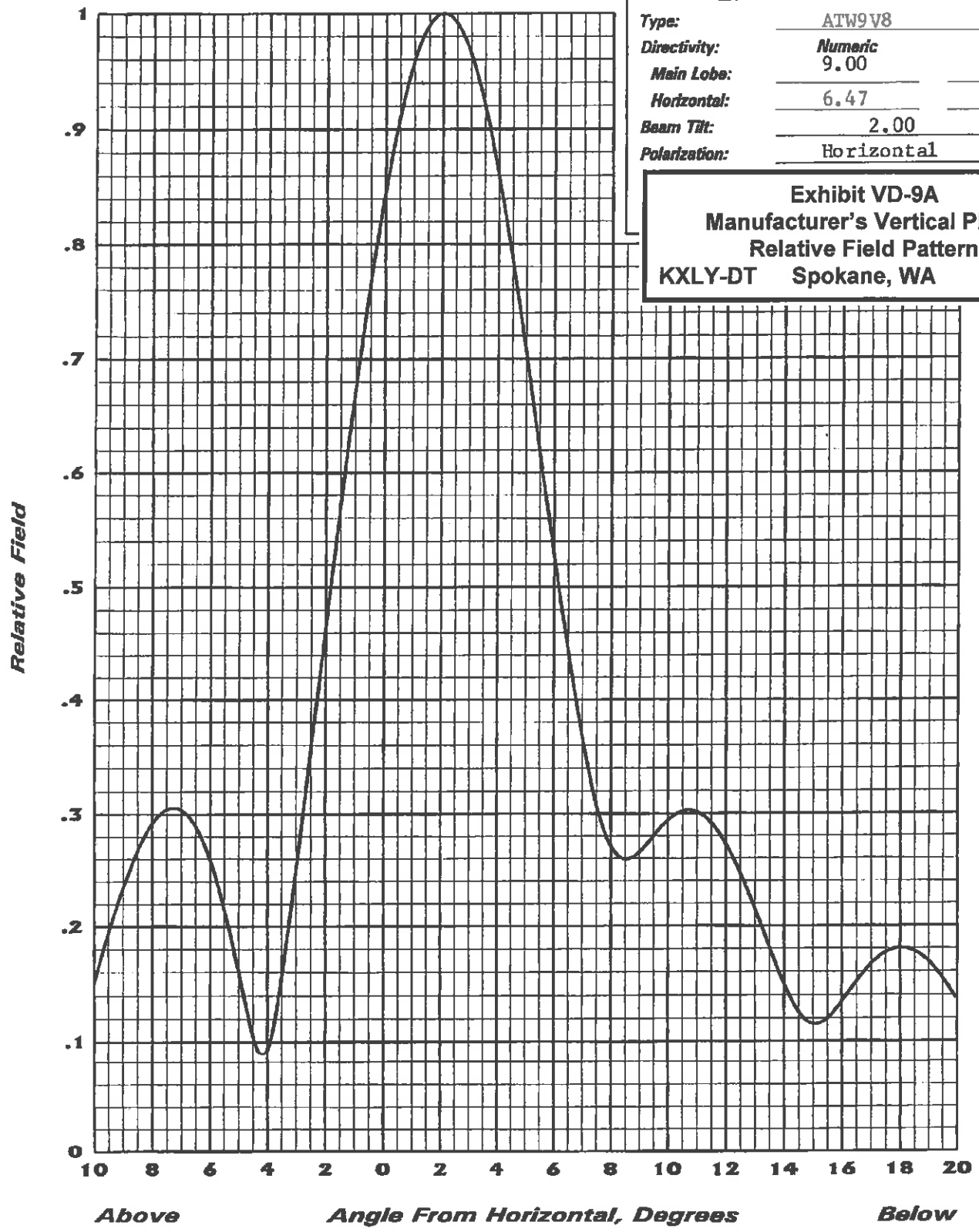
ANDREW

ELEVATION PATTERN

Type:	ATW9V8	
Directivity:	**Numeric**	**dBd**
Main Lobe:	9.00	9.54
Horizontal:	6.47	8.11
Beam Tilt:	2.00	
Polarization:	Horizontal	

