

# EXHIBIT A

## ANDREW AZIMUTH PATTERN CH3435AZH

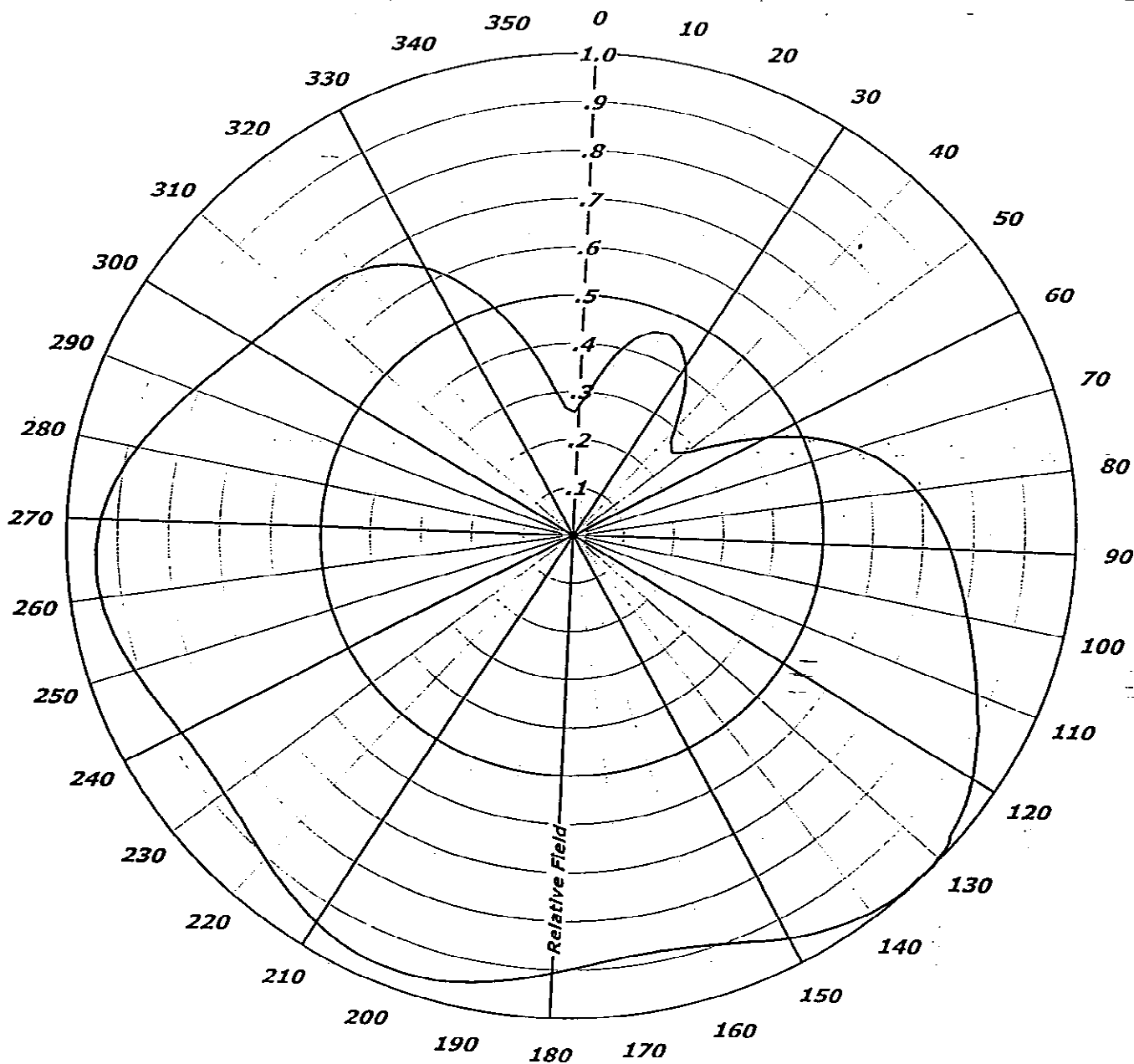
Type: \_\_\_\_\_  
Numeric dBd

Directivity: \_\_\_\_\_  
Peak(s) At: \_\_\_\_\_

Polarization: \_\_\_\_\_ Horizontal

Channel: \_\_\_\_\_ 34/35

Location: \_\_\_\_\_ Los Angeles, CA



ANDREW CORPORATION  
