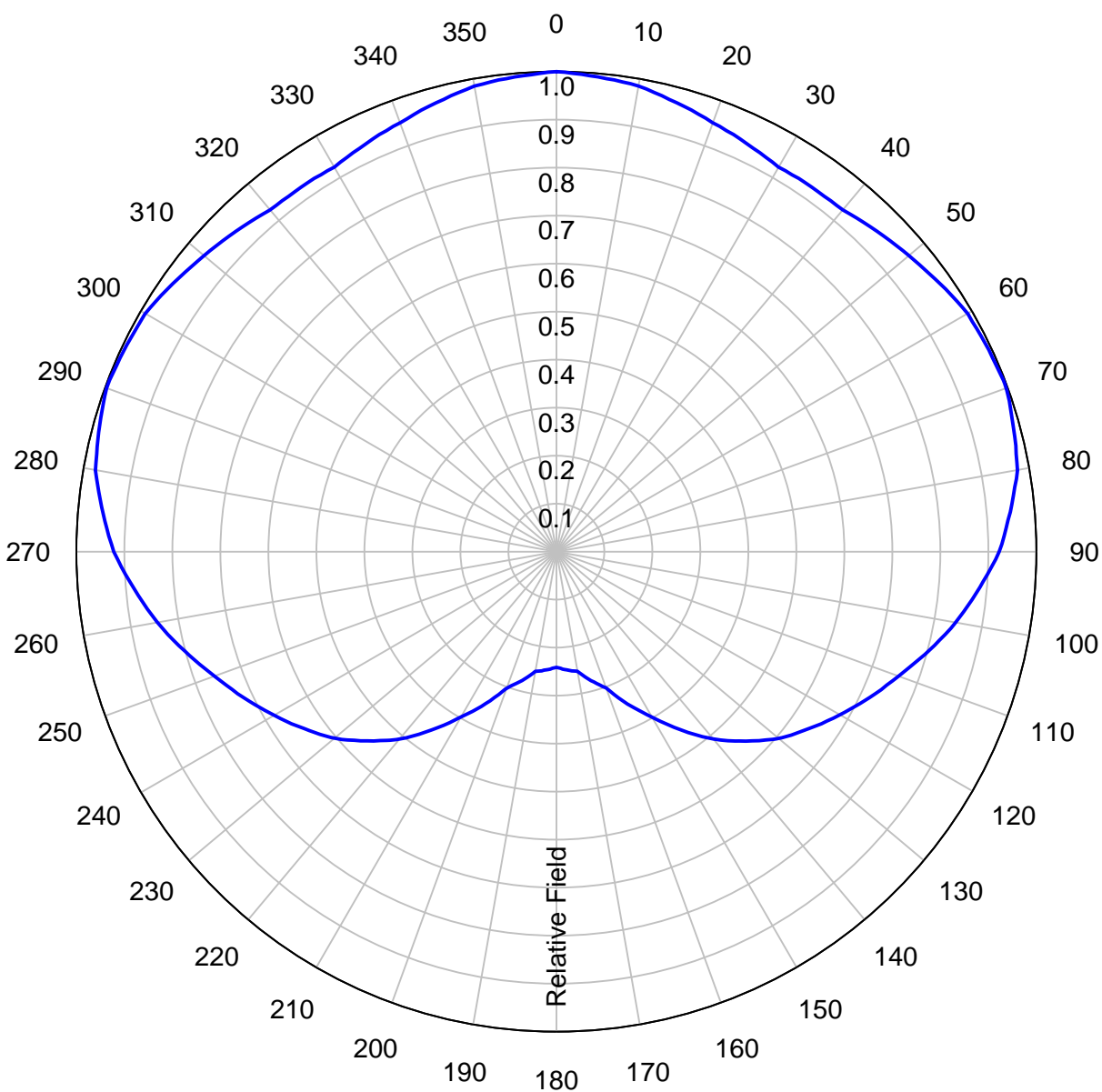


AZIMUTH PATTERN**Type:**ALP-W**Channel:**33**Directivity:**NumericdBd1.561.93**Peak(s) at:****Location:****Polarization:**Horizontal

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



Preliminary, subject to final design and review.

