



Proposal Number **DCA-10467** Revision: **3**
Date **13-Mar-06**
Call Letters **WACY** Channel **27**
Location **Green Bay, WI**
Customer
Antenna Type **TUA-C4-8/32U-1-S**

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **TUA-C4-5510**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.975	45	0.654	90	0.591	135	0.619	180	0.990	225	0.959	270	1.000	315	0.954
1	0.971	46	0.657	91	0.588	136	0.612	181	0.987	226	0.951	271	0.994	316	0.955
2	0.967	47	0.658	92	0.585	137	0.605	182	0.984	227	0.940	272	0.989	317	0.953
3	0.963	48	0.658	93	0.583	138	0.598	183	0.981	228	0.926	273	0.983	318	0.948
4	0.959	49	0.656	94	0.582	139	0.591	184	0.978	229	0.910	274	0.978	319	0.941
5	0.955	50	0.653	95	0.581	140	0.584	185	0.975	230	0.890	275	0.972	320	0.931
6	0.949	51	0.650	96	0.575	141	0.579	186	0.968	231	0.871	276	0.961	321	0.920
7	0.943	52	0.646	97	0.569	142	0.576	187	0.961	232	0.850	277	0.951	322	0.908
8	0.937	53	0.641	98	0.564	143	0.574	188	0.956	233	0.828	278	0.941	323	0.894
9	0.932	54	0.636	99	0.558	144	0.574	189	0.950	234	0.805	279	0.932	324	0.878
10	0.927	55	0.630	100	0.554	145	0.575	190	0.946	235	0.782	280	0.924	325	0.862
11	0.914	56	0.625	101	0.548	146	0.579	191	0.931	236	0.760	281	0.904	326	0.847
12	0.901	57	0.620	102	0.544	147	0.585	192	0.916	237	0.740	282	0.884	327	0.831
13	0.887	58	0.615	103	0.542	148	0.593	193	0.902	238	0.721	283	0.864	328	0.816
14	0.873	59	0.610	104	0.540	149	0.603	194	0.889	239	0.704	284	0.845	329	0.803
15	0.859	60	0.604	105	0.541	150	0.615	195	0.877	240	0.689	285	0.827	330	0.791
16	0.843	61	0.600	106	0.540	151	0.627	196	0.862	241	0.678	286	0.806	331	0.779
17	0.826	62	0.596	107	0.541	152	0.641	197	0.848	242	0.669	287	0.787	332	0.771
18	0.810	63	0.592	108	0.544	153	0.656	198	0.836	243	0.665	288	0.769	333	0.764
19	0.794	64	0.588	109	0.548	154	0.673	199	0.827	244	0.664	289	0.754	334	0.761
20	0.778	65	0.585	110	0.553	155	0.692	200	0.819	245	0.666	290	0.741	335	0.761
21	0.760	66	0.582	111	0.557	156	0.709	201	0.810	246	0.672	291	0.726	336	0.761
22	0.743	67	0.579	112	0.563	157	0.728	202	0.803	247	0.681	292	0.713	337	0.765
23	0.726	68	0.577	113	0.569	158	0.747	203	0.799	248	0.693	293	0.704	338	0.771
24	0.711	69	0.576	114	0.575	159	0.767	204	0.797	249	0.709	294	0.698	339	0.780
25	0.696	70	0.576	115	0.581	160	0.788	205	0.798	250	0.728	295	0.694	340	0.792
26	0.680	71	0.576	116	0.589	161	0.805	206	0.800	251	0.744	296	0.695	341	0.801
27	0.667	72	0.577	117	0.597	162	0.823	207	0.806	252	0.763	297	0.699	342	0.812
28	0.654	73	0.579	118	0.604	163	0.841	208	0.814	253	0.785	298	0.706	343	0.825
29	0.643	74	0.583	119	0.611	164	0.859	209	0.824	254	0.808	299	0.716	344	0.839
30	0.634	75	0.588	120	0.616	165	0.878	210	0.835	255	0.833	300	0.728	345	0.855
31	0.625	76	0.587	121	0.624	166	0.889	211	0.848	256	0.851	301	0.744	346	0.869
32	0.618	77	0.587	122	0.630	167	0.901	212	0.862	257	0.870	302	0.762	347	0.883
33	0.613	78	0.588	123	0.635	168	0.913	213	0.877	258	0.890	303	0.781	348	0.897
34	0.610	79	0.591	124	0.639	169	0.924	214	0.891	259	0.909	304	0.800	349	0.912
35	0.608	80	0.594	125	0.642	170	0.935	215	0.906	260	0.930	305	0.819	350	0.927
36	0.610	81	0.593	126	0.644	171	0.943	216	0.920	261	0.940	306	0.841	351	0.934
37	0.613	82	0.593	127	0.646	172	0.951	217	0.934	262	0.951	307	0.862	352	0.942
38	0.617	83	0.593	128	0.646	173	0.959	218	0.945	263	0.962	308	0.880	353	0.950
39	0.622	84	0.593	129	0.644	174	0.967	219	0.954	264	0.974	309	0.897	354	0.957
40	0.627	85	0.594	130	0.641	175	0.976	220	0.961	265	0.985	310	0.912	355	0.965
41	0.633	86	0.593	131	0.640	176	0.978	221	0.967	266	0.988	311	0.926	356	0.967
42	0.640	87	0.592	132	0.636	177	0.981	222	0.970	267	0.991	312	0.938	357	0.969
43	0.645	88	0.591	133	0.632	178	0.984	223	0.969	268	0.994	313	0.946	358	0.971
44	0.650	89	0.591	134	0.626	179	0.987	224	0.966	269	0.997	314	0.952	359	0.973