10500 W. 153rd Street  
Orland Park, Illinois U.S.A. 60462

ETC-13435 -22-

EXHIBIT B

**ANDREW**  
AZIMUTH PATTERN

Type: CH3435AZV  
Numeric dBd

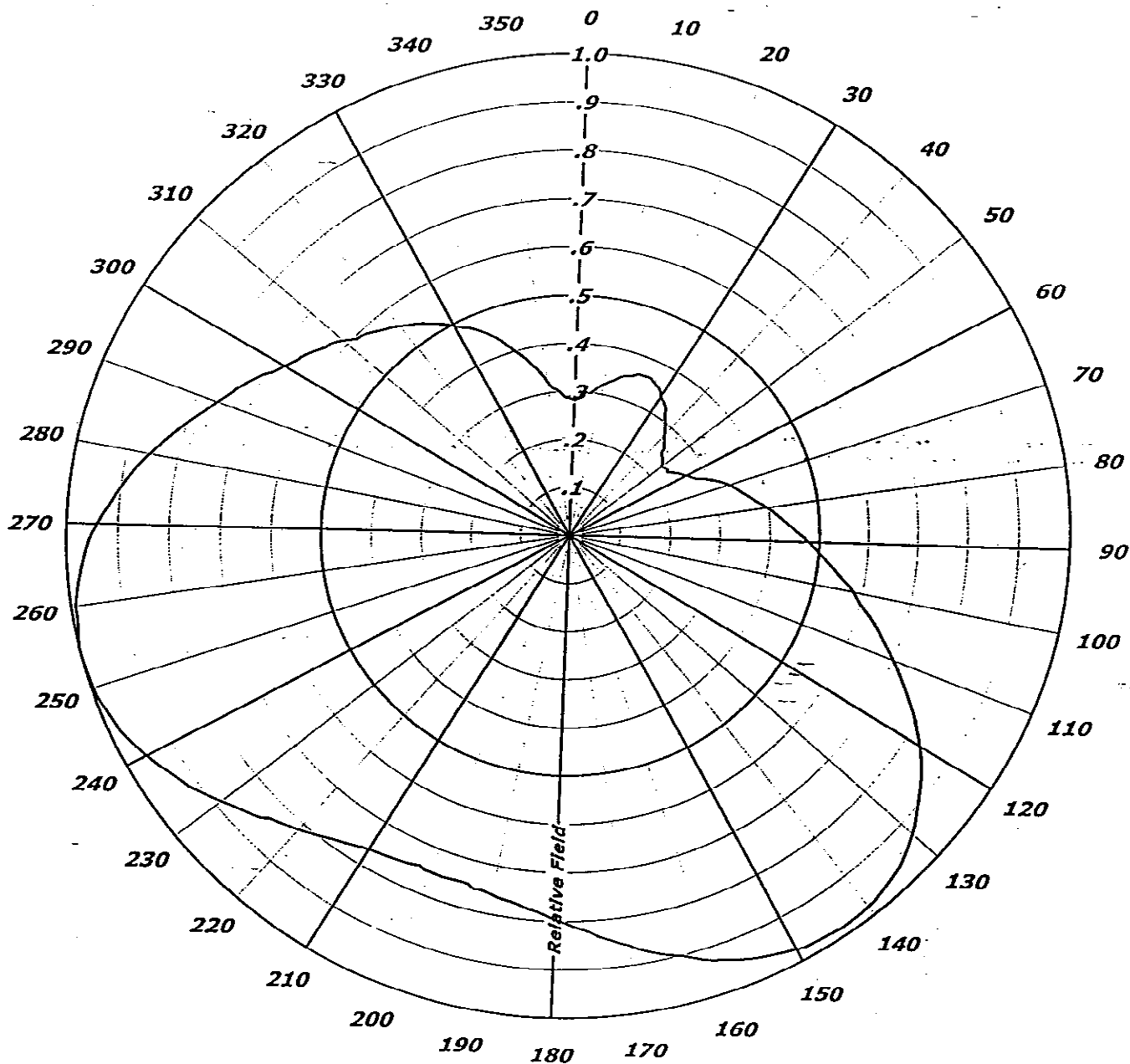
Directivity: \_\_\_\_\_

Peak(s) At: \_\_\_\_\_

Polarization: Vertical

Channel: 34/35

Location: Los Angeles, CA

