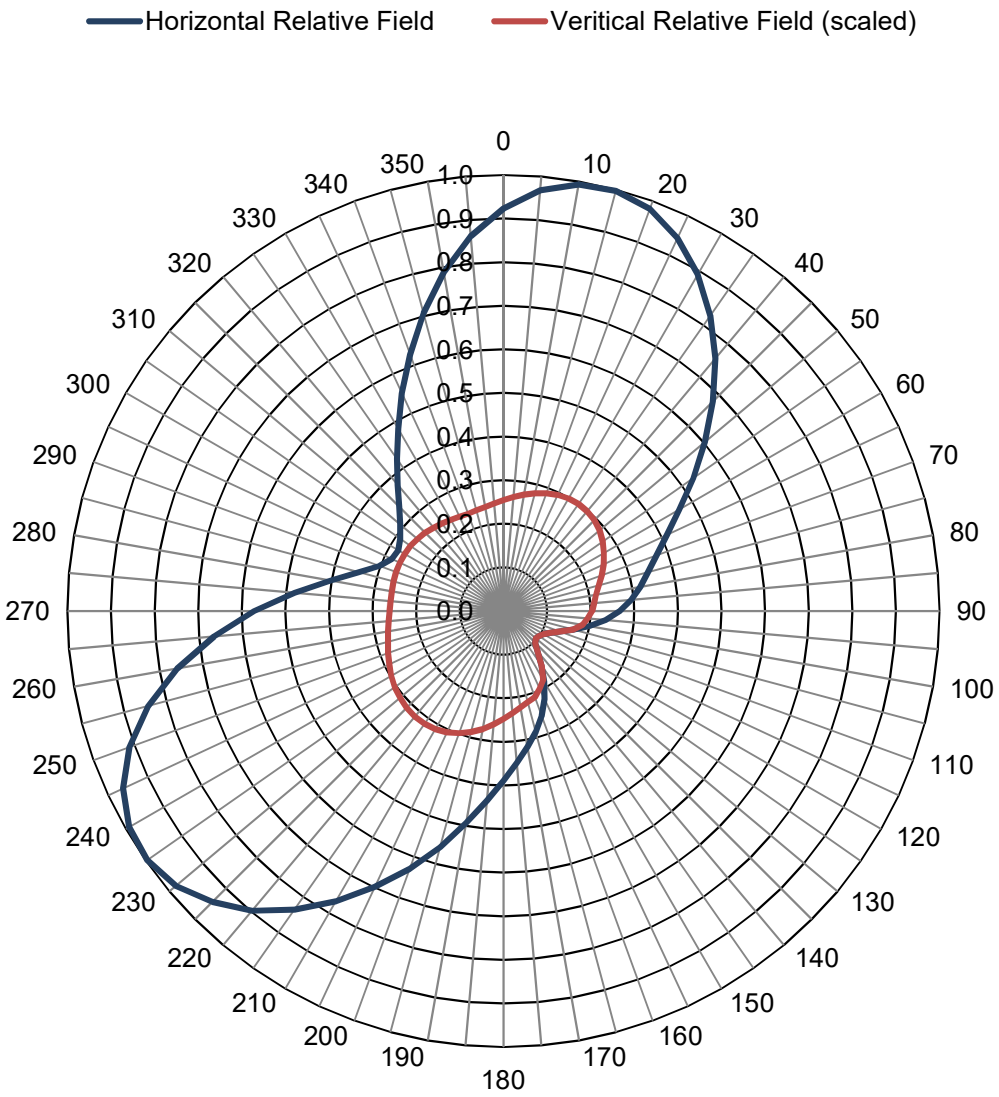
Composite Azimuth Patterns

Type:	ALP-BRe		**Polarization:**	Elliptical
Directivity (H-Pol):	2.76 numeric	(4.41 dB)	**Frequency:**	14 (ATSC)
Directivity (V-Pol):	1.60 numeric	(2.05 dB)	**Location:**	Hickory NC
Percent Horizontal:	85.31%		NOTE: Pattern shape and directivity may vary with channel and mounting	
Percent Vertical:	14.69%			
Power Ratio:	17.22%			
ERP V/H Ratio::	10.00%			

