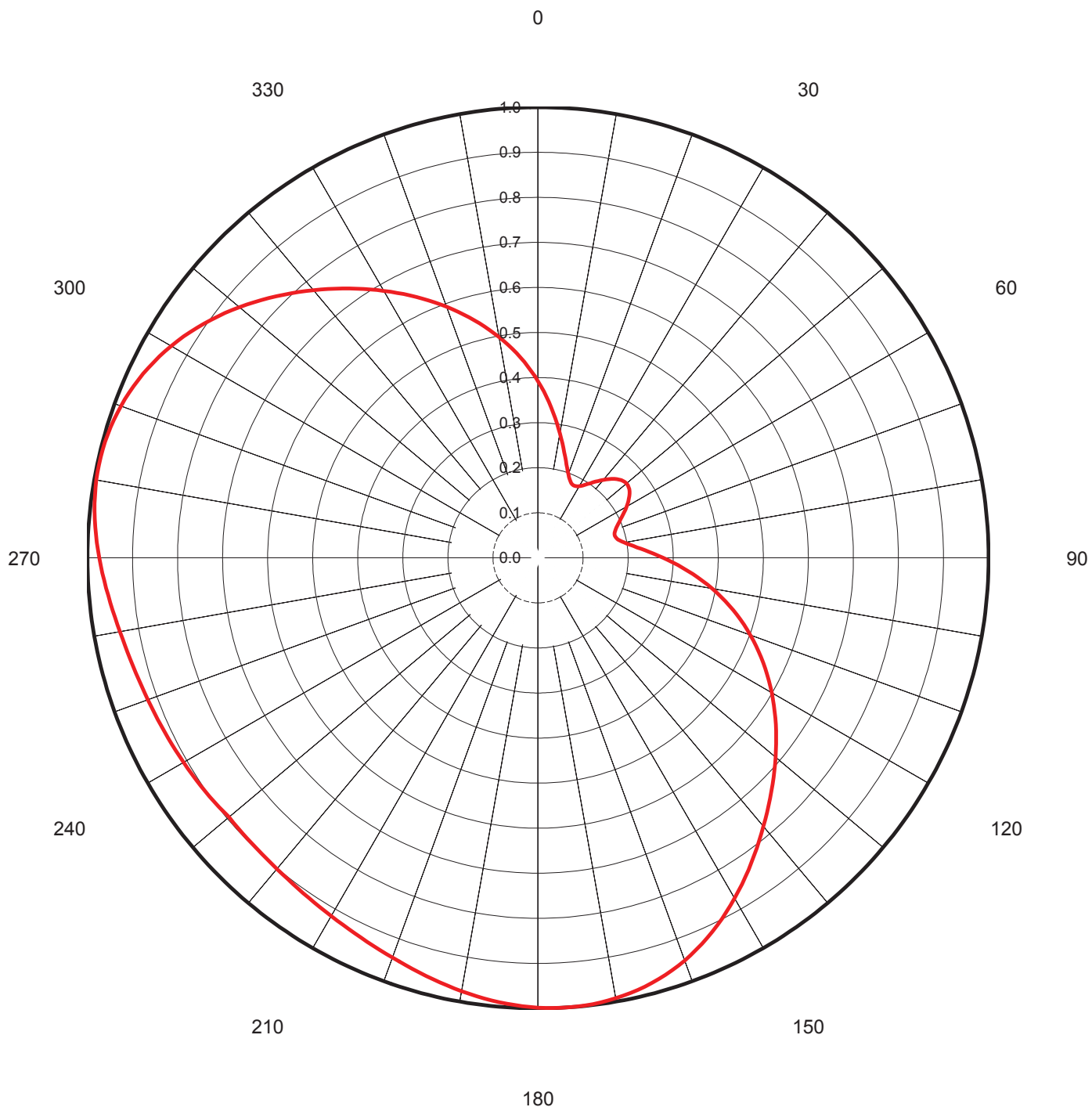


Proposal Number	C-06088	Exhibit 2
Date	17-Jan-14	
Call Letters	WNWO	Channel 49
Location	Toledo, Ohio	
Customer		
Antenna Type	TFU-12DSC/VP-R	