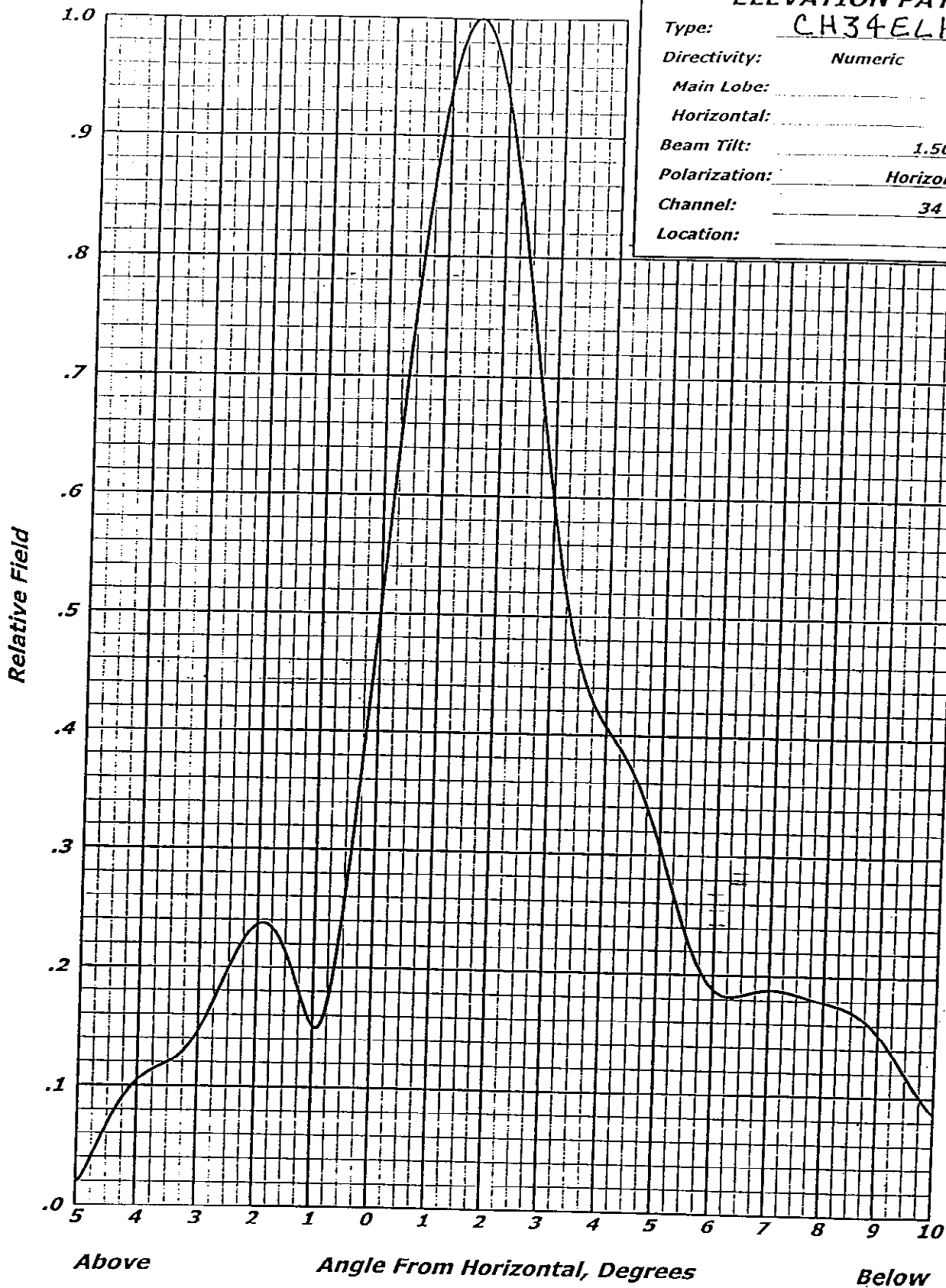


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# EXHIBIT C

## ANDREW ELEVATION PATTERN

Type: CH34ELH  
 Directivity: Numeric dBd  
 Main Lobe: \_\_\_\_\_  
 Horizontal: \_\_\_\_\_  
 Beam Tilt: 1.50  
 Polarization: Horizontal  
 Channel: 34  
 Location: \_\_\_\_\_

