



Proposal Number	C-00996	Revision:	3
Date	18-Jun-08		
Call Letters	WMDT-DT	Channel	47
Location	Salisbury, MD		
Customer			
Antenna Type	TFU-20GTH-R C170 SP		

ELEVATION PATTERN

RMS Gain at Main Lobe	15.50 (11.90 dB)	Beam Tilt	0.75 deg
RMS Gain at Horizontal	13.20 (11.21 dB)	Frequency	671.00 MHz
Calculated / Measured	Calculated	Drawing #	20G155075



Degrees Below Horizontal

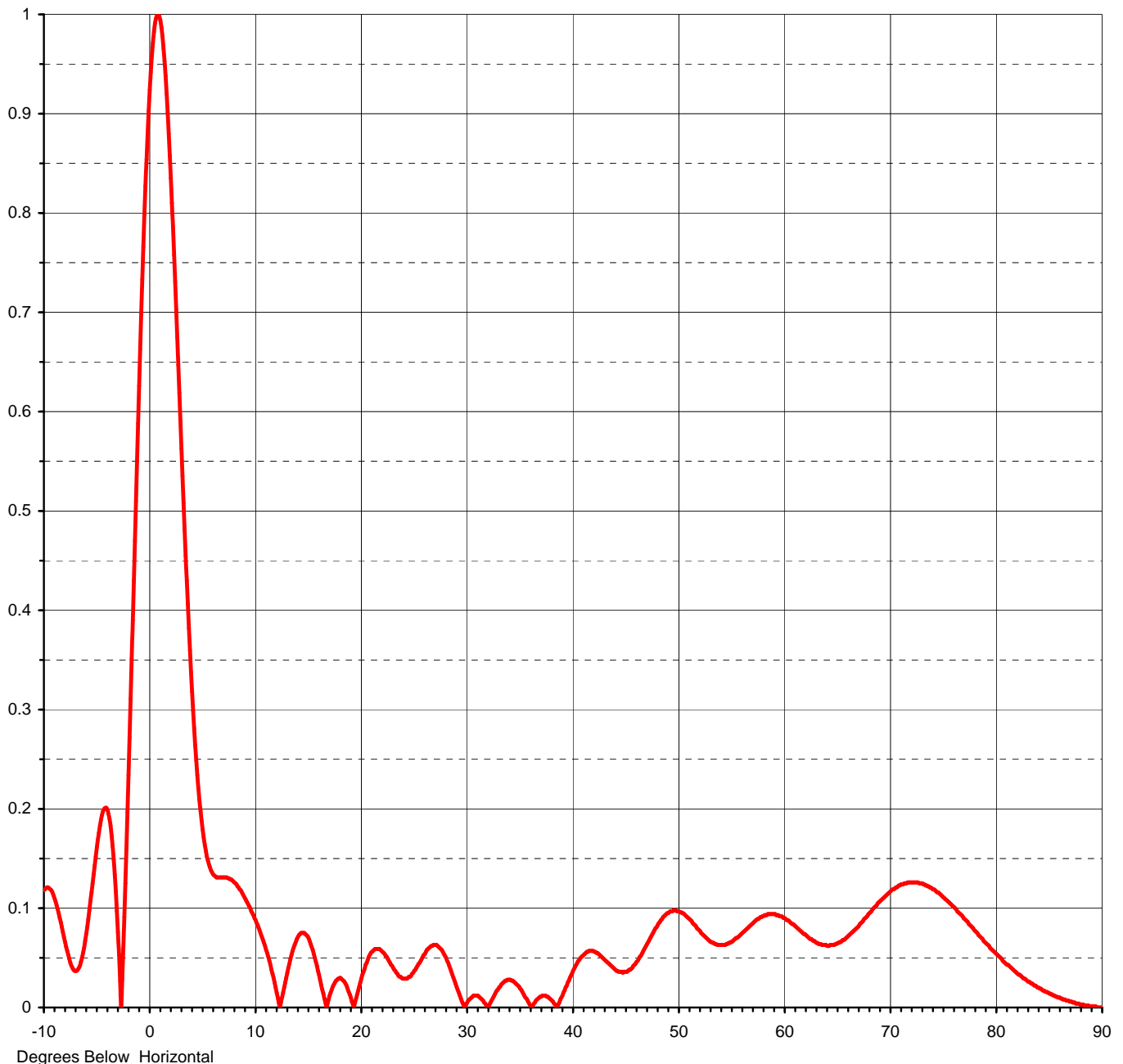


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Antenna Type	TFU-20GTH-R C170 SP		

