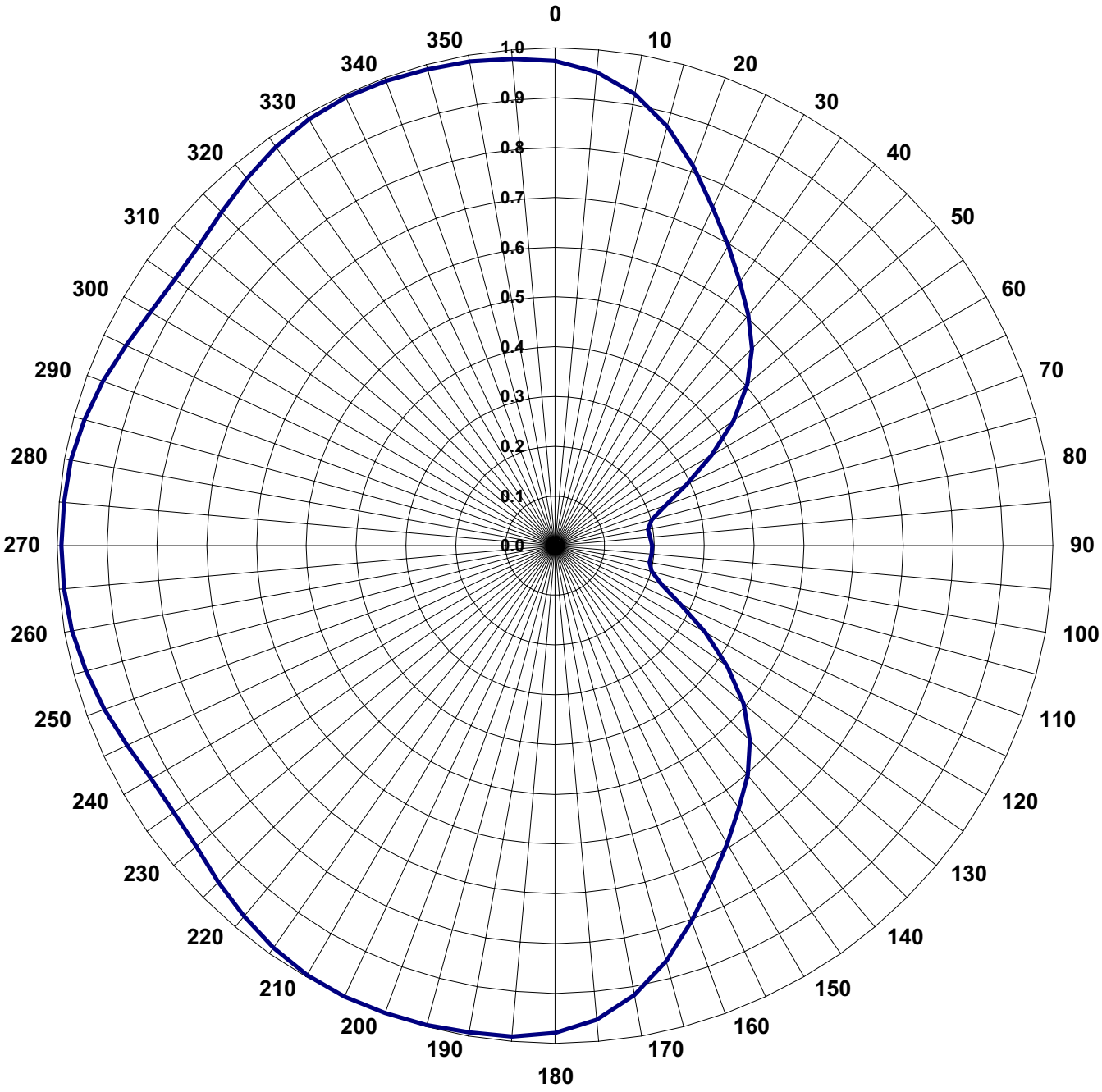
AZIMUTH PATTERN

TYPE:	**CH56HAZ-W**		**Frequency:**	**56 (DTV)**
	Numeric	**dB**	**Location:**	**Des Moines, IA**
Directivity:	**1.56**	**1.93**	**Polarization:**	**Horizontal**
Peak(s) at:				

