



Proposal Number

C-03969

Revision:

1

Date

31-Mar-10

Exhibit 2

Call Letters

WVTV

Channel

18

Location

Milwaukee, WI

Customer

Sinclair

Antenna Type

TFU-17JSC/VP-R SP 4C170

AZIMUTH PATTERN

Gain

1.70

(2.30 dB)

Frequency

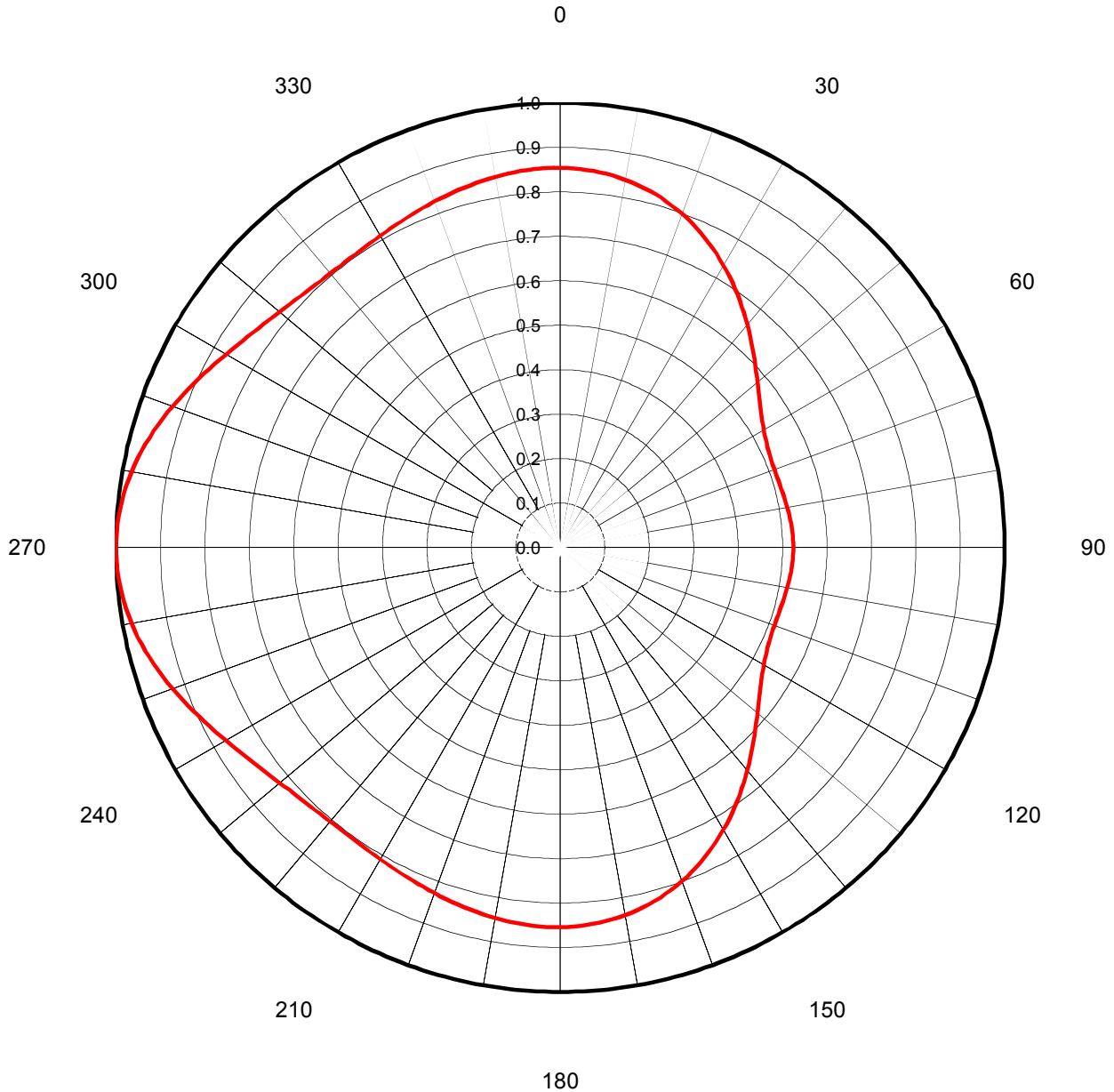
497.00 MHz

Calculated / Measured

Calculated

Drawing #

4C170-18H





Proposal Number **C-03969** Revision: **1**
Date **31-Mar-10** **Exhibit 3**
Call Letters **WTV** Channel **18**
Location **Milwaukee, WI**
Customer **Sinclair**
Antenna Type **TFU-17JSC/VP-R SP 4C170**

