

**WSCV-DT Post Transition DTV Facility**

**EXHIBIT 42**  
**March 17, 2008**

**TABULATION OF AZIMUTH PATTERN: Andrew ATW22H5-ESP2-30/31H**

**Major lobes: 214 degrees and 356 degrees true**

**Electrical Beam Tilt: 1.25 degrees**

**Mechanical beam tilt: None**

**Calculated Maximum Azimuth Pattern Gain (peak): 2.20 (3.42 dBd)**

**Maximum Horizontal Peak of Beam Effective Radiated Power (ERP): 950 kW**

**Maximum Gain at Radio Horizon: 1.57 (1.97 dBd) ERP at Radio Horizon: 679.2 kW**

		Peak of Beam		At Radio Horizon					
Angle	Field	ERP (dBk)	ERP (kW)	ERP (dBk)	ERP (kW)	<b>MAXIMA - Peak of Beam</b>			
0	0.990	29.69	931.1	28.23	665.7	<b>Angle</b>	<b>Field</b>	<b>ERP (dBk)</b>	<b>ERP (kW)</b>
10	0.939	29.23	837.6	27.77	598.9				
20	0.850	28.37	686.4	26.91	490.7	106	0.308	19.5	90.12
30	0.743	27.20	524.4	25.74	375.0	214	0.999	29.8	948.10
40	0.608	25.46	351.2	24.00	251.1	356	1.000	29.8	950.00
50	0.438	22.61	182.3	21.15	130.3				
60	0.323	19.96	99.1	18.50	70.9				
70	0.291	19.06	80.4	17.60	57.5				
80	0.287	18.94	78.3	17.48	55.9	<b>MINIMA - Peak of Beam</b>			
90	0.298	19.26	84.4	17.80	60.3	<b>Angle</b>	<b>Field</b>	<b>ERP (dBk)</b>	<b>ERP (kW)</b>
100	0.305	19.47	88.4	18.01	63.2				
110	0.305	19.47	88.4	18.01	63.2	76	0.283	18.8	76.08
120	0.297	19.24	83.8	17.78	59.9	134	0.283	18.8	76.08
130	0.288	18.97	78.8	17.51	56.3	284	0.491	23.6	229.03
140	0.291	19.06	80.4	17.60	57.5				
150	0.323	19.96	99.1	18.50	70.9				
160	0.438	22.61	182.3	21.15	130.3				
170	0.608	25.46	351.2	24.00	251.1	<b>MAXIMA - Radio Horizon</b>			
180	0.743	27.20	524.4	25.74	375.0	<b>Angle</b>	<b>Field</b>	<b>ERP (dBk)</b>	<b>ERP (kW)</b>
190	0.850	28.37	686.4	26.91	490.7				
200	0.939	29.23	837.6	27.77	598.9	106	0.308	18.1	64.43
210	0.990	29.69	931.1	28.23	665.7	214	0.999	28.3	677.84
220	0.985	29.65	921.7	28.19	659.0	356	1.000	28.3	679.20
230	0.933	29.18	827.0	27.72	591.2				
240	0.849	28.36	684.8	26.90	489.6				
250	0.744	27.21	525.9	25.75	376.0	<b>MINIMA - Radio Horizon</b>			
260	0.634	25.82	381.9	24.36	273.0	<b>Angle</b>	<b>Field</b>	<b>ERP (dBk)</b>	<b>ERP (kW)</b>
270	0.546	24.52	283.2	23.06	202.5				
280	0.501	23.78	238.5	22.32	170.5	76	0.283	17.4	54.40
290	0.501	23.78	238.5	22.32	170.5	134	0.283	17.4	54.40
300	0.547	24.54	284.2	23.08	203.2	284	0.491	22.1	163.74
310	0.634	25.82	381.9	24.36	273.0				
320	0.744	27.21	525.9	25.75	376.0				
330	0.849	28.36	684.8	26.90	489.6				
340	0.933	29.18	827.0	27.72	591.2				
350	0.985	29.65	921.7	28.19	659.0				

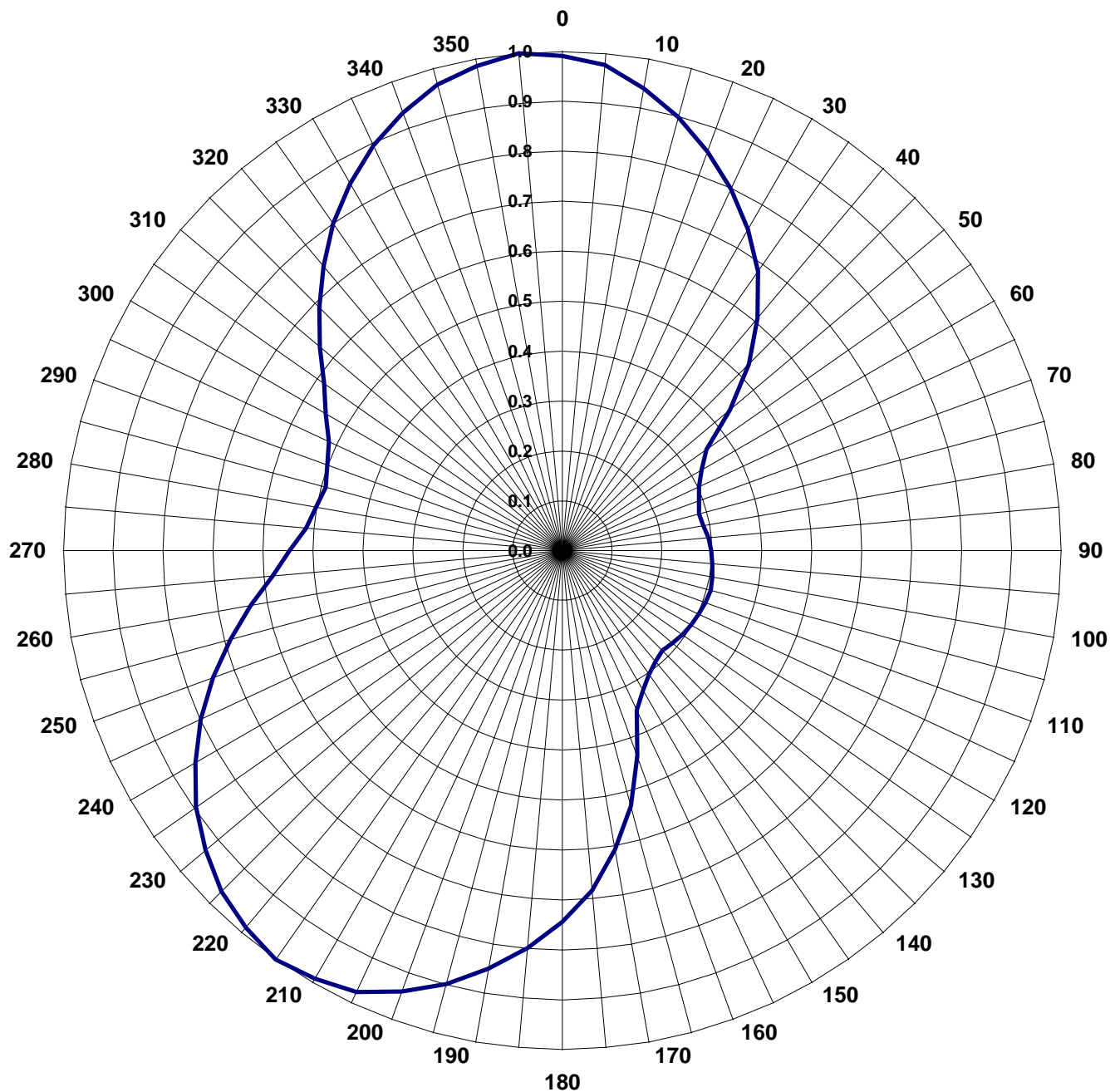
**Note:** Relative field normalized to 1.0 is the same at peak of beam and the radio horizon. Relative field at the radio horizon (0.445 degrees) is 0.846 of peak of beam.

