32.1	-56.9	-0.1	39.5	14.7
-130.0	-36.6	-61.4	0.0	39.5	14.7
-129.5	-24.4	-49.2	0.1	39.6	14.8
-129.0	-23.1	-47.9	0.2	39.5	14.7
-128.5	-34.1	-58.9	0.3	39.5	14.7
-128.0	-26.0	-50.8	0.4	39.4	14.6
-127.5	-18.9	-43.7	0.5	39.2	14.4
-127.0	-17.9	-42.7	0.6	39.0	14.2
-126.5	-22.6	-47.4	0.7	38.8	14.0
-126.0	-28.4	-53.2	0.8	38.5	13.7
-125.5	-33.1	-57.9	0.9	38.2	13.4



-125.0	-38.0	-62.8	1.0	37.8	13.0
-124.5	-24.3	-49.1	1.1	37.4	12.6
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-122.0	-22.7	-47.5	1.6	34.6	9.8
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-117.5	-28.0	-52.8	2.5	25.2	0.4
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-116.5	-27.4	-52.2	2.7	21.8	-3.0
-116.0	-23.0	-47.8	2.8	19.8	-5.0
-115.5	-20.8	-45.6	2.9	17.5	-7.3
-115.0	-20.4	-45.2	3.0	14.7	-10.1
-114.5	-23.6	-48.4	3.1	11.7	-13.1
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-108.0	-12.5	-37.3	4.4	8.7	-16.1
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-107.0	-13.0	-37.8	4.6	4.8	-20.0
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-100.5	-13.2	-38.0	5.9	9.8	-15.0
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-93.5	-29.1	-53.9	7.3	-1.8	-26.6
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55.0	-17.1	-41.9
55.5	-31.5	-56.3
56.0	-15.8	-40.6
56.5	-14.2	-39.0
57.0	-13.6	-38.4
57.5	-13.1	-37.9
58.0	-14.2	-39.0
58.5	-20.8	-45.6
59.0	-17.1	-41.9
59.5	-11.1	-35.9
60.0	-10.2	-35.0
60.5	-13.9	-38.7
61.0	-25.9	-50.7
61.5	-13.3	-38.1
62.0	-9.3	-34.1
62.5	-9.4	-34.2
63.0	-14.5	-39.3
63.5	-20.9	-45.7
64.0	-12.6	-37.4
64.5	-9.8	-34.6
65.0	-9.5	-34.3
65.5	-11.9	-36.7
66.0	-12.2	-37.0
