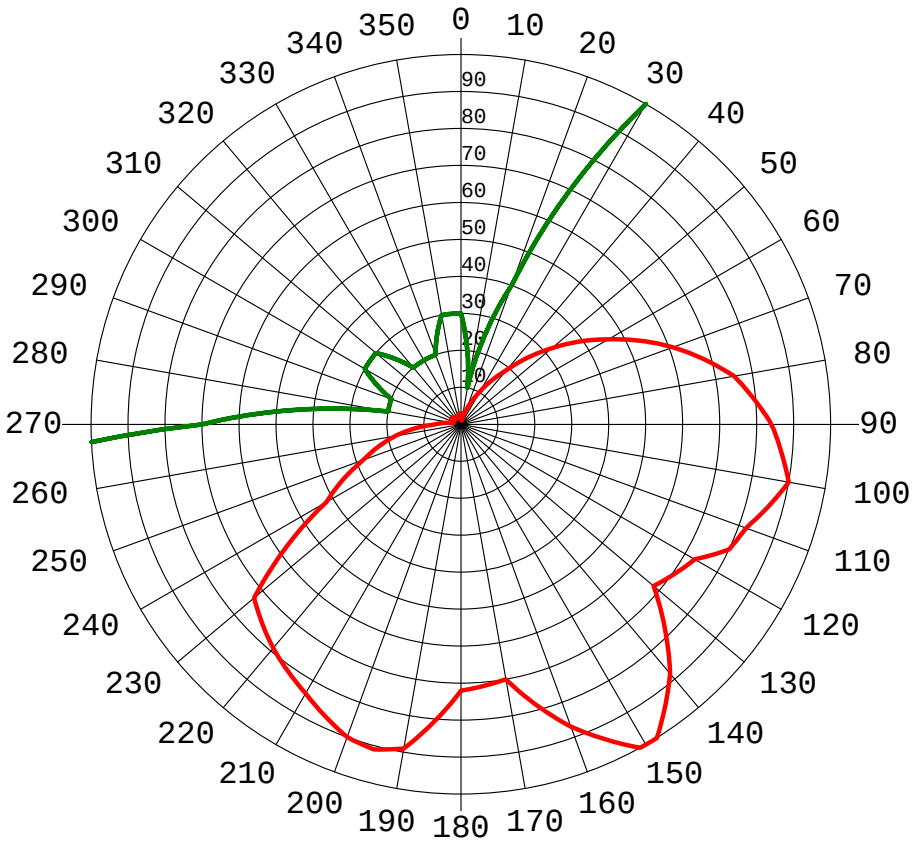
Horizontal Azimuth Pattern

MCI Series 953422



Azi	Rel	dBk	kW	dB
0	0.030	-20.46	0.009	-30.46
10	0.010	-30.00	0.001	-40.00
20	0.040	-17.96	0.016	-27.96
30	0.100	-10.00	0.100	-20.00
40	0.190	-4.42	0.361	-14.42
50	0.320	0.10	1.024	-9.90
60	0.460	3.26	2.116	-6.74
70	0.610	5.71	3.721	-4.29
80	0.750	7.50	5.625	-2.50
90	0.840	8.49	7.056	-1.51
100	0.900	9.08	8.100	-0.92
110	0.820	8.28	6.724	-1.72
120	0.730	7.27	5.329	-2.73
130	0.680	6.65	4.624	-3.35
140	0.880	8.89	7.744	-1.11
150	1.000	10.00	10.000	0.00
160	0.870	8.79	7.569	-1.21
170	0.700	6.90	4.900	-3.10

Azi	Rel	dBk	kW	dB
180	0.720	7.15	5.184	-2.85
190	0.890	8.99	7.921	-1.01
200	0.900	9.08	8.100	-0.92
210	0.840	8.49	7.056	-1.51
220	0.790	7.95	6.241	-2.05
230	0.730	7.27	5.329	-2.73
240	0.420	2.46	1.764	-7.54
250	0.280	-1.06	0.784	-11.06
260	0.180	-4.89	0.324	-14.89
270	0.070	-13.10	0.049	-23.10
280	0.020	-23.98	0.004	-33.98
290	0.020	-23.98	0.004	-33.98
300	0.030	-20.46	0.009	-30.46
310	0.030	-20.46	0.009	-30.46
320	0.020	-23.98	0.004	-33.98
330	0.020	-23.98	0.004	-33.98
340	0.020	-23.98	0.004	-33.98
350	0.030	-20.46	0.009	-30.46