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



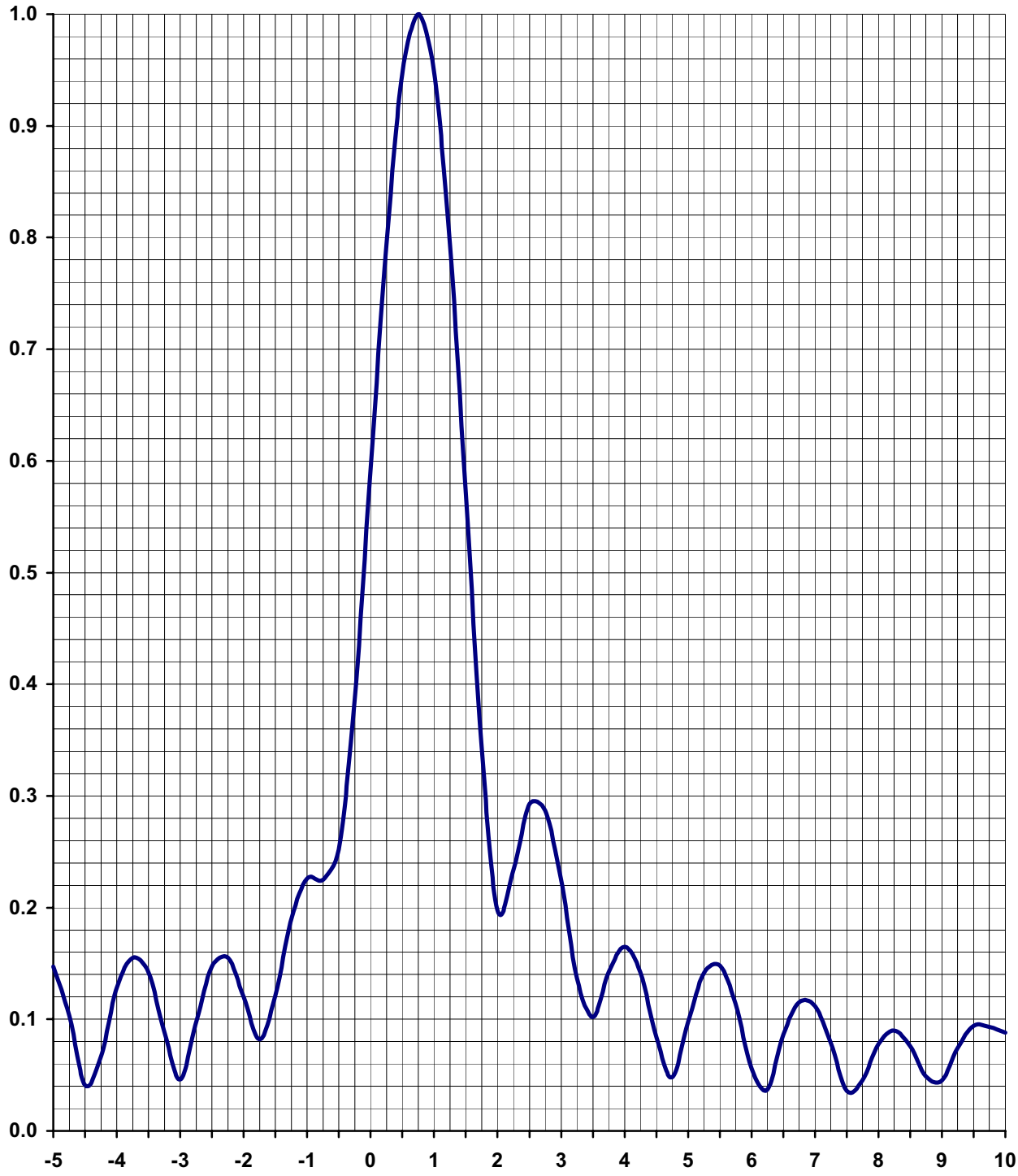
TABULATED DATA FOR AZIMUTH PATTERN

TYPE: CH56HAZ-W

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	0.974	-0.23	92	0.195	-14.20	184	0.988	-0.10	276	0.990	-0.09
2	0.968	-0.28	94	0.195	-14.20	186	0.991	-0.08	278	0.989	-0.10
4	0.960	-0.35	96	0.194	-14.24	188	0.992	-0.07	280	0.987	-0.11
6	0.950	-0.45	98	0.193	-14.29	190	0.993	-0.06	282	0.984	-0.14
8	0.937	-0.57	100	0.193	-14.29	192	0.995	-0.04	284	0.981	-0.17
10	0.921	-0.71	102	0.195	-14.20	194	0.996	-0.03	286	0.976	-0.21
12	0.903	-0.89	104	0.198	-14.07	196	0.997	-0.03	288	0.971	-0.26
14	0.882	-1.09	106	0.205	-13.76	198	0.998	-0.02	290	0.966	-0.30
16	0.860	-1.31	108	0.215	-13.35	200	0.999	-0.01	292	0.960	-0.35
18	0.836	-1.56	110	0.228	-12.84	202	1.000	0.00	294	0.954	-0.41
20	0.811	-1.82	112	0.246	-12.18	204	1.000	0.00	296	0.948	-0.46
22	0.787	-2.08	114	0.267	-11.47	206	1.000	0.00	298	0.943	-0.51
24	0.762	-2.36	116	0.291	-10.72	208	0.998	-0.02	300	0.938	-0.56
26	0.738	-2.64	118	0.318	-9.95	210	0.996	-0.03	302	0.935	-0.58
28	0.716	-2.90	120	0.348	-9.17	212	0.993	-0.06	304	0.933	-0.60
30	0.695	-3.16	122	0.378	-8.45	214	0.989	-0.10	306	0.932	-0.61
32	0.675	-3.41	124	0.408	-7.79	216	0.984	-0.14	308	0.933	-0.60
34	0.656	-3.66	126	0.438	-7.17	218	0.978	-0.19	310	0.935	-0.58
36	0.638	-3.90	128	0.467	-6.61	220	0.972	-0.25	312	0.939	-0.55
38	0.621	-4.14	130	0.495	-6.11	222	0.965	-0.31	314	0.944	-0.50
40	0.604	-4.38	132	0.520	-5.68	224	0.959	-0.36	316	0.950	-0.45
