



## Exhibit 34

Proposal #: **DCA-10051-1** Antenna Type: **TUA-O4-14/56H-1-T**  
 Call Letters: **WNIT** Location: **South Bend, IN**

Channel: **35 DTV**

Electrical Specifications		Value		Remarks
		Ratio	dB	
RMS Gain at Main Lobe over Halfwave Dipole	Hpol	28.8	14.59	
	Vpol			
RMS Gain at Horizontal over Halfwave Dipole	Hpol	21.0	13.22	
	Vpol			
Peak Directional Gain over Halfwave Dipole	Hpol			
	Vpol			
Peak Directional Gain at Horizontal over Halfwave Dipole	Hpol			
	Vpol			
Circularity		+/- 2.0 dB		
Axial Ratio		dB		
Beam Tilt		0.50 deg		
Average Power	DTV	20 kW	13.01 dBk	
Antenna Input:	T/L	3-1/8 in	50.0 ohm	Type: EIA/DCA
Maximum Antenna Input VSWR		Channel	1.10 : 1	
Patterns	Azimuth	TUA-O4-5990		
	Elevation	14U288050	14U288050-90	
Mechanical Specifications		Metric	English	Preliminary
Height with Lightning Protector	H4	17.8 m	58.5 ft	
Height Less Lightning Protector	H2	16.6 m	54.5 ft	
Height of Center of Radiation	H3	8.4 m	27.6 ft	
Basic Wind Speed	V	120.7 km/h	75 mi/h	TIA/EIA-222-F.
Force Coeff. x Projected Area	CaAc	30.01 m <sup>2</sup>	323.0 ft <sup>2</sup>	Above base flange
Moment Arm	D1	8.3 m	27.3 ft	Above base flange
Weight	Calculated	W	5.4 t	12,000 lbs
Radome				Panel Radomes
Antenna designed in accordance with AISC specifications for design of structural steel for building as prescribed by TIA/EIA-222-F. The mechanical loads are calculated and may vary from measured mechanical loads				

NOTE:

Prepared By : SRR  
 Original Date : 5-Sep-02

Approved By : RN  
 Revision: 1 Rev. Date: 24-Sep-02

## Mechanical Specifications

TIA/EIA-222-F. (Above tower top)

