

**AL Series UHF Television Antennas
Catalog Azimuth and Elevation Patterns
for Horizontal and Vertical Polarizations**

Last Update 2/10/2019

Azimuth Patterns

[AL-E-H Horizontally Polarized Plotted Azimuth Pattern Data](#)
[AL-E-H Horizontally Polarized Tabulated Azimuth Pattern Data](#)
[AL-E-V Vertically Polarized Plotted Azimuth Pattern Data](#)
[AL-E-V Vertically Polarized Tabulated Azimuth Pattern Data](#)
[AL-M-H Horizontally Polarized Plotted Azimuth Pattern Data](#)
[AL-M-H Horizontally Polarized Tabulated Azimuth Pattern Data](#)
[AL-M-V Vertically Polarized Plotted Azimuth Pattern Data](#)
[AL-M-V Vertically Polarized Tabulated Azimuth Pattern Data](#)
[AL-N-H Horizontally Polarized Plotted Azimuth Pattern Data](#)
[AL-N-H Horizontally Polarized Tabulated Azimuth Pattern Data](#)
[AL-N-V Vertically Polarized Plotted Azimuth Pattern Data](#)
[AL-N-V Vertically Polarized Tabulated Azimuth Pattern Data](#)
[AL-O-H Horizontally Polarized Plotted Azimuth Pattern Data](#)
[AL-O-H Horizontally Polarized Tabulated Azimuth Pattern Data](#)
[AL-O-V Vertically Polarized Plotted Azimuth Pattern Data](#)
[AL-O-V Vertically Polarized Tabulated Azimuth Pattern Data](#)
[AL-OC-H Horizontally Polarized Plotted Azimuth Pattern Data](#)
[AL-OC-H Horizontally Polarized Tabulated Azimuth Pattern Data](#)
[AL-OC-V Vertically Polarized Plotted Azimuth Pattern Data](#)
[AL-OC-V Vertically Polarized Tabulated Azimuth Pattern Data](#)
[AL-W-H Horizontally Polarized Plotted Azimuth Pattern Data](#)
[AL-W-H Horizontally Polarized Tabulated Azimuth Pattern Data](#)
[AL-W-V Vertically Polarized Plotted Azimuth Pattern Data](#)
[AL-W-V Vertically Polarized Tabulated Azimuth Pattern Data](#)

Elevation Patterns

[AL4 Plotted Elevation Pattern Data](#)
[AL4 Plotted 90 Degree Elevation Pattern Data](#)
[AL4 Tabulated Elevation Pattern Data](#)
[AL6 Plotted Elevation Pattern Data](#)
[AL6 Plotted 90 Degree Elevation Pattern Data](#)
[AL6 Tabulated Elevation Pattern Data](#)
[AL8 Plotted Elevation Pattern Data](#)
[AL8 Plotted 90 Degree Elevation Pattern Data](#)
[AL8 Tabulated Elevation Pattern Data](#)

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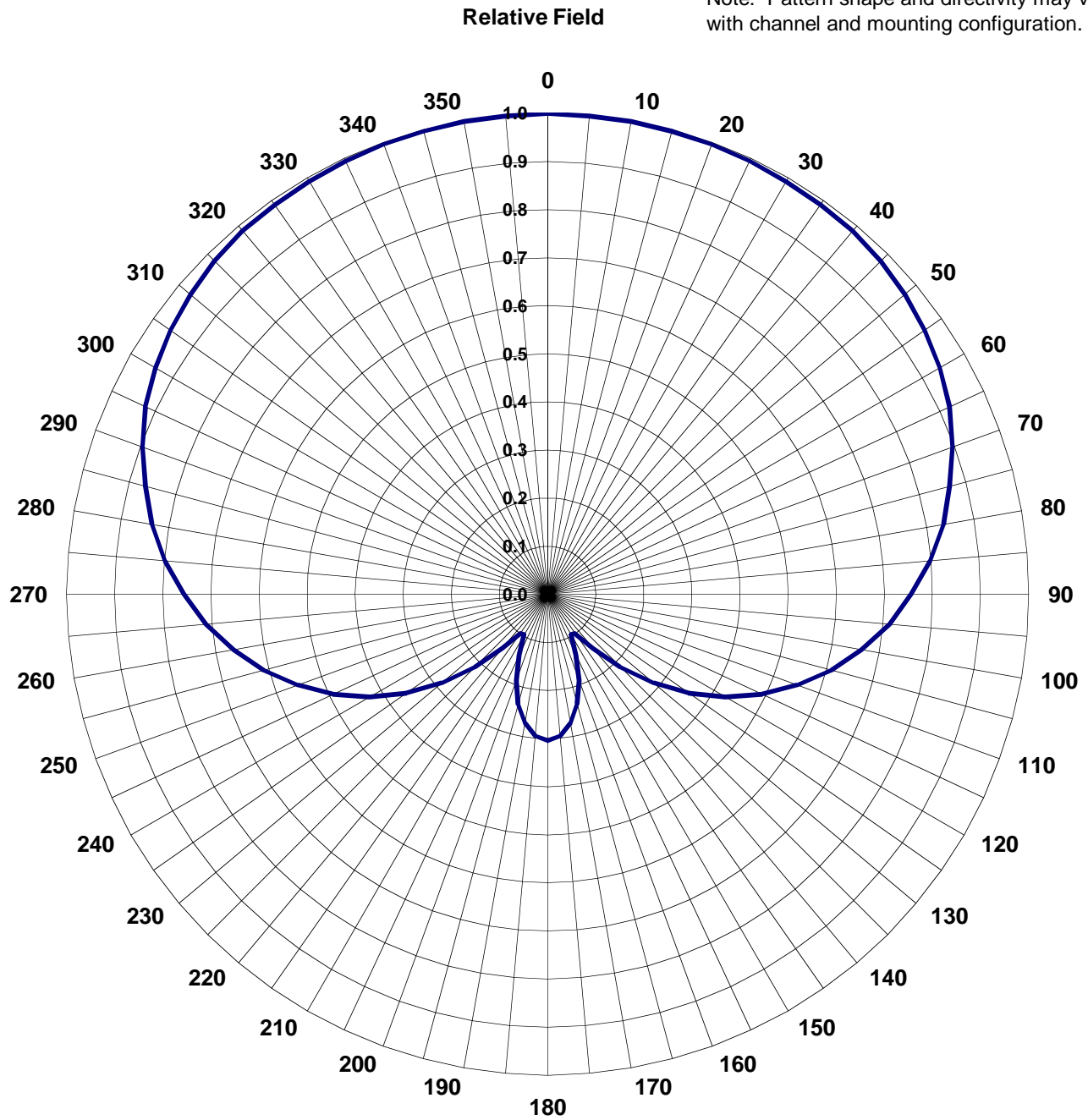


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AZIMUTH PATTERN

TYPE:	AL-E-H	
	Numeric	dB
Directivity:	1.88	(2.74)
Peak(s) at:		
Polarization:	Horizontal	
Channel:		
Location:		

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



TABULATED DATA FOR AZIMUTH PATTERN

TYPE: **AL-E-H**

POLARIZATION: **Horizontal**

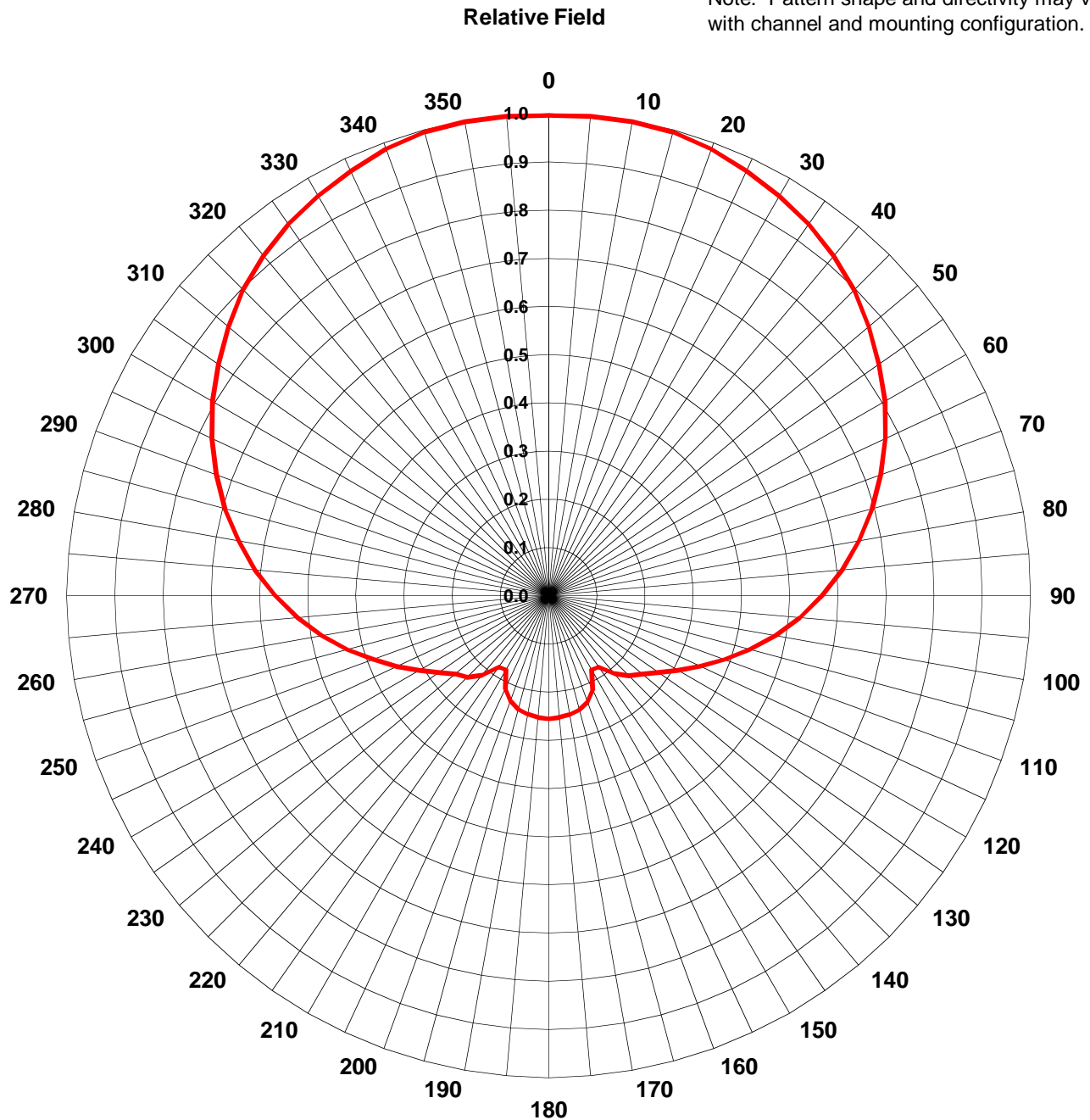
ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	0.999	0.00	92	0.739	-2.56	184	0.298	-10.06	276	0.805	-1.95
2	1.000	-0.01	94	0.721	-2.72	186	0.292	-10.26	278	0.821	-1.81
4	0.999	-0.01	96	0.703	-2.89	188	0.283	-10.52	280	0.836	-1.66
6	0.998	-0.01	98	0.683	-3.07	190	0.272	-10.84	282	0.848	-1.52
8	0.997	-0.01	100	0.662	-3.26	192	0.259	-11.24	284	0.862	-1.39
10	0.999	-0.01	102	0.642	-3.47	194	0.245	-11.67	286	0.874	-1.26
12	0.998	-0.01	104	0.621	-3.69	196	0.228	-12.11	288	0.885	-1.13
14	0.998	-0.01	106	0.599	-3.93	198	0.211	-12.62	290	0.896	-1.01
16	0.996	-0.01	108	0.576	-4.19	200	0.191	-13.07	292	0.907	-0.90
18	0.993	-0.01	110	0.553	-4.48	202	0.170	-13.51	294	0.916	-0.79
20	0.996	-0.01	112	0.530	-4.81	204	0.150	-13.94	296	0.926	-0.69
22	0.995	-0.01	114	0.504	-5.16	206	0.131	-14.24	298	0.934	-0.59
24	0.994	-0.01	116	0.479	-5.55	208	0.112	-14.47	300	0.941	-0.50
26	0.995	-0.01	118	0.454	-5.97	210	0.098	-14.52	302	0.950	-0.43
28	0.993	-0.01	120	0.427	-6.45	212	0.091	-14.47	304	0.954	-0.35
30	0.992	-0.01	122	0.399	-6.96	214	0.094	-14.24	306	0.959	-0.29
32	0.992	-0.01	124	0.371	-7.49	216	0.105	-13.85	308	0.965	-0.23
34	0.990	-0.01	126	0.344	-8.09	218	0.123	-13.39	310	0.970	-0.18
36	0.990	-0.01	128	0.316	-8.73	220	0.147	-12.80	312	0.975	-0.14
38	0.988	-0.02	130	0.286	-9.37	222	0.173	-12.15	314	0.978	-0.10
40	0.987	-0.03	132	0.257	-10.06	224	0.201	-11.47	316	0.981	-0.08
42	0.983	-0.05	134	0.228	-10.78	226	0.228	-10.78	318	0.983	-0.05
44	0.981	-0.08	136	0.201	-11.47	228	0.257	-10.06	320	0.987	-0.03
46	0.978	-0.10	138	0.173	-12.15	230	0.286	-9.37	322	0.988	-0.02
48	0.975	-0.14	140	0.147	-12.80	232	0.316	-8.73	324	0.990	-0.01
50	0.970	-0.18	142	0.123	-13.39	234	0.344	-8.09	326	0.990	-0.01
52	0.965	-0.23	144	0.105	-13.85	236	0.371	-7.49	328	0.992	-0.01
54	0.959	-0.29	146	0.094	-14.24	238	0.399	-6.96	330	0.992	-0.01
56	0.954	-0.35	148	0.091	-14.47	240	0.427	-6.45	332	0.993	-0.01
58	0.950	-0.43	150	0.098	-14.52	242	0.454	-5.97	334	0.995	-0.01
60	0.941	-0.50	152	0.112	-14.47	244	0.479	-5.55	336	0.994	-0.01
62	0.934	-0.59	154	0.131	-14.24	246	0.504	-5.16	338	0.995	-0.01
64	0.926	-0.69	156	0.150	-13.94	248	0.530	-4.81	340	0.996	-0.01
66	0.916	-0.79	158	0.170	-13.51	250	0.553	-4.48	342	0.993	-0.01
68	0.907	-0.90	160	0.191	-13.07	252	0.576	-4.19	344	0.996	-0.01
70	0.896	-1.01	162	0.211	-12.62	254	0.599	-3.93	346	0.998	-0.01
72	0.885	-1.13	164	0.228	-12.11	256	0.621	-3.69	348	0.998	-0.01
74	0.874	-1.26	166	0.245	-11.67	258	0.642	-3.47	350	0.999	-0.01
76	0.862	-1.39	168	0.259	-11.24	260	0.662	-3.26	352	0.997	-0.01
78	0.848	-1.52	170	0.272	-10.84	262	0.683	-3.07	354	0.998	-0.01
80	0.836	-1.66	172	0.283	-10.52	264	0.703	-2.89	356	0.999	-0.01
82	0.821	-1.81	174	0.292	-10.26	266	0.721	-2.72	358	1.000	-0.01
84	0.805	-1.95	176	0.298	-10.06	268	0.739	-2.56	360	0.999	0.00
86	0.791	-2.10	178	0.303	-9.92	270	0.756	-2.41			
88	0.775	-2.25	180	0.305	-9.84	272	0.775	-2.25			
90	0.756	-2.41	182	0.303	-9.92	274	0.791	-2.10			



AZIMUTH PATTERN

TYPE:	AL-E-V	
Directivity:	Numeric	dB
Peak(s) at:	2.33	(3.67)
Polarization:	Vertical	
Channel:		
Location:		

