

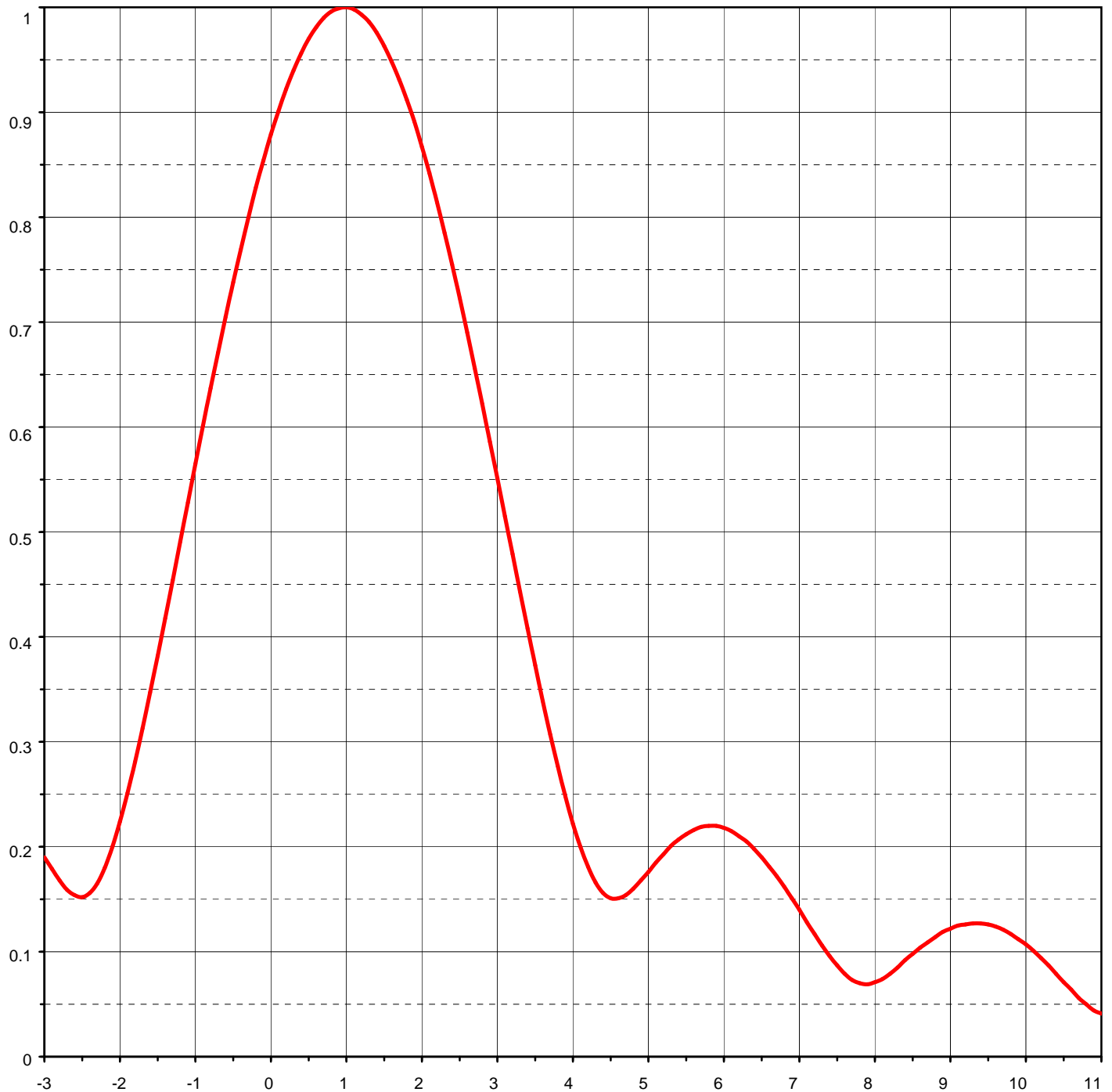


Proposal Number	<b>DCA-9056</b>	Revision:	<b>11</b>
Date	<b>17-Oct-05</b>		
Call Letters	<b>KQDF-LP</b>	Channel	<b>25</b>
Location	<b>Albuquerque, NM</b>		
Customer			
Antenna Type	<b>TUC-O5-8/40U-B</b>		