AZIMUTH PATTERN

Gain **1.90** (2.79 dB)
Calculated / Measured **Calculated**

Frequency **683.00 MHz**
Drawing # **TFU-C190-D49**





Proposal Number

C-06088**Exhibit 3**

Date

17-Jan-14

Call Letters

WNWO

Channel

49

Location

Toledo, Ohio

Customer

Antenna Type

TFU-12DSC/VP-R**TABULATION OF AZIMUTH PATTERN**Azimuth Pattern Drawing #: **TFU-C190-D49**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.392	45	0.247	90	0.278	135	0.733	180	0.998	225	0.897	270	0.974	315	0.821
1	0.381	46	0.250	91	0.289	136	0.742	181	0.997	226	0.897	271	0.977	316	0.812
2	0.370	47	0.253	92	0.300	137	0.751	182	0.996	227	0.896	272	0.980	317	0.803
3	0.358	48	0.255	93	0.311	138	0.760	183	0.994	228	0.896	273	0.983	318	0.794
4	0.347	49	0.256	94	0.322	139	0.769	184	0.992	229	0.896	274	0.985	319	0.784
5	0.335	50	0.257	95	0.334	140	0.778	185	0.990	230	0.895	275	0.988	320	0.775
6	0.324	51	0.256	96	0.346	141	0.788	186	0.987	231	0.897	276	0.990	321	0.766
7	0.313	52	0.255	97	0.357	142	0.797	187	0.985	232	0.898	277	0.992	322	0.757
8	0.302	53	0.253	98	0.369	143	0.807	188	0.982	233	0.900	278	0.993	323	0.748
9	0.291	54	0.251	99	0.381	144	0.816	189	0.979	234	0.901	279	0.994	324	0.739
10	0.280	55	0.248	100	0.393	145	0.826	190	0.976	235	0.902	280	0.995	325	0.730
11	0.270	56	0.245	101	0.404	146	0.835	191	0.973	236	0.904	281	0.996	326	0.720
12	0.260	57	0.241	102	0.415	147	0.845	192	0.970	237	0.905	282	0.996	327	0.711
13	0.250	58	0.236	103	0.427	148	0.854	193	0.967	238	0.906	283	0.996	328	0.702
14	0.241	59	0.232	104	0.438	149	0.863	194	0.964	239	0.907	284	0.996	329	0.693
15	0.232	60	0.227	105	0.449	150	0.873	195	0.960	240	0.908	285	0.995	330	0.684
16	0.224	61	0.222	106	0.460	151	0.882	196	0.957	241	0.910	286	0.993	331	0.675
17	0.216	62	0.217	107	0.470	152	0.890	197	0.954	242	0.911	287	0.992	332	0.666
18	0.209	63	0.212	108	0.481	153	0.899	198	0.951	243	0.912	288	0.990	333	0.657
19	0.203	64	0.207	109	0.491	154	0.907	199	0.947	244	0.913	289	0.988	334	0.648
20	0.197	65	0.202	110	0.502	155	0.916	200	0.944	245	0.914	290	0.985	335	0.639
21	0.192	66	0.198	111	0.512	156	0.923	201	0.941	246	0.916	291	0.982	336	0.630
22	0.188	67	0.194	112	0.522	157	0.931	202	0.938	247	0.917	292	0.979	337	0.620
23	0.184	68	0.190	113	0.532	158	0.938	203	0.935	248	0.918	293	0.975	338	0.611
24	0.182	69	0.186	114	0.542	159	0.945	204	0.933	249	0.920	294	0.971	339	0.602
25	0.180	70	0.183	115	0.552	160	0.951	205	0.930	250	0.921	295	0.967	340	0.593
26	0.179	71	0.181	116	0.561	161	0.957	206	0.927	251	0.923	296	0.962	341	0.583
27	0.179	72	0.179	117	0.571	162	0.963	207	0.925	252	0.925	297	0.957	342	0.574
28	0.180	73	0.178	118	0.580	163	0.968	208	0.922	253	0.926	298	0.952	343	0.565
29	0.182	74	0.178	119	0.590	164	0.972	209	0.920	254	0.928	299	0.946	344	0.555
30	0.184	75	0.178	120	0.599	165	0.977	210	0.918	255	0.930	300	0.940	345	0.546
31	0.187	76	0.180	121	0.608	166	0.981	211	0.916	256	0.932	301	0.934	346	0.536
32	0.190	77	0.182	122	0.617	167	0.984	212	0.914	257	0.935	302	0.927	347	0.527
33	0.194	78	0.185	123	0.626	168	0.987	213	0.912	258	0.937	303	0.920	348	0.517
34	0.198	79	0.189	124	0.635	169	0.990	214	0.910	259	0.940	304	0.913	349	0.507
35	0.202	80	0.194	125	0.644	170	0.993	215	0.908	260	0.942	305	0.906	350	0.497
36	0.207	81	0.200	126	0.653	171	0.995	216	0.907	261	0.945	306	0.898	351	0.487
37	0.211	82	0.206	127	0.662	172	0.996	217	0.905	262	0.948	307	0.890	352	0.477
38	0.216	83	0.214	128	0.671	173	0.998	218	0.904	263	0.951	308	0.882	353	0.467
39	0.221	84	0.221	129	0.680	174	0.999	219	0.903	264	0.954	309	0.874	354	0.457
40	0.226	85	0.229	130	0.688	175	1.000	220	0.901	265	0.958	310	0.865	355	0.446
41	0.231	86	0.238	131	0.697	176	1.000	221	0.900	266	0.961	311	0.857	356	0.436
42	0.235	87	0.248	132	0.706	177	1.000	222	0.899	267	0.964	312	0.848	357	0.425
43	0.240	88	0.257	133	0.715	178	1.000	223	0.899	268	0.967	313	0.839	358	0.414
44	0.244	89	0.267	134	0.724	179	0.999	224	0.898	269	0.971	314	0.830	359	0.403