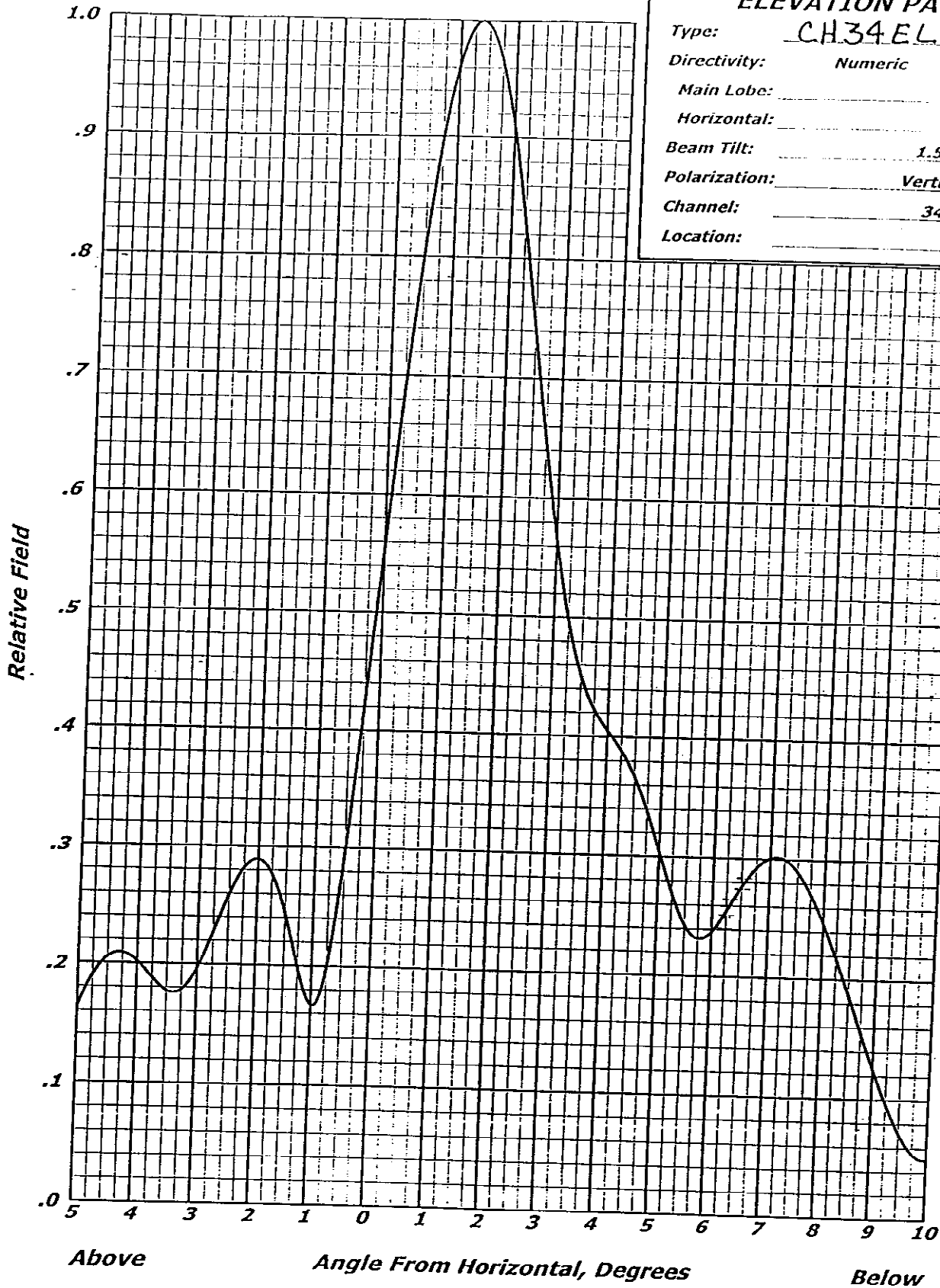


# EXHIBIT D



## ANDREW ELEVATION PATTERN

Type: CH34ELV  
 Directivity: Numeric dBd  
 Main Lobe: \_\_\_\_\_  
 Horizontal: \_\_\_\_\_  
 Beam Tilt: 1.50  
 Polarization: Vertical  
 Channel: 34  
 Location: \_\_\_\_\_



