

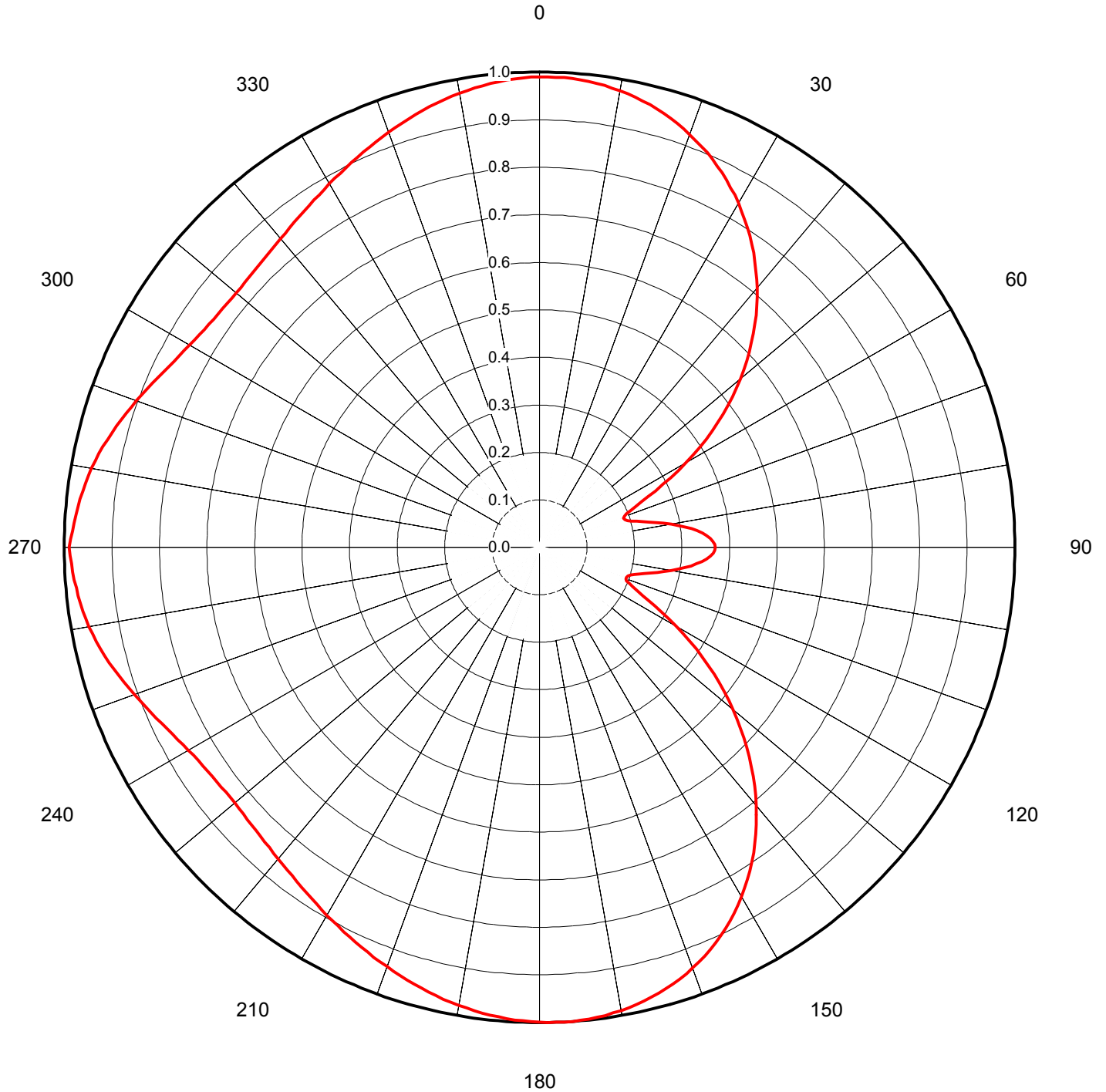


Proposal Number	<b>DCA-10792</b>	Revision:	<b>1</b>
Date	<b>4-Jan-05</b>		
Call Letters	<b>WDJT-DT</b>	Channel	<b>46</b>
Location	<b>Milwaukee, WI</b>		
Customer			
Antenna Type	<b>TFU-23ETT-R CT3</b>		