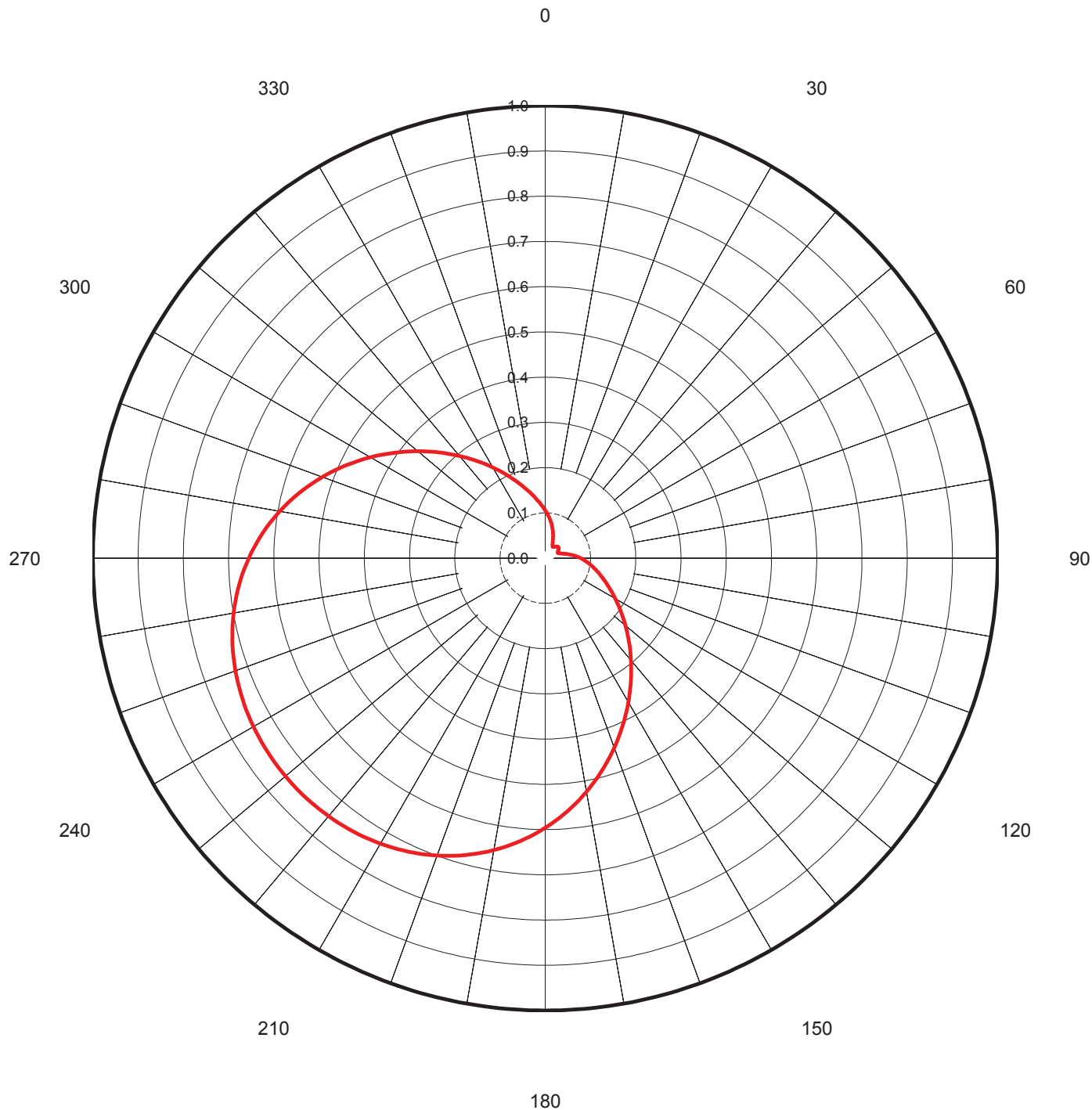
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Proposal Number	C-06088	Exhibit 4
Date	17-Jan-14	
Call Letters	WNWO	Channel 49
Location	Toledo, Ohio	
Customer		
Antenna Type	TFU-12DSC/VP-R	