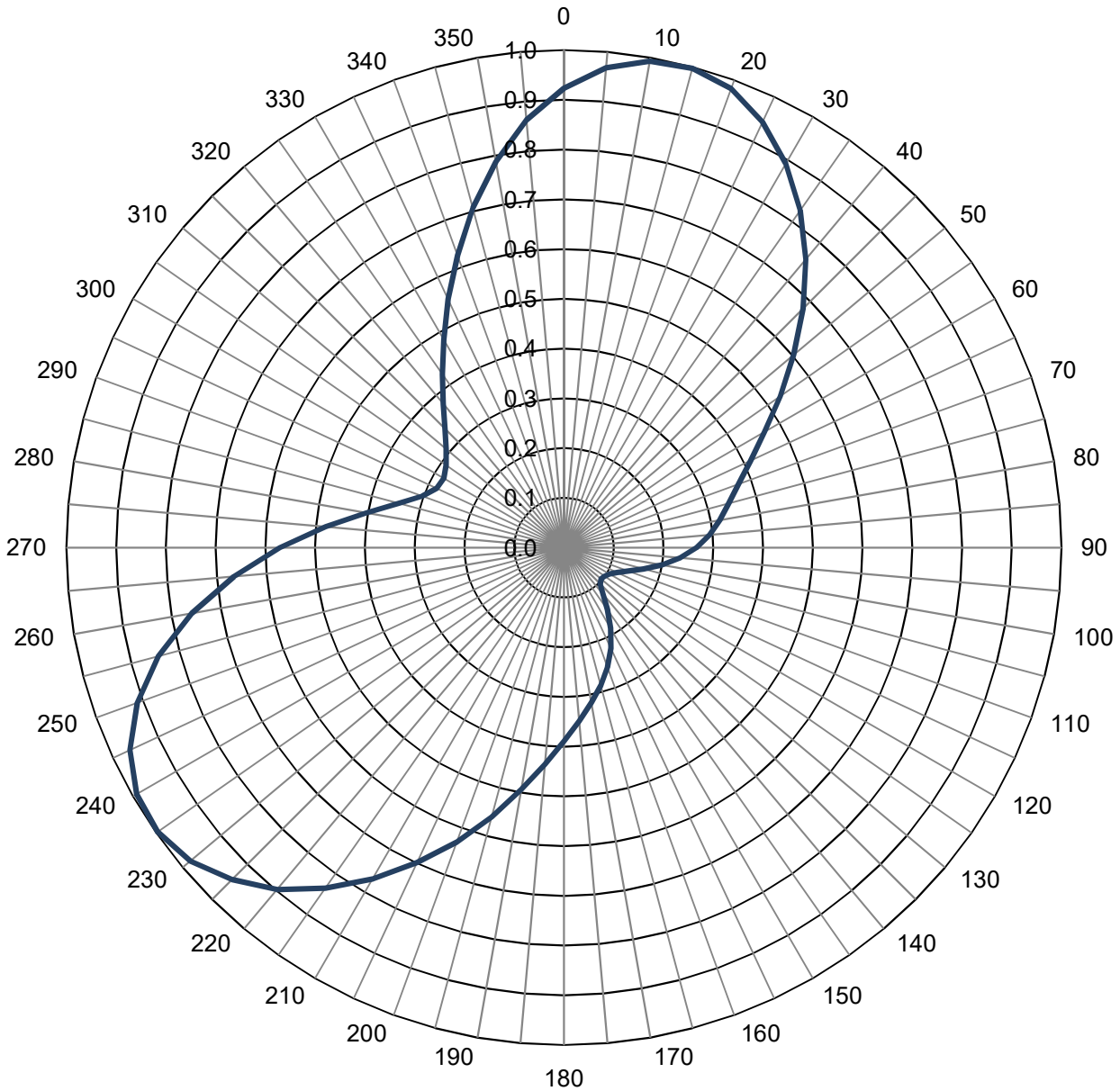


Azimuth Pattern

Type:	ALP-BRe		**Polarization:**	Horizontal
Directivity:	2.76 numeric	(4.41 dB)	**Frequency:**	14 (ATSC)
Peak(s) at:			**Location:**	Hickory NC

NOTE: Pattern shape and directivity may vary with channel and mounting configuration.

Relative Field



Tabulated Data for Azimuth Pattern

Type: ALP-BRe

Angle	Field	dB
0	0.923	-0.69
2	0.943	-0.51
4	0.963	-0.33
6	0.977	-0.20
8	0.986	-0.12
10	0.993	-0.06
12	0.997	-0.03
14	1.000	0.00
16	0.995	-0.05
18	0.990	-0.09
20	0.982	-0.16
22	0.968	-0.29
24	0.955	-0.40
26	0.934	-0.59
28	0.914	-0.78
30	0.891	-1.00
32	0.869	-1.22
34	0.843	-1.49
36	0.815	-1.77
38	0.785	-2.10
40	0.756	-2.43
42	0.726	-2.78
44	0.694	-3.17
46	0.666	-3.53
48	0.632	-3.99
50	0.603	-4.40
52	0.574	-4.82
54	0.545	-5.27
56	0.518	-5.71
58	0.490	-6.19
60	0.466	-6.64
62	0.444	-7.05
64	0.424	-7.46
66	0.405	-7.85
68	0.388	-8.23
70	0.373	-8.56
72	0.361	-8.86
74	0.348	-9.16
76	0.338	-9.42
78	0.328	-9.69
80	0.318	-9.94
82	0.309	-10.20
84	0.299	-10.49
86	0.289	-10.78
88	0.278	-11.11
90	0.266	-11.49
92	0.254	-11.89
94	0.241	-12.37
96	0.227	-12.87
98	0.213	-13.43