Prepared by Doug Lung

## AZIMUTH PATTERN

**TYPE:****CH30HAZ-P2****Numeric****dB****Directivity:****2.20****3.42****Peak(s) at:****Polarization:****Horizontal****Frequency:****30/31 (DTV)****Location:****Fort Lauderdale, FL**

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



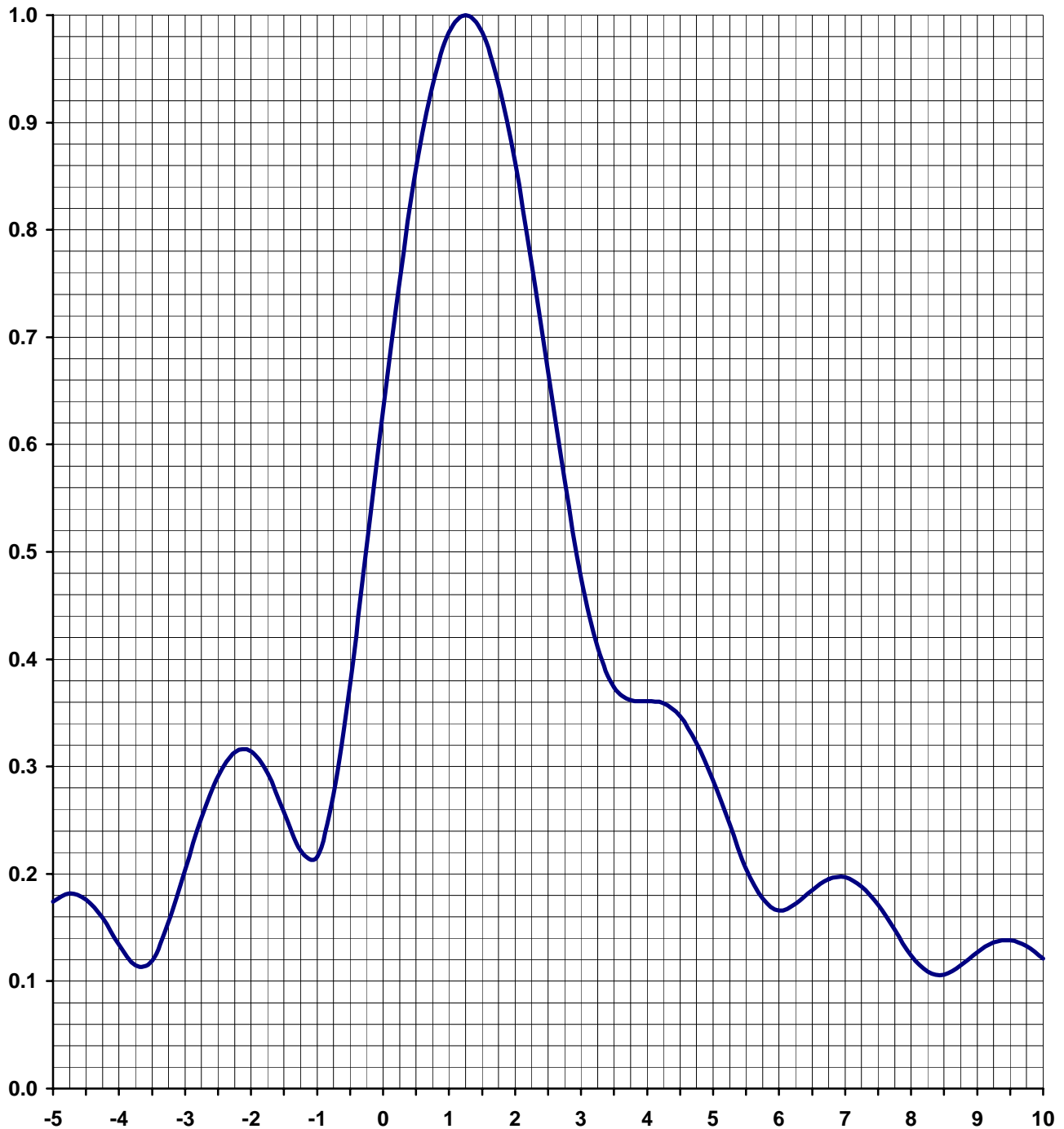
**TABULATED DATA FOR AZIMUTH PATTERN****TYPE: CH30HAZ-P2**

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	0.990	-0.09	92	0.299	-10.49	184	0.788	-2.07	276	0.510	-5.85
2	0.986	-0.12	94	0.301	-10.43	186	0.810	-1.83	278	0.505	-5.93
4	0.981	-0.17	96	0.302	-10.40	188	0.830	-1.62	280	0.501	-6.00
6	0.970	-0.26	98	0.304	-10.34	190	0.850	-1.41	282	0.496	-6.09
8	0.954	-0.41	100	0.305	-10.31	192	0.870	-1.21	284	0.491	-6.18
10	0.939	-0.55	102	0.306	-10.29	194	0.890	-1.01	286	0.491	-6.18
12	0.924	-0.69	104	0.307	-10.26	196	0.907	-0.85	288	0.496	-6.09
14	0.908	-0.84	106	0.308	-10.23	198	0.923	-0.70	290	0.501	-6.00
16	0.890	-1.01	108	0.307	-10.26	200	0.939	-0.55	292	0.505	-5.93
18	0.870	-1.21	110	0.305	-10.31	202	0.955	-0.40	294	0.510	-5.85
20	0.850	-1.41	112	0.303	-10.37	204	0.969	-0.27	296	0.519	-5.70
22	0.830	-1.62	114	0.302	-10.40	206	0.979	-0.18	298	0.533	-5.47
24	0.810	-1.83	116	0.301	-10.43	208	0.986	-0.12	300	0.547	-5.24
26	0.789	-2.06	118	0.299	-10.49	210	0.990	-0.09	302	0.560	-5.04
28	0.766	-2.32	120	0.297	-10.54	212	0.995	-0.04	304	0.574	-4.82
30	0.743	-2.58	122	0.296	-10.57	214	0.999	-0.01	306	0.592	-4.55
32	0.720	-2.85	124	0.295	-10.60	216	0.998	-0.02	308	0.612	-4.26
34	0.696	-3.15	126	0.293	-10.66	218	0.992	-0.07	310	0.634	-3.96
36	0.669	-3.49	128	0.291	-10.72	220	0.985	-0.13	312	0.656	-3.66
38	0.639	-3.89	130	0.288	-10.81	222	0.978	-0.19	314	0.677	-3.39
40	0.608	-4.32	132	0.285	-10.90	224	0.971	-0.26	316	0.699	-3.11
42	0.577	-4.78	134	0.283	-10.96	226	0.960	-0.35	318	0.722	-2.83
44	0.546	-5.26	136	0.283	-10.96	228	0.947	-0.47	320	0.744	-2.57
46	0.512	-5.81	138	0.287	-10.84	230	0.933	-0.60	322	0.767	-2.30
48	0.476	-6.45	140	0.291	-10.72	232	0.918	-0.74	324	0.789	-2.06
50	0.438	-7.17	142	0.295	-10.60	234	0.904	-0.88	326	0.810	-1.83
52	0.400	-7.96	144	0.299	-10.49	236	0.887	-1.04	328	0.829	-1.63
54	0.364	-8.78	146	0.306	-10.29	238	0.869	-1.22	330	0.849	-1.42
56	0.342	-9.32	148	0.315	-10.03	240	0.849	-1.42	332	0.868	-1.23
58	0.332	-9.58	150	0.323	-9.82	242	0.829	-1.63	334	0.888	-1.03
60	0.323	-9.82	152	0.332	-9.58	244	0.809	-1.84	336	0.904	-0.88
62	0.315	-10.03	154	0.342	-9.32	246	0.788	-2.07	338	0.918	-0.74
64	0.306	-10.29	156	0.365	-8.75	248	0.767	-2.30	340	0.933	-0.60
66	0.299	-10.49	158	0.400	-7.96	250	0.744	-2.57	342	0.947	-0.47
68	0.295	-10.60	160	0.438	-7.17	252	0.721	-2.84	344	0.961	-0.35
70	0.291	-10.72	162	0.475	-6.47	254	0.699	-3.11	346	0.972	-0.25
72	0.287	-10.84	164	0.512	-5.81	256	0.677	-3.39	348	0.978	-0.19
74	0.283	-10.96	166	0.546	-5.26	258	0.656	-3.66	350	0.985	-0.13
76	0.283	-10.96	168	0.577	-4.78	260	0.634	-3.96	352	0.992	-0.07
78	0.285	-10.90	170	0.608	-4.32	262	0.613	-4.25	354	0.999	-0.01
80	0.287	-10.84	172	0.639	-3.89	264	0.592	-4.55	356	1.000	0.00
82	0.290	-10.75	174	0.669	-3.49	266	0.575	-4.81	358	0.995	-0.04
84	0.293	-10.66	176	0.696	-3.15	268	0.560	-5.04	360	0.990	-0.09
86	0.295	-10.60	178	0.719	-2.87	270	0.546	-5.26			
88	0.297	-10.54	180	0.743	-2.58	272	0.533	-5.47			
90	0.298	-10.52	182	0.766	-2.32	274	0.520	-5.68			

