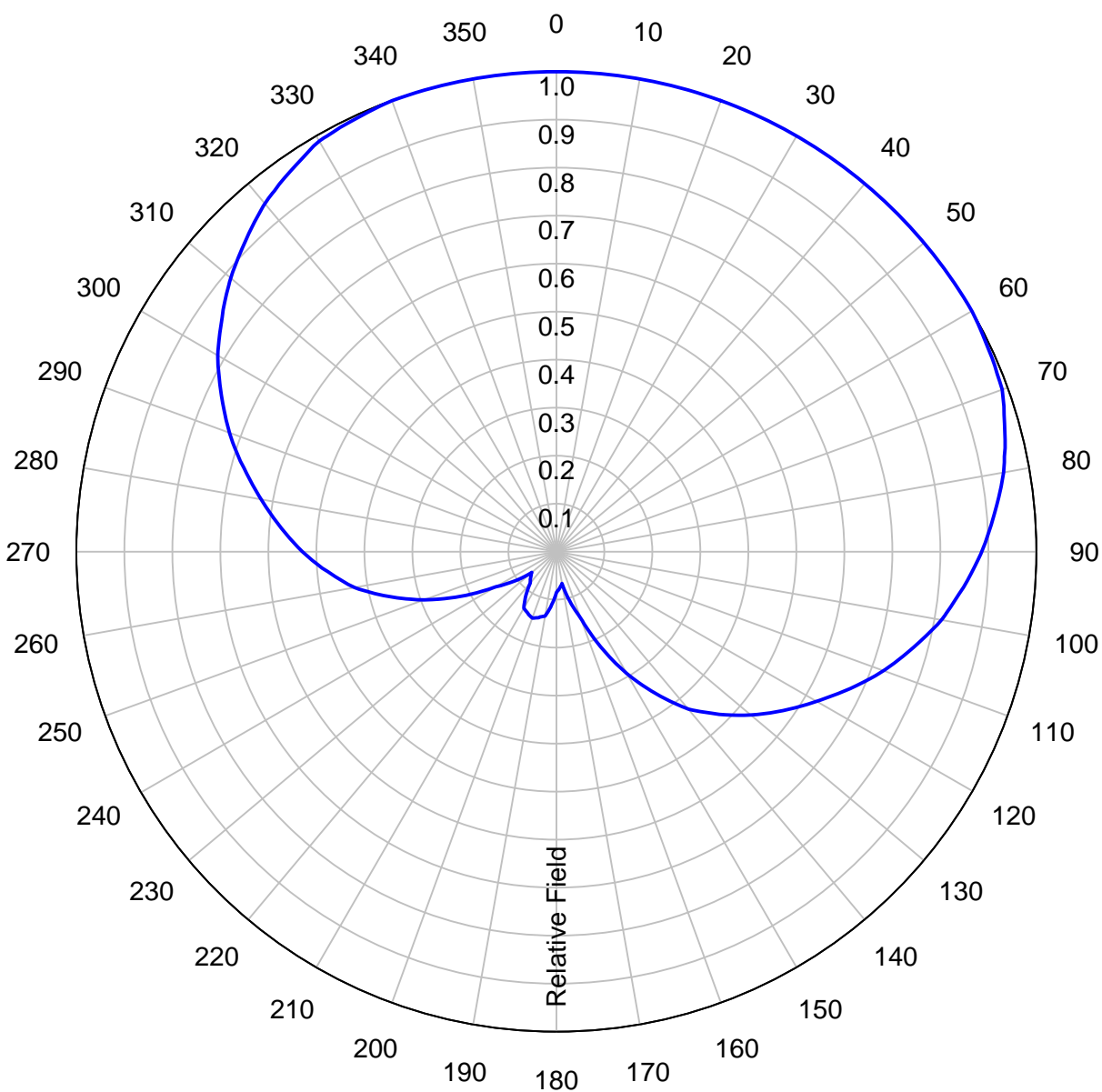


AZIMUTH PATTERN**Type:**ALP-ER**Channel:**27**Directivity:**NumericdBd**Peak(s) at:**1.932.86**Location:****Polarization:**Horizontal

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



Preliminary, subject to final design and review.