66.5	-10.6	-35.4
67.0	-10.4	-35.2
67.5	-13.2	-38.0
68.0	-21.0	-45.8
68.5	-16.2	-41.0
69.0	-12.6	-37.4
69.5	-12.1	-36.9
70.0	-15.8	-40.6
70.5	-18.1	-42.9
71.0	-10.9	-35.7
71.5	-7.6	-32.4
72.0	-7.1	-31.9
72.5	-8.1	-32.9
73.0	-12.0	-36.8
73.5	-18.7	-43.5
74.0	-14.3	-39.1
74.5	-10.9	-35.7
75.0	-10.8	-35.6
75.5	-11.0	-35.8
76.0	-11.8	-36.6
76.5	-12.4	-37.2
77.0	-12.9	-37.7
77.5	-13.4	-38.2
78.0	-14.4	-39.2
78.5	-17.7	-42.5
79.0	-16.1	-40.9
79.5	-12.5	-37.3
80.0	-10.2	-35.0
80.5	-8.8	-33.6
81.0	-9.3	-34.1
81.5	-10.7	-35.5
82.0	-13.7	-38.5
82.5	-16.8	-41.6
83.0	-15.1	-39.9
83.5	-11.7	-36.5
84.0	-9.7	-34.5
84.5	-8.4	-33.2
85.0	-8.7	-33.5
85.5	-10.6	-35.4
86.0	-13.6	-38.4
86.5	-15.6	-40.4
87.0	-13.9	-38.7
87.5	-12.4	-37.2
88.0	-11.0	-35.8
88.5	-10.1	-34.9
89.0	-10.1	-34.9
89.5	-10.0	-34.8
90.0	-9.5	-34.3
90.5	-7.4	-32.2
91.0	-5.2	-30.0
91.5	-3.6	-28.4
92.0	-2.3	-27.1
92.5	-1.3	-26.1
93.0	-0.5	-25.3
93.5	-0.1	-24.9
94.0	0.0	-24.8
94.5	-0.4	-25.2
95.0	-0.5	-25.3
95.5	-1.2	-26.0
96.0	-1.8	-26.6
96.5	-2.8	-27.6
97.0	-3.7	-28.5
97.5	-3.8	-28.6
98.0	-3.5	-28.3
98.5	-3.1	-27.9
99.0	-3.1	-27.9
99.5	-3.5	-28.3
100.0	-4.3	-29.1
100.5	-5.0	-29.8
101.0	-5.5	-30.3
101.5	-5.8	-30.6
102.0	-5.7	-30.5
102.5	-5.4	-30.2
103.0	-5.1	-29.9
103.5	-5.4	-30.2
104.0	-6.3	-31.1
104.5	-7.3	-32.1
105.0	-7.0	-31.8
105.5	-6.2	-31.0
106.0	-6.2	-31.0
106.5	-6.8	-31.6

107.0	-9.3	-34.1
107.5	-10.5	-35.3
108.0	-9.9	-34.7
108.5	-9.5	-34.3
109.0	-9.7	-34.5
109.5	-11.1	-35.9
110.0	-12.4	-37.2
110.5	-12.9	-37.7
111.0	-13.3	-38.1
111.5	-13.3	-38.1
112.0	-13.5	-38.3
112.5	-14.3	-39.1
113.0	-15.9	-40.7
113.5	-21.2	-46.0