**ELEVATION PATTERN**

<b>TYPE:</b>	<b>ATW22H5H</b>	
<b>Directivity:</b>	<b>Numeric</b>	<b>dBd</b>
<b>Main Lobe:</b>	<b>22.00</b>	<b>13.42</b>
<b>Horizontal:</b>	<b>8.79</b>	<b>9.44</b>

<b>Frequency:</b>	<b>30 (DTV)</b>
<b>Location:</b>	<b>Fort Lauderdale, FL</b>
<b>Beam Tilt:</b>	<b>1.25</b>
<b>Polarization:</b>	<b>Horizontal</b>



## TABULATED DATA FOR ELEVATION PATTERN

TYPE: ATW22H5H

-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
-5.00	0.174	-15.19	6.75	0.195	-14.20	27.00	0.048	-26.38	50.50	0.026	-31.70	74.00	0.059	-24.58
-4.75	0.182	-14.80	7.00	0.197	-14.11	27.50	0.052	-25.68	51.00	0.023	-32.77	74.50	0.063	-24.01
-4.50	0.176	-15.09	7.25	0.188	-14.52	28.00	0.045	-26.94	51.50	0.030	-30.46	75.00	0.064	-23.88
-4.25	0.159	-15.97	7.50	0.171	-15.34	28.50	0.033	-29.63	52.00	0.040	-27.96	75.50	0.064	-23.88
-4.00	0.134	-17.46	7.75	0.148	-16.59	29.00	0.031	-30.17	52.50	0.046	-26.74	76.00	0.062	-24.15
-3.75	0.115	-18.79	8.00	0.124	-18.13	29.50	0.041	-27.74	53.00	0.048	-26.38	76.50	0.060	-24.44
-3.50	0.119	-18.49	8.25	0.109	-19.25	30.00	0.049	-26.20	53.50	0.043	-27.33	77.00	0.056	-25.04
-3.25	0.155	-16.19	8.50	0.106	-19.49	30.50	0.047	-26.56	54.00	0.035	-29.12	77.50	0.051	-25.85
-3.00	0.204	-13.81	8.75	0.115	-18.79	31.00	0.037	-28.64	54.50	0.025	-32.04	78.00	0.046	-26.74
-2.75	0.252	-11.97	9.00	0.127	-17.92	31.50	0.028	-31.06	55.00	0.023	-32.77	78.50	0.040	-27.96
-2.50	0.291	-10.72	9.25	0.136	-17.33	32.00	0.033	-29.63	55.50	0.030	-30.46	79.00	0.034	-29.37
-2.25	0.313	-10.09	9.50	0.138	-17.20	32.50	0.043	-27.33	56.00	0.040	-27.96	79.50	0.029	-30.75
-2.00	0.314	-10.06	9.75	0.133	-17.52	33.00	0.047	-26.56	56.50	0.047	-26.56	80.00	0.023	-32.77
-1.75	0.294	-10.63	10.00	0.121	-18.34	33.50	0.042	-27.54	57.00	0.050	-26.02	80.50	0.019	-34.42
-1.50	0.258	-11.77	10.50	0.089	-21.01	34.00	0.032	-29.90	57.50	0.049	-26.20	81.00	0.015	-36.48
-1.25	0.222	-13.07	11.00	0.079	-22.05	34.50	0.026	-31.70	58.00	0.042	-27.54	81.50	0.013	-37.72
-1.00	0.216	-13.31	11.50	0.098	-20.18	35.00	0.034	-29.37	58.50	0.033	-29.63	82.00	0.013	-37.72
-0.75	0.274	-11.24	12.00	0.107	-19.41	35.50	0.043	-27.33	59.00	0.024	-32.40	82.50	0.013	-37.72
-0.50	0.377	-8.47	12.50	0.093	-20.63	36.00	0.046	-26.74	59.50	0.023	-32.77	83.00	0.015	-36.48
-0.25	0.503	-5.97	13.00	0.069	-23.22	36.50	0.040	-27.96	60.00	0.031	-30.17	83.50	0.016	-35.92
0.00	0.632	-3.99	13.50	0.064	-23.88	37.00	0.030	-30.46	60.50	0.041	-27.74	84.00	0.017	-35.39
0.25	0.753	-2.46	14.00	0.080	-21.94	37.50	0.025	-32.04	61.00	0.049	-26.20	84.50	0.018	-34.89
0.50	0.857	-1.34	14.50	0.088	-21.11	38.00	0.033	-29.63	61.50	0.053	-25.51	85.00	0.018	-34.89
0.75	0.935	-0.58	15.00	0.077	-22.27	38.50	0.042	-27.54	62.00	0.054	-25.35	85.50	0.018	-34.89
1.00	0.984	-0.14	15.50	0.057	-24.88	39.00	0.045	-26.94	62.50	0.050	-26.02	86.00	0.018	-34.89
1.25	1.000	0.00	16.00	0.053	-25.51	39.50	0.041	-27.74	63.00	0.043	-27.33	86.50	0.017	-35.39
1.50	0.984	-0.14	16.50	0.068	-23.35	40.00	0.031	-30.17	63.50	0.034	-29.37	87.00	0.016	-35.92
1.75	0.936	-0.57	17.00	0.075	-22.50	40.50	0.024	-32.40	64.00	0.025	-32.04	87.50	0.014	-37.08
2.00	0.863	-1.28	17.50	0.066	-23.61	41.00	0.030	-30.46	64.50	0.021	-33.56	88.00	0.012	-38.42
2.25	0.770	-2.27	18.00	0.049	-26.20	41.50	0.040	-27.96	65.00	0.026	-31.70	88.50	0.010	-40.00
2.50	0.668	-3.50	18.50	0.046	-26.74	42.00	0.045	-26.94	65.50	0.036	-28.87	89.00	0.008	-41.94
2.75	0.566	-4.94	19.00	0.059	-24.58	42.50	0.043	-27.33	66.00	0.045	-26.94	89.50	0.005	-46.02
3.00	0.476	-6.45	19.50	0.067	-23.48	43.00	0.035	-29.12	66.50	0.053	-25.51	90.00	0.003	-50.46
3.25	0.411	-7.72	20.00	0.060	-24.44	43.50	0.025	-32.04	67.00	0.057	-24.88			
3.50	0.374	-8.54	20.50	0.045	-26.94	44.00	0.025	-32.04	67.50	0.059	-24.58			
3.75	0.362	-8.83	21.00	0.040	-27.96	44.50	0.034	-29.37	68.00	0.058	-24.73			
4.00	0.361	-8.85	21.50	0.051	-25.85	45.00	0.043	-27.33	68.50	0.053	-25.51			
4.25	0.359	-8.90	22.00	0.060	-24.44	45.50	0.046	-26.74	69.00	0.046	-26.74			
4.50	0.347	-9.19	22.50	0.056	-25.04	46.00	0.042	-27.54	69.50	0.038	-28.40			
4.75	0.322	-9.84	23.00	0.043	-27.33	46.50	0.033	-29.63	70.00	0.029	-30.75			
5.00	0.287	-10.84	23.50	0.035	-29.12	47.00	0.024	-32.40	70.50	0.021	-33.56			
5.25	0.246	-12.18	24.00	0.044	-27.13	47.50	0.025	-32.04	71.00	0.019	-34.42			
5.50	0.205	-13.76	24.50	0.054	-25.35	48.00	0.035	-29.12	71.50	0.023	-32.77			
5.75	0.177	-15.04	25.00	0.053	-25.51	48.50	0.043	-27.33	72.00	0.031	-30.17			
6.00	0.166	-15.60	25.50	0.043	-27.33	49.00	0.047	-26.56	72.50	0.040	-27.96			
6.25	0.172	-15.29	26.00	0.033	-29.63	49.50	0.044	-27.13	73.00	0.048	-26.38			
6.50	0.185	-14.66	26.50	0.037	-28.64	50.00	0.036	-28.87	73.50	0.054	-25.35			