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



TABULATED DATA FOR AZIMUTH PATTERN

TYPE: AL-E-V

POLARIZATION: Vertical

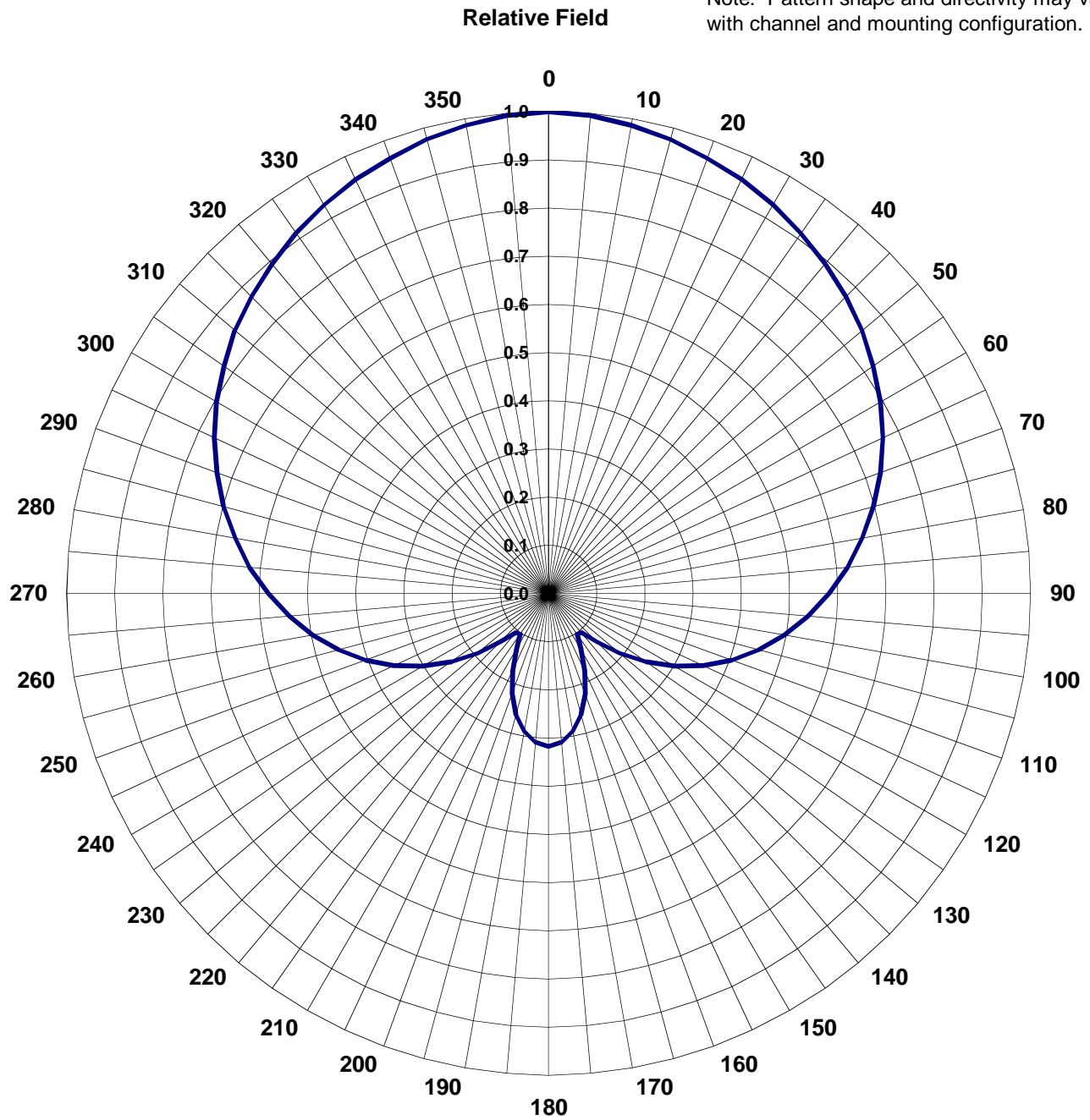
ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	0.996	0.00	92	0.551	-2.56	184	0.254	-10.06	276	0.621	-1.95
2	0.998	-0.01	94	0.533	-2.72	186	0.253	-10.26	278	0.638	-1.81
4	1.000	-0.01	96	0.514	-2.89	188	0.252	-10.52	280	0.654	-1.66
6	0.998	-0.01	98	0.497	-3.07	190	0.250	-10.84	282	0.671	-1.52
8	1.000	-0.01	100	0.478	-3.26	192	0.248	-11.24	284	0.687	-1.39
10	0.998	-0.01	102	0.460	-3.47	194	0.245	-11.67	286	0.704	-1.26
12	0.997	-0.01	104	0.442	-3.69	196	0.243	-12.11	288	0.718	-1.13
14	0.996	-0.01	106	0.423	-3.93	198	0.239	-12.62	290	0.734	-1.01
16	0.992	-0.01	108	0.406	-4.19	200	0.232	-13.07	292	0.750	-0.90
18	0.990	-0.01	110	0.388	-4.48	202	0.224	-13.51	294	0.764	-0.79
20	0.986	-0.01	112	0.371	-4.81	204	0.216	-13.94	296	0.778	-0.69
22	0.983	-0.01	114	0.355	-5.16	206	0.210	-14.24	298	0.792	-0.59
24	0.977	-0.01	116	0.339	-5.55	208	0.205	-14.47	300	0.806	-0.50
26	0.971	-0.01	118	0.324	-5.97	210	0.178	-14.52	302	0.818	-0.43
28	0.965	-0.01	120	0.310	-6.45	212	0.166	-14.47	304	0.831	-0.35
30	0.957	-0.01	122	0.298	-6.96	214	0.172	-14.24	306	0.843	-0.29
32	0.952	-0.01	124	0.284	-7.49	216	0.192	-13.85	308	0.856	-0.23
34	0.946	-0.01	126	0.273	-8.09	218	0.209	-13.39	310	0.867	-0.18
36	0.936	-0.01	128	0.261	-8.73	220	0.216	-12.80	312	0.879	-0.14
38	0.928	-0.02	130	0.253	-9.37	222	0.225	-12.15	314	0.890	-0.10
40	0.920	-0.03	132	0.245	-10.06	224	0.235	-11.47	316	0.900	-0.08
42	0.911	-0.05	134	0.238	-10.78	226	0.238	-10.78	318	0.911	-0.05
44	0.900	-0.08	136	0.230	-11.47	228	0.245	-10.06	320	0.920	-0.03
46	0.890	-0.10	138	0.220	-12.15	230	0.253	-9.37	322	0.928	-0.02
48	0.879	-0.14	140	0.212	-12.80	232	0.261	-8.73	324	0.936	-0.01
50	0.867	-0.18	142	0.207	-13.39	234	0.273	-8.09	326	0.946	-0.01
52	0.856	-0.23	144	0.192	-13.85	236	0.284	-7.49	328	0.952	-0.01
54	0.843	-0.29	146	0.172	-14.24	238	0.298	-6.96	330	0.957	-0.01
56	0.831	-0.35	148	0.166	-14.47	240	0.310	-6.45	332	0.965	-0.01
58	0.818	-0.43	150	0.178	-14.52	242	0.324	-5.97	334	0.971	-0.01
60	0.806	-0.50	152	0.205	-14.47	244	0.339	-5.55	336	0.977	-0.01
62	0.792	-0.59	154	0.213	-14.24	246	0.355	-5.16	338	0.983	-0.01
64	0.778	-0.69	156	0.220	-13.94	248	0.371	-4.81	340	0.986	-0.01
66	0.764	-0.79	158	0.228	-13.51	250	0.388	-4.48	342	0.990	-0.01
68	0.750	-0.90	160	0.236	-13.07	252	0.406	-4.19	344	0.992	-0.01
70	0.734	-1.01	162	0.241	-12.62	254	0.423	-3.93	346	0.996	-0.01
72	0.718	-1.13	164	0.244	-12.11	256	0.442	-3.69	348	0.997	-0.01
74	0.704	-1.26	166	0.247	-11.67	258	0.460	-3.47	350	0.998	-0.01
76	0.687	-1.39	168	0.249	-11.24	260	0.478	-3.26	352	1.000	-0.01
78	0.671	-1.52	170	0.251	-10.84	262	0.497	-3.07	354	0.998	-0.01
80	0.654	-1.66	172	0.253	-10.52	264	0.514	-2.89	356	1.000	-0.01
82	0.638	-1.81	174	0.254	-10.26	266	0.533	-2.72	358	0.998	-0.01
84	0.621	-1.95	176	0.255	-10.06	268	0.551	-2.56	360	0.996	0.00
86	0.605	-2.10	178	0.255	-9.92	270	0.568	-2.41			
88	0.586	-2.25	180	0.255	-9.84	272	0.586	-2.25			
90	0.568	-2.41	182	0.255	-9.92	274	0.605	-2.10			



AZIMUTH PATTERN

TYPE:	AL-M-H	
	Numeric	dB
Directivity:	2.40	(3.80)
Peak(s) at:		
Polarization:	Horizontal	
Channel:		
Location:		

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



TABULATED DATA FOR AZIMUTH PATTERN

TYPE: AL-M-H

POLARIZATION: Horizontal

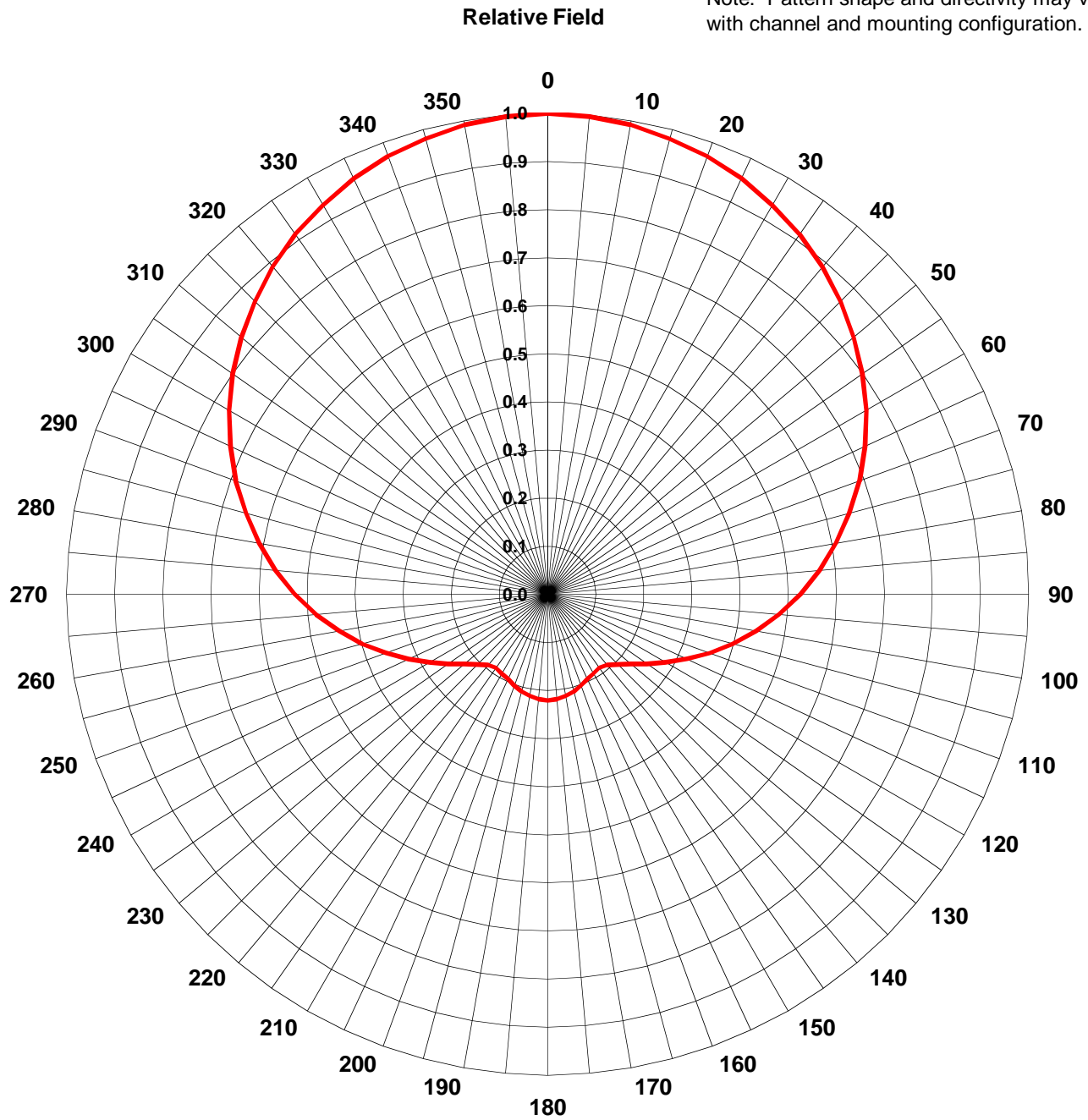
ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	1.000	0.00	92	0.566	-5.35	184	0.313	-10.03	276	0.630	-4.61
2	0.998	-0.02	94	0.549	-5.56	186	0.307	-10.12	278	0.646	-4.44
4	0.996	-0.04	96	0.532	-5.78	188	0.299	-10.23	280	0.660	-4.26
6	0.993	-0.06	98	0.516	-6.00	190	0.290	-10.31	282	0.676	-4.11
8	0.989	-0.09	100	0.496	-6.23	192	0.280	-10.57	284	0.691	-3.96
10	0.987	-0.10	102	0.480	-6.50	194	0.267	-10.84	286	0.705	-3.81
12	0.983	-0.17	104	0.461	-6.78	196	0.254	-11.09	288	0.720	-3.66
14	0.979	-0.23	106	0.443	-7.05	198	0.238	-11.37	290	0.732	-3.52
16	0.975	-0.28	108	0.425	-7.35	200	0.222	-11.67	292	0.746	-3.38
18	0.968	-0.35	110	0.405	-7.66	202	0.204	-11.97	294	0.758	-3.24
20	0.962	-0.41	112	0.385	-8.02	204	0.187	-12.29	296	0.772	-3.09
22	0.958	-0.49	114	0.366	-8.43	206	0.169	-12.65	298	0.784	-2.95
24	0.950	-0.58	116	0.344	-8.83	208	0.150	-13.00	300	0.795	-2.82
26	0.944	-0.67	118	0.324	-9.27	210	0.134	-13.35	302	0.806	-2.67
28	0.940	-0.76	120	0.303	-9.71	212	0.119	-13.43	304	0.817	-2.53
30	0.931	-0.85	122	0.279	-10.14	214	0.107	-13.56	306	0.828	-2.38
32	0.923	-0.96	124	0.257	-10.60	216	0.101	-13.64	308	0.838	-2.25
34	0.915	-1.08	126	0.236	-11.12	218	0.100	-13.76	310	0.849	-2.11
36	0.911	-1.19	128	0.213	-11.63	220	0.106	-13.85	312	0.858	-1.97
38	0.903	-1.31	130	0.192	-12.18	222	0.117	-13.47	314	0.867	-1.83
40	0.893	-1.43	132	0.170	-12.51	224	0.133	-13.15	316	0.875	-1.70
42	0.884	-1.57	134	0.150	-12.80	226	0.150	-12.80	318	0.884	-1.57
44	0.875	-1.70	136	0.133	-13.15	228	0.170	-12.51	320	0.893	-1.43
46	0.867	-1.83	138	0.117	-13.47	230	0.192	-12.18	322	0.903	-1.31
48	0.858	-1.97	140	0.106	-13.85	232	0.213	-11.63	324	0.911	-1.19
50	0.849	-2.11	142	0.100	-13.76	234	0.236	-11.12	326	0.915	-1.08
52	0.838	-2.25	144	0.101	-13.64	236	0.257	-10.60	328	0.923	-0.96
54	0.828	-2.38	146	0.107	-13.56	238	0.279	-10.14	330	0.931	-0.85
56	0.817	-2.53	148	0.119	-13.43	240	0.303	-9.71	332	0.940	-0.76
58	0.806	-2.67	150	0.134	-13.35	242	0.324	-9.27	334	0.944	-0.67
60	0.795	-2.82	152	0.150	-13.00	244	0.344	-8.83	336	0.950	-0.58
62	0.784	-2.95	154	0.169	-12.65	246	0.366	-8.43	338	0.958	-0.49
64	0.772	-3.09	156	0.187	-12.29	248	0.385	-8.02	340	0.962	-0.41
66	0.758	-3.24	158	0.204	-11.97	250	0.405	-7.66	342	0.968	-0.35
68	0.746	-3.38	160	0.222	-11.67	252	0.425	-7.35	344	0.975	-0.28
70	0.732	-3.52	162	0.238	-11.37	254	0.443	-7.05	346	0.979	-0.23
72	0.720	-3.66	164	0.254	-11.09	256	0.461	-6.78	348	0.983	-0.17
74	0.705	-3.81	166	0.267	-10.84	258	0.480	-6.50	350	0.987	-0.10
76	0.691	-3.96	168	0.280	-10.57	260	0.496	-6.23	352	0.989	-0.09
78	0.676	-4.11	170	0.290	-10.31	262	0.516	-6.00	354	0.993	-0.06
80	0.660	-4.26	172	0.299	-10.23	264	0.532	-5.78	356	0.996	-0.04
82	0.646	-4.44	174	0.307	-10.12	266	0.549	-5.56	358	0.998	-0.02
84	0.630	-4.61	176	0.313	-10.03	268	0.566	-5.35	360	1.000	0.00
86	0.614	-4.78	178	0.316	-9.92	270	0.582	-5.15			
88	0.599	-4.96	180	0.317	-9.84	272	0.599	-4.96			
90	0.582	-5.15	182	0.316	-9.92	274	0.614	-4.78			



AZIMUTH PATTERN

TYPE:	AL-M-V	
Directivity:	Numeric	dB
Peak(s) at:	2.52	(4.01)
Polarization:	Vertical	
Channel:		
Location:		

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



TABULATED DATA FOR AZIMUTH PATTERN

TYPE: AL-M-V

POLARIZATION: Vertical

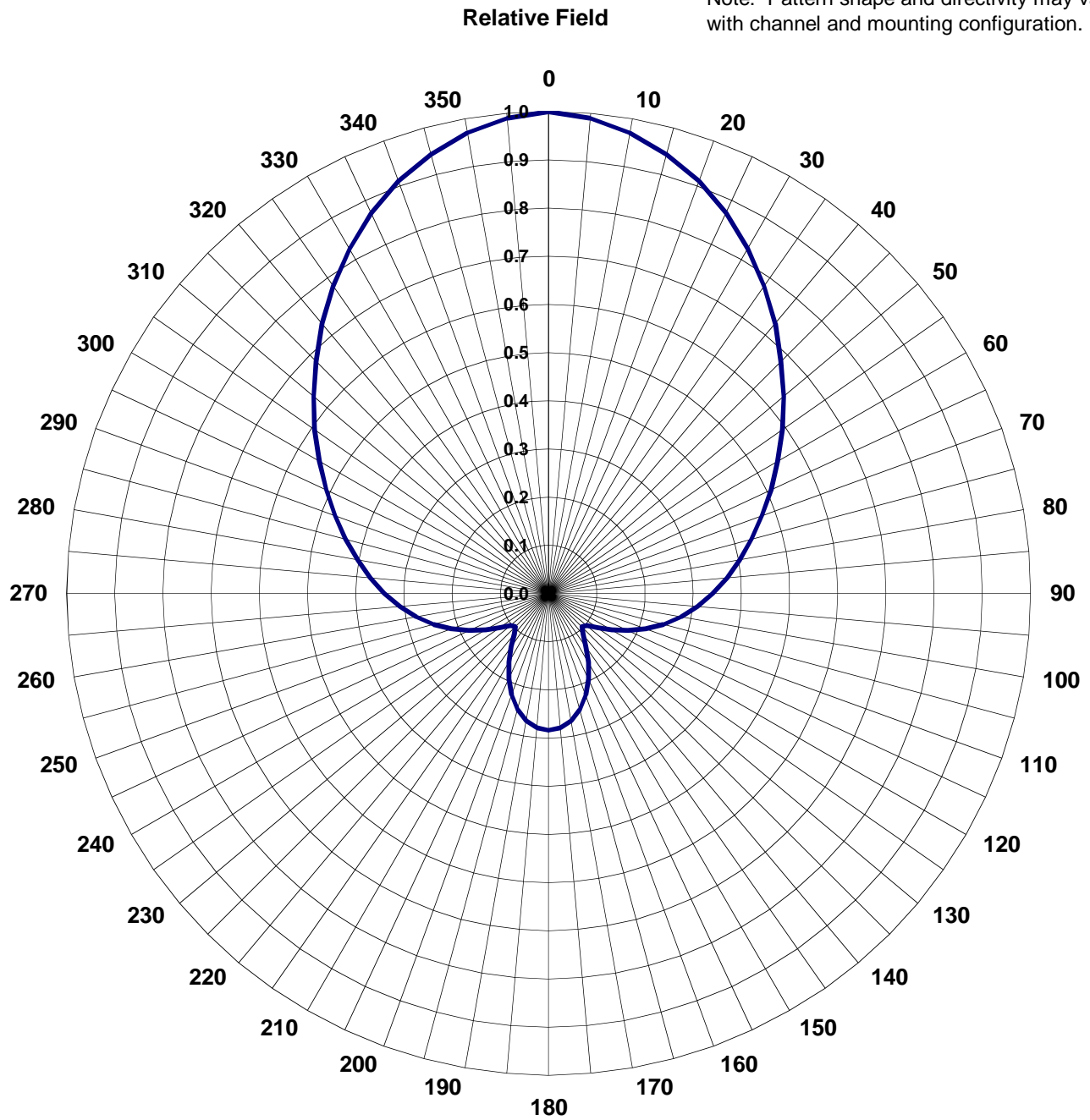
ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	1.000	0.00	92	0.509	-2.56	184	0.220	-10.06	276	0.576	-1.95
2	0.999	-0.01	94	0.492	-2.72	186	0.218	-10.26	278	0.593	-1.81
4	0.998	-0.01	96	0.475	-2.89	188	0.217	-10.52	280	0.609	-1.66
6	0.997	-0.01	98	0.457	-3.07	190	0.215	-10.84	282	0.625	-1.52
8	0.993	-0.01	100	0.440	-3.26	192	0.213	-11.24	284	0.642	-1.39
10	0.991	-0.01	102	0.423	-3.47	194	0.210	-11.67	286	0.659	-1.26
12	0.988	-0.01	104	0.406	-3.69	196	0.207	-12.11	288	0.674	-1.13
14	0.983	-0.01	106	0.391	-3.93	198	0.205	-12.62	290	0.690	-1.01
16	0.980	-0.01	108	0.374	-4.19	200	0.202	-13.07	292	0.705	-0.90
18	0.975	-0.01	110	0.358	-4.48	202	0.199	-13.51	294	0.721	-0.79
20	0.970	-0.01	112	0.342	-4.81	204	0.197	-13.94	296	0.736	-0.69
22	0.963	-0.01	114	0.326	-5.16	206	0.194	-14.24	298	0.747	-0.59
24	0.957	-0.01	116	0.311	-5.55	208	0.192	-14.47	300	0.765	-0.50
26	0.950	-0.01	118	0.297	-5.97	210	0.190	-14.52	302	0.779	-0.43
28	0.943	-0.01	120	0.283	-6.45	212	0.189	-14.47	304	0.791	-0.35
30	0.934	-0.01	122	0.271	-6.96	214	0.189	-14.24	306	0.805	-0.29
32	0.926	-0.01	124	0.258	-7.49	216	0.183	-13.85	308	0.817	-0.23
34	0.918	-0.01	126	0.246	-8.09	218	0.181	-13.39	310	0.831	-0.18
36	0.909	-0.01	128	0.236	-8.73	220	0.192	-12.80	312	0.843	-0.14
38	0.899	-0.02	130	0.226	-9.37	222	0.198	-12.15	314	0.855	-0.10
40	0.889	-0.03	132	0.217	-10.06	224	0.203	-11.47	316	0.866	-0.08
42	0.878	-0.05	134	0.210	-10.78	226	0.210	-10.78	318	0.878	-0.05
44	0.866	-0.08	136	0.203	-11.47	228	0.217	-10.06	320	0.889	-0.03
46	0.855	-0.10	138	0.198	-12.15	230	0.226	-9.37	322	0.899	-0.02
48	0.843	-0.14	140	0.192	-12.80	232	0.236	-8.73	324	0.909	-0.01
50	0.831	-0.18	142	0.181	-13.39	234	0.246	-8.09	326	0.918	-0.01
52	0.817	-0.23	144	0.183	-13.85	236	0.258	-7.49	328	0.926	-0.01
54	0.805	-0.29	146	0.189	-14.24	238	0.271	-6.96	330	0.934	-0.01
56	0.791	-0.35	148	0.189	-14.47	240	0.283	-6.45	332	0.943	-0.01
58	0.779	-0.43	150	0.190	-14.52	242	0.297	-5.97	334	0.950	-0.01
60	0.765	-0.50	152	0.192	-14.47	244	0.311	-5.55	336	0.957	-0.01
62	0.747	-0.59	154	0.194	-14.24	246	0.326	-5.16	338	0.963	-0.01
64	0.736	-0.69	156	0.197	-13.94	248	0.342	-4.81	340	0.970	-0.01
66	0.721	-0.79	158	0.199	-13.51	250	0.358	-4.48	342	0.975	-0.01
68	0.705	-0.90	160	0.202	-13.07	252	0.374	-4.19	344	0.980	-0.01
70	0.690	-1.01	162	0.205	-12.62	254	0.391	-3.93	346	0.983	-0.01
72	0.674	-1.13	164	0.207	-12.11	256	0.406	-3.69	348	0.988	-0.01
74	0.659	-1.26	166	0.210	-11.67	258	0.423	-3.47	350	0.991	-0.01
76	0.642	-1.39	168	0.213	-11.24	260	0.440	-3.26	352	0.993	-0.01
78	0.625	-1.52	170	0.215	-10.84	262	0.457	-3.07	354	0.997	-0.01
80	0.609	-1.66	172	0.217	-10.52	264	0.475	-2.89	356	0.998	-0.01
82	0.593	-1.81	174	0.218	-10.26	266	0.492	-2.72	358	0.999	-0.01
84	0.576	-1.95	176	0.220	-10.06	268	0.509	-2.56	360	1.000	0.00
86	0.560	-2.10	178	0.220	-9.92	270	0.526	-2.41			
88	0.542	-2.25	180	0.221	-9.84	272	0.542	-2.25			
90	0.526	-2.41	182	0.220	-9.92	274	0.560	-2.10			



