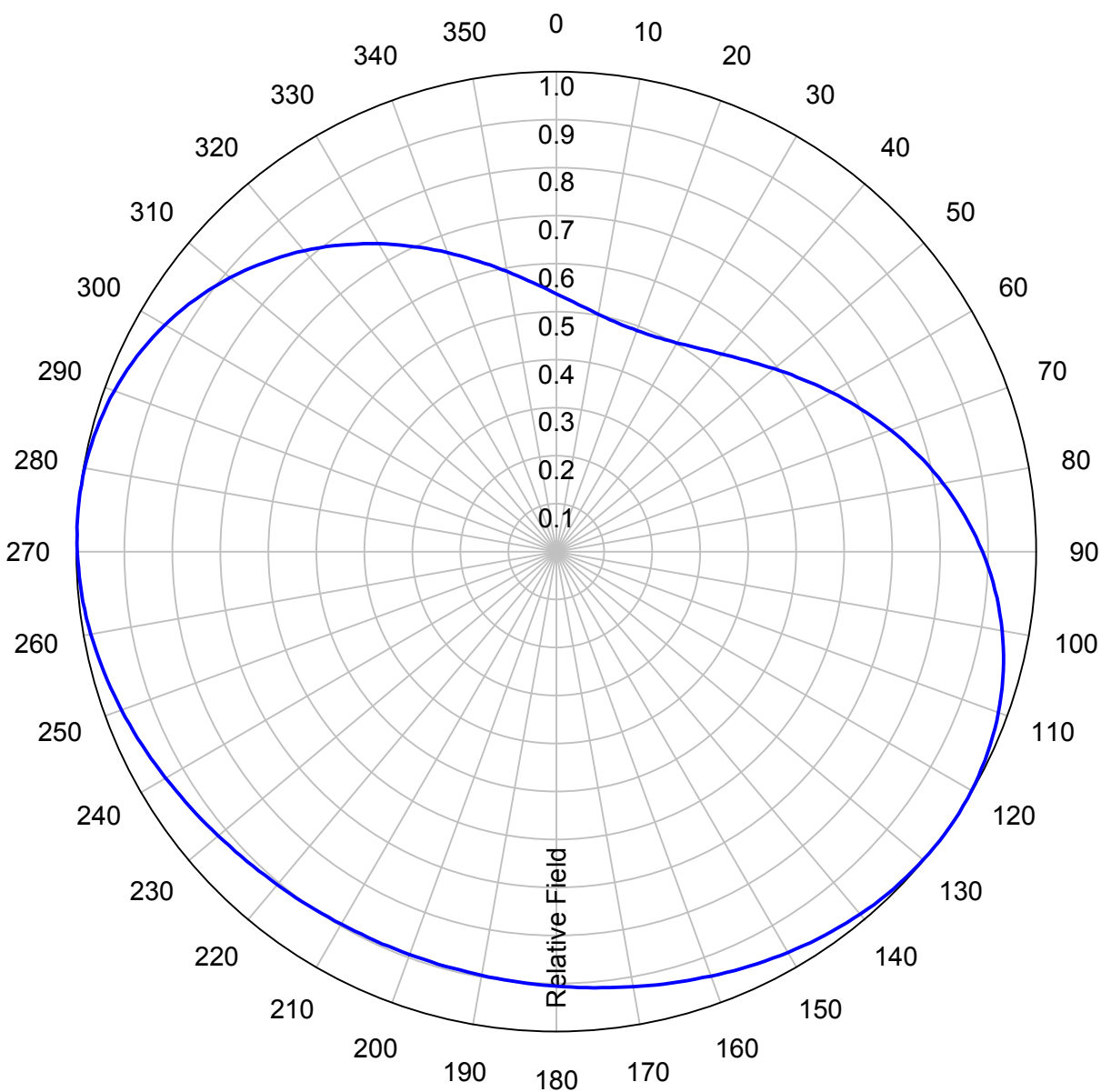


AZIMUTH PATTERN**Type:****ATW-WC****Channel:****40****Directivity:****Numeric****dBd****1.40****1.46****Peak(s) at:****Location:****Polarization:****Horizontal**