ELEVATION PATTERN

RMS Gain at Main Lobe	15.50 (11.90 dB)
RMS Gain at Horizontal	13.20 (11.21 dB)
Calculated / Measured	Calculated

Beam Tilt	0.75 deg
Frequency	671.00 MHz
Drawing #	20G155075-90





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Date **18-Jun-08**
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Location **Salisbury, MD**
Customer
Antenna Type **TFU-20GTH-R C170 SP**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **20G155075-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.118	2.4	0.731	10.6	0.074	30.5	0.010	51.0	0.090	71.5	0.125
-9.5	0.120	2.6	0.675	10.8	0.068	31.0	0.012	51.5	0.084	72.0	0.126
-9.0	0.110	2.8	0.619	11.0	0.062	31.5	0.008	52.0	0.078	72.5	0.126
-8.5	0.090	3.0	0.563	11.5	0.043	32.0	0.000	52.5	0.072	73.0	0.125
-8.0	0.066	3.2	0.508	12.0	0.020	32.5	0.009	53.0	0.067	73.5	0.122
-7.5	0.045	3.4	0.455	12.5	0.005	33.0	0.018	53.5	0.064	74.0	0.119
-7.0	0.037	3.6	0.406	13.0	0.030	33.5	0.025	54.0	0.063	74.5	0.116
-6.5	0.046	3.8	0.360	13.5	0.053	34.0	0.028	54.5	0.063	75.0	0.111
-6.0	0.074	4.0	0.318	14.0	0.069	34.5	0.026	55.0	0.066	75.5	0.106
-5.5	0.116	4.2	0.281	14.5	0.075	35.0	0.021	55.5	0.070	76.0	0.101
-5.0	0.161	4.4	0.249	15.0	0.072	35.5	0.012	56.0	0.074	76.5	0.095
-4.5	0.194	4.6	0.221	15.5	0.058	36.0	0.003	56.5	0.079	77.0	0.089
-4.0	0.199	4.8	0.198	16.0	0.037	36.5	0.005	57.0	0.084	77.5	0.083
-3.5	0.162	5.0	0.179	16.5	0.014	37.0	0.011	57.5	0.089	78.0	0.077
-3.0	0.076	5.2	0.164	17.0	0.008	37.5	0.012	58.0	0.092	78.5	0.071
-2.8	0.027	5.4	0.152	17.5	0.023	38.0	0.008	58.5	0.094	79.0	0.065
-2.6	0.029	5.6	0.144	18.0	0.029	38.5	0.001	59.0	0.094	79.5	0.059
-2.4	0.091	5.8	0.138	18.5	0.026	39.0	0.010	59.5	0.093	80.0	0.054
-2.2	0.160	6.0	0.134	19.0	0.013	39.5	0.022	60.0	0.090	80.5	0.049
-2.0	0.234	6.2	0.132	19.5	0.005	40.0	0.034	60.5	0.087	81.0	0.043
-1.8	0.311	6.4	0.131	20.0	0.025	40.5	0.045	61.0	0.083	81.5	0.039
-1.6	0.390	6.6	0.131	20.5	0.043	41.0	0.052	61.5	0.078	82.0	0.034
-1.4	0.470	6.8	0.131	21.0	0.055	41.5	0.056	62.0	0.074	82.5	0.030
-1.2	0.550	7.0	0.131	21.5	0.059	42.0	0.057	62.5	0.069	83.0	0.026
-1.0	0.626	7.2	0.131	22.0	0.057	42.5	0.054	63.0	0.066	83.5	0.023
-0.8	0.699	7.4	0.130	22.5	0.051	43.0	0.049	63.5	0.064	84.0	0.020
-0.6	0.766	7.6	0.129	23.0	0.042	43.5	0.044	64.0	0.063	84.5	0.017
-0.4	0.827	7.8	0.128	23.5	0.034	44.0	0.039	64.5	0.063	85.0	0.014
-0.2	0.880	8.0	0.126	24.0	0.029	44.5	0.036	65.0	0.065	85.5	0.012
0.0	0.924	8.2	0.124	24.5	0.030	45.0	0.036	65.5	0.068	86.0	0.010
0.2	0.958	8.4	0.121	25.0	0.035	45.5	0.038	66.0	0.072	86.5	0.008
0.4	0.982	8.6	0.118	25.5	0.044	46.0	0.044	66.5	0.077	87.0	0.006
0.6	0.996	8.8	0.114	26.0	0.053	46.5	0.052	67.0	0.082	87.5	0.004
0.8	1.000	9.0	0.110	26.5	0.060	47.0	0.062	67.5	0.089	88.0	0.003
1.0	0.994	9.2	0.106	27.0	0.063	47.5	0.072	68.0	0.095	88.5	0.002
1.2	0.978	9.4	0.102	27.5	0.060	48.0	0.081	68.5	0.101	89.0	0.001
1.4	0.953	9.6	0.097	28.0	0.052	48.5	0.089	69.0	0.107	89.5	0.000
1.6	0.920	9.8	0.095	28.5	0.039	49.0	0.095	69.5	0.112	90.0	0.000
1.8	0.880	10.0	0.090	29.0	0.024	49.5	0.097	70.0	0.117		
2.0	0.835	10.2	0.085	29.5	0.009	50.0	0.097	70.5	0.121		
2.2	0.785	10.4	0.080	30.0	0.003	50.5	0.095	71.0	0.124		

