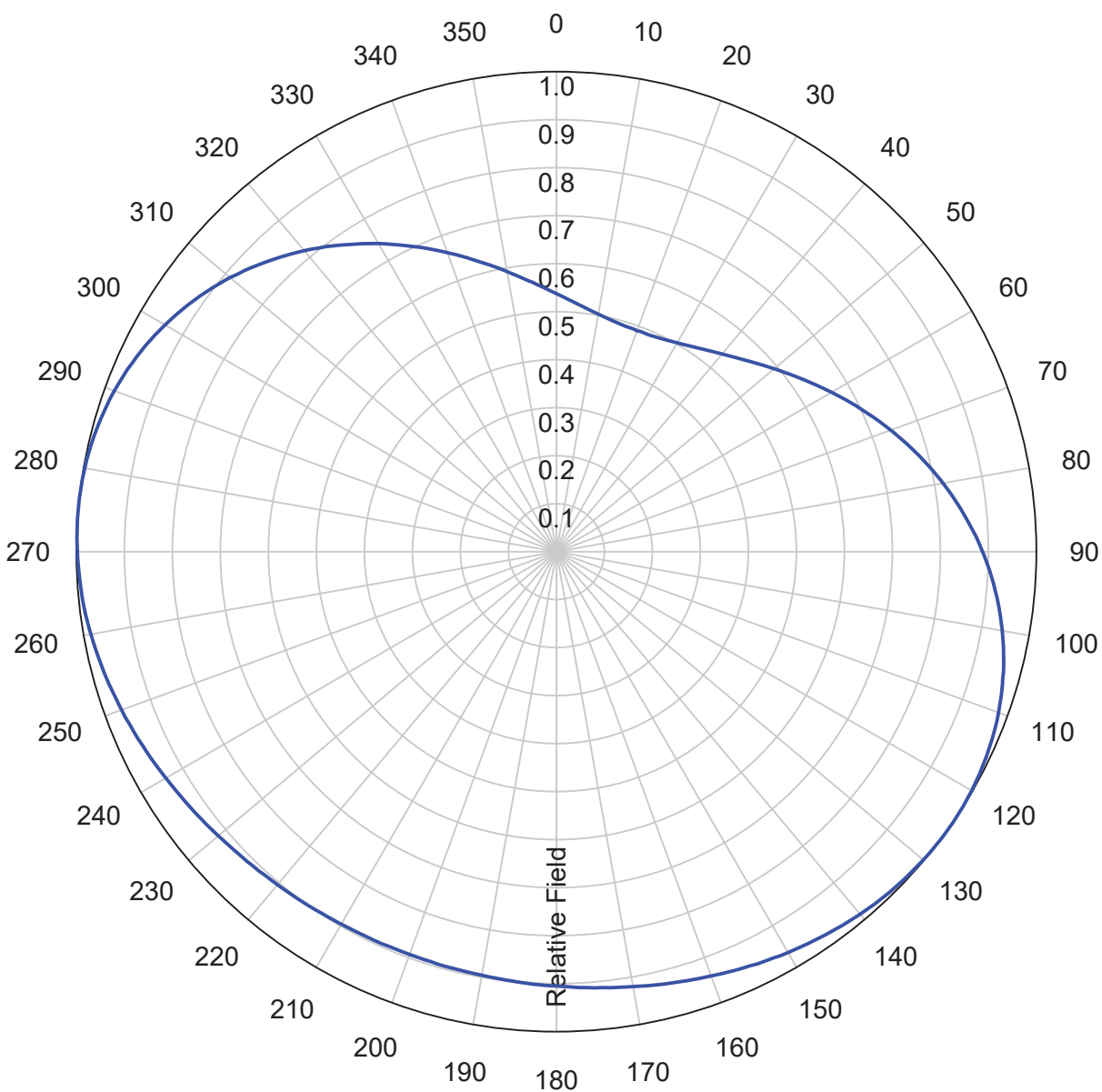


AZIMUTH PATTERN**Type:**ATW-WC**Channel:**14**Directivity:**NumericdBd**Peak(s) at:**1.401.46**Location:****Polarization:**Horizontal

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



Preliminary, subject to final design and review.