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **4C170-18H**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.854	45	0.615	90	0.524	135	0.615	180	0.854	225	0.812	270	1.000	315	0.812
1	0.854	46	0.607	91	0.524	136	0.623	181	0.854	226	0.813	271	1.000	316	0.810
2	0.853	47	0.600	92	0.524	137	0.630	182	0.854	227	0.816	272	0.999	317	0.808
3	0.852	48	0.593	93	0.524	138	0.638	183	0.854	228	0.818	273	0.998	318	0.807
4	0.852	49	0.586	94	0.523	139	0.646	184	0.853	229	0.821	274	0.997	319	0.806
5	0.850	50	0.579	95	0.523	140	0.654	185	0.852	230	0.824	275	0.995	320	0.805
6	0.849	51	0.573	96	0.522	141	0.663	186	0.852	231	0.828	276	0.993	321	0.805
7	0.847	52	0.566	97	0.521	142	0.671	187	0.851	232	0.831	277	0.990	322	0.805
8	0.845	53	0.561	98	0.520	143	0.679	188	0.849	233	0.835	278	0.987	323	0.805
9	0.843	54	0.555	99	0.520	144	0.687	189	0.848	234	0.839	279	0.983	324	0.805
10	0.840	55	0.550	100	0.519	145	0.695	190	0.847	235	0.844	280	0.980	325	0.805
11	0.837	56	0.545	101	0.518	146	0.703	191	0.845	236	0.848	281	0.976	326	0.806
12	0.834	57	0.540	102	0.517	147	0.711	192	0.843	237	0.853	282	0.972	327	0.807
13	0.831	58	0.536	103	0.516	148	0.719	193	0.842	238	0.858	283	0.967	328	0.808
14	0.827	59	0.532	104	0.515	149	0.726	194	0.840	239	0.864	284	0.962	329	0.809
15	0.823	60	0.528	105	0.514	150	0.734	195	0.838	240	0.869	285	0.957	330	0.810
16	0.819	61	0.526	106	0.514	151	0.741	196	0.836	241	0.875	286	0.952	331	0.811
17	0.814	62	0.523	107	0.513	152	0.749	197	0.834	242	0.880	287	0.946	332	0.813
18	0.810	63	0.520	108	0.513	153	0.756	198	0.832	243	0.886	288	0.940	333	0.815
19	0.804	64	0.518	109	0.513	154	0.762	199	0.830	244	0.892	289	0.935	334	0.816
20	0.799	65	0.517	110	0.513	155	0.769	200	0.828	245	0.898	290	0.929	335	0.818
21	0.794	66	0.515	111	0.513	156	0.776	201	0.826	246	0.904	291	0.923	336	0.820
