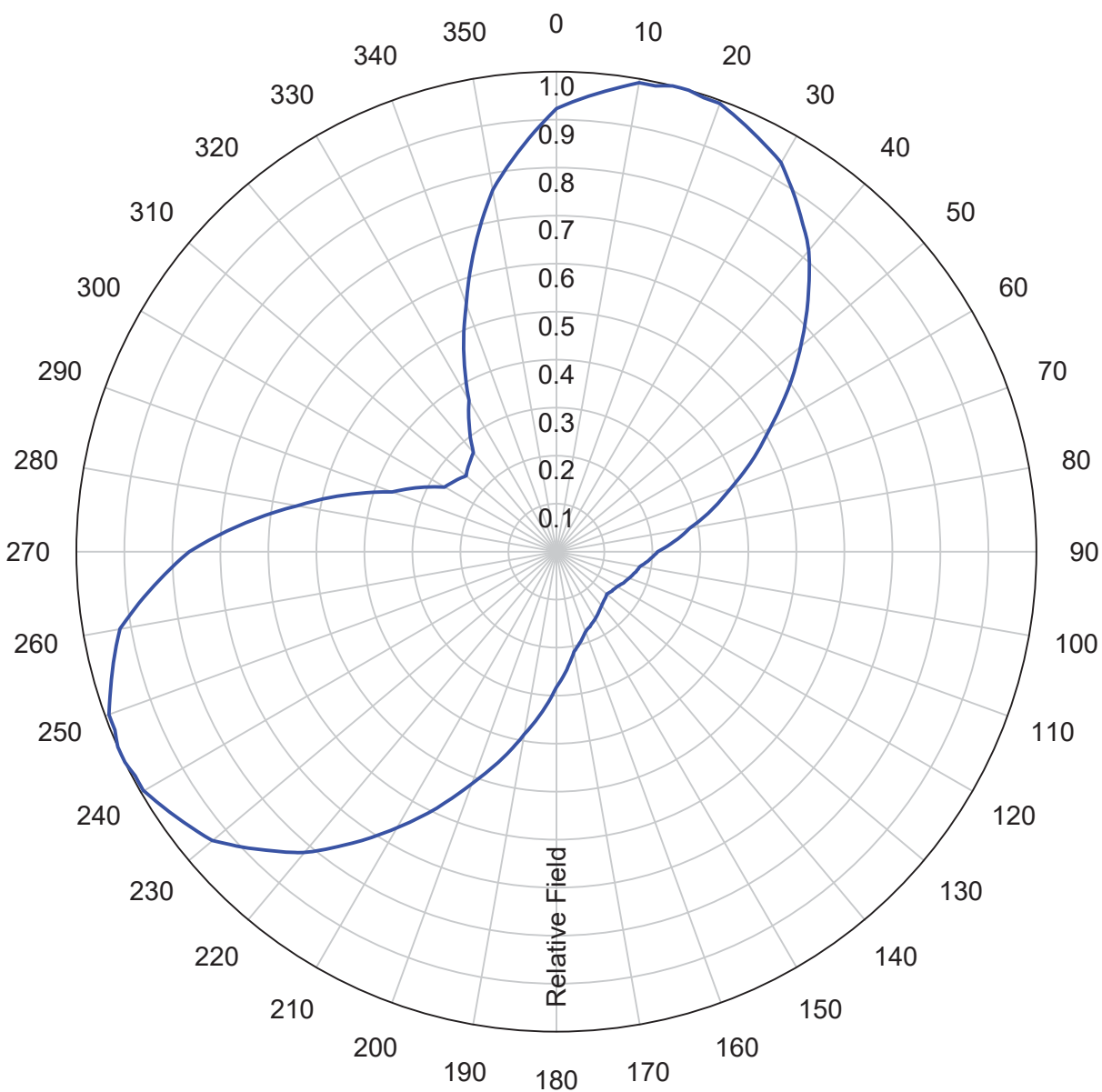


AZIMUTH PATTERN**Type:**ALP-BR**Channel:**14**Directivity:**NumericdBd2.754.39**Peak(s) at:****Location:****Polarization:**Horizontal

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



Preliminary, subject to final design and review.