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Antenna Type

TUA-C4-8/32U-1-S

AZIMUTH PATTERN

Gain

1.60**(2.04 dB)**

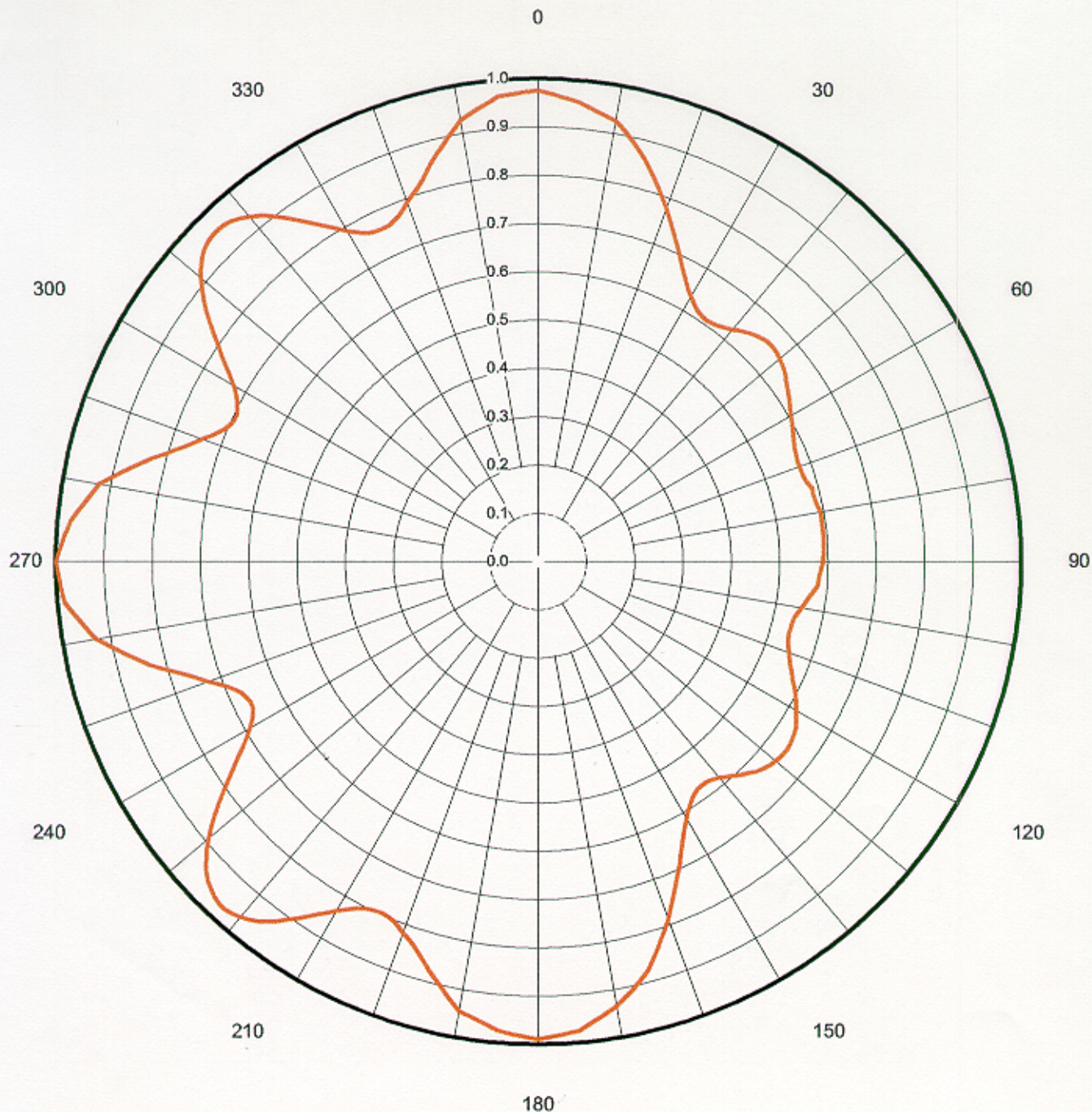
Frequency

551.00 MHz

Calculated / Measured

Calculated

Drawing #

TUA-C4-5510



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TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **08U153080-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.101	2.4	0.665	10.6	0.091	30.5	0.070	51.0	0.019	71.5	0.128
-9.5	0.065	2.6	0.595	10.8	0.081	31.0	0.057	51.5	0.016	72.0	0.125
-9.0	0.052	2.8	0.526	11.0	0.076	31.5	0.044	52.0	0.018	72.5	0.122
-8.5	0.069	3.0	0.458	11.5	0.083	32.0	0.033	52.5	0.021	73.0	0.118
-8.0	0.079	3.2	0.394	12.0	0.098	32.5	0.026	53.0	0.023	73.5	0.113
-7.5	0.065	3.4	0.337	12.5	0.100	33.0	0.025	53.5	0.023	74.0	0.108
-7.0	0.032	3.6	0.291	13.0	0.086	33.5	0.028	54.0	0.020	74.5	0.103
-6.5	0.072	3.8	0.257	13.5	0.060	34.0	0.031	54.5	0.014	75.0	0.098
-6.0	0.166	4.0	0.237	14.0	0.042	34.5	0.033	55.0	0.009	75.5	0.092
-5.5	0.267	4.2	0.230	14.5	0.057	35.0	0.031	55.5	0.012	76.0	0.086
-5.0	0.357	4.4	0.233	15.0	0.085	35.5	0.027	56.0	0.023	76.5	0.081
-4.5	0.415	4.6	0.239	15.5	0.106	36.0	0.022	56.5	0.036	77.0	0.076
-4.0	0.427	4.8	0.246	16.0	0.113	36.5	0.020	57.0	0.050	77.5	0.070
-3.5	0.380	5.0	0.251	16.5	0.104	37.0	0.025	57.5	0.063	78.0	0.065
-3.0	0.275	5.2	0.251	17.0	0.083	37.5	0.032	58.0	0.074	78.5	0.061
-2.8	0.218	5.4	0.246	17.5	0.057	38.0	0.039	58.5	0.084	79.0	0.056
-2.6	0.158	5.6	0.237	18.0	0.035	38.5	0.044	59.0	0.091	79.5	0.052
-2.4	0.104	5.8	0.223	18.5	0.031	39.0	0.045	59.5	0.095	80.0	0.048
-2.2	0.093	6.0	0.205	19.0	0.039	39.5	0.042	60.0	0.096	80.5	0.044