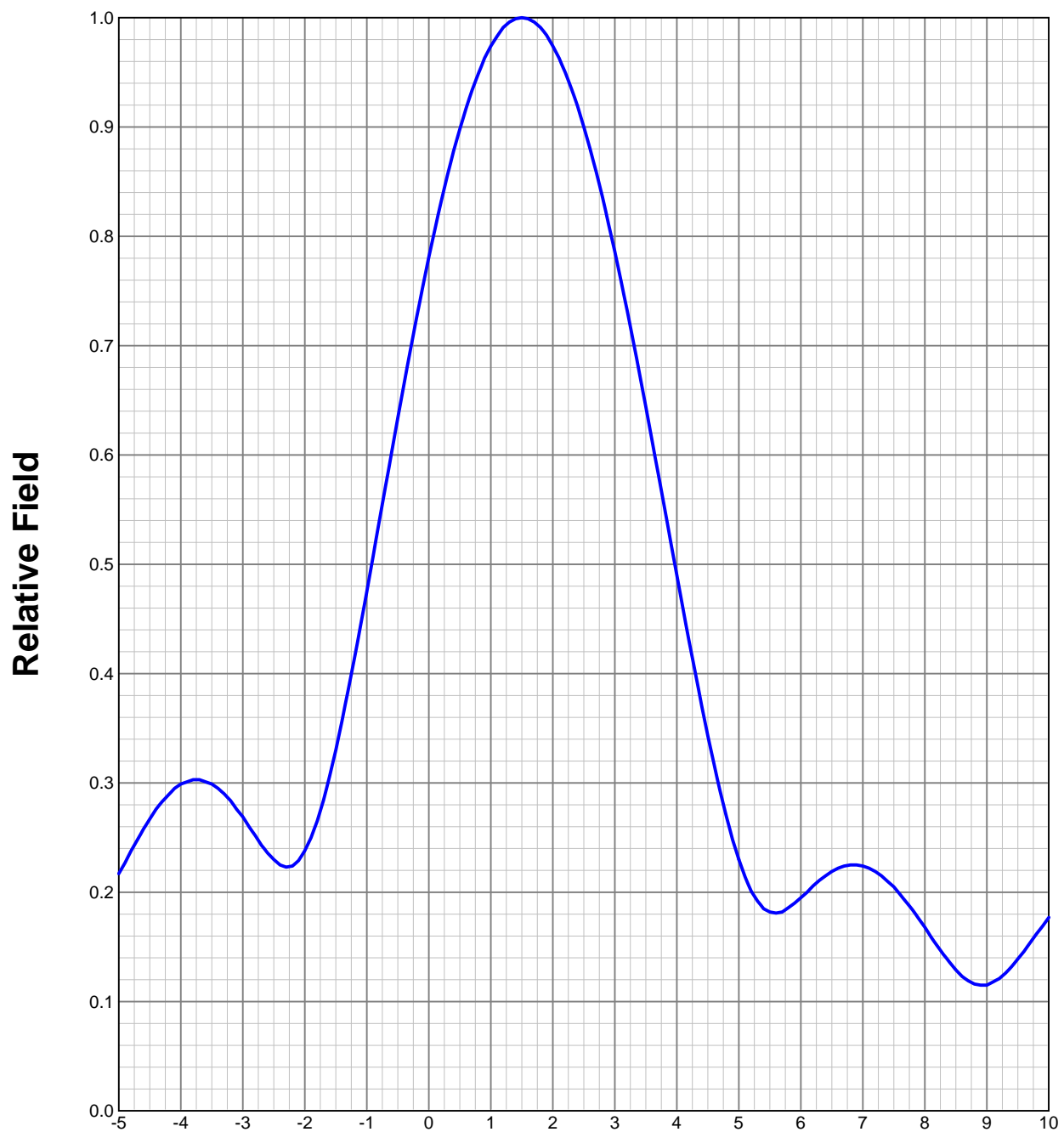
TABULATED DATA FOR AZIMUTH PATTERN

Type: ALP-ER

PolarizationHorizontal

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	1.000	0.00	92	0.872	-1.19	184	0.105	-19.58	276	0.586	-4.64
2	1.000	0.00	94	0.858	-1.33	186	0.116	-18.71	278	0.605	-4.36
4	1.000	0.00	96	0.843	-1.48	188	0.126	-17.99	280	0.624	-4.10
6	1.000	0.00	98	0.829	-1.63	190	0.136	-17.33	282	0.644	-3.82
8	1.000	0.00	100	0.815	-1.78	192	0.138	-17.20	284	0.664	-3.56
10	1.000	0.00	102	0.797	-1.97	194	0.140	-17.08	286	0.685	-3.29
12	1.000	0.00	104	0.779	-2.17	196	0.143	-16.89	288	0.705	-3.04
14	1.000	0.00	106	0.761	-2.37	198	0.145	-16.77	290	0.725	-2.79
16	1.000	0.00	108	0.743	-2.58	200	0.147	-16.65	292	0.743	-2.58
18	1.000	0.00	110	0.725	-2.79	202	0.145	-16.77	294	0.761	-2.37
20	1.000	0.00	112	0.705	-3.04	204	0.143	-16.89	296	0.779	-2.17
22	1.000	0.00	114	0.685	-3.29	206	0.140	-17.08	298	0.797	-1.97
24	1.000	0.00	116	0.664	-3.56	208	0.138	-17.20	300	0.815	-1.78
26	1.000	0.00	118	0.644	-3.82	210	0.136	-17.33	302	0.829	-1.63
28	1.000	0.00	120	0.624	-4.10	212	0.126	-17.99	304	0.843	-1.48
30	1.000	0.00	122	0.605	-4.36	214	0.116	-18.71	306	0.858	-1.33
32	1.000	0.00	124	0.586	-4.64	216	0.105	-19.58	308	0.872	-1.19
34	1.000	0.00	126	0.567	-4.93	218	0.095	-20.45	310	0.886	-1.05
36	1.000	0.00	128	0.548	-5.22	220	0.085	-21.41	312	0.898	-0.93
38	1.000	0.00	130	0.529	-5.53	222	0.081	-21.83	314	0.910	-0.82
40	1.000	0.00	132	0.509	-5.87	224	0.078	-22.16	316	0.922	-0.71
42	1.000	0.00	134	0.489	-6.21	226	0.074	-22.62	318	0.934	-0.59
44	1.000	0.00	136	0.468	-6.60	228	0.071	-22.97	320	0.946	-0.48
46	1.000	0.00	138	0.448	-6.97	230	0.067	-23.48	322	0.954	-0.41
