



Proposal #: **DCA-8393**    Antenna Type: **TFU-32DSC-R CT310SP DC**    Channel: **26 NTSC**  
 Call Letters: **KINT**    Location: **El Paso, TX**    **25 DTV**

Electrical Specifications		Value		Remarks		
		Ratio	dB			
RMS Gain at Main Lobe over Halfwave Dipole	Hpol	22.5	13.52	N26;	D25:	22.5 (13.52 dB)
	Vpol					
RMS Gain at Horizontal over Halfwave Dipole	Hpol	7.3	8.63	N26;	D25:	07.3 (08.63 dB)
	Vpol					
Peak Directional Gain over Halfwave Dipole	Hpol	69.8	18.44	N26;	D25:	69.8 (18.44 dB)
	Vpol					
Peak Directional Gain at Horizontal over Halfwave Dipole	Hpol	22.6	13.54	N26;	D25:	22.6 (13.54 dB)
	Vpol					
Circularity		dB				
Axial Ratio		dB				
Beam Tilt		1.20 deg		N26;	D25:	1.20 deg
Peak TV Power 10% Aural		35 kW	15.44 dBk	+15 kW average DTV power		
Antenna Input: T/L		6 1/8 in	75.0 ohm	Type:	EIA/DCA	
Maximum Antenna Input VSWR		Pix +.5MHz	1.05 : 1	D25: Channel: 1.10 : 1		
		Color	1.08 : 1			
		Aural	1.10 : 1			
		Channel	1.10 : 1			
Patterns	Azimuth Elevation	TFI-CT310SP-26		N26 D25		
		32Q22512N	32Q22512N-90			
		32Q22512D120	32Q22512D120-90			
Mechanical Specifications		Metric	English	Preliminary		
Height with Lightning Protector	H4	m	ft	Side mounted		
Height Less Lightning Protector	H2	19.5 m	64.0 ft			
Height of Center of Radiation	H3	9.8 m	32.0 ft			
Basic Wind Speed	V	112.7 km/h	70 mi/h	TIA/EIA-222-F.		
Force Coeff. x Projected Area	CaAc	12.12 m²	130.5 ft²	Excludes Mounts		
Moment Arm	D1	m	ft			
Force Coeff. X Projected Area	CaAc	m²	ft²			
Moment Arm	D3	m	ft			
Pole Bury Length	D2	m	ft			
Weight	W	0.8 t	1,760 lbs	Excludes Mounts		
Antenna designed in accordance with AISC specifications for design of structural steel for building as prescribed by TIA/EIA-222-F.						

NOTE:

Prepared By : SWB

Approved By : JLS

Original Date : 24-Aug-99

Revision: 2

Rev. Date: 4-Oct-05



NTSC/DTV SIDE MOUNTED ANTENNA  
KINT  
TFU-32DSC-R CT310SP DC  
CH. 26NTSC & CH. 25DTV  
EI Paso, TX

**PRELIMINARY**

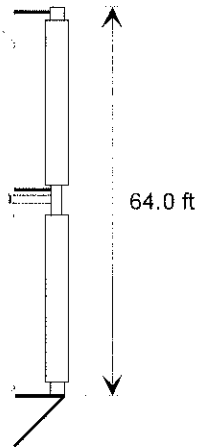
**MECHANICAL DATA**

CaAc = 130.5 ft<sup>2</sup> Excludes Mounts

Weight = 1760 lbs Excludes Mounts

Note: Mechanical Data does  
not include mounting hardware.

EIA-222-F Specification  
(70 mph basic wind speed)



TFU-32DSC-R CT310SP DC

SK051003-4SWB

NOT DRAWN TO SCALE



Proposal Number	<b>DCA-8393</b>	Revision:	<b>2</b>
Date	<b>4-Oct-05</b>		
Call Letters	<b>KINT</b>	Channel	<b>26</b>
Location	<b>El Paso, TX</b>		
Customer			
Antenna Type	<b>TFU-32DSC-R CT310SP DC</b>		

## SYSTEM SUMMARY

### Antenna:

Type:	<b>TFU-32DSC-R CT310SP DC</b>	ERP:	<b>2240 kW</b>	<b>( 33.50 dBk )</b>
Channel:	<b>26</b>	Gain*:	<b>69.8</b>	<b>( 18.44 dB )</b>
Location:	<b>El Paso, TX</b>	Input Power:	<b>32.1 kW</b>	<b>( 15.07 dBk )</b>

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### Transmission Line:

Type:	<b>EIA/DCA</b>	Attenuation:	<b>0.40 dB</b>
Size:	<b>6-1/8 in</b>	Efficiency:	<b>91.3%</b>
Impedance:	<b>75 ohm</b>		
Length:	<b>350 ft</b>		<b>106.7 m</b>

### Combiner Output:

Power Required: **35.2 kW** ( 15.46 dBk )

\* Gain is with respect to half wave dipole.

