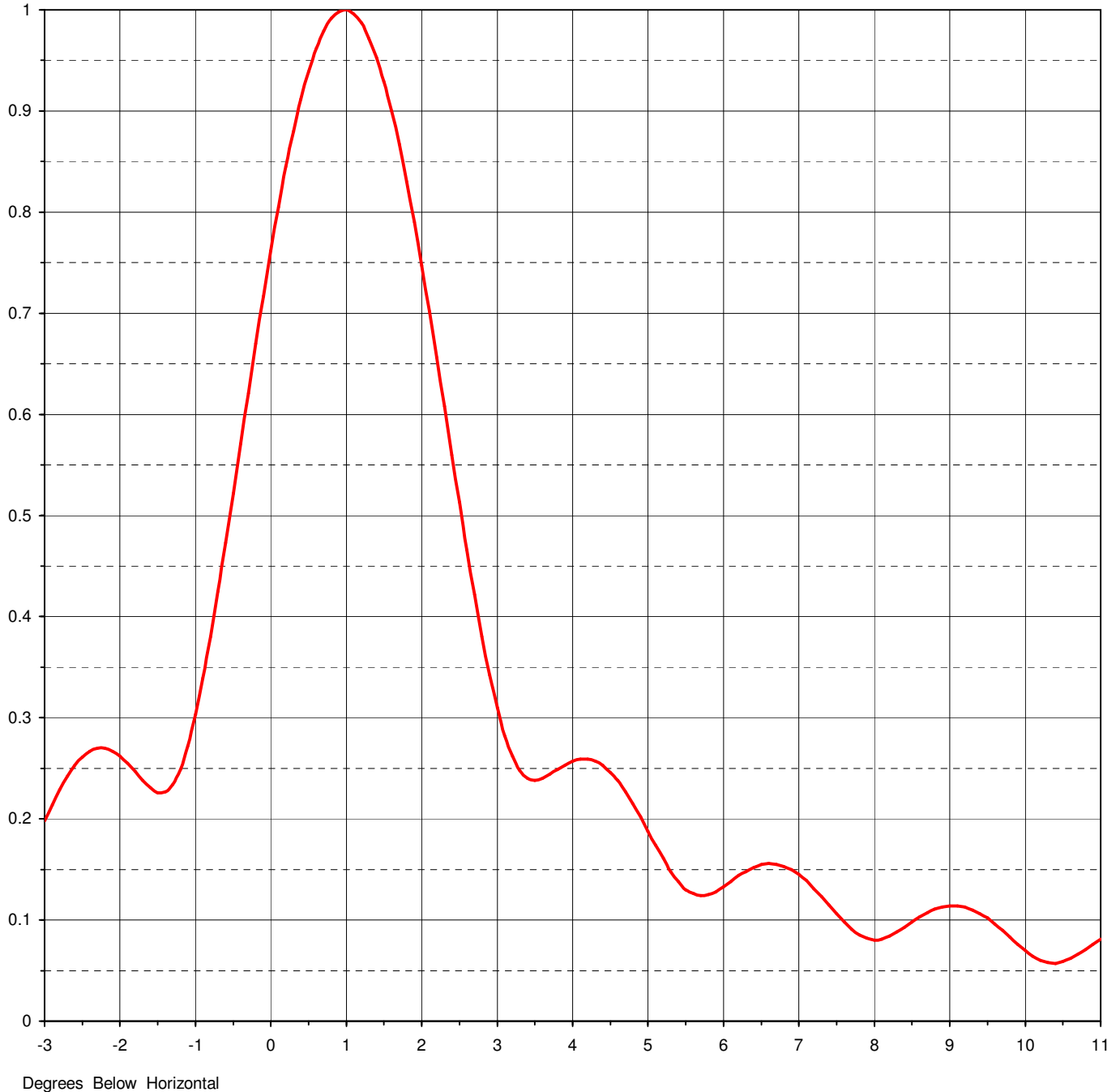




Proposal Number	<b>C-02811</b>		
Date	<b>12-Aug-08</b>		
Call Letters	<b>WYBE-DT</b>	Channel	<b>35</b>
Location	<b>Philadelphia, PA</b>		
Customer			
Antenna Type	<b>TFU-24EBT/VP-R 8T160SP</b>		