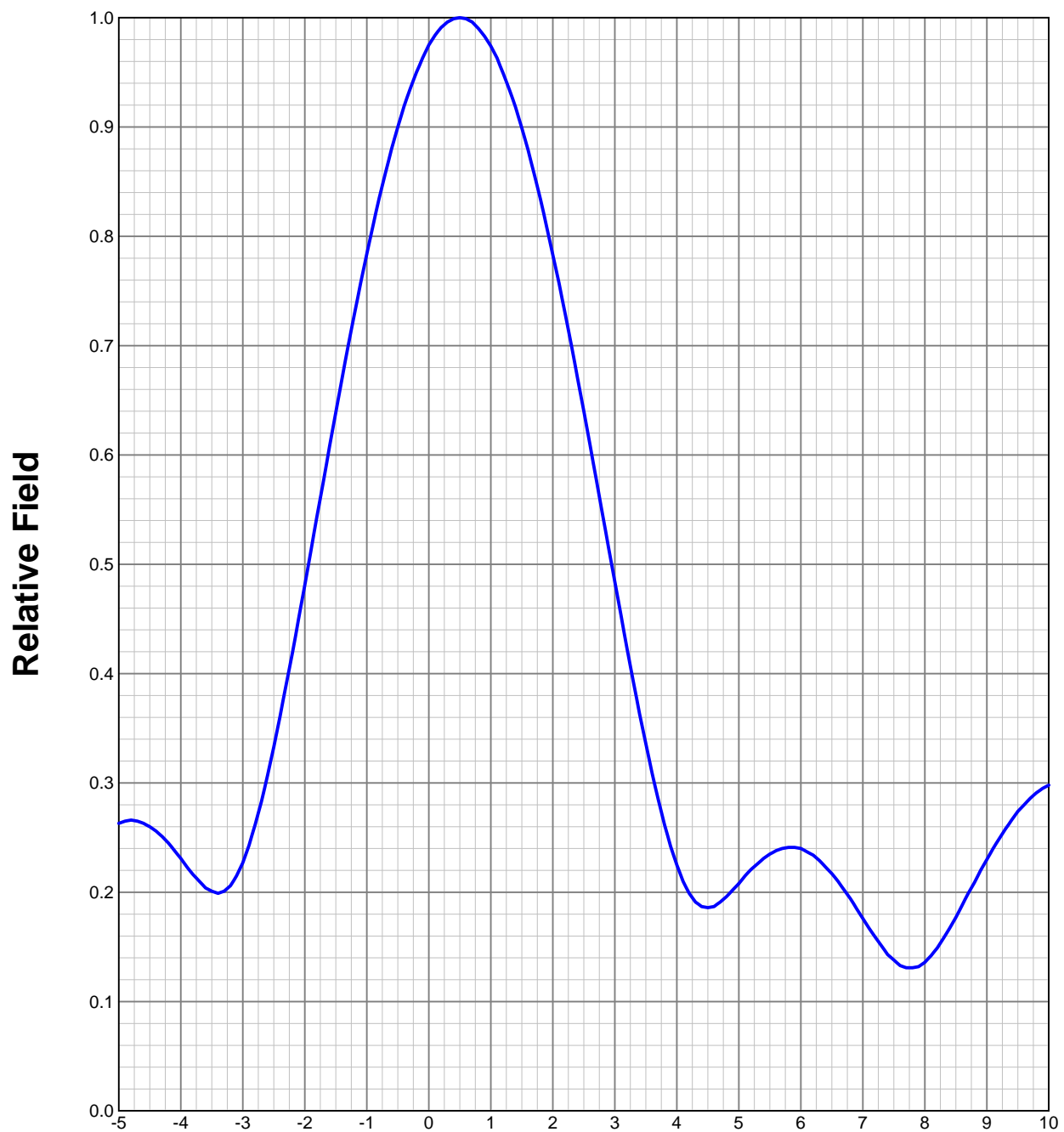
TABULATED DATA FOR AZIMUTH PATTERN

Type: ALP-W

PolarizationHorizontal

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	1.000	0.00	92	0.907	-0.85	184	0.246	-12.18	276	0.954	-0.41
2	0.997	-0.03	94	0.891	-1.00	186	0.248	-12.11	278	0.964	-0.32
4	0.994	-0.05	96	0.876	-1.15	188	0.251	-12.01	280	0.975	-0.22
6	0.991	-0.08	98	0.860	-1.31	190	0.253	-11.94	282	0.979	-0.18
8	0.988	-0.10	100	0.845	-1.46	192	0.263	-11.60	284	0.984	-0.14
10	0.985	-0.13	102	0.828	-1.64	194	0.273	-11.28	286	0.988	-0.10
12	0.978	-0.19	104	0.810	-1.83	196	0.282	-11.00	288	0.993	-0.06
14	0.971	-0.26	106	0.793	-2.01	198	0.292	-10.69	290	0.997	-0.03
16	0.965	-0.31	108	0.775	-2.21	200	0.302	-10.40	292	0.996	-0.03
18	0.958	-0.37	110	0.758	-2.41	202	0.321	-9.87	294	0.994	-0.05
20	0.951	-0.44	112	0.742	-2.59	204	0.340	-9.37	296	0.993	-0.06
22	0.946	-0.48	114	0.727	-2.77	206	0.359	-8.90	298	0.991	-0.08
24	0.941	-0.53	116	0.711	-2.96	208	0.378	-8.45	300	0.990	-0.09
26	0.935	-0.58	118	0.696	-3.15	210	0.397	-8.02	302	0.984	-0.14
28	0.930	-0.63	120	0.680	-3.35	212	0.420	-7.54	304	0.978	-0.19
30	0.925	-0.68	122	0.665	-3.54	214	0.442	-7.09	306	0.971	-0.26
32	0.926	-0.67	124	0.650	-3.74	216	0.465	-6.65	308	0.965	-0.31
34	0.927	-0.66	126	0.635	-3.94	218	0.487	-6.25	310	0.959	-0.36
36	0.927	-0.66	128	0.620	-4.15	220	0.510	-5.85	312	0.953	-0.42
38	0.928	-0.65	130	0.605	-4.36	222	0.529	-5.53	314	0.947	-0.47
40	0.929	-0.64	132	0.586	-4.64	224	0.548	-5.22	316	0.941	-0.53
42	0.935	-0.58	134	0.567	-4.93	226	0.567	-4.93	318	0.935	-0.58
44	0.941	-0.53	136	0.548	-5.22	228	0.586	-4.64	320	0.929	-0.64
46	0.947	-0.47	138	0.529	-5.53	230	0.605	-4.36	322	0.928	-0.65