AZIMUTH PATTERN/VERTICAL POLARIZATION

Gain	2.90	(4.62 dB)
Calculated / Measured		Calculated

Frequency	683.00 MHz
Drawing #	TFU-C190-V-D49





Proposal Number

C-06088**Exhibit 5**

Date

17-Jan-14

Call Letters

WNWO

Channel

49

Location

Toledo, Ohio

Customer

Antenna Type

TFU-12DSC/VP-R**TABULATION OF AZIMUTH PATTERN/VERTICAL POLARIZATION**Azimuth Pattern Drawing #: **TFU-C190-V-D49**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.106	45	0.036	90	0.078	135	0.262	180	0.596	225	0.749	270	0.655	315	0.330
1	0.103	46	0.037	91	0.081	136	0.268	181	0.603	226	0.749	271	0.650	316	0.323
2	0.100	47	0.037	92	0.083	137	0.275	182	0.609	227	0.750	272	0.645	317	0.316
3	0.097	48	0.038	93	0.086	138	0.281	183	0.615	228	0.750	273	0.639	318	0.309
4	0.094	49	0.038	94	0.089	139	0.288	184	0.622	229	0.750	274	0.633	319	0.302
5	0.092	50	0.038	95	0.092	140	0.295	185	0.628	230	0.750	275	0.628	320	0.295
6	0.089	51	0.038	96	0.094	141	0.302	186	0.633	231	0.750	276	0.622	321	0.288
7	0.086	52	0.038	97	0.097	142	0.309	187	0.639	232	0.750	277	0.615	322	0.281
8	0.083	53	0.037	98	0.100	143	0.316	188	0.645	233	0.750	278	0.609	323	0.275
9	0.081	54	0.037	99	0.103	144	0.323	189	0.650	234	0.749	279	0.603	324	0.268
10	0.078	55	0.036	100	0.106	145	0.330	190	0.655	235	0.749	280	0.596	325	0.262
11	0.075	56	0.036	101	0.109	146	0.337	191	0.661	236	0.748	281	0.589	326	0.255
12	0.072	57	0.035	102	0.112	147	0.345	192	0.665	237	0.748	282	0.583	327	0.249
13	0.070	58	0.034	103	0.115	148	0.352	193	0.670	238	0.747	283	0.576	328	0.243
14	0.067	59	0.034	104	0.118	149	0.360	194	0.675	239	0.746	284	0.569	329	0.237
15	0.064	60	0.033	105	0.121	150	0.367	195	0.679	240	0.745	285	0.562	330	0.231
16	0.061	61	0.032	106	0.124	151	0.375	196	0.684	241	0.744	286	0.554	331	0.225
17	0.059	62	0.032	107	0.127	152	0.383	197	0.688	242	0.743	287	0.547	332	0.220
18	0.056	63	0.031	108	0.130	153	0.391	198	0.692	243	0.741	288	0.539	333	0.214
19	0.053	64	0.030	109	0.134	154	0.398	199	0.696	244	0.740	289	0.532	334	0.209