Height with Lightning Protector

H4 58.5 ft

Height Less Lightning Protector

H2 54.5 ft

Height of Center of Radiation

H3 27.6 ft

Basic Wind Speed

V 75 mi/h

Force Coeff. x Projected Area

CaAc 323 ft<sup>2</sup>

Moment Arm

D1 27.3 ft

Shear

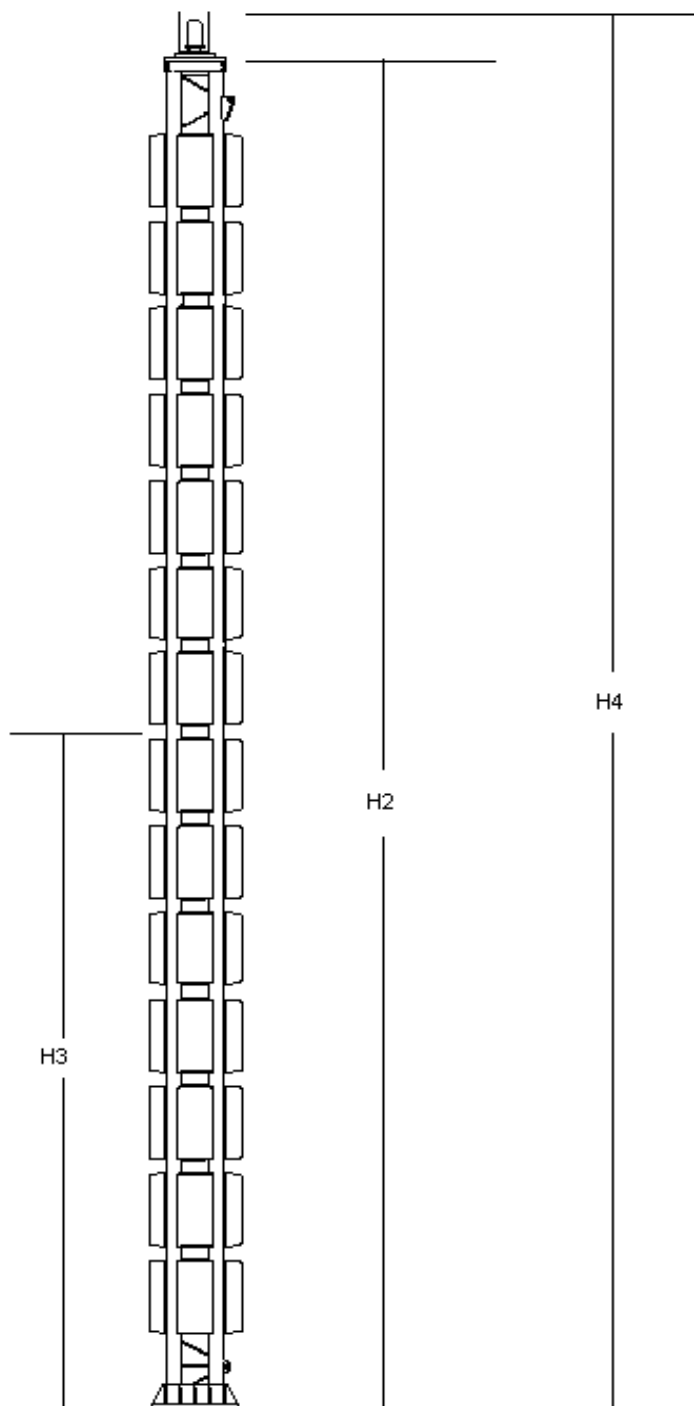
R 12,175 lbs

Moment

M 332,375 ft-lbs

Weight

W 12,000 lbs



Not to Scale

\* Note : The mechanical loads are calculated and may vary from measured mechanical loads



Proposal Number  
Date  
Call Letters  
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Customer  
Antenna Type

**DCA-10051**  
**24-Sep-02**  
**WNIT**  
**South Bend, IN**  
**Michiana Public Broadcast**  
**TUA-O4-14/56H-1-T**

Revision:

**1**

Channel **35**

## SYSTEM SUMMARY

### Antenna:

Type:	<b>TUA-O4-14/56H-1-T</b>	ERP:	<b>50 kW</b>	H Pol	<b>( 16.99 dBk )</b>
Channel:	<b>35</b>	Gain*:	<b>28.8</b>		<b>( 14.59 dB )</b>
Location:	<b>South Bend, IN</b>	Input Power:	<b>1.7 kW</b>		<b>( 2.40 dBk )</b>

### Transmission Line:

Type:	<b>HJ11-50</b>	Attenuation:	<b>3.33 dB</b>
Size:	<b>4 in</b>	Efficiency:	<b>46.5%</b>
Impedance:	<b>50 ohm</b>		
Length:	<b>1,050 ft</b>		<b>320.0 m</b>

### Transmitter:

Power Required: **3.7 kW ( 5.73 dBk )**

\* Gain is with respect to half wave dipole.