AZIMUTH PATTERN

TYPE:	AL-N-H	
Directivity:	Numeric	dB
Peak(s) at:	3.54	(5.49)
Polarization:	Horizontal	
Channel:		
Location:		

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



TABULATED DATA FOR AZIMUTH PATTERN

TYPE: **AL-N-H**

POLARIZATION: **Horizontal**

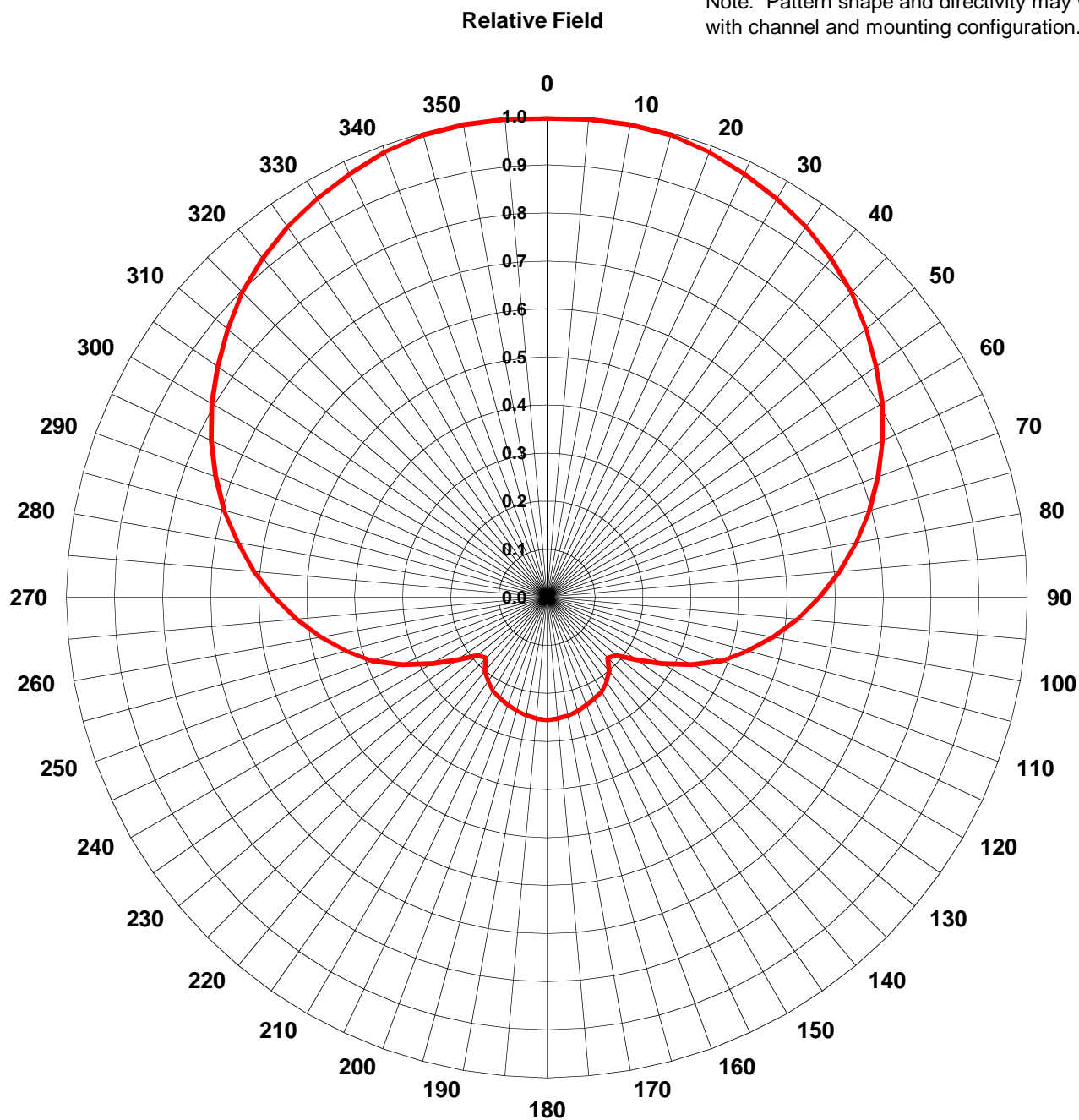
ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	1.000	0.00	92	0.328	-10.29	184	0.281	-12.92	276	0.378	-9.22
2	0.996	-0.03	94	0.314	-10.54	186	0.278	-13.15	278	0.390	-8.95
4	0.993	-0.06	96	0.303	-10.84	188	0.273	-13.47	280	0.403	-8.68
6	0.987	-0.10	98	0.290	-11.09	190	0.268	-13.89	282	0.417	-8.40
8	0.978	-0.17	100	0.279	-11.40	192	0.262	-14.33	284	0.429	-8.11
10	0.971	-0.25	102	0.267	-11.70	194	0.253	-14.85	286	0.443	-7.83
12	0.962	-0.34	104	0.254	-12.04	196	0.245	-15.44	288	0.458	-7.51
14	0.950	-0.45	106	0.241	-12.36	198	0.235	-15.97	290	0.471	-7.23
16	0.937	-0.57	108	0.229	-12.73	200	0.224	-16.65	292	0.486	-6.94
18	0.925	-0.71	110	0.215	-13.11	202	0.213	-17.27	294	0.501	-6.63
20	0.911	-0.86	112	0.203	-13.51	204	0.203	-17.92	296	0.516	-6.32
22	0.895	-1.02	114	0.189	-13.98	206	0.190	-18.56	298	0.532	-6.04
24	0.878	-1.19	116	0.176	-14.47	208	0.178	-19.17	300	0.549	-5.73
26	0.861	-1.38	118	0.163	-14.94	210	0.165	-19.66	302	0.565	-5.43
28	0.845	-1.58	120	0.151	-15.49	212	0.153	-20.09	304	0.583	-5.15
30	0.827	-1.78	122	0.140	-16.03	214	0.141	-20.45	306	0.600	-4.87
32	0.808	-1.99	124	0.129	-16.59	216	0.130	-20.63	308	0.618	-4.57
34	0.789	-2.21	126	0.119	-17.20	218	0.119	-20.63	310	0.636	-4.28
36	0.771	-2.45	128	0.110	-17.79	220	0.111	-20.54	312	0.654	-4.00
38	0.750	-2.69	130	0.104	-18.42	222	0.104	-20.35	314	0.673	-3.73
40	0.731	-2.94	132	0.099	-18.94	224	0.099	-19.91	316	0.693	-3.47
42	0.711	-3.20	134	0.098	-19.49	226	0.098	-19.49	318	0.711	-3.20
44	0.693	-3.47	136	0.099	-19.91	228	0.099	-18.94	320	0.731	-2.94
46	0.673	-3.73	138	0.104	-20.35	230	0.104	-18.42	322	0.750	-2.69
48	0.654	-4.00	140	0.111	-20.54	232	0.110	-17.79	324	0.771	-2.45
50	0.636	-4.28	142	0.119	-20.63	234	0.119	-17.20	326	0.789	-2.21
52	0.618	-4.57	144	0.130	-20.63	236	0.129	-16.59	328	0.808	-1.99
54	0.600	-4.87	146	0.141	-20.45	238	0.140	-16.03	330	0.827	-1.78
56	0.583	-5.15	148	0.153	-20.09	240	0.151	-15.49	332	0.845	-1.58
58	0.565	-5.43	150	0.165	-19.66	242	0.163	-14.94	334	0.861	-1.38
60	0.549	-5.73	152	0.178	-19.17	244	0.176	-14.47	336	0.878	-1.19
62	0.532	-6.04	154	0.190	-18.56	246	0.189	-13.98	338	0.895	-1.02
64	0.516	-6.32	156	0.203	-17.92	248	0.203	-13.51	340	0.911	-0.86
66	0.501	-6.63	158	0.213	-17.27	250	0.215	-13.11	342	0.925	-0.71
68	0.486	-6.94	160	0.224	-16.65	252	0.229	-12.73	344	0.937	-0.57
70	0.471	-7.23	162	0.235	-15.97	254	0.241	-12.36	346	0.950	-0.45
72	0.458	-7.51	164	0.245	-15.44	256	0.254	-12.04	348	0.962	-0.34
74	0.443	-7.83	166	0.253	-14.85	258	0.267	-11.70	350	0.971	-0.25
76	0.429	-8.11	168	0.262	-14.33	260	0.279	-11.40	352	0.978	-0.17
78	0.417	-8.40	170	0.268	-13.89	262	0.290	-11.09	354	0.987	-0.10
80	0.403	-8.68	172	0.273	-13.47	264	0.303	-10.84	356	0.993	-0.06
82	0.390	-8.95	174	0.278	-13.15	266	0.314	-10.54	358	0.996	-0.03
84	0.378	-9.22	176	0.281	-12.92	268	0.328	-10.29	360	1.000	0.00
86	0.366	-9.50	178	0.283	-12.69	270	0.340	-10.01			
88	0.353	-9.76	180	0.284	-12.54	272	0.353	-9.76			
90	0.340	-10.01	182	0.283	-12.69	274	0.366	-9.50			



AZIMUTH PATTERN

TYPE:	AL-N-V	
	Numeric	dB
Directivity:	2.34	(3.69)
Peak(s) at:		
Polarization:	Vertical	
Channel:		
Location:		

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



TABULATED DATA FOR AZIMUTH PATTERN

TYPE: AL-N-V

POLARIZATION: Vertical

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	0.996	0.00	92	0.551	-2.56	184	0.254	-10.06	276	0.621	-1.95
2	0.998	-0.01	94	0.533	-2.72	186	0.253	-10.26	278	0.638	-1.81
4	1.000	-0.01	96	0.514	-2.89	188	0.252	-10.52	280	0.654	-1.66
6	0.998	-0.01	98	0.497	-3.07	190	0.250	-10.84	282	0.671	-1.52
8	1.000	-0.01	100	0.478	-3.26	192	0.248	-11.24	284	0.687	-1.39
10	0.998	-0.01	102	0.460	-3.47	194	0.245	-11.67	286	0.704	-1.26
12	0.997	-0.01	104	0.442	-3.69	196	0.243	-12.11	288	0.718	-1.13
14	0.996	-0.01	106	0.423	-3.93	198	0.240	-12.62	290	0.734	-1.01
16	0.992	-0.01	108	0.406	-4.19	200	0.238	-13.07	292	0.750	-0.90
18	0.990	-0.01	110	0.388	-4.48	202	0.235	-13.51	294	0.764	-0.79
20	0.986	-0.01	112	0.370	-4.81	204	0.233	-13.94	296	0.778	-0.69
22	0.983	-0.01	114	0.346	-5.16	206	0.231	-14.24	298	0.792	-0.59
24	0.977	-0.01	116	0.322	-5.55	208	0.229	-14.47	300	0.806	-0.50
26	0.971	-0.01	118	0.297	-5.97	210	0.225	-14.52	302	0.818	-0.43
28	0.965	-0.01	120	0.276	-6.45	212	0.221	-14.47	304	0.831	-0.35
30	0.957	-0.01	122	0.255	-6.96	214	0.216	-14.24	306	0.843	-0.29
32	0.952	-0.01	124	0.235	-7.49	216	0.210	-13.85	308	0.856	-0.23
34	0.946	-0.01	126	0.217	-8.09	218	0.200	-13.39	310	0.867	-0.18
36	0.936	-0.01	128	0.200	-8.73	220	0.202	-12.80	312	0.879	-0.14
38	0.928	-0.02	130	0.189	-9.37	222	0.189	-12.15	314	0.890	-0.10
40	0.920	-0.03	132	0.181	-10.06	224	0.181	-11.47	316	0.900	-0.08
42	0.911	-0.05	134	0.178	-10.78	226	0.178	-10.78	318	0.911	-0.05
44	0.900	-0.08	136	0.181	-11.47	228	0.181	-10.06	320	0.920	-0.03
46	0.890	-0.10	138	0.189	-12.15	230	0.189	-9.37	322	0.928	-0.02
48	0.879	-0.14	140	0.202	-12.80	232	0.200	-8.73	324	0.936	-0.01
50	0.867	-0.18	142	0.200	-13.39	234	0.217	-8.09	326	0.946	-0.01
52	0.856	-0.23	144	0.213	-13.85	236	0.235	-7.49	328	0.952	-0.01
54	0.843	-0.29	146	0.218	-14.24	238	0.255	-6.96	330	0.957	-0.01
56	0.831	-0.35	148	0.223	-14.47	240	0.276	-6.45	332	0.965	-0.01
58	0.818	-0.43	150	0.227	-14.52	242	0.297	-5.97	334	0.971	-0.01
60	0.806	-0.50	152	0.230	-14.47	244	0.322	-5.55	336	0.977	-0.01
62	0.792	-0.59	154	0.232	-14.24	246	0.346	-5.16	338	0.983	-0.01
64	0.778	-0.69	156	0.234	-13.94	248	0.370	-4.81	340	0.986	-0.01
66	0.764	-0.79	158	0.236	-13.51	250	0.388	-4.48	342	0.990	-0.01
68	0.750	-0.90	160	0.239	-13.07	252	0.406	-4.19	344	0.992	-0.01
70	0.734	-1.01	162	0.242	-12.62	254	0.423	-3.93	346	0.996	-0.01
72	0.718	-1.13	164	0.244	-12.11	256	0.442	-3.69	348	0.997	-0.01
74	0.704	-1.26	166	0.247	-11.67	258	0.460	-3.47	350	0.998	-0.01
76	0.687	-1.39	168	0.249	-11.24	260	0.478	-3.26	352	1.000	-0.01
78	0.671	-1.52	170	0.251	-10.84	262	0.497	-3.07	354	0.998	-0.01
80	0.654	-1.66	172	0.253	-10.52	264	0.514	-2.89	356	1.000	-0.01
82	0.638	-1.81	174	0.254	-10.26	266	0.533	-2.72	358	0.998	-0.01
84	0.621	-1.95	176	0.255	-10.06	268	0.551	-2.56	360	0.996	0.00
86	0.605	-2.10	178	0.255	-9.92	270	0.568	-2.41			
88	0.586	-2.25	180	0.255	-9.84	272	0.586	-2.25			
90	0.568	-2.41	182	0.255	-9.92	274	0.605	-2.10			

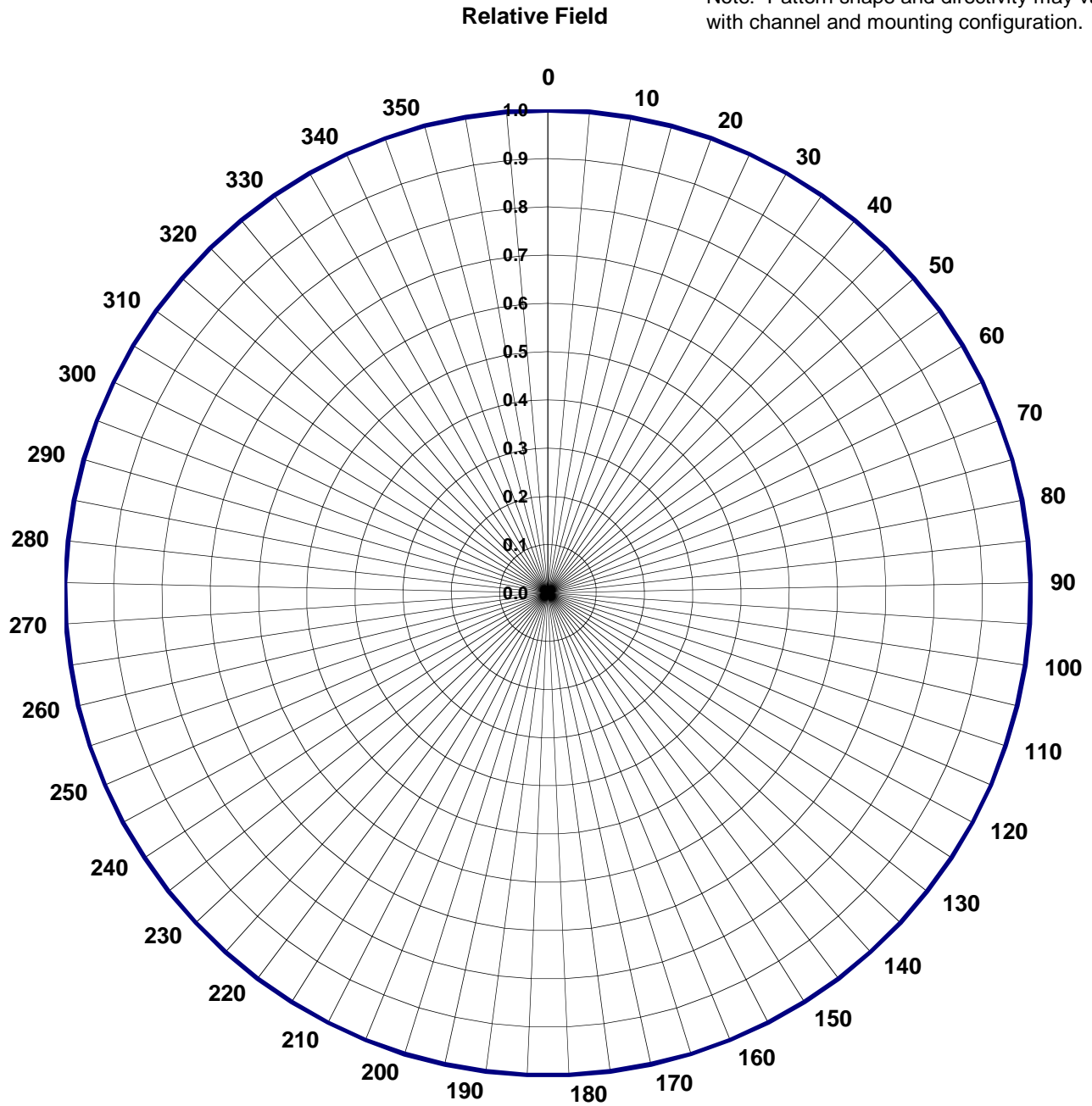


AZIMUTH PATTERN

TYPE:	AL-O-H	
	Numeric	dB
Directivity:	1.00	(0.00)
Peak(s) at:		
Polarization:	Horizontal	
Channel:		
Location:		