**TABULATED DATA FOR ELEVATION PATTERN  
TYPE ATW22HS6H**

ANGLE FIELD dB -5° TO 10°			ANGLE FIELD dB 10° TO 90°			ANGLE FIELD dB			ANGLE FIELD dB		
IN 0.25° INCREMENTS			IN 0.5° INCREMENTS								
-5.00	0.140	-17.08	9.75	0.110	-19.17	39.00	0.033	-29.63	68.50	0.031	-30.17
-4.75	0.150	-16.48	10.00	0.105	-19.58	39.50	0.033	-29.63	69.00	0.032	-29.90
-4.50	0.155	-16.19	10.50	0.097	-20.26	40.00	0.033	-29.63	69.50	0.033	-29.63
-4.25	0.152	-16.36	11.00	0.094	-20.54	40.50	0.033	-29.63	70.00	0.034	-29.37
-4.00	0.145	-16.77	11.50	0.092	-20.72	41.00	0.033	-29.63	70.50	0.036	-28.87
-3.75	0.138	-17.20	12.00	0.087	-21.21	41.50	0.032	-29.90	71.00	0.037	-28.64
-3.50	0.140	-17.08	12.50	0.081	-21.83	42.00	0.032	-29.90	71.50	0.038	-28.40
-3.25	0.159	-15.97	13.00	0.078	-22.16	42.50	0.033	-29.63	72.00	0.038	-28.40
-3.00	0.194	-14.24	13.50	0.077	-22.27	43.00	0.033	-29.63	72.50	0.037	-28.64
-2.75	0.236	-12.54	14.00	0.074	-22.62	43.50	0.033	-29.63	73.00	0.036	-28.87
-2.50	0.276	-11.18	14.50	0.070	-23.10	44.00	0.033	-29.63	73.50	0.034	-29.37
-2.25	0.307	-10.26	15.00	0.067	-23.48	44.50	0.032	-29.90	74.00	0.032	-29.90
-2.00	0.322	-9.84	15.50	0.066	-23.61	45.00	0.032	-29.90	74.50	0.029	-30.75
-1.75	0.318	-9.95	16.00	0.064	-23.88	45.50	0.032	-29.90	75.00	0.027	-31.37
-1.50	0.293	-10.66	16.50	0.062	-24.15	46.00	0.033	-29.63	75.50	0.026	-31.70
-1.25	0.249	-12.08	17.00	0.059	-24.58	46.50	0.033	-29.63	76.00	0.025	-32.04
-1.00	0.202	-13.89	17.50	0.057	-24.88	47.00	0.032	-29.90	76.50	0.025	-32.04
-0.75	0.188	-14.52	18.00	0.057	-24.88	47.50	0.032	-29.90	77.00	0.026	-31.70
-0.50	0.244	-12.25	18.50	0.055	-25.19	48.00	0.032	-29.90	77.50	0.027	-31.37
-0.25	0.351	-9.09	19.00	0.053	-25.51	48.50	0.032	-29.90	78.00	0.028	-31.06
0.00	0.480	-6.38	19.50	0.052	-25.68	49.00	0.033	-29.63	78.50	0.030	-30.46
0.25	0.612	-4.26	20.00	0.052	-25.68	49.50	0.033	-29.63	79.00	0.031	-30.17
0.50	0.736	-2.66	20.50	0.051	-25.85	50.00	0.033	-29.63	79.50	0.032	-29.90
0.75	0.843	-1.48	21.00	0.049	-26.20	50.50	0.032	-29.90	80.00	0.033	-29.63
1.00	0.925	-0.68	21.50	0.048	-26.38	51.00	0.032	-29.90	80.50	0.033	-29.63
1.25	0.978	-0.19	22.00	0.047	-26.56	51.50	0.032	-29.90	81.00	0.033	-29.63