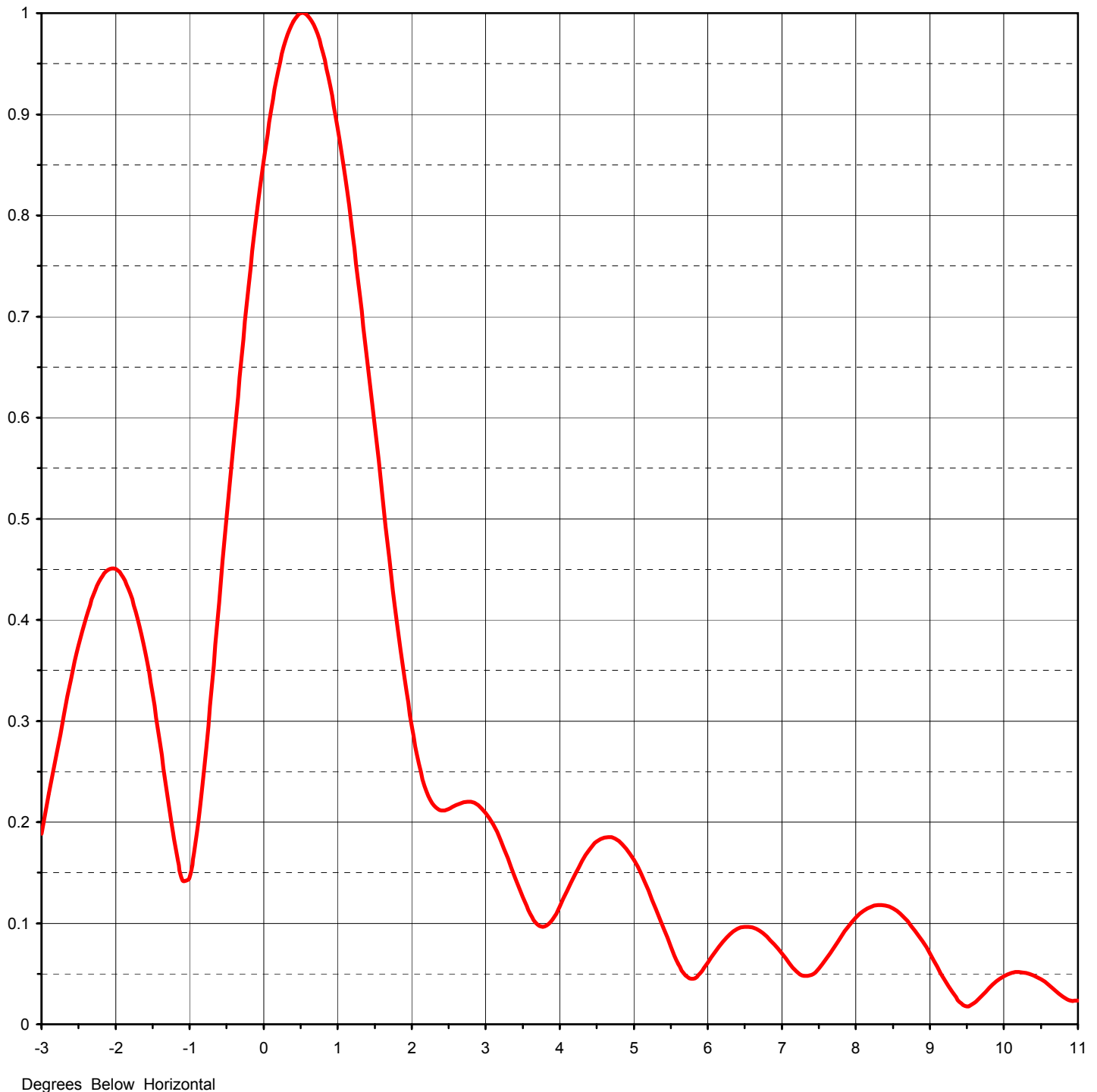


Proposal Number	<b>DCA-10051</b>	Revision:	<b>1</b>
Date	<b>24-Sep-02</b>		
Call Letters	<b>WNIT</b>	Channel	<b>35</b>
Location	<b>South Bend, IN</b>		
Customer	<b>Michiana Public Broadcast</b>		
Antenna Type	<b>TUA-O4-14/56H-1-T</b>		

## ELEVATION PATTERN

RMS Gain at Main Lobe	<b>28.80 ( 14.59 dB )</b>
RMS Gain at Horizontal	<b>21.00 ( 13.22 dB )</b>
Calculated / Measured	<b>Calculated</b>