22	0.788	67	0.514	112	0.513	157	0.782	202	0.824	247	0.911	292	0.917	337	0.822
23	0.782	68	0.513	113	0.514	158	0.788	203	0.822	248	0.917	293	0.911	338	0.824
24	0.776	69	0.513	114	0.515	159	0.794	204	0.820	249	0.923	294	0.904	339	0.826
25	0.769	70	0.513	115	0.517	160	0.799	205	0.818	250	0.929	295	0.898	340	0.828
26	0.762	71	0.513	116	0.518	161	0.804	206	0.816	251	0.935	296	0.892	341	0.830
27	0.756	72	0.513	117	0.520	162	0.810	207	0.815	252	0.940	297	0.886	342	0.832
28	0.749	73	0.513	118	0.523	163	0.814	208	0.813	253	0.946	298	0.880	343	0.834
29	0.741	74	0.514	119	0.526	164	0.819	209	0.811	254	0.952	299	0.875	344	0.836
30	0.734	75	0.514	120	0.528	165	0.823	210	0.810	255	0.957	300	0.869	345	0.838
31	0.726	76	0.515	121	0.532	166	0.827	211	0.809	256	0.962	301	0.864	346	0.840
32	0.719	77	0.516	122	0.536	167	0.831	212	0.808	257	0.967	302	0.858	347	0.842
33	0.711	78	0.517	123	0.540	168	0.834	213	0.807	258	0.972	303	0.853	348	0.843
34	0.703	79	0.518	124	0.545	169	0.837	214	0.806	259	0.976	304	0.848	349	0.845
35	0.695	80	0.519	125	0.550	170	0.840	215	0.805	260	0.980	305	0.844	350	0.847
36	0.687	81	0.520	126	0.555	171	0.843	216	0.805	261	0.983	306	0.839	351	0.848
37	0.679	82	0.520	127	0.561	172	0.845	217	0.805	262	0.987	307	0.835	352	0.849
38	0.671	83	0.521	128	0.566	173	0.847	218	0.805	263	0.990	308	0.831	353	0.851
39	0.663	84	0.522	129	0.573	174	0.849	219	0.805	264	0.993	309	0.828	354	0.852
40	0.654	85	0.523	130	0.579	175	0.850	220	0.805	265	0.995	310	0.824	355	0.852
41	0.646	86	0.523	131	0.586	176	0.852	221	0.806	266	0.997	311	0.821	356	0.853
42	0.638	87	0.524	132	0.593	177	0.852	222	0.807	267	0.998	312	0.818	357	0.854
43	0.630	88	0.524	133	0.600	178	0.853	223	0.808	268	0.999	313	0.816	358	0.854
44	0.623	89	0.524	134	0.607	179	0.854	224	0.810	269	1.000	314	0.813	359	0.854