48	1.000	0.00	140	0.428	-7.37	232	0.083	-21.62	324	0.963	-0.33
50	1.000	0.00	142	0.401	-7.94	234	0.099	-20.09	326	0.971	-0.26
52	1.000	0.00	144	0.374	-8.54	236	0.114	-18.86	328	0.980	-0.18
54	1.000	0.00	146	0.347	-9.19	238	0.130	-17.72	330	0.988	-0.10
56	1.000	0.00	148	0.320	-9.90	240	0.146	-16.71	332	0.990	-0.09
58	1.000	0.00	150	0.293	-10.66	242	0.175	-15.14	334	0.993	-0.06
60	1.000	0.00	152	0.264	-11.57	244	0.205	-13.76	336	0.995	-0.04
62	0.998	-0.02	154	0.234	-12.62	246	0.234	-12.62	338	0.998	-0.02
64	0.995	-0.04	156	0.205	-13.76	248	0.264	-11.57	340	1.000	0.00
66	0.993	-0.06	158	0.175	-15.14	250	0.293	-10.66	342	1.000	0.00
68	0.990	-0.09	160	0.146	-16.71	252	0.320	-9.90	344	1.000	0.00
70	0.988	-0.10	162	0.130	-17.72	254	0.347	-9.19	346	1.000	0.00
72	0.980	-0.18	164	0.114	-18.86	256	0.374	-8.54	348	1.000	0.00
74	0.971	-0.26	166	0.099	-20.09	258	0.401	-7.94	350	1.000	0.00
76	0.963	-0.33	168	0.083	-21.62	260	0.428	-7.37	352	1.000	0.00
78	0.954	-0.41	170	0.067	-23.48	262	0.448	-6.97	354	1.000	0.00
80	0.946	-0.48	172	0.071	-22.97	264	0.468	-6.60	356	1.000	0.00
82	0.934	-0.59	174	0.074	-22.62	266	0.489	-6.21	358	1.000	0.00
84	0.922	-0.71	176	0.078	-22.16	268	0.509	-5.87	360	1.000	0.00
86	0.910	-0.82	178	0.081	-21.83	270	0.529	-5.53			
88	0.898	-0.93	180	0.085	-21.41	272	0.548	-5.22			
90	0.886	-1.05	182	0.095	-20.45	274	0.567	-4.93			

Preliminary, subject to final design and review.

ELEVATION PATTERN**Type:****ALP12L6****Channel:****27****Directivity:****Numeric****dBd****Location:****Main Lobe:****12.64****11.02****Beam Tilt:****-1.50****Horizontal:****7.71****8.87****Polarization:****Horizontal***Preliminary, subject to final design and review.*