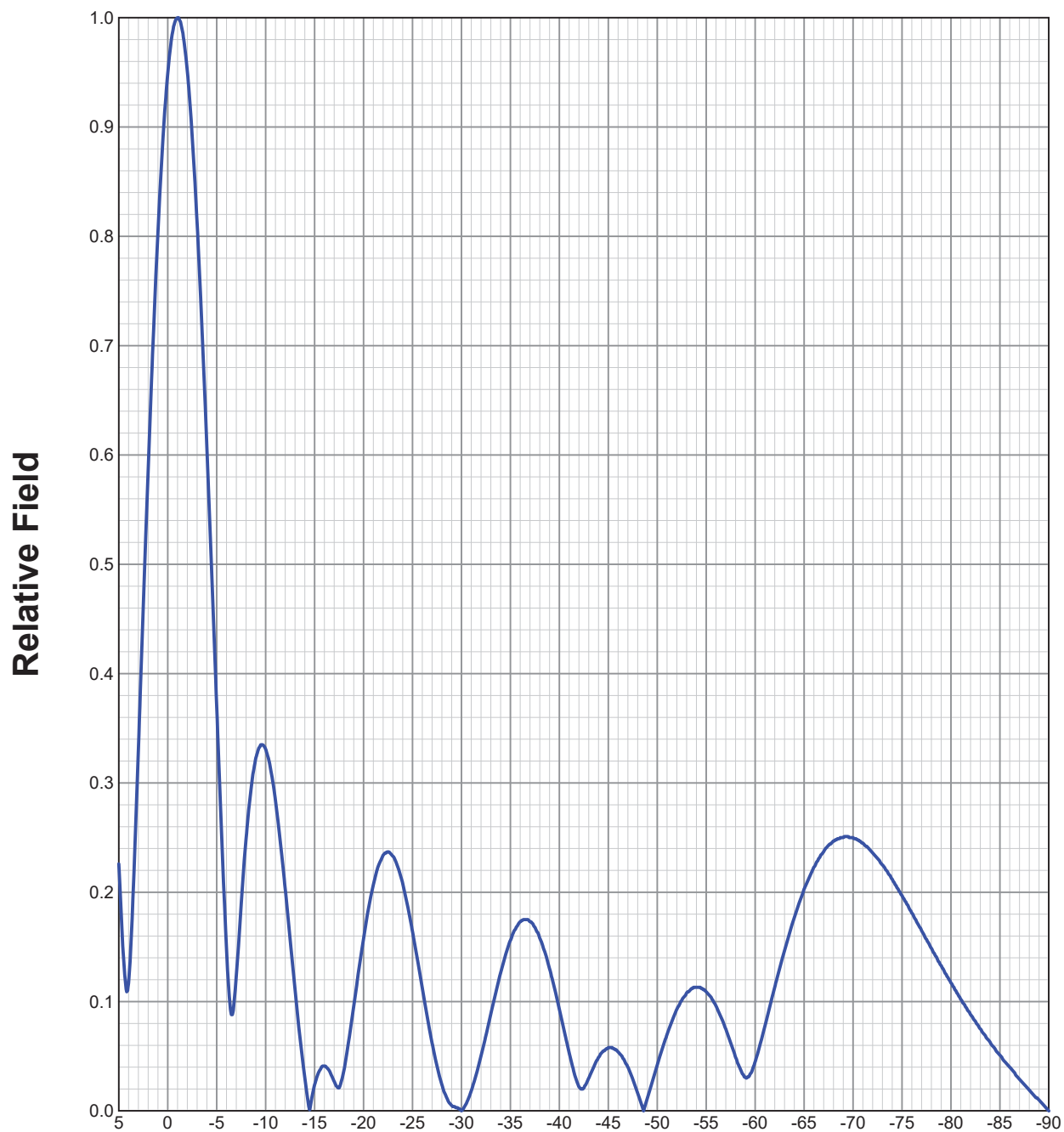
TABULATED DATA FOR AZIMUTH PATTERN

Type: ALP-BR

PolarizationHorizontal

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	0.923	-0.70	92	0.204	-13.81	184	0.324	-9.79	276	0.635	-3.94
2	0.937	-0.57	94	0.197	-14.11	186	0.344	-9.27	278	0.592	-4.55
4	0.951	-0.44	96	0.191	-14.38	188	0.365	-8.75	280	0.549	-5.21
6	0.964	-0.32	98	0.184	-14.70	190	0.386	-8.27	282	0.512	-5.81
8	0.978	-0.19	100	0.177	-15.04	192	0.411	-7.72	284	0.475	-6.47
10	0.992	-0.07	102	0.174	-15.19	194	0.437	-7.19	286	0.438	-7.17
12	0.992	-0.07	104	0.171	-15.34	196	0.462	-6.71	288	0.401	-7.94
14	1.000	0.00	106	0.167	-15.55	198	0.488	-6.23	290	0.364	-8.78
16	1.000	0.00	108	0.164	-15.70	200	0.513	-5.80	292	0.345	-9.24
18	0.994	-0.05	110	0.161	-15.86	202	0.543	-5.30	294	0.326	-9.74
20	0.994	-0.05	112	0.158	-16.03	204	0.573	-4.84	296	0.307	-10.26
22	0.982	-0.16	114	0.155	-16.19	206	0.604	-4.38	298	0.288	-10.81
24	0.971	-0.26	116	0.152	-16.36	208	0.634	-3.96	300	0.269	-11.40
26	0.959	-0.36	118	0.149	-16.54	210	0.664	-3.56	302	0.264	-11.57
28	0.948	-0.46	120	0.146	-16.71	212	0.695	-3.16	304	0.260	-11.70
30	0.936	-0.57	122	0.144	-16.83	214	0.726	-2.78	306	0.255	-11.87
32	0.912	-0.80	124	0.142	-16.95	216	0.756	-2.43	308	0.251	-12.01
34	0.889	-1.02	126	0.141	-17.02	218	0.787	-2.08	310	0.246	-12.18
36	0.865	-1.26	128	0.139	-17.14	220	0.818	-1.74	312	0.251	-12.01
38	0.842	-1.49	130	0.137	-17.27	222	0.842	-1.49	314	0.255	-11.87
40	0.818	-1.74	132	0.139	-17.14	224	0.865	-1.26	316	0.260	-11.70
42	0.787	-2.08	134	0.141	-17.02	226	0.889	-1.02	318	0.264	-11.57
44	0.756	-2.43	136	0.142	-16.95	228	0.912	-0.80	320	0.269	-11.40
46	0.726	-2.78	138	0.144	-16.83	230	0.936	-0.57	322	0.288	-10.81