### AZIMUTH PATTERN

Gain	<b>1.70</b>	<b>( 2.30 dB)</b>
Calculated / Measured	<b>Calculated</b>	

Frequency	<b>665.00 MHz</b>
Drawing #	<b>CT3</b>





Proposal Number **DCA-10792** Revision: **1**  
 Date **4-Jan-05**  
 Call Letters **WDJT-DT** Channel **46**  
 Location **Milwaukee, WI**  
 Customer  
 Antenna Type **TFU-23ETT-R CT3**

## TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **CT3**

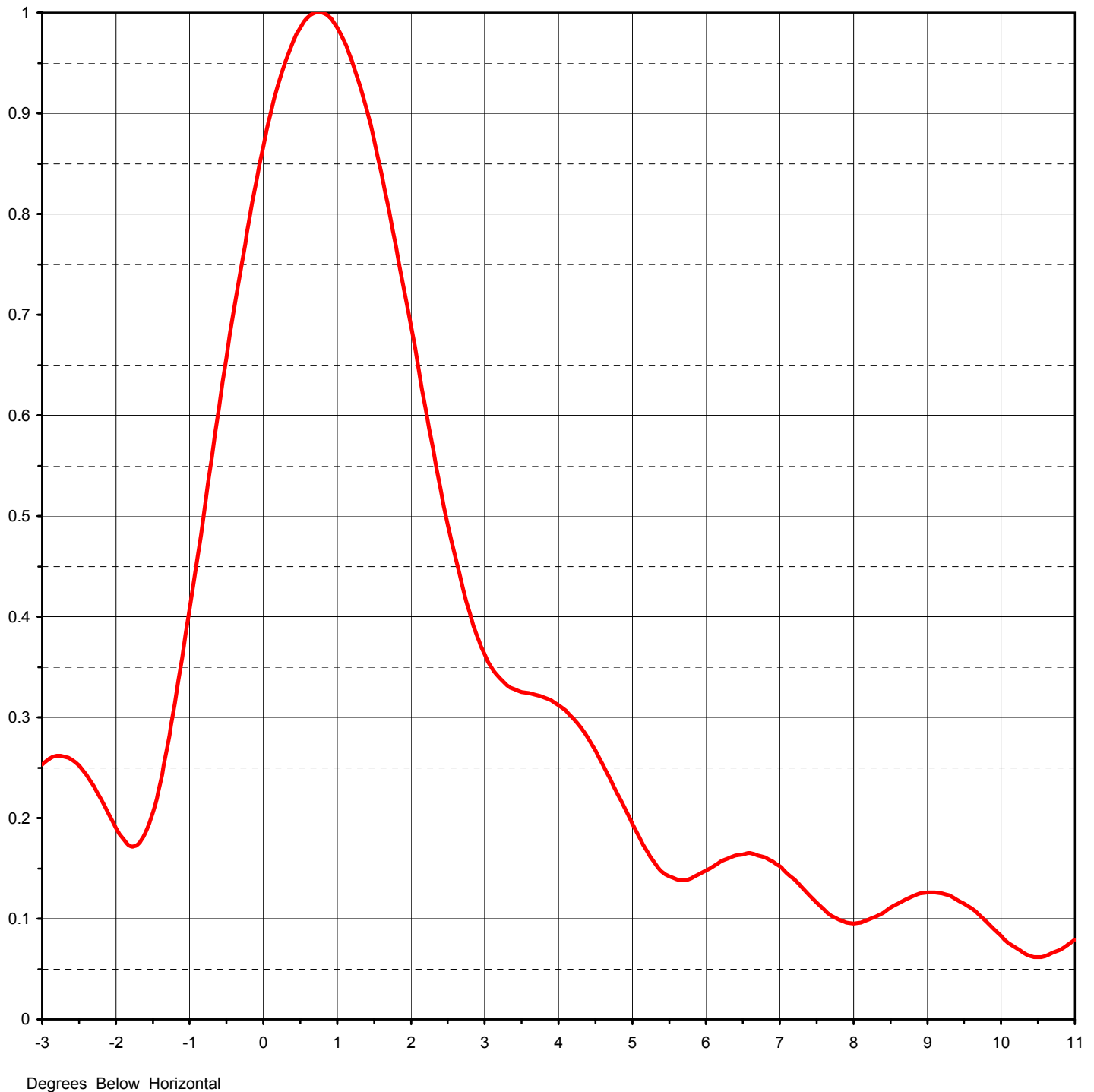
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.990	45	0.636	90	0.370	135	0.624	180	0.999	225	0.843	270	0.990	315	0.837
1	0.990	46	0.620	91	0.369	136	0.642	181	0.998	226	0.841	271	0.987	316	0.839
2	0.990	47	0.603	92	0.365	137	0.659	182	0.997	227	0.840	272	0.983	317	0.840
3	0.989	48	0.586	93	0.360	138	0.676	183	0.996	228	0.838	273	0.981	318	0.843
4	0.988	49	0.569	94	0.352	139	0.693	184	0.994	229	0.838	274	0.978	319	0.845
5	0.987	50	0.551	95	0.343	140	0.709	185	0.992	230	0.837	275	0.975	320	0.847
6	0.986	51	0.533	96	0.332	141	0.725	186	0.990	231	0.837	276	0.972	321	0.850
7	0.984	52	0.515	97	0.321	142	0.740	187	0.987	232	0.837	277	0.968	322	0.853
8	0.981	53	0.496	98	0.308	143	0.756	188	0.985	233	0.838	278	0.965	323	0.856
9	0.979	54	0.477	99	0.295	144	0.770	189	0.982	234	0.839	279	0.961	324	0.860
10	0.976	55	0.458	100	0.281	145	0.785	190	0.979	235	0.840	280	0.957	325	0.863