Beam Tilt	<b>0.50 deg</b>
Frequency	<b>599.00 MHz</b>
Drawing #	<b>14U288050</b>

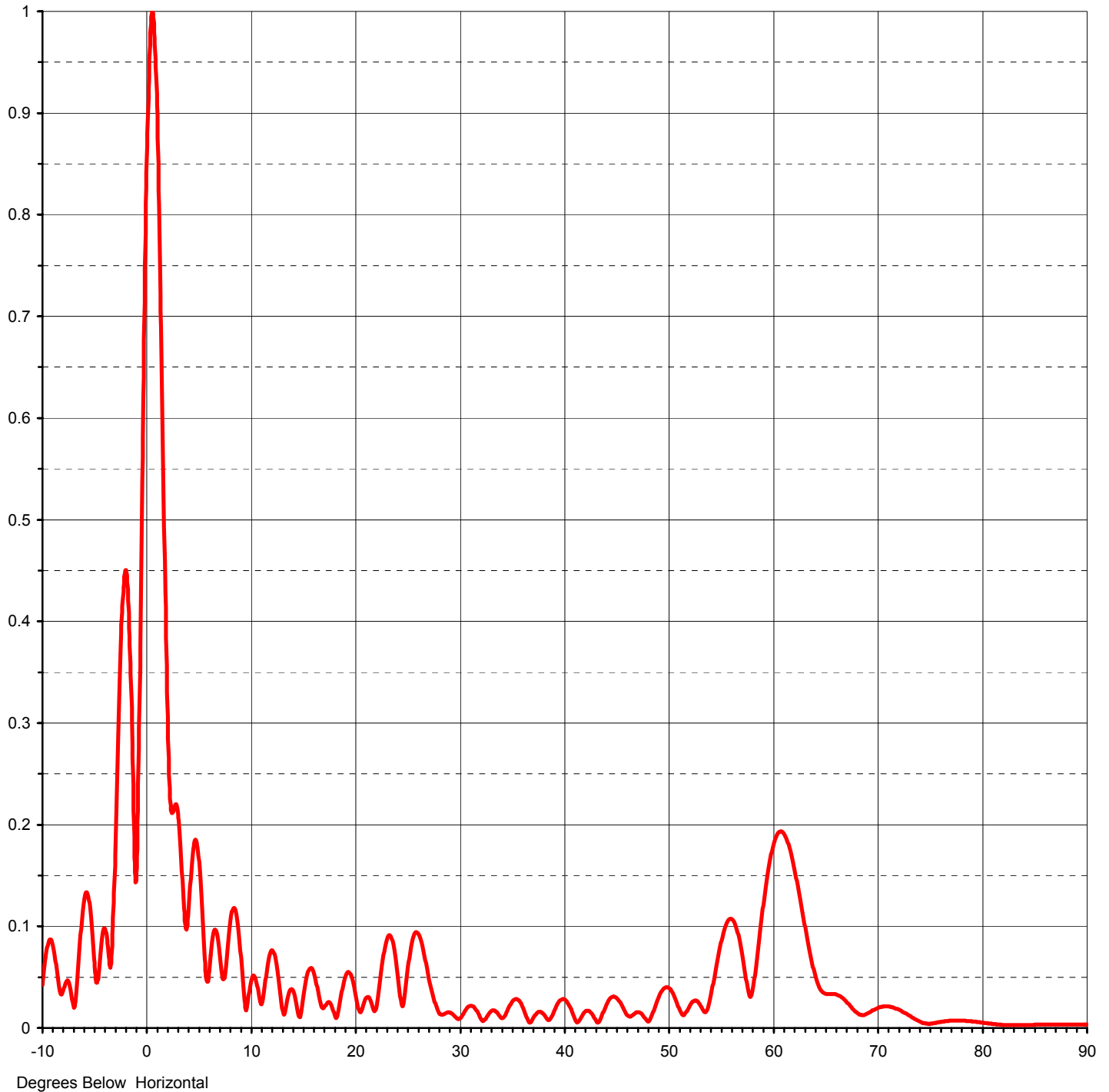




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Date	<b>24-Sep-02</b>		
Call Letters	<b>WNIT</b>	Channel	<b>35</b>
Location	<b>South Bend, IN</b>		
Customer	<b>Michiana Public Broadcast</b>		
Antenna Type	<b>TUA-O4-14/56H-1-T</b>		

