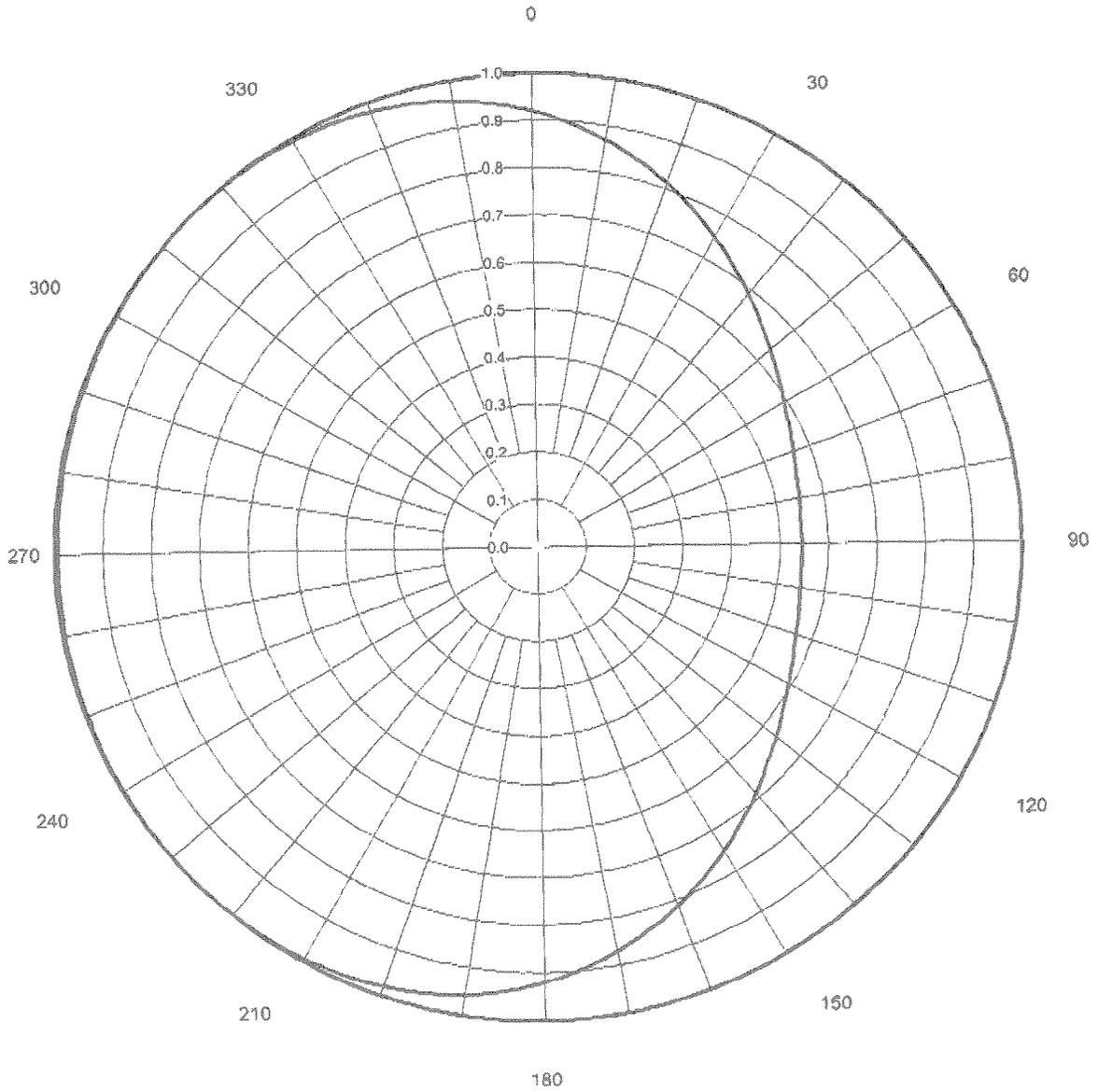




Exhibit 1a  
Proposal Number **DCA-8123**  
Date **13-Dec-98**  
Call Letters **WMVS-DT** Channel **8**  
Location **Milwaukee, WI**  
Customer  
Antenna Type **THV-6A8-R**