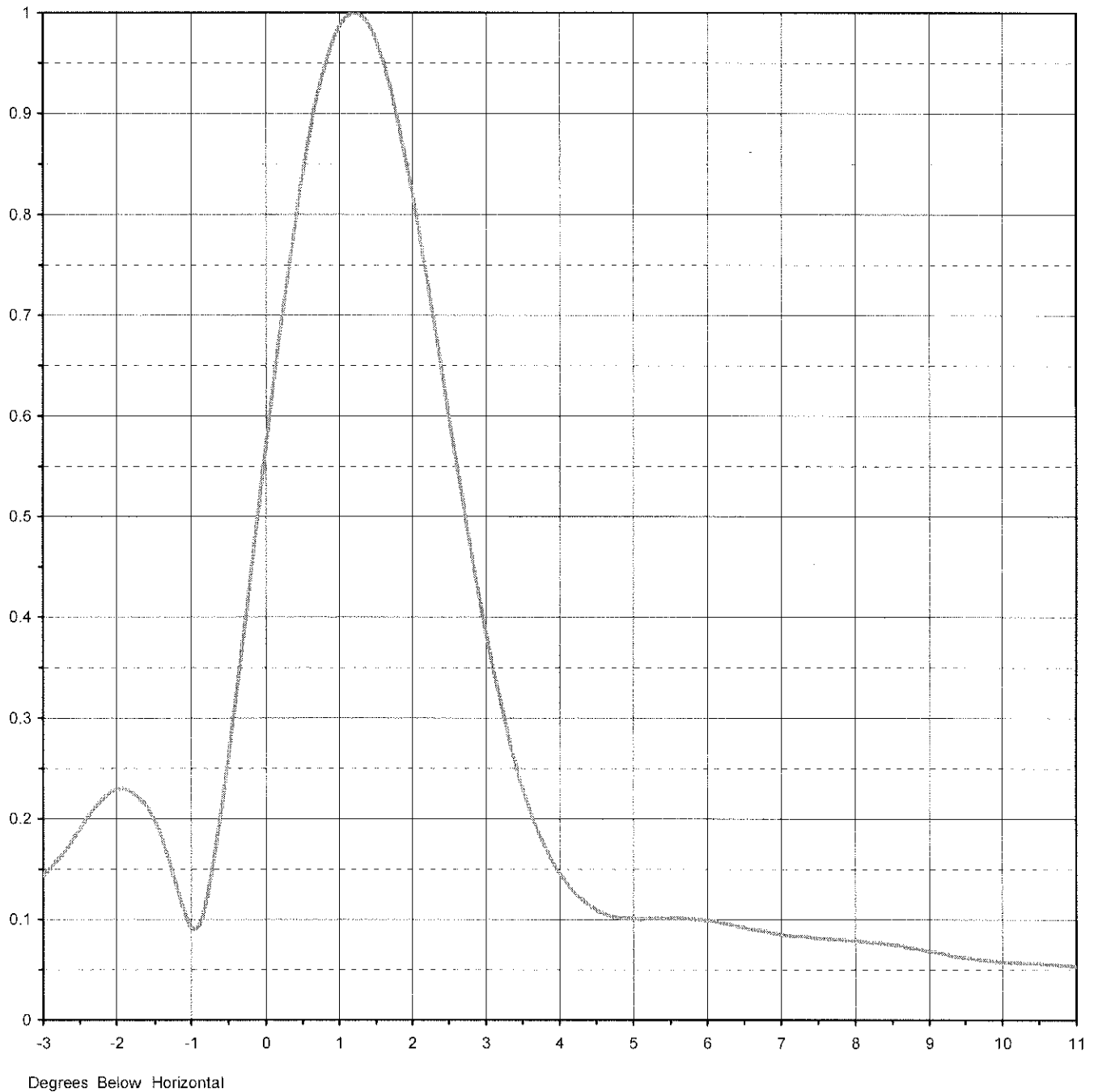


Proposal Number	DCA-8393	Revision:	2
Date	24-Aug-99		
Call Letters	KINT	Channel	26
Location	El Paso, TX		
Customer			
Antenna Type	TFU-32DSC-R CT310SP DC		

## ELEVATION PATTERN

RMS Gain at Main Lobe	22.50 ( 13.52 dB )
RMS Gain at Horizontal	7.30 ( 8.63 dB )
Calculated / Measured	Calculated

Beam Tilt	1.20 deg
Frequency	545.00 MHz
Drawing #	32Q22512N

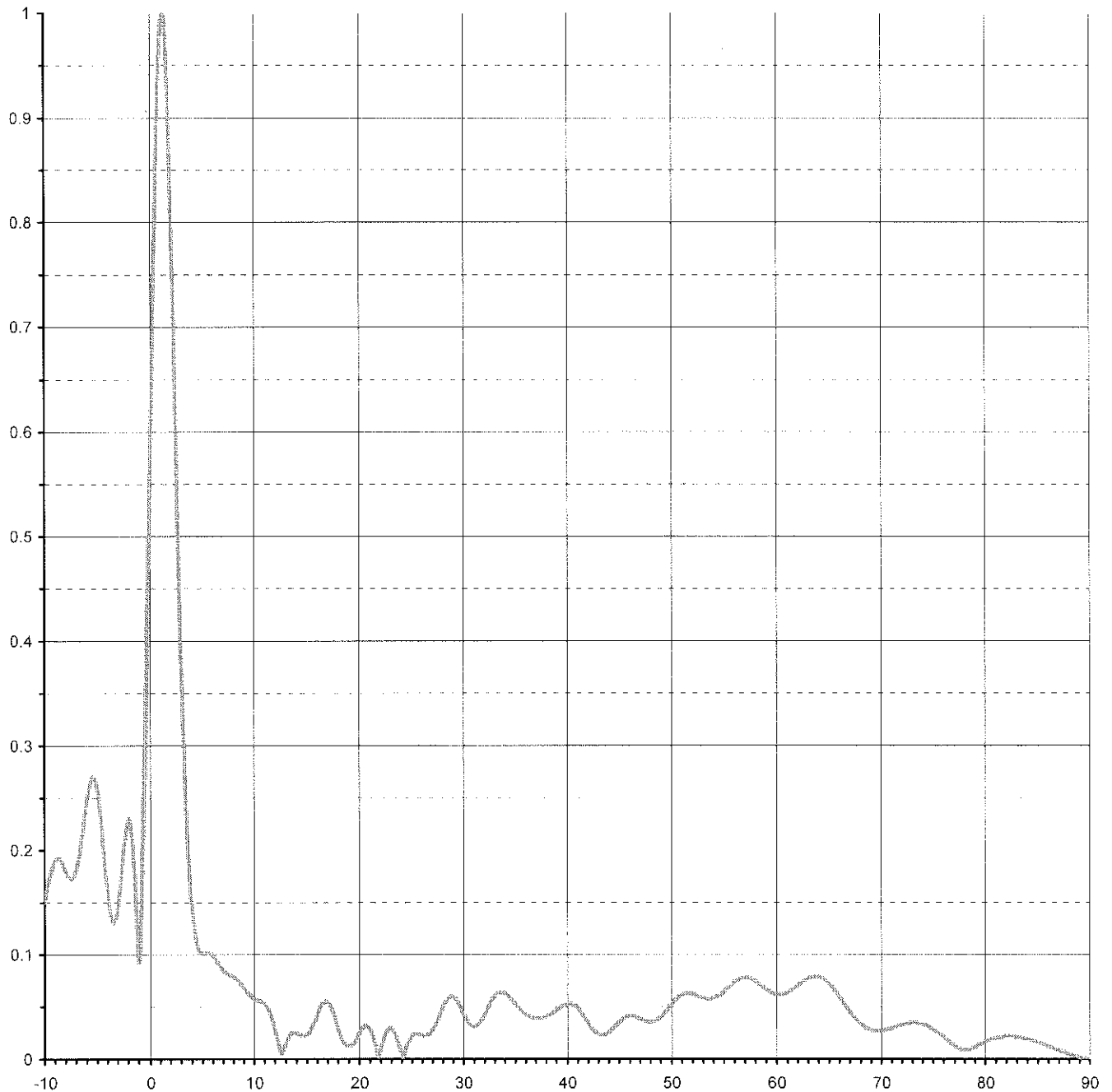




Proposal Number	DCA-8393	Revision:	2
Date	24-Aug-99		
Call Letters	KINT	Channel	26
Location	El Paso, TX		
Customer			
Antenna Type	TFU-32DSC-R CT310SP DC		