11	0.972	56	0.438	101	0.267	146	0.799	191	0.975	236	0.842	281	0.952	326	0.867
12	0.968	57	0.418	102	0.254	147	0.812	192	0.972	237	0.844	282	0.948	327	0.871
13	0.964	58	0.398	103	0.241	148	0.825	193	0.968	238	0.847	283	0.943	328	0.875
14	0.960	59	0.377	104	0.229	149	0.837	194	0.964	239	0.850	284	0.937	329	0.879
15	0.955	60	0.356	105	0.218	150	0.849	195	0.960	240	0.853	285	0.932	330	0.883
16	0.949	61	0.335	106	0.208	151	0.861	196	0.956	241	0.857	286	0.926	331	0.888
17	0.944	62	0.313	107	0.201	152	0.872	197	0.952	242	0.862	287	0.920	332	0.892
18	0.938	63	0.292	108	0.196	153	0.882	198	0.948	243	0.866	288	0.914	333	0.897
19	0.931	64	0.271	109	0.193	154	0.892	199	0.944	244	0.872	289	0.908	334	0.901
20	0.924	65	0.252	110	0.193	155	0.902	200	0.939	245	0.877	290	0.902	335	0.906
21	0.917	66	0.234	111	0.197	156	0.911	201	0.935	246	0.883	291	0.896	336	0.910
22	0.910	67	0.219	112	0.203	157	0.919	202	0.930	247	0.888	292	0.890	337	0.915
23	0.902	68	0.206	113	0.213	158	0.927	203	0.926	248	0.895	293	0.884	338	0.920
24	0.894	69	0.196	114	0.225	159	0.935	204	0.921	249	0.901	294	0.879	339	0.924
25	0.885	70	0.190	115	0.239	160	0.942	205	0.916	250	0.907	295	0.873	340	0.929
26	0.876	71	0.187	116	0.256	161	0.949	206	0.912	251	0.913	296	0.868	341	0.934
27	0.867	72	0.189	117	0.273	162	0.955	207	0.907	252	0.919	297	0.863	342	0.938