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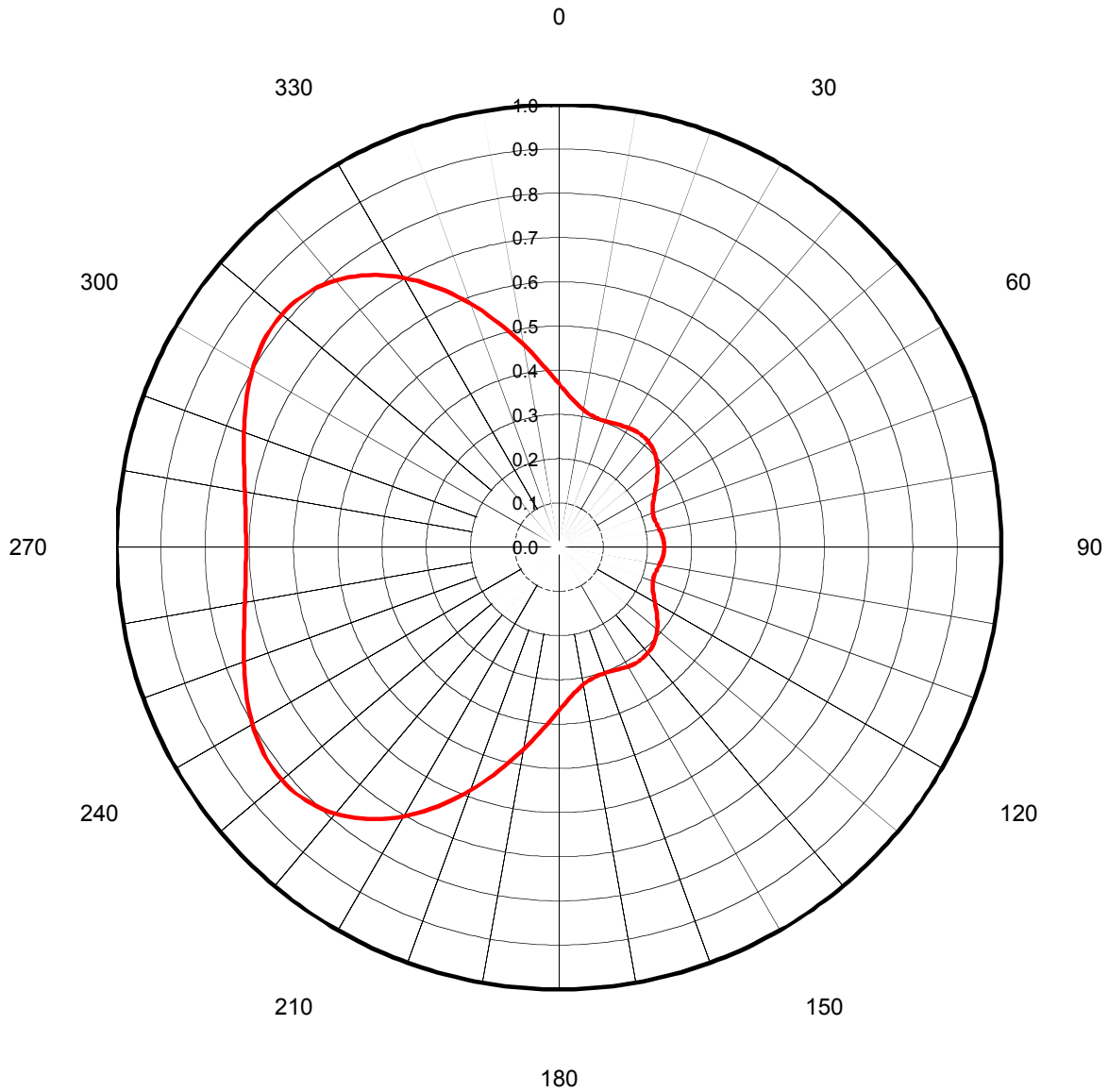