Circularity ± 2 dB

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



TABULATED DATA FOR AZIMUTH PATTERN

TYPE: AL-O-H

POLARIZATION: Horizontal

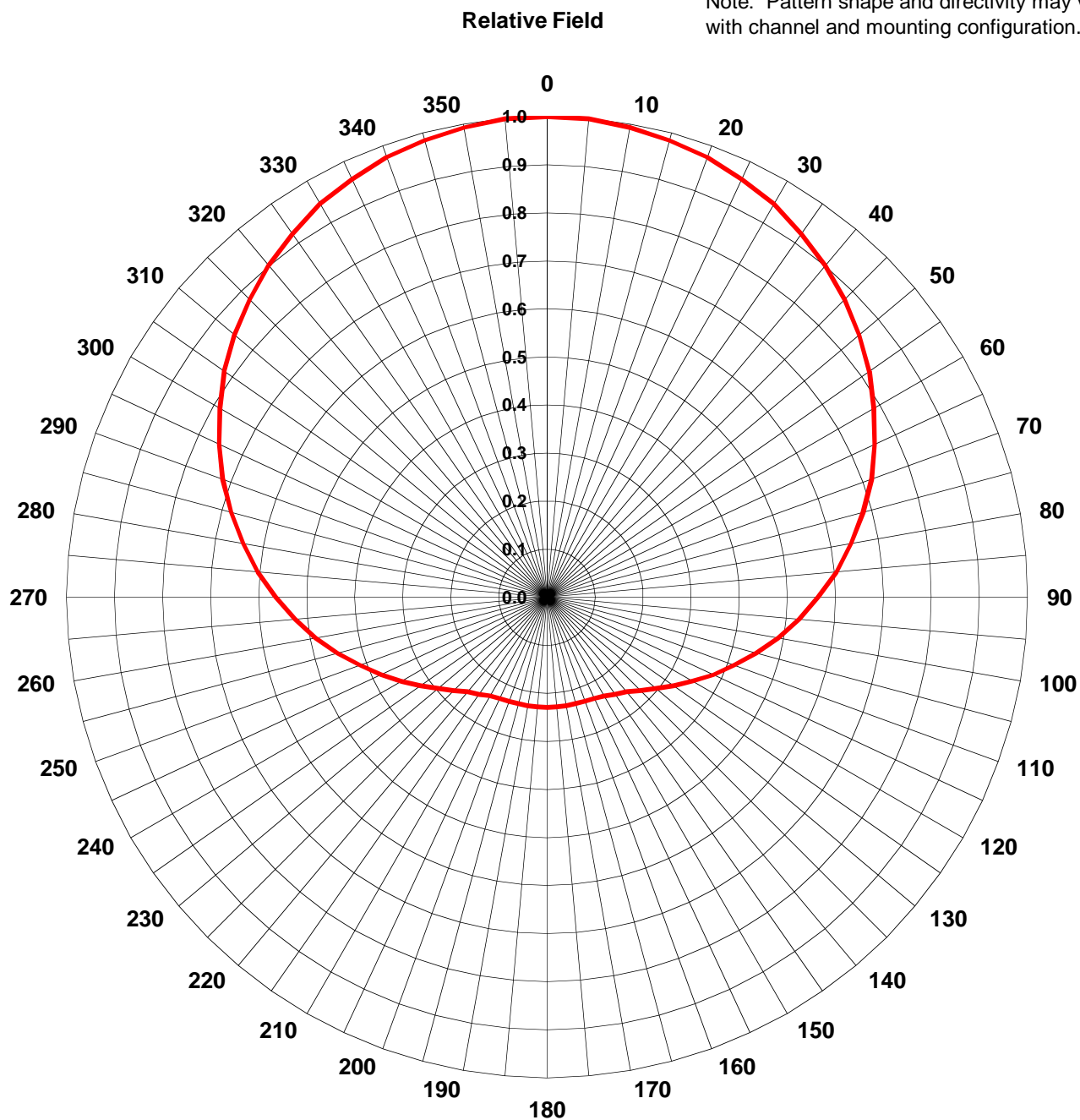
ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	1.000	0.00	92	1.000	0.00	184	1.000	0.00	276	1.000	0.00
2	1.000	0.00	94	1.000	0.00	186	1.000	0.00	278	1.000	0.00
4	1.000	0.00	96	1.000	0.00	188	1.000	0.00	280	1.000	0.00
6	1.000	0.00	98	1.000	0.00	190	1.000	0.00	282	1.000	0.00
8	1.000	0.00	100	1.000	0.00	192	1.000	0.00	284	1.000	0.00
10	1.000	0.00	102	1.000	0.00	194	1.000	0.00	286	1.000	0.00
12	1.000	0.00	104	1.000	0.00	196	1.000	0.00	288	1.000	0.00
14	1.000	0.00	106	1.000	0.00	198	1.000	0.00	290	1.000	0.00
16	1.000	0.00	108	1.000	0.00	200	1.000	0.00	292	1.000	0.00
18	1.000	0.00	110	1.000	0.00	202	1.000	0.00	294	1.000	0.00
20	1.000	0.00	112	1.000	0.00	204	1.000	0.00	296	1.000	0.00
22	1.000	0.00	114	1.000	0.00	206	1.000	0.00	298	1.000	0.00
24	1.000	0.00	116	1.000	0.00	208	1.000	0.00	300	1.000	0.00
26	1.000	0.00	118	1.000	0.00	210	1.000	0.00	302	1.000	0.00
28	1.000	0.00	120	1.000	0.00	212	1.000	0.00	304	1.000	0.00
30	1.000	0.00	122	1.000	0.00	214	1.000	0.00	306	1.000	0.00
32	1.000	0.00	124	1.000	0.00	216	1.000	0.00	308	1.000	0.00
34	1.000	0.00	126	1.000	0.00	218	1.000	0.00	310	1.000	0.00
36	1.000	0.00	128	1.000	0.00	220	1.000	0.00	312	1.000	0.00
38	1.000	0.00	130	1.000	0.00	222	1.000	0.00	314	1.000	0.00
40	1.000	0.00	132	1.000	0.00	224	1.000	0.00	316	1.000	0.00
42	1.000	0.00	134	1.000	0.00	226	1.000	0.00	318	1.000	0.00
44	1.000	0.00	136	1.000	0.00	228	1.000	0.00	320	1.000	0.00
46	1.000	0.00	138	1.000	0.00	230	1.000	0.00	322	1.000	0.00
48	1.000	0.00	140	1.000	0.00	232	1.000	0.00	324	1.000	0.00
50	1.000	0.00	142	1.000	0.00	234	1.000	0.00	326	1.000	0.00
52	1.000	0.00	144	1.000	0.00	236	1.000	0.00	328	1.000	0.00
54	1.000	0.00	146	1.000	0.00	238	1.000	0.00	330	1.000	0.00
56	1.000	0.00	148	1.000	0.00	240	1.000	0.00	332	1.000	0.00
58	1.000	0.00	150	1.000	0.00	242	1.000	0.00	334	1.000	0.00
60	1.000	0.00	152	1.000	0.00	244	1.000	0.00	336	1.000	0.00
62	1.000	0.00	154	1.000	0.00	246	1.000	0.00	338	1.000	0.00
64	1.000	0.00	156	1.000	0.00	248	1.000	0.00	340	1.000	0.00
66	1.000	0.00	158	1.000	0.00	250	1.000	0.00	342	1.000	0.00
68	1.000	0.00	160	1.000	0.00	252	1.000	0.00	344	1.000	0.00
70	1.000	0.00	162	1.000	0.00	254	1.000	0.00	346	1.000	0.00
72	1.000	0.00	164	1.000	0.00	256	1.000	0.00	348	1.000	0.00
74	1.000	0.00	166	1.000	0.00	258	1.000	0.00	350	1.000	0.00
76	1.000	0.00	168	1.000	0.00	260	1.000	0.00	352	1.000	0.00
78	1.000	0.00	170	1.000	0.00	262	1.000	0.00	354	1.000	0.00
80	1.000	0.00	172	1.000	0.00	264	1.000	0.00	356	1.000	0.00
82	1.000	0.00	174	1.000	0.00	266	1.000	0.00	358	1.000	0.00
84	1.000	0.00	176	1.000	0.00	268	1.000	0.00	360	1.000	0.00
86	1.000	0.00	178	1.000	0.00	270	1.000	0.00			
88	1.000	0.00	180	1.000	0.00	272	1.000	0.00			
90	1.000	0.00	182	1.000	0.00	274	1.000	0.00			



AZIMUTH PATTERN

TYPE:	AL-O-V	
Directivity:	Numeric	dB
Peak(s) at:	2.36	(3.73)
Polarization:	Vertical	
Channel:		
Location:		

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



TABULATED DATA FOR AZIMUTH PATTERN

TYPE: AL-O-V

POLARIZATION: Vertical

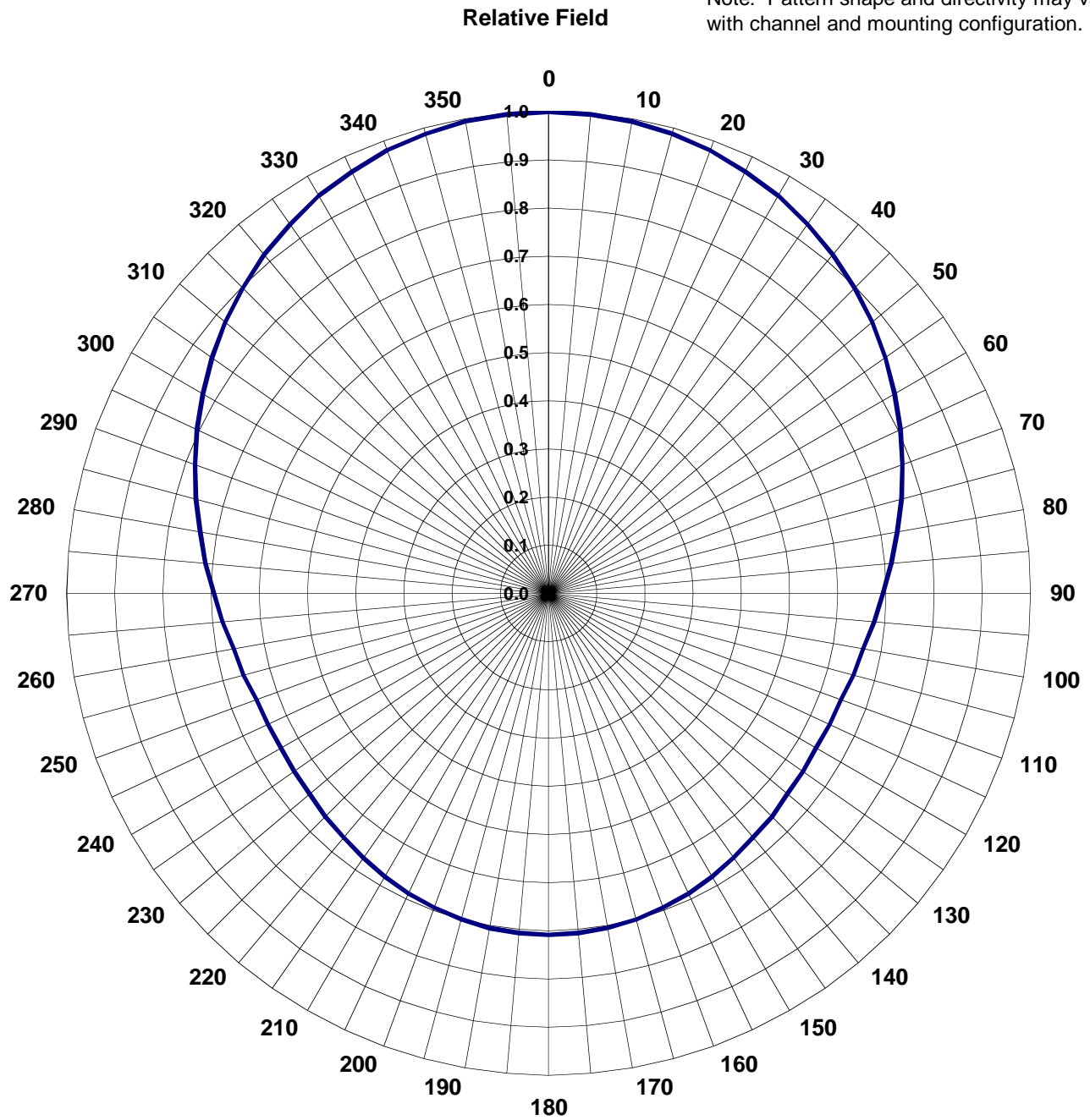
ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	1.000	0.00	92	0.550	-2.56	184	0.229	-10.06	276	0.612	-1.95
2	1.000	-0.01	94	0.535	-2.72	186	0.229	-10.26	278	0.628	-1.81
4	0.999	-0.01	96	0.518	-2.89	188	0.229	-10.52	280	0.643	-1.66
6	0.999	-0.01	98	0.504	-3.07	190	0.229	-10.84	282	0.658	-1.52
8	0.996	-0.01	100	0.488	-3.26	192	0.229	-11.24	284	0.674	-1.39
10	0.993	-0.01	102	0.473	-3.47	194	0.229	-11.67	286	0.690	-1.26
12	0.991	-0.01	104	0.458	-3.69	196	0.229	-12.11	288	0.704	-1.13
14	0.988	-0.01	106	0.442	-3.93	198	0.229	-12.62	290	0.719	-1.01
16	0.983	-0.01	108	0.428	-4.19	200	0.230	-13.07	292	0.734	-0.90
18	0.979	-0.01	110	0.414	-4.48	202	0.230	-13.51	294	0.746	-0.79
20	0.975	-0.01	112	0.400	-4.81	204	0.232	-13.94	296	0.760	-0.69
22	0.968	-0.01	114	0.387	-5.16	206	0.233	-14.24	298	0.774	-0.59
24	0.963	-0.01	116	0.374	-5.55	208	0.235	-14.47	300	0.786	-0.50
26	0.957	-0.01	118	0.361	-5.97	210	0.237	-14.52	302	0.800	-0.43
28	0.951	-0.01	120	0.349	-6.45	212	0.240	-14.47	304	0.813	-0.35
30	0.945	-0.01	122	0.337	-6.96	214	0.243	-14.24	306	0.825	-0.29
32	0.935	-0.01	124	0.326	-7.49	216	0.248	-13.85	308	0.838	-0.23
34	0.926	-0.01	126	0.315	-8.09	218	0.252	-13.39	310	0.849	-0.18
36	0.919	-0.01	128	0.304	-8.73	220	0.257	-12.80	312	0.860	-0.14
38	0.911	-0.02	130	0.295	-9.37	222	0.264	-12.15	314	0.872	-0.10
40	0.901	-0.03	132	0.286	-10.06	224	0.271	-11.47	316	0.881	-0.08
42	0.891	-0.05	134	0.278	-10.78	226	0.278	-10.78	318	0.891	-0.05
44	0.881	-0.08	136	0.271	-11.47	228	0.286	-10.06	320	0.901	-0.03
46	0.872	-0.10	138	0.264	-12.15	230	0.295	-9.37	322	0.911	-0.02
48	0.860	-0.14	140	0.257	-12.80	232	0.304	-8.73	324	0.919	-0.01
50	0.849	-0.18	142	0.252	-13.39	234	0.315	-8.09	326	0.926	-0.01
52	0.838	-0.23	144	0.248	-13.85	236	0.326	-7.49	328	0.935	-0.01
54	0.825	-0.29	146	0.243	-14.24	238	0.337	-6.96	330	0.945	-0.01
56	0.813	-0.35	148	0.240	-14.47	240	0.349	-6.45	332	0.951	-0.01
58	0.800	-0.43	150	0.237	-14.52	242	0.361	-5.97	334	0.957	-0.01
60	0.786	-0.50	152	0.235	-14.47	244	0.374	-5.55	336	0.963	-0.01
62	0.774	-0.59	154	0.233	-14.24	246	0.387	-5.16	338	0.968	-0.01
64	0.760	-0.69	156	0.232	-13.94	248	0.400	-4.81	340	0.975	-0.01
66	0.746	-0.79	158	0.230	-13.51	250	0.414	-4.48	342	0.979	-0.01
68	0.734	-0.90	160	0.230	-13.07	252	0.428	-4.19	344	0.983	-0.01
70	0.719	-1.01	162	0.229	-12.62	254	0.442	-3.93	346	0.988	-0.01
72	0.704	-1.13	164	0.229	-12.11	256	0.458	-3.69	348	0.991	-0.01
74	0.690	-1.26	166	0.229	-11.67	258	0.473	-3.47	350	0.993	-0.01
76	0.674	-1.39	168	0.229	-11.24	260	0.488	-3.26	352	0.996	-0.01
78	0.658	-1.52	170	0.229	-10.84	262	0.504	-3.07	354	0.999	-0.01
80	0.643	-1.66	172	0.229	-10.52	264	0.518	-2.89	356	0.999	-0.01
82	0.628	-1.81	174	0.229	-10.26	266	0.535	-2.72	358	1.000	-0.01
84	0.612	-1.95	176	0.229	-10.06	268	0.550	-2.56	360	1.000	0.00
86	0.596	-2.10	178	0.229	-9.92	270	0.565	-2.41			
88	0.581	-2.25	180	0.229	-9.84	272	0.581	-2.25			
90	0.565	-2.41	182	0.229	-9.92	274	0.596	-2.10			



AZIMUTH PATTERN

TYPE:	AL-OC-H	
	Numeric	dB
Directivity:	1.62	(2.10)
Peak(s) at:		
Polarization:	Horizontal	
Channel:		
Location:		

