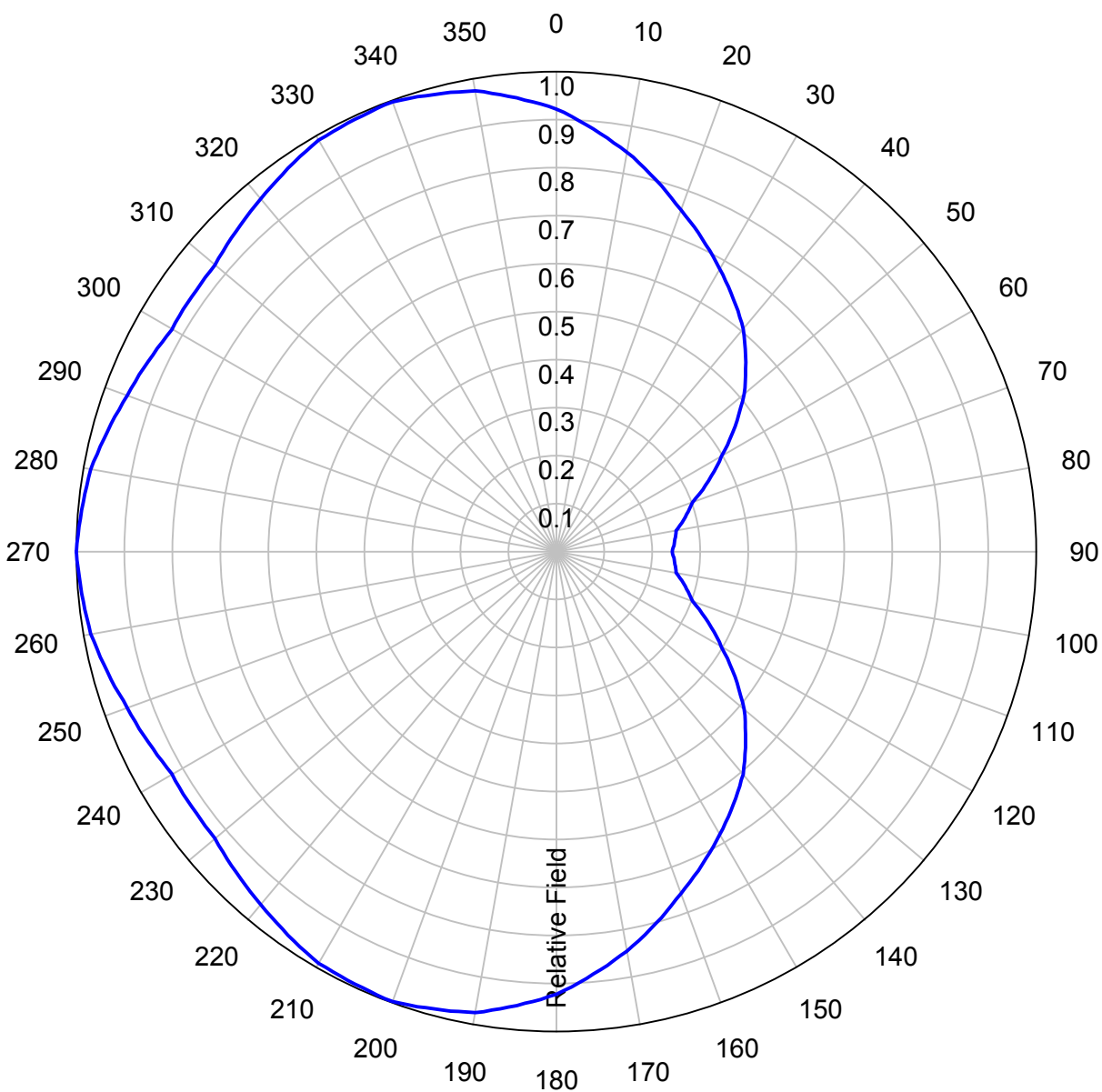


AZIMUTH PATTERN**Type:****ALP-W****Channel:****21****Directivity:****Numeric****dBd****1.56****1.93****Peak(s) at:****Location:****Polarization:****Horizontal**