Rotation Angle = 0

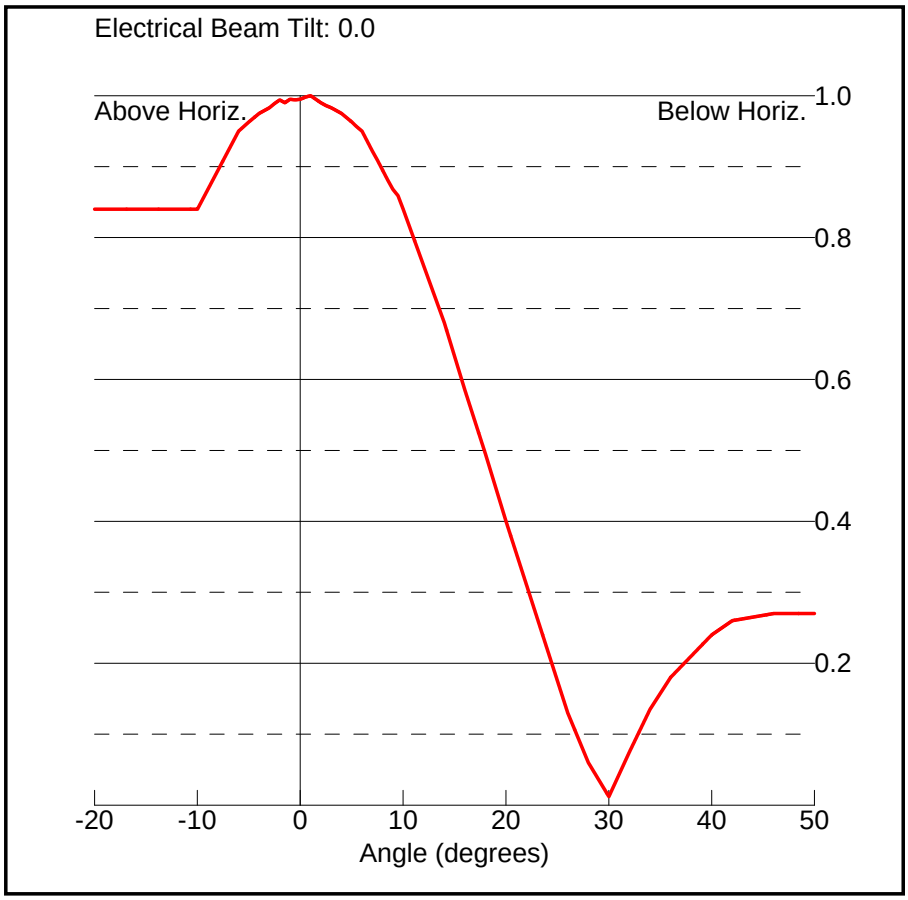
Additional Points

Azi	Rel	dBk	kW	dB	Azi	Rel	dBk	kW	dB
115	0.800	8.06	6.400	-1.94	151	1.000	10.00	10.000	0.00
148	1.000	10.00	10.000	0.00	195	0.910	9.18	8.281	-0.82
149	1.000	10.00	10.000	0.00					

Minor Lobes.

127	0.670	6.78	4.761	-3.22	173	0.695	6.84	5.013	-2.999

Vertical Elevation Pattern



Angle (deg)	Relative Field
-10.0	0.84
-8.0	0.895
-6.0	0.95
-5.0	0.963
-4.5	0.969
-4.0	0.975
-3.5	0.979
-3.0	0.983
-2.5	0.989
-2.0	0.994
-1.5	0.99
-1.0	0.995
-0.5	0.994
0.0	0.995
0.5	0.998
1.0	1.0
1.5	0.995
2.0	0.99
2.5	0.986
3.0	0.983
3.5	0.979
4.0	0.975
4.5	0.969
5.0	0.963
5.5	0.956
6.0	0.95
6.5	0.936
7.0	0.922
7.5	0.909
8.0	0.895
8.5	0.881
9.0	0.868
9.5	0.859
10.0	0.84
12.0	0.76
14.0	0.68
16.0	0.585
18.0	0.495
20.0	0.4
22.0	0.31
24.0	0.22
26.0	0.13
28.0	0.06
30.0	0.012
32.0	0.075
34.0	0.135
36.0	0.18
38.0	0.21
40.0	0.24
42.0	0.26
46.0	0.27