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



TABULATED DATA FOR AZIMUTH PATTERN

TYPE: AL-OC-H

POLARIZATION: Horizontal

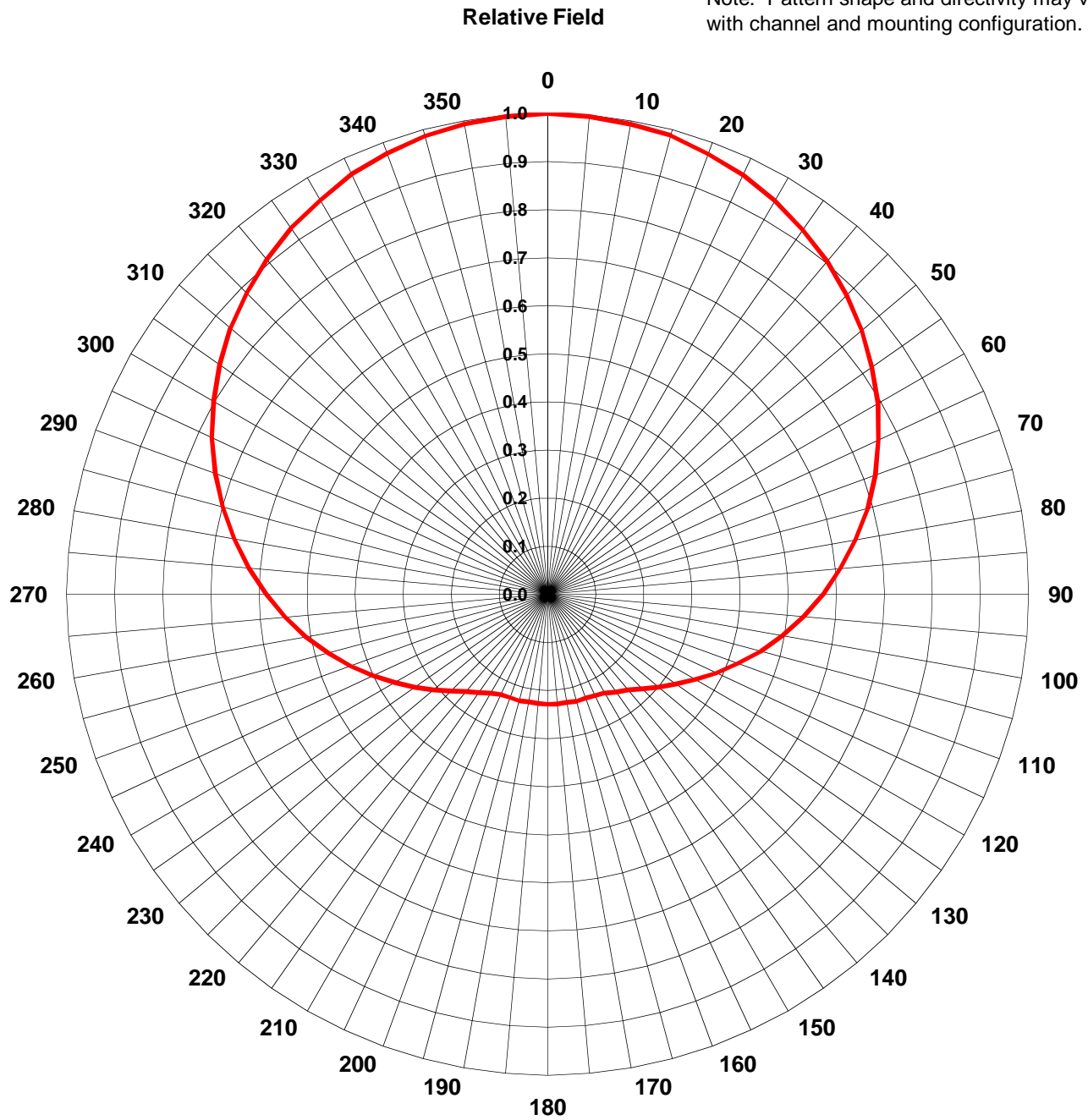
ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	1.000	0.00	92	0.688	-3.61	184	0.707	-3.41	276	0.718	-3.16
2	0.999	0.00	94	0.682	-3.72	186	0.706	-3.43	278	0.726	-3.04
4	0.998	-0.01	96	0.675	-3.82	188	0.706	-3.44	280	0.734	-2.91
6	0.997	-0.02	98	0.669	-3.90	190	0.705	-3.45	282	0.743	-2.79
8	0.996	-0.03	100	0.663	-4.00	192	0.703	-3.48	284	0.753	-2.67
10	0.995	-0.05	102	0.660	-4.07	194	0.701	-3.50	286	0.762	-2.55
12	0.992	-0.07	104	0.656	-4.14	196	0.698	-3.54	288	0.771	-2.43
14	0.988	-0.10	106	0.653	-4.21	198	0.696	-3.58	290	0.781	-2.30
16	0.985	-0.12	108	0.649	-4.26	200	0.694	-3.62	292	0.790	-2.18
18	0.982	-0.16	110	0.645	-4.31	202	0.691	-3.66	294	0.800	-2.07
20	0.979	-0.19	112	0.644	-4.35	204	0.688	-3.70	296	0.810	-1.95
22	0.974	-0.23	114	0.643	-4.38	206	0.685	-3.76	298	0.820	-1.83
24	0.969	-0.27	116	0.643	-4.39	208	0.682	-3.80	300	0.829	-1.72
26	0.963	-0.33	118	0.642	-4.41	210	0.679	-3.85	302	0.839	-1.61
28	0.958	-0.38	120	0.641	-4.41	212	0.675	-3.90	304	0.848	-1.50
30	0.953	-0.44	122	0.642	-4.41	214	0.672	-3.96	306	0.858	-1.40
32	0.946	-0.49	124	0.643	-4.39	216	0.668	-4.01	308	0.867	-1.30
34	0.939	-0.56	126	0.645	-4.38	218	0.665	-4.05	310	0.876	-1.20
36	0.932	-0.62	128	0.646	-4.35	220	0.661	-4.11	312	0.885	-1.11
38	0.925	-0.70	130	0.647	-4.32	222	0.659	-4.17	314	0.893	-1.02
40	0.918	-0.77	132	0.650	-4.29	224	0.656	-4.21	316	0.901	-0.93
42	0.910	-0.85	134	0.653	-4.25	226	0.653	-4.25	318	0.910	-0.85
44	0.901	-0.93	136	0.656	-4.21	228	0.650	-4.29	320	0.918	-0.77
46	0.893	-1.02	138	0.659	-4.17	230	0.647	-4.32	322	0.925	-0.70
48	0.885	-1.11	140	0.661	-4.11	232	0.646	-4.35	324	0.932	-0.62
50	0.876	-1.20	142	0.665	-4.05	234	0.645	-4.38	326	0.939	-0.56
52	0.867	-1.30	144	0.668	-4.01	236	0.643	-4.39	328	0.946	-0.49
54	0.858	-1.40	146	0.672	-3.96	238	0.642	-4.41	330	0.953	-0.44
56	0.848	-1.50	148	0.675	-3.90	240	0.641	-4.41	332	0.958	-0.38
58	0.839	-1.61	150	0.679	-3.85	242	0.642	-4.41	334	0.963	-0.33
60	0.829	-1.72	152	0.682	-3.80	244	0.643	-4.39	336	0.969	-0.27
62	0.820	-1.83	154	0.685	-3.76	246	0.643	-4.38	338	0.974	-0.23
64	0.810	-1.95	156	0.688	-3.70	248	0.644	-4.35	340	0.979	-0.19
66	0.800	-2.07	158	0.691	-3.66	250	0.645	-4.31	342	0.982	-0.16
68	0.790	-2.18	160	0.694	-3.62	252	0.649	-4.26	344	0.985	-0.12
70	0.781	-2.30	162	0.696	-3.58	254	0.653	-4.21	346	0.988	-0.10
72	0.771	-2.43	164	0.698	-3.54	256	0.656	-4.14	348	0.992	-0.07
74	0.762	-2.55	166	0.701	-3.50	258	0.660	-4.07	350	0.995	-0.05
76	0.753	-2.67	168	0.703	-3.48	260	0.663	-4.00	352	0.996	-0.03
78	0.743	-2.79	170	0.705	-3.45	262	0.669	-3.90	354	0.997	-0.02
80	0.734	-2.91	172	0.706	-3.44	264	0.675	-3.82	356	0.998	-0.01
82	0.726	-3.04	174	0.706	-3.43	266	0.682	-3.72	358	0.999	0.00
84	0.718	-3.16	176	0.707	-3.41	268	0.688	-3.61	360	1.000	0.00
86	0.710	-3.27	178	0.708	-3.40	270	0.694	-3.50			
88	0.702	-3.39	180	0.709	-3.40	272	0.702	-3.39			
90	0.694	-3.50	182	0.708	-3.40	274	0.710	-3.27			



AZIMUTH PATTERN

TYPE:	AL-OC-V	
	Numeric	dB
Directivity:	2.32	(3.65)
Peak(s) at:		
Polarization:	Vertical	
Channel:		
Location:		

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



TABULATED DATA FOR AZIMUTH PATTERN

TYPE: AL-OC-V

POLARIZATION: Vertical

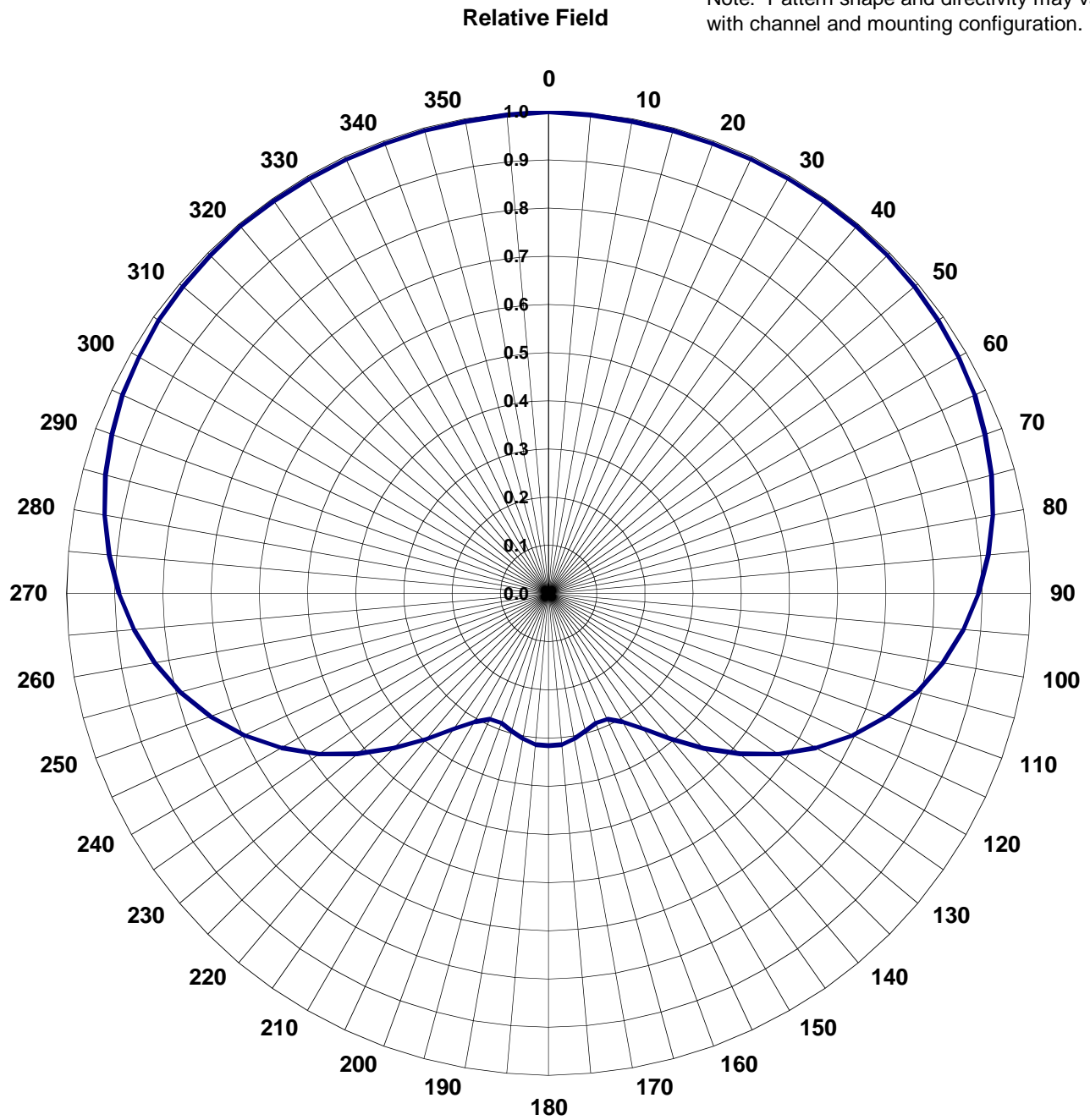
ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	1.000	0.00	92	0.557	-2.56	184	0.228	-10.06	276	0.632	-1.95
2	0.999	-0.01	94	0.542	-2.72	186	0.227	-10.26	278	0.646	-1.81
4	0.998	-0.01	96	0.526	-2.89	188	0.226	-10.52	280	0.662	-1.66
6	0.997	-0.01	98	0.512	-3.07	190	0.227	-10.84	282	0.676	-1.52
8	0.996	-0.01	100	0.495	-3.26	192	0.227	-11.24	284	0.692	-1.39
10	0.993	-0.01	102	0.481	-3.47	194	0.228	-11.67	286	0.707	-1.26
12	0.992	-0.01	104	0.466	-3.69	196	0.227	-12.11	288	0.721	-1.13
14	0.987	-0.01	106	0.450	-3.93	198	0.227	-12.62	290	0.735	-1.01
16	0.983	-0.01	108	0.435	-4.19	200	0.228	-13.07	292	0.750	-0.90
18	0.981	-0.01	110	0.421	-4.48	202	0.229	-13.51	294	0.763	-0.79
20	0.974	-0.01	112	0.407	-4.81	204	0.230	-13.94	296	0.776	-0.69
22	0.970	-0.01	114	0.392	-5.16	206	0.233	-14.24	298	0.790	-0.59
24	0.965	-0.01	116	0.381	-5.55	208	0.236	-14.47	300	0.802	-0.50
26	0.959	-0.01	118	0.367	-5.97	210	0.238	-14.52	302	0.814	-0.43
28	0.952	-0.01	120	0.355	-6.45	212	0.243	-14.47	304	0.825	-0.35
30	0.945	-0.01	122	0.343	-6.96	214	0.247	-14.24	306	0.838	-0.29
32	0.937	-0.01	124	0.331	-7.49	216	0.252	-13.85	308	0.848	-0.23
34	0.930	-0.01	126	0.321	-8.09	218	0.258	-13.39	310	0.860	-0.18
36	0.922	-0.01	128	0.309	-8.73	220	0.264	-12.80	312	0.870	-0.14
38	0.914	-0.02	130	0.300	-9.37	222	0.272	-12.15	314	0.880	-0.10
40	0.905	-0.03	132	0.291	-10.06	224	0.280	-11.47	316	0.891	-0.08
42	0.895	-0.05	134	0.282	-10.78	226	0.288	-10.78	318	0.899	-0.05
44	0.885	-0.08	136	0.274	-11.47	228	0.298	-10.06	320	0.908	-0.03
46	0.875	-0.10	138	0.267	-12.15	230	0.309	-9.37	322	0.918	-0.02
48	0.864	-0.14	140	0.260	-12.80	232	0.320	-8.73	324	0.925	-0.01
50	0.853	-0.18	142	0.255	-13.39	234	0.332	-8.09	326	0.932	-0.01
52	0.842	-0.23	144	0.250	-13.85	236	0.343	-7.49	328	0.940	-0.01
54	0.830	-0.29	146	0.246	-14.24	238	0.355	-6.96	330	0.946	-0.01
56	0.819	-0.35	148	0.242	-14.47	240	0.367	-6.45	332	0.953	-0.01
58	0.805	-0.43	150	0.238	-14.52	242	0.381	-5.97	334	0.959	-0.01
60	0.793	-0.50	152	0.236	-14.47	244	0.395	-5.55	336	0.965	-0.01
62	0.781	-0.59	154	0.234	-14.24	246	0.408	-5.16	338	0.971	-0.01
64	0.766	-0.69	156	0.233	-13.94	248	0.422	-4.81	340	0.975	-0.01
66	0.752	-0.79	158	0.231	-13.51	250	0.436	-4.48	342	0.978	-0.01
68	0.740	-0.90	160	0.230	-13.07	252	0.450	-4.19	344	0.984	-0.01
70	0.725	-1.01	162	0.230	-12.62	254	0.464	-3.93	346	0.986	-0.01
72	0.711	-1.13	164	0.229	-12.11	256	0.481	-3.69	348	0.991	-0.01
74	0.695	-1.26	166	0.229	-11.67	258	0.496	-3.47	350	0.993	-0.01
76	0.680	-1.39	168	0.229	-11.24	260	0.511	-3.26	352	0.995	-0.01
78	0.666	-1.52	170	0.228	-10.84	262	0.526	-3.07	354	0.997	-0.01
80	0.650	-1.66	172	0.229	-10.52	264	0.541	-2.89	356	0.997	-0.01
82	0.635	-1.81	174	0.229	-10.26	266	0.556	-2.72	358	0.999	-0.01
84	0.619	-1.95	176	0.228	-10.06	268	0.570	-2.56	360	1.000	0.00
86	0.604	-2.10	178	0.229	-9.92	270	0.585	-2.41			
88	0.588	-2.25	180	0.229	-9.84	272	0.602	-2.25			
90	0.573	-2.41	182	0.228	-9.92	274	0.617	-2.10			



AZIMUTH PATTERN

TYPE:	AL-W-H	
Directivity:	Numeric	dB
Peak(s) at:	1.58	(1.99)
Polarization:	Horizontal	
Channel:		
Location:		