## ELEVATION PATTERN

RMS Gain at Main Lobe	<b>23.00 ( 13.62 dB )</b>	Beam Tilt	<b>1.00 deg</b>
RMS Gain at Horizontal	<b>13.40 ( 11.27 dB )</b>	Frequency	<b>599.00 MHz</b>
Calculated / Measured	<b>Calculated</b>	Drawing #	<b>24E230100</b>

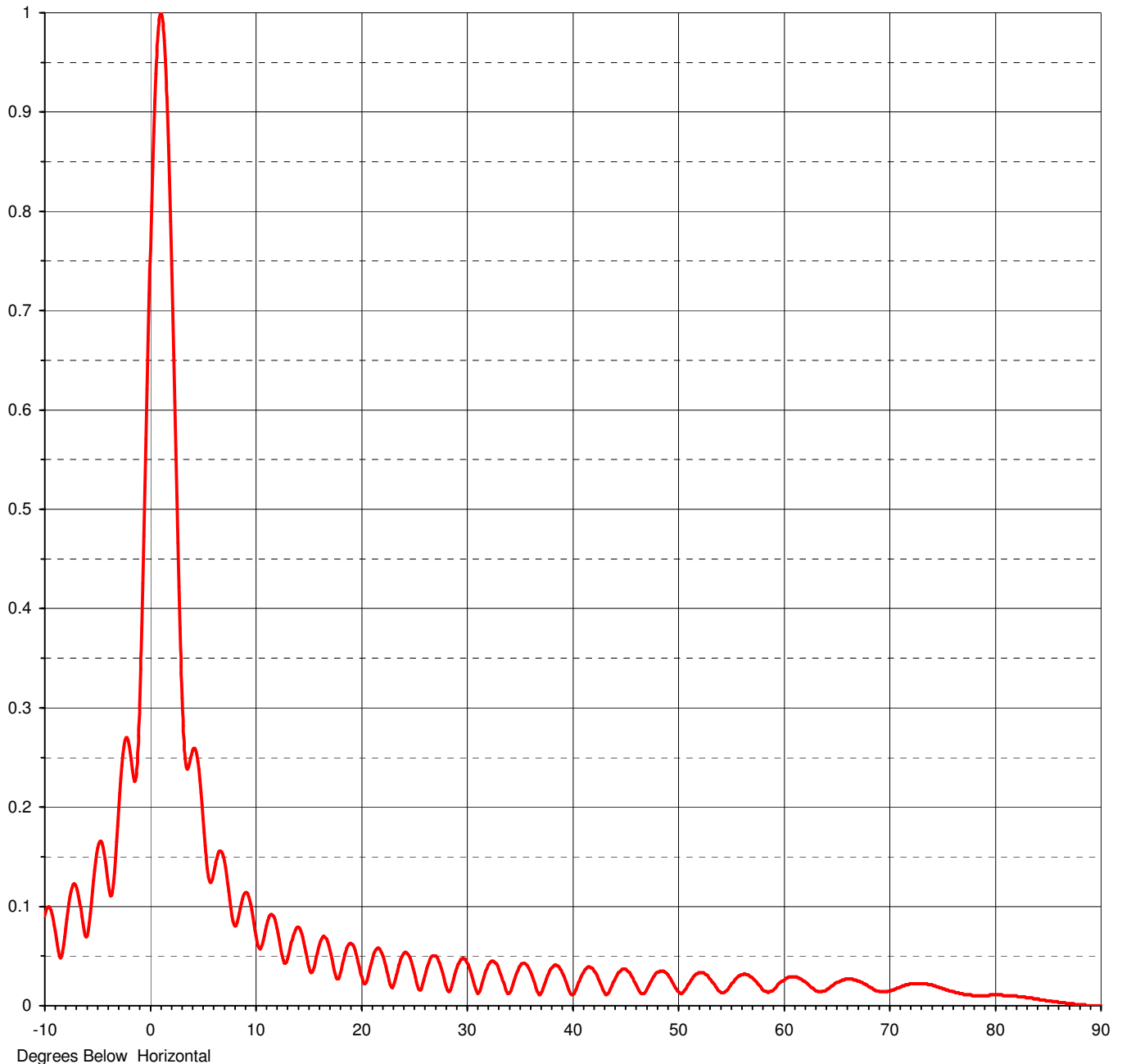




Proposal Number	C-02811		
Date	12-Aug-08		
Call Letters	WYBE-DT	Channel	35
Location	Philadelphia, PA		
Customer			
Antenna Type	TFU-24EBT/VP-R 8T160SP		