Proposal Number	C-03969	Revision:	1
Date	31-Mar-10	Exhibit 4	
Call Letters	WVTV	Channel	18
Location	Milwaukee, WI		
Customer	Sinclair		
Antenna Type	TFU-17JSC/VP-R SP 4C170		

AZIMUTH PATTERN/VERTICAL POLARIZATION

Gain	2.30	(3.62 dB)
Calculated / Measured	Calculated	

Frequency	497.00 MHz
Drawing #	4C170-18V





Proposal Number **C-03969** Revision: **1**
Date **31-Mar-10** **Exhibit 5**
Call Letters **WVTV** Channel **18**
Location **Milwaukee, WI**
Customer **Sinclair**
Antenna Type **TFU-17JSC/VP-R SP 4C170**

TABULATION OF AZIMUTH PATTERN/VERTICAL POLARIZATION

Azimuth Pattern Drawing #: **4C170-18V**

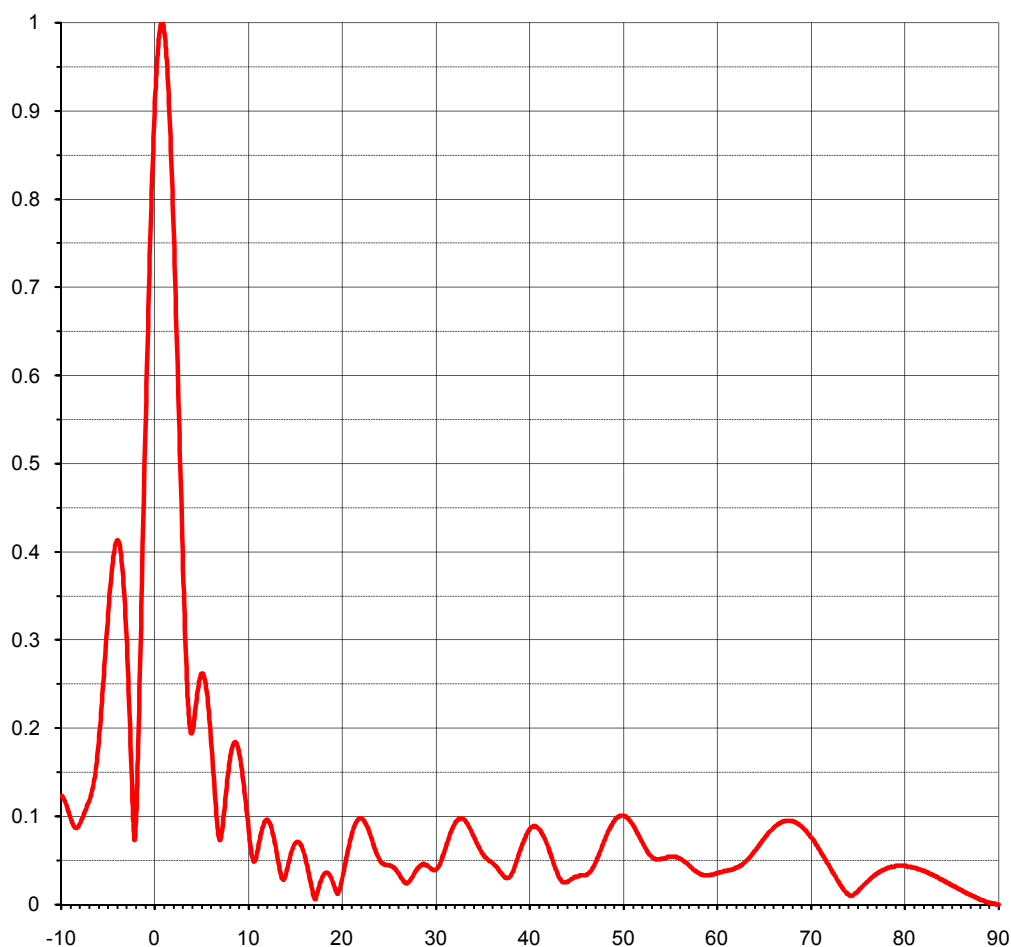
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.370	45	0.304	90	0.238	135	0.304	180	0.370	225	0.810	270	0.708	315	0.810
1	0.362	46	0.302	91	0.238	136	0.307	181	0.377	226	0.812	271	0.708	316	0.806
2	0.355	47	0.299	92	0.238	137	0.309	182	0.386	227	0.815	272	0.708	317	0.802
3	0.349	48	0.296	93	0.237	138	0.310	183	0.394	228	0.816	273	0.709	318	0.798
4	0.343	49	0.293	94	0.237	139	0.312	184	0.403	229	0.818	274	0.710	319	0.793
5	0.337	50	0.290	95	0.236	140	0.313	185	0.413	230	0.818	275	0.711	320	0.787
6	0.332	51	0.286	96	0.235	141	0.314	186	0.423	231	0.818	276	0.712	321	0.781
7	0.327	52	0.282	97	0.234	142	0.314	187	0.433	232	0.818	277	0.714	322	0.774
8	0.323	53	0.279	98	0.233	143	0.315	188	0.443	233	0.817	278	0.716	323	0.767
9	0.319	54	0.275	99	0.232	144	0.315	189	0.454	234	0.816	279	0.719	324	0.759
10	0.316	55	0.271	100	0.231	145	0.315	190	0.465	235	0.814	280	0.721	325	0.751
11	0.313	56	0.267	101	0.229	146	0.315	191	0.476	236	0.812	281	0.724	326	0.742
12	0.310	57	0.262	102	0.228	147	0.314	192	0.488	237	0.810	282	0.727	327	0.733
13	0.308	58	0.258	103	0.227	148	0.314	193	0.500	238	0.807	283	0.730	328	0.723
14	0.306	59	0.255	104	0.226	149	0.313	194	0.512	239	0.804	284	0.734	329	0.713
15	0.305	60	0.251	105	0.226	150	0.312	195	0.524	240	0.800	285	0.737	330	0.703
16	0.304	61	0.247	106	0.225	151	0.311	196	0.536	241	0.797	286	0.741	331	0.692
17	0.303	62	0.244	107	0.225	152	0.310	197	0.548	242	0.793	287	0.745	332	0.681