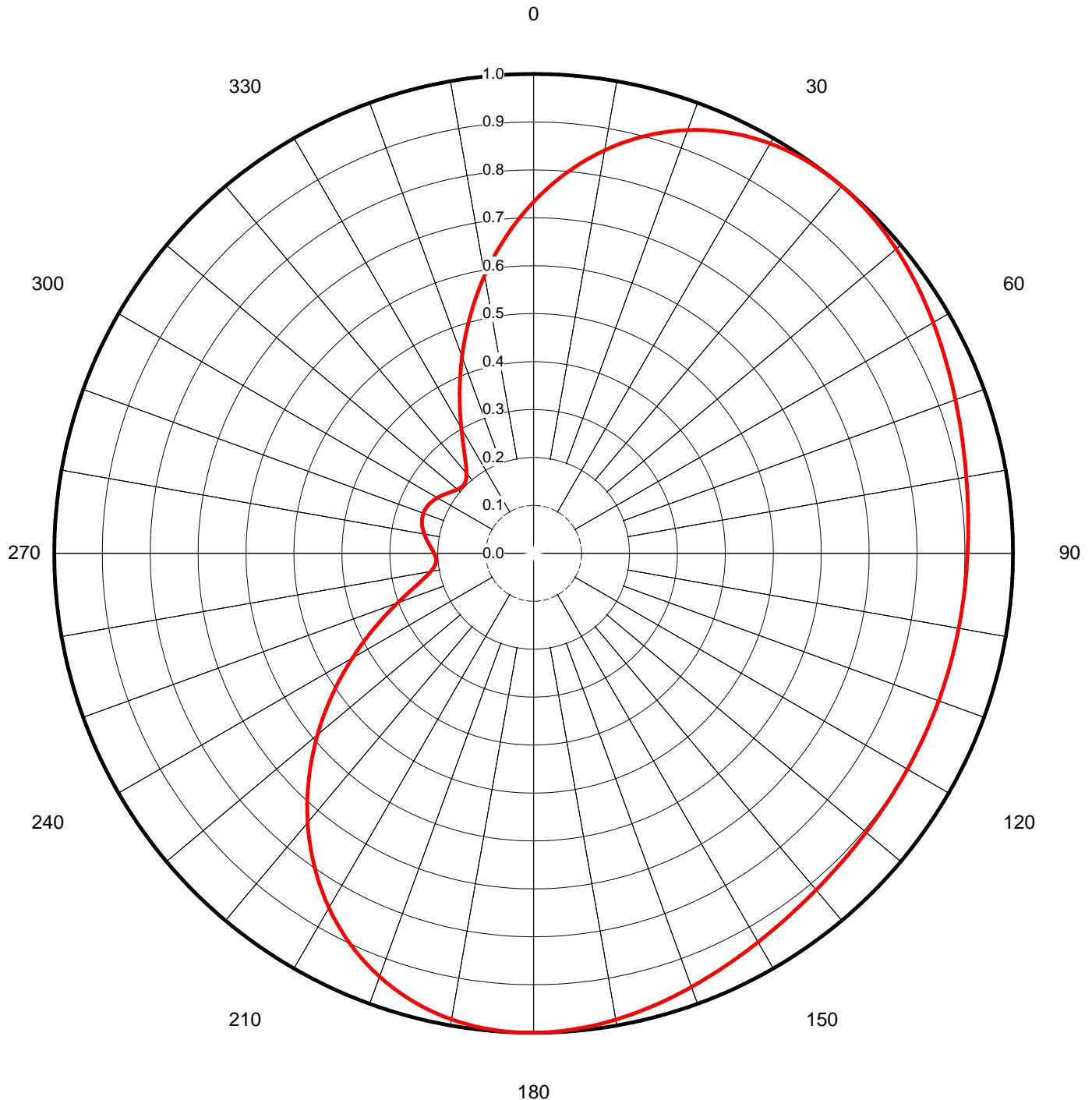
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Date	18-Jun-08		
Call Letters	WMDT-DT	Channel	47
Location	Salisbury, MD		
Customer			
Antenna Type	TFU-20GTH-R C170 SP		