114.0	-19.0	-43.8
114.5	-13.2	-38.0
115.0	-10.3	-35.1
115.5	-10.0	-34.8
116.0	-11.4	-36.2
116.5	-15.5	-40.3
117.0	-23.0	-47.8
117.5	-29.0	-53.8
118.0	-18.9	-43.7
118.5	-16.3	-41.1
119.0	-15.5	-40.3
119.5	-16.1	-40.9
120.0	-18.5	-43.3
120.5	-20.8	-45.6
121.0	-25.8	-50.6
121.5	-24.0	-48.8
122.0	-18.2	-43.0
122.5	-16.6	-41.4
123.0	-16.7	-41.5
123.5	-19.3	-44.1
124.0	-22.3	-47.1
124.5	-18.9	-43.7
125.0	-15.5	-40.3
125.5	-13.6	-38.4
126.0	-12.3	-37.1
126.5	-11.8	-36.6
127.0	-12.6	-37.4
127.5	-13.7	-38.5
128.0	-15.8	-40.6
128.5	-18.7	-43.5
129.0	-18.8	-43.6
129.5	-18.7	-43.5
130.0	-16.4	-41.2
130.5	-14.6	-39.4
131.0	-14.8	-39.6
131.5	-15.6	-40.4
132.0	-15.4	-40.2
132.5	-14.3	-39.1
133.0	-14.6	-39.4
133.5	-16.9	-41.7
134.0	-20.4	-45.2
134.5	-25.0	-49.8
135.0	-26.0	-50.8
135.5	-25.9	-50.7
136.0	-28.8	-53.6
136.5	-35.7	-60.5
137.0	-36.5	-61.3
137.5	-23.6	-48.4
138.0	-19.4	-44.2
138.5	-19.6	-44.4
139.0	-20.5	-45.3
139.5	-18.3	-43.1
140.0	-15.3	-40.1
140.5	-15.9	-40.7
141.0	-16.9	-41.7
141.5	-21.8	-46.6
142.0	-20.6	-45.4
142.5	-21.7	-46.5
143.0	-23.2	-48.0
143.5	-23.0	-47.8
144.0	-18.8	-43.6
144.5	-17.2	-42.0
145.0	-18.5	-43.3
145.5	-22.1	-46.9
146.0	-27.7	-52.5
146.5	-34.9	-59.7
147.0	-36.8	-61.6
147.5	-25.8	-50.6
148.0	-24.2	-49.0
148.5	-26.4	-51.2
149.0	-43.0	-67.8
149.5	-27.7	-52.5
150.0	-24.5	-49.3
150.5	-19.9	-44.7
151.0	-19.9	-44.7
151.5	-19.8	-44.6
152.0	-19.5	-44.3
152.5	-24.6	-49.4
153.0	-29.8	-54.6
153.5	-26.7	-51.5
154.0	-23.2	-48.0
154.5	-26.1	-50.9
155.0	-22.2	-47.0
155.5	-19.2	-44.0
156.0	-20.3	-45.1
156.5	-24.7	-49.5
157.0	-31.9	-56.7
157.5	-31.6	-56.4
158.0	-29.6	-54.4