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



TABULATED DATA FOR AZIMUTH PATTERN

Type: ALP-W

PolarizationHorizontal

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

TABULATED DATA FOR AZIMUTH PATTERN FCC FILING FORMAT

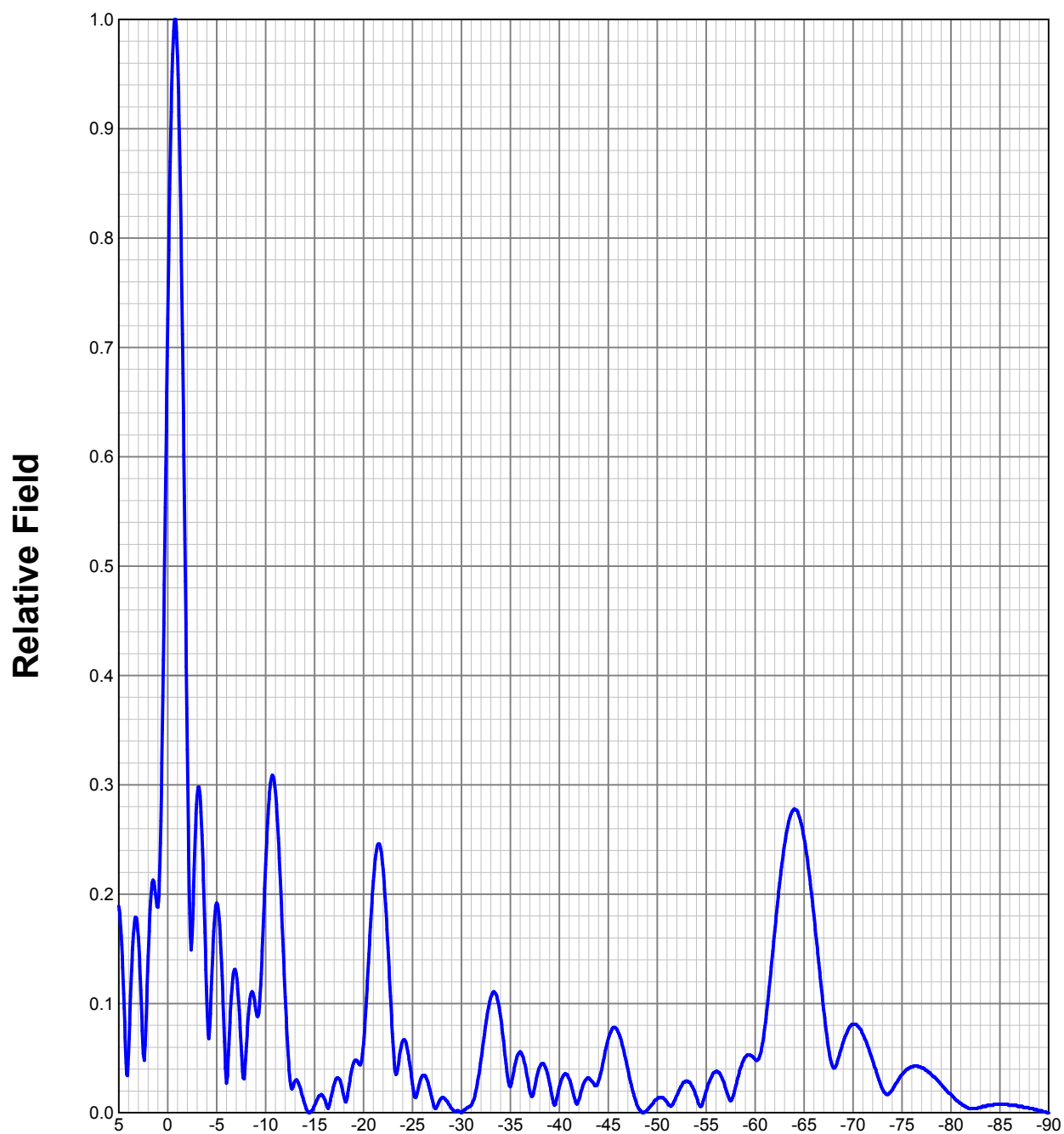
Type: ALP-W

Polarization Horizontal

ANGLE	FIELD	ERP (kW)	ERP (dBk)
0	0.922	297.529	24.735
10	0.845	249.909	23.978
20	0.758	201.097	23.034
30	0.680	161.840	22.091
40	0.605	128.109	21.076
50	0.510	91.035	19.592
60	0.397	55.163	17.416
70	0.302	31.921	15.041
80	0.253	22.403	13.503
90	0.241	20.328	13.081
100	0.253	22.403	13.503
110	0.302	31.921	15.041
120	0.397	55.163	17.416
130	0.510	91.035	19.592
140	0.605	128.109	21.076
150	0.680	161.840	22.091
160	0.758	201.097	23.034
170	0.845	249.909	23.978
180	0.922	297.529	24.735
190	0.975	332.719	25.221
200	0.997	347.903	25.415
210	0.990	343.035	25.353
220	0.959	321.888	25.077
230	0.929	302.064	24.801
240	0.925	299.469	24.764
250	0.951	316.540	25.004
260	0.985	339.579	25.309
270	1.000	350.000	25.441
280	0.985	339.579	25.309
290	0.951	316.540	25.004
300	0.925	299.469	24.764
310	0.929	302.064	24.801
320	0.959	321.888	25.077
330	0.990	343.035	25.353
340	0.997	347.903	25.415
350	0.975	332.719	25.221

ELEVATION PATTERN

Type:	ALP24M3		Channel:	21
Directivity:	Numeric	dBd	Location:	
Main Lobe:	25.21	14.02	Beam Tilt:	-0.75
Horizontal:	13.29	11.23	Polarization:	Horizontal