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



TABULATED DATA FOR AZIMUTH PATTERN

TYPE: AL-W-H

POLARIZATION: Horizontal

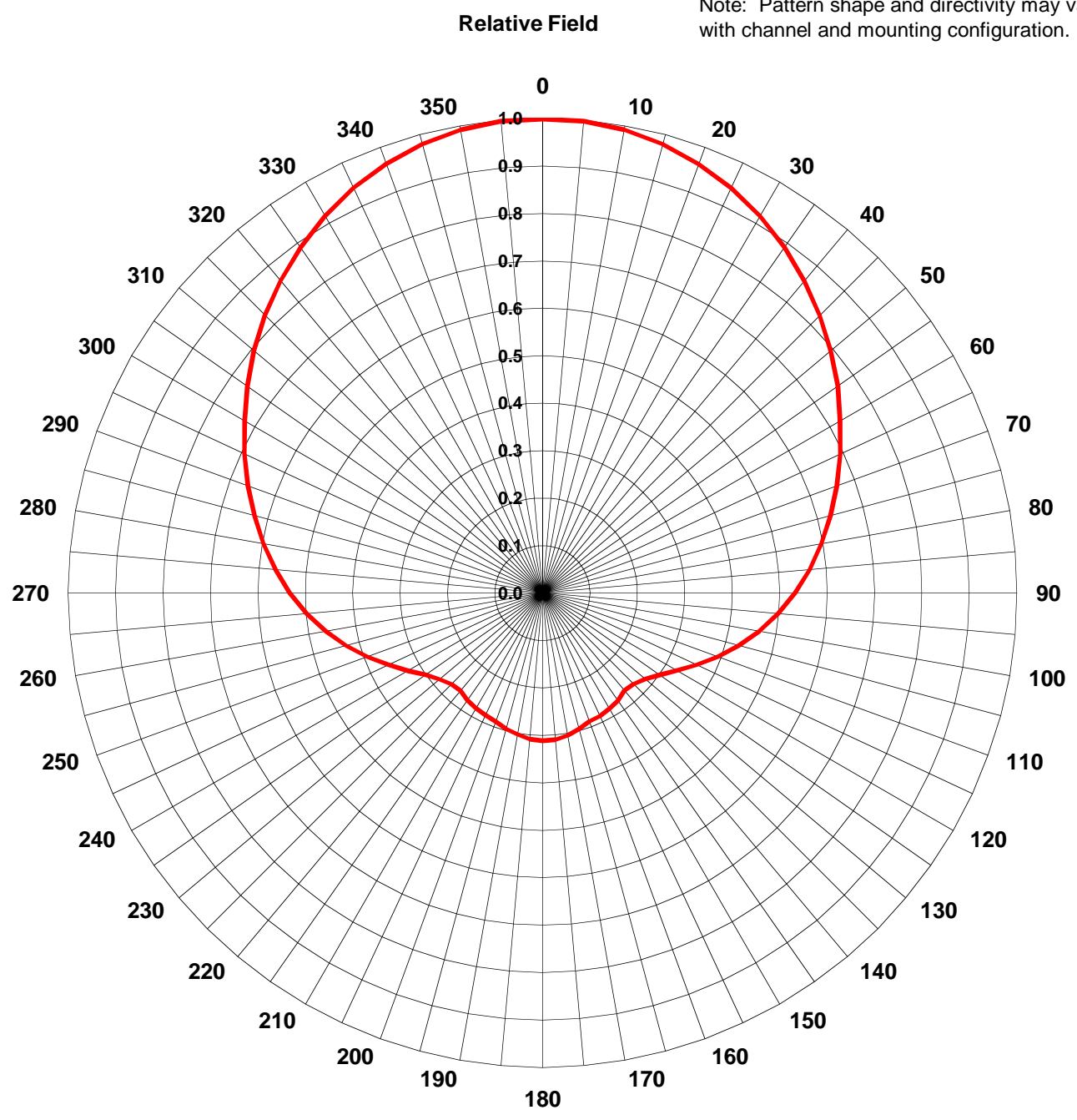
ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	1.000	0.00	92	0.880	-0.85	184	0.316	-12.18	276	0.921	-0.41
2	0.998	-0.03	94	0.869	-1.00	186	0.314	-12.11	278	0.928	-0.32
4	0.997	-0.05	96	0.857	-1.15	188	0.311	-12.01	280	0.936	-0.22
6	0.997	-0.08	98	0.844	-1.31	190	0.306	-11.94	282	0.942	-0.18
8	0.996	-0.10	100	0.830	-1.46	192	0.302	-11.60	284	0.949	-0.14
10	0.995	-0.13	102	0.816	-1.64	194	0.296	-11.28	286	0.955	-0.10
12	0.996	-0.19	104	0.800	-1.83	196	0.292	-11.00	288	0.960	-0.06
14	0.995	-0.26	106	0.784	-2.01	198	0.288	-10.69	290	0.964	-0.03
16	0.995	-0.31	108	0.766	-2.21	200	0.286	-10.40	292	0.969	-0.03
18	0.994	-0.37	110	0.747	-2.41	202	0.285	-9.87	294	0.973	-0.05
20	0.994	-0.44	112	0.728	-2.59	204	0.286	-9.37	296	0.976	-0.06
22	0.994	-0.48	114	0.708	-2.77	206	0.291	-8.90	298	0.979	-0.08
24	0.994	-0.53	116	0.685	-2.96	208	0.297	-8.45	300	0.982	-0.09
26	0.994	-0.58	118	0.663	-3.15	210	0.308	-8.02	302	0.985	-0.14
28	0.994	-0.63	120	0.640	-3.35	212	0.321	-7.54	304	0.986	-0.19
30	0.994	-0.68	122	0.618	-3.54	214	0.337	-7.09	306	0.988	-0.26
32	0.994	-0.67	124	0.594	-3.74	216	0.354	-6.65	308	0.990	-0.31
34	0.994	-0.66	126	0.569	-3.94	218	0.373	-6.25	310	0.991	-0.36
36	0.995	-0.66	128	0.544	-4.15	220	0.395	-5.85	312	0.992	-0.42
38	0.994	-0.65	130	0.519	-4.36	222	0.419	-5.53	314	0.993	-0.47
40	0.995	-0.64	132	0.493	-4.64	224	0.443	-5.22	316	0.993	-0.53
42	0.994	-0.58	134	0.468	-4.93	226	0.468	-4.93	318	0.994	-0.58
44	0.993	-0.53	136	0.443	-5.22	228	0.493	-4.64	320	0.995	-0.64
46	0.993	-0.47	138	0.419	-5.53	230	0.519	-4.36	322	0.994	-0.65
48	0.992	-0.42	140	0.395	-5.85	232	0.544	-4.15	324	0.995	-0.66
50	0.991	-0.36	142	0.373	-6.25	234	0.569	-3.94	326	0.994	-0.66
52	0.990	-0.31	144	0.354	-6.65	236	0.594	-3.74	328	0.994	-0.67
54	0.988	-0.26	146	0.337	-7.09	238	0.618	-3.54	330	0.994	-0.68
56	0.986	-0.19	148	0.321	-7.54	240	0.640	-3.35	332	0.994	-0.63
58	0.985	-0.14	150	0.308	-8.02	242	0.663	-3.15	334	0.994	-0.58
60	0.982	-0.09	152	0.297	-8.45	244	0.685	-2.96	336	0.994	-0.53
62	0.979	-0.08	154	0.291	-8.90	246	0.708	-2.77	338	0.994	-0.48
64	0.976	-0.06	156	0.286	-9.37	248	0.728	-2.59	340	0.994	-0.44
66	0.973	-0.05	158	0.285	-9.87	250	0.747	-2.41	342	0.994	-0.37
68	0.969	-0.03	160	0.286	-10.40	252	0.766	-2.21	344	0.995	-0.31
70	0.964	-0.03	162	0.288	-10.69	254	0.784	-2.01	346	0.995	-0.26
72	0.960	-0.06	164	0.292	-11.00	256	0.800	-1.83	348	0.996	-0.19
74	0.955	-0.10	166	0.296	-11.28	258	0.816	-1.64	350	0.995	-0.13
76	0.949	-0.14	168	0.302	-11.60	260	0.830	-1.46	352	0.996	-0.10
78	0.942	-0.18	170	0.306	-11.94	262	0.844	-1.31	354	0.997	-0.08
80	0.936	-0.22	172	0.311	-12.01	264	0.857	-1.15	356	0.997	-0.05
82	0.928	-0.32	174	0.314	-12.11	266	0.869	-1.00	358	0.998	-0.03
84	0.921	-0.41	176	0.316	-12.18	268	0.880	-0.85	360	1.000	0.00
86	0.911	-0.51	178	0.316	-12.29	270	0.891	-0.71			
88	0.902	-0.60	180	0.316	-12.36	272	0.902	-0.60			
90	0.891	-0.71	182	0.316	-12.29	274	0.911	-0.51			



AZIMUTH PATTERN

TYPE:	AL-W-V	
Directivity:	Numeric	dB
Peak(s) at:	2.51	(4.00)
Polarization:	Vertical	
Channel:		
Location:		

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



TABULATED DATA FOR AZIMUTH PATTERN

TYPE: **AL-W-V**

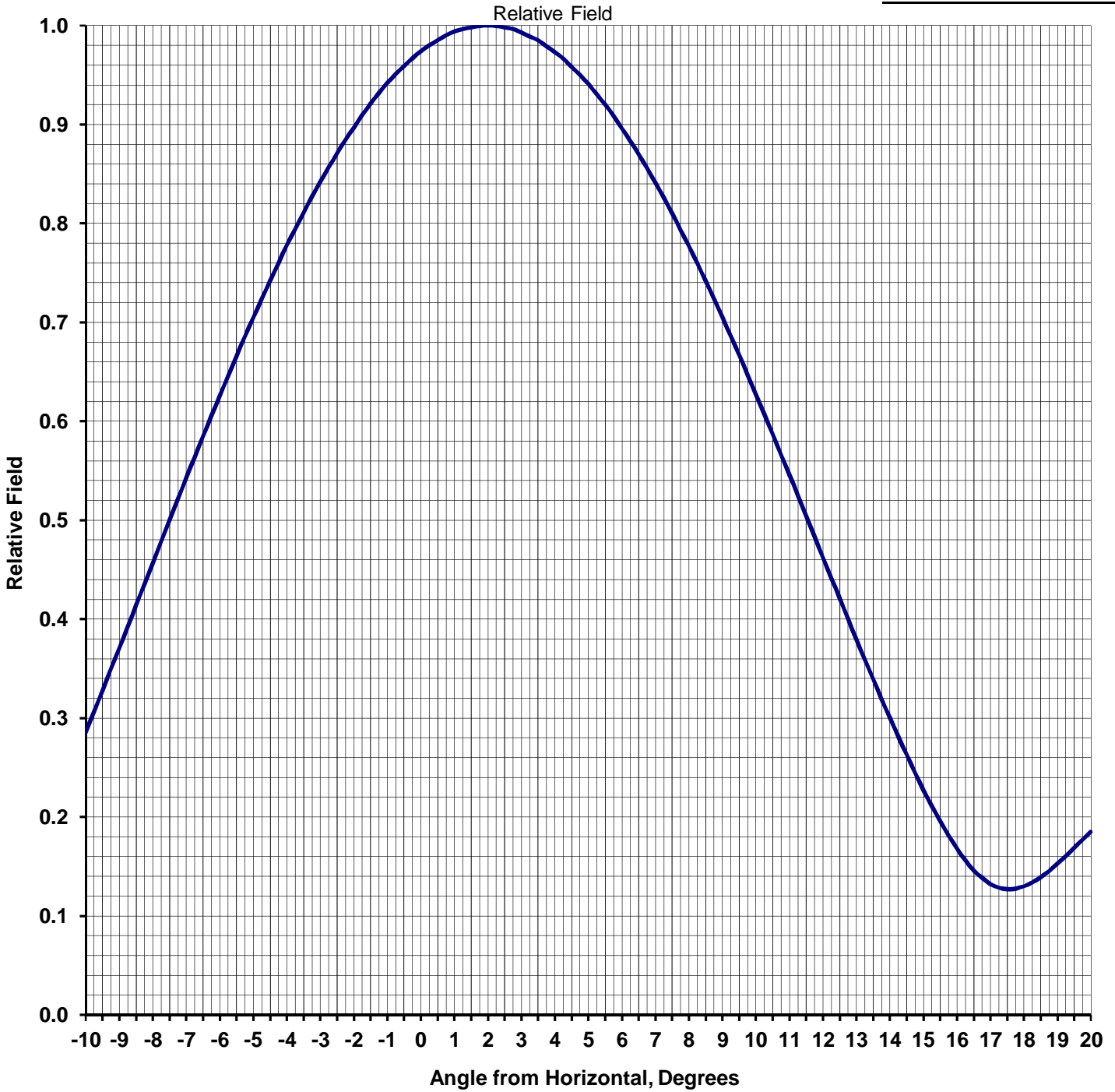
POLARIZATION: **Vertical**

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	0.999	0.00	92	0.519	-2.56	184	0.310	-10.06	276	0.572	-1.95
2	1.000	-0.01	94	0.505	-2.72	186	0.308	-10.26	278	0.584	-1.81
4	0.999	-0.01	96	0.492	-2.89	188	0.306	-10.52	280	0.597	-1.66
6	0.996	-0.01	98	0.478	-3.07	190	0.303	-10.84	282	0.610	-1.52
8	0.995	-0.01	100	0.464	-3.26	192	0.300	-11.24	284	0.622	-1.39
10	0.991	-0.01	102	0.450	-3.47	194	0.298	-11.67	286	0.635	-1.26
12	0.987	-0.01	104	0.436	-3.69	196	0.294	-12.11	288	0.647	-1.13
14	0.982	-0.01	106	0.421	-3.93	198	0.290	-12.62	290	0.661	-1.01
16	0.976	-0.01	108	0.407	-4.19	200	0.288	-13.07	292	0.672	-0.90
18	0.970	-0.01	110	0.393	-4.48	202	0.287	-13.51	294	0.687	-0.79
20	0.962	-0.01	112	0.379	-4.81	204	0.286	-13.94	296	0.699	-0.69
22	0.955	-0.01	114	0.365	-5.16	206	0.284	-14.24	298	0.712	-0.59
24	0.946	-0.01	116	0.352	-5.55	208	0.282	-14.47	300	0.725	-0.50
26	0.937	-0.01	118	0.339	-5.97	210	0.280	-14.52	302	0.740	-0.43
28	0.928	-0.01	120	0.327	-6.45	212	0.278	-14.47	304	0.753	-0.35
30	0.917	-0.01	122	0.316	-6.96	214	0.277	-14.24	306	0.766	-0.29
32	0.907	-0.01	124	0.306	-7.49	216	0.275	-13.85	308	0.780	-0.23
34	0.895	-0.01	126	0.297	-8.09	218	0.274	-13.39	310	0.794	-0.18
36	0.883	-0.01	128	0.289	-8.73	220	0.269	-12.80	312	0.808	-0.14
38	0.871	-0.02	130	0.283	-9.37	222	0.269	-12.15	314	0.819	-0.10
40	0.859	-0.03	132	0.276	-10.06	224	0.270	-11.47	316	0.833	-0.08
42	0.846	-0.05	134	0.272	-10.78	226	0.272	-10.78	318	0.846	-0.05
44	0.833	-0.08	136	0.270	-11.47	228	0.276	-10.06	320	0.859	-0.03
46	0.819	-0.10	138	0.269	-12.15	230	0.283	-9.37	322	0.871	-0.02
48	0.808	-0.14	140	0.269	-12.80	232	0.289	-8.73	324	0.883	-0.01
50	0.794	-0.18	142	0.270	-13.39	234	0.297	-8.09	326	0.895	-0.01
52	0.780	-0.23	144	0.276	-13.85	236	0.306	-7.49	328	0.907	-0.01
54	0.766	-0.29	146	0.278	-14.24	238	0.316	-6.96	330	0.917	-0.01
56	0.753	-0.35	148	0.280	-14.47	240	0.327	-6.45	332	0.928	-0.01
58	0.740	-0.43	150	0.281	-14.52	242	0.339	-5.97	334	0.937	-0.01
60	0.725	-0.50	152	0.283	-14.47	244	0.352	-5.55	336	0.946	-0.01
62	0.712	-0.59	154	0.285	-14.24	246	0.365	-5.16	338	0.955	-0.01
64	0.699	-0.69	156	0.287	-13.94	248	0.379	-4.81	340	0.962	-0.01
66	0.687	-0.79	158	0.287	-13.51	250	0.393	-4.48	342	0.970	-0.01
68	0.672	-0.90	160	0.288	-13.07	252	0.407	-4.19	344	0.976	-0.01
70	0.661	-1.01	162	0.290	-12.62	254	0.421	-3.93	346	0.982	-0.01
72	0.647	-1.13	164	0.294	-12.11	256	0.436	-3.69	348	0.987	-0.01
74	0.635	-1.26	166	0.298	-11.67	258	0.450	-3.47	350	0.991	-0.01
76	0.622	-1.39	168	0.302	-11.24	260	0.464	-3.26	352	0.995	-0.01
78	0.610	-1.52	170	0.305	-10.84	262	0.478	-3.07	354	0.996	-0.01
80	0.597	-1.66	172	0.307	-10.52	264	0.492	-2.89	356	0.999	-0.01
82	0.584	-1.81	174	0.309	-10.26	266	0.505	-2.72	358	1.000	-0.01
84	0.572	-1.95	176	0.311	-10.06	268	0.519	-2.56	360	0.999	0.00
86	0.559	-2.10	178	0.311	-9.92	270	0.533	-2.41			
88	0.545	-2.25	180	0.311	-9.84	272	0.545	-2.25			
90	0.533	-2.41	182	0.311	-9.92	274	0.559	-2.10			



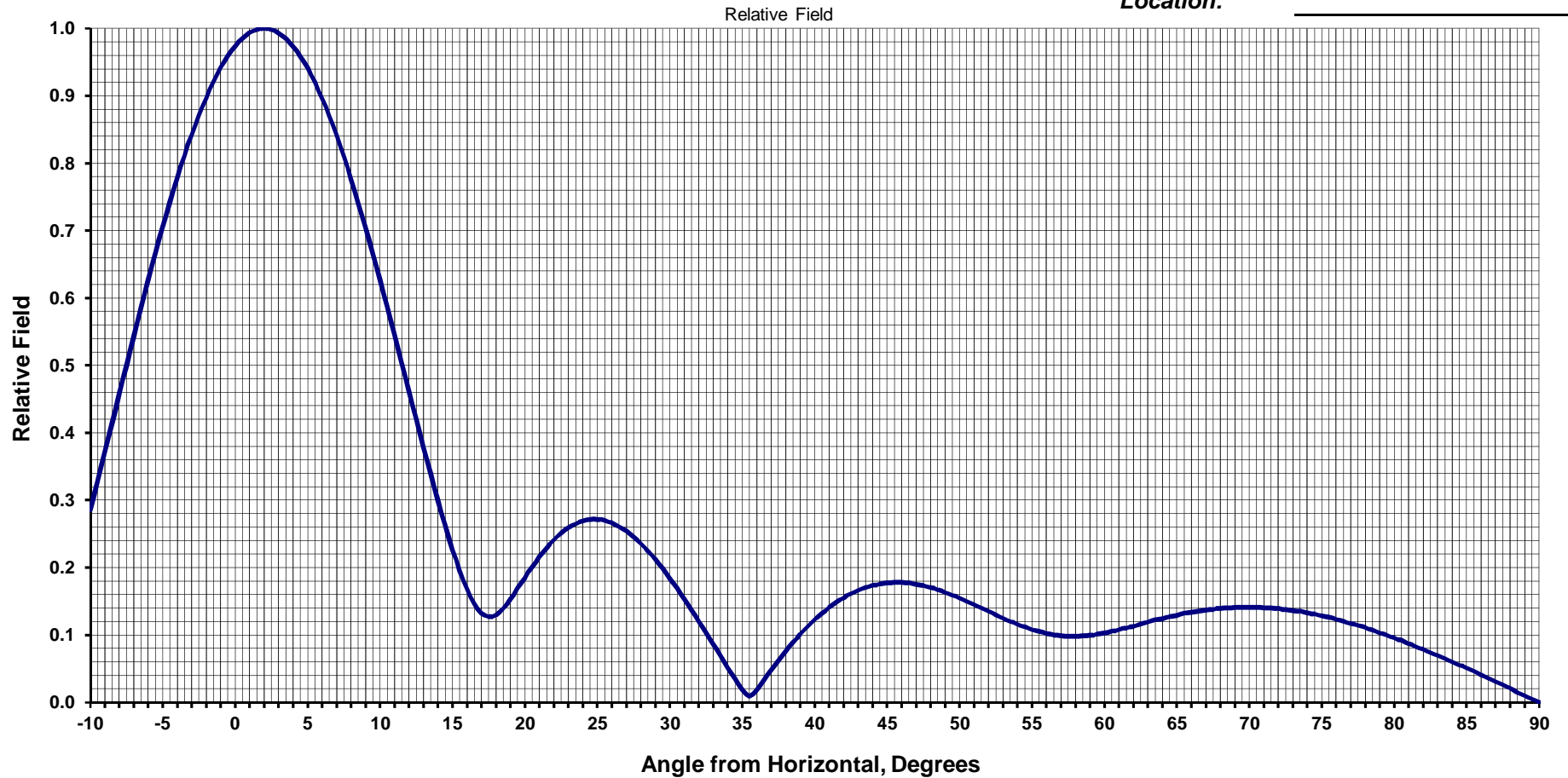
ELEVATION PATTERN

TYPE:	AL4L8	
Directivity:	Numeric	dBd
Main Lobe:	4.24	(6.27)
Horizontal:	4.02	(6.04)
Beam Tilt:	2.00 Degrees	
Polarization:	Horizontal/Vertical	
Channel:		
Location:		



ELEVATION PATTERN

TYPE:	AL4L8	
Directivity:	Numeric	dBd
Main Lobe:	4.24	6.27
Horizontal:	4.02	(6.04)
Beam Tilt:	2.00 Degrees	
Polarization:	Horizontal/Vertical	
Frequency:		
Location:		