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



TABULATED DATA FOR AZIMUTH PATTERN

Type:ATW-WC

PolarizationHorizontal

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	0.537	-5.40	92	0.900	-0.92	184	0.901	-0.91	276	1.000	0.00
2	0.529	-5.53	94	0.912	-0.80	186	0.899	-0.92	278	0.999	-0.01
4	0.521	-5.66	96	0.923	-0.70	188	0.897	-0.94	280	0.998	-0.02
6	0.514	-5.78	98	0.933	-0.60	190	0.896	-0.95	282	0.996	-0.03
8	0.508	-5.88	100	0.943	-0.51	192	0.895	-0.96	284	0.993	-0.06
10	0.502	-5.99	102	0.952	-0.43	194	0.894	-0.97	286	0.989	-0.10
12	0.498	-6.06	104	0.960	-0.35	196	0.894	-0.97	288	0.985	-0.13
14	0.495	-6.11	106	0.967	-0.29	198	0.893	-0.98	290	0.980	-0.18
16	0.492	-6.16	108	0.974	-0.23	200	0.893	-0.98	292	0.974	-0.23
18	0.491	-6.18	110	0.980	-0.18	202	0.893	-0.98	294	0.967	-0.29
20	0.490	-6.20	112	0.985	-0.13	204	0.894	-0.97	296	0.960	-0.35
22	0.491	-6.18	114	0.989	-0.10	206	0.894	-0.97	298	0.952	-0.43
24	0.492	-6.16	116	0.993	-0.06	208	0.895	-0.96	300	0.943	-0.51
26	0.495	-6.11	118	0.996	-0.03	210	0.896	-0.95	302	0.933	-0.60
28	0.498	-6.06	120	0.998	-0.02	212	0.897	-0.94	304	0.923	-0.70
30	0.502	-5.99	122	0.999	-0.01	214	0.899	-0.92	306	0.912	-0.80
32	0.508	-5.88	124	1.000	0.00	216	0.901	-0.91	308	0.900	-0.92
34	0.514	-5.78	126	1.000	0.00	218	0.903	-0.89	310	0.888	-1.03
36	0.521	-5.66	128	0.999	-0.01	220	0.905	-0.87	312	0.875	-1.16
38	0.529	-5.53	130	0.998	-0.02	222	0.907	-0.85	314	0.861	-1.30
40	0.537	-5.40	132	0.996	-0.03	224	0.910	-0.82	316	0.847	-1.44
42	0.547	-5.24	134	0.994	-0.05	226	0.913	-0.79	318	0.833	-1.59
44	0.557	-5.08	136	0.992	-0.07	228	0.916	-0.76	320	0.818	-1.74
46	0.568	-4.91	138	0.989	-0.10	230	0.920	-0.72	322	0.803	-1.91
48	0.580	-4.73	140	0.985	-0.13	232	0.924	-0.69	324	0.788	-2.07
50	0.593	-4.54	142	0.981	-0.17	234	0.928	-0.65	326	0.772	-2.25
52	0.606	-4.35	144	0.977	-0.20	236	0.932	-0.61	328	0.757	-2.42
54	0.619	-4.17	146	0.973	-0.24	238	0.936	-0.57	330	0.741	-2.60
56	0.633	-3.97	148	0.968	-0.28	240	0.941	-0.53	332	0.725	-2.79
58	0.648	-3.77	150	0.964	-0.32	242	0.945	-0.49	334	0.709	-2.99
60	0.663	-3.57	152	0.959	-0.36	244	0.950	-0.45	336	0.694	-3.17
62	0.678	-3.38	154	0.955	-0.40	246	0.955	-0.40	338	0.678	-3.38
64	0.694	-3.17	156	0.950	-0.45	248	0.959	-0.36	340	0.663	-3.57
66	0.709	-2.99	158	0.945	-0.49	250	0.964	-0.32	342	0.648	-3.77
68	0.725	-2.79	160	0.941	-0.53	252	0.968	-0.28	344	0.633	-3.97
70	0.741	-2.60	162	0.936	-0.57	254	0.973	-0.24	346	0.619	-4.17
72	0.757	-2.42	164	0.932	-0.61	256	0.977	-0.20	348	0.606	-4.35
74	0.772	-2.25	166	0.928	-0.65	258	0.981	-0.17	350	0.593	-4.54
76	0.788	-2.07	168	0.924	-0.69	260	0.985	-0.13	352	0.580	-4.73
78	0.803	-1.91	170	0.920	-0.72	262	0.989	-0.10	354	0.568	-4.91
80	0.818	-1.74	172	0.916	-0.76	264	0.992	-0.07	356	0.557	-5.08
82	0.833	-1.59	174	0.913	-0.79	266	0.994	-0.05	358	0.547	-5.24
84	0.847	-1.44	176	0.910	-0.82	268	0.996	-0.03	360	0.537	-5.40
86	0.861	-1.30	178	0.907	-0.85	270	0.998	-0.02			
88	0.875	-1.16	180	0.905	-0.87	272	0.999	-0.01			
90	0.888	-1.03	182	0.903	-0.89	274	1.000	0.00			

