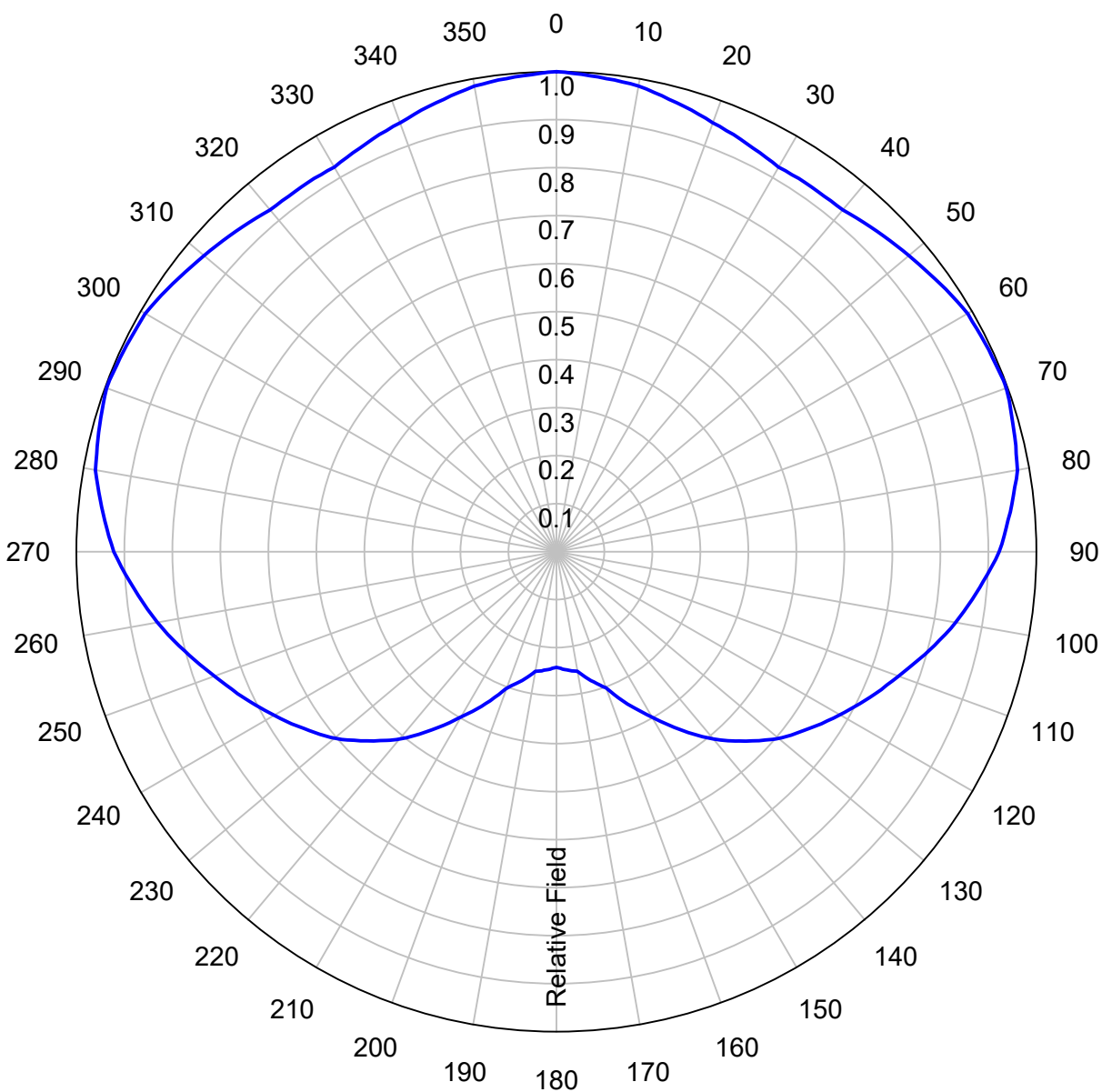


AZIMUTH PATTERN**Type:**ALP-W**Channel:**24**Directivity:**NumericdBd1.561.93**Peak(s) at:****Location:****Polarization:**Horizontal