**MAIN BEAM AZIMUTH PATTERN (dBk) : Andrew ATW22H5-ESP2-30/31H**

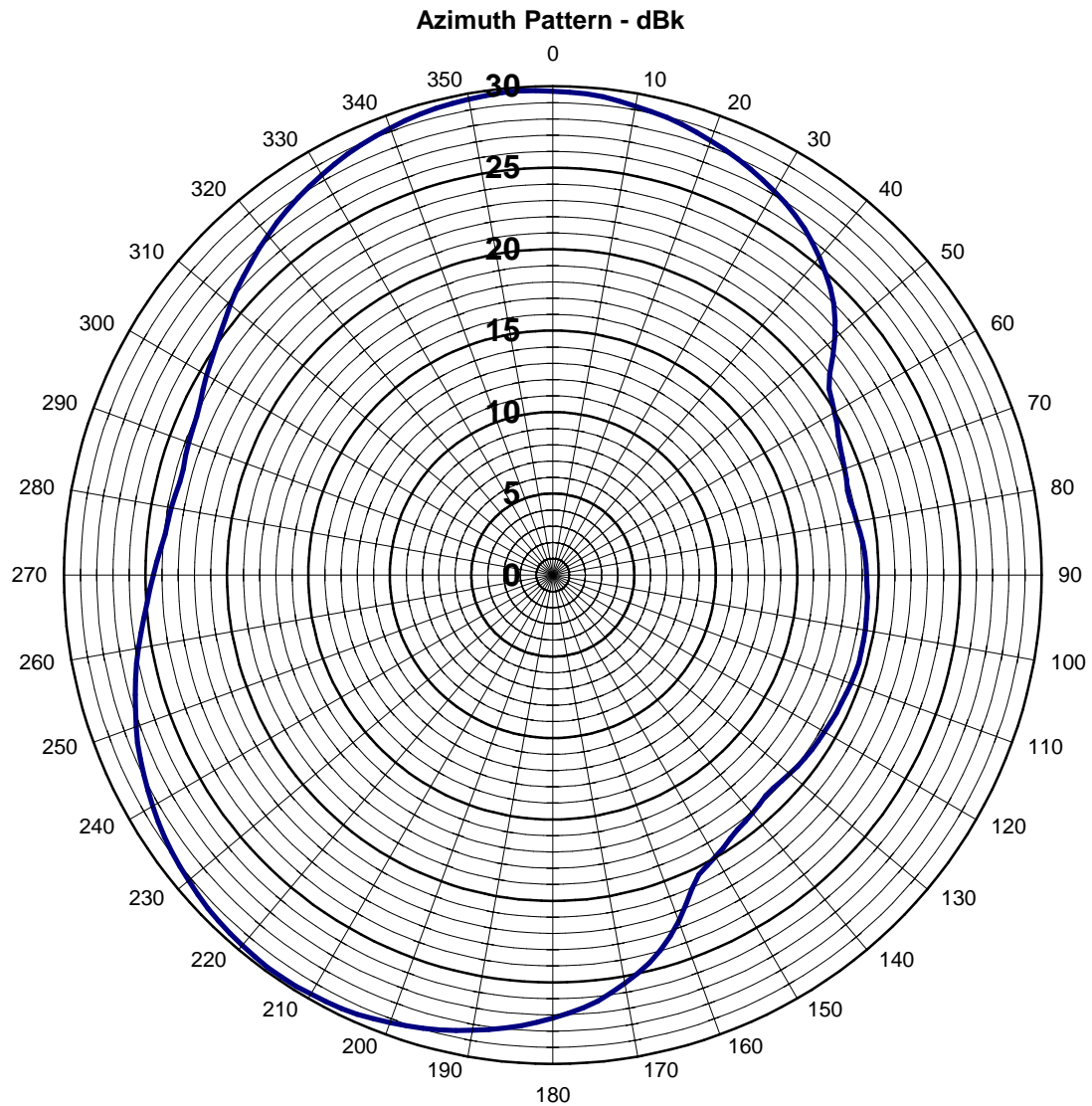
Electrical Beam Tilt: 1.25 degrees

Mechanical beam tilt: None

Calculated Maximum Azimuth Pattern Gain (peak): 2.20 (3.42 dBd)