## ELEVATION PATTERN

RMS Gain at Main Lobe	22.50 ( 13.52 dB )	Beam Tilt	1.20 deg
RMS Gain at Horizontal	7.30 ( 8.63 dB )	Frequency	545.00 MHz
Calculated / Measured	Calculated	Drawing #	32Q22512N-90



Degrees Below Horizontal



Proposal Number **DCA-8393**      Revision: **2**  
 Date **24-Aug-99**  
 Call Letters **KINT**      Channel **26**  
 Location **El Paso, TX**  
 Customer  
 Antenna Type **TFU-32DSC-R CT310SP DC**

## TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **32Q22512N-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.150	2.4	0.645	10.6	0.056	30.5	0.036	51.0	0.061	71.5	0.031
-9.5	0.174	2.6	0.553	10.8	0.055	31.0	0.031	51.5	0.063	72.0	0.033
-9.0	0.190	2.8	0.465	11.0	0.054	31.5	0.033	52.0	0.063	72.5	0.034
-8.5	0.191	3.0	0.384	11.5	0.046	32.0	0.040	52.5	0.061	73.0	0.035
-8.0	0.180	3.2	0.314	12.0	0.031	32.5	0.050	53.0	0.059	73.5	0.034
-7.5	0.172	3.4	0.255	12.5	0.011	33.0	0.059	53.5	0.057	74.0	0.033
-7.0	0.181	3.6	0.208	13.0	0.011	33.5	0.064	54.0	0.058	74.5	0.031
-6.5	0.210	3.8	0.172	13.5	0.023	34.0	0.064	54.5	0.060	75.0	0.028
-6.0	0.247	4.0	0.146	14.0	0.025	34.5	0.059	55.0	0.064	75.5	0.025
-5.5	0.270	4.2	0.127	14.5	0.023	35.0	0.054	55.5	0.068	76.0	0.021
-5.0	0.258	4.4	0.114	15.0	0.023	35.5	0.048	56.0	0.073	76.5	0.017
-4.5	0.212	4.6	0.106	15.5	0.029	36.0	0.043	56.5	0.076	77.0	0.013
-4.0	0.159	4.8	0.102	16.0	0.040	36.5	0.041	57.0	0.078	77.5	0.010
-3.5	0.131	5.0	0.101	16.5	0.052	37.0	0.039	57.5	0.077	78.0	0.009
-3.0	0.144	5.2	0.101	17.0	0.055	37.5	0.039	58.0	0.075	78.5	0.009
-2.8	0.160	5.4	0.101	17.5	0.048	38.0	0.040	58.5	0.071	79.0	0.012
-2.6	0.180	5.6	0.101	18.0	0.032	38.5	0.043	59.0	0.067	79.5	0.014
-2.4	0.201	5.8	0.100	18.5	0.018	39.0	0.046	59.5	0.064	80.0	0.017
-2.2	0.218	6.0	0.099	19.0	0.013	39.5	0.050	60.0	0.062	80.5	0.019
-2.0	0.229	6.2	0.096	19.5	0.014	40.0	0.052	60.5	0.062	81.0	0.020
-1.8	0.227	6.4	0.093	20.0	0.023	40.5	0.053	61.0	0.063	81.5	0.021
-1.6	0.211	6.6	0.090	20.5	0.031	41.0	0.050	61.5	0.066	82.0	0.022
-1.4	0.179	6.8	0.088	21.0	0.030	41.5	0.044	62.0	0.070	82.5	0.022
-1.2	0.133	7.0	0.085	21.5	0.016	42.0	0.036	62.5	0.073	83.0	0.021
-1.0	0.092	7.2	0.083	22.0	0.005	42.5	0.029	63.0	0.077	83.5	0.020
-0.8	0.117	7.4	0.082	22.5	0.023	43.0	0.024	63.5	0.079	84.0	0.019
-0.6	0.206	7.6	0.081	23.0	0.030	43.5	0.023	64.0	0.079	84.5	0.018
-0.4	0.320	7.8	0.080	23.5	0.023	44.0	0.024	64.5	0.076	85.0	0.016
-0.2	0.444	8.0	0.079	24.0	0.008	44.5	0.029	65.0	0.072	85.5	0.014
0.0	0.569	8.2	0.077	24.5	0.010	45.0	0.034	65.5	0.066	86.0	0.012
0.2	0.687	8.4	0.076	25.0	0.021	45.5	0.039	66.0	0.059	86.5	0.010
0.4	0.793	8.6	0.074	25.5	0.024	46.0	0.041	66.5	0.052	87.0	0.008
0.6	0.881	8.8	0.071	26.0	0.023	46.5	0.041	67.0	0.045	87.5	0.007
0.8	0.946	9.0	0.068	26.5	0.023	47.0	0.039	67.5	0.039	88.0	0.005
1.0	0.986	9.2	0.066	27.0	0.027	47.5	0.037	68.0	0.034	88.5	0.003
1.2	1.000	9.4	0.063	27.5	0.036	48.0	0.035	68.5	0.030	89.0	0.002
1.4	0.988	9.6	0.061	28.0	0.047	48.5	0.036	69.0	0.028	89.5	0.001
1.6	0.951	9.8	0.060	28.5	0.057	49.0	0.040	69.5	0.027	90.0	0.000
1.8	0.894	10.0	0.058	29.0	0.060	49.5	0.045	70.0	0.027		
2.0	0.821	10.2	0.057	29.5	0.055	50.0	0.051	70.5	0.028		
2.2	0.736	10.4	0.056	30.0	0.045	50.5	0.057	71.0	0.030		