158.5	-33.3	-58.1
159.0	-22.9	-47.7
159.5	-23.7	-48.5
160.0	-23.2	-48.0
160.5	-21.8	-46.6
161.0	-26.1	-50.9
161.5	-27.2	-52.0
162.0	-43.1	-67.9
162.5	-26.5	-51.3
163.0	-22.5	-47.3
163.5	-25.8	-50.6
164.0	-23.8	-48.6
164.5	-25.3	-50.1

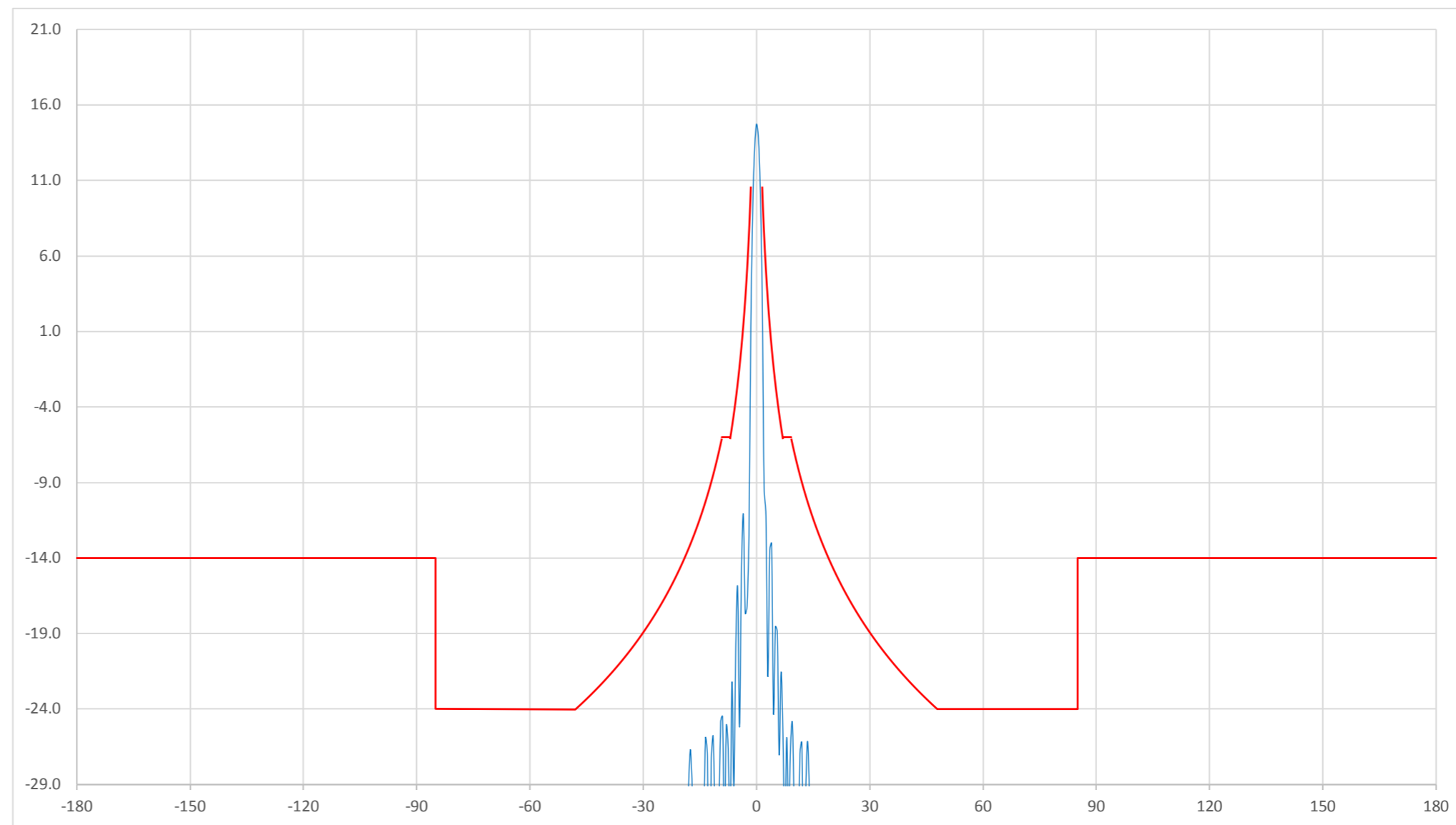
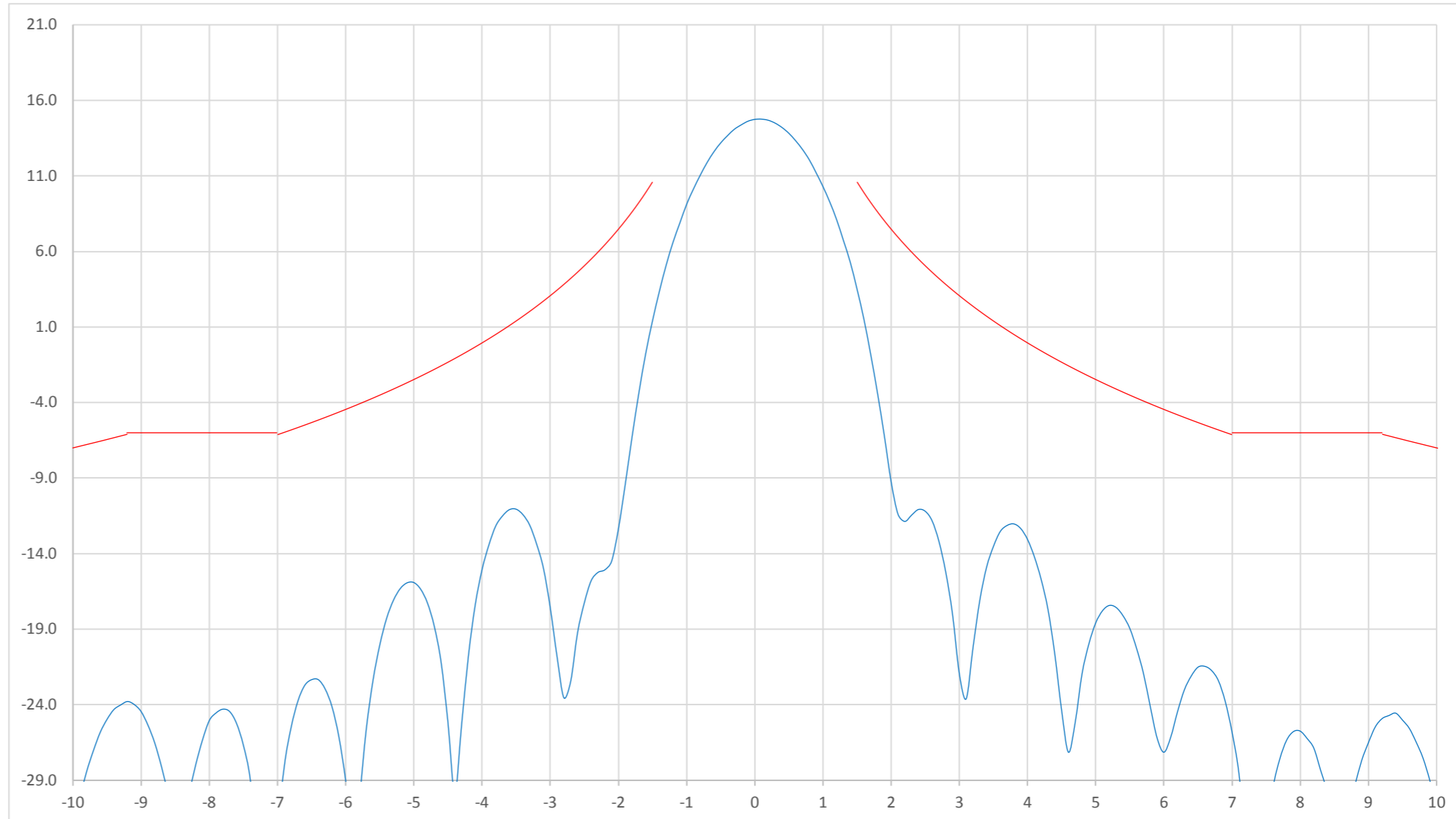
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165.5	-28.9	-53.7
166.0	-25.9	-50.7
166.5	-22.8	-47.6
167.0	-26.3	-51.1
167.5	-35.1	-59.9
168.0	-27.8	-52.6
168.5	-25.4	-50.2
169.0	-21.2	-46.0
169.5	-23.9	-48.7
170.0	-31.5	-56.3
170.5	-21.3	-46.1
171.0	-21.0	-45.8
171.5	-22.6	-47.4
172.0	-27.7	-52.5
172.5	-25.8	-50.6
173.0	-20.6	-45.4
173.5	-21.4	-46.2
174.0	-24.9	-49.7
174.5	-20.6	-45.4
175.0	-21.3	-46.1
175.5	-27.4	-52.2
176.0	-22.3	-47.1
176.5	-21.7	-46.5
177.0	-23.7	-48.5
177.5	-19.4	-44.2
178.0	-22.0	-46.8
178.5	-22.3	-47.1
179.0	-20.8	-45.6
180.0	-20.1	-44.9

Tx V EI 14000

Feed Power Spectral Density - 24.8 dBW/4 kHz

Horizon Plane Table

Theta	Gain (dBi)	EIRP Density	Theta	Gain (dBi)	EIRP Density
-180.0	-21.9	-46.7	-10.0	-7.3	-32.1
-179.5	-24.3	-49.1	-9.9	-5.4	-30.2
-179.0	-23.5	-48.3	-9.8	-3.6	-28.4
-178.5	-19.9	-44.7	-9.7	-2.2	-27.0
-178.0	-16.7	-41.5	-9.6	-1.0	-25.8
-177.5	-13.4	-38.2	-9.5	-0.2	-25.0
-177.0	-14.0	-38.8	-9.4	0.5	-24.3
-176.5	-15.7	-40.5	-9.3	0.8	-24.0
-176.0	-17.3	-42.1	-9.2	1.0	-23.8
-175.5	-18.8	-43.6	-9.1	0.8	-24.0
-175.0	-22.2	-47.0	-9.0	0.3	-24.5
-174.5	-25.6	-50.4	-8.9	-0.6	-25.4
-174.0	-24.8	-49.6	-8.8	-1.7	-26.5
-173.5	-21.4	-46.2	-8.7	-3.3	-28.1
-173.0	-20.7	-45.5	-8.6	-5.2	-30.0
-172.5	-22.1	-46.9	-8.5	-7.0	-31.8