1.50	1.000	0.00	22.50	0.047	-26.56	52.00	0.033	-29.63	81.50	0.032	-29.90
1.75	0.990	-0.09	23.00	0.046	-26.74	52.50	0.033	-29.63	82.00	0.032	-29.90
2.00	0.950	-0.45	23.50	0.045	-26.94	53.00	0.033	-29.63	82.50	0.031	-30.17
2.25	0.885	-1.06	24.00	0.044	-27.13	53.50	0.033	-29.63	83.00	0.029	-30.75
2.50	0.801	-1.93	24.50	0.044	-27.13	54.00	0.032	-29.90	83.50	0.028	-31.06
2.75	0.705	-3.04	25.00	0.043	-27.33	54.50	0.032	-29.90	84.00	0.026	-31.70
3.00	0.607	-4.34	25.50	0.042	-27.54	55.00	0.032	-29.90	84.50	0.024	-32.40
3.25	0.514	-5.78	26.00	0.041	-27.74	55.50	0.033	-29.63	85.00	0.022	-33.15
3.50	0.436	-7.21	26.50	0.040	-27.96	56.00	0.034	-29.37	85.50	0.020	-33.98
3.75	0.378	-8.45	27.00	0.041	-27.74	56.50	0.035	-29.12	86.00	0.018	-34.89
4.00	0.340	-9.37	27.50	0.041	-27.74	57.00	0.034	-29.37	86.50	0.015	-36.48
4.25	0.318	-9.95	28.00	0.040	-27.96	57.50	0.034	-29.37	87.00	0.013	-37.72
4.50	0.302	-10.40	28.50	0.039	-28.18	58.00	0.033	-29.63	87.50	0.011	-39.17
4.75	0.287	-10.84	29.00	0.038	-28.40	58.50	0.032	-29.90	88.00	0.009	-40.92
5.00	0.270	-11.37	29.50	0.038	-28.40	59.00	0.032	-29.90	88.50	0.007	-43.10
5.25	0.249	-12.08	30.00	0.038	-28.40	59.50	0.033	-29.63	89.00	0.004	-47.96
5.50	0.227	-12.88	30.50	0.038	-28.40	60.00	0.034	-29.37	89.50	0.002	-53.98
5.75	0.207	-13.68	31.00	0.037	-28.64	60.50	0.035	-29.12	90.00	0.000	-99.99
6.00	0.191	-14.38	31.50	0.037	-28.64	61.00	0.036	-28.87			
6.25	0.182	-14.80	32.00	0.037	-28.64	61.50	0.035	-29.12			
6.50	0.176	-15.09	32.50	0.037	-28.64	62.00	0.034	-29.37			
6.75	0.172	-15.29	33.00	0.036	-28.87	62.50	0.033	-29.63			
7.00	0.168	-15.49	33.50	0.035	-29.12	63.00	0.032	-29.90			
7.25	0.161	-15.86	34.00	0.035	-29.12	63.50	0.032	-29.90			
7.50	0.153	-16.31	34.50	0.035	-29.12	64.00	0.033	-29.63			
7.75	0.143	-16.89	35.00	0.035	-29.12	64.50	0.035	-29.12			
8.00	0.135	-17.39	35.50	0.035	-29.12	65.00	0.036	-28.87			
8.25	0.129	-17.79	36.00	0.034	-29.37	65.50	0.036	-28.87			
8.50	0.125	-18.06	36.50	0.034	-29.37	66.00	0.037	-28.64			
8.75	0.123	-18.20	37.00	0.034	-29.37	66.50	0.036	-28.87			
9.00	0.121	-18.34	37.50	0.034	-29.37	67.00	0.035	-29.12			
9.25	0.119	-18.49	38.00	0.034	-29.37	67.50	0.033	-29.63			
9.50	0.115	-18.79	38.50	0.034	-29.37	68.00	0.032	-29.90			