## ELEVATION PATTERN

RMS Gain at Main Lobe	<b>28.80 ( 14.59 dB )</b>	Beam Tilt	<b>0.50 deg</b>
RMS Gain at Horizontal	<b>21.00 ( 13.22 dB )</b>	Frequency	<b>599.00 MHz</b>
Calculated / Measured	<b>Calculated</b>	Drawing #	<b>14U288050-90</b>





Proposal Number **DCA-10051** Revision: **1**  
 Date **24-Sep-02**  
 Call Letters **WNIT** Channel **35**  
 Location **South Bend, IN**  
 Customer **Michiana Public Broadcast**  
 Antenna Type **TUA-O4-14/56H-1-T**

## TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **14U288050-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.042	2.4	0.212	10.6	0.044	30.5	0.016	51.0	0.020	71.5	0.020
-9.5	0.081	2.6	0.217	10.8	0.033	31.0	0.022	51.5	0.013	72.0	0.018
-9.0	0.082	2.8	0.220	11.0	0.024	31.5	0.019	52.0	0.021	72.5	0.015
-8.5	0.047	3.0	0.209	11.5	0.051	32.0	0.010	52.5	0.027	73.0	0.012
-8.0	0.037	3.2	0.182	12.0	0.076	32.5	0.009	53.0	0.024	73.5	0.009
-7.5	0.046	3.4	0.145	12.5	0.063	33.0	0.016	53.5	0.016	74.0	0.006
-7.0	0.020	3.6	0.109	13.0	0.023	33.5	0.016	54.0	0.028	74.5	0.004
-6.5	0.071	3.8	0.097	13.5	0.026	34.0	0.010	54.5	0.055	75.0	0.004
-6.0	0.126	4.0	0.116	14.0	0.038	34.5	0.015	55.0	0.081	75.5	0.005
-5.5	0.123	4.2	0.147	14.5	0.019	35.0	0.025	55.5	0.101	76.0	0.006
-5.0	0.061	4.4	0.173	15.0	0.026	35.5	0.028	56.0	0.108	76.5	0.007
-4.5	0.067	4.6	0.185	15.5	0.054	36.0	0.022	56.5	0.099	77.0	0.007
-4.0	0.098	4.8	0.181	16.0	0.056	36.5	0.009	57.0	0.077	77.5	0.007
-3.5	0.059	5.0	0.163	16.5	0.035	37.0	0.008	57.5	0.045	78.0	0.007
-3.0	0.189	5.2	0.132	17.0	0.019	37.5	0.015	58.0	0.033	78.5	0.007
-2.8	0.268	5.4	0.095	17.5	0.025	38.0	0.014	58.5	0.069	79.0	0.006
-2.6	0.342	5.6	0.060	18.0	0.015	38.5	0.008	59.0	0.113	79.5	0.006
-2.4	0.402	5.8	0.045	18.5	0.021	39.0	0.015	59.5	0.150	80.0	0.005
-2.2	0.441	6.0	0.061	19.0	0.047	39.5	0.025	60.0	0.177	80.5	0.004
-2.0	0.450	6.2	0.082	19.5	0.054	40.0	0.029	60.5	0.191	81.0	0.004
-1.8	0.426	6.4	0.094	20.0	0.037	40.5	0.023	61.0	0.192	81.5	0.003
-1.6	0.368	6.6	0.096	20.5	0.016	41.0	0.011	61.5	0.181	82.0	0.003
-1.4	0.279	6.8	0.087	21.0	0.028	41.5	0.007	62.0	0.160	82.5	0.003
-1.2	0.178	7.0	0.070	21.5	0.027	42.0	0.015	62.5	0.134	83.0	0.003
-1.0	0.145	7.2	0.052	22.0	0.018	42.5	0.016	63.0	0.105	83.5	0.003
-0.8	0.257	7.4	0.049	22.5	0.054	43.0	0.009	63.5	0.077	84.0	0.003
-0.6	0.417	7.6	0.065	23.0	0.085	43.5	0.008	64.0	0.054	84.5	0.003
-0.4	0.581	7.8	0.087	23.5	0.089	44.0	0.021	64.5	0.038	85.0	0.003
-0.2	0.731	8.0	0.105	24.0	0.061	44.5	0.030	65.0	0.033	85.5	0.003
0.0	0.855	8.2	0.116	24.5	0.022	45.0	0.030	65.5	0.034	86.0	0.003
0.2	0.943	8.4	0.118	25.0	0.052	45.5	0.023	66.0	0.033	86.5	0.004
0.4	0.992	8.6	0.109	25.5	0.086	46.0	0.014	66.5	0.030	87.0	0.004
0.6	0.997	8.8	0.093	26.0	0.094	46.5	0.012	67.0	0.025	87.5	0.004
0.8	0.961	9.0	0.070	26.5	0.079	47.0	0.015	67.5	0.020	88.0	0.004
1.0	0.887	9.2	0.044	27.0	0.052	47.5	0.013	68.0	0.014	88.5	0.004
1.2	0.782	9.4	0.022	27.5	0.032	48.0	0.007	68.5	0.013	89.0	0.004
1.4	0.657	9.6	0.021	28.0	0.016	48.5	0.014	69.0	0.014	89.5	0.004
1.6	0.525	9.8	0.029	28.5	0.014	49.0	0.028	69.5	0.017	90.0	0.003
1.8	0.398	10.0	0.043	29.0	0.015	49.5	0.038	70.0	0.020		
2.0	0.295	10.2	0.051	29.5	0.012	50.0	0.040	70.5	0.021		
2.2	0.231	10.4	0.051	30.0	0.009	50.5	0.033	71.0	0.021		