-172.0	-25.4	-50.2	-8.4	-6.9	-31.7
-171.5	-27.8	-52.6	-8.3	-5.1	-29.9
-171.0	-29.0	-53.8	-8.2	-3.2	-28.0
-170.5	-28.3	-53.1	-8.1	-1.5	-26.3
-170.0	-23.6	-48.4	-8.0	-0.2	-25.0
-169.5	-22.1	-46.9	-7.9	0.3	-24.5
-169.0	-21.5	-46.3	-7.8	0.5	-24.3
-168.5	-21.3	-46.1	-7.7	0.3	-24.5
-168.0	-20.5	-45.3	-7.6	-0.4	-25.2
-167.5	-19.8	-44.6	-7.5	-1.9	-26.7
-167.0	-19.6	-44.4	-7.4	-4.1	-28.9
-166.5	-19.9	-44.7	-7.3	-8.7	-33.5
-166.0	-19.3	-44.1	-7.2	-17.1	-41.9
-165.5	-19.7	-44.5	-7.1	-17.3	-42.1
-165.0	-20.5	-45.3	-7.0	-7.8	-32.6
-164.5	-23.8	-48.6	-6.9	-3.3	-28.1
-164.0	-23.5	-48.3	-6.8	-0.7	-25.5
-163.5	-21.7	-46.5	-6.7	1.1	-23.7
-163.0	-18.0	-42.8	-6.6	2.1	-22.7
-162.5	-16.5	-41.3	-6.5	2.5	-22.3
-162.0	-15.8	-40.6	-6.4	2.5	-22.3
-161.5	-16.9	-41.7	-6.3	1.8	-23.0
-161.0	-19.9	-44.7	-6.2	0.7	-24.1
-160.5	-24.5	-49.3	-6.1	-1.3	-26.1
-160.0	-35.2	-60.0	-6.0	-4.2	-29.0
-159.5	-27.0	-51.8	-5.9	-8.1	-32.9
-159.0	-20.6	-45.4	-5.8	-5.4	-30.2
-158.5	-16.5	-41.3	-5.7	-0.9	-25.7
-158.0	-15.0	-39.8	-5.6	2.4	-22.4
-157.5	-13.8	-38.6	-5.5	4.8	-20.0
-157.0	-12.9	-37.7	-5.4	6.5	-18.3
-156.5	-12.9	-37.7	-5.3	7.7	-17.1
-156.0	-13.6	-38.4	-5.2	8.5	-16.3
-155.5	-14.0	-38.8	-5.1	8.9	-15.9
-155.0	-16.1	-40.9	-5.0	8.9	-15.9
-154.5	-17.7	-42.5	-4.9	8.4	-16.4
-154.0	-20.0	-44.8	-4.8	7.5	-17.3
-153.5	-21.2	-46.0	-4.7	6.0	-18.8
-153.0	-22.1	-46.9	-4.6	3.6	-21.2
-152.5	-20.5	-45.3	-4.5	-0.4	-25.2
-152.0	-18.4	-43.2	-4.4	-5.1	-29.9
-151.5	-17.6	-42.4	-4.3	-0.5	-25.3
-151.0	-17.7	-42.5	-4.2	4.0	-20.8
-150.5	-18.3	-43.1	-4.1	7.4	-17.4
-150.0	-20.1	-44.9	-4.0	9.7	-15.1
-149.5	-22.6	-47.4	-3.9	11.4	-13.4