20	0.051	65	0.030	110	0.137	155	0.406	200	0.700	245	0.738	290	0.524	335	0.203
21	0.048	66	0.030	111	0.141	156	0.414	201	0.703	246	0.737	291	0.517	336	0.198
22	0.046	67	0.030	112	0.145	157	0.422	202	0.707	247	0.735	292	0.509	337	0.193
23	0.043	68	0.030	113	0.149	158	0.430	203	0.710	248	0.733	293	0.501	338	0.188
24	0.041	69	0.031	114	0.152	159	0.438	204	0.713	249	0.731	294	0.493	339	0.183
25	0.039	70	0.032	115	0.157	160	0.446	205	0.716	250	0.729	295	0.486	340	0.179
26	0.037	71	0.033	116	0.161	161	0.454	206	0.719	251	0.726	296	0.478	341	0.174
27	0.035	72	0.034	117	0.165	162	0.462	207	0.721	252	0.724	297	0.470	342	0.169
28	0.034	73	0.035	118	0.169	163	0.470	208	0.724	253	0.721	298	0.462	343	0.165
29	0.033	74	0.037	119	0.174	164	0.478	209	0.726	254	0.719	299	0.454	344	0.161
30	0.032	75	0.039	120	0.179	165	0.486	210	0.729	255	0.716	300	0.446	345	0.157
31	0.031	76	0.041	121	0.183	166	0.493	211	0.731	256	0.713	301	0.438	346	0.152
32	0.030	77	0.043	122	0.188	167	0.501	212	0.733	257	0.710	302	0.430	347	0.149
33	0.030	78	0.046	123	0.193	168	0.509	213	0.735	258	0.707	303	0.422	348	0.145
34	0.030	79	0.048	124	0.198	169	0.517	214	0.737	259	0.703	304	0.414	349	0.141
35	0.030	80	0.051	125	0.203	170	0.524	215	0.738	260	0.700	305	0.406	350	0.137
36	0.030	81	0.053	126	0.209	171	0.532	216	0.740	261	0.696	306	0.398	351	0.134
37	0.031	82	0.056	127	0.214	172	0.539	217	0.741	262	0.692	307	0.391	352	0.130
38	0.032	83	0.059	128	0.220	173	0.547	218	0.743	263	0.688	308	0.383	353	0.127
39	0.032	84	0.061	129	0.225	174	0.554	219	0.744	264	0.684	309	0.375	354	0.124
40	0.033	85	0.064	130	0.231	175	0.562	220	0.745	265	0.679	310	0.367	355	0.121
41	0.034	86	0.067	131	0.237	176	0.569	221	0.746	266	0.675	311	0.360	356	0.118
42	0.034	87	0.070	132	0.243	177	0.576	222	0.747	267	0.670	312	0.352	357	0.115
43	0.035	88	0.072	133	0.249	178	0.583	223	0.748	268	0.665	313	0.345	358	0.112
44	0.036	89	0.075	134	0.255	179	0.589	224	0.748	269	0.661	314	0.337	359	0.109