Maximum Horizontal Peak of Beam Effective Radiated Power (ERP): 950 kW

Maximum Horizontal Peak of Beam Effective Radiated Power (ERP): 29.78 dBk



**RADIO HORIZON AZIMUTH PATTERN (dBk) : Andrew ATW22H5-ESP2-30/31H**

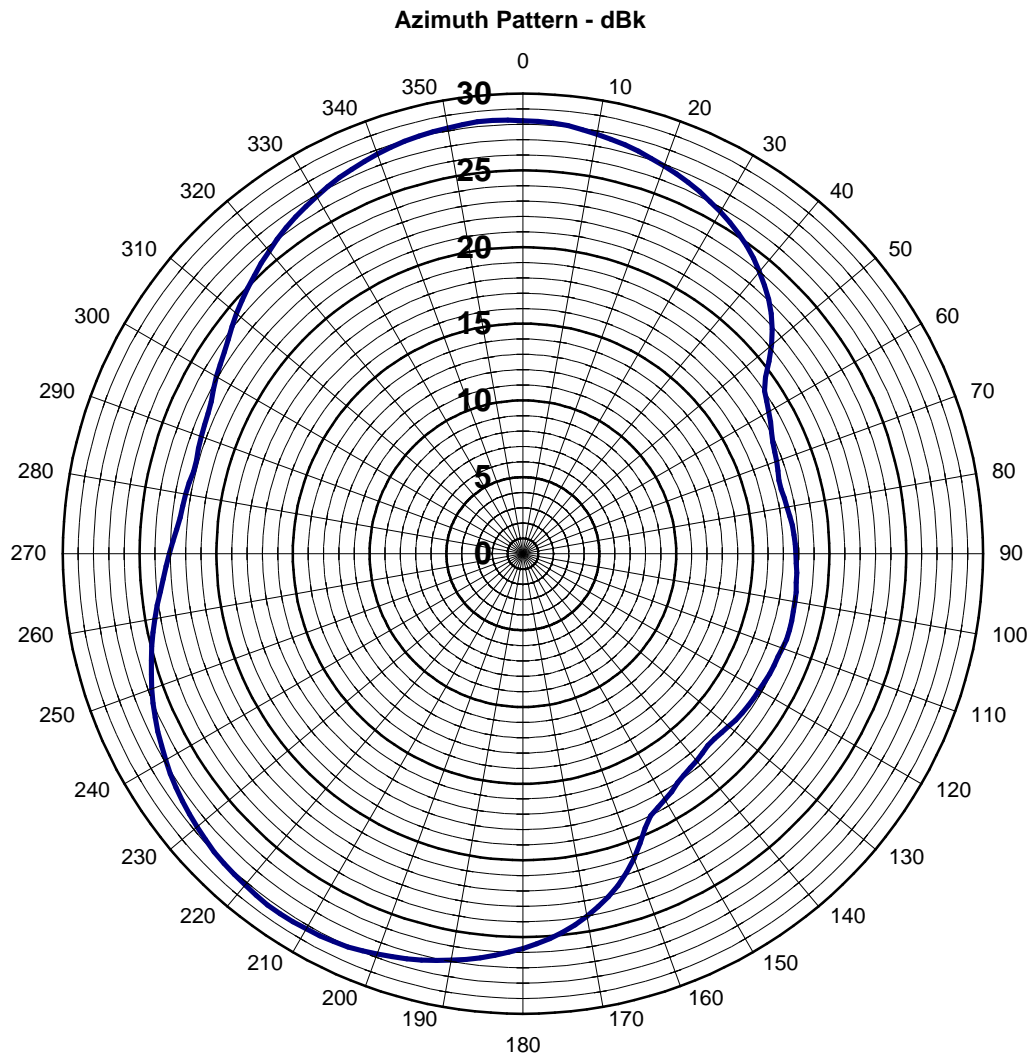
Electrical Beam Tilt: 1.25 degrees

Mechanical beam tilt: None

Depression angle to radio horizon: 0.445 degrees

Maximum Gain at radio horizon (0.445 degree depression angle): 1.57 (1.97 dBd)

Maximum ERP at radio horizon: 679.2 kW 28.32 dBk



# WSCV-DT Post Transition DTV Facility

EXHIBIT 42  
March 17, 2008

## ELEVATION PATTERN (dBk) : Andrew ATW22H5-ESP2-30/31H

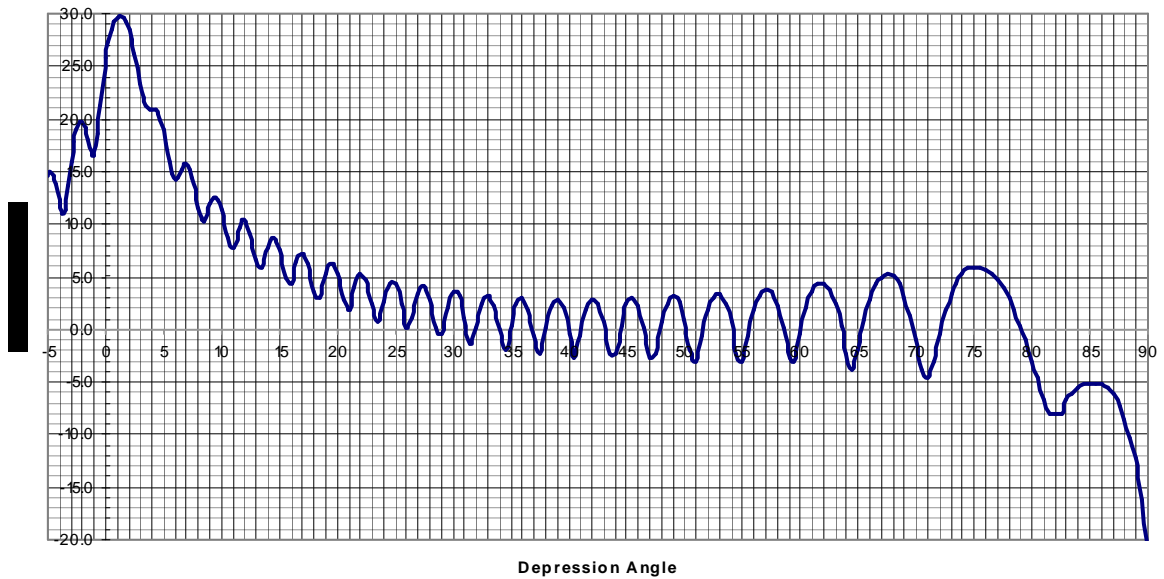
Electrical Beam Tilt: 1.25 degrees

Mechanical beam tilt: None

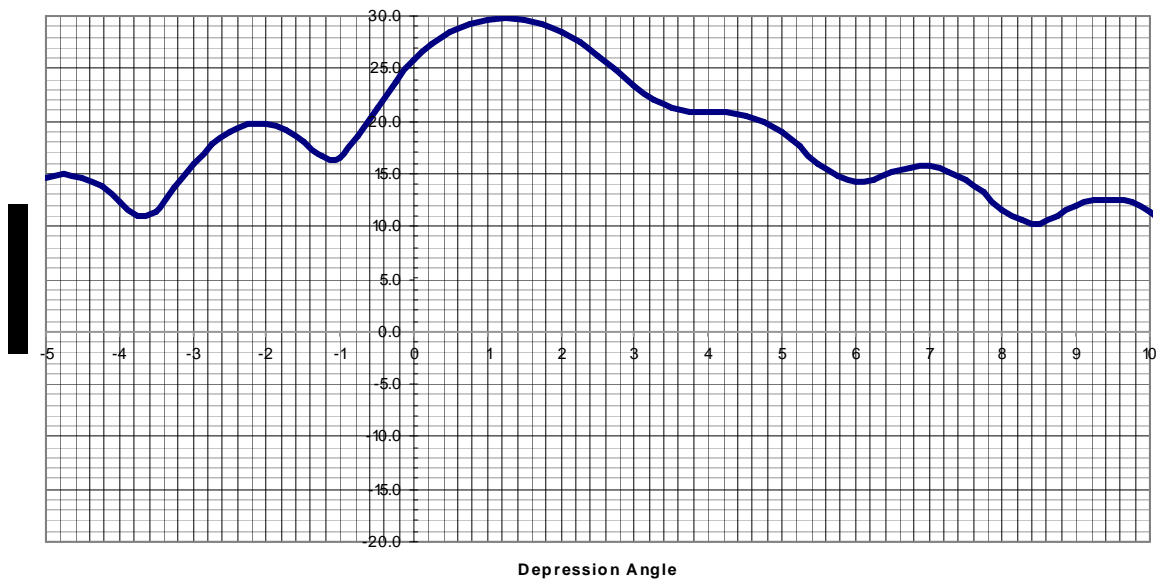
Calculated Maximum Elevation Gain: 22.0 13.42 dBd