## ELEVATION PATTERN

RMS Gain at Main Lobe	<b>23.00 ( 13.62 dB )</b>	Beam Tilt	<b>1.00 deg</b>
RMS Gain at Horizontal	<b>13.40 ( 11.27 dB )</b>	Frequency	<b>599.00 MHz</b>
Calculated / Measured	<b>Calculated</b>	Drawing #	<b>24E230100-90</b>



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Proposal Number **C-02811**  
 Date **12-Aug-08**  
 Call Letters **WYBE-DT** Channel **35**  
 Location **Philadelphia, PA**  
 Customer  
 Antenna Type **TFU-24EBT/VP-R 8T160SP**

## TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **24E230100-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.091	2.4	0.560	10.6	0.059	30.5	0.031	51.0	0.021	71.5	0.021
-9.5	0.098	2.6	0.466	10.8	0.066	31.0	0.014	51.5	0.029	72.0	0.022
-9.0	0.075	2.8	0.380	11.0	0.076	31.5	0.022	52.0	0.033	72.5	0.022
-8.5	0.048	3.0	0.310	11.5	0.092	32.0	0.038	52.5	0.033	73.0	0.022
-8.0	0.078	3.2	0.262	12.0	0.083	32.5	0.045	53.0	0.028	73.5	0.022
-7.5	0.115	3.4	0.240	12.5	0.055	33.0	0.040	53.5	0.021	74.0	0.021
-7.0	0.120	3.6	0.240	13.0	0.044	33.5	0.024	54.0	0.014	74.5	0.019
-6.5	0.090	3.8	0.249	13.5	0.066	34.0	0.012	54.5	0.014	75.0	0.017
-6.0	0.071	4.0	0.257	14.0	0.079	34.5	0.025	55.0	0.020	75.5	0.016
-5.5	0.115	4.2	0.259	14.5	0.069	35.0	0.039	55.5	0.027	76.0	0.014
-5.0	0.159	4.4	0.253	15.0	0.043	35.5	0.043	56.0	0.031	76.5	0.013
-4.5	0.160	4.6	0.238	15.5	0.036	36.0	0.036	56.5	0.031	77.0	0.011
-4.0	0.123	4.8	0.215	16.0	0.058	36.5	0.022	57.0	0.029	77.5	0.011
-3.5	0.123	5.0	0.188	16.5	0.070	37.0	0.011	57.5	0.024	78.0	0.010
-3.0	0.198	5.2	0.161	17.0	0.060	37.5	0.024	58.0	0.017	78.5	0.010
-2.8	0.229	5.4	0.138	17.5	0.036	38.0	0.037	58.5	0.014	79.0	0.010
-2.6	0.253	5.6	0.126	18.0	0.029	38.5	0.041	59.0	0.015	79.5	0.011
-2.4	0.267	5.8	0.125	18.5	0.051	39.0	0.036	59.5	0.021	80.0	0.011
-2.2	0.270	6.0	0.133	19.0	0.063	39.5	0.023	60.0	0.025	80.5	0.011
-2.0	0.262	6.2	0.144	19.5	0.056	40.0	0.011	60.5	0.029	81.0	0.010
-1.8	0.247	6.4	0.152	20.0	0.034	40.5	0.020	61.0	0.029	81.5	0.010
-1.6	0.231	6.6	0.156	20.5	0.023	41.0	0.032	61.5	0.028	82.0	0.010
-1.4	0.227	6.8	0.153	21.0	0.043	41.5	0.039	62.0	0.025	82.5	0.009
-1.2	0.249	7.0	0.145	21.5	0.057	42.0	0.037	62.5	0.020	83.0	0.008
-1.0	0.303	7.2	0.131	22.0	0.053	42.5	0.027	63.0	0.016	83.5	0.008
-0.8	0.380	7.4	0.115	22.5	0.034	43.0	0.015	63.5	0.014	84.0	0.007
-0.6	0.473	7.6	0.098	23.0	0.018	43.5	0.013	64.0	0.015	84.5	0.006
-0.4	0.571	7.8	0.085	23.5	0.035	44.0	0.025	64.5	0.020	85.0	0.005
-0.2	0.670	8.0	0.080	24.0	0.051	44.5	0.034	65.0	0.023	85.5	0.004
0.0	0.762	8.2	0.084	24.5	0.052	45.0	0.037	65.5	0.026	86.0	0.003
0.2	0.845	8.4	0.093	25.0	0.037	45.5	0.033	66.0	0.027	86.5	0.003
0.4	0.912	8.6	0.103	25.5	0.017	46.0	0.023	66.5	0.027	87.0	0.002
0.6	0.962	8.8	0.111	26.0	0.026	46.5	0.013	67.0	0.025	87.5	0.001
0.8	0.992	9.0	0.114	26.5	0.044	47.0	0.015	67.5	0.022	88.0	0.001
1.0	1.000	9.2	0.113	27.0	0.050	47.5	0.025	68.0	0.019	88.5	0.001
1.2	0.987	9.4	0.106	27.5	0.042	48.0	0.033	68.5	0.016	89.0	0.000
1.4	0.953	9.6	0.096	28.0	0.022	48.5	0.035	69.0	0.014	89.5	0.000
1.6	0.900	9.8	0.090	28.5	0.016	49.0	0.032	69.5	0.014	90.0	0.000
1.8	0.830	10.0	0.076	29.0	0.035	49.5	0.024	70.0	0.015		
2.0	0.747	10.2	0.064	29.5	0.047	50.0	0.015	70.5	0.017		
2.2	0.656	10.4	0.058	30.0	0.045	50.5	0.013	71.0	0.019		