TABULATED DATA FOR ELEVATION PATTERN

TYPE: AL4L8

-10 to 10 degrees in 0.25 increments

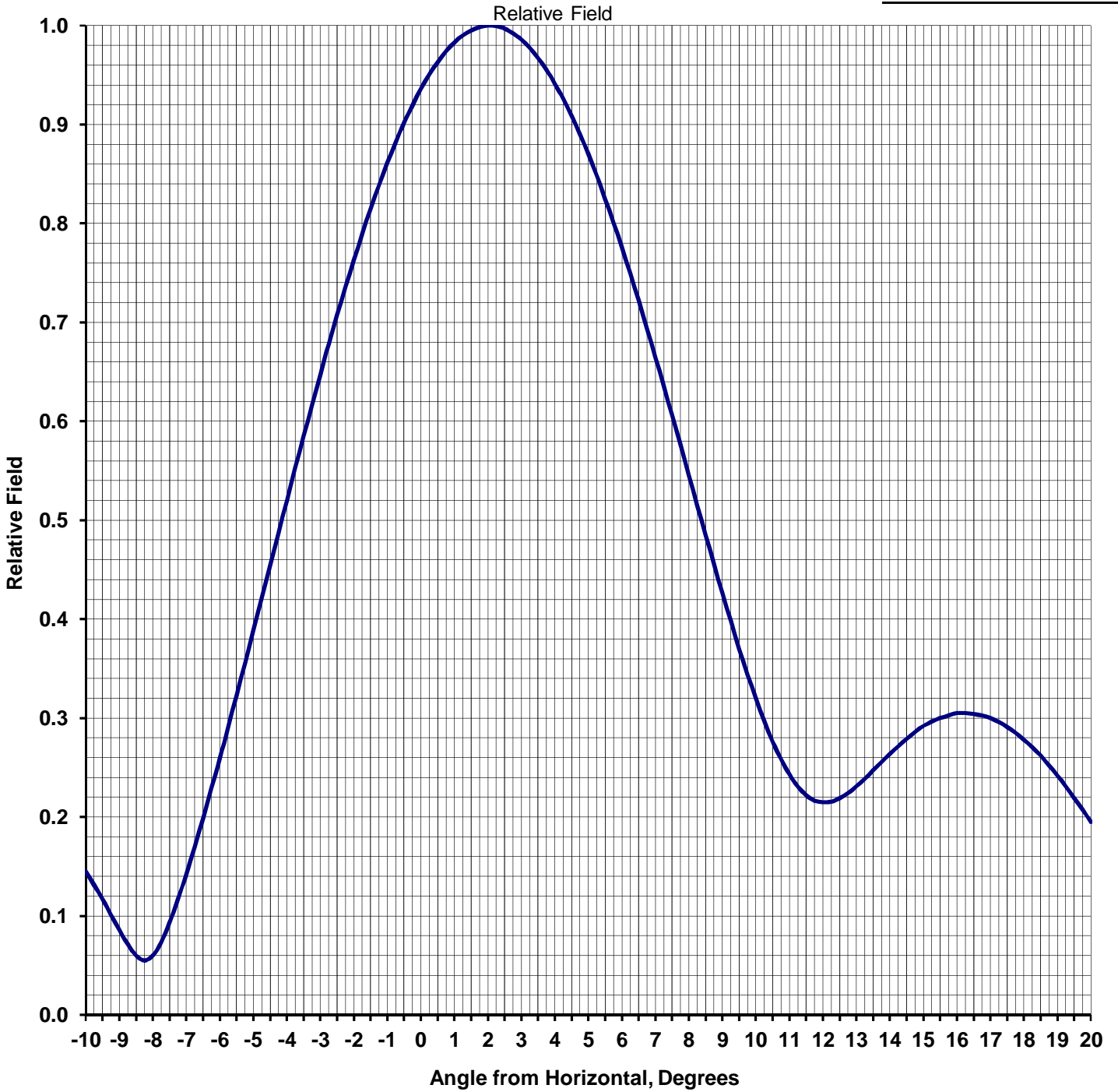
10 to 90 degrees in 0.50 increments

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
-10.00	0.286	-10.87	2.25	1.000	0.00	18.50	0.139	-17.14	43.00	0.166	-15.60	67.50	0.138	-17.20
-9.75	0.307	-10.26	2.50	0.998	-0.02	19.00	0.153	-16.31	43.50	0.170	-15.39	68.00	0.139	-17.14
-9.50	0.328	-9.68	2.75	0.997	-0.03	19.50	0.169	-15.44	44.00	0.173	-15.24	68.50	0.140	-17.08
-9.25	0.350	-9.13	3.00	0.993	-0.06	20.00	0.185	-14.66	44.50	0.176	-15.09	69.00	0.141	-17.02
-9.00	0.371	-8.61	3.25	0.989	-0.10	20.50	0.201	-13.94	45.00	0.177	-15.04	69.50	0.141	-17.02
-8.75	0.392	-8.13	3.50	0.985	-0.13	21.00	0.216	-13.31	45.50	0.178	-14.99	70.00	0.141	-17.02
-8.50	0.414	-7.66	3.75	0.979	-0.18	21.50	0.229	-12.80	46.00	0.178	-14.99	70.50	0.141	-17.02
-8.25	0.436	-7.22	4.00	0.973	-0.24	22.00	0.241	-12.36	46.50	0.177	-15.04	71.00	0.140	-17.08
-8.00	0.457	-6.80	4.25	0.967	-0.30	22.50	0.251	-12.01	47.00	0.175	-15.14	71.50	0.140	-17.08
-7.75	0.479	-6.40	4.50	0.958	-0.37	23.00	0.259	-11.73	47.50	0.173	-15.24	72.00	0.139	-17.14
-7.50	0.500	-6.02	4.75	0.950	-0.45	23.50	0.265	-11.54	48.00	0.170	-15.39	72.50	0.138	-17.20
-7.25	0.522	-5.65	5.00	0.941	-0.53	24.00	0.269	-11.40	48.50	0.167	-15.55	73.00	0.136	-17.33
-7.00	0.543	-5.30	5.25	0.931	-0.63	24.50	0.271	-11.34	49.00	0.163	-15.76	73.50	0.135	-17.39
-6.75	0.564	-4.97	5.50	0.920	-0.72	25.00	0.271	-11.34	49.50	0.159	-15.97	74.00	0.133	-17.52
-6.50	0.585	-4.66	5.75	0.909	-0.83	25.50	0.270	-11.37	50.00	0.155	-16.19	74.50	0.131	-17.65
-6.25	0.606	-4.36	6.00	0.896	-0.95	26.00	0.266	-11.50	50.50	0.150	-16.48	75.00	0.128	-17.86
-6.00	0.626	-4.07	6.25	0.884	-1.08	26.50	0.261	-11.67	51.00	0.145	-16.77	75.50	0.126	-17.99
-5.75	0.646	-3.80	6.50	0.870	-1.21	27.00	0.254	-11.90	51.50	0.140	-17.08	76.00	0.123	-18.20
-5.50	0.666	-3.53	6.75	0.856	-1.35	27.50	0.245	-12.22	52.00	0.135	-17.39	76.50	0.120	-18.42
-5.25	0.686	-3.27	7.00	0.841	-1.50	28.00	0.236	-12.54	52.50	0.130	-17.72	77.00	0.117	-18.64
-5.00	0.705	-3.04	7.25	0.826	-1.66	28.50	0.224	-13.00	53.00	0.125	-18.06	77.50	0.114	-18.86
-4.75	0.724	-2.81	7.50	0.810	-1.83	29.00	0.212	-13.47	53.50	0.120	-18.42	78.00	0.111	-19.09
-4.50	0.742	-2.59	7.75	0.794	-2.01	29.50	0.199	-14.02	54.00	0.116	-18.71	78.50	0.107	-19.41
-4.25	0.760	-2.38	8.00	0.777	-2.19	30.00	0.184	-14.70	54.50	0.112	-19.02	79.00	0.103	-19.74
-4.00	0.778	-2.18	8.25	0.760	-2.39	30.50	0.169	-15.44	55.00	0.108	-19.33	79.50	0.100	-20.00
-3.75	0.795	-2.00	8.50	0.742	-2.59	31.00	0.153	-16.31	55.50	0.105	-19.58	80.00	0.096	-20.35
-3.50	0.811	-1.82	8.75	0.724	-2.81	31.50	0.137	-17.27	56.00	0.102	-19.83	80.50	0.092	-20.72
-3.25	0.827	-1.65	9.00	0.705	-3.04	32.00	0.120	-18.42	56.50	0.100	-20.00	81.00	0.087	-21.21
-3.00	0.842	-1.49	9.25	0.686	-3.27	32.50	0.103	-19.74	57.00	0.099	-20.09	81.50	0.083	-21.62
-2.75	0.857	-1.34	9.50	0.667	-3.52	33.00	0.086	-21.31	57.50	0.098	-20.18	82.00	0.079	-22.05
-2.50	0.871	-1.20	9.75	0.647	-3.78	33.50	0.069	-23.22	58.00	0.098	-20.18	82.50	0.074	-22.62
-2.25	0.885	-1.07	10.00	0.627	-4.05	34.00	0.051	-25.85	58.50	0.099	-20.09	83.00	0.070	-23.10
-2.00	0.897	-0.94	10.25	0.607	-4.34	34.50	0.035	-29.12	59.00	0.100	-20.00	83.50	0.065	-23.74
-1.75	0.910	-0.82	10.50	0.587	-4.63	35.00	0.019	-34.42	59.50	0.101	-19.91	84.00	0.060	-24.44
-1.50	0.921	-0.71	11.00	0.546	-5.26	35.50	0.009	-40.92	60.00	0.103	-19.74	84.50	0.06	-25.19
-1.25	0.932	-0.61	11.50	0.504	-5.95	36.00	0.019	-34.42	60.50	0.105	-19.58	85.00	0.05	-25.85
-1.00	0.942	-0.52	12.00	0.462	-6.71	36.50	0.033	-29.63	61.00	0.108	-19.33	85.50	0.05	-26.74
-0.75	0.951	-0.44	12.50	0.421	-7.51	37.00	0.048	-26.38	61.50	0.110	-19.17	86.00	0.04	-27.74
-0.50	0.959	-0.36	13.00	0.379	-8.43	37.50	0.062	-24.15	62.00	0.113	-18.94	86.50	0.04	-28.87
-0.25	0.967	-0.29	13.50	0.339	-9.40	38.00	0.076	-22.38	62.50	0.116	-18.71	87.00	0.03	-30.17
0.00	0.974	-0.23	14.00	0.300	-10.46	38.50	0.089	-21.01	63.00	0.119	-18.49	87.50	0.03	-31.70
0.25	0.980	-0.18	14.50	0.263	-11.60	39.00	0.101	-19.91	63.50	0.122	-18.27	88.00	0.02	-33.56
0.50	0.985	-0.13	15.00	0.227	-12.88	39.50	0.112	-19.02	64.00	0.124	-18.13	88.50	0.02	-36.48
0.75	0.990	-0.09	15.50	0.196	-14.15	40.00	0.123	-18.20	64.50	0.127	-17.92	89.00	0.01	-40.00
1.00	0.994	-0.05	16.00	0.168	-15.49	40.50	0.132	-17.59	65.00	0.129	-17.79	89.50	0.01	-46.02
1.25	0.997	-0.03	16.50	0.146	-16.71	41.00	0.141	-17.02	65.50	0.132	-17.59	90.00	0.00	---
1.50	0.998	-0.02	17.00	0.132	-17.59	41.50	0.149	-16.54	66.00	0.134	-17.46			
1.75	1.000	0.00	17.50	0.127	-17.92	42.00	0.155	-16.19	66.50	0.135	-17.39			
2.00	1.000	0.00	18.00	0.130	-17.72	42.50	0.161	-15.86	67.00	0.137	-17.27			



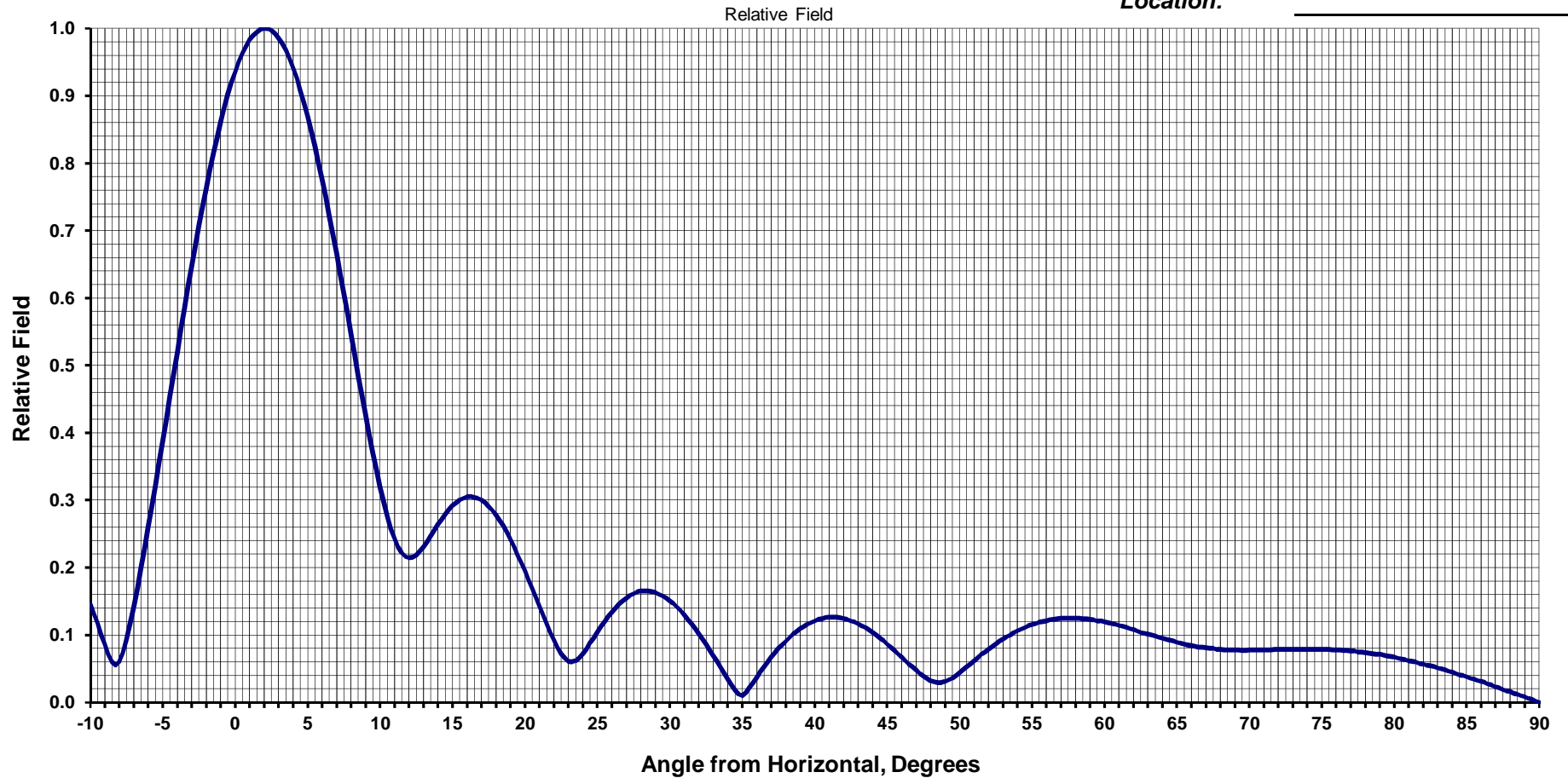
ELEVATION PATTERN

TYPE:	AL6L8	
Directivity:	Numeric	dBd
Main Lobe:	6.26	(7.97)
Horizontal:	5.48	(7.39)
Beam Tilt:	2.00 Degrees	
Polarization:	Horizontal/Vertical	
Channel:		
Location:		



ELEVATION PATTERN

TYPE:	AL6L8	
Directivity:	Numeric	dBd
Main Lobe:	6.26	7.97
Horizontal:	5.48	(7.39)
Beam Tilt:	2.00 Degrees	
Polarization:	Horizontal/Vertical	
Frequency:		
Location:		