**Andrew Corporation**  
10500 W. 153rd Street  
Orland Park, Illinois U.S.A. 60462

AG020499-417 Rev. C -13-



# TABULATED DATA FOR ELEVATION PATTERN TYPE ATW19HS6V

ANGLE FIELD dB -5° TO 10°			ANGLE FIELD dB 10° TO 90°			ANGLE FIELD dB			ANGLE FIELD dB		
IN 0.25° INCREMENTS			IN 0.5° INCREMENTS								
-5.00	0.153	-16.31	9.75	0.122	-18.27	39.00	0.038	-28.40	68.50	0.041	-27.74
-4.75	0.150	-16.48	10.00	0.121	-18.34	39.50	0.038	-28.40	69.00	0.042	-27.54
-4.50	0.145	-16.77	10.50	0.116	-18.71	40.00	0.038	-28.40	69.50	0.043	-27.33
-4.25	0.145	-16.77	11.00	0.107	-19.41	40.50	0.037	-28.64	70.00	0.042	-27.54
-4.00	0.154	-16.25	11.50	0.099	-20.09	41.00	0.037	-28.64	70.50	0.041	-27.74
-3.75	0.173	-15.24	12.00	0.095	-20.45	41.50	0.037	-28.64	71.00	0.040	-27.96
-3.50	0.200	-13.98	12.50	0.094	-20.54	42.00	0.037	-28.64	71.50	0.038	-28.40
-3.25	0.231	-12.73	13.00	0.091	-20.82	42.50	0.037	-28.64	72.00	0.036	-28.87
-3.00	0.259	-11.73	13.50	0.085	-21.41	43.00	0.038	-28.40	72.50	0.034	-29.37
-2.75	0.281	-11.03	14.00	0.081	-21.83	43.50	0.037	-28.64	73.00	0.033	-29.63
-2.50	0.291	-10.72	14.50	0.079	-22.05	44.00	0.037	-28.64	73.50	0.032	-29.90
-2.25	0.287	-10.84	15.00	0.078	-22.16	44.50	0.037	-28.64	74.00	0.032	-29.90
-2.00	0.269	-11.40	15.50	0.075	-22.50	45.00	0.037	-28.64	74.50	0.032	-29.90
-1.75	0.238	-12.47	16.00	0.072	-22.85	45.50	0.037	-28.64	75.00	0.034	-29.37
-1.50	0.201	-13.94	16.50	0.069	-23.22	46.00	0.037	-28.64	75.50	0.035	-29.12
-1.25	0.180	-14.89	17.00	0.067	-23.48	46.50	0.037	-28.64	76.00	0.037	-28.64
-1.00	0.202	-13.89	17.50	0.067	-23.48	47.00	0.037	-28.64	76.50	0.038	-28.40
-0.75	0.272	-11.31	18.00	0.065	-23.74	47.50	0.036	-28.87	77.00	0.039	-28.18
-0.50	0.372	-8.59	18.50	0.063	-24.01	48.00	0.036	-28.87	77.50	0.040	-27.96
-0.25	0.484	-6.30	19.00	0.060	-24.44	48.50	0.036	-28.87	78.00	0.041	-27.74
0.00	0.599	-4.45	19.50	0.059	-24.58	49.00	0.036	-28.87	78.50	0.041	-27.74
0.25	0.708	-3.00	20.00	0.058	-24.73	49.50	0.037	-28.64	79.00	0.041	-27.74
0.50	0.806	-1.87	20.50	0.057	-24.88	50.00	0.037	-28.64	79.50	0.040	-27.96
0.75	0.888	-1.03	21.00	0.056	-25.04	50.50	0.037	-28.64	80.00	0.039	-28.18
1.00	0.949	-0.45	21.50	0.054	-25.35	51.00	0.037	-28.64	80.50	0.037	-28.64
1.25	0.987	-0.11	22.00	0.053	-25.51	51.50	0.036	-28.87	81.00	0.036	-28.87