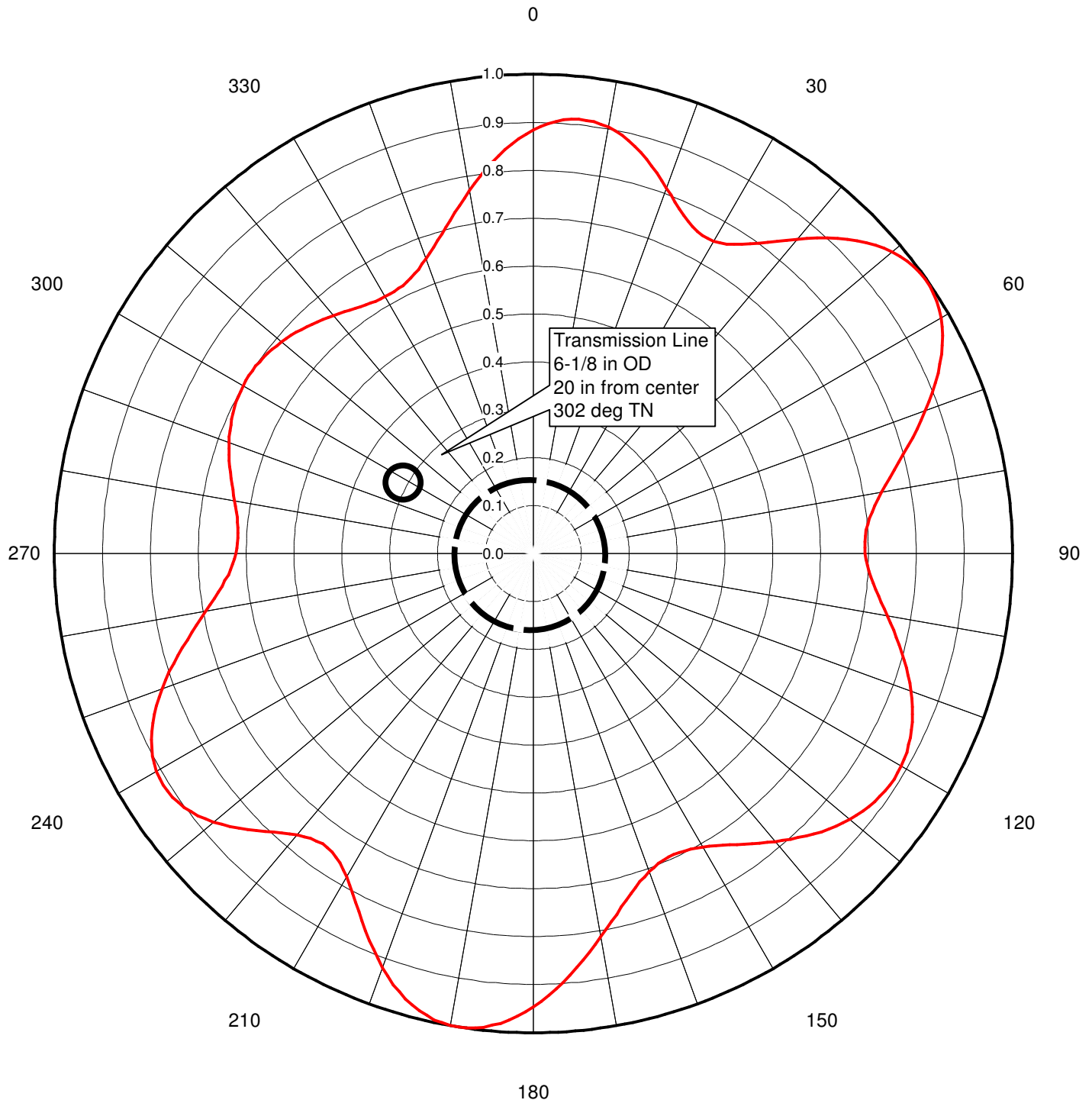
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Proposal Number	<b>C-02811</b>		
Date	<b>12-Aug-08</b>		
Call Letters	<b>WYBE-DT</b>	Channel	<b>35</b>
Location	<b>Philadelphia, PA</b>		
Customer			
Antenna Type	<b>TFU-24EBT/VP-R 8T160SP</b>		