TABULATED DATA FOR ELEVATION PATTERN

TYPE: **AL6L8**

-10 to 10 degrees in 0.25 increments

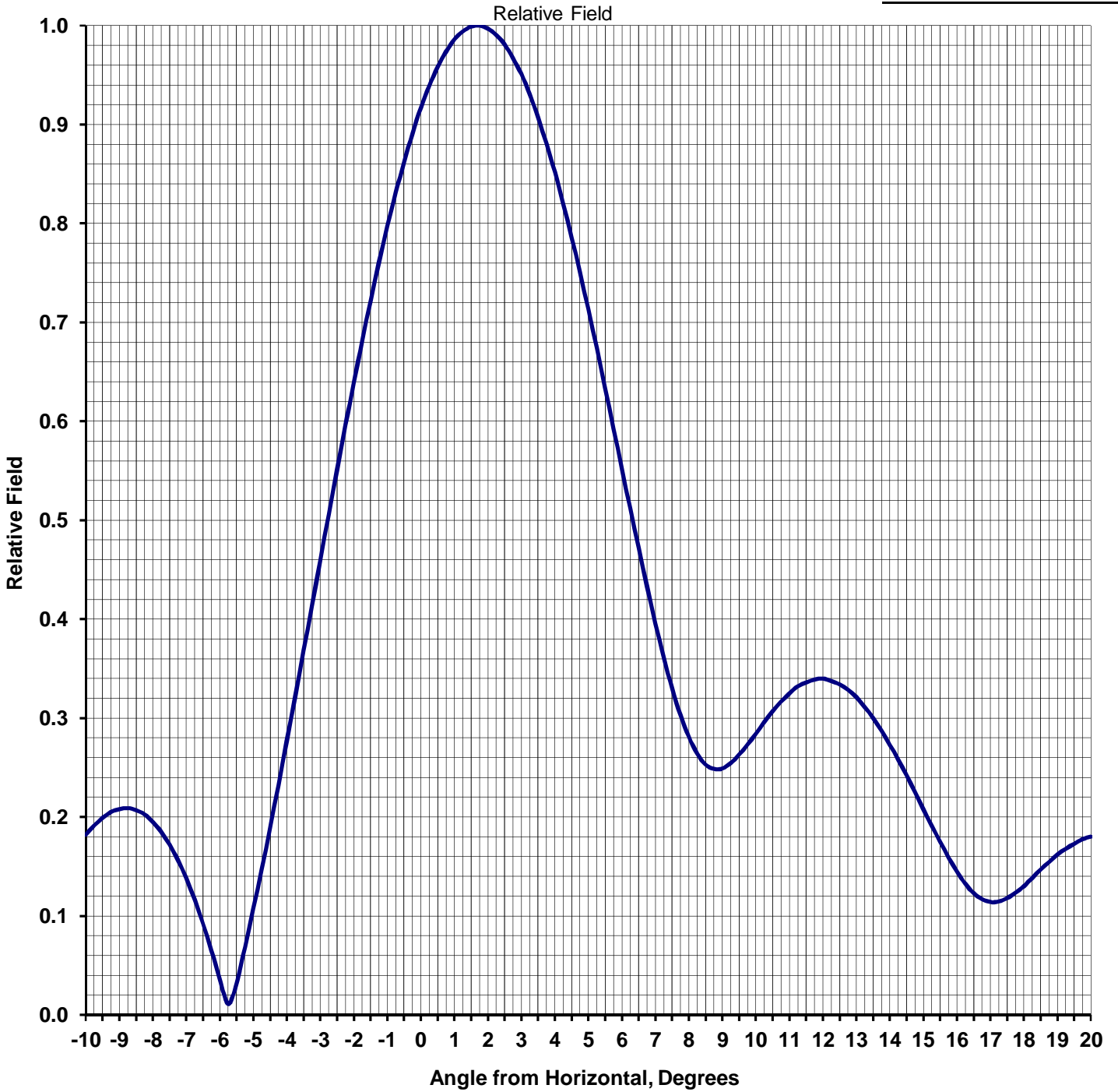
10 to 90 degrees in 0.50 increments

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
-10.00	0.145	-16.77	2.25	1.000	0.00	18.50	0.262	-11.63	43.00	0.117	-18.64	67.50	0.080	-21.94
-9.75	0.131	-17.65	2.50	0.997	-0.03	19.00	0.242	-12.32	43.50	0.111	-19.09	68.00	0.079	-22.05
-9.50	0.117	-18.64	2.75	0.992	-0.07	19.50	0.219	-13.19	44.00	0.104	-19.66	68.50	0.078	-22.16
-9.25	0.101	-19.91	3.00	0.986	-0.12	20.00	0.195	-14.20	44.50	0.096	-20.35	69.00	0.078	-22.16
-9.00	0.086	-21.31	3.25	0.978	-0.20	20.50	0.169	-15.44	45.00	0.087	-21.21	69.50	0.077	-22.27
-8.75	0.072	-22.91	3.50	0.967	-0.29	21.00	0.143	-16.89	45.50	0.077	-22.27	70.00	0.078	-22.16
-8.50	0.060	-24.44	3.75	0.956	-0.40	21.50	0.116	-18.71	46.00	0.067	-23.48	70.50	0.078	-22.16
-8.25	0.055	-25.19	4.00	0.941	-0.53	22.00	0.092	-20.72	46.50	0.057	-24.88	71.00	0.078	-22.16
-8.00	0.060	-24.44	4.25	0.926	-0.67	22.50	0.072	-22.85	47.00	0.048	-26.38	71.50	0.078	-22.16
-7.75	0.074	-22.67	4.50	0.909	-0.83	23.00	0.061	-24.29	47.50	0.039	-28.18	72.00	0.079	-22.05
-7.50	0.093	-20.63	4.75	0.890	-1.01	23.50	0.062	-24.15	48.00	0.032	-29.90	72.50	0.079	-22.05
-7.25	0.117	-18.64	5.00	0.870	-1.21	24.00	0.072	-22.85	48.50	0.029	-30.75	73.00	0.079	-22.05
-7.00	0.142	-16.95	5.25	0.849	-1.43	24.50	0.088	-21.11	49.00	0.031	-30.17	73.50	0.079	-22.05
-6.75	0.170	-15.39	5.50	0.825	-1.67	25.00	0.104	-19.66	49.50	0.036	-28.87	74.00	0.079	-22.05
-6.50	0.199	-14.02	5.75	0.801	-1.93	25.50	0.120	-18.42	50.00	0.044	-27.13	74.50	0.079	-22.05
-6.25	0.229	-12.80	6.00	0.776	-2.20	26.00	0.134	-17.46	50.50	0.053	-25.51	75.00	0.079	-22.05
-6.00	0.259	-11.73	6.25	0.750	-2.50	26.50	0.146	-16.71	51.00	0.062	-24.15	75.50	0.079	-22.05
-5.75	0.291	-10.72	6.50	0.722	-2.83	27.00	0.155	-16.19	51.50	0.071	-22.97	76.00	0.078	-22.16
-5.50	0.323	-9.82	6.75	0.694	-3.17	27.50	0.161	-15.86	52.00	0.079	-22.05	76.50	0.077	-22.27
-5.25	0.356	-8.98	7.00	0.665	-3.54	28.00	0.165	-15.65	52.50	0.087	-21.21	77.00	0.076	-22.38
-5.00	0.388	-8.22	7.25	0.636	-3.93	28.50	0.165	-15.65	53.00	0.094	-20.54	77.50	0.075	-22.50
-4.75	0.421	-7.51	7.50	0.606	-4.35	29.00	0.163	-15.76	53.50	0.100	-20.00	78.00	0.074	-22.62
-4.50	0.454	-6.86	7.75	0.576	-4.79	29.50	0.158	-16.03	54.00	0.106	-19.49	78.50	0.072	-22.85
-4.25	0.487	-6.25	8.00	0.546	-5.26	30.00	0.151	-16.42	54.50	0.111	-19.09	79.00	0.071	-22.97
-4.00	0.520	-5.68	8.25	0.515	-5.76	30.50	0.141	-17.02	55.00	0.115	-18.79	79.50	0.069	-23.22
-3.75	0.553	-5.15	8.50	0.485	-6.29	31.00	0.130	-17.72	55.50	0.119	-18.49	80.00	0.067	-23.48
-3.50	0.585	-4.66	8.75	0.456	-6.83	31.50	0.117	-18.64	56.00	0.121	-18.34	80.50	0.064	-23.88
-3.25	0.616	-4.21	9.00	0.426	-7.41	32.00	0.102	-19.83	56.50	0.123	-18.20	81.00	0.062	-24.15
-3.00	0.647	-3.78	9.25	0.398	-8.00	32.50	0.086	-21.31	57.00	0.125	-18.06	81.50	0.060	-24.44
-2.75	0.678	-3.38	9.50	0.370	-8.64	33.00	0.069	-23.22	57.50	0.125	-18.06	82.00	0.057	-24.88
-2.50	0.707	-3.01	9.75	0.344	-9.27	33.50	0.052	-25.68	58.00	0.125	-18.06	82.50	0.054	-25.35
-2.25	0.736	-2.67	10.00	0.320	-9.90	34.00	0.035	-29.12	58.50	0.124	-18.13	83.00	0.051	-25.85
-2.00	0.763	-2.35	10.25	0.297	-10.54	34.50	0.018	-34.89	59.00	0.123	-18.20	83.50	0.048	-26.38
-1.75	0.790	-2.05	10.50	0.276	-11.18	35.00	0.010	-40.00	59.50	0.121	-18.34	84.00	0.045	-26.94
-1.50	0.815	-1.78	11.00	0.243	-12.29	35.50	0.022	-33.15	60.00	0.119	-18.49	84.50	0.04	-27.74
-1.25	0.839	-1.53	11.50	0.222	-13.07	36.00	0.037	-28.64	60.50	0.117	-18.64	85.00	0.04	-28.40
-1.00	0.861	-1.30	12.00	0.215	-13.35	36.50	0.053	-25.51	61.00	0.114	-18.86	85.50	0.03	-29.37
-0.75	0.882	-1.09	12.50	0.219	-13.19	37.00	0.067	-23.48	61.50	0.111	-19.09	86.00	0.03	-30.17
-0.50	0.902	-0.90	13.00	0.231	-12.73	37.50	0.080	-21.94	62.00	0.108	-19.33	86.50	0.03	-31.37
-0.25	0.920	-0.73	13.50	0.247	-12.15	38.00	0.091	-20.82	62.50	0.104	-19.66	87.00	0.02	-32.77
0.00	0.936	-0.57	14.00	0.264	-11.57	38.50	0.101	-19.91	63.00	0.101	-19.91	87.50	0.02	-34.42
0.25	0.951	-0.44	14.50	0.279	-11.09	39.00	0.109	-19.25	63.50	0.098	-20.18	88.00	0.02	-35.92
0.50	0.963	-0.33	15.00	0.292	-10.69	39.50	0.116	-18.71	64.00	0.095	-20.45	88.50	0.01	-38.42
0.75	0.974	-0.23	15.50	0.300	-10.46	40.00	0.121	-18.34	64.50	0.092	-20.72	89.00	0.01	-41.94
1.00	0.983	-0.15	16.00	0.305	-10.31	40.50	0.124	-18.13	65.00	0.089	-21.01	89.50	0.00	-47.96
1.25	0.990	-0.09	16.50	0.304	-10.34	41.00	0.126	-17.99	65.50	0.086	-21.31	90.00	0.00	---
1.50	0.995	-0.04	17.00	0.300	-10.46	41.50	0.126	-17.99	66.00	0.084	-21.51			
1.75	0.999	-0.01	17.50	0.291	-10.72	42.00	0.124	-18.13	66.50	0.082	-21.72			
2.00	1.000	0.00	18.00	0.278	-11.12	42.50	0.121	-18.34	67.00	0.081	-21.83			



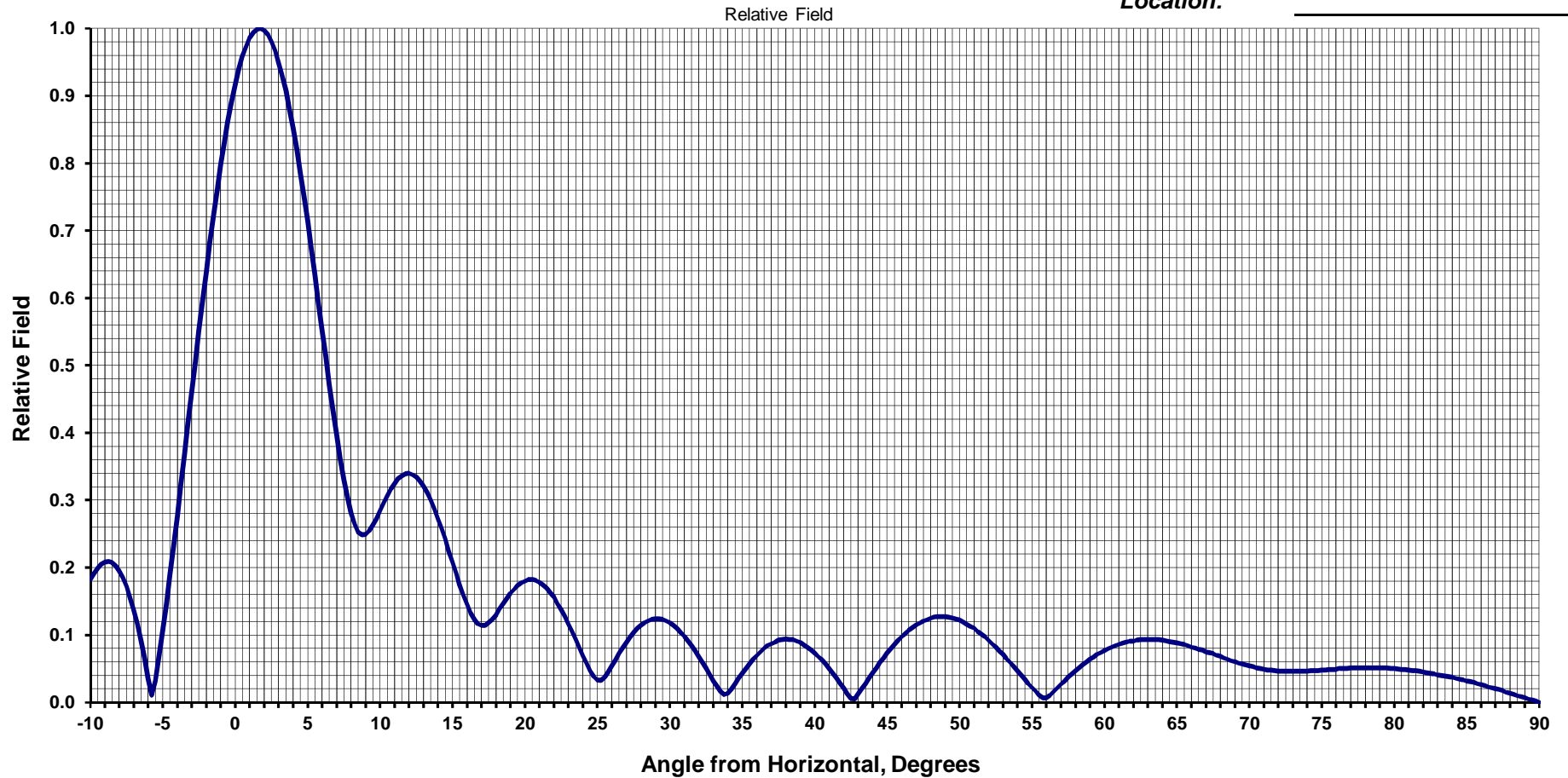
ELEVATION PATTERN

TYPE:	AL8L7	
Directivity:	Numeric	dBd
Main Lobe:	8.25	(9.16)
Horizontal:	6.94	(8.41)
Beam Tilt:	1.75 Degrees	
Polarization:	Horizontal/Vertical	
Channel:		
Location:		



ELEVATION PATTERN

TYPE:	AL8L7	
Directivity:	Numeric	dBd
Main Lobe:	8.25	9.16
Horizontal:	6.94	8.41
Beam Tilt:	1.75 Degrees	
Polarization:	Horizontal/Vertical	
Frequency:		
Location:		



TABULATED DATA FOR ELEVATION PATTERN

TYPE: **AL8L7**

-10 to 10 degrees in 0.25 increments

10 to 90 degrees in 0.50 increments

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
-10.00	0.182	-14.80	2.25	0.991	-0.08	18.50	0.147	-16.65	43.00	0.012	-38.42	67.50	0.072	-22.85
-9.75	0.192	-14.36	2.50	0.981	-0.17	19.00	0.162	-15.81	43.50	0.028	-31.06	68.00	0.068	-23.35
-9.50	0.199	-14.02	2.75	0.967	-0.29	19.50	0.173	-15.24	44.00	0.044	-27.13	68.50	0.064	-23.88
-9.25	0.205	-13.76	3.00	0.951	-0.44	20.00	0.180	-14.89	44.50	0.059	-24.58	69.00	0.060	-24.44
-9.00	0.208	-13.64	3.25	0.931	-0.63	20.50	0.182	-14.80	45.00	0.073	-22.73	69.50	0.057	-24.88
-8.75	0.209	-13.60	3.50	0.907	-0.85	21.00	0.178	-14.99	45.50	0.086	-21.31	70.00	0.054	-25.35
-8.50	0.207	-13.68	3.75	0.881	-1.11	21.50	0.169	-15.44	46.00	0.097	-20.26	70.50	0.051	-25.85
-8.25	0.203	-13.87	4.00	0.852	-1.39	22.00	0.156	-16.14	46.50	0.107	-19.41	71.00	0.049	-26.20
-8.00	0.195	-14.20	4.25	0.820	-1.72	22.50	0.138	-17.20	47.00	0.115	-18.79	71.50	0.048	-26.38
-7.75	0.185	-14.66	4.50	0.786	-2.09	23.00	0.117	-18.64	47.50	0.121	-18.34	72.00	0.046	-26.74
-7.50	0.172	-15.29	4.75	0.751	-2.49	23.50	0.093	-20.63	48.00	0.125	-18.06	72.50	0.046	-26.74
-7.25	0.157	-16.11	5.00	0.713	-2.94	24.00	0.069	-23.22	48.50	0.127	-17.92	73.00	0.046	-26.74
-7.00	0.138	-17.20	5.25	0.674	-3.43	24.50	0.047	-26.56	49.00	0.127	-17.92	73.50	0.046	-26.74
-6.75	0.117	-18.67	5.50	0.634	-3.96	25.00	0.033	-29.63	49.50	0.125	-18.06	74.00	0.046	-26.74
-6.50	0.092	-20.72	5.75	0.593	-4.54	25.50	0.037	-28.64	50.00	0.122	-18.27	74.50	0.047	-26.56
-6.25	0.065	-23.74	6.00	0.552	-5.16	26.00	0.054	-25.35	50.50	0.116	-18.71	75.00	0.048	-26.38
-6.00	0.036	-28.87	6.25	0.512	-5.81	26.50	0.072	-22.85	51.00	0.110	-19.17	75.50	0.049	-26.20
-5.75	0.011	-39.17	6.50	0.472	-6.52	27.00	0.089	-21.01	51.50	0.101	-19.91	76.00	0.049	-26.20
-5.50	0.032	-29.90	6.75	0.433	-7.27	27.50	0.104	-19.66	52.00	0.092	-20.72	76.50	0.050	-26.02
-5.25	0.069	-23.29	7.00	0.396	-8.05	28.00	0.114	-18.86	52.50	0.082	-21.72	77.00	0.051	-25.85
-5.00	0.107	-19.41	7.25	0.362	-8.84	28.50	0.121	-18.34	53.00	0.071	-22.97	77.50	0.051	-25.85
-4.75	0.147	-16.65	7.50	0.330	-9.63	29.00	0.124	-18.13	53.50	0.059	-24.58	78.00	0.051	-25.85
-4.50	0.189	-14.47	7.75	0.303	-10.37	29.50	0.123	-18.20	54.00	0.047	-26.56	78.50	0.051	-25.85
-4.25	0.232	-12.69	8.00	0.281	-11.03	30.00	0.118	-18.56	54.50	0.034	-29.37	79.00	0.051	-25.85
-4.00	0.277	-11.15	8.25	0.264	-11.57	30.50	0.109	-19.25	55.00	0.022	-33.15	79.50	0.051	-25.85
-3.75	0.322	-9.84	8.50	0.253	-11.94	31.00	0.098	-20.18	55.50	0.011	-39.17	80.00	0.050	-26.02
-3.50	0.368	-8.68	8.75	0.249	-12.09	31.50	0.084	-21.51	56.00	0.007	-43.10	80.50	0.049	-26.20
-3.25	0.414	-7.67	9.00	0.249	-12.08	32.00	0.068	-23.35	56.50	0.016	-35.92	81.00	0.048	-26.38
-3.00	0.460	-6.74	9.25	0.255	-11.89	32.50	0.050	-26.02	57.00	0.027	-31.37	81.50	0.047	-26.56
-2.75	0.506	-5.92	9.50	0.263	-11.60	33.00	0.032	-29.90	57.50	0.037	-28.64	82.00	0.045	-26.94
-2.50	0.551	-5.18	9.75	0.273	-11.28	33.50	0.016	-35.92	58.00	0.047	-26.56	82.50	0.043	-27.33
-2.25	0.596	-4.50	10.00	0.284	-10.93	34.00	0.013	-37.72	58.50	0.056	-25.04	83.00	0.041	-27.74
-2.00	0.639	-3.89	10.25	0.296	-10.57	34.50	0.028	-31.06	59.00	0.064	-23.88	83.50	0.039	-28.18
-1.75	0.682	-3.33	10.50	0.307	-10.26	35.00	0.043	-27.33	59.50	0.071	-22.97	84.00	0.037	-28.64
-1.50	0.722	-2.83	11.00	0.325	-9.76	35.50	0.057	-24.88	60.00	0.077	-22.27	84.50	0.03	-29.37
-1.25	0.761	-2.38	11.50	0.336	-9.47	36.00	0.070	-23.10	60.50	0.082	-21.72	85.00	0.03	-29.90
-1.00	0.797	-1.97	12.00	0.340	-9.37	36.50	0.080	-21.94	61.00	0.086	-21.31	85.50	0.03	-30.75
-0.75	0.831	-1.61	12.50	0.334	-9.53	37.00	0.087	-21.21	61.50	0.089	-21.01	86.00	0.03	-31.70
-0.50	0.862	-1.29	13.00	0.321	-9.87	37.50	0.092	-20.72	62.00	0.091	-20.82	86.50	0.02	-32.77
-0.25	0.891	-1.00	13.50	0.300	-10.46	38.00	0.094	-20.54	62.50	0.093	-20.63	87.00	0.02	-33.98
0.00	0.917	-0.75	14.00	0.273	-11.28	38.50	0.093	-20.63	63.00	0.093	-20.63	87.50	0.02	-35.39
0.25	0.939	-0.55	14.50	0.242	-12.32	39.00	0.089	-21.01	63.50	0.093	-20.63	88.00	0.01	-37.72
0.50	0.958	-0.37	15.00	0.208	-13.64	39.50	0.082	-21.72	64.00	0.092	-20.72	88.50	0.01	-40.00
0.75	0.974	-0.23	15.50	0.175	-15.14	40.00	0.073	-22.73	64.50	0.090	-20.92	89.00	0.01	-43.10
1.00	0.986	-0.12	16.00	0.145	-16.77	40.50	0.063	-24.01	65.00	0.088	-21.11	89.50	0.00	-50.46
1.25	0.994	-0.05	16.50	0.123	-18.20	41.00	0.050	-26.02	65.50	0.086	-21.31	90.00	0.00	---
1.50	0.999	-0.01	17.00	0.114	-18.86	41.50	0.036	-28.87	66.00	0.082	-21.72			
1.75	1.000	0.00	17.50	0.118	-18.56	42.00	0.021	-33.56	66.50	0.079	-22.05			
2.00	0.997	-0.03	18.00	0.130	-17.72	42.50	0.006	-44.44	67.00	0.075	-22.50			