Maximum Effective Radiated Power (ERP): 950 kW 29.78 dBk

Elevation Pattern - dBk



Elevation Pattern - dBk



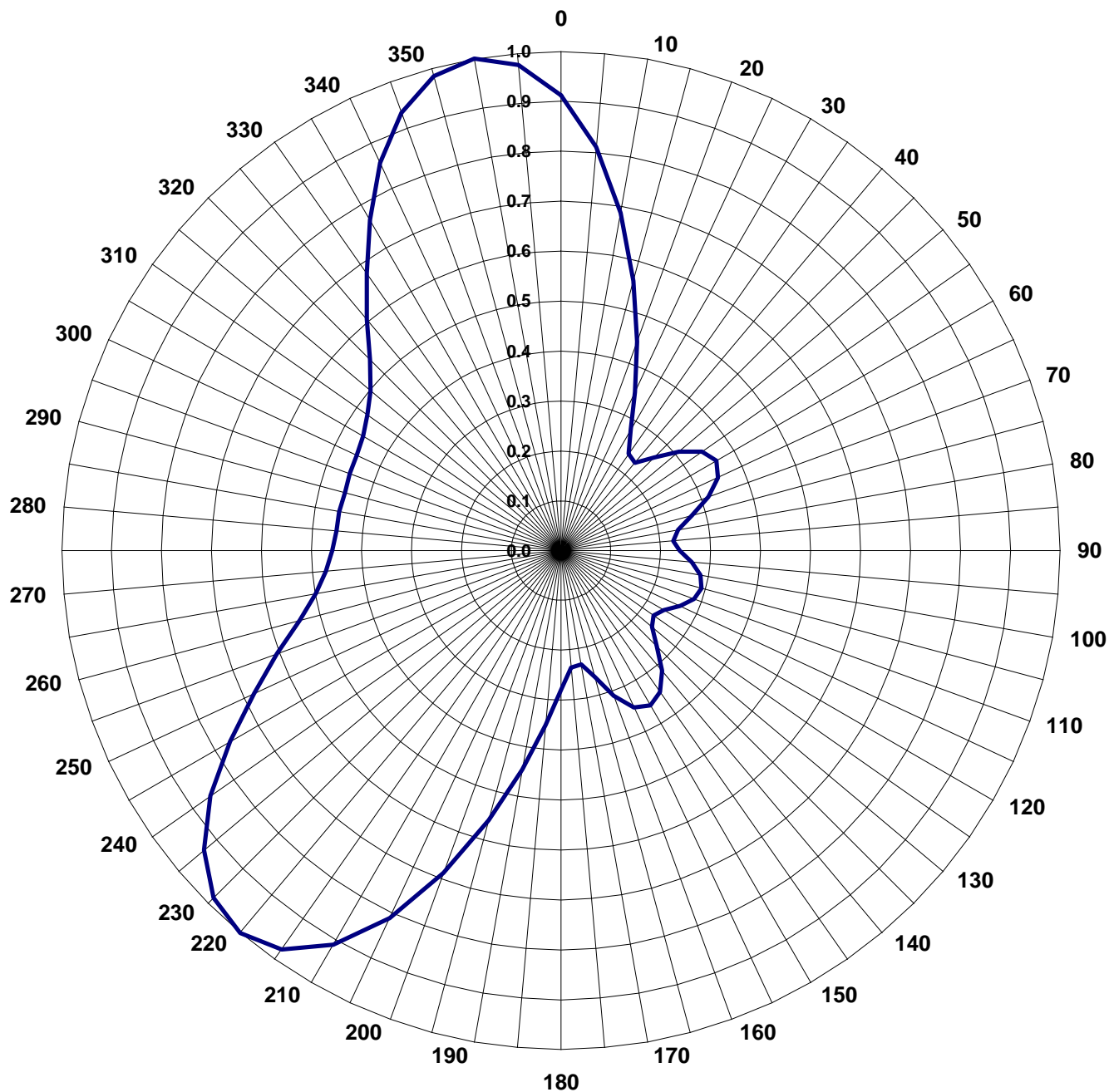
Prepared by Doug Lung



## AZIMUTH PATTERN

**TYPE:****CH30VAZ****Numeric****dB****Directivity:****3.20****5.05****Peak(s) at:****Polarization:****Vertical****Frequency:****30/31 (DTV)****Location:****Fort Lauderdale, FL**