N. Lat. = 380954.4   W. Lng. = 791850.1
HAAT and Distance to Contour,
FCC OET,TV 3.2 - 16.1, 130 pts - NED 03 SEC

WVPT1, Shenandoah Valley Educationa, BLEDT20130214ACP

Azi.	AV EL	HAAT	ERP kW	dBk	Field	DAng	VFld	D-kW	%Max	D-dBk	36-F9
000	653.2	679.8	0.0090	-20.46	0.030	0.722	0.999	0.0090	99.9	-20.46	56.99
010	713.7	619.3	0.0010	-30.00	0.010	0.689	0.999	0.0010	99.9	-30.00	39.26
020	825.7	507.3	0.0160	-17.96	0.040	0.624	0.998	0.0160	99.8	-17.96	54.93
030	819.7	513.3	0.0010	-30.00	0.010	0.628	0.999	0.0010	99.9	-30.00	35.03
040	726.6	606.4	0.3610	-4.42	0.190	0.682	0.999	0.3601	99.9	-4.42	84.93
050	611.2	721.8	1.0240	0.10	0.320	0.744	0.999	1.0219	99.9	0.10	96.40
060	565.3	767.7	2.1160	3.26	0.460	0.767	0.999	2.1121	99.9	3.26	103.68
070	524.1	808.9	3.7210	5.71	0.610	0.788	0.999	3.7147	99.9	5.71	109.39
080	548.5	784.5	5.6250	7.50	0.750	0.776	0.999	5.6149	99.9	7.50	112.50
090	552.5	780.5	7.0560	8.49	0.840	0.774	0.999	7.0432	99.9	8.49	114.44
100	548.6	784.4	8.1000	9.08	0.900	0.776	0.999	8.0855	99.9	9.08	115.82
110	573.7	759.3	6.7240	8.28	0.820	0.763	0.999	6.7113	99.9	8.28	113.54
120	589.8	743.2	5.3290	7.27	0.730	0.755	0.999	5.3186	99.9	7.27	111.17
130	605.9	727.1	4.6240	6.65	0.680	0.747	0.999	4.6146	99.9	6.65	109.56
140	622.9	710.1	7.7440	8.89	0.880	0.738	0.999	7.7278	99.9	8.89	113.63
150	611.6	721.4	10.0000	10.00	1.000	0.744	0.999	9.9795	99.9	10.00	116.36
160	614.1	718.9	7.5690	8.79	0.870	0.743	0.999	7.5534	99.9	8.79	113.65
170	633.9	699.1	4.9000	6.90	0.700	0.732	0.999	4.8895	99.9	6.90	109.36
180	608.5	724.5	5.1840	7.15	0.720	0.746	0.999	5.1735	99.9	7.15	110.49
190	596.4	736.6	7.9210	8.99	0.890	0.752	0.999	7.9053	99.9	8.99	114.51
200	558.1	774.9	8.1000	9.08	0.900	0.771	0.999	8.0852	99.9	9.08	115.62
210	550.0	783.0	7.0560	8.49	0.840	0.775	0.999	7.0433	99.9	8.49	114.49
220	647.5	685.5	6.2410	7.95	0.790	0.725	0.999	6.2273	99.9	7.95	111.09
230	761.5	571.5	5.3290	7.27	0.730	0.662	0.999	5.3146	99.9	7.27	105.87
240	671.8	661.2	1.7640	2.46	0.420	0.712	0.999	1.7599	99.9	2.46	99.48
250	656.3	676.7	0.7840	-1.06	0.280	0.721	0.999	0.7822	99.9	-1.06	93.10
260	647.2	685.8	0.3240	-4.89	0.180	0.725	0.999	0.3233	99.9	-4.89	86.30
270	678.8	654.2	0.0490	-13.10	0.070	0.708	0.999	0.0489	99.9	-13.10	69.42
280	663.2	669.8	0.0040	-23.98	0.020	0.717	0.999	0.0040	99.9	-23.98	51.13
290	667.6	665.4	0.0040	-23.98	0.020	0.715	0.999	0.0040	99.9	-23.98	51.00
300	668.4	664.6	0.0090	-20.46	0.030	0.714	0.999	0.0090	99.9	-20.46	56.61
310	705.4	627.6	0.0090	-20.46	0.030	0.694	0.999	0.0090	99.9	-20.46	55.57
320	734.9	598.1	0.0040	-23.98	0.020	0.677	0.999	0.0040	99.9	-23.98	48.50
330	699.3	633.7	0.0040	-23.98	0.020	0.697	0.999	0.0040	99.9	-23.98	49.94
340	697.3	635.7	0.0040	-23.98	0.020	0.698	0.999	0.0040	99.9	-23.98	50.02
350	660.7	672.3	0.0090	-20.46	0.030	0.718	0.999	0.0090	99.9	-20.46	56.81

Ave El= 644.82 M HAAT= 688.18 M AMSL= 1333 M