18	0.303	63	0.240	108	0.225	153	0.309	198	0.561	243	0.789	288	0.749	333	0.670
19	0.303	64	0.237	109	0.225	154	0.308	199	0.573	244	0.784	289	0.753	334	0.658
20	0.303	65	0.235	110	0.226	155	0.307	200	0.586	245	0.780	290	0.758	335	0.647
21	0.304	66	0.232	111	0.227	156	0.306	201	0.598	246	0.776	291	0.762	336	0.635
22	0.304	67	0.230	112	0.229	157	0.305	202	0.610	247	0.771	292	0.767	337	0.622
23	0.305	68	0.229	113	0.230	158	0.304	203	0.622	248	0.767	293	0.771	338	0.610
24	0.306	69	0.227	114	0.232	159	0.304	204	0.635	249	0.762	294	0.776	339	0.598
25	0.307	70	0.226	115	0.235	160	0.303	205	0.647	250	0.758	295	0.780	340	0.586
26	0.308	71	0.225	116	0.237	161	0.303	206	0.658	251	0.753	296	0.784	341	0.573
27	0.309	72	0.225	117	0.240	162	0.303	207	0.670	252	0.749	297	0.789	342	0.561
28	0.310	73	0.225	118	0.244	163	0.303	208	0.681	253	0.745	298	0.793	343	0.548
29	0.311	74	0.225	119	0.247	164	0.304	209	0.692	254	0.741	299	0.797	344	0.536
30	0.312	75	0.226	120	0.251	165	0.305	210	0.703	255	0.737	300	0.800	345	0.524
31	0.313	76	0.226	121	0.255	166	0.306	211	0.713	256	0.734	301	0.804	346	0.512
32	0.314	77	0.227	122	0.258	167	0.308	212	0.723	257	0.730	302	0.807	347	0.500
33	0.314	78	0.228	123	0.262	168	0.310	213	0.733	258	0.727	303	0.810	348	0.488
34	0.315	79	0.229	124	0.267	169	0.313	214	0.742	259	0.724	304	0.812	349	0.476
35	0.315	80	0.231	125	0.271	170	0.316	215	0.751	260	0.721	305	0.814	350	0.465
36	0.315	81	0.232	126	0.275	171	0.319	216	0.759	261	0.719	306	0.816	351	0.454
37	0.315	82	0.233	127	0.279	172	0.323	217	0.767	262	0.716	307	0.817	352	0.443
38	0.314	83	0.234	128	0.282	173	0.327	218	0.774	263	0.714	308	0.818	353	0.433
39	0.314	84	0.235	129	0.286	174	0.332	219	0.781	264	0.712	309	0.818	354	0.423
40	0.313	85	0.236	130	0.290	175	0.337	220	0.787	265	0.711	310	0.818	355	0.413
41	0.312	86	0.237	131	0.293	176	0.343	221	0.792	266	0.710	311	0.818	356	0.403
42	0.310	87	0.237	132	0.296	177	0.349	222	0.798	267	0.709	312	0.816	357	0.394
43	0.309	88	0.238	133	0.299	178	0.355	223	0.802	268	0.708	313	0.815	358	0.386
44	0.307	89	0.238	134	0.302	179	0.362	224	0.806	269	0.708	314	0.812	359	0.377