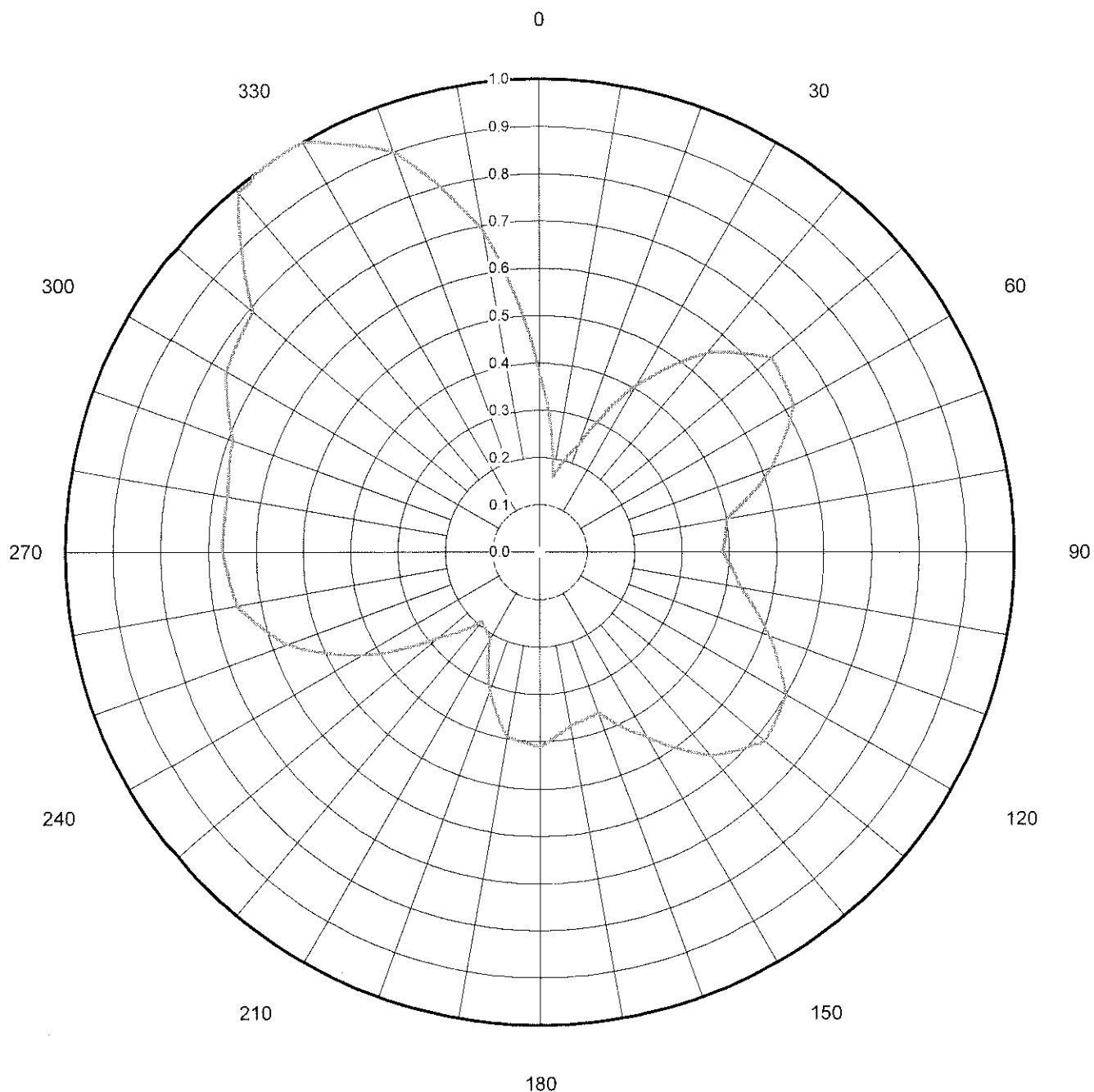


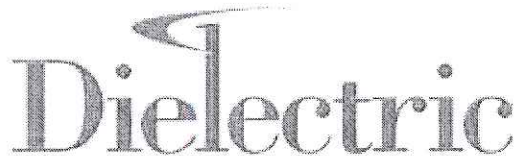
Proposal Number	DCA-8393	Revision:	2
Date	24-Aug-99		
Call Letters	KINT	Channel	26
Location	El Paso, TX		
Customer			
Antenna Type	TFU-32DSC-R CT310SP DC		

### AZIMUTH PATTERN

Gain	3.10	(4.91 dB)
Calculated / Measured		Calculated

Frequency	542.00 MHz
Drawing #	TFI-CT310SP-26





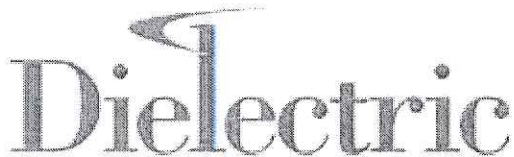
Proposal Number **DCA-8393** Revision: **2**  
 Date **24-Aug-99**  
 Call Letters **KINT** Channel **26**  
 Location **EI Paso, TX**  
 Customer  
 Antenna Type **TFU-32DSC-R CT310SP DC**

## TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **TFI-CT310SP-26**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.380	45	0.595	90	0.385	135	0.590	180	0.410	225	0.235	270	0.670	315	0.890
1	0.358	46	0.604	91	0.389	136	0.584	181	0.408	226	0.244	271	0.670	316	0.910
2	0.336	47	0.613	92	0.394	137	0.578	182	0.407	227	0.253	272	0.670	317	0.930
3	0.314	48	0.622	93	0.398	138	0.572	183	0.405	228	0.262	273	0.670	318	0.950
4	0.292	49	0.631	94	0.403	139	0.566	184	0.404	229	0.271	274	0.670	319	0.970
5	0.270	50	0.640	95	0.407	140	0.560	185	0.403	230	0.280	275	0.670	320	0.990
6	0.248	51	0.638	96	0.412	141	0.549	186	0.401	231	0.296	276	0.670	321	0.991
7	0.226	52	0.636	97	0.417	142	0.538	187	0.400	232	0.311	277	0.670	322	0.992
8	0.204	53	0.634	98	0.421	143	0.527	188	0.398	233	0.326	278	0.670	323	1.000
9	0.182	54	0.632	99	0.426	144	0.516	189	0.396	234	0.342	279	0.670	324	1.000
10	0.160	55	0.630	100	0.430	145	0.505	190	0.395	235	0.357	280	0.670	325	1.000
11	0.168	56	0.628	101	0.438	146	0.494	191	0.387	236	0.373	281	0.672	326	1.000
12	0.176	57	0.626	102	0.447	147	0.483	192	0.378	237	0.389	282	0.674	327	1.000
13	0.184	58	0.624	103	0.456	148	0.472	193	0.370	238	0.404	283	0.676	328	1.000
14	0.192	59	0.622	104	0.464	149	0.461	194	0.361	239	0.419	284	0.678	329	1.000
15	0.200	60	0.620	105	0.472	150	0.450	195	0.352	240	0.435	285	0.680	330	1.000
16	0.208	61	0.610	106	0.481	151	0.441	196	0.344	241	0.449	286	0.682	331	0.990
17	0.216	62	0.600	107	0.489	152	0.432	197	0.336	242	0.462	287	0.684	332	0.980
18	0.224	63	0.590	108	0.498	153	0.423	198	0.327	243	0.475	288	0.686	333	0.970
19	0.232	64	0.580	109	0.507	154	0.414	199	0.319	244	0.489	289	0.688	334	0.960
20	0.240	65	0.570	110	0.515	155	0.405	200	0.310	245	0.502	290	0.690	335	0.950
21	0.257	66	0.560	111	0.524	156	0.396	201	0.300	246	0.516	291	0.697	336	0.940
22	0.273	67	0.550	112	0.532	157	0.387	202	0.290	247	0.530	292	0.705	337	0.930
23	0.289	68	0.540	113	0.540	158	0.378	203	0.280	248	0.543	293	0.712	338	0.920
24	0.306	69	0.530	114	0.549	159	0.369	204	0.270	249	0.557	294	0.720	339	0.910
25	0.322	70	0.520	115	0.558	160	0.360	205	0.260	250	0.570	295	0.728	340	0.900
26	0.339	71	0.508	116	0.566	161	0.361	206	0.250	251	0.578	296	0.735	341	0.879
27	0.356	72	0.496	117	0.575	162	0.362	207	0.240	252	0.586	297	0.743	342	0.858
28	0.372	73	0.484	118	0.583	163	0.363	208	0.230	253	0.594	298	0.750	343	0.837
29	0.389	74	0.472	119	0.591	164	0.364	209	0.220	254	0.602	299	0.757	344	0.816
30	0.405	75	0.460	120	0.600	165	0.365	210	0.210	255	0.610	300	0.765	345	0.795
31	0.419	76	0.448	121	0.602	166	0.366	211	0.208	256	0.618	301	0.767	346	0.774
32	0.434	77	0.436	122	0.604	167	0.367	212	0.206	257	0.626	302	0.770	347	0.753
33	0.449	78	0.424	123	0.606	168	0.368	213	0.204	258	0.634	303	0.772	348	0.732
34	0.463	79	0.412	124	0.608	169	0.369	214	0.202	259	0.642	304	0.775	349	0.711
35	0.477	80	0.400	125	0.610	170	0.370	215	0.200	260	0.650	305	0.777	350	0.690
36	0.492	81	0.398	126	0.612	171	0.374	216	0.198	261	0.652	306	0.780	351	0.659
37	0.507	82	0.397	127	0.614	172	0.378	217	0.196	262	0.654	307	0.783	352	0.628
38	0.521	83	0.396	128	0.616	173	0.382	218	0.194	263	0.656	308	0.785	353	0.597
39	0.535	84	0.394	129	0.618	174	0.386	219	0.192	264	0.658	309	0.788	354	0.566
40	0.550	85	0.393	130	0.620	175	0.390	220	0.190	265	0.660	310	0.790	355	0.535
41	0.559	86	0.391	131	0.614	176	0.394	221	0.199	266	0.662	311	0.810	356	0.504
42	0.568	87	0.389	132	0.608	177	0.398	222	0.208	267	0.664	312	0.830	357	0.473
43	0.577	88	0.388	133	0.602	178	0.402	223	0.217	268	0.666	313	0.850	358	0.442
44	0.586	89	0.387	134	0.596	179	0.406	224	0.226	269	0.668	314	0.870	359	0.411





Proposal Number	DCA-8393	Revision:	2
Date	4-Oct-05		
Call Letters	KINT-DT	Channel	25
Location	El Paso, TX		
Customer			
Antenna Type	TFU-32DSC-R CT310SP DC		

## SYSTEM SUMMARY

### Antenna:

Type:	TFU-32DSC-R CT310SP DC	ERP:	1000 kW ( 30.00 dBk )
Channel:	25	Gain*:	69.8 ( 18.44 dB )
Location:	El Paso, TX	Input Power:	14.3 kW ( 11.56 dBk )

H Pol

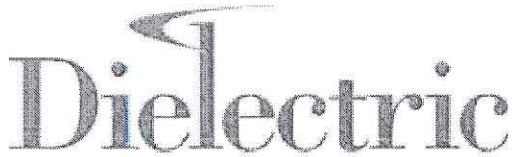
### Transmission Line:

Type:	EIA/DCA	Attenuation:	0.40 dB
Size:	6-1/8 in	Efficiency:	91.3%
Impedance:	75 ohm		
Length:	350 ft		106.7 m

### Combiner Output:

Power Required: 15.7 kW ( 11.96 dBk )

\* Gain is with respect to half wave dipole.