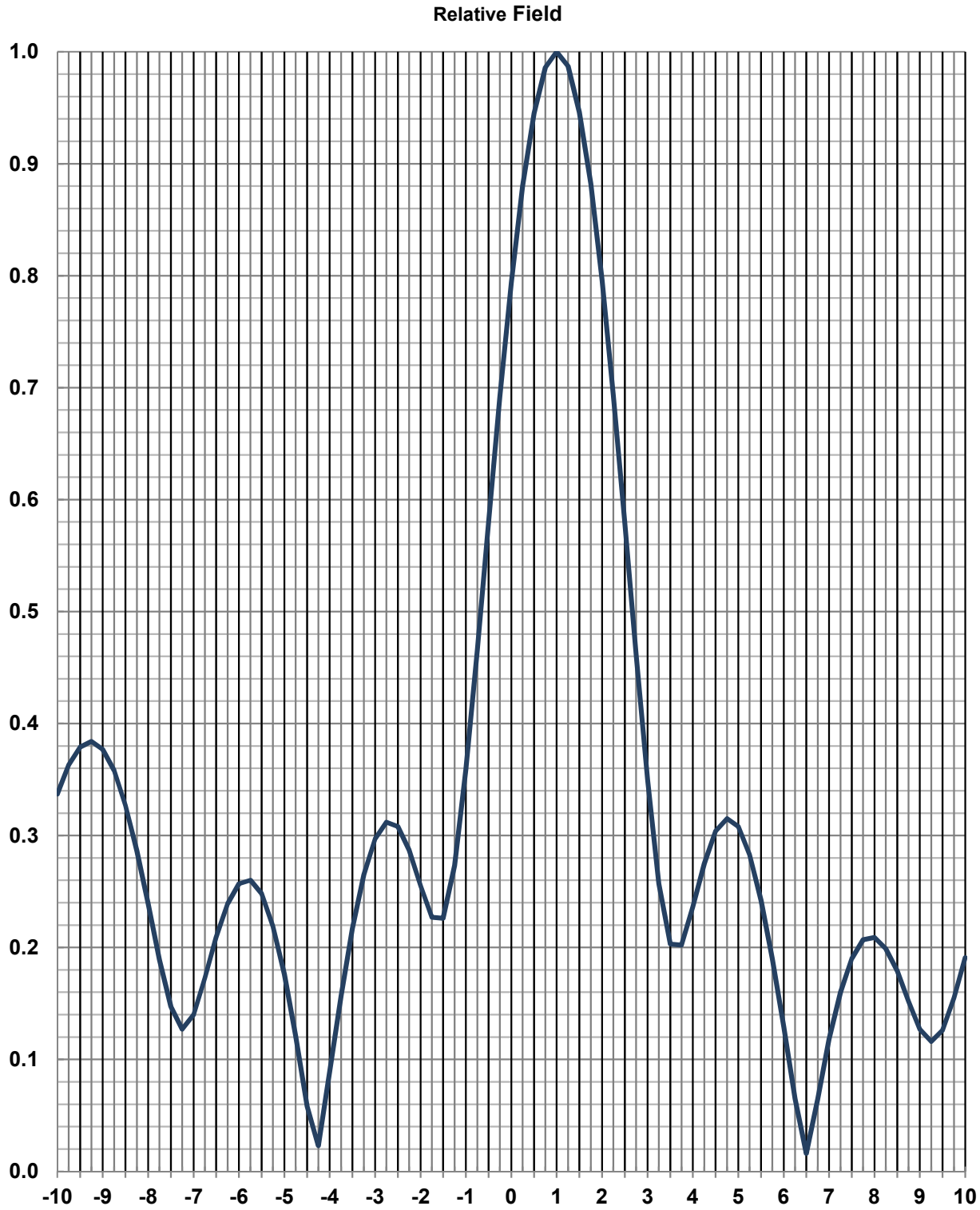
Angle	Field	dB
100	0.200	-13.98
102	0.186	-14.61
104	0.172	-15.30
106	0.160	-15.94
108	0.148	-16.62
110	0.137	-17.25
112	0.128	-17.83
114	0.121	-18.34
116	0.115	-18.77
118	0.110	-19.17
120	0.106	-19.48
122	0.103	-19.73
124	0.101	-19.92
126	0.099	-20.11
128	0.097	-20.23
130	0.097	-20.25
132	0.099	-20.12
134	0.101	-19.90
136	0.106	-19.53
138	0.112	-18.99
140	0.122	-18.26
142	0.133	-17.54
144	0.145	-16.75
146	0.159	-15.95
148	0.174	-15.20
150	0.188	-14.54
152	0.203	-13.86
154	0.217	-13.29
156	0.230	-12.77
158	0.243	-12.29
160	0.256	-11.84
162	0.268	-11.43
164	0.280	-11.07
166	0.292	-10.68
168	0.304	-10.34
170	0.316	-10.00
172	0.330	-9.64
174	0.343	-9.30
176	0.357	-8.95
178	0.372	-8.59
180	0.389	-8.20
182	0.407	-7.80
184	0.427	-7.38
186	0.448	-6.98
188	0.470	-6.57
190	0.493	-6.14
192	0.521	-5.66
194	0.547	-5.25
196	0.573	-4.83
198	0.600	-4.44

Angle	Field	dB
200	0.630	-4.02
202	0.658	-3.64
204	0.686	-3.27
206	0.716	-2.91
208	0.741	-2.61
210	0.769	-2.28
212	0.796	-1.98
214	0.823	-1.69
216	0.852	-1.39
218	0.874	-1.17
220	0.897	-0.94
222	0.918	-0.75
224	0.937	-0.57
226	0.955	-0.40
228	0.967	-0.29
230	0.981	-0.17
232	0.989	-0.10
234	0.996	-0.04
236	0.997	-0.03
238	0.996	-0.04
240	0.991	-0.08
242	0.983	-0.15
244	0.971	-0.26
246	0.954	-0.41
248	0.936	-0.58
250	0.913	-0.79
252	0.886	-1.05
254	0.861	-1.30
256	0.828	-1.64
258	0.794	-2.01
260	0.760	-2.38
262	0.722	-2.83
264	0.687	-3.26
266	0.646	-3.79
268	0.608	-4.32
270	0.571	-4.86
272	0.533	-5.46
274	0.498	-6.05
276	0.464	-6.66
278	0.432	-7.29
280	0.403	-7.90
282	0.377	-8.48
284	0.354	-9.02
286	0.333	-9.54
288	0.316	-10.01
290	0.303	-10.37
292	0.292	-10.70
294	0.284	-10.92
296	0.280	-11.06
298	0.278	-11.11

Angle	Field	dB
300	0.279	-11.09
302	0.282	-11.01
304	0.286	-10.87
306	0.293	-10.68
308	0.300	-10.45
310	0.309	-10.20
312	0.320	-9.91
314	0.332	-9.57
316	0.345	-9.25
318	0.361	-8.85
320	0.377	-8.47
322	0.396	-8.05
324	0.416	-7.62
326	0.436	-7.22
328	0.459	-6.77
330	0.483	-6.32
332	0.510	-5.84
334	0.539	-5.37
336	0.566	-4.95
338	0.597	-4.48
340	0.625	-4.08
342	0.660	-3.61
344	0.693	-3.18
346	0.724	-2.81
348	0.757	-2.42
350	0.788	-2.07
352	0.818	-1.74
354	0.848	-1.43
356	0.875	-1.16
358	0.901	-0.91
360	0.923	-0.69

Elevation Pattern

Type:	ALP16L4		**Polarization:**	Horizontal
Directivity:			**Frequency:**	14 (ATSC)
Main Lobe:	16.01 numeric	(12.04 dB)	**Location:**	Hickory NC
Horizontal:	10.09 numeric	(10.04 dB)	**Beam Tilt:**	1.00 degrees



Tabulated Data for Elevation Pattern

Type: ALP16L4

-10 to 10 degrees in 0.25 degree increments.
10 to 90 degrees in 0.50 degree increments.