48	0.695	-3.16	140	0.146	-16.71	232	0.948	-0.46	324	0.307	-10.26
50	0.664	-3.56	142	0.149	-16.54	234	0.959	-0.36	326	0.326	-9.74
52	0.634	-3.96	144	0.152	-16.36	236	0.971	-0.26	328	0.345	-9.24
54	0.604	-4.38	146	0.155	-16.19	238	0.982	-0.16	330	0.364	-8.78
56	0.573	-4.84	148	0.158	-16.03	240	0.994	-0.05	332	0.401	-7.94
58	0.543	-5.30	150	0.161	-15.86	242	0.994	-0.05	334	0.438	-7.17
60	0.513	-5.80	152	0.164	-15.70	244	1.000	0.00	336	0.475	-6.47
62	0.488	-6.23	154	0.167	-15.55	246	1.000	0.00	338	0.512	-5.81
64	0.462	-6.71	156	0.171	-15.34	248	0.992	-0.07	340	0.549	-5.21
66	0.437	-7.19	158	0.174	-15.19	250	0.992	-0.07	342	0.592	-4.55
68	0.411	-7.72	160	0.177	-15.04	252	0.978	-0.19	344	0.635	-3.94
70	0.386	-8.27	162	0.184	-14.70	254	0.964	-0.32	346	0.679	-3.36
72	0.365	-8.75	164	0.191	-14.38	256	0.951	-0.44	348	0.722	-2.83
74	0.344	-9.27	166	0.197	-14.11	258	0.937	-0.57	350	0.765	-2.33
76	0.324	-9.79	168	0.204	-13.81	260	0.923	-0.70	352	0.797	-1.97
78	0.303	-10.37	170	0.211	-13.51	262	0.891	-1.00	354	0.828	-1.64
80	0.282	-11.00	172	0.225	-12.96	264	0.860	-1.31	356	0.860	-1.31
82	0.268	-11.44	174	0.239	-12.43	266	0.828	-1.64	358	0.891	-1.00
84	0.254	-11.90	176	0.254	-11.90	268	0.797	-1.97	360	0.923	-0.70
86	0.239	-12.43	178	0.268	-11.44	270	0.765	-2.33			
88	0.225	-12.96	180	0.282	-11.00	272	0.722	-2.83			
90	0.211	-13.51	182	0.303	-10.37	274	0.679	-3.36			

Preliminary, subject to final design and review.

ELEVATION PATTERN**Type:****ALP8L4****Channel:****14****Directivity:****Numeric****dBd****Location:****Main Lobe:****9.05****9.57****Beam Tilt:****-1.00****Horizontal:****8.15****9.11****Polarization:****Horizontal***Preliminary, subject to final design and review.*