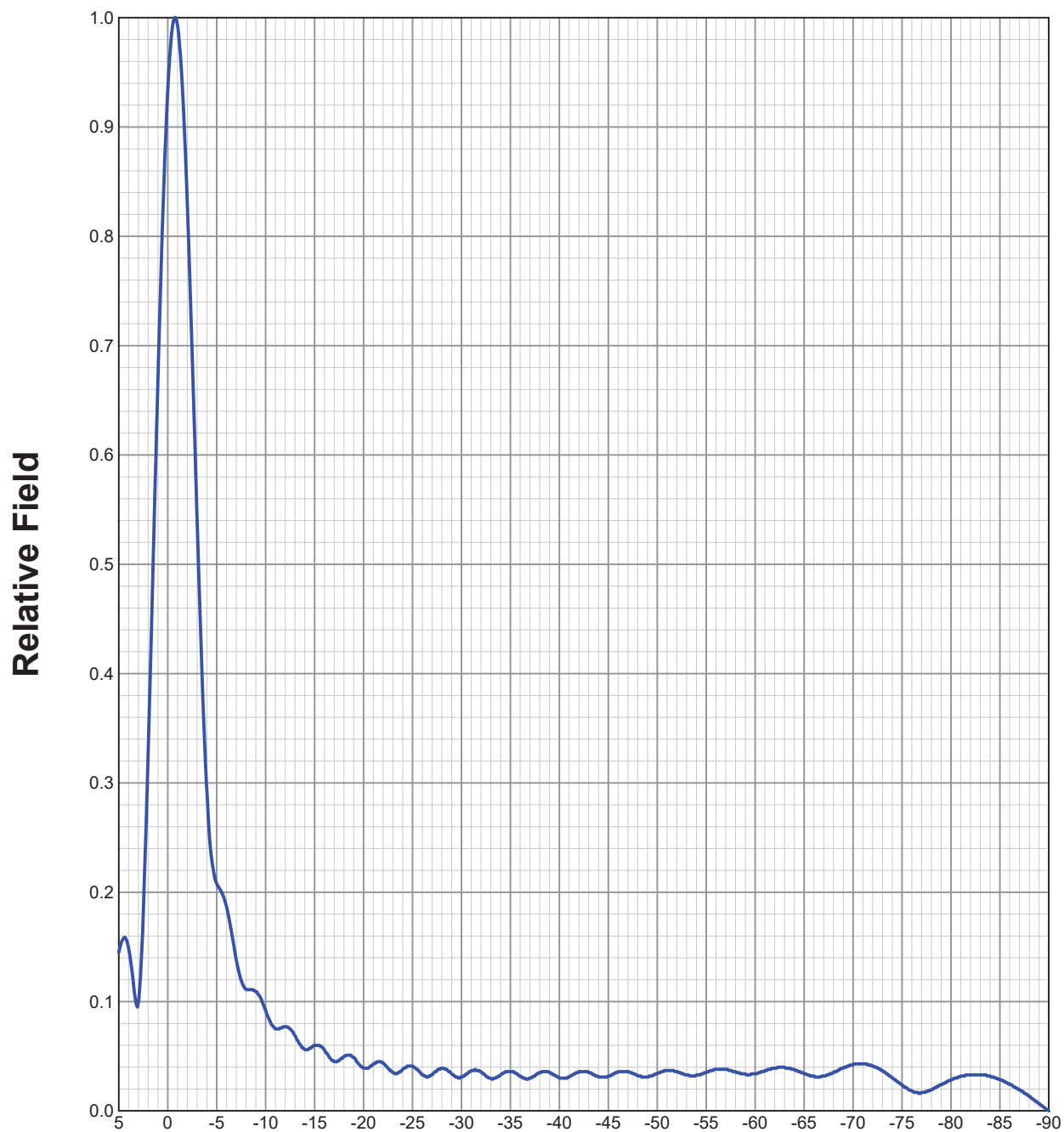
TABULATED DATA FOR AZIMUTH PATTERN

Type: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			

Preliminary, subject to final design and review.

ELEVATION PATTERN**Type:****ATW18HS3H****Channel:****14****Directivity:****Numeric****dBd****Location:****Main Lobe:****18.00****12.55****Beam Tilt:****-0.75****Horizontal:****15.67****11.95****Polarization:****Horizontal***Preliminary, subject to final design and review.*