**AZIMUTH PATTERN**

Gain **1.37** (**1.37 dB**)  
Calculated / Measured **Calculated**  
Frequency **183.00 MHz**  
Drawing # **THV-C137-8**



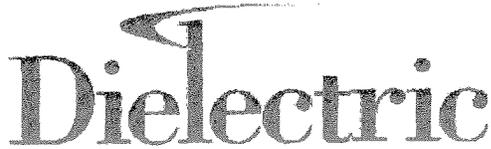


Exhibit 1b  
 Proposal Number **DCA-8123**  
 Date **13-Dec-98**  
 Call Letters **WMVS-DT** Channel **8**  
 Location **Milwaukee, WI**  
 Customer  
 Antenna Type **THV-6A8-R**

**TABULATION OF AZIMUTH PATTERN**

Azimuth Pattern Drawing #: **THV-C137-8**

Angle	Field														
0	0.919	45	0.661	90	0.545	135	0.661	180	0.919	225	1.000	270	0.994	315	1.000
1	0.915	46	0.655	91	0.545	136	0.666	181	0.923	226	1.000	271	0.994	316	1.000
2	0.910	47	0.650	92	0.545	137	0.671	182	0.928	227	1.000	272	0.994	317	1.000
3	0.906	48	0.645	93	0.545	138	0.677	183	0.932	228	1.000	273	0.994	318	1.000
4	0.901	49	0.640	94	0.545	139	0.683	184	0.935	229	1.000	274	0.994	319	1.000
5	0.896	50	0.635	95	0.546	140	0.689	185	0.939	230	1.000	275	0.994	320	0.999
6	0.891	51	0.630	96	0.546	141	0.694	186	0.943	231	1.000	276	0.994	321	0.999
7	0.886	52	0.626	97	0.547	142	0.700	187	0.946	232	1.000	277	0.994	322	0.999
8	0.881	53	0.621	98	0.548	143	0.706	188	0.950	233	0.999	278	0.994	323	0.998
9	0.876	54	0.617	99	0.549	144	0.712	189	0.953	234	0.999	279	0.994	324	0.998
10	0.870	55	0.612	100	0.549	145	0.719	190	0.956	235	0.999	280	0.994	325	0.997
11	0.865	56	0.608	101	0.551	146	0.725	191	0.959	236	0.999	281	0.994	326	0.997
12	0.859	57	0.604	102	0.552	147	0.731	192	0.962	237	0.999	282	0.994	327	0.996
13	0.854	58	0.601	103	0.553	148	0.737	193	0.965	238	0.998	283	0.985	328	0.995
14	0.848	59	0.597	104	0.554	149	0.743	194	0.967	239	0.998	284	0.995	329	0.995
15	0.842	60	0.593	105	0.556	150	0.750	195	0.970	240	0.998	285	0.995	330	0.994
16	0.836	61	0.590	106	0.557	151	0.756	196	0.972	241	0.998	286	0.995	331	0.993
17	0.830	62	0.587	107	0.559	152	0.762	197	0.974	242	0.998	287	0.995	332	0.992
18	0.824	63	0.583	108	0.561	153	0.769	198	0.976	243	0.997	288	0.995	333	0.991
19	0.818	64	0.580	109	0.563	154	0.775	199	0.978	244	0.997	289	0.996	334	0.990