Proposal Number	C-03969	Revision:	1
Date	31-Mar-10	Exhibit 6	
Call Letters	WVTV	Channel	18
Location	Milwaukee, WI		
Customer	Sinclair		
Antenna Type	TFU-17JSC/VP-R SP 4C170		

ELEVATION PATTERN

RMS Gain at Main Lobe	16.50 (12.17 dB)	Beam Tilt	0.75 deg
RMS Gain at Horizontal	13.60 (11.34 dB)	Frequency	497.00 MHz
Calculated / Measured	Calculated	Drawing #	17Z16507-90

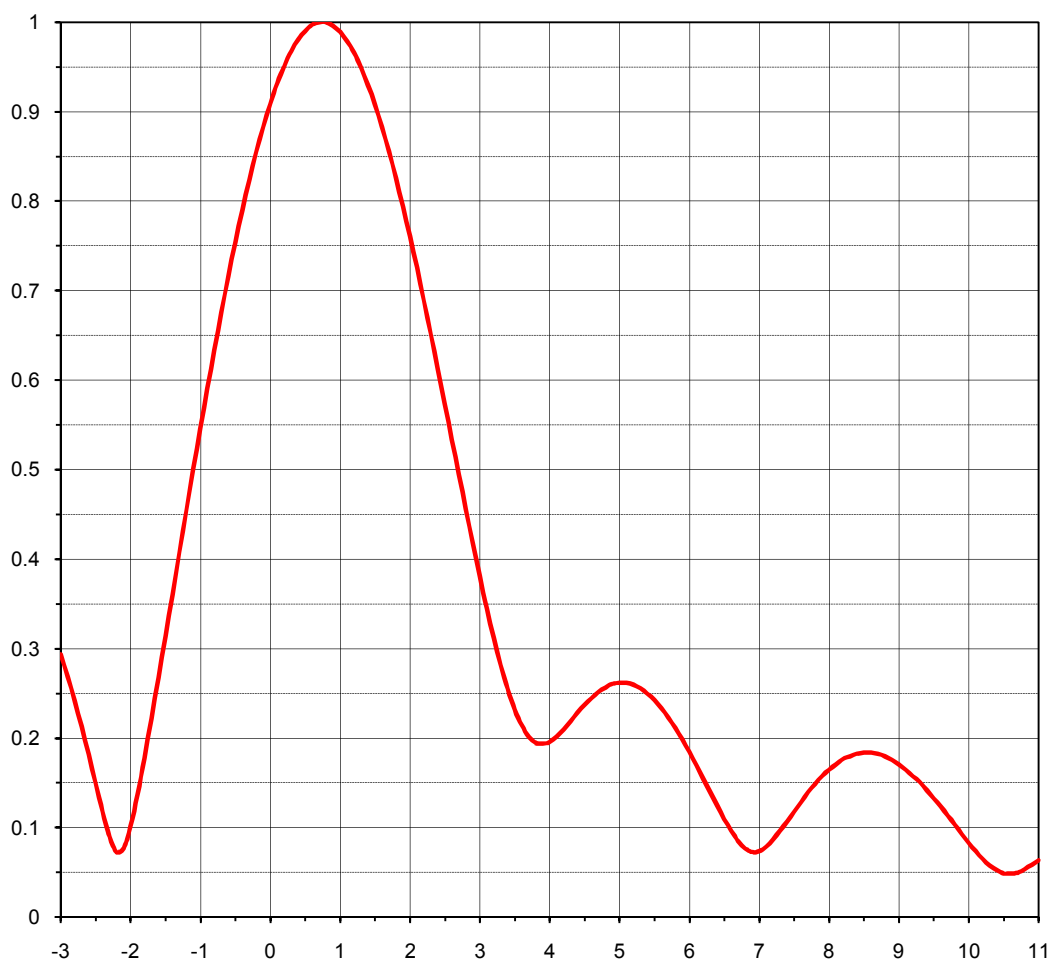




Proposal Number	C-03969	Revision:	1
Date	31-Mar-10	Exhibit 7	
Call Letters	WVTV	Channel	18
Location	Milwaukee, WI		
Customer	Sinclair		
Antenna Type	TFU-17JSC/VP-R SP 4C170		

ELEVATION PATTERN

RMS Gain at Main Lobe	16.50 (12.17 dB)	Beam Tilt	0.75 deg
RMS Gain at Horizontal	13.60 (11.34 dB)	Frequency	497.00 MHz
Calculated / Measured	Calculated	Drawing #	17Z16507