## ELEVATION PATTERN

RMS Gain at Main Lobe	<b>15.50 ( 11.90 dB )</b>
RMS Gain at Horizontal	<b>12.00 ( 10.79 dB )</b>
Calculated / Measured	<b>Calculated</b>

Beam Tilt	<b>1.00 deg</b>
Frequency	<b>539.00 MHz</b>
Drawing #	<b>08U155100</b>



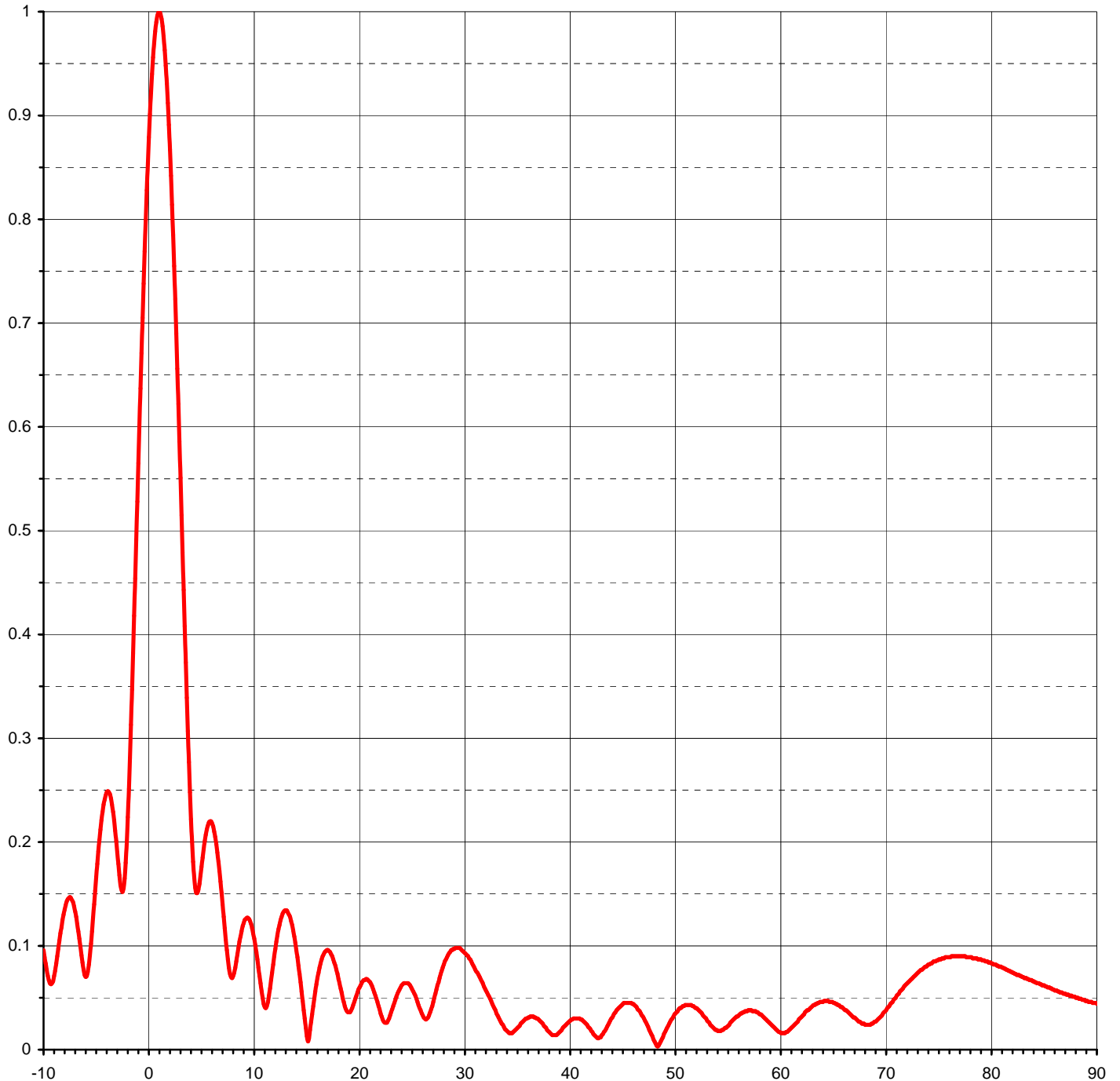


Proposal Number	<b>DCA-9056</b>	Revision:	<b>11</b>
Date	<b>17-Oct-05</b>		
Call Letters	<b>KQDF-LP</b>	Channel	<b>25</b>
Location	<b>Albuquerque, NM</b>		
Customer			
Antenna Type	<b>TUC-O5-8/40U-B</b>		

## ELEVATION PATTERN

RMS Gain at Main Lobe	<b>15.50 ( 11.90 dB )</b>
RMS Gain at Horizontal	<b>12.00 ( 10.79 dB )</b>
Calculated / Measured	<b>Calculated</b>

Beam Tilt	<b>1.00 deg</b>
Frequency	<b>539.00 MHz</b>
Drawing #	<b>08U155100-90</b>





Proposal Number **DCA-9056** Revision: **11**  
Date **17-Oct-05**  
Call Letters **KQDF-LP** Channel **25**  
Location **Albuquerque, NM**  
Customer  
Antenna Type **TUC-05-8/40U-B**

## TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **08U155100-90**

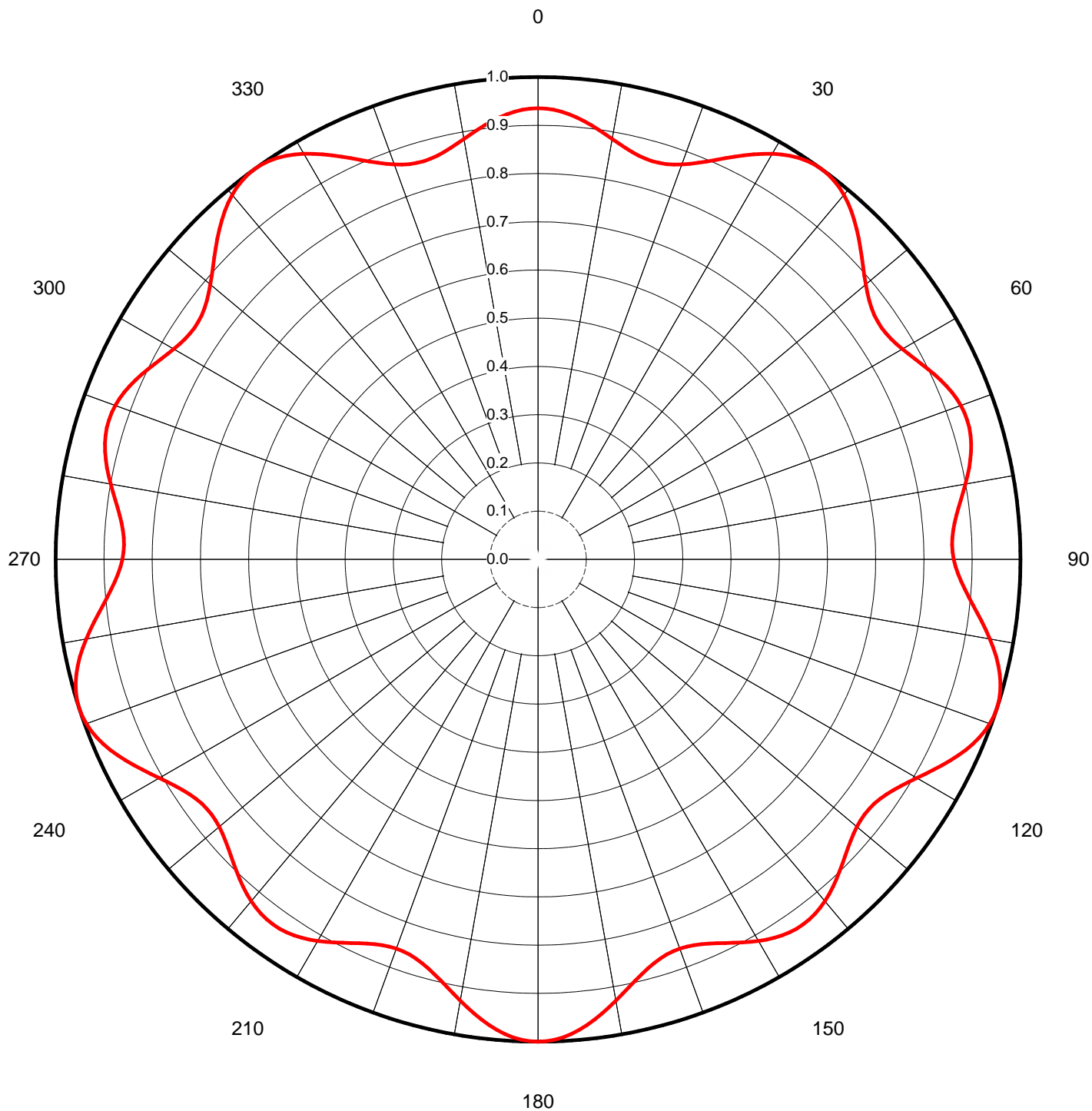
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.096	2.4	0.755	10.6	0.071	30.5	0.088	51.0	0.043	71.5	0.058
-9.5	0.067	2.6	0.690	10.8	0.056	31.0	0.079	51.5	0.043	72.0	0.064
-9.0	0.071	2.8	0.622	11.0	0.044	31.5	0.070	52.0	0.040	72.5	0.069
-8.5	0.105	3.0	0.551	11.5	0.052	32.0	0.059	52.5	0.036	73.0	0.074
-8.0	0.135	3.2	0.479	12.0	0.090	32.5	0.049	53.0	0.030	73.5	0.078
-7.5	0.147	3.4	0.408	12.5	0.120	33.0	0.038	53.5	0.023	74.0	0.082
-7.0	0.133	3.6	0.339	13.0	0.134	33.5	0.027	54.0	0.019	74.5	0.085
-6.5	0.099	3.8	0.277	13.5	0.128	34.0	0.019	54.5	0.019	75.0	0.087
-6.0	0.070	4.0	0.222	14.0	0.103	34.5	0.016	55.0	0.022	75.5	0.088
-5.5	0.102	4.2	0.181	14.5	0.065	35.0	0.020	55.5	0.028	76.0	0.089
-5.0	0.166	4.4	0.156	15.0	0.021	35.5	0.026	56.0	0.032	76.5	0.090
-4.5	0.221	4.6	0.151	15.5	0.027	36.0	0.030	56.5	0.036	77.0	0.090
-4.0	0.248	4.8	0.160	16.0	0.063	36.5	0.032	57.0	0.038	77.5	0.090
-3.5	0.236	5.0	0.176	16.5	0.087	37.0	0.030	57.5	0.037	78.0	0.089
-3.0	0.190	5.2	0.193	17.0	0.096	37.5	0.025	58.0	0.035	78.5	0.088
-2.8	0.168	5.4	0.207	17.5	0.090	38.0	0.018	58.5	0.031	79.0	0.087
-2.6	0.154	5.6	0.216	18.0	0.073	38.5	0.014	59.0	0.026	79.5	0.085
-2.4	0.156	5.8	0.220	18.5	0.050	39.0	0.016	59.5	0.021	80.0	0.083
-2.2	0.180	6.0	0.218	19.0	0.036	39.5	0.022	60.0	0.017	80.5	0.081