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



# TABULATED DATA FOR AZIMUTH PATTERN

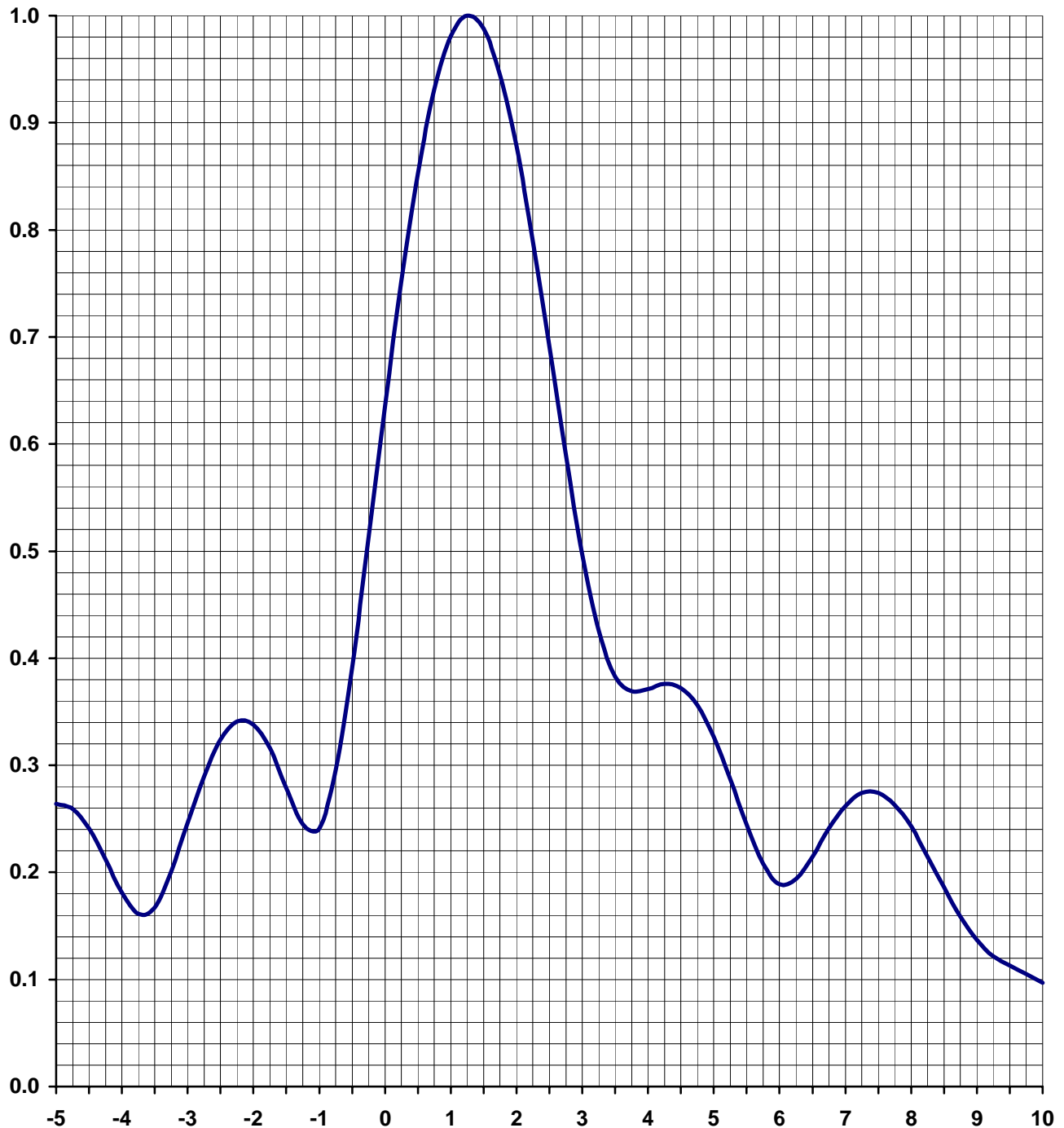
TYPE: CH30VAZ

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	0.912	-0.80	92	0.247	-12.15	184	0.333	-9.55	276	0.451	-6.92
2	0.877	-1.14	94	0.257	-11.80	186	0.367	-8.71	278	0.450	-6.94
4	0.834	-1.58	96	0.268	-11.44	188	0.404	-7.87	280	0.450	-6.94
6	0.789	-2.06	98	0.276	-11.18	190	0.445	-7.03	282	0.448	-6.97
8	0.738	-2.64	100	0.283	-10.96	192	0.488	-6.23	284	0.447	-6.99
10	0.687	-3.26	102	0.288	-10.81	194	0.534	-5.45	286	0.447	-6.99
12	0.635	-3.94	104	0.291	-10.72	196	0.584	-4.67	288	0.448	-6.97
14	0.584	-4.67	106	0.291	-10.72	198	0.635	-3.94	290	0.450	-6.94
16	0.534	-5.45	108	0.288	-10.81	200	0.687	-3.26	292	0.450	-6.94
18	0.488	-6.23	110	0.283	-10.96	202	0.738	-2.64	294	0.451	-6.92
20	0.445	-7.03	112	0.276	-11.18	204	0.788	-2.07	296	0.453	-6.88
22	0.404	-7.87	114	0.268	-11.44	206	0.834	-1.58	298	0.455	-6.84
24	0.367	-8.71	116	0.257	-11.80	208	0.876	-1.15	300	0.458	-6.78
26	0.332	-9.58	118	0.247	-12.15	210	0.912	-0.80	302	0.464	-6.67
28	0.304	-10.34	120	0.238	-12.47	212	0.942	-0.52	304	0.470	-6.56
30	0.279	-11.09	122	0.230	-12.77	214	0.966	-0.30	306	0.477	-6.43
32	0.255	-11.87	124	0.226	-12.92	216	0.983	-0.15	308	0.487	-6.25
34	0.240	-12.40	126	0.226	-12.92	218	0.995	-0.04	310	0.497	-6.07
36	0.231	-12.73	128	0.230	-12.77	220	0.999	-0.01	312	0.513	-5.80
38	0.226	-12.92	130	0.238	-12.47	222	0.998	-0.02	314	0.531	-5.50
40	0.230	-12.77	132	0.249	-12.08	224	0.991	-0.08	316	0.551	-5.18
42	0.240	-12.40	134	0.264	-11.57	226	0.975	-0.22	318	0.577	-4.78
44	0.253	-11.94	136	0.280	-11.06	228	0.956	-0.39	320	0.605	-4.36
46	0.272	-11.31	138	0.296	-10.57	230	0.933	-0.60	322	0.630	-4.01
48	0.291	-10.72	140	0.314	-10.06	232	0.905	-0.87	324	0.662	-3.58
50	0.309	-10.20	142	0.329	-9.66	234	0.873	-1.18	326	0.693	-3.19
52	0.326	-9.74	144	0.341	-9.34	236	0.838	-1.54	328	0.729	-2.75
54	0.341	-9.34	146	0.350	-9.12	238	0.802	-1.92	330	0.765	-2.33
56	0.350	-9.12	148	0.356	-8.97	240	0.765	-2.33	332	0.802	-1.92
58	0.356	-8.97	150	0.358	-8.92	242	0.729	-2.75	334	0.838	-1.54
60	0.359	-8.90	152	0.356	-8.97	244	0.694	-3.17	336	0.873	-1.18
62	0.356	-8.97	154	0.350	-9.12	246	0.662	-3.58	338	0.905	-0.87
64	0.350	-9.12	156	0.340	-9.37	248	0.631	-4.00	340	0.933	-0.60
66	0.341	-9.34	158	0.326	-9.74	250	0.605	-4.36	342	0.957	-0.38
68	0.329	-9.66	160	0.309	-10.20	252	0.577	-4.78	344	0.975	-0.22
70	0.314	-10.06	162	0.291	-10.72	254	0.552	-5.16	346	0.992	-0.07
72	0.296	-10.57	164	0.272	-11.31	256	0.531	-5.50	348	0.998	-0.02
74	0.280	-11.06	166	0.254	-11.90	258	0.513	-5.80	350	1.000	0.00
76	0.264	-11.57	168	0.240	-12.40	260	0.498	-6.06	352	0.996	-0.03
78	0.249	-12.08	170	0.231	-12.73	262	0.487	-6.25	354	0.984	-0.14
80	0.238	-12.47	172	0.227	-12.88	264	0.477	-6.43	356	0.967	-0.29
82	0.230	-12.77	174	0.231	-12.73	266	0.470	-6.56	358	0.943	-0.51
84	0.226	-12.92	176	0.241	-12.36	268	0.464	-6.67	360	0.912	-0.80
86	0.226	-12.92	178	0.256	-11.84	270	0.458	-6.78			
88	0.230	-12.77	180	0.279	-11.09	272	0.455	-6.84			
90	0.238	-12.47	182	0.304	-10.34	274	0.453	-6.88			

## ELEVATION PATTERN

<b>TYPE:</b>	<b>ATW19H5V</b>	
<b>Directivity:</b>	<b>Numeric</b>	<b>dBd</b>
<b>Main Lobe:</b>	<b>22.00</b>	<b>13.42</b>
<b>Horizontal:</b>	<b>8.90</b>	<b>9.49</b>

<b>Frequency:</b>	<b>30 (DTV)</b>
<b>Location:</b>	<b>Fort Lauderdale, FL</b>
<b>Beam Tilt:</b>	<b>1.25</b>
<b>Polarization:</b>	<b>Vertical</b>