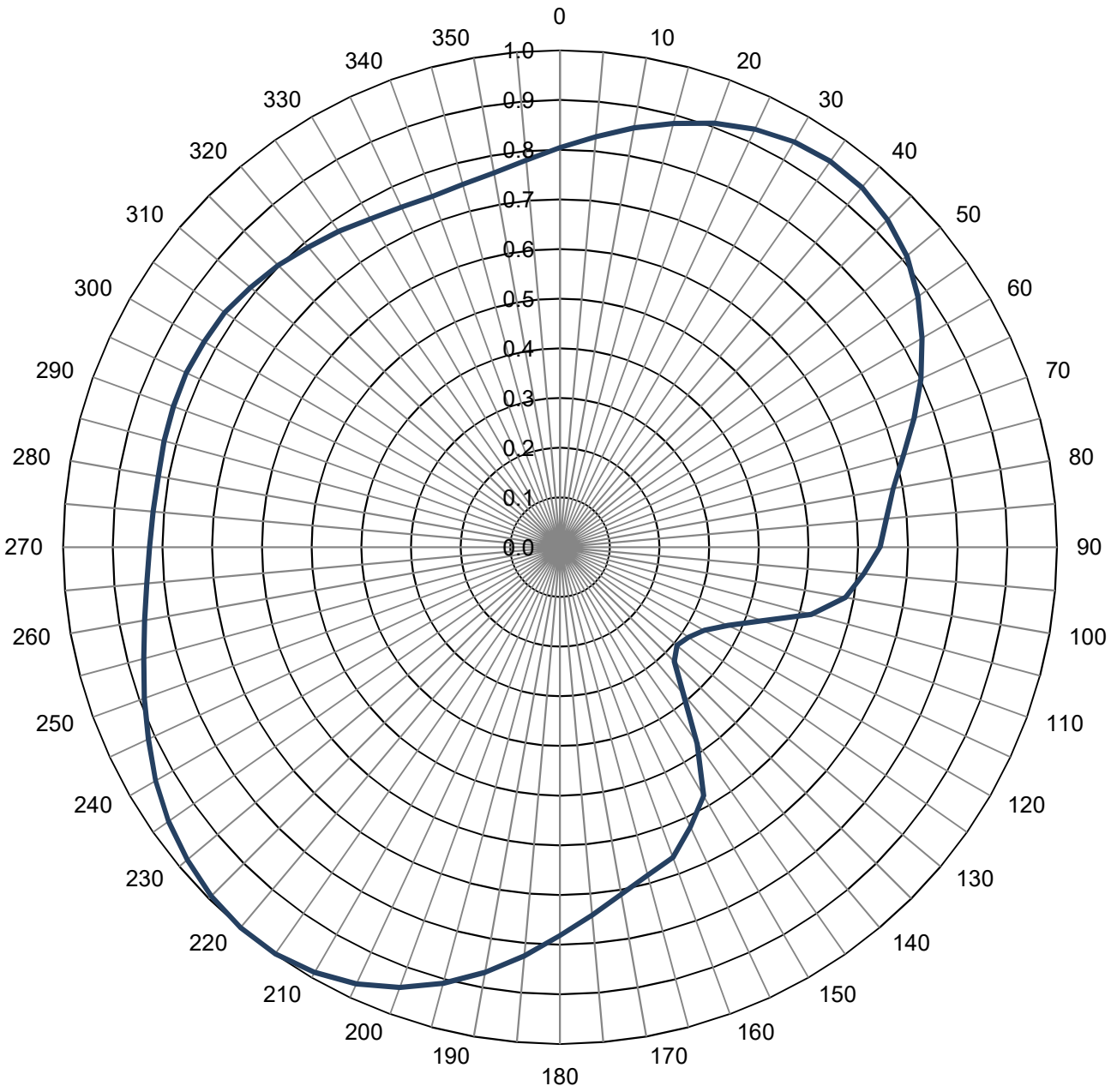
Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
-10.00	0.337	-9.45	2.25	0.693	-3.19	19.00	0.069	-23.22	43.50	0.035	-29.12	68.00	0.163	-15.76
-9.75	0.363	-8.80	2.50	0.579	-4.75	19.50	0.071	-22.97	44.00	0.042	-27.54	68.50	0.183	-14.75
-9.50	0.379	-8.43	2.75	0.462	-6.71	20.00	0.059	-24.58	44.50	0.042	-27.54	69.00	0.201	-13.94
-9.25	0.384	-8.31	3.00	0.350	-9.12	20.50	0.057	-24.88	45.00	0.037	-28.64	69.50	0.216	-13.31
-9.00	0.377	-8.47	3.25	0.257	-11.80	21.00	0.090	-20.92	45.50	0.029	-30.75	70.00	0.228	-12.84
-8.75	0.358	-8.92	3.50	0.203	-13.85	21.50	0.141	-17.02	46.00	0.021	-33.56	70.50	0.236	-12.54
-8.50	0.327	-9.71	3.75	0.202	-13.89	22.00	0.190	-14.42	46.50	0.018	-34.89	71.00	0.240	-12.40
-8.25	0.286	-10.87	4.00	0.236	-12.54	22.50	0.224	-13.00	47.00	0.021	-33.56	71.50	0.241	-12.36
-8.00	0.239	-12.43	4.25	0.275	-11.21	23.00	0.237	-12.51	47.50	0.023	-32.77	72.00	0.239	-12.43
-7.75	0.189	-14.47	4.50	0.304	-10.34	23.50	0.227	-12.88	48.00	0.021	-33.56	72.50	0.234	-12.62
-7.50	0.147	-16.65	4.75	0.315	-10.03	24.00	0.196	-14.15	48.50	0.014	-37.08	73.00	0.227	-12.88
-7.25	0.127	-17.92	5.00	0.308	-10.23	24.50	0.150	-16.48	49.00	0.002	-53.98	73.50	0.217	-13.27
-7.00	0.140	-17.08	5.25	0.283	-10.96	25.00	0.100	-20.00	49.50	0.012	-38.42	74.00	0.206	-13.72
-6.75	0.173	-15.24	5.50	0.242	-12.32	25.50	0.056	-25.04	50.00	0.027	-31.37	74.50	0.193	-14.29
-6.50	0.209	-13.60	5.75	0.190	-14.42	26.00	0.036	-28.87	50.50	0.041	-27.74	75.00	0.180	-14.89
-6.25	0.239	-12.43	6.00	0.129	-17.79	26.50	0.042	-27.54	51.00	0.053	-25.51	75.50	0.166	-15.60
-6.00	0.257	-11.80	6.25	0.065	-23.74	27.00	0.047	-26.56	51.50	0.059	-24.58	76.00	0.152	-16.36
-5.75	0.260	-11.70	6.50	0.016	-35.92	27.50	0.043	-27.33	52.00	0.061	-24.29	76.50	0.138	-17.20
-5.50	0.248	-12.11	6.75	0.065	-23.74	28.00	0.031	-30.17	52.50	0.057	-24.88	77.00	0.124	-18.13
-5.25	0.219	-13.19	7.00	0.118	-18.56	28.50	0.017	-35.39	53.00	0.049	-26.20	77.50	0.110	-19.17
-5.00	0.176	-15.09	7.25	0.160	-15.92	29.00	0.004	-47.96	53.50	0.039	-28.18	78.00	0.098	-20.18
-4.75	0.121	-18.34	7.50	0.190	-14.42	29.50	0.003	-50.46	54.00	0.031	-30.17	78.50	0.086	-21.31
-4.50	0.058	-24.73	7.75	0.207	-13.68	30.00	0.004	-47.96	54.50	0.033	-29.63	79.00	0.075	-22.50
-4.25	0.023	-32.77	8.00	0.209	-13.60	30.50	0.000	---	55.00	0.043	-27.33	79.50	0.065	-23.74
