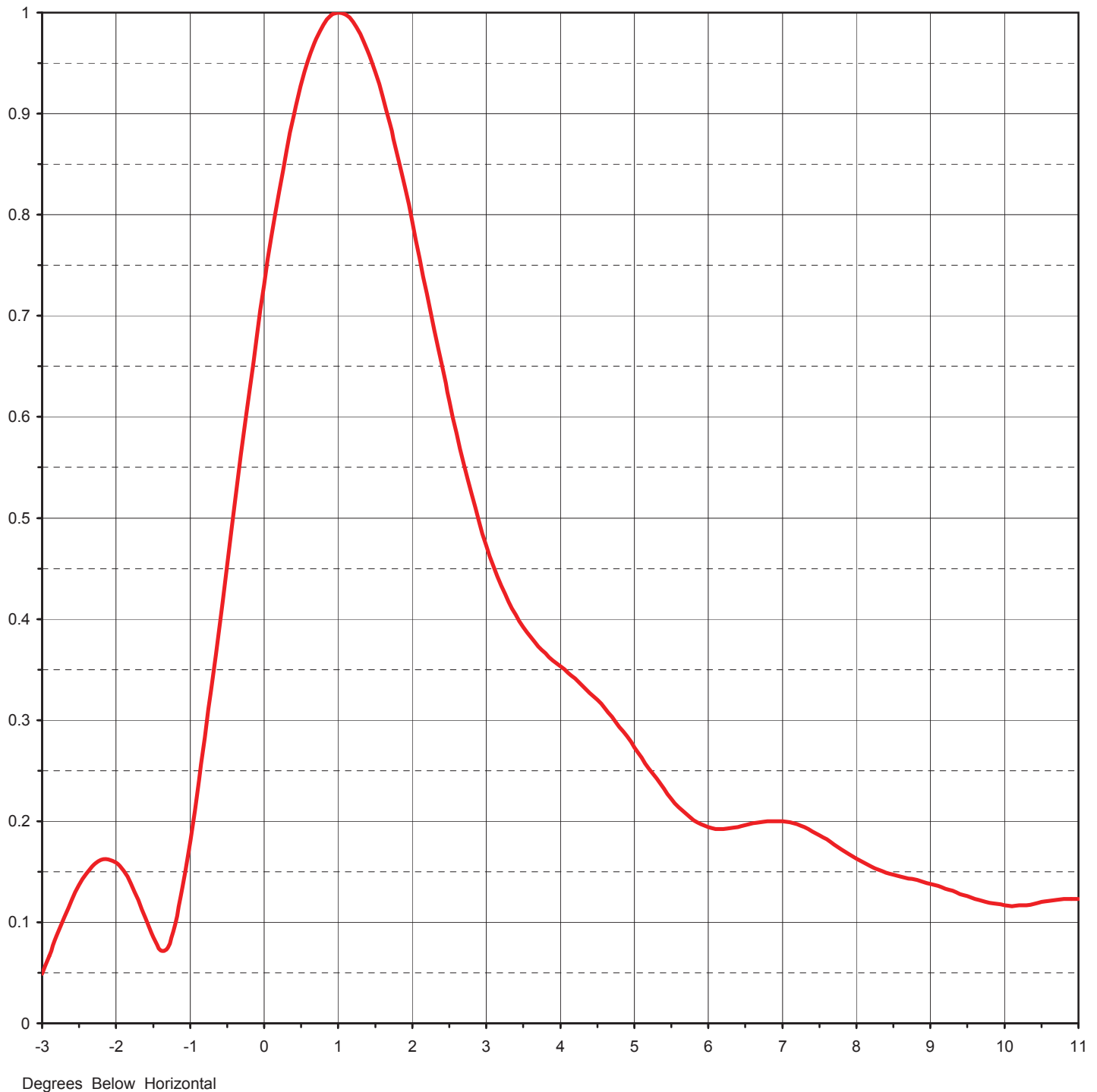




Proposal Number	<b>DCA-10457</b>	
Date	<b>9-Feb-04</b>	
Call Letters	<b>WHIO-DT</b>	Channel <b>41</b>
Location	<b>Dayton, OH</b>	
Customer		
Antenna Type	<b>TFU-28DSC-R CT3</b>	