Degrees Below Horizontal



Proposal Number **C-03969** Revision: **1**
 Date **31-Mar-10** **Exhibit 8**
 Call Letters **WVTV** Channel **18**
 Location **Milwaukee, WI**
 Customer **Sinclair**
 Antenna Type **TFU-17JSC/VP-R SP 4C170**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **17Z16507-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.123	2.4	0.613	10.6	0.049	30.5	0.046	51.0	0.091	71.5	0.051
-9.5	0.114	2.6	0.534	10.8	0.050	31.0	0.061	51.5	0.082	72.0	0.042
-9.0	0.098	2.8	0.456	11.0	0.059	31.5	0.078	52.0	0.072	72.5	0.033
-8.5	0.087	3.0	0.381	11.5	0.084	32.0	0.090	52.5	0.062	73.0	0.024
-8.0	0.092	3.2	0.312	12.0	0.096	32.5	0.097	53.0	0.055	73.5	0.016
-7.5	0.105	3.4	0.255	12.5	0.088	33.0	0.097	53.5	0.051	74.0	0.011
-7.0	0.118	3.6	0.215	13.0	0.064	33.5	0.090	54.0	0.051	74.5	0.011
-6.5	0.140	3.8	0.195	13.5	0.035	34.0	0.079	54.5	0.053	75.0	0.015
-6.0	0.185	4.0	0.196	14.0	0.032	34.5	0.068	55.0	0.054	75.5	0.021
-5.5	0.253	4.2	0.210	14.5	0.054	35.0	0.058	55.5	0.054	76.0	0.026
-5.0	0.329	4.4	0.229	15.0	0.069	35.5	0.052	56.0	0.053	76.5	0.031
-4.5	0.389	4.6	0.245	15.5	0.070	36.0	0.048	56.5	0.049	77.0	0.035
-4.0	0.413	4.8	0.257	16.0	0.058	36.5	0.043	57.0	0.045	77.5	0.038
-3.5	0.384	5.0	0.262	16.5	0.035	37.0	0.036	57.5	0.040	78.0	0.041
-3.0	0.294	5.2	0.260	17.0	0.010	37.5	0.030	58.0	0.036	78.5	0.043
-2.8	0.242	5.4	0.250	17.5	0.017	38.0	0.032	58.5	0.034	79.0	0.044
-2.6	0.182	5.6	0.234	18.0	0.032	38.5	0.044	59.0	0.033	79.5	0.044
-2.4	0.118	5.8	0.212	18.5	0.036	39.0	0.060	59.5	0.034	80.0	0.044
-2.2	0.073	6.0	0.185	19.0	0.027	39.5	0.074	60.0	0.035	80.5	0.043
-2.0	0.102	6.2	0.155	19.5	0.013	40.0	0.084	60.5	0.037	81.0	0.042
-1.8	0.178	6.4	0.125	20.0	0.026	40.5	0.089	61.0	0.038	81.5	0.040
-1.6	0.268	6.6	0.097	20.5	0.052	41.0	0.086	61.5	0.039	82.0	0.038
-1.4	0.361	6.8	0.077	21.0	0.076	41.5	0.078	62.0	0.041	82.5	0.036
-1.2	0.455	7.0	0.074	21.5	0.092	42.0	0.066	62.5	0.044	83.0	0.033
-1.0	0.546	7.2	0.087	22.0	0.098	42.5	0.051	63.0	0.048	83.5	0.031
-0.8	0.634	7.4	0.107	22.5	0.093	43.0	0.036	63.5	0.053	84.0	0.028
-0.6	0.716	7.6	0.129	23.0	0.081	43.5	0.026	64.0	0.060	84.5	0.025
-0.4	0.790	7.8	0.149	23.5	0.065	44.0	0.025	64.5	0.068	85.0	0.022
-0.2	0.855	8.0	0.165	24.0	0.052	44.5	0.029	65.0	0.075	85.5	0.019
0.0	0.909	8.2	0.177	24.5	0.046	45.0	0.032	65.5	0.082	86.0	0.016
0.2	0.951	8.4	0.183	25.0	0.045	45.5	0.033	66.0	0.087	86.5	0.013
0.4	0.981	8.6	0.184	25.5	0.042	46.0	0.033	66.5	0.091	87.0	0.011
0.6	0.997	8.8	0.180	26.0	0.036	46.5	0.037	67.0	0.094	87.5	0.008
0.8	1.000	9.0	0.171	26.5	0.028	47.0	0.046	67.5	0.095	88.0	0.006
1.0	0.989	9.2	0.158	27.0	0.024	47.5	0.058	68.0	0.094	88.5	0.004
1.2	0.966	9.4	0.142	27.5	0.030	48.0	0.072	68.5	0.092	89.0	0.002
1.4	0.930	9.6	0.124	28.0	0.039	48.5	0.084	69.0	0.088	89.5	0.001
1.6	0.883	9.8	0.114	28.5	0.045	49.0	0.094	69.5	0.083	90.0	0.000
1.8	0.826	10.0	0.093	29.0	0.045	49.5	0.099	70.0	0.076		
2.0	0.761	10.2	0.074	29.5	0.041	50.0	0.101	70.5	0.068		
2.2	0.689	10.4	0.058	30.0	0.039	50.5	0.098	71.0	0.060		

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