-149.0	-23.4	-48.2	-3.8	12.6	-12.2
-148.5	-22.4	-47.2	-3.7	13.3	-11.5
-148.0	-19.7	-44.5	-3.6	13.7	-11.1
-147.5	-17.6	-42.4	-3.5	13.7	-11.1
-147.0	-15.9	-40.7	-3.4	13.4	-11.4
-146.5	-15.0	-39.8	-3.3	12.7	-12.1
-146.0	-16.1	-40.9	-3.2	11.4	-13.4
-145.5	-18.4	-43.2	-3.1	9.8	-15.0
-145.0	-22.3	-47.1	-3.0	7.2	-17.6
-144.5	-30.4	-55.2	-2.9	4.0	-20.8
-144.0	-24.4	-49.2	-2.8	1.3	-23.5
-143.5	-18.1	-42.9	-2.7	2.4	-22.4
-143.0	-16.9	-41.7	-2.6	5.6	-19.2
-142.5	-15.6	-40.4	-2.5	7.5	-17.3
-142.0	-17.0	-41.8	-2.4	9.0	-15.8
-141.5	-19.3	-44.1	-2.3	9.6	-15.2
-141.0	-27.5	-52.3	-2.2	9.7	-15.1
-140.5	-29.7	-54.5	-2.1	10.3	-14.5
-140.0	-20.5	-45.3	-2.0	12.4	-12.4
-139.5	-17.6	-42.4	-1.9	15.4	-9.4
-139.0	-17.0	-41.8	-1.8	18.5	-6.3
-138.5	-17.3	-42.1	-1.7	21.4	-3.4
-138.0	-18.0	-42.8	-1.6	24.0	-0.8
-137.5	-19.3	-44.1	-1.5	26.2	1.4
-137.0	-19.9	-44.7	-1.4	28.1	3.3
-136.5	-21.3	-46.1	-1.3	29.9	5.1
-136.0	-21.8	-46.6	-1.2	31.4	6.6
-135.5	-22.8	-47.6	-1.1	32.7	7.9
-135.0	-22.3	-47.1	-1.0	33.9	9.1
-134.5	-26.5	-51.3	-0.9	34.9	10.1
-134.0	-36.3	-61.1	-0.8	35.8	11.0
-133.5	-26.1	-50.9	-0.7	36.7	11.9
-133.0	-18.4	-43.2	-0.6	37.4	12.6
-132.5	-15.0	-39.8	-0.5	38.0	13.2
-132.0	-12.4	-37.2	-0.4	38.5	13.7
-131.5	-12.3	-37.1	-0.3	38.9	14.1
-131.0	-13.7	-38.5	-0.2	39.2	14.4
-130.5	-17.3	-42.1	-0.1	39.4	14.6
-130.0	-24.2	-49.0	0.0	39.5	14.7
-129.5	-28.7	-53.5	0.1	39.6	14.8
-129.0	-19.8	-44.6	0.2	39.5	14.7
-128.5	-16.2	-41.0	0.3	39.3	14.5
-128.0	-16.0	-40.8	0.4	39.0	14.2
-127.5	-17.1	-41.9	0.5	38.6	13.8
-127.0	-19.2	-44.0	0.6	38.1	13.3
-126.5	-20.2	-45.0	0.7	37.5	12.7
-126.0	-20.4	-45.2	0.8	36.9	12.1
-125.5	-18.8	-43.6	0.9	36.0	11.2