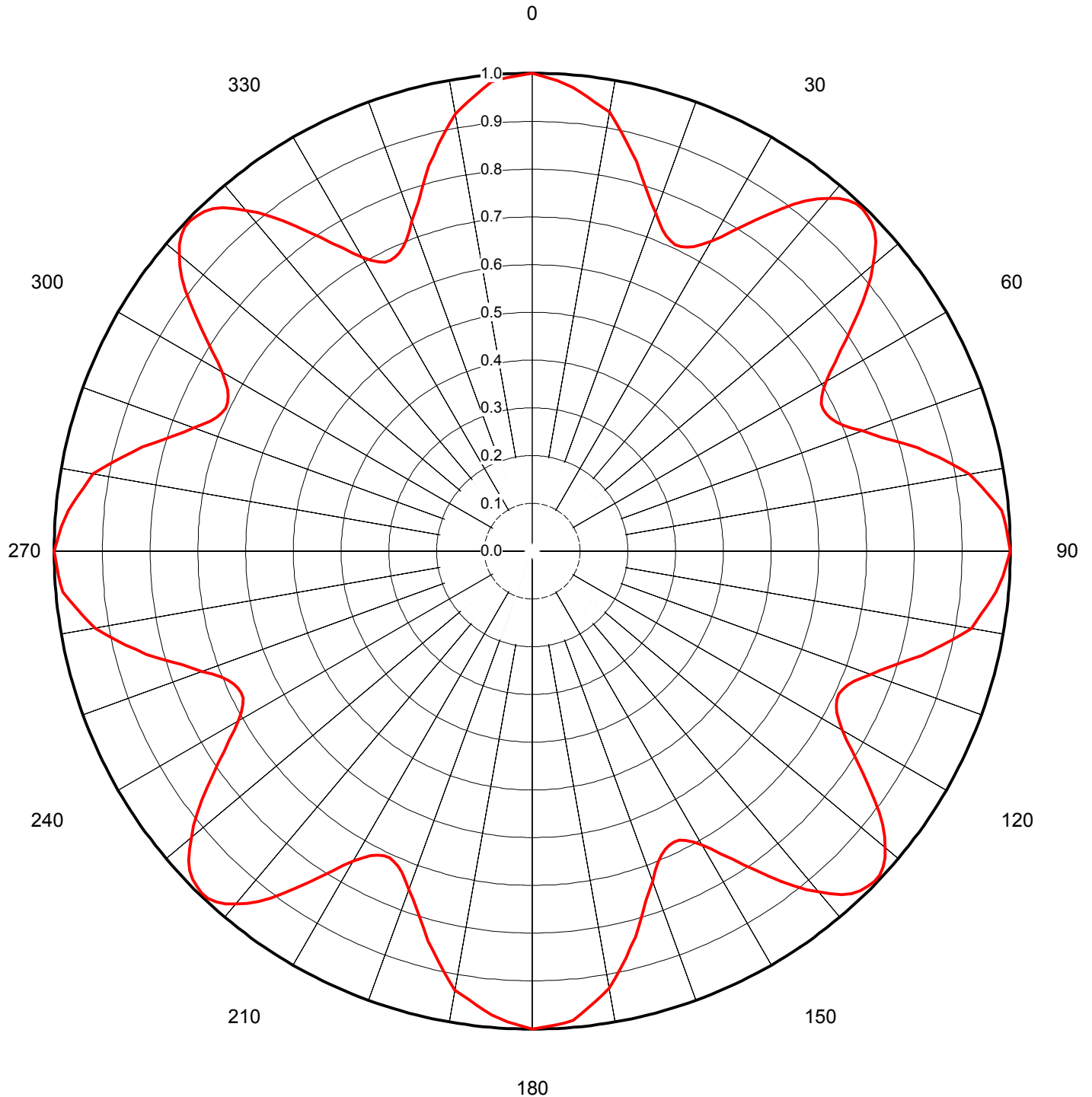


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Date	<b>24-Sep-02</b>		
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Location	<b>South Bend, IN</b>		
Customer	<b>Michiana Public Broadcast</b>		
Antenna Type	<b>TUA-O4-14/56H-1-T</b>		