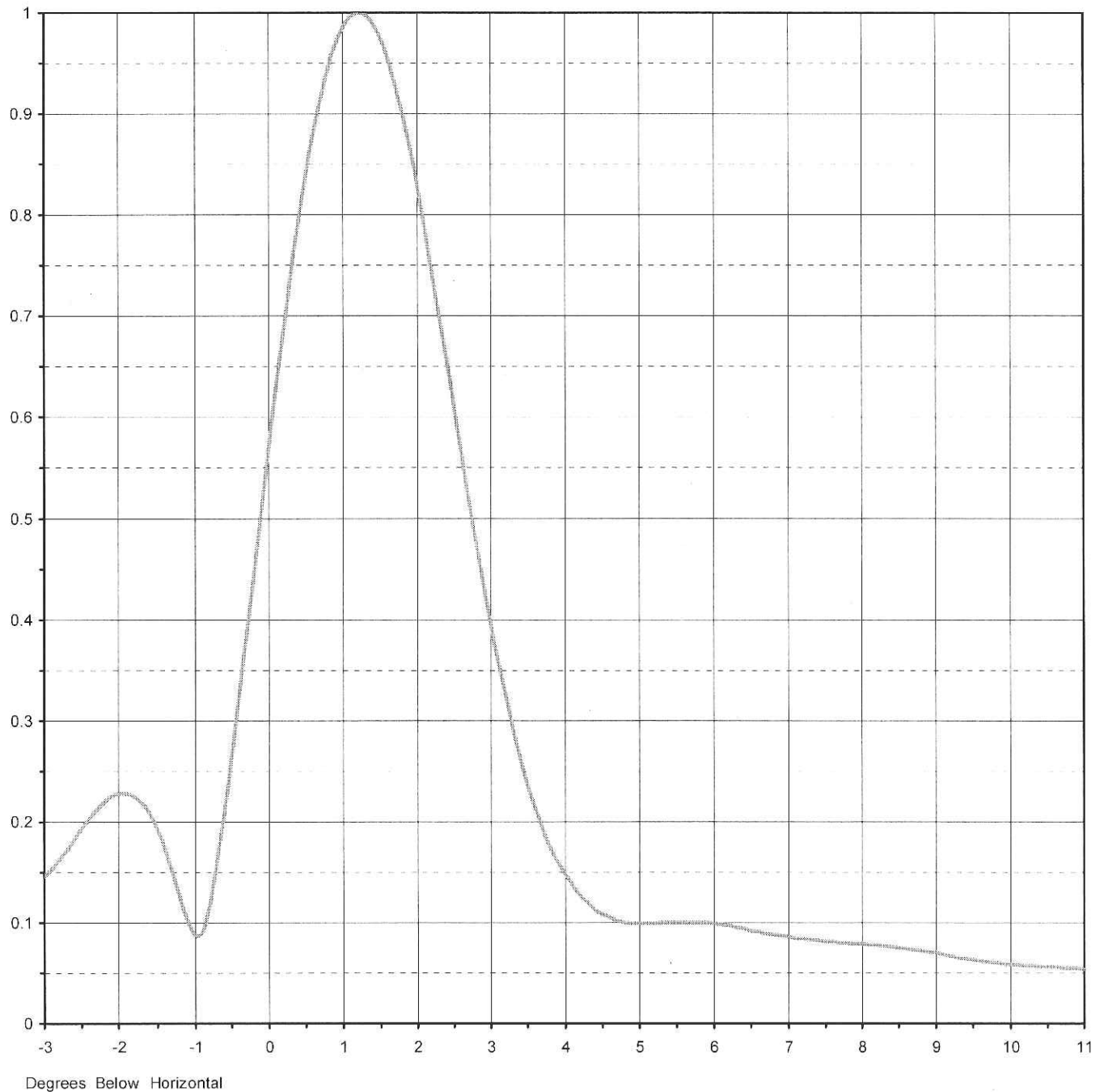


Proposal Number	DCA-8393	Revision:	2
Date	24-Aug-99		
Call Letters	KINT-DT	Channel	25
Location	El Paso, TX		
Customer			
Antenna Type	TFU-32DSC-R CT310SP DC		

## ELEVATION PATTERN

RMS Gain at Main Lobe	22.50 ( 13.52 dB )
RMS Gain at Horizontal	7.30 ( 8.63 dB )
Calculated / Measured	Calculated

Beam Tilt	1.20 deg
Frequency	539.00 MHz
Drawing #	32Q22512D120

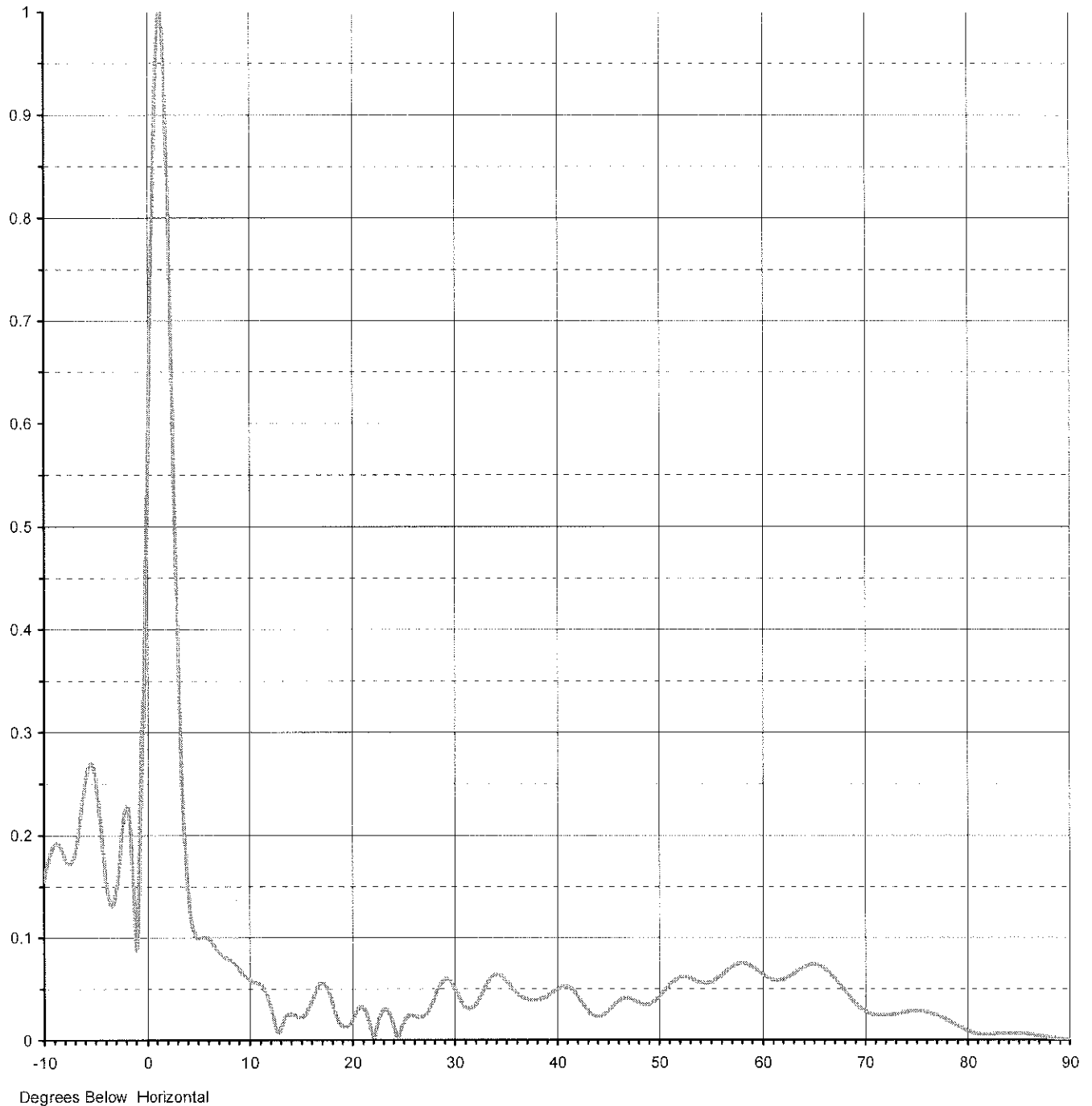




Proposal Number	<b>DCA-8393</b>	Revision:	<b>2</b>
Date	<b>24-Aug-99</b>		
Call Letters	<b>KINT-DT</b>	Channel	<b>25</b>
Location	<b>El Paso, TX</b>		
Customer			
Antenna Type	<b>TFU-32DSC-R CT310SP DC</b>		