## ELEVATION PATTERN

RMS Gain at Main Lobe	<b>19.00 ( 12.79 dB )</b>	Beam Tilt	<b>1.00 deg</b>
RMS Gain at Horizontal	<b>10.20 ( 10.09 dB )</b>	Frequency	<b>635.00 MHz</b>
Calculated / Measured	<b>Calculated</b>	Drawing #	<b>28Q190100</b>

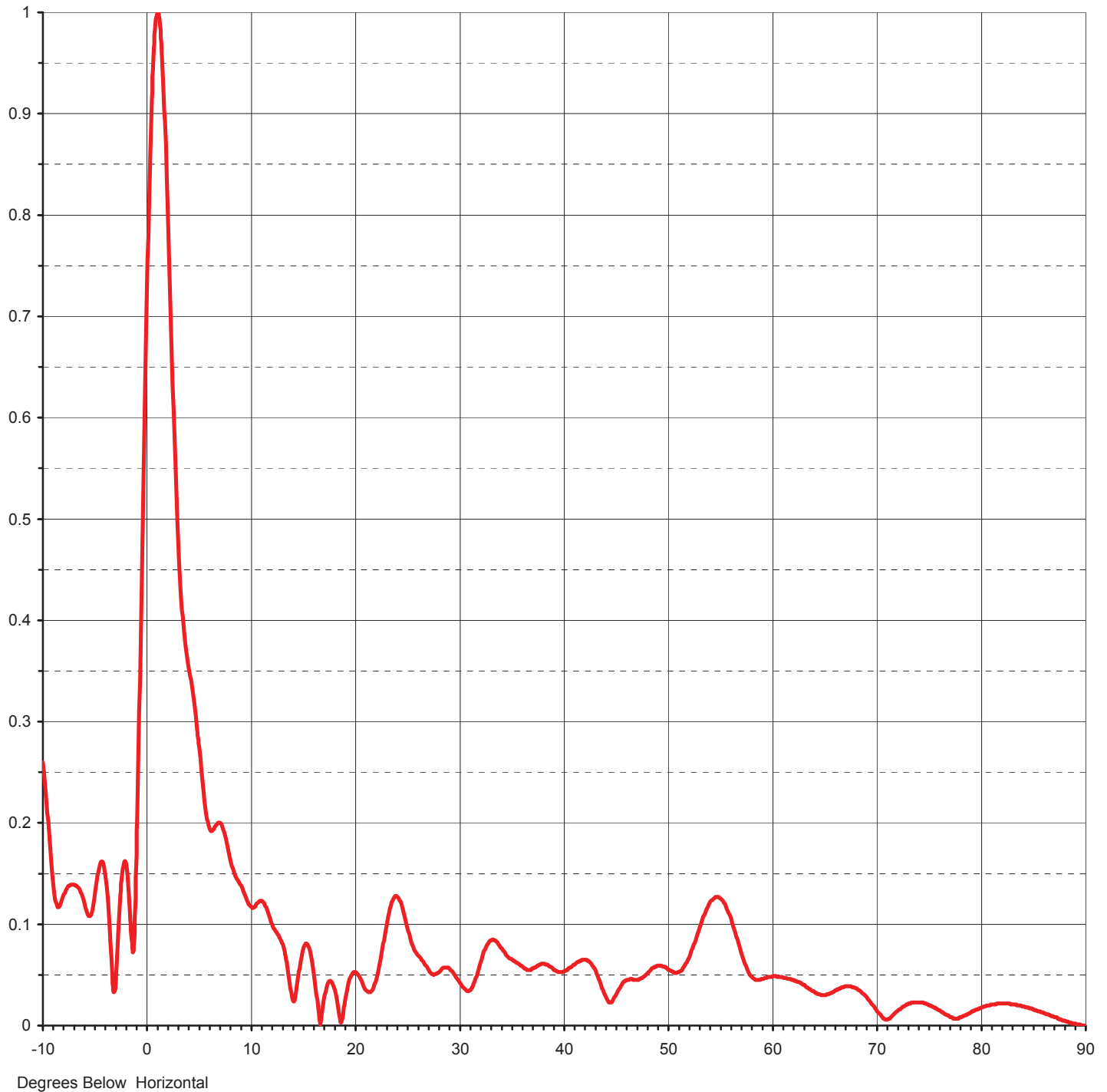




Proposal Number	<b>DCA-10457</b>	
Date	<b>9-Feb-04</b>	
Call Letters	<b>WHIO-DT</b>	Channel <b>41</b>
Location	<b>Dayton, OH</b>	
Customer		
Antenna Type	<b>TFU-28DSC-R CT3</b>	

## ELEVATION PATTERN

RMS Gain at Main Lobe	<b>19.00 ( 12.79 dB )</b>	Beam Tilt	<b>1.00 deg</b>
RMS Gain at Horizontal	<b>10.20 ( 10.09 dB )</b>	Frequency	<b>635.00 MHz</b>
Calculated / Measured	<b>Calculated</b>	Drawing #	<b>28Q190100-90</b>





Proposal Number **DCA-10457**

Date **9-Feb-04**

Call Letters **WHIO-DT** Channel **41**

Location **Dayton, OH**

Customer

Antenna Type **TFU-28DSC-R CT3**

## TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **28Q190100-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.260	2.4	0.651	10.6	0.120	30.5	0.037	51.0	0.053	71.5	0.010
-9.5	0.202	2.6	0.584	10.8	0.122	31.0	0.035	51.5	0.057	72.0	0.015
-9.0	0.140	2.8	0.524	11.0	0.123	31.5	0.043	52.0	0.066	72.5	0.019
