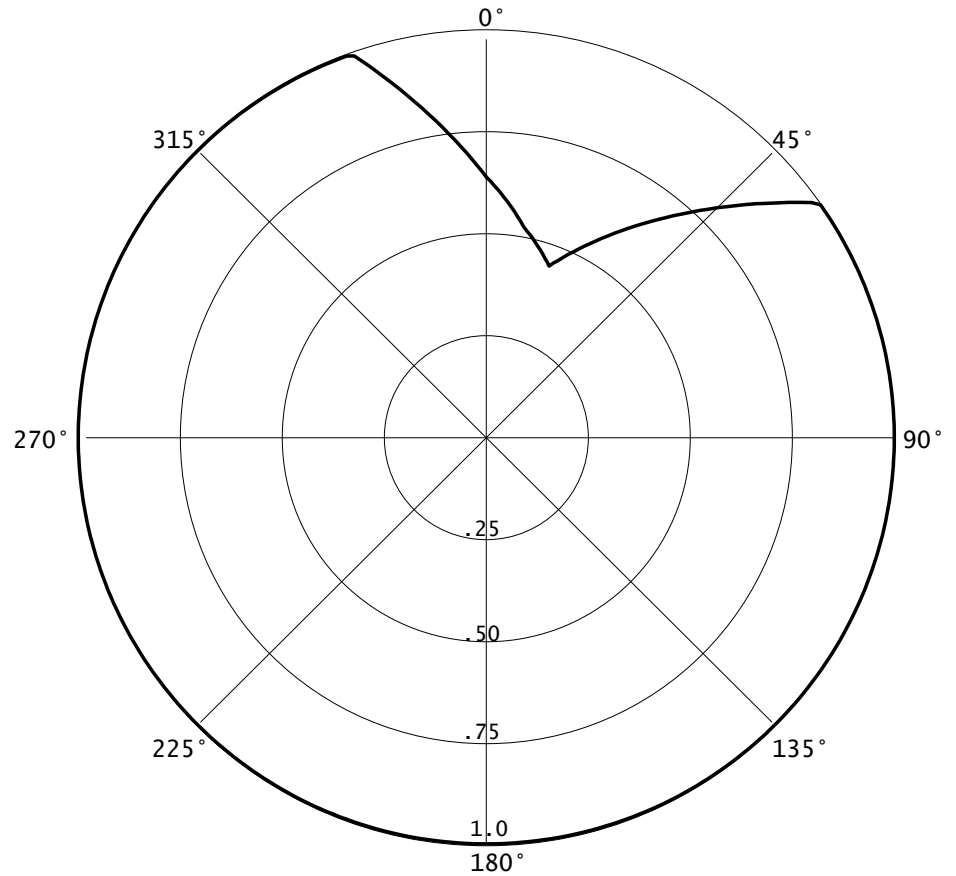


Graph is Relative Field

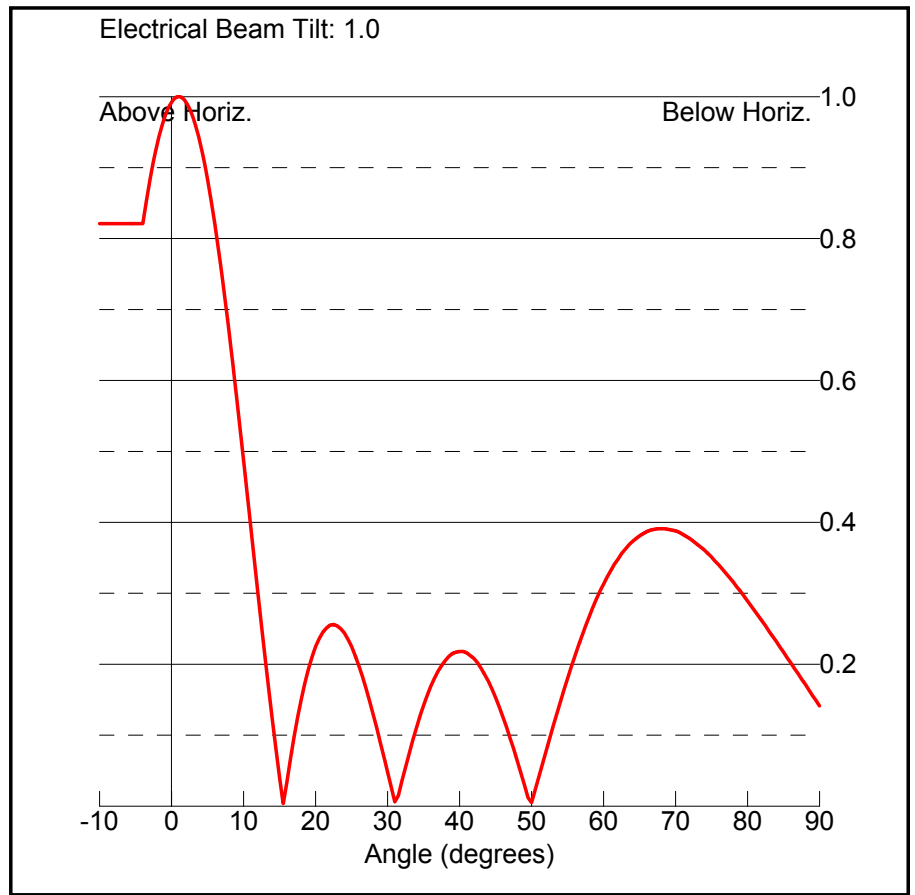
Azi	Field	dBk	kw
000	0.642	05.024	3.180
010	0.527	03.310	2.143
020	0.450	01.938	1.562
030	0.567	03.945	2.480
040	0.714	05.947	3.933
050	0.898	07.939	6.221
060	1.000	08.873	7.715
070	1.000	08.873	7.715
080	1.000	08.873	7.715
090	1.000	08.873	7.715
100	1.000	08.873	7.715
110	1.000	08.873	7.715
120	1.000	08.873	7.715
130	1.000	08.873	7.715
140	1.000	08.873	7.715
150	1.000	08.873	7.715
160	1.000	08.873	7.715
170	1.000	08.873	7.715
180	1.000	08.873	7.715
190	1.000	08.873	7.715
200	1.000	08.873	7.715
210	1.000	08.873	7.715
220	1.000	08.873	7.715
230	1.000	08.873	7.715
240	1.000	08.873	7.715
250	1.000	08.873	7.715
260	1.000	08.873	7.715
270	1.000	08.873	7.715
280	1.000	08.873	7.715
290	1.000	08.873	7.715
300	1.000	08.873	7.715
310	1.000	08.873	7.715
320	1.000	08.873	7.715
330	1.000	08.873	7.715
340	1.000	08.873	7.715
350	0.808	07.022	5.037