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

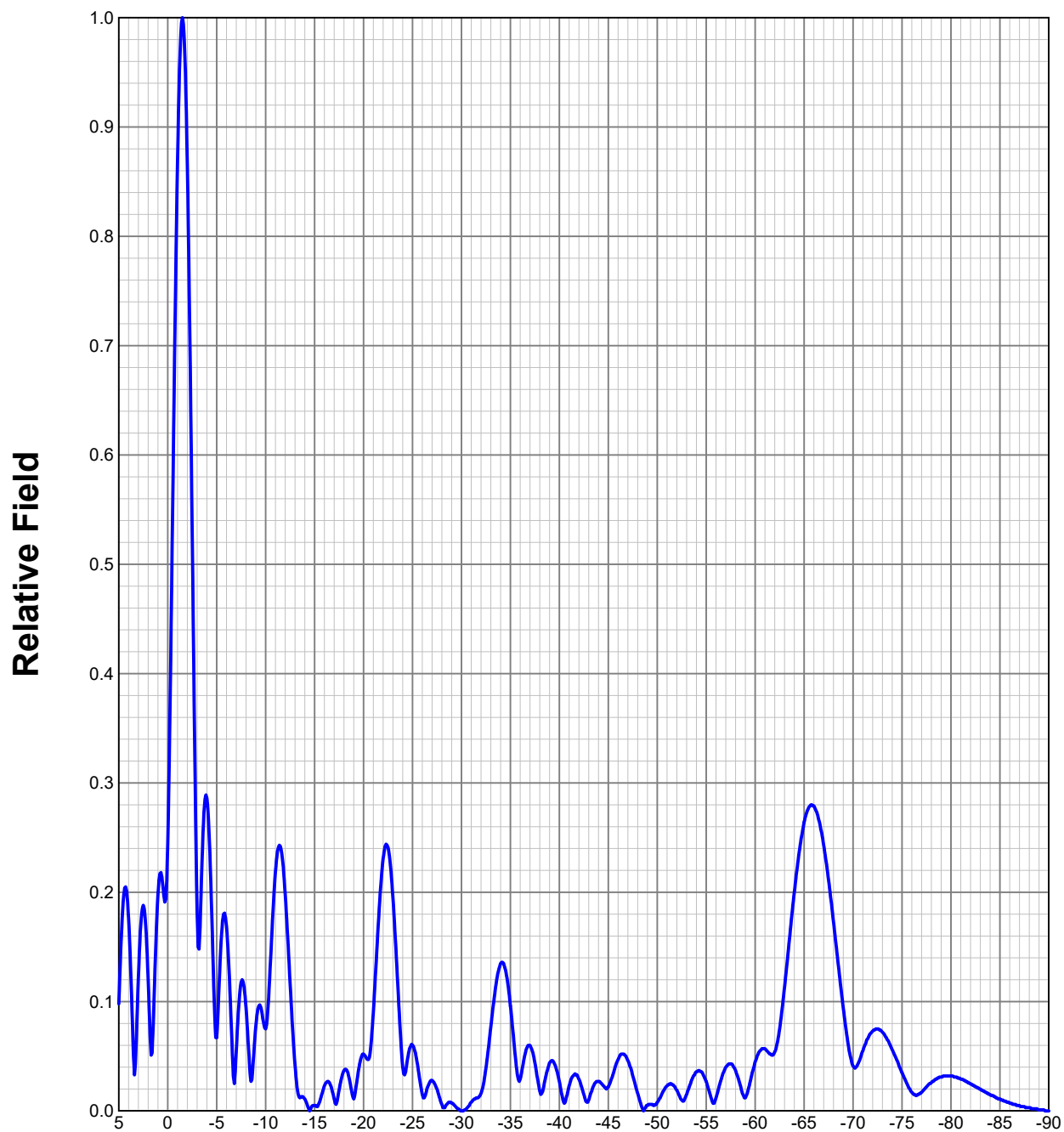
TABULATED DATA FOR AZIMUTH PATTERN FCC FILING FORMAT

Type: ALP-W

PolarizationHorizontal

ANGLE	FIELD	ERP (kW)	ERP (dBk)
0	1.000	100.000	20.000
10	0.985	97.022	19.869
20	0.951	90.440	19.564
30	0.925	85.563	19.323
40	0.929	86.304	19.360
50	0.959	91.968	19.636
60	0.990	98.010	19.913
70	0.997	99.401	19.974
80	0.975	95.063	19.780
90	0.922	85.008	19.295
100	0.845	71.402	18.537
110	0.758	57.456	17.593
120	0.680	46.240	16.650
130	0.605	36.602	15.635
140	0.510	26.010	14.151
150	0.397	15.761	11.976
160	0.302	9.120	9.600
170	0.253	6.401	8.062
180	0.241	5.808	7.640
190	0.253	6.401	8.062
200	0.302	9.120	9.600
210	0.397	15.761	11.976
220	0.510	26.010	14.151
230	0.605	36.602	15.635
240	0.680	46.240	16.650
250	0.758	57.456	17.593
260	0.845	71.402	18.537
270	0.922	85.008	19.295
280	0.975	95.063	19.780
290	0.997	99.401	19.974
300	0.990	98.010	19.913
310	0.959	91.968	19.636
320	0.929	86.304	19.360
330	0.925	85.563	19.323
340	0.951	90.440	19.564
350	0.985	97.022	19.869

Preliminary, subject to final design and review.

ELEVATION PATTERN**Type:****ALP24M6****Channel:****24****Directivity:****Numeric****dBd****Location:****Main Lobe:****25.21****14.02****Beam Tilt:****-1.50****Horizontal:****1.50****1.76****Polarization:****Horizontal**

Preliminary, subject to final design and review.