-8.5	0.117	3.0	0.473	11.5	0.117	32.0	0.060	52.5	0.079	73.0	0.022
-8.0	0.129	3.2	0.433	12.0	0.102	32.5	0.075	53.0	0.094	73.5	0.023
-7.5	0.138	3.4	0.404	12.5	0.092	33.0	0.084	53.5	0.109	74.0	0.023
-7.0	0.139	3.6	0.382	13.0	0.083	33.5	0.084	54.0	0.120	74.5	0.022
-6.5	0.135	3.8	0.366	13.5	0.061	34.0	0.077	54.5	0.126	75.0	0.020
-6.0	0.120	4.0	0.353	14.0	0.027	34.5	0.070	55.0	0.126	75.5	0.018
-5.5	0.108	4.2	0.341	14.5	0.042	35.0	0.066	55.5	0.120	76.0	0.015
-5.0	0.130	4.4	0.327	15.0	0.073	35.5	0.062	56.0	0.108	76.5	0.011
-4.5	0.160	4.6	0.312	15.5	0.080	36.0	0.059	56.5	0.092	77.0	0.008
-4.0	0.148	4.8	0.293	16.0	0.057	36.5	0.055	57.0	0.074	77.5	0.007
-3.5	0.080	5.0	0.273	16.5	0.017	37.0	0.056	57.5	0.059	78.0	0.008
-3.0	0.049	5.2	0.252	17.0	0.022	37.5	0.059	58.0	0.049	78.5	0.010
-2.8	0.087	5.4	0.232	17.5	0.043	38.0	0.061	58.5	0.045	79.0	0.013
-2.6	0.122	5.6	0.214	18.0	0.038	38.5	0.060	59.0	0.046	79.5	0.016
-2.4	0.148	5.8	0.201	18.5	0.013	39.0	0.056	59.5	0.047	80.0	0.018
-2.2	0.162	6.0	0.194	19.0	0.020	39.5	0.053	60.0	0.048	80.5	0.020
-2.0	0.159	6.2	0.192	19.5	0.045	40.0	0.053	60.5	0.048	81.0	0.021
-1.8	0.138	6.4	0.194	20.0	0.053	40.5	0.056	61.0	0.048	81.5	0.022
-1.6	0.104	6.6	0.198	20.5	0.047	41.0	0.060	61.5	0.046	82.0	0.022