1.50	1.000	0.00	22.50	0.053	-25.51	52.00	0.036	-28.87	81.50	0.034	-29.37
1.75	0.989	-0.10	23.00	0.053	-25.51	52.50	0.036	-28.87	82.00	0.032	-29.90
2.00	0.955	-0.40	23.50	0.051	-25.85	53.00	0.037	-28.64	82.50	0.030	-30.46
2.25	0.901	-0.91	24.00	0.050	-26.02	53.50	0.038	-28.40	83.00	0.028	-31.06
2.50	0.832	-1.60	24.50	0.049	-26.20	54.00	0.038	-28.40	83.50	0.025	-32.04
2.75	0.751	-2.49	25.00	0.048	-26.38	54.50	0.038	-28.40	84.00	0.023	-32.77
3.00	0.665	-3.54	25.50	0.048	-26.38	55.00	0.037	-28.64	84.50	0.021	-33.56
3.25	0.580	-4.73	26.00	0.047	-26.56	55.50	0.037	-28.64	85.00	0.019	-34.42
3.50	0.501	-6.00	26.50	0.046	-26.74	56.00	0.036	-28.87	85.50	0.017	-35.39
3.75	0.434	-7.25	27.00	0.045	-26.94	56.50	0.037	-28.64	86.00	0.015	-36.48
4.00	0.383	-8.34	27.50	0.045	-26.94	57.00	0.038	-28.40	86.50	0.013	-37.72
4.25	0.347	-9.19	28.00	0.045	-26.94	57.50	0.039	-28.18	87.00	0.011	-39.17
4.50	0.324	-9.79	28.50	0.044	-27.13	58.00	0.039	-28.18	87.50	0.009	-40.92
4.75	0.309	-10.20	29.00	0.044	-27.13	58.50	0.040	-27.96	88.00	0.007	-43.10
5.00	0.296	-10.57	29.50	0.043	-27.33	59.00	0.039	-28.18	88.50	0.005	-46.02
5.25	0.282	-11.00	30.00	0.043	-27.33	59.50	0.038	-28.40	89.00	0.003	-50.46
5.50	0.265	-11.54	30.50	0.042	-27.54	60.00	0.037	-28.64	89.50	0.002	-53.98
5.75	0.246	-12.18	31.00	0.042	-27.54	60.50	0.036	-28.87	90.00	0.000	-99.99
6.00	0.227	-12.88	31.50	0.041	-27.74	61.00	0.037	-28.64			
6.25	0.210	-13.56	32.00	0.041	-27.74	61.50	0.037	-28.64			
6.50	0.195	-14.20	32.50	0.040	-27.96	62.00	0.038	-28.40			
6.75	0.186	-14.61	33.00	0.040	-27.96	62.50	0.040	-27.96			
7.00	0.179	-14.94	33.50	0.040	-27.96	63.00	0.041	-27.74			
7.25	0.175	-15.14	34.00	0.040	-27.96	63.50	0.041	-27.74			
7.50	0.172	-15.29	34.50	0.039	-28.18	64.00	0.040	-27.96			
7.75	0.167	-15.55	35.00	0.039	-28.18	64.50	0.039	-28.18			
8.00	0.161	-15.86	35.50	0.039	-28.18	65.00	0.038	-28.40			
8.25	0.153	-16.31	36.00	0.039	-28.18	65.50	0.037	-28.64			
8.50	0.145	-16.77	36.50	0.039	-28.18	66.00	0.036	-28.87			
8.75	0.137	-17.27	37.00	0.039	-28.18	66.50	0.036	-28.87			
9.00	0.131	-17.65	37.50	0.038	-28.40	67.00	0.037	-28.64			
9.25	0.126	-17.99	38.00	0.038	-28.40	67.50	0.038	-28.40			
9.50	0.124	-18.13	38.50	0.038	-28.40	68.00	0.040	-27.96			



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