TABULATED DATA FOR ELEVATION PATTERN

Type: ALP24M6

PolarizationHorizontal

ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB
5.00	0.098	-20.18	-6.75	0.029	-30.90	-27.00	0.028	-31.06	-50.50
4.75	0.158	-16.05	-7.00	0.055	-25.19	-27.50	0.020	-33.98	-51.00
4.50	0.197	-14.11	-7.25	0.096	-20.40	-28.00	0.006	-44.44	-51.50
4.25	0.203	-13.85	-7.50	0.118	-18.56	-28.50	0.006	-44.44	-52.00
4.00	0.176	-15.09	-7.75	0.115	-18.75	-29.00	0.007	-43.10	-52.50
3.75	0.119	-18.45	-8.00	0.094	-20.54	-29.50	0.003	-50.46	-53.00
3.50	0.050	-26.02	-8.25	0.058	-24.81	-30.00	0.000	-40.00	-53.50
3.25	0.056	-25.04	-8.50	0.027	-31.37	-30.50	0.002	-53.98	-54.00
3.00	0.122	-18.27	-8.75	0.048	-26.47	-31.00	0.008	-41.94	-54.50
2.75	0.170	-15.37	-9.00	0.078	-22.16	-31.50	0.012	-38.42	-55.00
2.50	0.188	-14.52	-9.25	0.095	-20.49	-32.00	0.016	-35.92	-55.50
2.25	0.169	-15.44	-9.50	0.095	-20.45	-32.50	0.039	-28.18	-56.00
2.00	0.120	-18.42	-9.75	0.083	-21.67	-33.00	0.077	-22.27	-56.50
1.75	0.060	-24.44	-10.00	0.075	-22.50	-33.50	0.114	-18.86	-57.00
1.50	0.074	-22.62	-10.50	0.138	-17.20	-34.00	0.135	-17.39	-57.50
1.25	0.144	-16.86	-11.00	0.219	-13.19	-34.50	0.129	-17.79	-58.00
1.00	0.198	-14.07	-11.50	0.242	-12.32	-35.00	0.096	-20.35	-58.50
0.75	0.217	-13.25	-12.00	0.198	-14.07	-35.50	0.050	-26.02	-59.00
0.50	0.206	-13.72	-12.50	0.116	-18.71	-36.00	0.029	-30.75	-59.50
0.25	0.193	-14.31	-13.00	0.042	-27.54	-36.50	0.052	-25.68	-60.00
0.00	0.244	-12.25	-13.50	0.012	-38.42	-37.00	0.060	-24.44	-60.50
-0.25	0.379	-8.42	-14.00	0.011	-39.17	-37.50	0.044	-27.13	-61.00
-0.50	0.551	-5.18	-14.50	0.000	-40.00	-38.00	0.018	-34.89	-61.50
-0.75	0.724	-2.81	-15.00	0.005	-46.02	-38.50	0.027	-31.37	-62.00
-1.00	0.869	-1.22	-15.50	0.008	-41.94	-39.00	0.044	-27.13	-62.50
-1.25	0.965	-0.31	-16.00	0.023	-32.77	-39.50	0.043	-27.33	-63.00
-1.50	1.000	0.00	-16.50	0.026	-31.70	-40.00	0.027	-31.37	-63.50
-1.75	0.964	-0.32	-17.00	0.011	-39.17	-40.50	0.007	-43.10	-64.00
-2.00	0.865	-1.26	-17.50	0.019	-34.42	-41.00	0.023	-32.77	-64.50
-2.25	0.713	-2.94	-18.00	0.037	-28.64	-41.50	0.033	-29.63	-65.00
-2.50	0.527	-5.56	-18.50	0.031	-30.17	-42.00	0.029	-30.75	-65.50
-2.75	0.336	-9.47	-19.00	0.011	-39.17	-42.50	0.015	-36.48	-66.00
-3.00	0.181	-14.85	-19.50	0.038	-28.40	-43.00	0.010	-40.00	-66.50
-3.25	0.158	-16.03	-20.00	0.052	-25.68	-43.50	0.023	-32.77	-67.00
-3.50	0.228	-12.84	-20.50	0.047	-26.56	-44.00	0.027	-31.37	-67.50
-3.75	0.279	-11.09	-21.00	0.090	-20.92	-44.50	0.023	-32.77	-68.00
-4.00	0.286	-10.87	-21.50	0.170	-15.39	-45.00	0.022	-33.15	-68.50
-4.25	0.247	-12.13	-22.00	0.231	-12.73	-45.50	0.034	-29.37	-69.00
-4.50	0.179	-14.94	-22.50	0.241	-12.36	-46.00	0.047	-26.56	-69.50
-4.75	0.100	-20.00	-23.00	0.195	-14.20	-46.50	0.052	-25.68	-70.00
-5.00	0.067	-23.48	-23.50	0.115	-18.79	-47.00	0.046	-26.74	-70.50
-5.25	0.116	-18.71	-24.00	0.040	-27.96	-47.50	0.032	-29.90	-71.00
-5.50	0.162	-15.81	-24.50	0.048	-26.38	-48.00	0.016	-35.92	-71.50
-5.75	0.180	-14.87	-25.00	0.060	-24.44	-48.50	0.002	-53.98	-72.00
-6.00	0.169	-15.44	-25.50	0.043	-27.33	-49.00	0.005	-46.02	-72.50
-6.25	0.131	-17.69	-26.00	0.015	-36.48	-49.50	0.006	-44.44	-73.00
-6.50	0.076	-22.38	-26.50	0.021	-33.56	-50.00	0.008	-41.94	-73.50

Preliminary, subject to final design and review.