TABULATED DATA FOR ELEVATION PATTERN

Type: ALP24M3

Polarization: Horizontal

ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB
5.00	0.189	-14.47	-6.75	0.129	-17.79	-27.00	0.013	-37.72	-50.50
4.75	0.162	-15.81	-7.00	0.127	-17.92	-27.50	0.006	-44.44	-51.00
4.50	0.109	-19.25	-7.25	0.101	-19.91	-28.00	0.014	-37.08	-51.50
4.25	0.045	-26.84	-7.50	0.061	-24.29	-28.50	0.011	-39.17	-52.00
4.00	0.055	-25.19	-7.75	0.032	-30.03	-29.00	0.004	-47.96	-52.50
3.75	0.118	-18.53	-8.00	0.056	-25.04	-29.50	0.002	-53.98	-53.00
3.50	0.164	-15.70	-8.25	0.090	-20.87	-30.00	0.000	-40.00	-53.50
3.25	0.178	-14.97	-8.50	0.109	-19.25	-30.50	0.004	-47.96	-54.00
3.00	0.161	-15.86	-8.75	0.108	-19.33	-31.00	0.007	-43.10	-54.50
2.75	0.112	-19.02	-9.00	0.094	-20.54	-31.50	0.021	-33.56	-55.00
2.50	0.054	-25.35	-9.25	0.089	-20.96	-32.00	0.049	-26.20	-55.50
2.25	0.075	-22.50	-9.50	0.117	-18.64	-32.50	0.082	-21.72	-56.00
2.00	0.143	-16.89	-9.75	0.170	-15.37	-33.00	0.106	-19.49	-56.50
1.75	0.194	-14.27	-10.00	0.227	-12.88	-33.50	0.109	-19.25	-57.00
1.50	0.213	-13.43	-10.50	0.302	-10.40	-34.00	0.088	-21.11	-57.50
1.25	0.200	-13.98	-11.00	0.294	-10.63	-34.50	0.049	-26.20	-58.00
1.00	0.188	-14.52	-11.50	0.213	-13.43	-35.00	0.024	-32.40	-58.50
0.75	0.246	-12.16	-12.00	0.106	-19.49	-35.50	0.045	-26.94	-59.00
0.50	0.381	-8.38	-12.50	0.029	-30.75	-36.00	0.056	-25.04	-59.50
0.25	0.553	-5.14	-13.00	0.029	-30.75	-36.50	0.044	-27.13	-60.00
0.00	0.726	-2.78	-13.50	0.024	-32.40	-37.00	0.019	-34.42	-60.50
-0.25	0.870	-1.21	-14.00	0.008	-41.94	-37.50	0.024	-32.40	-61.00
-0.50	0.968	-0.28	-14.50	0.000	-40.00	-38.00	0.042	-27.54	-61.50
-0.75	1.000	0.00	-15.00	0.007	-43.10	-38.50	0.043	-27.33	-62.00
-1.00	0.966	-0.30	-15.50	0.016	-35.92	-39.00	0.027	-31.37	-62.50
-1.25	0.865	-1.26	-16.00	0.013	-37.72	-39.50	0.007	-43.10	-63.00
-1.50	0.712	-2.95	-16.50	0.007	-43.10	-40.00	0.024	-32.40	-63.50
-1.75	0.525	-5.60	-17.00	0.026	-31.70	-40.50	0.035	-29.12	-64.00
-2.00	0.332	-9.58	-17.50	0.031	-30.17	-41.00	0.031	-30.17	-64.50
-2.25	0.182	-14.77	-18.00	0.015	-36.48	-41.50	0.015	-36.48	-65.00
-2.50	0.163	-15.76	-18.50	0.024	-32.40	-42.00	0.012	-38.42	-65.50
-2.75	0.237	-12.49	-19.00	0.046	-26.74	-42.50	0.027	-31.37	-66.00
-3.00	0.290	-10.75	-19.50	0.045	-26.94	-43.00	0.032	-29.90	-66.50
-3.25	0.294	-10.63	-20.00	0.063	-24.01	-43.50	0.027	-31.37	-67.00
-3.50	0.254	-11.90	-20.50	0.137	-17.27	-44.00	0.029	-30.75	-67.50
-3.75	0.181	-14.82	-21.00	0.212	-13.47	-44.50	0.048	-26.38	-68.00
-4.00	0.100	-20.00	-21.50	0.246	-12.18	-45.00	0.068	-23.35	-68.50
-4.25	0.074	-22.62	-22.00	0.223	-13.03	-45.50	0.078	-22.16	-69.00
-4.50	0.125	-18.06	-22.50	0.151	-16.42	-46.00	0.074	-22.62	-69.50
-4.75	0.173	-15.24	-23.00	0.065	-23.74	-46.50	0.060	-24.44	-70.00
-5.00	0.192	-14.33	-23.50	0.041	-27.74	-47.00	0.040	-27.96	-70.50
-5.25	0.178	-14.99	-24.00	0.066	-23.61	-47.50	0.020	-33.98	-71.00
-5.50	0.137	-17.27	-24.50	0.057	-24.88	-48.00	0.006	-44.44	-71.50
-5.75	0.077	-22.21	-25.00	0.026	-31.70	-48.50	0.000	-40.00	-72.00
-6.00	0.027	-31.37	-25.50	0.019	-34.42	-49.00	0.003	-50.46	-72.50
-6.25	0.063	-24.01	-26.00	0.034	-29.37	-49.50	0.008	-41.94	-73.00
-6.50	0.107	-19.41	-26.50	0.030	-30.46	-50.00	0.013	-37.72	-73.50