AZIMUTH PATTERN

Gain	1.70	(2.30 dB)
Calculated / Measured	Calculated	

Frequency	671.00 MHz
Drawing #	TFU-C170





Proposal Number	C-00996	Revision:	3
Date	18-Jun-08		
Call Letters	WMDT-DT	Channel	47
Location	Salisbury, MD		
Customer			
Antenna Type	TFU-20GTH-R C170 SP		

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **TFU-C170**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.733	45	0.996	90	0.905	135	0.910	180	1.000	225	0.663	270	0.207	315	0.204
1	0.747	46	0.995	91	0.905	136	0.911	181	1.000	226	0.648	271	0.209	316	0.206
2	0.760	47	0.993	92	0.904	137	0.912	182	1.000	227	0.634	272	0.211	317	0.207
3	0.773	48	0.992	93	0.903	138	0.914	183	0.999	228	0.619	273	0.214	318	0.210
4	0.785	49	0.990	94	0.903	139	0.915	184	0.998	229	0.604	274	0.216	319	0.214
5	0.797	50	0.988	95	0.902	140	0.917	185	0.997	230	0.588	275	0.219	320	0.218
6	0.809	51	0.986	96	0.902	141	0.918	186	0.996	231	0.573	276	0.222	321	0.223
7	0.821	52	0.983	97	0.901	142	0.920	187	0.994	232	0.558	277	0.224	322	0.229
8	0.832	53	0.981	98	0.901	143	0.922	188	0.992	233	0.543	278	0.227	323	0.235
9	0.843	54	0.978	99	0.901	144	0.924	189	0.990	234	0.527	279	0.229	324	0.243
10	0.854	55	0.976	100	0.900	145	0.926	190	0.987	235	0.512	280	0.232	325	0.251
11	0.864	56	0.973	101	0.900	146	0.928	191	0.984	236	0.497	281	0.234	326	0.260
12	0.874	57	0.971	102	0.900	147	0.930	192	0.981	237	0.482	282	0.236	327	0.269
13	0.883	58	0.968	103	0.900	148	0.932	193	0.977	238	0.466	283	0.238	328	0.280
14	0.893	59	0.965	104	0.900	149	0.934	194	0.973	239	0.451	284	0.240	329	0.290
15	0.901	60	0.963	105	0.900	150	0.936	195	0.968	240	0.437	285	0.241	330	0.302
16	0.910	61	0.960	106	0.899	151	0.939	196	0.963	241	0.422	286	0.242	331	0.313
17	0.918	62	0.957	107	0.899	152	0.941	197	0.958	242	0.407	287	0.243	332	0.326
18	0.925	63	0.954	108	0.899	153	0.944	198	0.952	243	0.393	288	0.244	333	0.338
19	0.933	64	0.952	109	0.899	154	0.946	199	0.946	244	0.379	289	0.244	334	0.352