20	0.812	65	0.578	110	0.565	155	0.781	200	0.980	245	0.997	290	0.996	335	0.988
21	0.806	66	0.575	111	0.567	156	0.787	201	0.982	246	0.997	291	0.996	336	0.987
22	0.800	67	0.572	112	0.570	157	0.794	202	0.984	247	0.996	292	0.996	337	0.985
23	0.794	68	0.570	113	0.572	158	0.800	203	0.985	248	0.996	293	0.996	338	0.984
24	0.787	69	0.567	114	0.575	159	0.806	204	0.987	249	0.996	294	0.997	339	0.982
25	0.781	70	0.565	115	0.578	160	0.812	205	0.988	250	0.996	295	0.997	340	0.980
26	0.775	71	0.563	116	0.580	161	0.818	206	0.990	251	0.996	296	0.997	341	0.978
27	0.769	72	0.561	117	0.583	162	0.824	207	0.991	252	0.995	297	0.997	342	0.976
28	0.762	73	0.559	118	0.587	163	0.830	208	0.992	253	0.995	298	0.998	343	0.974
29	0.756	74	0.557	119	0.590	164	0.836	209	0.993	254	0.995	299	0.998	344	0.972
30	0.750	75	0.556	120	0.593	165	0.842	210	0.994	255	0.995	300	0.998	345	0.970
31	0.743	76	0.554	121	0.597	166	0.848	211	0.995	256	0.995	301	0.998	346	0.967
32	0.737	77	0.553	122	0.601	167	0.854	212	0.995	257	0.995	302	0.998	347	0.965
33	0.731	78	0.552	123	0.604	168	0.859	213	0.996	258	0.994	303	0.999	348	0.962
34	0.725	79	0.551	124	0.608	169	0.865	214	0.997	259	0.994	304	0.999	349	0.959
35	0.719	80	0.549	125	0.612	170	0.870	215	0.997	260	0.994	305	0.999	350	0.956
36	0.712	81	0.549	126	0.617	171	0.876	216	0.998	261	0.994	306	0.999	351	0.953
37	0.706	82	0.548	127	0.621	172	0.881	217	0.998	262	0.994	307	0.999	352	0.950
38	0.700	83	0.547	128	0.626	173	0.886	218	0.999	263	0.994	308	1.000	353	0.946
39	0.694	84	0.546	129	0.630	174	0.891	219	0.999	264	0.994	309	1.000	354	0.943
40	0.689	85	0.546	130	0.635	175	0.896	220	0.999	265	0.994	310	1.000	355	0.939
41	0.683	86	0.545	131	0.640	176	0.901	221	1.000	266	0.994	311	1.000	356	0.935
42	0.677	87	0.545	132	0.645	177	0.906	222	1.000	267	0.994	312	1.000	357	0.932
43	0.671	88	0.545	133	0.650	178	0.910	223	1.000	268	0.994	313	1.000	358	0.928
44	0.666	89	0.545	134	0.655	179	0.915	224	1.000	269	0.994	314	1.000	359	0.923