## AZIMUTH PATTERN

Gain	<b>1.40</b>	<b>( 1.46 dB)</b>
Calculated / Measured	<b>Calculated</b>	

Frequency	<b>599.00 MHz</b>
Drawing #	<b>TUA-O4-5990</b>





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## TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **TUA-O4-5990**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	1.000	45	0.992	90	1.000	135	0.992	180	1.000	225	0.992	270	1.000	315	0.992
1	0.995	46	0.988	91	0.995	136	0.988	181	0.995	226	0.988	271	0.995	316	0.988
2	0.990	47	0.980	92	0.990	137	0.980	182	0.990	227	0.980	272	0.990	317	0.980
3	0.985	48	0.967	93	0.985	138	0.967	183	0.985	228	0.967	273	0.985	318	0.967
4	0.980	49	0.950	94	0.980	139	0.950	184	0.980	229	0.950	274	0.980	319	0.950
5	0.975	50	0.930	95	0.975	140	0.930	185	0.975	230	0.930	275	0.975	320	0.930
6	0.966	51	0.911	96	0.966	141	0.911	186	0.966	231	0.911	276	0.966	321	0.911
7	0.957	52	0.889	97	0.957	142	0.889	187	0.957	232	0.889	277	0.957	322	0.889
8	0.948	53	0.866	98	0.948	143	0.866	188	0.948	233	0.866	278	0.948	323	0.866
9	0.940	54	0.841	99	0.940	144	0.841	189	0.940	234	0.841	279	0.940	324	0.841
10	0.932	55	0.816	100	0.932	145	0.816	190	0.932	235	0.816	280	0.932	325	0.816
11	0.914	56	0.792	101	0.914	146	0.792	191	0.914	236	0.792	281	0.914	326	0.792
12	0.896	57	0.769	102	0.896	147	0.769	192	0.896	237	0.769	282	0.896	327	0.769
13	0.878	58	0.747	103	0.878	148	0.747	193	0.878	238	0.747	283	0.878	328	0.747
14	0.860	59	0.727	104	0.860	149	0.727	194	0.860	239	0.727	284	0.860	329	0.727
15	0.844	60	0.710	105	0.844	150	0.710	195	0.844	240	0.710	285	0.844	330	0.710
16	0.823	61	0.696	106	0.823	151	0.696	196	0.823	241	0.696	286	0.823	331	0.696
17	0.803	62	0.686	107	0.803	152	0.686	197	0.803	242	0.686	287	0.803	332	0.686
18	0.785	63	0.679	108	0.785	153	0.679	198	0.785	243	0.679	288	0.785	333	0.679
19	0.769	64	0.677	109	0.769	154	0.677	199	0.769	244	0.677	289	0.769	334	0.677