-2.0	0.224	6.2	0.210	19.5	0.043	40.0	0.027	60.5	0.016	81.0	0.079
-1.8	0.281	6.4	0.198	20.0	0.058	40.5	0.030	61.0	0.020	81.5	0.077
-1.6	0.347	6.6	0.181	20.5	0.067	41.0	0.030	61.5	0.025	82.0	0.074
-1.4	0.418	6.8	0.162	21.0	0.066	41.5	0.026	62.0	0.031	82.5	0.072
-1.2	0.491	7.0	0.140	21.5	0.055	42.0	0.020	62.5	0.037	83.0	0.070
-1.0	0.565	7.2	0.117	22.0	0.039	42.5	0.013	63.0	0.041	83.5	0.068
-0.8	0.637	7.4	0.096	22.5	0.026	43.0	0.012	63.5	0.044	84.0	0.066
-0.6	0.705	7.6	0.079	23.0	0.033	43.5	0.020	64.0	0.046	84.5	0.064
-0.4	0.769	7.8	0.070	23.5	0.048	44.0	0.030	64.5	0.047	85.0	0.062
-0.2	0.828	8.0	0.071	24.0	0.060	44.5	0.038	65.0	0.045	85.5	0.060
0.0	0.879	8.2	0.079	24.5	0.064	45.0	0.043	65.5	0.043	86.0	0.057
0.2	0.922	8.4	0.092	25.0	0.060	45.5	0.045	66.0	0.039	86.5	0.055
0.4	0.956	8.6	0.104	25.5	0.049	46.0	0.044	66.5	0.035	87.0	0.054
0.6	0.981	8.8	0.114	26.0	0.035	46.5	0.039	67.0	0.031	87.5	0.052
0.8	0.996	9.0	0.122	26.5	0.030	47.0	0.032	67.5	0.027	88.0	0.050
1.0	1.000	9.2	0.126	27.0	0.042	47.5	0.022	68.0	0.024	88.5	0.049
1.2	0.993	9.4	0.127	27.5	0.062	48.0	0.010	68.5	0.024	89.0	0.047
1.4	0.976	9.6	0.124	28.0	0.079	48.5	0.004	69.0	0.027	89.5	0.046
1.6	0.948	9.8	0.121	28.5	0.091	49.0	0.015	69.5	0.032	90.0	0.044
1.8	0.912	10.0	0.112	29.0	0.097	49.5	0.025	70.0	0.038		
2.0	0.867	10.2	0.101	29.5	0.098	50.0	0.034	70.5	0.045		
2.2	0.814	10.4	0.087	30.0	0.094	50.5	0.040	71.0	0.052		