Exhibit VD-9A
Manufacturer's Vertical Plane
Relative Field Pattern
KXLY-DT Spokane, WA 5/98



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

Exhibit VD-9B
Manufacturer's Vertical Plane
Relative Field Tabulation
KXLY-DT Spokane, WA 5/98

ANDREW

TABULATED DATA FOR ELEVATION PATTERN
TYPE ATW9V8

ANGLE	RELATIVE FIELD	dB	ANGLE	RELATIVE FIELD	dB	ANGLE	RELATIVE FIELD	dB	ANGLE	RELATIVE FIELD	dB
	-5° TO 10° IN 0.25° INCREMENTS			**10° TO 90° IN 0.5° INCREMENTS**							
-5.00	0.160	-15.90	10.00	0.294	-10.63	40.00	0.095	-20.49	70.00	0.060	-24.45
-4.75	0.131	-17.64	10.50	0.302	-10.40	40.50	0.101	-19.90	70.50	0.053	-25.53
-4.50	0.105	-19.58	11.00	0.301	-10.42	41.00	0.105	-19.58	71.00	0.046	-26.77
-4.25	0.089	-21.04	11.50	0.291	-10.71	41.50	0.106	-19.50	71.50	0.039	-28.19
-4.00	0.093	-20.67	12.00	0.273	-11.29	42.00	0.104	-19.66	72.00	0.032	-29.86
-3.75	0.118	-18.59	12.50	0.246	-12.17	42.50	0.099	-20.06	72.50	0.026	-31.87
-3.50	0.156	-16.14	13.00	0.215	-13.36	43.00	0.092	-20.71	73.00	0.019	-34.36
-3.25	0.201	-13.92	13.50	0.181	-14.85	43.50	0.083	-21.63	73.50	0.013	-37.66
-3.00	0.251	-12.01	14.00	0.149	-16.51	44.00	0.072	-22.86	74.00	0.008	-42.42
-2.75	0.303	-10.38	14.50	0.125	-18.03	44.50	0.060	-24.43	74.50	0.004	-48.84
-2.50	0.356	8.97	15.00	0.115	-18.78	45.00	0.048	-26.33	75.00	0.005	-45.60
-2.25	0.410	-7.74	15.50	0.120	-18.42	45.50	0.038	-28.34	75.50	0.009	-40.50
-2.00	0.465	-6.66	16.00	0.135	-17.43	46.00	0.033	-29.56	76.00	0.014	-37.30
-1.75	0.519	-5.71	16.50	0.152	-16.38	46.50	0.036	-28.96	76.50	0.018	-35.12
-1.50	0.571	-4.86	17.00	0.167	-15.57	47.00	0.044	-27.14	77.00	0.021	-33.52
-1.25	0.623	-4.11	17.50	0.177	-15.06	47.50	0.055	-25.22	77.50	0.024	-32.32
-1.00	0.673	-3.44	18.00	0.180	-14.88	48.00	0.066	-23.58	78.00	0.027	-31.40
-0.75	0.720	-2.85	18.50	0.178	-15.01	48.50	0.077	-22.28	78.50	0.029	-30.68
-0.50	0.765	-2.33	19.00	0.169	-15.47	49.00	0.086	-21.27	79.00	0.031	-30.14
-0.25	0.807	-1.86	19.50	0.154	-16.26	49.50	0.094	-20.52	79.50	0.033	-29.73
0.00	0.845	-1.46	20.00	0.135	-17.38	50.00	0.100	-19.99	80.00	0.034	-29.44
0.25	0.880	-1.11	20.50	0.114	-18.84	50.50	0.104	-19.65	80.50	0.035	-29.25
0.50	0.911	-0.81	21.00	0.094	-20.53	51.00	0.106	-19.50	81.00	0.035	-29.16
0.75	0.937	-0.57	21.50	0.079	-22.09	51.50	0.106	-19.53	81.50	0.035	-29.15
1.00	0.959	-0.36	22.00	0.073	-22.75	52.00	0.103	-19.72	82.00	0.035	-29.23