20	0.755	65	0.679	110	0.755	155	0.679	200	0.755	245	0.679	290	0.755	335	0.679
21	0.739	66	0.683	111	0.739	156	0.683	201	0.739	246	0.683	291	0.739	336	0.683
22	0.726	67	0.691	112	0.726	157	0.691	202	0.726	247	0.691	292	0.726	337	0.691
23	0.716	68	0.703	113	0.716	158	0.703	203	0.716	248	0.703	293	0.716	338	0.703
24	0.710	69	0.718	114	0.710	159	0.718	204	0.710	249	0.718	294	0.710	339	0.718
25	0.708	70	0.736	115	0.708	160	0.736	205	0.708	250	0.736	295	0.708	340	0.736
26	0.708	71	0.752	116	0.708	161	0.752	206	0.708	251	0.752	296	0.708	341	0.752
27	0.713	72	0.770	117	0.713	162	0.770	207	0.713	252	0.770	297	0.713	342	0.770
28	0.722	73	0.790	118	0.722	163	0.790	208	0.722	253	0.790	298	0.722	343	0.790
29	0.734	74	0.812	119	0.734	164	0.812	209	0.734	254	0.812	299	0.734	344	0.812
30	0.748	75	0.835	120	0.748	165	0.835	210	0.748	255	0.835	300	0.748	345	0.835
31	0.768	76	0.854	121	0.768	166	0.854	211	0.768	256	0.854	301	0.768	346	0.854
32	0.790	77	0.872	122	0.790	167	0.872	212	0.790	257	0.872	302	0.790	347	0.872
33	0.813	78	0.891	123	0.813	168	0.891	213	0.813	258	0.891	303	0.813	348	0.891
34	0.836	79	0.910	124	0.836	169	0.910	214	0.836	259	0.910	304	0.836	349	0.910
35	0.859	80	0.929	125	0.859	170	0.929	215	0.859	260	0.929	305	0.859	350	0.929
36	0.884	81	0.940	126	0.884	171	0.940	216	0.884	261	0.940	306	0.884	351	0.940
37	0.908	82	0.951	127	0.908	172	0.951	217	0.908	262	0.951	307	0.908	352	0.951
38	0.929	83	0.963	128	0.929	173	0.963	218	0.929	263	0.963	308	0.929	353	0.963
39	0.948	84	0.974	129	0.948	174	0.974	219	0.948	264	0.974	309	0.948	354	0.974
40	0.963	85	0.985	130	0.963	175	0.985	220	0.963	265	0.985	310	0.963	355	0.985
41	0.978	86	0.989	131	0.978	176	0.989	221	0.978	266	0.989	311	0.978	356	0.989
42	0.988	87	0.992	132	0.988	177	0.992	222	0.988	267	0.992	312	0.988	357	0.992
43	0.994	88	0.995	133	0.994	178	0.995	223	0.994	268	0.995	313	0.994	358	0.995
44	0.995	89	0.997	134	0.995	179	0.997	224	0.995	269	0.997	314	0.995	359	0.997