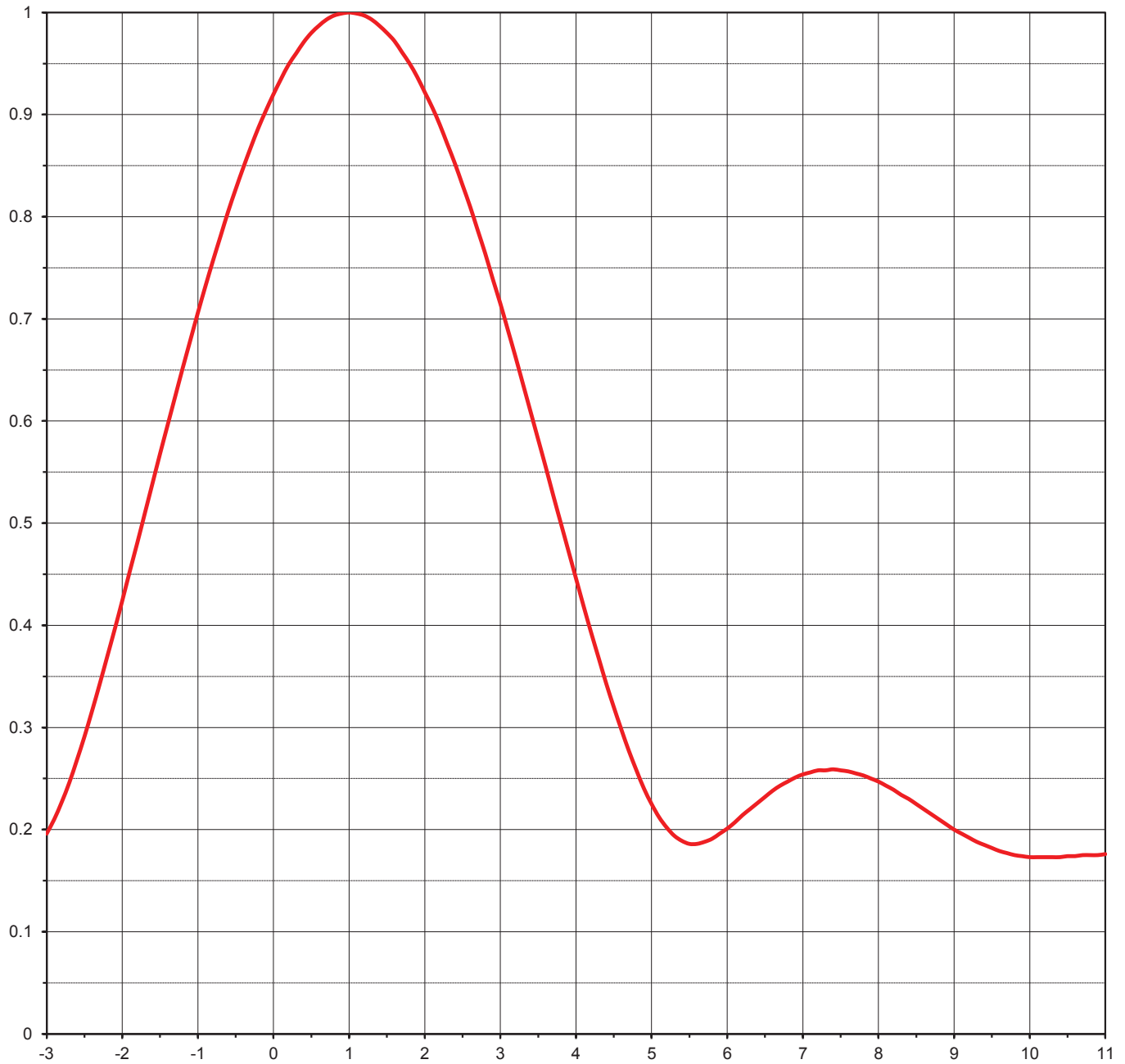
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Proposal Number	C-06088	Exhibit 6
Date	17-Jan-14	
Call Letters	WNWO	Channel 49
Location	Toledo, Ohio	
Customer		
Antenna Type	TFU-12DSC/VP-R	

ELEVATION PATTERN

RMS Gain at Main Lobe	12.00 (10.79 dB)	Beam Tilt	1.00 deg
RMS Gain at Horizontal	10.20 (10.09 dB)	Frequency	683.00 MHz
Calculated / Measured	Calculated	Drawing #	12Q120100