## AZIMUTH PATTERN

Gain **1.60** (2.04 dB)  
Calculated / Measured **Calculated**

Frequency **599.00 MHz**  
Drawing # **8T160-35H**





Proposal Number

**C-02811**

Date

**12-Aug-08**

Call Letters

**WYBE-DT**

Channel

**35**

Location

**Philadelphia, PA**

Customer

Antenna Type

**TFU-24EBT/VP-R 8T160SP****TABULATION OF AZIMUTH PATTERN**Azimuth Pattern Drawing #: **8T160-35H**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.884	45	0.927	90	0.692	135	0.828	180	0.946	225	0.818	270	0.621	315	0.669
1	0.891	46	0.940	91	0.695	136	0.819	181	0.956	226	0.829	271	0.619	316	0.665
2	0.898	47	0.951	92	0.697	137	0.811	182	0.966	227	0.840	272	0.617	317	0.661
3	0.902	48	0.962	93	0.702	138	0.802	183	0.974	228	0.851	273	0.617	318	0.657
4	0.907	49	0.970	94	0.706	139	0.793	184	0.982	229	0.862	274	0.618	319	0.652
5	0.909	50	0.979	95	0.712	140	0.784	185	0.988	230	0.872	275	0.619	320	0.648
6	0.911	51	0.985	96	0.718	141	0.776	186	0.994	231	0.880	276	0.621	321	0.644
7	0.910	52	0.991	97	0.726	142	0.767	187	0.997	232	0.889	277	0.623	322	0.640
8	0.910	53	0.994	98	0.733	143	0.758	188	1.000	233	0.895	278	0.626	323	0.636
9	0.907	54	0.997	99	0.742	144	0.749	189	1.000	234	0.901	279	0.630	324	0.632
10	0.903	55	0.998	100	0.750	145	0.741	190	1.000	235	0.905	280	0.633	325	0.629
11	0.898	56	0.998	101	0.759	146	0.733	191	0.997	236	0.909	281	0.637	326	0.626
12	0.892	57	0.996	102	0.768	147	0.726	192	0.995	237	0.910	282	0.641	327	0.623
13	0.884	58	0.993	103	0.778	148	0.719	193	0.989	238	0.911	283	0.646	328	0.621
14	0.876	59	0.988	104	0.787	149	0.713	194	0.984	239	0.910	284	0.650	329	0.620
15	0.866	60	0.983	105	0.796	150	0.707	195	0.975	240	0.908	285	0.655	330	0.619
16	0.856	61	0.975	106	0.805	151	0.703	196	0.967	241	0.904	286	0.659	331	0.619
17	0.845	62	0.967	107	0.814	152	0.698	197	0.956	242	0.900	287	0.663	332	0.619
18	0.834	63	0.958	108	0.823	153	0.696	198	0.946	243	0.894	288	0.668	333	0.620
19	0.823	64	0.948	109	0.831	154	0.694	199	0.933	244	0.887	289	0.672	334	0.622
20	0.812	65	0.936	110	0.839	155	0.693	200	0.920	245	0.878	290	0.676	335	0.626
21	0.801	66	0.925	111	0.846	156	0.693	201	0.906	246	0.870	291	0.680	336	0.629
22	0.790	67	0.912	112	0.854	157	0.695	202	0.891	247	0.859	292	0.683	337	0.634
23	0.781	68	0.899	113	0.860	158	0.697	203	0.876	248	0.849	293	0.686	338	0.640
24	0.772	69	0.885	114	0.866	159	0.702	204	0.861	249	0.837	294	0.689	339	0.647
25	0.765	70	0.871	115	0.871	160	0.706	205	0.846	250	0.825	295	0.692	340	0.654
26	0.758	71	0.856	116	0.876	161	0.713	206	0.831	251	0.812	296	0.694	341	0.663
27	0.755	72	0.842	117	0.879	162	0.720	207	0.817	252	0.799	297	0.696	342	0.672
28	0.751	73	0.828	118	0.883	163	0.729	208	0.803	253	0.785	298	0.698	343	0.683
29	0.752	74	0.813	119	0.885	164	0.738	209	0.791	254	0.772	299	0.699	344	0.693
30	0.752	75	0.800	120	0.887	165	0.749	210	0.779	255	0.758	300	0.700	345	0.705
31	0.757	76	0.786	121	0.887	166	0.760	211	0.770	256	0.744	301	0.700	346	0.717
32	0.761	77	0.773	122	0.888	167	0.772	212	0.761	257	0.731	302	0.700	347	0.729
33	0.769	78	0.760	123	0.887	168	0.785	213	0.756	258	0.718	303	0.700	348	0.742
34	0.777	79	0.749	124	0.886	169	0.798	214	0.751	259	0.706	304	0.699	349	0.755
35	0.789	80	0.738	125	0.883	170	0.812	215	0.750	260	0.694	305	0.698	350	0.769
36	0.800	81	0.729	126	0.881	171	0.826	216	0.748	261	0.683	306	0.696	351	0.782
37	0.813	82	0.720	127	0.877	172	0.840	217	0.751	262	0.672	307	0.694	352	0.795
38	0.827	83	0.713	128	0.873	173	0.854	218	0.754	263	0.663	308	0.692	353	0.808
39	0.841	84	0.705	129	0.868	174	0.869	219	0.760	264	0.653	309	0.690	354	0.821
40	0.856	85	0.701	130	0.863	175	0.883	220	0.767	265	0.646	310	0.687	355	0.833
41	0.871	86	0.696	131	0.856	176	0.897	221	0.776	266	0.638	311	0.684	356	0.845
42	0.886	87	0.694	132	0.850	177	0.910	222	0.785	267	0.633	312	0.680	357	0.855
43	0.900	88	0.692	133	0.843	178	0.923	223	0.795	268	0.628	313	0.677	358	0.866
44	0.914	89	0.692	134	0.836	179	0.935	224	0.806	269	0.624	314	0.673	359	0.875