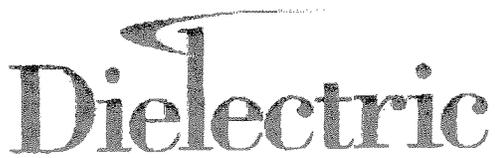


Exhibit 1c  
Proposal Number DCA-8123  
Date 13-Dec-98  
Call Letters WMVS-DT Channel 8  
Location Milwaukee, WI  
Customer  
Antenna Type THV-6A8-R

### ELEVATION PATTERN

RMS Gain at Main Lobe	6.0 (7.78 dB)	Beam Tilt	0.50 deg
RMS Gain at Horizontal	5.9 (7.71 dB)	Frequency	183.00 MHz
Calculated / Measured	Calculated	Drawing #	06V060050-90

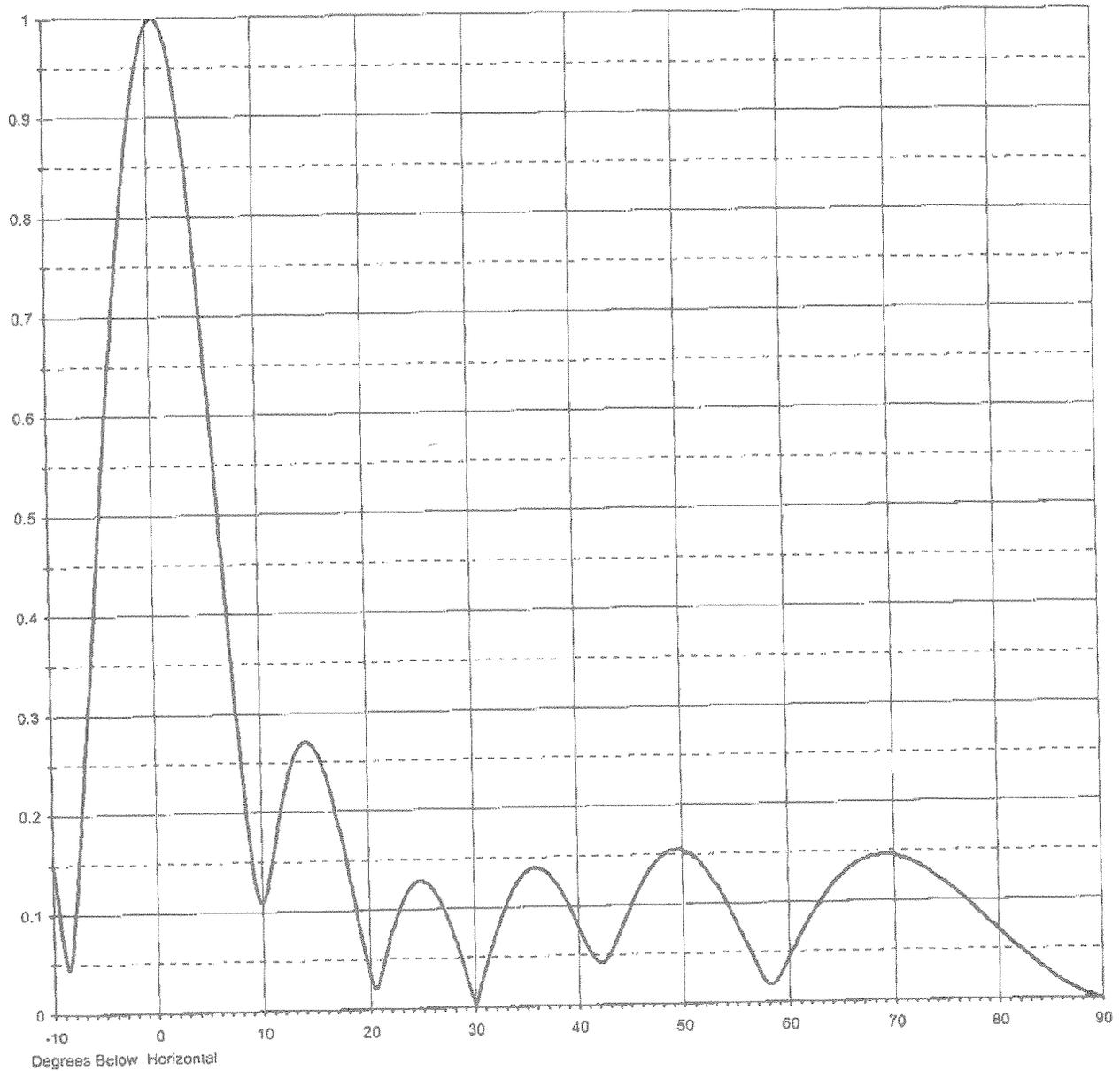




Exhibit 1d

Proposal Number **DCA-8123**  
 Date **13-Dec-98**  
 Call Letters **WMVS-DT** Channel **8**  
 Location **Milwaukee, WI**  
 Customer  
 Antenna Type **THV-6A8-R**