-1.4	0.072	6.8	0.200	21.0	0.036	41.5	0.063	62.0	0.045	82.5	0.022
-1.2	0.098	7.0	0.200	21.5	0.033	42.0	0.065	62.5	0.043	83.0	0.021
-1.0	0.180	7.2	0.197	22.0	0.043	42.5	0.063	63.0	0.040	83.5	0.020
-0.8	0.283	7.4	0.190	22.5	0.066	43.0	0.056	63.5	0.037	84.0	0.019
-0.6	0.396	7.6	0.182	23.0	0.096	43.5	0.044	64.0	0.034	84.5	0.018
-0.4	0.512	7.8	0.172	23.5	0.119	44.0	0.030	64.5	0.031	85.0	0.016
-0.2	0.626	8.0	0.163	24.0	0.128	44.5	0.023	65.0	0.030	85.5	0.014
0.0	0.731	8.2	0.155	24.5	0.119	45.0	0.029	65.5	0.032	86.0	0.012
0.2	0.823	8.4	0.149	25.0	0.099	45.5	0.039	66.0	0.035	86.5	0.010
0.4	0.898	8.6	0.145	25.5	0.080	46.0	0.044	66.5	0.037	87.0	0.008
0.6	0.954	8.8	0.142	26.0	0.070	46.5	0.046	67.0	0.039	87.5	0.006
0.8	0.988	9.0	0.138	26.5	0.064	47.0	0.045	67.5	0.039	88.0	0.005
1.0	1.000	9.2	0.133	27.0	0.056	47.5	0.047	68.0	0.037	88.5	0.003
1.2	0.991	9.4	0.128	27.5	0.051	48.0	0.051	68.5	0.033	89.0	0.002
1.4	0.962	9.6	0.123	28.0	0.052	48.5	0.056	69.0	0.028	89.5	0.001
1.6	0.917	9.8	0.121	28.5	0.057	49.0	0.059	69.5	0.021	90.0	0.000
1.8	0.859	10.0	0.118	29.0	0.057	49.5	0.058	70.0	0.014		
2.0	0.793	10.2	0.116	29.5	0.051	50.0	0.056	70.5	0.008		
2.2	0.722	10.4	0.117	30.0	0.044	50.5	0.053	71.0	0.006		