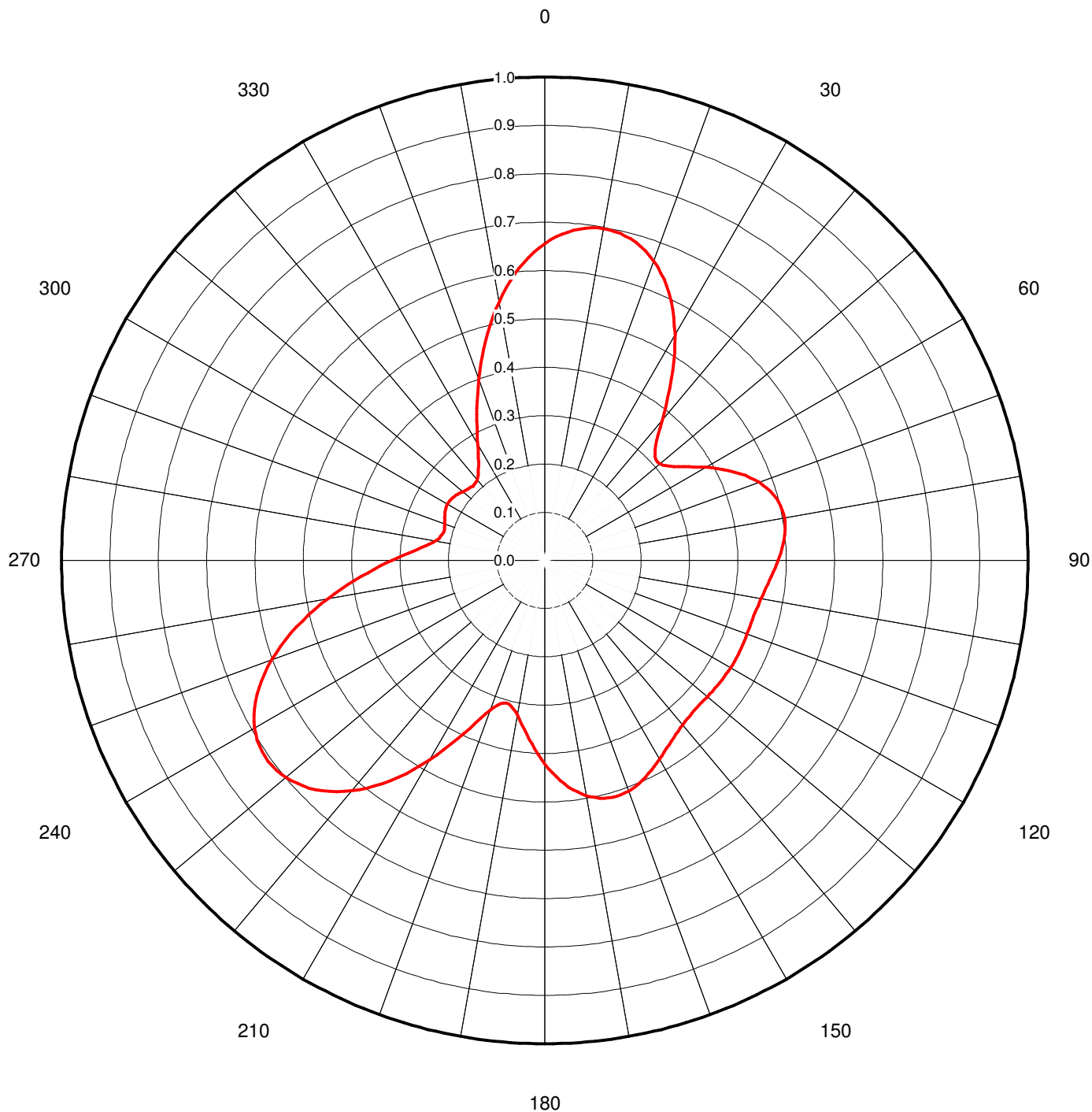
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Proposal Number	<b>C-02811</b>		
Date	<b>12-Aug-08</b>		
Call Letters	<b>WYBE-DT</b>	Channel	<b>35</b>
Location	<b>Philadelphia, PA</b>		
Customer			
Antenna Type	<b>TFU-24EBT/VP-R 8T160SP</b>		