28	0.857	73	0.193	118	0.292	163	0.961	208	0.903	253	0.925	298	0.859	343	0.942
29	0.847	74	0.201	119	0.312	164	0.966	209	0.898	254	0.931	299	0.854	344	0.947
30	0.837	75	0.211	120	0.332	165	0.971	210	0.894	255	0.937	300	0.850	345	0.951
31	0.826	76	0.223	121	0.353	166	0.975	211	0.889	256	0.943	301	0.847	346	0.955
32	0.815	77	0.237	122	0.373	167	0.980	212	0.885	257	0.948	302	0.844	347	0.959
33	0.803	78	0.251	123	0.394	168	0.983	213	0.881	258	0.953	303	0.841	348	0.963
34	0.791	79	0.266	124	0.414	169	0.987	214	0.877	259	0.958	304	0.839	349	0.966
35	0.779	80	0.281	125	0.434	170	0.990	215	0.873	260	0.962	305	0.837	350	0.970
36	0.766	81	0.295	126	0.454	171	0.992	216	0.869	261	0.966	306	0.836	351	0.973
37	0.753	82	0.309	127	0.474	172	0.994	217	0.865	262	0.970	307	0.835	352	0.976
38	0.740	83	0.322	128	0.493	173	0.996	218	0.862	263	0.973	308	0.834	353	0.979
39	0.726	84	0.333	129	0.513	174	0.998	219	0.858	264	0.976	309	0.833	354	0.981
40	0.712	85	0.343	130	0.532	175	0.999	220	0.855	265	0.978	310	0.833	355	0.983
41	0.697	86	0.352	131	0.551	176	0.999	221	0.852	266	0.981	311	0.833	356	0.985
42	0.683	87	0.360	132	0.569	177	1.000	222	0.850	267	0.983	312	0.834	357	0.987
43	0.667	88	0.365	133	0.588	178	1.000	223	0.847	268	0.985	313	0.835	358	0.988
44	0.652	89	0.368	134	0.606	179	1.000	224	0.845	269	0.987	314	0.836	359	0.989