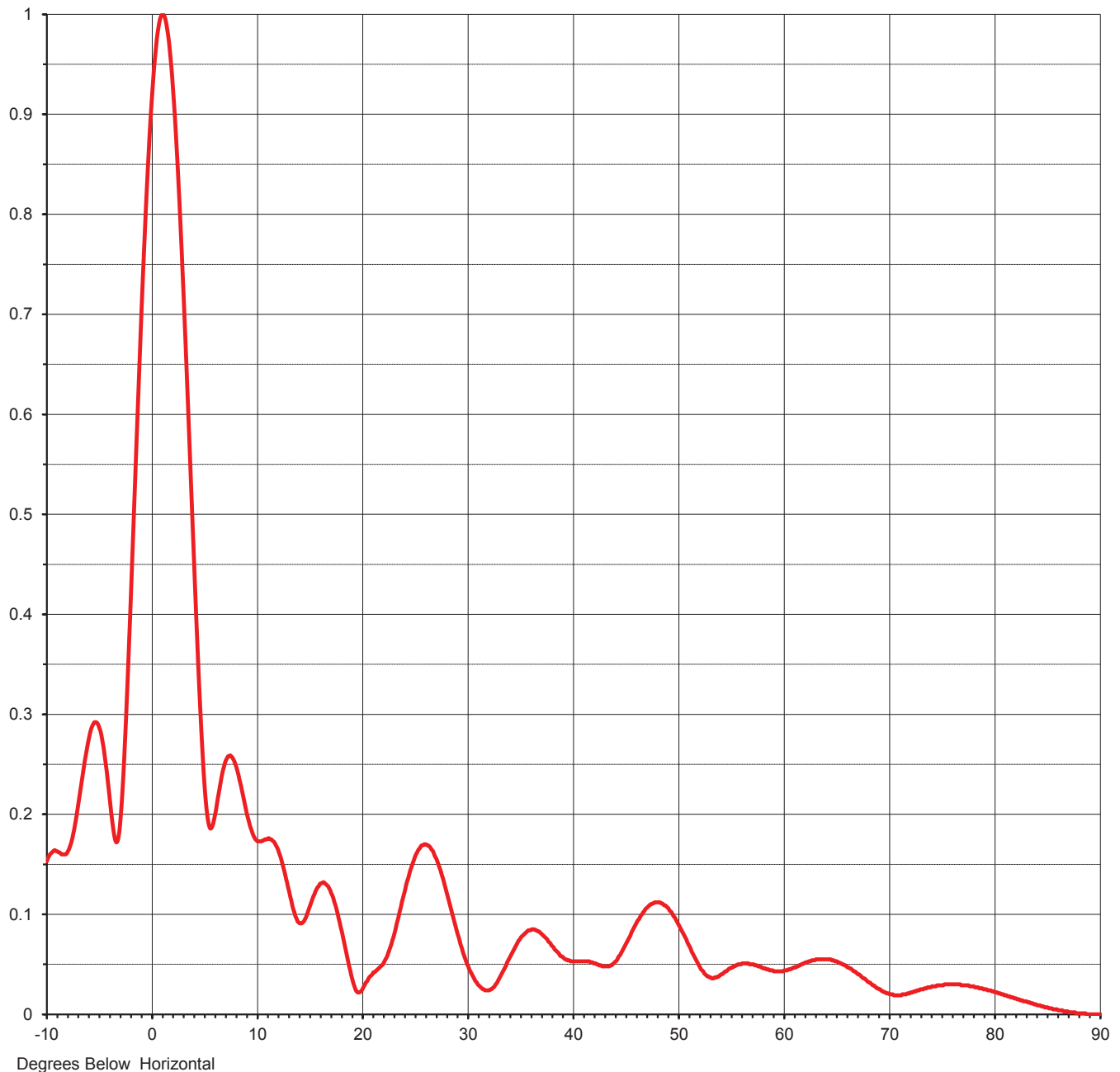
Degrees Below Horizontal



Proposal Number	C-06088	Exhibit 7
Date	17-Jan-14	
Call Letters	WNWO	Channel 49
Location	Toledo, Ohio	
Customer		
Antenna Type	TFU-12DSC/VP-R	

ELEVATION PATTERN

RMS Gain at Main Lobe	12.00 (10.79 dB)	Beam Tilt	1.00 deg
RMS Gain at Horizontal	10.20 (10.09 dB)	Frequency	683.00 MHz
Calculated / Measured	Calculated	Drawing #	12Q120100-90