**TABULATION OF ELEVATION PATTERN**

Elevation Pattern Drawing #: **06V060050-90**

Angle	Field										
-10.0	0.150	2.4	0.939	10.6	0.125	30.5	0.015	51.0	0.149	71.5	0.141
-9.5	0.106	2.6	0.926	10.8	0.136	31.0	0.034	51.5	0.145	72.0	0.138
-9.0	0.062	2.8	0.911	11.0	0.147	31.5	0.052	52.0	0.139	72.5	0.135
-8.5	0.048	3.0	0.895	11.5	0.178	32.0	0.069	52.5	0.132	73.0	0.132
-8.0	0.091	3.2	0.878	12.0	0.206	32.5	0.084	53.0	0.124	73.5	0.129
-7.5	0.153	3.4	0.859	12.5	0.231	33.0	0.098	53.5	0.115	74.0	0.125
-7.0	0.222	3.6	0.840	13.0	0.249	33.5	0.110	54.0	0.105	74.5	0.121
-6.5	0.294	3.8	0.820	13.5	0.262	34.0	0.121	54.5	0.095	75.0	0.117
-6.0	0.367	4.0	0.798	14.0	0.269	34.5	0.129	55.0	0.084	75.5	0.113
-5.5	0.441	4.2	0.776	14.5	0.270	35.0	0.135	55.5	0.072	76.0	0.108
-5.0	0.515	4.4	0.753	15.0	0.266	35.5	0.138	56.0	0.061	76.5	0.104
-4.5	0.587	4.6	0.729	15.5	0.257	36.0	0.140	56.5	0.049	77.0	0.099
-4.0	0.656	4.8	0.704	16.0	0.242	36.5	0.139	57.0	0.038	77.5	0.094
-3.5	0.721	5.0	0.678	16.5	0.224	37.0	0.136	57.5	0.027	78.0	0.089
-3.0	0.781	5.2	0.652	17.0	0.202	37.5	0.130	58.0	0.019	78.5	0.084
-2.8	0.804	5.4	0.626	17.5	0.177	38.0	0.123	58.5	0.018	79.0	0.079
-2.6	0.825	5.6	0.599	18.0	0.151	38.5	0.115	59.0	0.024	79.5	0.075
-2.4	0.846	5.8	0.571	18.5	0.123	39.0	0.105	59.5	0.033	80.0	0.070
-2.2	0.865	6.0	0.544	19.0	0.094	39.5	0.093	60.0	0.044	80.5	0.065
-2.0	0.883	6.2	0.516	19.5	0.066	40.0	0.081	60.5	0.054	81.0	0.060
-1.8	0.900	6.4	0.487	20.0	0.040	40.5	0.069	61.0	0.064	81.5	0.055
-1.6	0.916	6.6	0.459	20.5	0.022	41.0	0.058	61.5	0.074	82.0	0.051
-1.4	0.930	6.8	0.431	21.0	0.029	41.5	0.048	62.0	0.083	82.5	0.046
-1.2	0.944	7.0	0.403	21.5	0.049	42.0	0.043	62.5	0.092	83.0	0.042
-1.0	0.956	7.2	0.375	22.0	0.069	42.5	0.043	63.0	0.100	83.5	0.037
-0.8	0.966	7.4	0.347	22.5	0.087	43.0	0.050	63.5	0.108	84.0	0.033
-0.6	0.975	7.6	0.320	23.0	0.102	43.5	0.060	64.0	0.114	84.5	0.029
-0.4	0.983	7.8	0.293	23.5	0.113	44.0	0.071	64.5	0.122	85.0	0.025
-0.2	0.989	8.0	0.267	24.0	0.122	44.5	0.083	65.0	0.127	85.5	0.022
0.0	0.994	8.2	0.242	24.5	0.127	45.0	0.095	65.5	0.132	86.0	0.018
0.2	0.998	8.4	0.218	25.0	0.128	45.5	0.107	66.0	0.136	86.5	0.015
0.4	1.000	8.6	0.195	25.5	0.126	46.0	0.117	66.5	0.139	87.0	0.012
0.6	1.000	8.8	0.173	26.0	0.121	46.5	0.127	67.0	0.142	87.5	0.009
0.8	0.999	9.0	0.154	26.5	0.114	47.0	0.135	67.5	0.144	88.0	0.006
1.0	0.997	9.2	0.137	27.0	0.103	47.5	0.142	68.0	0.145	88.5	0.004
1.2	0.993	9.4	0.124	27.5	0.090	48.0	0.147	68.5	0.146	89.0	0.002
1.4	0.987	9.6	0.114	28.0	0.075	48.5	0.151	69.0	0.147	89.5	0.001
1.6	0.980	9.8	0.111	28.5	0.059	49.0	0.154	69.5	0.146	90.0	0.000
1.8	0.972	10.0	0.109	29.0	0.041	49.5	0.155	70.0	0.146		
2.0	0.963	10.2	0.111	29.5	0.023	50.0	0.154	70.5	0.144		
2.2	0.952	10.4	0.117	30.0	0.004	50.5	0.152	71.0	0.143		