42	0.587	-4.63	134	0.543	-5.30	226	0.952	-0.43	318	0.956	-0.39
44	0.568	-4.91	136	0.564	-4.97	228	0.946	-0.48	320	0.963	-0.33
46	0.549	-5.21	138	0.584	-4.67	230	0.941	-0.53	322	0.969	-0.27
48	0.527	-5.56	140	0.602	-4.41	232	0.938	-0.56	324	0.975	-0.22
50	0.504	-5.95	142	0.620	-4.15	234	0.935	-0.58	326	0.981	-0.17
52	0.479	-6.39	144	0.637	-3.92	236	0.934	-0.59	328	0.985	-0.13
54	0.452	-6.90	146	0.654	-3.69	238	0.935	-0.58	330	0.989	-0.10
56	0.423	-7.47	148	0.672	-3.45	240	0.937	-0.57	332	0.992	-0.07
58	0.393	-8.11	150	0.691	-3.21	242	0.941	-0.53	334	0.994	-0.05
60	0.363	-8.80	152	0.711	-2.96	244	0.945	-0.49	336	0.994	-0.05
62	0.333	-9.55	154	0.732	-2.71	246	0.951	-0.44	338	0.994	-0.05
64	0.305	-10.31	156	0.755	-2.44	248	0.957	-0.38	340	0.994	-0.05
66	0.279	-11.09	158	0.778	-2.18	250	0.963	-0.33	342	0.993	-0.06
68	0.255	-11.87	160	0.803	-1.91	252	0.968	-0.28	344	0.991	-0.08
70	0.235	-12.58	162	0.827	-1.65	254	0.974	-0.23	346	0.990	-0.09
72	0.219	-13.19	164	0.852	-1.39	256	0.978	-0.19	348	0.988	-0.10
74	0.206	-13.72	166	0.875	-1.16	258	0.982	-0.16	350	0.987	-0.11
76	0.198	-14.07	168	0.897	-0.94	260	0.985	-0.13	352	0.985	-0.13
78	0.192	-14.33	170	0.917	-0.75	262	0.988	-0.10	354	0.983	-0.15
80	0.190	-14.42	172	0.935	-0.58	264	0.990	-0.09	356	0.981	-0.17
82	0.190	-14.42	174	0.950	-0.45	266	0.991	-0.08	358	0.978	-0.19
84	0.191	-14.38	176	0.962	-0.34	268	0.991	-0.08	360	0.974	-0.23
86	0.192	-14.33	178	0.972	-0.25	270	0.992	-0.07			
88	0.194	-14.24	180	0.979	-0.18	272	0.992	-0.07			
90	0.195	-14.20	182	0.985	-0.13	274	0.991	-0.08			