Proposal Number **C-06088** **Exhibit 8**
Date **17-Jan-14**
Call Letters **WNWO** Channel **49**
Location **Toledo, Ohio**
Customer
Antenna Type **TFU-12DSC/VP-R**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **12Q120100-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.153	2.4	0.852	10.6	0.174	30.5	0.039	51.0	0.070	71.5	0.020
-9.5	0.162	2.6	0.810	10.8	0.175	31.0	0.030	51.5	0.059	72.0	0.022
-9.0	0.163	2.8	0.764	11.0	0.175	31.5	0.025	52.0	0.049	72.5	0.023
-8.5	0.160	3.0	0.715	11.5	0.174	32.0	0.024	52.5	0.041	73.0	0.025
-8.0	0.163	3.2	0.663	12.0	0.166	32.5	0.027	53.0	0.037	73.5	0.026
-7.5	0.180	3.4	0.609	12.5	0.149	33.0	0.035	53.5	0.037	74.0	0.028
-7.0	0.211	3.6	0.555	13.0	0.127	33.5	0.045	54.0	0.039	74.5	0.029
-6.5	0.246	3.8	0.500	13.5	0.105	34.0	0.056	54.5	0.043	75.0	0.029
-6.0	0.276	4.0	0.446	14.0	0.092	34.5	0.066	55.0	0.046	75.5	0.030
-5.5	0.292	4.2	0.393	14.5	0.093	35.0	0.075	55.5	0.049	76.0	0.030
-5.0	0.286	4.4	0.343	15.0	0.106	35.5	0.081	56.0	0.050	76.5	0.030
-4.5	0.258	4.6	0.298	15.5	0.120	36.0	0.084	56.5	0.051	77.0	0.029
-4.0	0.213	4.8	0.258	16.0	0.130	36.5	0.084	57.0	0.050	77.5	0.029
-3.5	0.174	5.0	0.225	16.5	0.131	37.0	0.081	57.5	0.049	78.0	0.028
-3.0	0.196	5.2	0.202	17.0	0.124	37.5	0.076	58.0	0.047	78.5	0.026
-2.8	0.227	5.4	0.189	17.5	0.109	38.0	0.069	58.5	0.045	79.0	0.025
-2.6	0.268	5.6	0.186	18.0	0.087	38.5	0.063	59.0	0.044	79.5	0.024
-2.4	0.316	5.8	0.191	18.5	0.063	39.0	0.058	59.5	0.043	80.0	0.022
-2.2	0.369	6.0	0.201	19.0	0.039	39.5	0.054	60.0	0.043	80.5	0.021
-2.0	0.424	6.2	0.214	19.5	0.023	40.0	0.053	60.5	0.045	81.0	0.019
-1.8	0.481	6.4	0.226	20.0	0.024	40.5	0.053	61.0	0.047	81.5	0.017
-1.6	0.539	6.6	0.238	20.5	0.033	41.0	0.053	61.5	0.049	82.0	0.016
-1.4	0.596	6.8	0.247	21.0	0.040	41.5	0.053	62.0	0.051	82.5	0.014
-1.2	0.652	7.0	0.254	21.5	0.045	42.0	0.051	62.5	0.053	83.0	0.013
-1.0	0.706	7.2	0.258	22.0	0.050	42.5	0.049	63.0	0.054	83.5	0.011
-0.8	0.757	7.4	0.259	22.5	0.061	43.0	0.048	63.5	0.055	84.0	0.009
-0.6	0.805	7.6	0.257	23.0	0.077	43.5	0.048	64.0	0.055	84.5	0.008
-0.4	0.848	7.8	0.253	23.5	0.098	44.0	0.052	64.5	0.054	85.0	0.007
-0.2	0.887	8.0	0.247	24.0	0.120	44.5	0.059	65.0	0.053	85.5	0.005
0.0	0.920	8.2	0.239	24.5	0.140	45.0	0.069	65.5	0.050	86.0	0.004
0.2	0.949	8.4	0.230	25.0	0.156	45.5	0.079	66.0	0.047	86.5	0.003
0.4	0.971	8.6	0.220	25.5	0.166	46.0	0.090	66.5	0.044	87.0	0.002
0.6	0.987	8.8	0.210	26.0	0.170	46.5	0.099	67.0	0.040	87.5	0.002
0.8	0.997	9.0	0.200	26.5	0.167	47.0	0.106	67.5	0.036	88.0	0.001
1.0	1.000	9.2	0.192	27.0	0.157	47.5	0.110	68.0	0.032	88.5	0.001
1.2	0.997	9.4	0.185	27.5	0.143	48.0	0.112	68.5	0.029	89.0	0.000
1.4	0.987	9.6	0.179	28.0	0.124	48.5	0.111	69.0	0.025	89.5	0.000
1.6	0.972	9.8	0.177	28.5	0.104	49.0	0.107	69.5	0.022	90.0	0.000
1.8	0.950	10.0	0.174	29.0	0.084	49.5	0.100	70.0	0.020		
2.0	0.922	10.2	0.173	29.5	0.066	50.0	0.091	70.5	0.019		
2.2	0.890	10.4	0.173	30.0	0.050	50.5	0.081	71.0	0.019		

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