TABULATED DATA FOR ELEVATION PATTERN

Type: ALP12L6

PolarizationHorizontal

ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB
-5.00	0.217	-13.27	6.75	0.225	-12.98	27.00	0.066	-23.61	50.50
-4.75	0.243	-12.29	7.00	0.224	-13.00	27.50	0.042	-27.54	51.00
-4.50	0.267	-11.47	7.25	0.217	-13.27	28.00	0.024	-32.40	51.50
-4.25	0.286	-10.87	7.50	0.205	-13.76	28.50	0.014	-37.08	52.00
-4.00	0.299	-10.49	7.75	0.188	-14.54	29.00	0.009	-40.92	52.50
-3.75	0.303	-10.37	8.00	0.168	-15.49	29.50	0.005	-46.02	53.00
-3.50	0.299	-10.49	8.25	0.147	-16.65	30.00	0.000	-40.00	53.50
-3.25	0.287	-10.84	8.50	0.129	-17.79	30.50	0.007	-43.10	54.00
-3.00	0.269	-11.40	8.75	0.117	-18.60	31.00	0.013	-37.72	54.50
-2.75	0.247	-12.13	9.00	0.115	-18.79	31.50	0.017	-35.39	55.00
-2.50	0.230	-12.77	9.25	0.123	-18.17	32.00	0.019	-34.42	55.50
-2.25	0.224	-13.01	9.50	0.139	-17.14	32.50	0.021	-33.56	56.00
-2.00	0.238	-12.47	9.75	0.158	-16.03	33.00	0.028	-31.06	56.50
-1.75	0.274	-11.23	10.00	0.177	-15.04	33.50	0.042	-27.54	57.00
-1.50	0.330	-9.63	10.50	0.207	-13.68	34.00	0.063	-24.01	57.50
-1.25	0.399	-7.97	11.00	0.221	-13.11	34.50	0.087	-21.21	58.00
-1.00	0.475	-6.47	11.50	0.216	-13.31	35.00	0.113	-18.94	58.50
-0.75	0.555	-5.11	12.00	0.195	-14.20	35.50	0.138	-17.20	59.00
-0.50	0.634	-3.96	12.50	0.159	-15.97	36.00	0.160	-15.92	59.50
-0.25	0.710	-2.97	13.00	0.116	-18.71	36.50	0.177	-15.04	60.00
0.00	0.781	-2.15	13.50	0.072	-22.85	37.00	0.188	-14.52	60.50
0.25	0.844	-1.47	14.00	0.031	-30.17	37.50	0.192	-14.33	61.00
0.50	0.898	-0.93	14.50	0.001	-60.00	38.00	0.188	-14.52	61.50
0.75	0.942	-0.52	15.00	0.022	-33.15	38.50	0.178	-14.99	62.00
1.00	0.974	-0.23	15.50	0.032	-29.90	39.00	0.162	-15.81	62.50
1.25	0.994	-0.06	16.00	0.032	-29.90	39.50	0.141	-17.02	63.00
1.50	1.000	0.00	16.50	0.031	-30.17	40.00	0.118	-18.56	63.50
1.75	0.994	-0.06	17.00	0.036	-28.87	40.50	0.093	-20.63	64.00
2.00	0.974	-0.23	17.50	0.049	-26.20	41.00	0.070	-23.10	64.50
2.25	0.943	-0.51	18.00	0.062	-24.15	41.50	0.051	-25.85	65.00
2.50	0.900	-0.92	18.50	0.070	-23.10	42.00	0.040	-27.96	65.50
2.75	0.847	-1.44	19.00	0.071	-22.97	42.50	0.037	-28.64	66.00
3.00	0.786	-2.09	19.50	0.064	-23.88	43.00	0.039	-28.18	66.50
3.25	0.718	-2.88	20.00	0.057	-24.88	43.50	0.041	-27.74	67.00
3.50	0.644	-3.82	20.50	0.060	-24.44	44.00	0.041	-27.74	67.50
3.75	0.568	-4.92	21.00	0.082	-21.72	44.50	0.039	-28.18	68.00
4.00	0.490	-6.20	21.50	0.115	-18.79	45.00	0.034	-29.37	68.50
4.25	0.414	-7.65	22.00	0.149	-16.54	45.50	0.027	-31.37	69.00
4.50	0.343	-9.29	22.50	0.179	-14.94	46.00	0.020	-33.98	69.50
4.75	0.280	-11.04	23.00	0.201	-13.94	46.50	0.015	-36.48	70.00
5.00	0.230	-12.77	23.50	0.212	-13.47	47.00	0.011	-39.17	70.50
5.25	0.197	-14.13	24.00	0.213	-13.43	47.50	0.009	-40.92	71.00
5.50	0.182	-14.80	24.50	0.203	-13.85	48.00	0.006	-44.44	71.50
5.75	0.184	-14.70	25.00	0.183	-14.75	48.50	0.001	-60.00	72.00
6.00	0.195	-14.20	25.50	0.156	-16.14	49.00	0.006	-44.44	72.50
6.25	0.208	-13.62	26.00	0.126	-17.99	49.50	0.017	-35.39	73.00
6.50	0.219	-13.19	26.50	0.095	-20.45	50.00	0.030	-30.46	73.50

Preliminary, subject to final design and review.