## AZIMUTH PATTERN/VERTICAL POLARIZATION

Gain	<b>2.30</b>	<b>( 3.62 dB)</b>
Calculated / Measured		<b>Calculated</b>

Frequency	<b>599.00 MHz</b>
Drawing #	<b>8T230-35V</b>





Proposal Number

**C-02811**

Date

**12-Aug-08**

Call Letters

**WYBE-DT**

Channel

**35**

Location

**Philadelphia, PA**

Customer

Antenna Type

**TFU-24EBT/VP-R 8T160SP****TABULATION OF AZIMUTH PATTERN/VERTICAL POLARIZATION**Azimuth Pattern Drawing #: **8T230-35V**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.655	45	0.323	90	0.483	135	0.438	180	0.421	225	0.670	270	0.316	315	0.215
1	0.663	46	0.317	91	0.479	136	0.439	181	0.411	226	0.677	271	0.304	316	0.214
2	0.670	47	0.313	92	0.476	137	0.440	182	0.401	227	0.684	272	0.293	317	0.214
3	0.676	48	0.310	93	0.473	138	0.441	183	0.391	228	0.690	273	0.283	318	0.215
4	0.681	49	0.310	94	0.470	139	0.442	184	0.381	229	0.695	274	0.273	319	0.216
5	0.686	50	0.311	95	0.467	140	0.444	185	0.371	230	0.699	275	0.264	320	0.218
6	0.689	51	0.314	96	0.464	141	0.446	186	0.361	231	0.702	276	0.256	321	0.221
7	0.692	52	0.318	97	0.461	142	0.448	187	0.351	232	0.705	277	0.248	322	0.224
8	0.695	53	0.324	98	0.459	143	0.451	188	0.342	233	0.706	278	0.242	323	0.228
9	0.696	54	0.331	99	0.456	144	0.453	189	0.334	234	0.707	279	0.236	324	0.233
10	0.697	55	0.339	100	0.454	145	0.456	190	0.326	235	0.707	280	0.231	325	0.239
11	0.697	56	0.347	101	0.453	146	0.460	191	0.319	236	0.706	281	0.227	326	0.245
12	0.696	57	0.356	102	0.451	147	0.463	192	0.313	237	0.704	282	0.223	327	0.252
13	0.694	58	0.365	103	0.450	148	0.467	193	0.309	238	0.702	283	0.221	328	0.260
14	0.691	59	0.375	104	0.449	149	0.471	194	0.307	239	0.698	284	0.219	329	0.268
15	0.688	60	0.385	105	0.448	150	0.475	195	0.306	240	0.693	285	0.218	330	0.278
16	0.684	61	0.395	106	0.447	151	0.479	196	0.307	241	0.688	286	0.217	331	0.287
17	0.679	62	0.405	107	0.446	152	0.483	197	0.310	242	0.682	287	0.217	332	0.298
18	0.673	63	0.414	108	0.446	153	0.487	198	0.314	243	0.674	288	0.218	333	0.309
19	0.667	64	0.424	109	0.446	154	0.491	199	0.321	244	0.666	289	0.219	334	0.320