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Location	<b>Milwaukee, WI</b>		
Customer			
Antenna Type	<b>TFU-23ETT-R CT3</b>		

## ELEVATION PATTERN

RMS Gain at Main Lobe	<b>21.50 ( 13.32 dB )</b>	Beam Tilt	<b>0.75 deg</b>
RMS Gain at Horizontal	<b>16.20 ( 12.10 dB )</b>	Frequency	<b>665.00 MHz</b>
Calculated / Measured	<b>Calculated</b>	Drawing #	<b>23E215075</b>



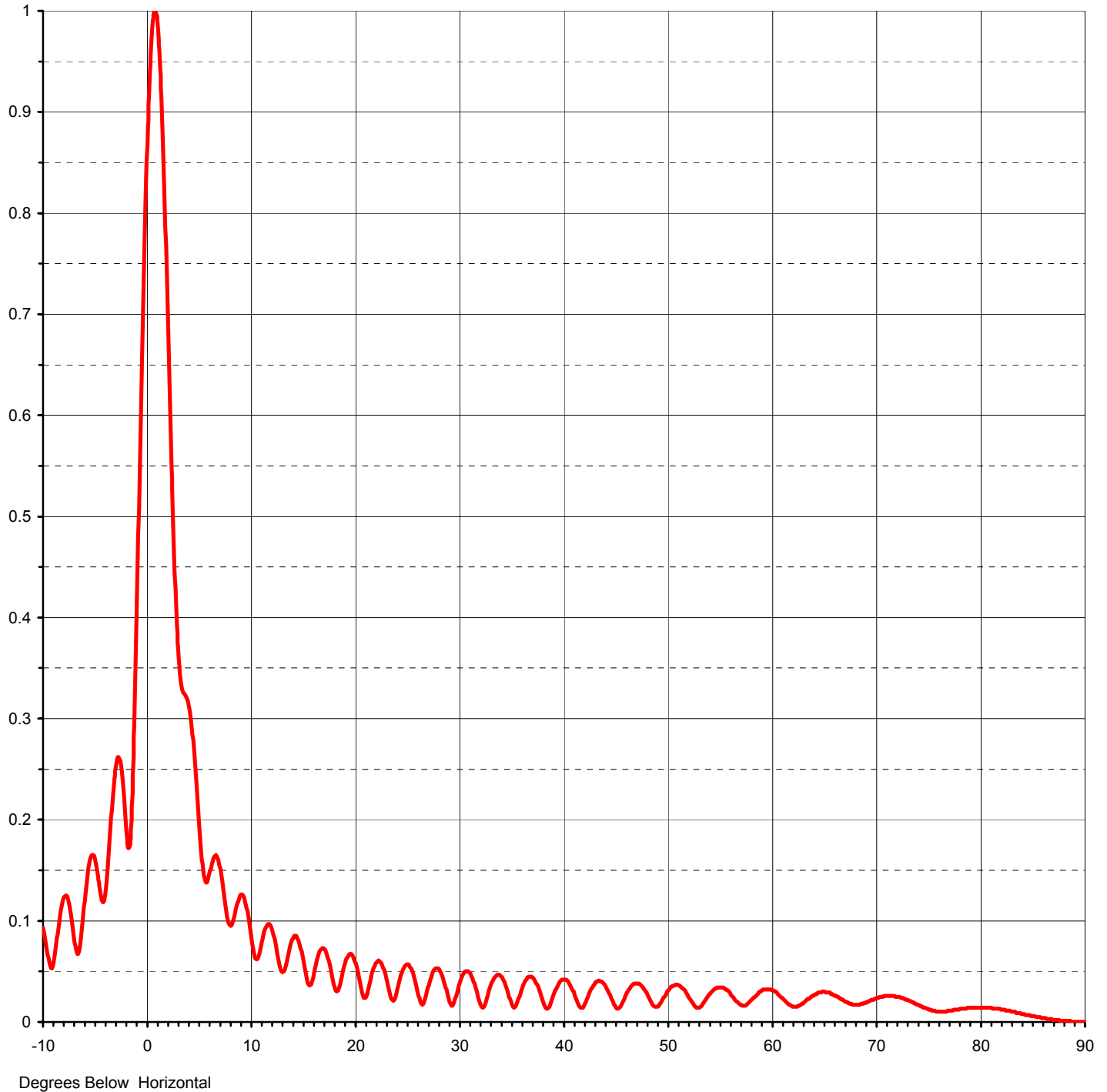


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Date	<b>4-Jan-05</b>		
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Location	<b>Milwaukee, WI</b>		
Customer			
Antenna Type	<b>TFU-23ETT-R CT3</b>		

## ELEVATION PATTERN

RMS Gain at Main Lobe	<b>21.50 ( 13.32 dB )</b>
RMS Gain at Horizontal	<b>16.20 ( 12.10 dB )</b>
Calculated / Measured	<b>Calculated</b>

Beam Tilt	<b>0.75 deg</b>
Frequency	<b>665.00 MHz</b>
Drawing #	<b>23E215075-90</b>





Proposal Number **DCA-10792**      Revision: **1**  
 Date **4-Jan-05**  
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 Location **Milwaukee, WI**  
 Customer  
 Antenna Type **TFU-23ETT-R CT3**

## TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **23E215075-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.093	2.4	0.528	10.6	0.062	30.5	0.048	51.0	0.037	71.5	0.026
-9.5	0.064	2.6	0.459	10.8	0.066	31.0	0.049	51.5	0.033	72.0	0.025
-9.0	0.058	2.8	0.403	11.0	0.074	31.5	0.038	52.0	0.026	72.5	0.024
-8.5	0.095	3.0	0.363	11.5	0.094	32.0	0.020	52.5	0.018	73.0	0.022
-8.0	0.123	3.2	0.339	12.0	0.094	32.5	0.017	53.0	0.014	73.5	0.019
-7.5	0.117	3.4	0.328	12.5	0.072	33.0	0.034	53.5	0.019	74.0	0.017
-7.0	0.082	3.6	0.324	13.0	0.050	33.5	0.045	54.0	0.027	74.5	0.014
-6.5	0.072	3.8	0.320	13.5	0.060	34.0	0.046	54.5	0.032	75.0	0.012
-6.0	0.120	4.0	0.312	14.0	0.081	34.5	0.036	55.0	0.034	75.5	0.011
-5.5	0.160	4.2	0.299	14.5	0.083	35.0	0.020	55.5	0.033	76.0	0.010
-5.0	0.160	4.4	0.279	15.0	0.065	35.5	0.016	56.0	0.029	76.5	0.010
-4.5	0.129	4.6	0.253	15.5	0.039	36.0	0.031	56.5	0.022	77.0	0.011
-4.0	0.129	4.8	0.224	16.0	0.043	36.5	0.042	57.0	0.017	77.5	0.012
-3.5	0.195	5.0	0.194	16.5	0.065	37.0	0.045	57.5	0.016	78.0	0.013
-3.0	0.253	5.2	0.167	17.0	0.073	37.5	0.037	58.0	0.021	78.5	0.013
-2.8	0.262	5.4	0.147	17.5	0.061	38.0	0.023	58.5	0.026	79.0	0.014
-2.6	0.258	5.6	0.139	18.0	0.037	38.5	0.013	59.0	0.030	79.5	0.014
-2.4	0.243	5.8	0.140	18.5	0.034	39.0	0.024	59.5	0.032	80.0	0.014
-2.2	0.219	6.0	0.148	19.0	0.055	39.5	0.036	60.0	0.032	80.5	0.014
-2.0	0.190	6.2	0.157	19.5	0.067	40.0	0.042	60.5	0.029	81.0	0.014
-1.8	0.172	6.4	0.163	20.0	0.061	40.5	0.040	61.0	0.024	81.5	0.013
-1.6	0.185	6.6	0.165	20.5	0.040	41.0	0.030	61.5	0.019	82.0	0.012
-1.4	0.235	6.8	0.161	21.0	0.024	41.5	0.017	62.0	0.015	82.5	0.011
-1.2	0.314	7.0	0.152	21.5	0.040	42.0	0.016	62.5	0.015	83.0	0.010
-1.0	0.407	7.2	0.139	22.0	0.058	42.5	0.028	63.0	0.018	83.5	0.009
-0.8	0.507	7.4	0.123	22.5	0.059	43.0	0.037	63.5	0.023	84.0	0.008
-0.6	0.608	7.6	0.109	23.0	0.045	43.5	0.041	64.0	0.026	84.5	0.007
-0.4	0.704	7.8	0.099	23.5	0.024	44.0	0.037	64.5	0.029	85.0	0.006
-0.2	0.792	8.0	0.095	24.0	0.028	44.5	0.027	65.0	0.030	85.5	0.005
0.0	0.867	8.2	0.099	24.5	0.048	45.0	0.016	65.5	0.029	86.0	0.004
0.2	0.928	8.4	0.106	25.0	0.057	45.5	0.015	66.0	0.026	86.5	0.003
0.4	0.971	8.6	0.115	25.5	0.051	46.0	0.026	66.5	0.023	87.0	0.002
0.6	0.995	8.8	0.122	26.0	0.032	46.5	0.035	67.0	0.020	87.5	0.002
0.8	1.000	9.0	0.126	26.5	0.017	47.0	0.038	67.5	0.018	88.0	0.001
1.0	0.985	9.2	0.125	27.0	0.032	47.5	0.036	68.0	0.017	88.5	0.001
1.2	0.952	9.4	0.119	27.5	0.049	48.0	0.029	68.5	0.018	89.0	0.000
1.4	0.903	9.6	0.110	28.0	0.053	48.5	0.019	69.0	0.019	89.5	0.000
1.6	0.840	9.8	0.104	28.5	0.043	49.0	0.015	69.5	0.022	90.0	0.000
1.8	0.767	10.0	0.090	29.0	0.024	49.5	0.021	70.0	0.024		
2.0	0.688	10.2	0.076	29.5	0.018	50.0	0.030	70.5	0.025		
2.2	0.606	10.4	0.066	30.0	0.036	50.5	0.035	71.0	0.026		