ELEVATION PATTERN

TYPE:	ALP32M3H		Frequency:	56 (DTV)
Directivity:	Numeric	dBd	Location:	Des Moines, IA
Main Lobe:	31.93	15.04	Beam Tilt:	0.75
Horizontal:	11.15	10.47	Polarization:	Horizontal



TABULATED DATA FOR ELEVATION PATTERN

ALP32M3H ***-5 to 10 degrees in 0.25 increments*** ***10 to 90 degrees in 0.50 increments***

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
-5.000	0.147	-16.65	6.75	0.115	-18.79	27.00	0.009	-40.92	50.50	0.014	-37.08	74.00	0.047	-26.56
-4.750	0.103	-19.74	7.00	0.112	-19.02	27.50	0.018	-34.89	51.00	0.016	-35.92	74.50	0.055	-25.19
-4.500	0.041	-27.74	7.25	0.079	-22.05	28.00	0.012	-38.42	51.50	0.026	-31.70	75.00	0.060	-24.44
-4.250	0.067	-23.48	7.50	0.036	-28.87	28.50	0.002	-53.98	52.00	0.029	-30.75	75.50	0.061	-24.29
-4.000	0.128	-17.86	7.75	0.045	-26.94	29.00	0.006	-44.44	52.50	0.021	-33.56	76.00	0.059	-24.58
-3.750	0.155	-16.19	8.00	0.078	-22.16	29.50	0.003	-50.46	53.00	0.014	-37.08	76.50	0.054	-25.35
-3.500	0.142	-16.95	8.25	0.090	-20.92	30.00	0.000	---	53.50	0.022	-33.15	77.00	0.046	-26.74
-3.250	0.088	-21.11	8.50	0.076	-22.38	30.50	0.002	-53.98	54.00	0.028	-31.06	77.50	0.038	-28.40
-3.000	0.046	-26.74	8.75	0.049	-26.20	31.00	0.006	-44.44	54.50	0.024	-32.40	78.00	0.030	-30.46
-2.750	0.098	-20.18	9.00	0.045	-26.94	31.50	0.005	-46.02	55.00	0.011	-39.17	78.50	0.023	-32.77
-2.500	0.147	-16.65	9.25	0.074	-22.62	32.00	0.012	-38.42	55.50	0.017	-35.39	79.00	0.018	-34.89
-2.250	0.155	-16.19	9.50	0.094	-20.54	32.50	0.021	-33.56	56.00	0.033	-29.63	79.50	0.016	-35.92
-2.000	0.120	-18.42	9.75	0.093	-20.63	33.00	0.026	-31.70	56.50	0.039	-28.18	80.00	0.016	-35.92
-1.750	0.082	-21.72	10.00	0.088	-21.11	33.50	0.059	-24.58	57.00	0.032	-29.90	80.50	0.017	-35.39
-1.500	0.121	-18.34	10.50	0.161	-15.86	34.00	0.111	-19.09	57.50	0.015	-36.48	81.00	0.018	-34.89
-1.250	0.190	-14.42	11.00	0.254	-11.90	34.50	0.145	-16.77	58.00	0.013	-37.72	81.50	0.019	-34.42
-1.000	0.226	-12.92	11.50	0.246	-12.18	35.00	0.138	-17.20	58.50	0.032	-29.90	82.00	0.019	-34.42
-0.750	0.225	-12.96	12.00	0.148	-16.59	35.50	0.091	-20.82	59.00	0.042	-27.54	82.50	0.019	-34.42
-0.500	0.252	-11.97	12.50	0.046	-26.74	36.00	0.038	-28.40	59.50	0.040	-27.96	83.00	0.018	-34.89
-0.250	0.388	-8.22	13.00	0.030	-30.46	36.50	0.049	-26.20	60.00	0.026	-31.70	83.50	0.017	-35.39