-4.00	0.089	-21.01	8.25	0.199	-14.02	31.00	0.007	-43.10	55.50	0.056	-25.04	80.00	0.056	-25.04
-3.75	0.157	-16.08	8.50	0.179	-14.94	31.50	0.012	-38.42	56.00	0.065	-23.74	80.50	0.048	-26.38
-3.50	0.217	-13.27	8.75	0.152	-16.36	32.00	0.014	-37.08	56.50	0.071	-22.97	81.00	0.041	-27.74
-3.25	0.265	-11.54	9.00	0.127	-17.92	32.50	0.017	-35.39	57.00	0.071	-22.97	81.50	0.036	-28.87
-3.00	0.297	-10.54	9.25	0.116	-18.71	33.00	0.031	-30.17	57.50	0.065	-23.74	82.00	0.031	-30.17
-2.75	0.312	-10.12	9.50	0.126	-17.99	33.50	0.055	-25.19	58.00	0.054	-25.35	82.50	0.027	-31.37
-2.50	0.308	-10.23	9.75	0.155	-16.19	34.00	0.085	-21.41	58.50	0.039	-28.18	83.00	0.024	-32.40
-2.25	0.287	-10.84	10.00	0.191	-14.38	34.50	0.115	-18.79	59.00	0.020	-33.98	83.50	0.021	-33.56
-2.00	0.255	-11.87	10.50	0.255	-11.87	35.00	0.140	-17.08	59.50	0.005	-46.02	84.00	0.019	-34.42
-1.75	0.227	-12.88	11.00	0.289	-10.78	35.50	0.156	-16.14	60.00	0.024	-32.40	84.50	0.017	-35.39
-1.50	0.226	-12.92	11.50	0.284	-10.93	36.00	0.159	-15.97	60.50	0.044	-27.13	85.00	0.016	-35.92
-1.25	0.273	-11.28	12.00	0.246	-12.18	36.50	0.149	-16.54	61.00	0.062	-24.15	85.50	0.015	-36.48
-1.00	0.359	-8.90	12.50	0.186	-14.61	37.00	0.128	-17.86	61.50	0.076	-22.38	86.00	0.013	-37.72
-0.75	0.466	-6.63	13.00	0.120	-18.42	37.50	0.098	-20.18	62.00	0.086	-21.31	86.50	0.012	-38.42
-0.50	0.580	-4.73	13.50	0.063	-24.01	38.00	0.066	-23.61	62.50	0.091	-20.82	87.00	0.011	-39.17
-0.25	0.692	-3.20	14.00	0.024	-32.40	38.50	0.043	-27.33	63.00	0.091	-20.82	87.50	0.009	-40.92
0.00	0.794	-2.00	14.50	0.007	-43.10	39.00	0.045	-26.94	63.50	0.086	-21.31	88.00	0.008	-41.94
0.25	0.880	-1.11	15.00	0.000	---	39.50	0.058	-24.73	64.00	0.079	-22.05	88.50	0.007	-43.10
0.50	0.945	-0.49	15.50	0.013	-37.72	40.00	0.068	-23.35	64.50	0.070	-23.10	89.00	0.005	-46.02
0.75	0.986	-0.12	16.00	0.025	-32.04	40.50	0.068	-23.35	65.00	0.064	-23.88	89.50	0.003	-50.46
1.00	1.000	0.00	16.50	0.029	-30.75	41.00	0.059	-24.58	65.50	0.066	-23.61	90.00	0.002	-53.98
1.25	0.987	-0.11	17.00	0.021	-33.56	41.50	0.042	-27.54	66.00	0.077	-22.27			
1.50	0.946	-0.48	17.50	0.003	-50.46	42.00	0.021	-33.56	66.50	0.095	-20.45			
1.75	0.882	-1.09	18.00	0.027	-31.37	42.50	0.004	-47.96	67.00	0.117	-18.64			
2.00	0.796	-1.98	18.50	0.053	-25.51	43.00	0.021	-33.56	67.50	0.140	-17.08			