TABULATED DATA FOR AZIMUTH PATTERN FCC FILING FORMAT

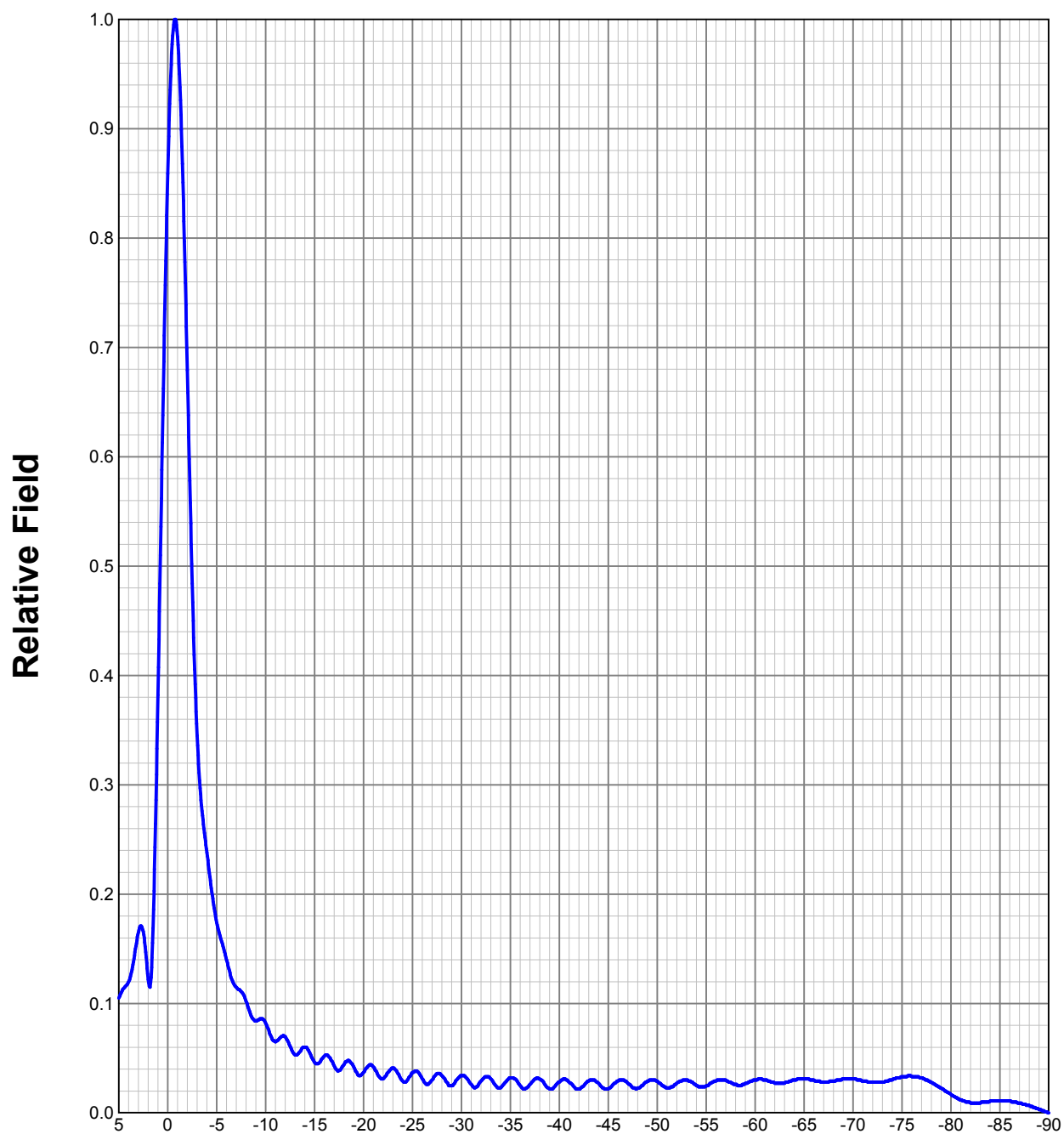
Type:ATW-WC

PolarizationHorizontal

ANGLE	FIELD	ERP (kW)	ERP (dBk)
0	0.537	273.951	24.377
10	0.502	239.404	23.791
20	0.490	228.095	23.581
30	0.502	239.404	23.791
40	0.537	273.951	24.377
50	0.593	334.067	25.238
60	0.663	417.591	26.208
70	0.741	521.627	27.174
80	0.818	635.668	28.032
90	0.888	749.117	28.745
100	0.943	844.787	29.267
110	0.980	912.380	29.602
120	0.998	946.204	29.760
130	0.998	946.204	29.760
140	0.985	921.714	29.646
150	0.964	882.831	29.459
160	0.941	841.207	29.249
170	0.920	804.080	29.053
180	0.905	778.074	28.910
190	0.896	762.675	28.823
200	0.893	757.577	28.794
210	0.896	762.675	28.823
220	0.905	778.074	28.910
230	0.920	804.080	29.053
240	0.941	841.207	29.249
250	0.964	882.831	29.459
260	0.985	921.714	29.646
270	0.998	946.204	29.760
280	0.998	946.204	29.760
290	0.980	912.380	29.602
300	0.943	844.787	29.267
310	0.888	749.117	28.745
320	0.818	635.668	28.032
330	0.741	521.627	27.174
340	0.663	417.591	26.208
350	0.593	334.067	25.238

ELEVATION PATTERN

Type:	ATW25HS3H		Channel:	40
Directivity:	Numeric	dBd	Location:	
Main Lobe:	25.00	13.98	Beam Tilt:	-0.75
Horizontal:	18.45	12.66	Polarization:	Horizontal