Beam Tilt - 1.0 Degrees

Proposed Vertical Elevation Pattern

Angle (deg)	Relative Field
-4.0	0.821
-3.75	0.837
-3.5	0.853
-3.25	0.868
-3.0	0.883
-2.75	0.897
-2.5	0.91
-2.25	0.922
-2.0	0.933
-1.75	0.944
-1.5	0.953
-1.25	0.962
-1.0	0.97
-0.75	0.977
-0.5	0.983
-0.25	0.988
0.0	0.992
0.25	0.996
0.5	0.998
0.75	1.0
1.0	1.0
1.25	1.0
1.5	0.998
1.75	0.996
2.0	0.992
2.25	0.988
2.5	0.983
2.75	0.977
3.0	0.97
3.25	0.962
3.5	0.953
3.75	0.944
4.0	0.933
4.25	0.922
4.5	0.91
4.75	0.897
5.0	0.883
5.25	0.868
5.5	0.853
5.75	0.837
6.0	0.821
6.25	0.803
6.5	0.785
6.75	0.767
7.0	0.748
7.25	0.728
7.5	0.708
7.75	0.688



8.0	0.667
8.25	0.645
8.5	0.624
8.75	0.601
9.0	0.579
9.25	0.556
9.5	0.533
9.75	0.51
10.0	0.487
10.25	0.464
10.5	0.44
10.75	0.417
11.0	0.393
11.5	0.346
12.0	0.299
12.5	0.253
13.0	0.208
13.5	0.164
14.0	0.121
14.5	0.08
15.0	0.04
15.5	0.003

16.0	0.033	42.0	0.208
16.5	0.066	42.5	0.202
17.0	0.097	43.0	0.194
17.5	0.125	43.5	0.185
18.0	0.15	44.0	0.176
18.5	0.173	44.5	0.165
19.0	0.193	45.0	0.153
19.5	0.21	45.5	0.14
20.0	0.225	46.0	0.126
20.5	0.236	46.5	0.112
21.0	0.245	47.0	0.096
21.5	0.251	47.5	0.081
22.0	0.255	48.0	0.064
22.5	0.256	48.5	0.047
23.0	0.254	49.0	0.03
23.5	0.25	49.5	0.012
24.0	0.244	50.0	0.005
24.5	0.235	50.5	0.023
25.0	0.225	51.0	0.041
25.5	0.212	51.5	0.059
26.0	0.198	52.0	0.077
26.5	0.183	52.5	0.095
27.0	0.166	53.0	0.113
27.5	0.148	53.5	0.13
28.0	0.129	54.0	0.147
28.5	0.11	54.5	0.164
29.0	0.089	55.0	0.18
29.5	0.069	55.5	0.196
30.0	0.048	56.0	0.211
30.5	0.027	56.5	0.226
31.0	0.006	57.0	0.24
31.5	0.015	57.5	0.254
32.0	0.036	58.0	0.267
32.5	0.055	58.5	0.28
33.0	0.074	59.0	0.292
33.5	0.093	59.5	0.303
34.0	0.11	60.0	0.313
34.5	0.127	60.5	0.323
35.0	0.142	61.0	0.332
35.5	0.156	61.5	0.341
36.0	0.169	62.0	0.348
36.5	0.18	62.5	0.356
37.0	0.19	63.0	0.362
37.5	0.198	63.5	0.368
38.0	0.205	64.0	0.373
38.5	0.211	64.5	0.377
39.0	0.215	65.0	0.381
39.5	0.217	65.5	0.384
40.0	0.218	66.0	0.387
40.5	0.218	66.5	0.389
41.0	0.216	67.0	0.39
41.5	0.212	67.5	0.391

Directional Antenna

The proposed custom directional antenna pattern meets the Commission's rules in that the radio frequency emission does not change more than two dB for each ten degrees of azimuthal variation. Also, the maximum pattern attenuation in the deepest null is less than 15 dB. The pattern shown is a composite of the maximum field values in the horizontal and vertical planes.

The proposed antenna will be mounted on the side of a tower using mountings that have been specified by the antenna manufacturer in accordance with the instructions provided by the manufacturer. The antenna will not be mounted on the top of a tower that includes a top mounted platform larger than the nominal cross-sectional area of the tower in the horizontal plane. No other antennas of any type will be mounted at the same tower level as the directional antenna nor within the horizontal or vertical distance specified by the manufacturer as being necessary to maintain proper directional operation. The antenna will be designed and tested by a major manufacturer of broadcast antennas known to the Commission. The pattern will be achieved through traditional methods including power-splitting, resonators and phasing.