-125.0	-18.6	-43.4	1.0	35.1	10.3



-124.5	-19.7	-44.5	1.1	34.1	9.3
-124.0	-19.5	-44.3	1.2	32.9	8.1
-123.5	-17.6	-42.4	1.3	31.5	6.7
-123.0	-15.5	-40.3	1.4	30.1	5.3
-122.5	-14.3	-39.1	1.5	28.3	3.5
-122.0	-15.3	-40.1	1.6	26.3	1.5
-121.5	-17.5	-42.3	1.7	24.0	-0.8
-121.0	-23.9	-48.7	1.8	21.4	-3.4
-120.5	-35.6	-60.4	1.9	18.6	-6.2
-120.0	-20.3	-45.1	2.0	15.5	-9.3
-119.5	-16.0	-40.8	2.1	13.4	-11.4
-119.0	-13.7	-38.5	2.2	12.9	-11.9
-118.5	-13.6	-38.4	2.3	13.4	-11.4
-118.0	-15.1	-39.9	2.4	13.7	-11.1
-117.5	-17.1	-41.9	2.5	13.6	-11.2
-117.0	-22.8	-47.6	2.6	13.0	-11.8
-116.5	-24.6	-49.4	2.7	11.6	-13.2
-116.0	-20.9	-45.7	2.8	9.6	-15.2
-115.5	-19.3	-44.1	2.9	6.8	-18.0
-115.0	-18.5	-43.3	3.0	2.8	-22.0
-114.5	-19.0	-43.8	3.1	1.2	-23.6
-114.0	-16.5	-41.3	3.2	4.6	-20.2
-113.5	-16.3	-41.1	3.3	7.7	-17.1
-113.0	-18.1	-42.9	3.4	9.9	-14.9
-112.5	-20.8	-45.6	3.5	11.3	-13.5
-112.0	-29.3	-54.1	3.6	12.3	-12.5
-111.5	-25.5	-50.3	3.7	12.7	-12.1
-111.0	-20.4	-45.2	3.8	12.8	-12.0
-110.5	-20.4	-45.2	3.9	12.5	-12.3
-110.0	-21.8	-46.6	4.0	11.7	-13.1
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-106.5	-18.9	-43.7	4.7	-0.3	-25.1
-106.0	-17.0	-41.8	4.8	2.9	-21.9
-105.5	-18.7	-43.5	4.9	4.8	-20.0
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126.0	-36.1	-60.9
126.5	-25.3	-50.1
127.0	-22.0	-46.8
127.5	-20.5	-45.3
128.0	-21.8	-46.6
128.5	-18.2	-43.0
129.0	-15.1	-39.9
129.5	-13.3	-38.1
130.0	-13.9	-38.7
130.5	-15.3	-40.1
131.0	-17.9	-42.7
131.5	-19.3	-44.1
132.0	-16.2	-41.0
132.5	-13.7	-38.5
133.0	-11.9	-36.7
133.5	-11.5	-36.3
134.0	-13.0	-37.8
134.5	-14.8	-39.6
135.0	-19.0	-43.8