TABULATED DATA FOR ELEVATION PATTERN

Type: ATW25HS3H

Polarization: Horizontal

ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB
5.00	0.105	-19.58	-6.75	0.118	-18.56	-27.00	0.030	-30.46	-50.50
4.75	0.110	-19.17	-7.00	0.115	-18.79	-27.50	0.036	-28.87	-51.00
4.50	0.114	-18.86	-7.25	0.113	-18.94	-28.00	0.034	-29.37	-51.50
4.25	0.117	-18.67	-7.50	0.111	-19.09	-28.50	0.028	-31.06	-52.00
4.00	0.120	-18.42	-7.75	0.108	-19.33	-29.00	0.025	-32.04	-52.50
3.75	0.127	-17.92	-8.00	0.102	-19.83	-29.50	0.030	-30.46	-53.00
3.50	0.138	-17.20	-8.25	0.096	-20.40	-30.00	0.034	-29.37	-53.50
3.25	0.152	-16.33	-8.50	0.089	-21.01	-30.50	0.032	-29.90	-54.00
3.00	0.165	-15.65	-8.75	0.085	-21.36	-31.00	0.026	-31.70	-54.50
2.75	0.171	-15.34	-9.00	0.084	-21.51	-31.50	0.024	-32.40	-55.00
2.50	0.166	-15.60	-9.25	0.085	-21.41	-32.00	0.029	-30.75	-55.50
2.25	0.147	-16.65	-9.50	0.086	-21.31	-32.50	0.033	-29.63	-56.00
2.00	0.122	-18.27	-9.75	0.085	-21.36	-33.00	0.031	-30.17	-56.50
1.75	0.119	-18.45	-10.00	0.082	-21.72	-33.50	0.025	-32.04	-57.00
1.50	0.169	-15.44	-10.50	0.071	-22.97	-34.00	0.023	-32.77	-57.50
1.25	0.264	-11.55	-11.00	0.065	-23.74	-34.50	0.028	-31.06	-58.00
1.00	0.382	-8.36	-11.50	0.069	-23.22	-35.00	0.032	-29.90	-58.50
0.75	0.510	-5.85	-12.00	0.070	-23.10	-35.50	0.031	-30.17	-59.00
0.50	0.638	-3.90	-12.50	0.061	-24.29	-36.00	0.025	-32.04	-59.50
0.25	0.757	-2.42	-13.00	0.053	-25.51	-36.50	0.022	-33.15	-60.00
0.00	0.859	-1.32	-13.50	0.056	-25.04	-37.00	0.026	-31.70	-60.50
-0.25	0.935	-0.58	-14.00	0.060	-24.44	-37.50	0.031	-30.17	-61.00
-0.50	0.985	-0.13	-14.50	0.055	-25.19	-38.00	0.031	-30.17	-61.50
-0.75	1.000	0.00	-15.00	0.046	-26.74	-38.50	0.026	-31.70	-62.00
-1.00	0.984	-0.14	-15.50	0.046	-26.74	-39.00	0.022	-33.15	-62.50
-1.25	0.938	-0.56	-16.00	0.052	-25.68	-39.50	0.024	-32.40	-63.00
-1.50	0.868	-1.23	-16.50	0.051	-25.85	-40.00	0.028	-31.06	-63.50
-1.75	0.778	-2.18	-17.00	0.043	-27.33	-40.50	0.031	-30.17	-64.00
-2.00	0.679	-3.36	-17.50	0.039	-28.18	-41.00	0.028	-31.06	-64.50
-2.25	0.578	-4.76	-18.00	0.044	-27.13	-41.50	0.024	-32.40	-65.00
-2.50	0.484	-6.30	-18.50	0.048	-26.38	-42.00	0.022	-33.15	-65.50
-2.75	0.405	-7.84	-19.00	0.042	-27.54	-42.50	0.025	-32.04	-66.00
-3.00	0.345	-9.24	-19.50	0.034	-29.37	-43.00	0.029	-30.75	-66.50
-3.25	0.304	-10.34	-20.00	0.037	-28.64	-43.50	0.030	-30.46	-67.00
-3.50	0.276	-11.18	-20.50	0.043	-27.33	-44.00	0.027	-31.37	-67.50
-3.75	0.256	-11.84	-21.00	0.042	-27.54	-44.50	0.023	-32.77	-68.00
-4.00	0.238	-12.47	-21.50	0.034	-29.37	-45.00	0.022	-33.15	-68.50
-4.25	0.220	-13.17	-22.00	0.031	-30.17	-45.50	0.026	-31.70	-69.00
-4.50	0.202	-13.89	-22.50	0.037	-28.64	-46.00	0.029	-30.75	-69.50
-4.75	0.187	-14.56	-23.00	0.041	-27.74	-46.50	0.030	-30.46	-70.00
-5.00	0.174	-15.19	-23.50	0.036	-28.87	-47.00	0.027	-31.37	-70.50
-5.25	0.165	-15.65	-24.00	0.029	-30.75	-47.50	0.023	-32.77	-71.00
-5.50	0.157	-16.08	-24.50	0.030	-30.46	-48.00	0.023	-32.77	-71.50
-5.75	0.149	-16.54	-25.00	0.037	-28.64	-48.50	0.025	-32.04	-72.00
-6.00	0.140	-17.08	-25.50	0.038	-28.40	-49.00	0.029	-30.75	-72.50
-6.25	0.132	-17.62	-26.00	0.031	-30.17	-49.50	0.030	-30.46	-73.00
-6.50	0.123	-18.20	-26.50	0.026	-31.70	-50.00	0.029	-30.75	-73.50