48	0.953	-0.42	140	0.510	-5.85	232	0.620	-4.15	324	0.927	-0.66
50	0.959	-0.36	142	0.487	-6.25	234	0.635	-3.94	326	0.927	-0.66
52	0.965	-0.31	144	0.465	-6.65	236	0.650	-3.74	328	0.926	-0.67
54	0.971	-0.26	146	0.442	-7.09	238	0.665	-3.54	330	0.925	-0.68
56	0.978	-0.19	148	0.420	-7.54	240	0.680	-3.35	332	0.930	-0.63
58	0.984	-0.14	150	0.397	-8.02	242	0.696	-3.15	334	0.935	-0.58
60	0.990	-0.09	152	0.378	-8.45	244	0.711	-2.96	336	0.941	-0.53
62	0.991	-0.08	154	0.359	-8.90	246	0.727	-2.77	338	0.946	-0.48
64	0.993	-0.06	156	0.340	-9.37	248	0.742	-2.59	340	0.951	-0.44
66	0.994	-0.05	158	0.321	-9.87	250	0.758	-2.41	342	0.958	-0.37
68	0.996	-0.03	160	0.302	-10.40	252	0.775	-2.21	344	0.965	-0.31
70	0.997	-0.03	162	0.292	-10.69	254	0.793	-2.01	346	0.971	-0.26
72	0.993	-0.06	164	0.282	-11.00	256	0.810	-1.83	348	0.978	-0.19
74	0.988	-0.10	166	0.273	-11.28	258	0.828	-1.64	350	0.985	-0.13
76	0.984	-0.14	168	0.263	-11.60	260	0.845	-1.46	352	0.988	-0.10
78	0.979	-0.18	170	0.253	-11.94	262	0.860	-1.31	354	0.991	-0.08
80	0.975	-0.22	172	0.251	-12.01	264	0.876	-1.15	356	0.994	-0.05
82	0.964	-0.32	174	0.248	-12.11	266	0.891	-1.00	358	0.997	-0.03
84	0.954	-0.41	176	0.246	-12.18	268	0.907	-0.85	360	1.000	0.00
86	0.943	-0.51	178	0.243	-12.29	270	0.922	-0.71			
88	0.933	-0.60	180	0.241	-12.36	272	0.933	-0.60			
90	0.922	-0.71	182	0.243	-12.29	274	0.943	-0.51			

Preliminary, subject to final design and review.

ELEVATION PATTERN**Type:****ALP12L2****Channel:****33****Directivity:****Numeric****dBd****Location:****Main Lobe:****12.64****11.02****Beam Tilt:****-0.50****Horizontal:****12.02****10.80****Polarization:****Horizontal***Preliminary, subject to final design and review.*