## ELEVATION PATTERN

RMS Gain at Main Lobe	<b>22.50 ( 13.52 dB )</b>	Beam Tilt	<b>1.20 deg</b>
RMS Gain at Horizontal	<b>7.30 ( 8.63 dB )</b>	Frequency	<b>539.00 MHz</b>
Calculated / Measured	<b>Calculated</b>	Drawing #	<b>32Q22512D120-90</b>





Proposal Number **DCA-8393**      Revision: **2**  
 Date **24-Aug-99**  
 Call Letters **KINT-DT**      Channel **25**  
 Location **El Paso, TX**  
 Customer  
 Antenna Type **TFU-32DSC-R CT310SP DC**

## TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **32Q22512D120-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.155	2.4	0.657	10.6	0.056	30.5	0.042	51.0	0.052	71.5	0.024
-9.5	0.178	2.6	0.566	10.8	0.055	31.0	0.033	51.5	0.057	72.0	0.024
-9.0	0.191	2.8	0.477	11.0	0.055	31.5	0.030	52.0	0.061	72.5	0.024
-8.5	0.189	3.0	0.396	11.5	0.049	32.0	0.033	52.5	0.061	73.0	0.025
-8.0	0.177	3.2	0.324	12.0	0.036	32.5	0.041	53.0	0.060	73.5	0.026
-7.5	0.172	3.4	0.263	12.5	0.017	33.0	0.052	53.5	0.058	74.0	0.027
-7.0	0.184	3.6	0.214	13.0	0.008	33.5	0.060	54.0	0.056	74.5	0.028
-6.5	0.215	3.8	0.176	13.5	0.021	34.0	0.064	54.5	0.055	75.0	0.028
-6.0	0.251	4.0	0.148	14.0	0.026	34.5	0.063	55.0	0.056	75.5	0.028
-5.5	0.270	4.2	0.127	14.5	0.024	35.0	0.058	55.5	0.058	76.0	0.027
-5.0	0.254	4.4	0.113	15.0	0.022	35.5	0.052	56.0	0.062	76.5	0.026
-4.5	0.206	4.6	0.105	15.5	0.025	36.0	0.047	56.5	0.066	77.0	0.024
-4.0	0.155	4.8	0.100	16.0	0.035	36.5	0.043	57.0	0.071	77.5	0.022
-3.5	0.131	5.0	0.099	16.5	0.048	37.0	0.040	57.5	0.074	78.0	0.019
-3.0	0.146	5.2	0.099	17.0	0.055	37.5	0.039	58.0	0.075	78.5	0.017
-2.8	0.162	5.4	0.100	17.5	0.052	38.0	0.039	58.5	0.074	79.0	0.014
-2.6	0.182	5.6	0.100	18.0	0.039	38.5	0.040	59.0	0.072	79.5	0.011
-2.4	0.203	5.8	0.100	18.5	0.023	39.0	0.042	59.5	0.068	80.0	0.009
-2.2	0.219	6.0	0.099	19.0	0.014	39.5	0.046	60.0	0.065	80.5	0.007
-2.0	0.228	6.2	0.097	19.5	0.013	40.0	0.049	60.5	0.061	81.0	0.006
-1.8	0.225	6.4	0.094	20.0	0.018	40.5	0.052	61.0	0.059	81.5	0.005
-1.6	0.207	6.6	0.091	20.5	0.028	41.0	0.052	61.5	0.058	82.0	0.005
-1.4	0.173	6.8	0.088	21.0	0.032	41.5	0.050	62.0	0.059	82.5	0.005
-1.2	0.126	7.0	0.086	21.5	0.024	42.0	0.044	62.5	0.061	83.0	0.006
-1.0	0.087	7.2	0.084	22.0	0.007	42.5	0.037	63.0	0.064	83.5	0.006
-0.8	0.117	7.4	0.082	22.5	0.014	43.0	0.030	63.5	0.067	84.0	0.006
-0.6	0.209	7.6	0.081	23.0	0.028	43.5	0.025	64.0	0.070	84.5	0.006
-0.4	0.323	7.8	0.080	23.5	0.029	44.0	0.023	64.5	0.073	85.0	0.006
-0.2	0.445	8.0	0.079	24.0	0.017	44.5	0.024	65.0	0.074	85.5	0.006
0.0	0.569	8.2	0.078	24.5	0.002	45.0	0.027	65.5	0.073	86.0	0.005
0.2	0.686	8.4	0.076	25.0	0.015	45.5	0.032	66.0	0.070	86.5	0.005
0.4	0.791	8.6	0.074	25.5	0.023	46.0	0.037	66.5	0.066	87.0	0.004
0.6	0.878	8.8	0.072	26.0	0.024	46.5	0.040	67.0	0.060	87.5	0.003
0.8	0.944	9.0	0.070	26.5	0.022	47.0	0.041	67.5	0.054	88.0	0.002
1.0	0.985	9.2	0.067	27.0	0.023	47.5	0.039	68.0	0.047	88.5	0.002
1.2	1.000	9.4	0.064	27.5	0.029	48.0	0.037	68.5	0.041	89.0	0.001
1.4	0.990	9.6	0.062	28.0	0.039	48.5	0.035	69.0	0.036	89.5	0.000
1.6	0.955	9.8	0.061	28.5	0.051	49.0	0.035	69.5	0.031	90.0	0.000
1.8	0.901	10.0	0.059	29.0	0.059	49.5	0.037	70.0	0.028		
2.0	0.829	10.2	0.058	29.5	0.059	50.0	0.041	70.5	0.026		
2.2	0.746	10.4	0.057	30.0	0.052	50.5	0.046	71.0	0.024		