Proposal Number	<b>DCA-9056</b>	Revision:	<b>11</b>
Date	<b>17-Oct-05</b>		
Call Letters	<b>KQDF-LP</b>	Channel	<b>25</b>
Location	<b>Albuquerque, NM</b>		
Customer			
Antenna Type	<b>TUC-O5-8/40U-B</b>		

## AZIMUTH PATTERN

Gain **1.20** **(0.79 dB)**  
Calculated / Measured **Calculated**

Frequency **539.00 MHz**  
Drawing # **TUC-O5-5390**





Proposal Number **DCA-9056** Revision: **11**  
Date **17-Oct-05**  
Call Letters **KQDF-LP** Channel **25**  
Location **Albuquerque, NM**  
Customer  
Antenna Type **TUC-O5-8/40U-B**

## TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **TUC-O5-5390**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.935	45	0.940	90	0.862	135	0.892	180	1.000	225	0.892	270	0.862	315	0.940
1	0.935	46	0.929	91	0.866	136	0.900	181	0.999	226	0.885	271	0.859	316	0.951
2	0.933	47	0.918	92	0.871	137	0.907	182	0.997	227	0.878	272	0.859	317	0.961
3	0.929	48	0.907	93	0.878	138	0.914	183	0.992	228	0.872	273	0.860	318	0.971
4	0.925	49	0.896	94	0.887	139	0.920	184	0.987	229	0.867	274	0.863	319	0.979
5	0.920	50	0.887	95	0.896	140	0.925	185	0.979	230	0.863	275	0.867	320	0.987
6	0.914	51	0.878	96	0.907	141	0.929	186	0.971	231	0.860	276	0.872	321	0.992
7	0.907	52	0.871	97	0.918	142	0.933	187	0.961	232	0.859	277	0.878	322	0.997
8	0.900	53	0.866	98	0.929	143	0.935	188	0.951	233	0.859	278	0.885	323	0.999
9	0.892	54	0.862	99	0.940	144	0.935	189	0.940	234	0.862	279	0.892	324	1.000
10	0.885	55	0.859	100	0.951	145	0.935	190	0.929	235	0.866	280	0.900	325	0.999
11	0.878	56	0.859	101	0.961	146	0.933	191	0.918	236	0.871	281	0.907	326	0.997
12	0.872	57	0.860	102	0.971	147	0.929	192	0.907	237	0.878	282	0.914	327	0.992
13	0.867	58	0.863	103	0.979	148	0.925	193	0.896	238	0.887	283	0.920	328	0.987
14	0.863	59	0.867	104	0.987	149	0.920	194	0.887	239	0.896	284	0.925	329	0.979
15	0.860	60	0.872	105	0.992	150	0.914	195	0.878	240	0.907	285	0.929	330	0.971
16	0.859	61	0.878	106	0.997	151	0.907	196	0.871	241	0.918	286	0.933	331	0.961
17	0.859	62	0.885	107	0.999	152	0.900	197	0.866	242	0.929	287	0.935	332	0.951