Azimuth Pattern

Type:	ALP-BRe		**Polarization:**	Vertical
Directivity:	1.60 numeric	(2.05 dB)	**Frequency:**	14 (ATSC)
Peak(s) at:			**Location:**	Hickory NC

NOTE: Pattern shape and directivity may vary with channel and mounting configuration.

Relative Field



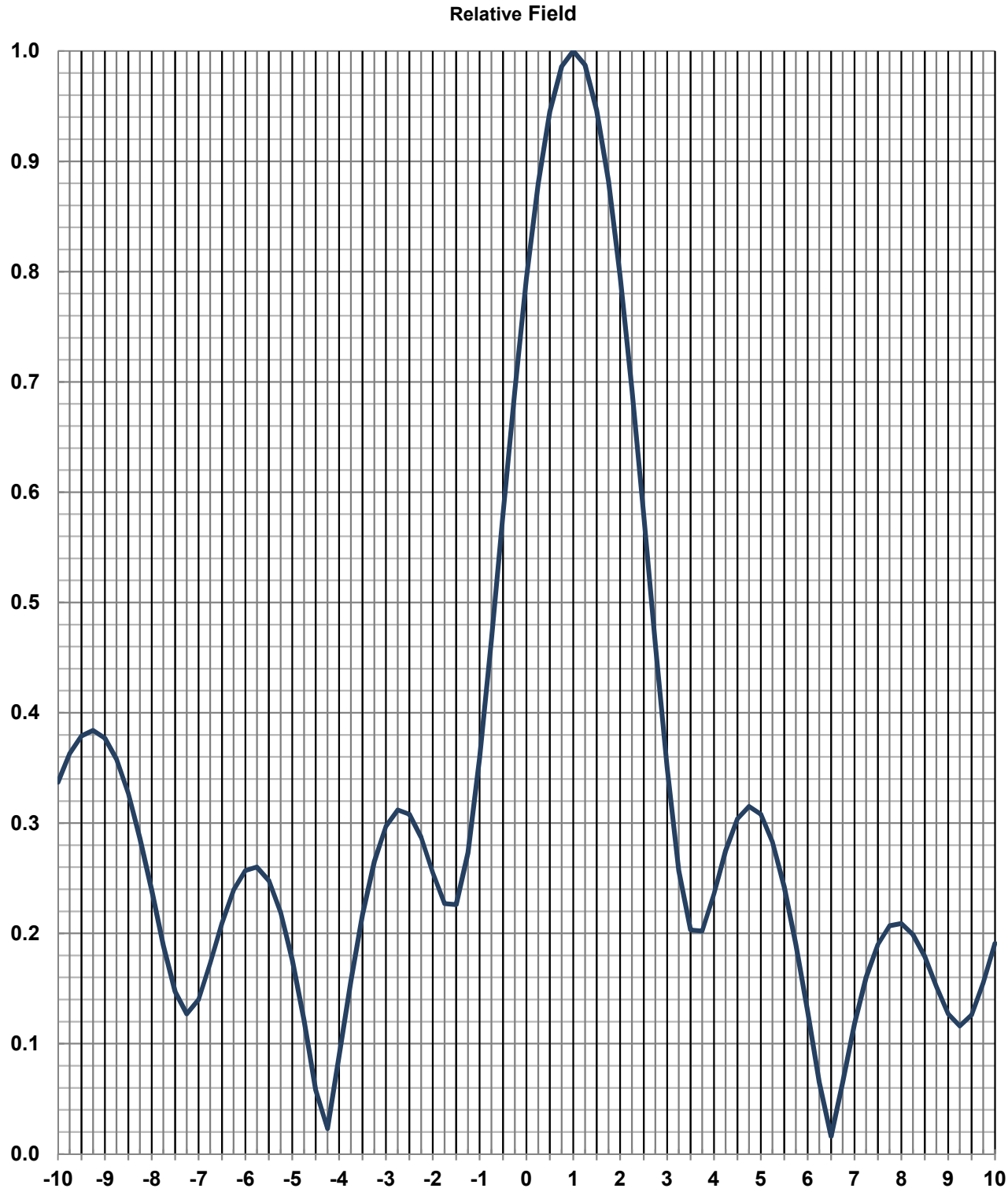
Tabulated Data for Azimuth Pattern

Type: ALP-BRe

Angle	Field	dB
0	0.804	-1.89
2	0.814	-1.79
4	0.823	-1.69
6	0.834	-1.58
8	0.846	-1.45
10	0.857	-1.34
12	0.866	-1.25
14	0.879	-1.12
16	0.889	-1.02
18	0.899	-0.92
20	0.908	-0.84
22	0.917	-0.75
24	0.925	-0.68
26	0.933	-0.60
28	0.937	-0.57
30	0.942	-0.52
32	0.945	-0.49
34	0.948	-0.46
36	0.947	-0.47
38	0.947	-0.47
40	0.945	-0.49
42	0.942	-0.52
44	0.935	-0.58
46	0.928	-0.65
48	0.921	-0.71
50	0.911	-0.81
52	0.897	-0.94
54	0.885	-1.06
56	0.873	-1.18
58	0.857	-1.34
60	0.841	-1.50
62	0.827	-1.65
64	0.810	-1.83
66	0.790	-2.05
68	0.776	-2.20
70	0.758	-2.41
72	0.740	-2.62
74	0.724	-2.81
76	0.708	-3.00
78	0.695	-3.16
80	0.681	-3.34
82	0.672	-3.45
84	0.663	-3.57
86	0.657	-3.65
88	0.652	-3.72
90	0.644	-3.82
92	0.632	-3.99
94	0.620	-4.16
96	0.608	-4.33
98	0.595	-4.50
100	0.583	-4.68
102	0.571	-4.87
104	0.542	-5.32
106	0.504	-5.95
108	0.466	-6.63
110	0.433	-7.27
112	0.406	-7.83
114	0.382	-8.36
116	0.364	-8.78
118	0.347	-9.19
120	0.335	-9.50
122	0.326	-9.74
124	0.319	-9.92
126	0.312	-10.12
128	0.308	-10.23
130	0.307	-10.26
132	0.311	-10.14
134	0.319	-9.92
136	0.333	-9.55
138	0.355	-9.00
140	0.386	-8.27
142	0.419	-7.56
144	0.459	-6.76
146	0.504	-5.95
148	0.549	-5.21
150	0.578	-4.77
152	0.595	-4.51
154	0.612	-4.26
156	0.630	-4.02
158	0.647	-3.78
160	0.664	-3.55
162	0.675	-3.41
164	0.680	-3.35
166	0.686	-3.27
168	0.698	-3.12
170	0.709	-2.99
172	0.721	-2.84
174	0.736	-2.66
176	0.751	-2.49
178	0.766	-2.32
180	0.782	-2.14
182	0.800	-1.94