20	0.659	65	0.433	110	0.446	155	0.494	200	0.330	245	0.657	290	0.220	335	0.332
21	0.651	66	0.442	111	0.445	156	0.498	201	0.340	246	0.648	291	0.222	336	0.345
22	0.642	67	0.450	112	0.445	157	0.501	202	0.352	247	0.637	292	0.223	337	0.358
23	0.632	68	0.458	113	0.445	158	0.503	203	0.365	248	0.626	293	0.225	338	0.371
24	0.621	69	0.465	114	0.445	159	0.506	204	0.379	249	0.614	294	0.227	339	0.385
25	0.609	70	0.472	115	0.445	160	0.508	205	0.394	250	0.601	295	0.228	340	0.399
26	0.596	71	0.478	116	0.445	161	0.509	206	0.410	251	0.588	296	0.230	341	0.413
27	0.583	72	0.484	117	0.445	162	0.510	207	0.426	252	0.575	297	0.231	342	0.428
28	0.569	73	0.488	118	0.445	163	0.510	208	0.443	253	0.561	298	0.232	343	0.442
29	0.554	74	0.493	119	0.445	164	0.510	209	0.460	254	0.546	299	0.232	344	0.457
30	0.539	75	0.496	120	0.444	165	0.509	210	0.476	255	0.532	300	0.233	345	0.472
31	0.523	76	0.499	121	0.444	166	0.507	211	0.493	256	0.517	301	0.233	346	0.486
32	0.507	77	0.501	122	0.443	167	0.505	212	0.509	257	0.501	302	0.232	347	0.501
33	0.490	78	0.502	123	0.443	168	0.502	213	0.525	258	0.486	303	0.232	348	0.515
34	0.473	79	0.503	124	0.442	169	0.498	214	0.541	259	0.471	304	0.231	349	0.529
35	0.457	80	0.504	125	0.442	170	0.494	215	0.556	260	0.456	305	0.230	350	0.543
36	0.440	81	0.503	126	0.441	171	0.489	216	0.571	261	0.440	306	0.228	351	0.557
37	0.423	82	0.502	127	0.440	172	0.484	217	0.584	262	0.425	307	0.227	352	0.570
38	0.407	83	0.501	128	0.440	173	0.478	218	0.598	263	0.410	308	0.225	353	0.583
39	0.392	84	0.499	129	0.439	174	0.471	219	0.610	264	0.396	309	0.223	354	0.595
40	0.377	85	0.497	130	0.439	175	0.464	220	0.622	265	0.381	310	0.221	355	0.607
41	0.364	86	0.495	131	0.438	176	0.456	221	0.633	266	0.367	311	0.220	356	0.618
42	0.351	87	0.492	132	0.438	177	0.448	222	0.644	267	0.354	312	0.218	357	0.628
43	0.340	88	0.489	133	0.438	178	0.439	223	0.653	268	0.341	313	0.216	358	0.638
44	0.331	89	0.486	134	0.438	179	0.430	224	0.662	269	0.328	314	0.215	359	0.647

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