Proposal Number

**DCA-10457**

Date

**9-Feb-04**

Call Letters

**WHIO-DT**

Channel

**41**

Location

**Dayton, OH**

Customer

Antenna Type

**TFU-28DSC-R CT3**

## AZIMUTH PATTERN

Gain

**1.70**

**( 2.30 dB)**

Frequency

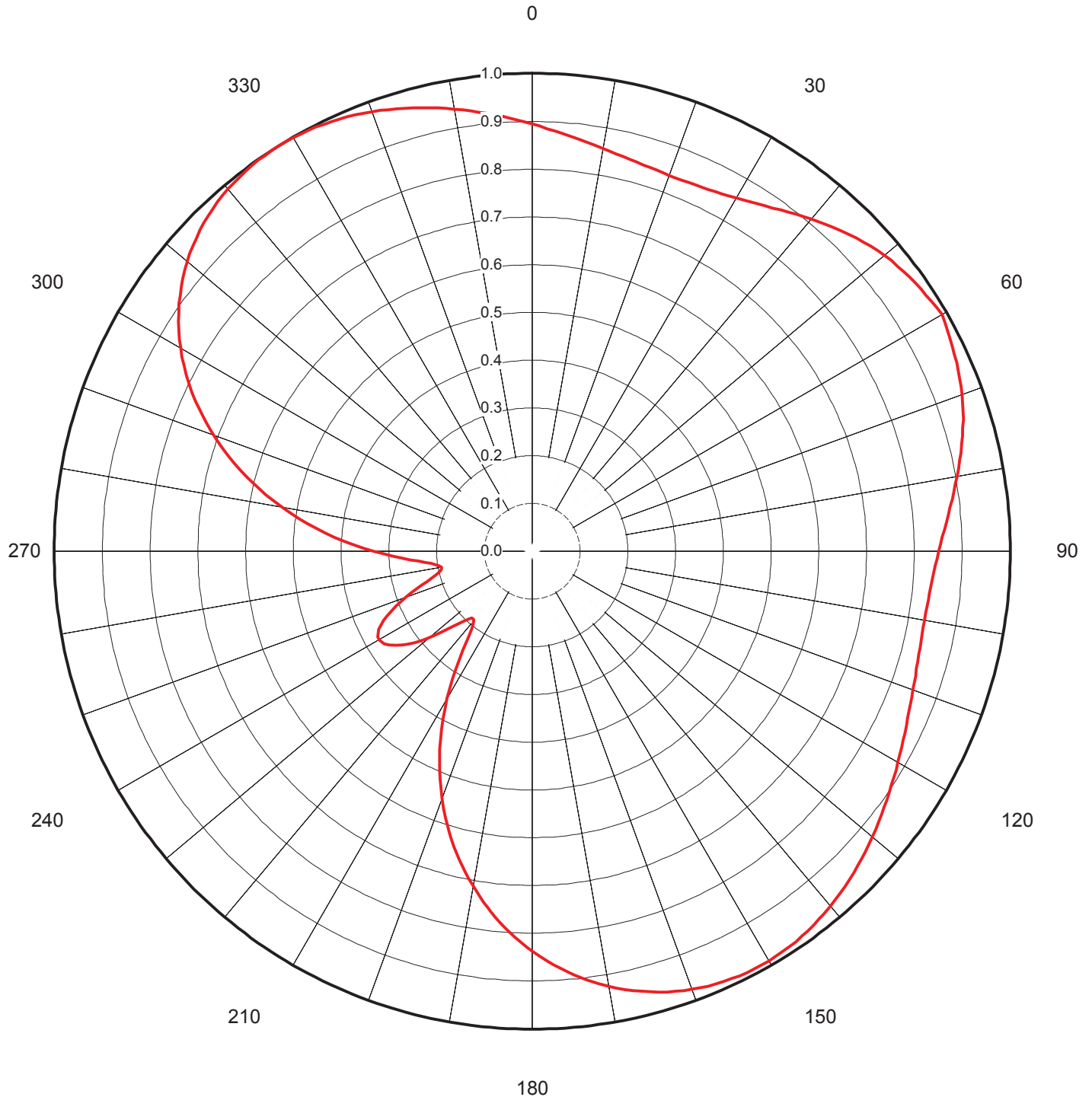
**635.00 MHz**

Calculated / Measured

**Calculated**

Drawing #

**CT3**





Proposal Number **DCA-10457**  
Date **9-Feb-04**  
Call Letters **WHIO-DT** Channel **41**  
Location **Dayton, OH**  
Customer  
Antenna Type **TFU-28DSC-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	0.894	45	0.937	90	0.850	135	0.951	180	0.837	225	0.211	270	0.332	315	0.971
1	0.889	46	0.943	91	0.847	136	0.955	181	0.826	226	0.223	271	0.353	316	0.975
2	0.885	47	0.948	92	0.844	137	0.959	182	0.815	227	0.237	272	0.373	317	0.980
3	0.881	48	0.953	93	0.841	138	0.963	183	0.803	228	0.251	273	0.394	318	0.983
4	0.877	49	0.958	94	0.839	139	0.966	184	0.791	229	0.266	274	0.414	319	0.987
5	0.873	50	0.962	95	0.837	140	0.970	185	0.779	230	0.281	275	0.434	320	0.990
6	0.869	51	0.966	96	0.836	141	0.973	186	0.766	231	0.295	276	0.454	321	0.992
7	0.865	52	0.970	97	0.835	142	0.976	187	0.753	232	0.309	277	0.474	322	0.994
8	0.862	53	0.973	98	0.834	143	0.979	188	0.740	233	0.322	278	0.493	323	0.996
9	0.858	54	0.976	99	0.833	144	0.981	189	0.726	234	0.333	279	0.513	324	0.998
10	0.855	55	0.978	100	0.833	145	0.983	190	0.712	235	0.343	280	0.532	325	0.999
11	0.852	56	0.981	101	0.833	146	0.985	191	0.697	236	0.352	281	0.551	326	0.999
12	0.850	57	0.983	102	0.834	147	0.987	192	0.683	237	0.360	282	0.569	327	1.000
13	0.847	58	0.985	103	0.835	148	0.988	193	0.667	238	0.365	283	0.588	328	1.000
14	0.845	59	0.987	104	0.836	149	0.989	194	0.652	239	0.368	284	0.606	329	1.000
15	0.843	60	0.990	105	0.837	150	0.990	195	0.636	240	0.370	285	0.624	330	0.999
16	0.841	61	0.987	106	0.839	151	0.990	196	0.620	241	0.369	286	0.642	331	0.998
17	0.840	62	0.983	107	0.840	152	0.990	197	0.603	242	0.365	287	0.659	332	0.997
18	0.838	63	0.981	108	0.843	153	0.989	198	0.586	243	0.360	288	0.676	333	0.996