20	0.940	65	0.949	110	0.899	155	0.949	200	0.940	245	0.365	290	0.245	335	0.365
21	0.946	66	0.946	111	0.899	156	0.952	201	0.933	246	0.352	291	0.244	336	0.379
22	0.952	67	0.944	112	0.899	157	0.954	202	0.925	247	0.338	292	0.244	337	0.393
23	0.958	68	0.941	113	0.899	158	0.957	203	0.918	248	0.326	293	0.243	338	0.407
24	0.963	69	0.939	114	0.899	159	0.960	204	0.910	249	0.313	294	0.242	339	0.422
25	0.968	70	0.936	115	0.900	160	0.963	205	0.901	250	0.302	295	0.241	340	0.437
26	0.973	71	0.934	116	0.900	161	0.965	206	0.893	251	0.290	296	0.240	341	0.451
27	0.977	72	0.932	117	0.900	162	0.968	207	0.883	252	0.280	297	0.238	342	0.466
28	0.981	73	0.930	118	0.900	163	0.971	208	0.874	253	0.269	298	0.236	343	0.482
29	0.984	74	0.928	119	0.900	164	0.973	209	0.864	254	0.260	299	0.234	344	0.497
30	0.987	75	0.926	120	0.900	165	0.976	210	0.854	255	0.251	300	0.232	345	0.512
31	0.990	76	0.924	121	0.901	166	0.978	211	0.843	256	0.243	301	0.229	346	0.527
32	0.992	77	0.922	122	0.901	167	0.981	212	0.832	257	0.235	302	0.227	347	0.543
33	0.994	78	0.920	123	0.901	168	0.983	213	0.821	258	0.229	303	0.224	348	0.558
34	0.996	79	0.918	124	0.902	169	0.986	214	0.809	259	0.223	304	0.222	349	0.573
35	0.997	80	0.917	125	0.902	170	0.988	215	0.797	260	0.218	305	0.219	350	0.588
36	0.998	81	0.915	126	0.903	171	0.990	216	0.785	261	0.214	306	0.216	351	0.604
37	0.999	82	0.914	127	0.903	172	0.992	217	0.773	262	0.210	307	0.214	352	0.619
38	1.000	83	0.912	128	0.904	173	0.993	218	0.760	263	0.207	308	0.211	353	0.634
39	1.000	84	0.911	129	0.905	174	0.995	219	0.747	264	0.206	309	0.209	354	0.648
40	1.000	85	0.910	130	0.905	175	0.996	220	0.733	265	0.204	310	0.207	355	0.663
41	1.000	86	0.909	131	0.906	176	0.997	221	0.720	266	0.204	311	0.206	356	0.677
42	0.999	87	0.908	132	0.907	177	0.998	222	0.706	267	0.204	312	0.205	357	0.692
43	0.998	88	0.907	133	0.908	178	0.999	223	0.692	268	0.205	313	0.204	358	0.706
44	0.997	89	0.906	134	0.909	179	1.000	224	0.677	269	0.206	314	0.204	359	0.720

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