18	0.862	63	0.892	108	1.000	153	0.892	198	0.862	243	0.940	288	0.935	333	0.940
19	0.866	64	0.900	109	0.999	154	0.885	199	0.859	244	0.951	289	0.935	334	0.929
20	0.871	65	0.907	110	0.997	155	0.878	200	0.859	245	0.961	290	0.933	335	0.918
21	0.878	66	0.914	111	0.992	156	0.872	201	0.860	246	0.971	291	0.929	336	0.907
22	0.887	67	0.920	112	0.987	157	0.867	202	0.863	247	0.979	292	0.925	337	0.896
23	0.896	68	0.925	113	0.979	158	0.863	203	0.867	248	0.987	293	0.920	338	0.887
24	0.907	69	0.929	114	0.971	159	0.860	204	0.872	249	0.992	294	0.914	339	0.878
25	0.918	70	0.933	115	0.961	160	0.859	205	0.878	250	0.997	295	0.907	340	0.871
26	0.929	71	0.935	116	0.951	161	0.859	206	0.885	251	0.999	296	0.900	341	0.866
27	0.940	72	0.935	117	0.940	162	0.862	207	0.892	252	1.000	297	0.892	342	0.862
28	0.951	73	0.935	118	0.929	163	0.866	208	0.900	253	0.999	298	0.885	343	0.859
29	0.961	74	0.933	119	0.918	164	0.871	209	0.907	254	0.997	299	0.878	344	0.859
30	0.971	75	0.929	120	0.907	165	0.878	210	0.914	255	0.992	300	0.872	345	0.860
31	0.979	76	0.925	121	0.896	166	0.887	211	0.920	256	0.987	301	0.867	346	0.863
32	0.987	77	0.920	122	0.887	167	0.896	212	0.925	257	0.979	302	0.863	347	0.867
33	0.992	78	0.914	123	0.878	168	0.907	213	0.929	258	0.971	303	0.860	348	0.872
34	0.997	79	0.907	124	0.871	169	0.918	214	0.933	259	0.961	304	0.859	349	0.878
35	0.999	80	0.900	125	0.866	170	0.929	215	0.935	260	0.951	305	0.859	350	0.885
36	1.000	81	0.892	126	0.862	171	0.940	216	0.935	261	0.940	306	0.862	351	0.892
37	0.999	82	0.885	127	0.859	172	0.951	217	0.935	262	0.929	307	0.866	352	0.900
38	0.997	83	0.878	128	0.859	173	0.961	218	0.933	263	0.918	308	0.871	353	0.907
39	0.992	84	0.872	129	0.860	174	0.971	219	0.929	264	0.907	309	0.878	354	0.914
40	0.987	85	0.867	130	0.863	175	0.979	220	0.925	265	0.896	310	0.887	355	0.920
41	0.979	86	0.863	131	0.867	176	0.987	221	0.920	266	0.887	311	0.896	356	0.925
42	0.971	87	0.860	132	0.872	177	0.992	222	0.914	267	0.878	312	0.907	357	0.929
43	0.961	88	0.859	133	0.878	178	0.997	223	0.907	268	0.871	313	0.918	358	0.933
44	0.951	89	0.859	134	0.885	179	0.999	224	0.900	269	0.866	314	0.929	359	0.935