184	0.817	-1.76
186	0.833	-1.59
188	0.851	-1.40
190	0.869	-1.22
192	0.885	-1.06
194	0.901	-0.91
196	0.917	-0.75
198	0.929	-0.64
200	0.943	-0.51
202	0.955	-0.40
204	0.965	-0.31
206	0.974	-0.23
208	0.982	-0.16
210	0.988	-0.10
212	0.993	-0.06
214	0.997	-0.03
216	0.999	-0.01
218	0.999	-0.01
220	1.000	0.00
222	0.997	-0.03
224	0.994	-0.05
226	0.990	-0.09
228	0.986	-0.12
230	0.979	-0.18
232	0.973	-0.24
234	0.964	-0.32
236	0.956	-0.39
238	0.949	-0.45
240	0.940	-0.54
242	0.929	-0.64
244	0.919	-0.73
246	0.910	-0.82
248	0.899	-0.92
250	0.890	-1.01
252	0.881	-1.10
254	0.871	-1.20
256	0.863	-1.28
258	0.855	-1.36
260	0.849	-1.42
262	0.842	-1.49
264	0.837	-1.55
266	0.833	-1.59
268	0.829	-1.63
270	0.826	-1.66
272	0.824	-1.68
274	0.822	-1.70
276	0.822	-1.70
278	0.822	-1.70
280	0.821	-1.71
282	0.823	-1.69
284	0.823	-1.69
286	0.825	-1.67
288	0.827	-1.65
290	0.828	-1.64
292	0.829	-1.63
294	0.829	-1.63
296	0.829	-1.63
298	0.829	-1.63
300	0.827	-1.65
302	0.826	-1.66
304	0.824	-1.68
306	0.821	-1.71
308	0.818	-1.74
310	0.813	-1.80
312	0.809	-1.84
314	0.805	-1.88
316	0.799	-1.95
318	0.794	-2.00
320	0.788	-2.07
322	0.782	-2.14
324	0.778	-2.18
326	0.772	-2.25
328	0.768	-2.29
330	0.763	-2.35
332	0.759	-2.40
334	0.757	-2.42
336	0.754	-2.45
338	0.752	-2.48
340	0.751	-2.49
342	0.752	-2.48
344	0.755	-2.44
346	0.757	-2.42
348	0.761	-2.37
350	0.765	-2.33
352	0.771	-2.26
354	0.779	-2.17
356	0.786	-2.09
358	0.795	-1.99
360	0.804	-1.89

Elevation Pattern

Type:	ALP16L4		**Polarization:**	Vertical
Directivity:			**Frequency:**	14 (ATSC)
Main Lobe:	16.01 numeric	(12.04 dB)	**Location:**	Hickory NC
Horizontal:	10.09 numeric	(10.04 dB)	**Beam Tilt:**	1.00 degrees



Tabulated Data for Elevation Pattern

Type: ALP16L4

-10 to 10 degrees in 0.25 degree increments.
10 to 90 degrees in 0.50 degree increments.