0.000	0.591	-4.57	13.50	0.022	-33.15	37.00	0.057	-24.88	60.50	0.013	-37.72	84.00	0.015	-36.48
0.250	0.795	-1.99	14.00	0.005	-46.02	37.50	0.035	-29.12	61.00	0.025	-32.04	84.50	0.014	-37.08
0.500	0.946	-0.48	14.50	0.000	---	38.00	0.022	-33.15	61.50	0.039	-28.18	85.00	0.012	-38.42
0.750	1.000	0.00	15.00	0.006	-44.44	38.50	0.036	-28.87	62.00	0.044	-27.13	85.50	0.010	-40.00
1.000	0.949	-0.45	15.50	0.004	-47.96	39.00	0.029	-30.75	62.50	0.038	-28.40	86.00	0.009	-40.92
1.250	0.793	-2.01	16.00	0.017	-35.39	39.50	0.010	-40.00	63.00	0.025	-32.04	86.50	0.007	-43.10
1.500	0.574	-4.82	16.50	0.020	-33.98	40.00	0.028	-31.06	63.50	0.026	-31.70	87.00	0.006	-44.44
1.750	0.343	-9.29	17.00	0.006	-44.44	40.50	0.035	-29.12	64.00	0.042	-27.54	87.50	0.005	-46.02
2.000	0.198	-14.07	17.50	0.027	-31.37	41.00	0.021	-33.56	64.50	0.057	-24.88	88.00	0.004	-47.96
2.250	0.234	-12.62	18.00	0.028	-31.06	41.50	0.008	-41.94	65.00	0.063	-24.01	88.50	0.003	-50.46
2.500	0.293	-10.66	18.50	0.010	-40.00	42.00	0.025	-32.04	65.50	0.062	-24.15	89.00	0.002	-53.98
2.750	0.287	-10.84	19.00	0.034	-29.37	42.50	0.027	-31.37	66.00	0.066	-23.61	89.50	0.001	-60.00
3.000	0.224	-13.00	19.50	0.030	-30.46	43.00	0.014	-37.08	66.50	0.087	-21.21	90.00	0.000	---
3.250	0.137	-17.27	20.00	0.025	-32.04	43.50	0.010	-40.00	67.00	0.125	-18.06			
3.500	0.102	-19.83	20.50	0.054	-25.35	44.00	0.019	-34.42	67.50	0.168	-15.49			
3.750	0.142	-16.95	21.00	0.056	-25.04	44.50	0.017	-35.39	68.00	0.208	-13.64			
4.000	0.165	-15.65	21.50	0.112	-19.02	45.00	0.009	-40.92	68.50	0.238	-12.47			
4.250	0.142	-16.95	22.00	0.203	-13.85	45.50	0.012	-38.42	69.00	0.255	-11.87			
4.500	0.084	-21.51	22.50	0.240	-12.40	46.00	0.016	-35.92	69.50	0.258	-11.77			
4.750	0.048	-26.38	23.00	0.190	-14.42	46.50	0.014	-37.08	70.00	0.246	-12.18			
5.000	0.098	-20.18	23.50	0.090	-20.92	47.00	0.013	-37.72	70.50	0.223	-13.03			
5.250	0.141	-17.02	24.00	0.045	-26.94	47.50	0.017	-35.39	71.00	0.190	-14.42			
5.500	0.148	-16.59	24.50	0.063	-24.01	48.00	0.014	-37.08	71.50	0.153	-16.31			
5.750	0.114	-18.86	25.00	0.040	-27.96	48.50	0.003	-50.46	72.00	0.115	-18.79			
6.000	0.056	-25.04	25.50	0.019	-34.42	49.00	0.012	-38.42	72.50	0.080	-21.94			
6.250	0.037	-28.64	26.00	0.029	-30.75	49.50	0.022	-33.15	73.00	0.054	-25.35			
6.500	0.086	-21.31	26.50	0.017	-35.39	50.00	0.021	-33.56	73.50	0.043	-27.33			