TABULATED DATA FOR ELEVATION PATTERN

Type: ALP12L2

PolarizationHorizontal

ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB
-5.00	0.263	-11.60	6.75	0.198	-14.07	27.00	0.030	-30.46	50.50
-4.75	0.266	-11.52	7.00	0.176	-15.09	27.50	0.021	-33.56	51.00
-4.50	0.260	-11.70	7.25	0.155	-16.19	28.00	0.019	-34.42	51.50
-4.25	0.248	-12.11	7.50	0.138	-17.20	28.50	0.017	-35.39	52.00
-4.00	0.231	-12.73	7.75	0.131	-17.65	29.00	0.012	-38.42	52.50
-3.75	0.213	-13.43	8.00	0.136	-17.33	29.50	0.006	-44.44	53.00
-3.50	0.201	-13.94	8.25	0.153	-16.28	30.00	0.000	-40.00	53.50
-3.25	0.204	-13.83	8.50	0.177	-15.04	30.50	0.005	-46.02	54.00
-3.00	0.227	-12.88	8.75	0.204	-13.81	31.00	0.008	-41.94	54.50
-2.75	0.272	-11.29	9.00	0.230	-12.77	31.50	0.013	-37.72	55.00
-2.50	0.333	-9.55	9.25	0.254	-11.92	32.00	0.022	-33.15	55.50
-2.25	0.404	-7.86	9.50	0.274	-11.24	32.50	0.037	-28.64	56.00
-2.00	0.481	-6.36	9.75	0.288	-10.80	33.00	0.057	-24.88	56.50
-1.75	0.560	-5.03	10.00	0.298	-10.52	33.50	0.080	-21.94	57.00
-1.50	0.639	-3.89	10.50	0.300	-10.46	34.00	0.104	-19.66	57.50
-1.25	0.714	-2.92	11.00	0.282	-11.00	34.50	0.128	-17.86	58.00
-1.00	0.784	-2.11	11.50	0.246	-12.18	35.00	0.148	-16.59	58.50
-0.75	0.847	-1.45	12.00	0.199	-14.02	35.50	0.164	-15.70	59.00
-0.50	0.900	-0.92	12.50	0.147	-16.65	36.00	0.173	-15.24	59.50
-0.25	0.943	-0.51	13.00	0.096	-20.35	36.50	0.176	-15.09	60.00
0.00	0.975	-0.22	13.50	0.053	-25.51	37.00	0.171	-15.34	60.50
0.25	0.994	-0.06	14.00	0.020	-33.98	37.50	0.160	-15.92	61.00
0.50	1.000	0.00	14.50	0.001	-60.00	38.00	0.144	-16.83	61.50
0.75	0.993	-0.06	15.00	0.011	-39.17	38.50	0.123	-18.20	62.00
1.00	0.974	-0.23	15.50	0.015	-36.48	39.00	0.100	-20.00	62.50
1.25	0.942	-0.52	16.00	0.023	-32.77	39.50	0.076	-22.38	63.00
1.50	0.899	-0.92	16.50	0.035	-29.12	40.00	0.056	-25.04	63.50
1.75	0.845	-1.46	17.00	0.047	-26.56	40.50	0.043	-27.33	64.00
2.00	0.783	-2.12	17.50	0.055	-25.19	41.00	0.039	-28.18	64.50
2.25	0.714	-2.92	18.00	0.056	-25.04	41.50	0.042	-27.54	65.00
2.50	0.640	-3.88	18.50	0.051	-25.85	42.00	0.047	-26.56	65.50
2.75	0.562	-5.01	19.00	0.048	-26.38	42.50	0.049	-26.20	66.00
3.00	0.484	-6.30	19.50	0.059	-24.58	43.00	0.047	-26.56	66.50
3.25	0.407	-7.81	20.00	0.087	-21.21	43.50	0.043	-27.33	67.00
3.50	0.336	-9.47	20.50	0.123	-18.20	44.00	0.036	-28.87	67.50
3.75	0.273	-11.26	21.00	0.159	-15.97	44.50	0.029	-30.75	68.00
4.00	0.225	-12.96	21.50	0.192	-14.33	45.00	0.023	-32.77	68.50
4.25	0.195	-14.20	22.00	0.216	-13.31	45.50	0.020	-33.98	69.00
4.50	0.186	-14.61	22.50	0.229	-12.80	46.00	0.020	-33.98	69.50
4.75	0.194	-14.27	23.00	0.231	-12.73	46.50	0.021	-33.56	70.00
5.00	0.208	-13.64	23.50	0.221	-13.11	47.00	0.021	-33.56	70.50
5.25	0.224	-13.01	24.00	0.201	-13.94	47.50	0.018	-34.89	71.00
5.50	0.235	-12.58	24.50	0.173	-15.24	48.00	0.011	-39.17	71.50
5.75	0.240	-12.38	25.00	0.141	-17.02	48.50	0.002	-53.98	72.00
6.00	0.240	-12.40	25.50	0.107	-19.41	49.00	0.010	-40.00	72.50
6.25	0.232	-12.71	26.00	0.076	-22.38	49.50	0.024	-32.40	73.00
6.50	0.217	-13.27	26.50	0.049	-26.20	50.00	0.040	-27.96	73.50

Preliminary, subject to final design and review.