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
-10.00	0.337	-9.45	2.25	0.693	-3.19	19.00	0.069	-23.22	43.50	0.035	-29.12	68.00	0.163	-15.76
-9.75	0.363	-8.80	2.50	0.579	-4.75	19.50	0.071	-22.97	44.00	0.042	-27.54	68.50	0.183	-14.75
-9.50	0.379	-8.43	2.75	0.462	-6.71	20.00	0.059	-24.58	44.50	0.042	-27.54	69.00	0.201	-13.94
-9.25	0.384	-8.31	3.00	0.350	-9.12	20.50	0.057	-24.88	45.00	0.037	-28.64	69.50	0.216	-13.31
-9.00	0.377	-8.47	3.25	0.257	-11.80	21.00	0.090	-20.92	45.50	0.029	-30.75	70.00	0.228	-12.84
-8.75	0.358	-8.92	3.50	0.203	-13.85	21.50	0.141	-17.02	46.00	0.021	-33.56	70.50	0.236	-12.54
-8.50	0.327	-9.71	3.75	0.202	-13.89	22.00	0.190	-14.42	46.50	0.018	-34.89	71.00	0.240	-12.40
-8.25	0.286	-10.87	4.00	0.236	-12.54	22.50	0.224	-13.00	47.00	0.021	-33.56	71.50	0.241	-12.36
-8.00	0.239	-12.43	4.25	0.275	-11.21	23.00	0.237	-12.51	47.50	0.023	-32.77	72.00	0.239	-12.43
-7.75	0.189	-14.47	4.50	0.304	-10.34	23.50	0.227	-12.88	48.00	0.021	-33.56	72.50	0.234	-12.62
-7.50	0.147	-16.65	4.75	0.315	-10.03	24.00	0.196	-14.15	48.50	0.014	-37.08	73.00	0.227	-12.88
-7.25	0.127	-17.92	5.00	0.308	-10.23	24.50	0.150	-16.48	49.00	0.002	-53.98	73.50	0.217	-13.27
-7.00	0.140	-17.08	5.25	0.283	-10.96	25.00	0.100	-20.00	49.50	0.012	-38.42	74.00	0.206	-13.72
-6.75	0.173	-15.24	5.50	0.242	-12.32	25.50	0.056	-25.04	50.00	0.027	-31.37	74.50	0.193	-14.29
-6.50	0.209	-13.60	5.75	0.190	-14.42	26.00	0.036	-28.87	50.50	0.041	-27.74	75.00	0.180	-14.89
-6.25	0.239	-12.43	6.00	0.129	-17.79	26.50	0.042	-27.54	51.00	0.053	-25.51	75.50	0.166	-15.60
-6.00	0.257	-11.80	6.25	0.065	-23.74	27.00	0.047	-26.56	51.50	0.059	-24.58	76.00	0.152	-16.36
-5.75	0.260	-11.70	6.50	0.016	-35.92	27.50	0.043	-27.33	52.00	0.061	-24.29	76.50	0.138	-17.20
-5.50	0.248	-12.11	6.75	0.065	-23.74	28.00	0.031	-30.17	52.50	0.057	-24.88	77.00	0.124	-18.13
-5.25	0.219	-13.19	7.00	0.118	-18.56	28.50	0.017	-35.39	53.00	0.049	-26.20	77.50	0.110	-19.17
-5.00	0.176	-15.09	7.25	0.160	-15.92	29.00	0.004	-47.96	53.50	0.039	-28.18	78.00	0.098	-20.18
-4.75	0.121	-18.34	7.50	0.190	-14.42	29.50	0.003	-50.46	54.00	0.031	-30.17	78.50	0.086	-21.31
-4.50	0.058	-24.73	7.75	0.207	-13.68	30.00	0.004	-47.96	54.50	0.033	-29.63	79.00	0.075	-22.50
-4.25	0.023	-32.77	8.00	0.209	-13.60	30.50	0.000	---	55.00	0.043	-27.33	79.50	0.065	-23.74
-4.00	0.089	-21.01	8.25	0.199	-14.02	31.00	0.007	-43.10	55.50	0.056	-25.04	80.00	0.056	-25.04
-3.75	0.157	-16.08	8.50	0.179	-14.94	31.50	0.012	-38.42	56.00	0.065	-23.74	80.50	0.048	-26.38
-3.50	0.217	-13.27	8.75	0.152	-16.36	32.00	0.014	-37.08	56.50	0.071	-22.97	81.00	0.041	-27.74
-3.25	0.265	-11.54	9.00	0.127	-17.92	32.50	0.017	-35.39	57.00	0.071	-22.97	81.50	0.036	-28.87
-3.00	0.297	-10.54	9.25	0.116	-18.71	33.00	0.031	-30.17	57.50	0.065	-23.74	82.00	0.031	-30.17
-2.75	0.312	-10.12	9.50	0.126	-17.99	33.50	0.055	-25.19	58.00	0.054	-25.35	82.50	0.027	-31.37
-2.50	0.308	-10.23	9.75	0.155	-16.19	34.00	0.085	-21.41	58.50	0.039	-28.18	83.00	0.024	-32.40
-2.25	0.287	-10.84	10.00	0.191	-14.38	34.50	0.115	-18.79	59.00	0.020	-33.98	83.50	0.021	-33.56
-2.00	0.255	-11.87	10.50	0.255	-11.87	35.00	0.140	-17.08	59.50	0.005	-46.02	84.00	0.019	-34.42
-1.75	0.227	-12.88	11.00	0.289	-10.78	35.50	0.156	-16.14	60.00	0.024	-32.40	84.50	0.017	-35.39
-1.50	0.226	-12.92	11.50	0.284	-10.93	36.00	0.159	-15.97	60.50	0.044	-27.13	85.00	0.016	-35.92
-1.25	0.273	-11.28	12.00	0.246	-12.18	36.50	0.149	-16.54	61.00	0.062	-24.15	85.50	0.015	-36.48
-1.00	0.359	-8.90	12.50	0.186	-14.61	37.00	0.128	-17.86	61.50	0.076	-22.38	86.00	0.013	-37.72
-0.75	0.466	-6.63	13.00	0.120	-18.42	37.50	0.098	-20.18	62.00	0.086	-21.31	86.50	0.012	-38.42
-0.50	0.580	-4.73	13.50	0.063	-24.01	38.00	0.066	-23.61	62.50	0.091	-20.82	87.00	0.011	-39.17
-0.25	0.692	-3.20	14.00	0.024	-32.40	38.50	0.043	-27.33	63.00	0.091	-20.82	87.50	0.009	-40.92
0.00	0.794	-2.00	14.50	0.007	-43.10	39.00	0.045	-26.94	63.50	0.086	-21.31	88.00	0.008	-41.94
0.25	0.880	-1.11	15.00	0.000	---	39.50	0.058	-24.73	64.00	0.079	-22.05	88.50	0.007	-43.10
0.50	0.945	-0.49	15.50	0.013	-37.72	40.00	0.068	-23.35	64.50	0.070	-23.10	89.00	0.005	-46.02
0.75	0.986	-0.12	16.00	0.025	-32.04	40.50	0.068	-23.35	65.00	0.064	-23.88	89.50	0.003	-50.46
1.00	1.000	0.00	16.50	0.029	-30.75	41.00	0.059	-24.58	65.50	0.066	-23.61	90.00	0.002	-53.98
1.25	0.987	-0.11	17.00	0.021	-33.56	41.50	0.042	-27.54	66.00	0.077	-22.27			
1.50	0.946	-0.48	17.50	0.003	-50.46	42.00	0.021	-33.56	66.50	0.095	-20.45			
1.75	0.882	-1.09	18.00	0.027	-31.37	42.50	0.004	-47.96	67.00	0.117	-18.64			
2.00	0.796	-1.98	18.50	0.053	-25.51	43.00	0.021	-33.56	67.50	0.140	-17.08			