-2.0	0.145	6.2	0.184	19.5	0.040	40.0	0.037	60.5	0.094	81.0	0.041
-1.8	0.224	6.4	0.161	20.0	0.029	40.5	0.030	61.0	0.089	81.5	0.038
-1.6	0.311	6.6	0.140	20.5	0.014	41.0	0.024	61.5	0.081	82.0	0.035
-1.4	0.401	6.8	0.123	21.0	0.031	41.5	0.023	62.0	0.071	82.5	0.032
-1.2	0.491	7.0	0.113	21.5	0.063	42.0	0.026	62.5	0.059	83.0	0.030
-1.0	0.578	7.2	0.112	22.0	0.094	42.5	0.031	63.0	0.045	83.5	0.028
-0.8	0.660	7.4	0.119	22.5	0.116	43.0	0.034	63.5	0.031	84.0	0.026
-0.6	0.736	7.6	0.132	23.0	0.126	43.5	0.034	64.0	0.019	84.5	0.024
-0.4	0.804	7.8	0.147	23.5	0.123	44.0	0.030	64.5	0.020	85.0	0.023
-0.2	0.864	8.0	0.162	24.0	0.107	44.5	0.024	65.0	0.032	85.5	0.022
0.0	0.913	8.2	0.175	24.5	0.080	45.0	0.018	65.5	0.047	86.0	0.020
0.2	0.952	8.4	0.184	25.0	0.048	45.5	0.016	66.0	0.061	86.5	0.019
0.4	0.980	8.6	0.190	25.5	0.019	46.0	0.022	66.5	0.075	87.0	0.018
0.6	0.996	8.8	0.191	26.0	0.034	46.5	0.031	67.0	0.087	87.5	0.017
0.8	1.000	9.0	0.189	26.5	0.064	47.0	0.040	67.5	0.098	88.0	0.017
1.0	0.992	9.2	0.182	27.0	0.088	47.5	0.046	68.0	0.107	88.5	0.016
1.2	0.972	9.4	0.173	27.5	0.104	48.0	0.050	68.5	0.115	89.0	0.015
1.4	0.941	9.6	0.160	28.0	0.112	48.5	0.050	69.0	0.121	89.5	0.015
1.6	0.901	9.8	0.153	28.5	0.111	49.0	0.048	69.5	0.125	90.0	0.015
1.8	0.851	10.0	0.137	29.0	0.104	49.5	0.042	70.0	0.127		
2.0	0.795	10.2	0.121	29.5	0.094	50.0	0.034	70.5	0.129		
2.2	0.732	10.4	0.105	30.0	0.081	50.5	0.026	71.0	0.129		



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ELEVATION PATTERN

RMS Gain at Main Lobe	15.40 (11.88 dB)	Beam Tilt	0.80 deg
RMS Gain at Horizontal	12.80 (11.07 dB)	Frequency	551.00 MHz
Calculated / Measured	Calculated	Drawing #	08U153080-90