TABULATED DATA FOR ELEVATION PATTERN

Type: ALP8L4

PolarizationHorizontal

ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB
5.00	0.226	-12.92	-6.75	0.096	-20.35	-27.00	0.062	-24.15	-50.50
4.75	0.179	-14.94	-7.00	0.122	-18.27	-27.50	0.041	-27.74	-51.00
4.50	0.137	-17.27	-7.25	0.155	-16.17	-28.00	0.024	-32.40	-51.50
4.25	0.112	-19.05	-7.50	0.189	-14.47	-28.50	0.012	-38.42	-52.00
4.00	0.117	-18.64	-7.75	0.220	-13.15	-29.00	0.005	-46.02	-52.50
3.75	0.154	-16.25	-8.00	0.249	-12.08	-29.50	0.003	-50.46	-53.00
3.50	0.207	-13.68	-8.25	0.274	-11.26	-30.00	0.000	-40.00	-53.50
3.25	0.268	-11.45	-8.50	0.294	-10.63	-30.50	0.007	-43.10	-54.00
3.00	0.331	-9.60	-8.75	0.310	-10.16	-31.00	0.018	-34.89	-54.50
2.75	0.396	-8.05	-9.00	0.323	-9.82	-31.50	0.033	-29.63	-55.00
2.50	0.461	-6.73	-9.25	0.331	-9.62	-32.00	0.050	-26.02	-55.50
2.25	0.524	-5.61	-9.50	0.335	-9.50	-32.50	0.069	-23.22	-56.00
2.00	0.587	-4.63	-9.75	0.335	-9.51	-33.00	0.089	-21.01	-56.50
1.75	0.647	-3.79	-10.00	0.331	-9.60	-33.50	0.108	-19.33	-57.00
1.50	0.703	-3.06	-10.50	0.313	-10.09	-34.00	0.126	-17.99	-57.50
1.25	0.756	-2.43	-11.00	0.284	-10.93	-34.50	0.143	-16.89	-58.00
1.00	0.805	-1.88	-11.50	0.246	-12.18	-35.00	0.156	-16.14	-58.50
0.75	0.849	-1.43	-12.00	0.203	-13.85	-35.50	0.166	-15.60	-59.00
0.50	0.888	-1.03	-12.50	0.157	-16.08	-36.00	0.173	-15.24	-59.50
0.25	0.921	-0.71	-13.00	0.111	-19.09	-36.50	0.175	-15.14	-60.00
0.00	0.949	-0.45	-13.50	0.067	-23.48	-37.00	0.173	-15.24	-60.50
-0.25	0.971	-0.26	-14.00	0.030	-30.46	-37.50	0.168	-15.49	-61.00
-0.50	0.987	-0.11	-14.50	0.001	-60.00	-38.00	0.158	-16.03	-61.50
-0.75	0.996	-0.03	-15.00	0.024	-32.40	-38.50	0.146	-16.71	-62.00
-1.00	1.000	0.00	-15.50	0.037	-28.64	-39.00	0.130	-17.72	-62.50
-1.25	0.997	-0.03	-16.00	0.041	-27.74	-39.50	0.112	-19.02	-63.00
-1.50	0.988	-0.10	-16.50	0.037	-28.64	-40.00	0.093	-20.63	-63.50
-1.75	0.972	-0.25	-17.00	0.027	-31.37	-40.50	0.073	-22.73	-64.00
-2.00	0.951	-0.44	-17.50	0.021	-33.56	-41.00	0.053	-25.51	-64.50
-2.25	0.924	-0.69	-18.00	0.037	-28.64	-41.50	0.035	-29.12	-65.00
-2.50	0.891	-1.00	-18.50	0.065	-23.74	-42.00	0.022	-33.15	-65.50
-2.75	0.854	-1.37	-19.00	0.096	-20.35	-42.50	0.021	-33.56	-66.00
-3.00	0.812	-1.81	-19.50	0.128	-17.86	-43.00	0.030	-30.46	-66.50
-3.25	0.766	-2.32	-20.00	0.158	-16.03	-43.50	0.040	-27.96	-67.00
-3.50	0.715	-2.91	-20.50	0.185	-14.66	-44.00	0.049	-26.20	-67.50
-3.75	0.662	-3.58	-21.00	0.207	-13.68	-44.50	0.055	-25.19	-68.00
-4.00	0.607	-4.34	-21.50	0.224	-13.00	-45.00	0.058	-24.73	-68.50
-4.25	0.549	-5.21	-22.00	0.234	-12.62	-45.50	0.057	-24.88	-69.00
-4.50	0.490	-6.20	-22.50	0.237	-12.51	-46.00	0.054	-25.35	-69.50
-4.75	0.430	-7.33	-23.00	0.233	-12.65	-46.50	0.048	-26.38	-70.00
-5.00	0.370	-8.64	-23.50	0.223	-13.03	-47.00	0.040	-27.96	-70.50
-5.25	0.310	-10.16	-24.00	0.208	-13.64	-47.50	0.029	-30.75	-71.00
-5.50	0.253	-11.94	-24.50	0.188	-14.52	-48.00	0.016	-35.92	-71.50
-5.75	0.199	-14.04	-25.00	0.164	-15.70	-48.50	0.003	-50.46	-72.00
-6.00	0.148	-16.59	-25.50	0.139	-17.14	-49.00	0.012	-38.42	-72.50
-6.25	0.108	-19.29	-26.00	0.112	-19.02	-49.50	0.027	-31.37	-73.00
-6.50	0.088	-21.11	-26.50	0.086	-21.31	-50.00	0.042	-27.54	-73.50

Preliminary, subject to final design and review.