1.25	0.976	-0.21	22.50	0.078	-22.12	52.50	0.099	-20.09	82.50	0.034	-29.39
1.50	0.989	-0.10	23.00	0.091	-20.83	53.00	0.093	-20.63	83.00	0.033	-29.63
1.75	0.997	-0.03	23.50	0.106	-19.53	53.50	0.085	-21.38	83.50	0.032	-29.95
2.00	1.000	0.00	24.00	0.119	-18.51	54.00	0.076	-22.34	84.00	0.030	-30.36
2.25	0.998	-0.02	24.50	0.129	-17.82	54.50	0.066	-23.57	84.50	0.029	-30.86
2.50	0.992	-0.07	25.00	0.134	-17.46	55.00	0.056	-25.10	85.00	0.027	-31.46
2.75	0.980	-0.17	25.50	0.135	-17.42	55.50	0.045	-27.01	85.50	0.025	-32.17
3.00	0.965	-0.31	26.00	0.130	-17.69	56.00	0.034	-29.31	86.00	0.022	-33.02
3.25	0.944	-0.50	26.50	0.122	-18.29	56.50	0.026	-31.65	86.50	0.020	-34.03
3.50	0.920	-0.72	27.00	0.110	-19.21	57.00	0.024	-32.59	87.00	0.017	-35.24
3.75	0.892	-0.99	27.50	0.095	-20.49	57.50	0.028	-31.13	87.50	0.015	-36.71
4.00	0.860	-1.31	28.00	0.079	-22.10	58.00	0.036	-28.79	88.00	0.012	-38.56
4.25	0.825	-1.67	28.50	0.064	-23.90	58.50	0.047	-26.65	88.50	0.009	-40.99
4.50	0.788	-2.07	29.00	0.054	-25.32	59.00	0.057	-24.90	89.00	0.006	-44.47
4.75	0.748	-2.53	29.50	0.054	-25.43	59.50	0.067	-23.48	89.50	0.003	-50.46
5.00	0.706	-3.03	30.00	0.062	-24.23	60.00	0.076	-22.34	90.00	0.001	-57.63
5.25	0.662	-3.58	30.50	0.074	-22.64	60.50	0.085	-21.43			
5.50	0.618	-4.18	31.00	0.087	-21.22	61.00	0.092	-20.69			
5.75	0.573	-4.84	31.50	0.099	-20.13	61.50	0.099	-20.11			
6.00	0.529	-5.54	32.00	0.107	-19.38	62.00	0.104	-19.66			
6.25	0.485	-6.29	32.50	0.113	-18.95	62.50	0.108	-19.33			
6.50	0.443	-7.07	33.00	0.115	-18.80	63.00	0.111	-19.10			
6.75	0.404	-7.88	33.50	0.113	-18.95	63.50	0.113	-18.96			
7.00	0.367	-8.70	34.00	0.107	-19.38	64.00	0.113	-18.91			
7.25	0.335	-9.50	34.50	0.099	-20.10	64.50	0.113	-18.94			
7.50	0.308	-10.23	35.00	0.088	-21.15	65.00	0.112	-19.05			
7.75	0.287	-10.86	35.50	0.075	-22.54	65.50	0.109	-19.24			
8.00	0.271	-11.33	36.00	0.061	-24.27	66.00	0.106	-19.50			
8.25	0.263	-11.61	36.50	0.049	-26.15	66.50	0.102	-19.83			
8.50	0.260	-11.72	37.00	0.042	-27.50	67.00	0.097	-20.24			
8.75	0.261	-11.67	37.50	0.043	-27.32	67.50	0.092	-20.72			
9.00	0.266	-11.51	38.00	0.051	-25.84	68.00	0.086	-21.28			
9.25	0.273	-11.29	38.50	0.063	-24.08	68.50	0.080	-21.93			
9.50	0.280	-11.05	39.00	0.075	-22.55	69.00	0.074	-22.67			
9.75	0.288	-10.82	39.50	0.086	-21.36	69.50	0.067	-23.50			