TABULATED DATA FOR ELEVATION PATTERN

Type: ATW18HS3H

PolarizationHorizontal

ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB	ANGLEFIELD	dB
5.00	0.145	-16.77	-6.75	0.151	-16.39	-27.00	0.033	-29.63	-50.50
4.75	0.154	-16.25	-7.00	0.138	-17.20	-27.50	0.037	-28.64	-51.00
4.50	0.158	-16.03	-7.25	0.128	-17.89	-28.00	0.039	-28.18	-51.50
4.25	0.157	-16.08	-7.50	0.119	-18.49	-28.50	0.038	-28.40	-52.00
4.00	0.149	-16.54	-7.75	0.114	-18.86	-29.00	0.034	-29.37	-52.50
3.75	0.135	-17.43	-8.00	0.111	-19.09	-29.50	0.031	-30.17	-53.00
3.50	0.116	-18.71	-8.25	0.111	-19.09	-30.00	0.031	-30.17	-53.50
3.25	0.099	-20.09	-8.50	0.111	-19.09	-30.50	0.034	-29.37	-54.00
3.00	0.099	-20.09	-8.75	0.111	-19.13	-31.00	0.037	-28.64	-54.50
2.75	0.129	-17.82	-9.00	0.109	-19.25	-31.50	0.037	-28.64	-55.00
2.50	0.181	-14.85	-9.25	0.106	-19.45	-32.00	0.036	-28.87	-55.50
2.25	0.250	-12.04	-9.50	0.103	-19.74	-32.50	0.032	-29.90	-56.00
2.00	0.328	-9.68	-9.75	0.098	-20.22	-33.00	0.030	-30.46	-56.50
1.75	0.412	-7.70	-10.00	0.092	-20.72	-33.50	0.030	-30.46	-57.00
1.50	0.499	-6.04	-10.50	0.081	-21.83	-34.00	0.033	-29.63	-57.50
1.25	0.585	-4.65	-11.00	0.075	-22.50	-34.50	0.036	-28.87	-58.00
1.00	0.670	-3.48	-11.50	0.076	-22.38	-35.00	0.036	-28.87	-58.50
0.75	0.750	-2.50	-12.00	0.077	-22.27	-35.50	0.035	-29.12	-59.00
0.50	0.821	-1.71	-12.50	0.075	-22.50	-36.00	0.032	-29.90	-59.50
0.25	0.883	-1.08	-13.00	0.069	-23.22	-36.50	0.030	-30.46	-60.00
0.00	0.933	-0.60	-13.50	0.061	-24.29	-37.00	0.030	-30.46	-60.50
-0.25	0.970	-0.26	-14.00	0.056	-25.04	-37.50	0.032	-29.90	-61.00
-0.50	0.993	-0.06	-14.50	0.057	-24.88	-38.00	0.035	-29.12	-61.50
-0.75	1.000	0.00	-15.00	0.060	-24.44	-38.50	0.036	-28.87	-62.00
-1.00	0.993	-0.06	-15.50	0.060	-24.44	-39.00	0.035	-29.12	-62.50
-1.25	0.970	-0.26	-16.00	0.056	-25.04	-39.50	0.033	-29.63	-63.00
-1.50	0.935	-0.58	-16.50	0.049	-26.20	-40.00	0.030	-30.46	-63.50
-1.75	0.887	-1.04	-17.00	0.045	-26.94	-40.50	0.030	-30.46	-64.00
-2.00	0.829	-1.63	-17.50	0.046	-26.74	-41.00	0.031	-30.17	-64.50
-2.25	0.763	-2.35	-18.00	0.050	-26.02	-41.50	0.034	-29.37	-65.00
-2.50	0.691	-3.21	-18.50	0.051	-25.85	-42.00	0.036	-28.87	-65.50
-2.75	0.616	-4.21	-19.00	0.049	-26.20	-42.50	0.036	-28.87	-66.00
-3.00	0.540	-5.35	-19.50	0.043	-27.33	-43.00	0.035	-29.12	-66.50
-3.25	0.467	-6.61	-20.00	0.039	-28.18	-43.50	0.033	-29.63	-67.00
-3.50	0.399	-7.98	-20.50	0.039	-28.18	-44.00	0.031	-30.17	-67.50
-3.75	0.340	-9.37	-21.00	0.043	-27.33	-44.50	0.031	-30.17	-68.00
-4.00	0.290	-10.75	-21.50	0.045	-26.94	-45.00	0.032	-29.90	-68.50
-4.25	0.254	-11.92	-22.00	0.044	-27.13	-45.50	0.034	-29.37	-69.00
-4.50	0.229	-12.80	-22.50	0.039	-28.18	-46.00	0.036	-28.87	-69.50
-4.75	0.215	-13.35	-23.00	0.035	-29.12	-46.50	0.036	-28.87	-70.00
-5.00	0.208	-13.64	-23.50	0.035	-29.12	-47.00	0.036	-28.87	-70.50
-5.25	0.204	-13.81	-24.00	0.038	-28.40	-47.50	0.034	-29.37	-71.00
-5.50	0.200	-13.98	-24.50	0.041	-27.74	-48.00	0.032	-29.90	-71.50
-5.75	0.195	-14.22	-25.00	0.041	-27.74	-48.50	0.031	-30.17	-72.00
-6.00	0.187	-14.56	-25.50	0.038	-28.40	-49.00	0.031	-30.17	-72.50
-6.25	0.176	-15.07	-26.00	0.033	-29.63	-49.50	0.032	-29.90	-73.00
-6.50	0.164	-15.70	-26.50	0.031	-30.17	-50.00	0.034	-29.37	-73.50

Preliminary, subject to final design and review.