19	0.838	64	0.978	109	0.845	154	0.988	199	0.569	244	0.352	289	0.693	334	0.994
20	0.837	65	0.975	110	0.847	155	0.987	200	0.551	245	0.343	290	0.709	335	0.992
21	0.837	66	0.972	111	0.850	156	0.986	201	0.533	246	0.332	291	0.725	336	0.990
22	0.837	67	0.968	112	0.853	157	0.984	202	0.515	247	0.321	292	0.740	337	0.987
23	0.838	68	0.965	113	0.856	158	0.981	203	0.496	248	0.308	293	0.756	338	0.985
24	0.839	69	0.961	114	0.860	159	0.979	204	0.477	249	0.295	294	0.770	339	0.982
25	0.840	70	0.957	115	0.863	160	0.976	205	0.458	250	0.281	295	0.785	340	0.979
26	0.842	71	0.952	116	0.867	161	0.972	206	0.438	251	0.267	296	0.799	341	0.975
27	0.844	72	0.948	117	0.871	162	0.968	207	0.418	252	0.254	297	0.812	342	0.972
28	0.847	73	0.943	118	0.875	163	0.964	208	0.398	253	0.241	298	0.825	343	0.968
29	0.850	74	0.937	119	0.879	164	0.960	209	0.377	254	0.229	299	0.837	344	0.964
30	0.853	75	0.932	120	0.883	165	0.955	210	0.356	255	0.218	300	0.849	345	0.960
31	0.857	76	0.926	121	0.888	166	0.949	211	0.335	256	0.208	301	0.861	346	0.956
32	0.862	77	0.920	122	0.892	167	0.944	212	0.313	257	0.201	302	0.872	347	0.952
33	0.866	78	0.914	123	0.897	168	0.938	213	0.292	258	0.196	303	0.882	348	0.948
34	0.872	79	0.908	124	0.901	169	0.931	214	0.271	259	0.193	304	0.892	349	0.944
35	0.877	80	0.902	125	0.906	170	0.924	215	0.252	260	0.193	305	0.902	350	0.939
36	0.883	81	0.896	126	0.910	171	0.917	216	0.234	261	0.197	306	0.911	351	0.935
37	0.888	82	0.890	127	0.915	172	0.910	217	0.219	262	0.203	307	0.919	352	0.930
38	0.895	83	0.884	128	0.920	173	0.902	218	0.206	263	0.213	308	0.927	353	0.926
39	0.901	84	0.879	129	0.924	174	0.894	219	0.196	264	0.225	309	0.935	354	0.921
40	0.907	85	0.873	130	0.929	175	0.885	220	0.190	265	0.239	310	0.942	355	0.916
41	0.913	86	0.868	131	0.934	176	0.876	221	0.187	266	0.256	311	0.949	356	0.912
42	0.919	87	0.863	132	0.938	177	0.867	222	0.189	267	0.273	312	0.955	357	0.907
43	0.925	88	0.859	133	0.942	178	0.857	223	0.193	268	0.292	313	0.961	358	0.903
44	0.931	89	0.854	134	0.947	179	0.847	224	0.201	269	0.312	314	0.966	359	0.898