## TABULATED DATA FOR ELEVATION PATTERN

TYPE: ATW19H5V

-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
-5.00	0.264	-11.57	6.75	0.241	-12.36	27.00	0.018	-34.89	50.50	0.051	-25.85	74.00	0.067	-23.48
-4.75	0.259	-11.73	7.00	0.262	-11.63	27.50	0.012	-38.42	51.00	0.068	-23.35	74.50	0.069	-23.22
-4.50	0.241	-12.36	7.25	0.274	-11.24	28.00	0.022	-33.15	51.50	0.080	-21.94	75.00	0.070	-23.10
-4.25	0.212	-13.47	7.50	0.274	-11.24	28.50	0.027	-31.37	52.00	0.086	-21.31	75.50	0.070	-23.10
-4.00	0.181	-14.85	7.75	0.263	-11.60	29.00	0.019	-34.42	52.50	0.086	-21.31	76.00	0.068	-23.35
-3.75	0.161	-15.86	8.00	0.243	-12.29	29.50	0.013	-37.72	53.00	0.081	-21.83	76.50	0.065	-23.74
-3.50	0.167	-15.55	8.25	0.215	-13.35	30.00	0.036	-28.87	53.50	0.071	-22.97	77.00	0.061	-24.29
-3.25	0.201	-13.94	8.50	0.186	-14.61	30.50	0.067	-23.48	54.00	0.061	-24.29	77.50	0.056	-25.04
-3.00	0.246	-12.18	8.75	0.159	-15.97	31.00	0.093	-20.63	54.50	0.053	-25.51	78.00	0.051	-25.85
-2.75	0.290	-10.75	9.00	0.137	-17.27	31.50	0.110	-19.17	55.00	0.050	-26.02	78.50	0.045	-26.94
-2.50	0.324	-9.79	9.25	0.122	-18.27	32.00	0.114	-18.86	55.50	0.052	-25.68	79.00	0.039	-28.18
-2.25	0.341	-9.34	9.50	0.113	-18.94	32.50	0.107	-19.41	56.00	0.054	-25.35	79.50	0.034	-29.37
-2.00	0.338	-9.42	9.75	0.105	-19.58	33.00	0.092	-20.72	56.50	0.055	-25.19	80.00	0.029	-30.75
-1.75	0.316	-10.01	10.00	0.097	-20.26	33.50	0.074	-22.62	57.00	0.053	-25.51	80.50	0.025	-32.04
-1.50	0.279	-11.09	10.50	0.070	-23.10	34.00	0.061	-24.29	57.50	0.047	-26.56	81.00	0.021	-33.56
-1.25	0.245	-12.22	11.00	0.045	-26.94	34.50	0.051	-25.85	58.00	0.039	-28.18	81.50	0.018	-34.89
-1.00	0.241	-12.36	11.50	0.064	-23.88	35.00	0.043	-27.33	58.50	0.032	-29.90	82.00	0.017	-35.39
-0.75	0.295	-10.60	12.00	0.092	-20.72	35.50	0.033	-29.63	59.00	0.028	-31.06	82.50	0.017	-35.39
-0.50	0.392	-8.13	12.50	0.098	-20.18	36.00	0.021	-33.56	59.50	0.029	-30.75	83.00	0.017	-35.39
-0.25	0.512	-5.81	13.00	0.079	-22.05	36.50	0.016	-35.92	60.00	0.033	-29.63	83.50	0.017	-35.39
0.00	0.636	-3.93	13.50	0.062	-24.15	37.00	0.019	-34.42	60.50	0.037	-28.64	84.00	0.018	-34.89
0.25	0.752	-2.48	14.00	0.088	-21.11	37.50	0.021	-33.56	61.00	0.038	-28.40	84.50	0.018	-34.89
0.50	0.853	-1.38	14.50	0.132	-17.59	38.00	0.015	-36.48	61.50	0.035	-29.12	85.00	0.018	-34.89
0.75	0.931	-0.62	15.00	0.161	-15.86	38.50	0.002	-53.98	62.00	0.029	-30.75	85.50	0.018	-34.89
1.00	0.981	-0.17	15.50	0.165	-15.65	39.00	0.022	-33.15	62.50	0.020	-33.98	86.00	0.018	-34.89
1.25	1.000	0.00	16.00	0.146	-16.71	39.50	0.047	-26.56	63.00	0.008	-41.94	86.50	0.017	-35.39
1.50	0.988	-0.10	16.50	0.116	-18.71	40.00	0.070	-23.10	63.50	0.010	-40.00	87.00	0.015	-36.48
1.75	0.945	-0.49	17.00	0.087	-21.21	40.50	0.089	-21.01	64.00	0.024	-32.40	87.50	0.014	-37.08
2.00	0.878	-1.13	17.50	0.067	-23.48	41.00	0.099	-20.09	64.50	0.039	-28.18	88.00	0.012	-38.42
2.25	0.790	-2.05	18.00	0.049	-26.20	41.50	0.099	-20.09	65.00	0.052	-25.68	88.50	0.010	-40.00
2.50	0.691	-3.21	18.50	0.028	-31.06	42.00	0.092	-20.72	65.50	0.064	-23.88	89.00	0.008	-41.94
2.75	0.589	-4.60	19.00	0.014	-37.08	42.50	0.079	-22.05	66.00	0.073	-22.73	89.50	0.005	-46.02
3.00	0.497	-6.07	19.50	0.032	-29.90	43.00	0.066	-23.61	66.50	0.078	-22.16	90.00	0.003	-50.46
3.25	0.425	-7.43	20.00	0.046	-26.74	43.50	0.056	-25.04	67.00	0.081	-21.83			
3.50	0.383	-8.34	20.50	0.044	-27.13	44.00	0.052	-25.68	67.50	0.080	-21.94			
3.75	0.369	-8.66	21.00	0.031	-30.17	44.50	0.049	-26.20	68.00	0.076	-22.38			
4.00	0.371	-8.61	21.50	0.037	-28.64	45.00	0.045	-26.94	68.50	0.070	-23.10			
4.25	0.376	-8.50	22.00	0.072	-22.85	45.50	0.037	-28.64	69.00	0.061	-24.29			
4.50	0.372	-8.59	22.50	0.106	-19.49	46.00	0.029	-30.75	69.50	0.053	-25.51			
4.75	0.356	-8.97	23.00	0.128	-17.86	46.50	0.023	-32.77	70.00	0.044	-27.13			
5.00	0.327	-9.71	23.50	0.133	-17.52	47.00	0.023	-32.77	70.50	0.038	-28.40			
5.25	0.287	-10.84	24.00	0.122	-18.27	47.50	0.025	-32.04	71.00	0.036	-28.87			
5.50	0.245	-12.22	24.50	0.102	-19.83	48.00	0.024	-32.40	71.50	0.039	-28.18			
5.75	0.208	-13.64	25.00	0.079	-22.05	48.50	0.018	-34.89	72.00	0.044	-27.13			
6.00	0.189	-14.47	25.50	0.062	-24.15	49.00	0.005	-46.02	72.50	0.051	-25.85			
6.25	0.194	-14.24	26.00	0.048	-26.38	49.50	0.012	-38.42	73.00	0.057	-24.88			
6.50	0.215	-13.35	26.50	0.034	-29.37	50.00	0.031	-30.17	73.50	0.063	-24.01			