135.5	-27.5	-52.3
136.0	-33.2	-58.0
136.5	-21.9	-46.7
137.0	-18.8	-43.6
137.5	-17.2	-42.0
138.0	-17.8	-42.6
138.5	-17.5	-42.3
139.0	-16.9	-41.7
139.5	-16.4	-41.2
140.0	-16.0	-40.8
140.5	-16.4	-41.2
141.0	-17.3	-42.1
141.5	-20.2	-45.0
142.0	-25.6	-50.4
142.5	-41.9	-66.7
143.0	-22.5	-47.3
143.5	-17.6	-42.4
144.0	-14.5	-39.3
144.5	-13.6	-38.4
145.0	-13.9	-38.7
145.5	-14.4	-39.2
146.0	-15.9	-40.7
146.5	-19.9	-44.7
147.0	-26.3	-51.1
147.5	-21.8	-46.6
148.0	-19.1	-43.9
148.5	-16.7	-41.5
149.0	-17.3	-42.1
149.5	-17.9	-42.7
150.0	-21.3	-46.1
150.5	-24.0	-48.8
151.0	-29.5	-54.3
151.5	-28.5	-53.3
152.0	-29.2	-54.0
152.5	-25.3	-50.1
153.0	-22.3	-47.1
153.5	-22.3	-47.1
154.0	-22.4	-47.2
154.5	-27.2	-52.0
155.0	-33.7	-58.5
155.5	-36.6	-61.4
156.0	-25.0	-49.8
156.5	-21.7	-46.5
157.0	-19.0	-43.8
157.5	-16.7	-41.5
158.0	-16.4	-41.2
158.5	-16.0	-40.8
159.0	-16.6	-41.4
159.5	-17.5	-42.3
160.0	-18.8	-43.6
160.5	-20.7	-45.5
161.0	-22.7	-47.5
161.5	-24.7	-49.5
162.0	-24.1	-48.9
162.5	-25.0	-49.8
163.0	-22.9	-47.7
163.5	-20.3	-45.1
164.0	-22.0	-46.8
164.5	-21.2	-46.0
165.0	-22.8	-47.6

165.5	-22.8	-47.6
166.0	-24.5	-49.3
166.5	-23.2	-48.0
167.0	-21.3	-46.1
167.5	-20.0	-44.8
168.0	-18.8	-43.6
168.5	-19.2	-44.0
169.0	-18.5	-43.3
169.5	-19.7	-44.5
170.0	-21.9	-46.7
170.5	-24.6	-49.4
171.0	-31.8	-56.6
171.5	-32.4	-57.2
172.0	-25.2	-50.0
172.5	-21.6	-46.4
173.0	-19.2	-44.0
173.5	-19.0	-43.8
174.0	-19.7	-44.5
174.5	-22.2	-47.0
175.0	-26.6	-51.4
175.5	-27.4	-52.2
176.0	-25.4	-50.2
176.5	-21.3	-46.1
177.0	-19.7	-44.5
177.5	-18.5	-43.3
178.0	-19.9	-44.7
178.5	-21.2	-46.0
179.0	-22.6	-47.4
180.0	-21.9	-46.7