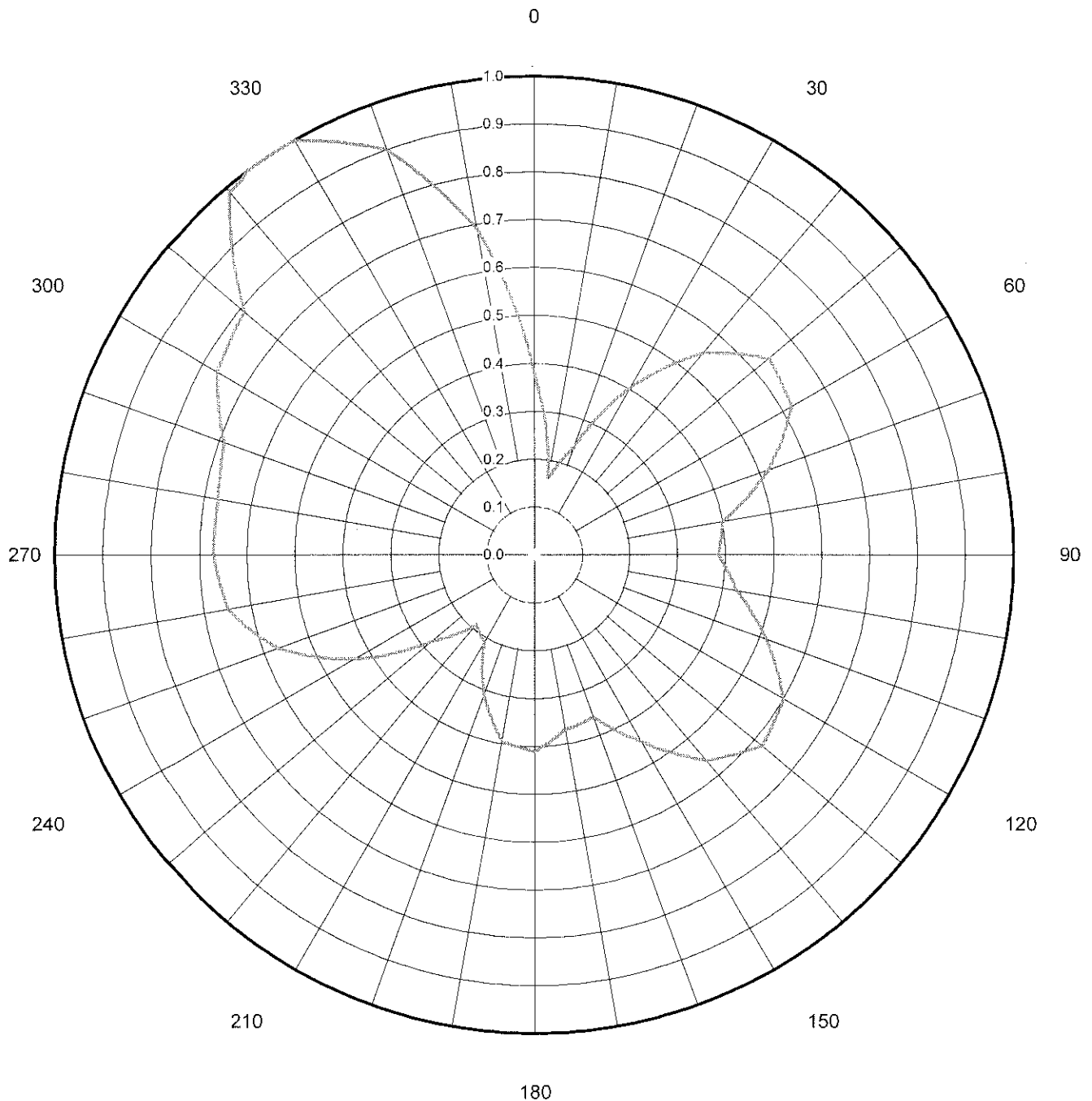


Proposal Number	DCA-8393	Revision:	2
Date	24-Aug-99		
Call Letters	KINT-DT	Channel	25
Location	El Paso, TX		
Customer			
Antenna Type	TFU-32DSC-R CT310SP DC		

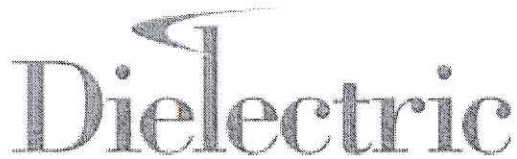
### AZIMUTH PATTERN

Gain	3.10	( 4.91 dB)
Calculated / Measured		Calculated

Frequency	542.00 MHz
Drawing #	TFI-CT310SP-25







Proposal Number **DCA-8393** Revision: **2**  
 Date **24-Aug-99**  
 Call Letters **KINT-DT** Channel **25**  
 Location **El Paso, TX**  
 Customer  
 Antenna Type **TFU-32DSC-R CT310SP DC**

## TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **TFI-CT310SP-25**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.380	45	0.595	90	0.385	135	0.590	180	0.410	225	0.235	270	0.670	315	0.890
1	0.358	46	0.604	91	0.389	136	0.584	181	0.408	226	0.244	271	0.670	316	0.910
2	0.336	47	0.613	92	0.394	137	0.578	182	0.407	227	0.253	272	0.670	317	0.930
3	0.314	48	0.622	93	0.398	138	0.572	183	0.405	228	0.262	273	0.670	318	0.950
4	0.292	49	0.631	94	0.403	139	0.566	184	0.404	229	0.271	274	0.670	319	0.970
5	0.270	50	0.640	95	0.407	140	0.560	185	0.403	230	0.280	275	0.670	320	0.990
6	0.248	51	0.638	96	0.412	141	0.549	186	0.401	231	0.296	276	0.670	321	0.991
7	0.226	52	0.636	97	0.417	142	0.538	187	0.400	232	0.311	277	0.670	322	0.992
8	0.204	53	0.634	98	0.421	143	0.527	188	0.398	233	0.326	278	0.670	323	1.000
9	0.182	54	0.632	99	0.426	144	0.516	189	0.396	234	0.342	279	0.670	324	1.000
10	0.160	55	0.630	100	0.430	145	0.505	190	0.395	235	0.357	280	0.670	325	1.000
11	0.168	56	0.628	101	0.438	146	0.494	191	0.387	236	0.373	281	0.672	326	1.000
12	0.176	57	0.626	102	0.447	147	0.483	192	0.378	237	0.389	282	0.674	327	1.000
13	0.184	58	0.624	103	0.456	148	0.472	193	0.370	238	0.404	283	0.676	328	1.000
14	0.192	59	0.622	104	0.464	149	0.461	194	0.361	239	0.419	284	0.678	329	1.000
15	0.200	60	0.620	105	0.472	150	0.450	195	0.352	240	0.435	285	0.680	330	1.000
16	0.208	61	0.610	106	0.481	151	0.441	196	0.344	241	0.449	286	0.682	331	0.990
17	0.216	62	0.600	107	0.489	152	0.432	197	0.336	242	0.462	287	0.684	332	0.980
18	0.224	63	0.590	108	0.498	153	0.423	198	0.327	243	0.475	288	0.686	333	0.970
19	0.232	64	0.580	109	0.507	154	0.414	199	0.319	244	0.489	289	0.688	334	0.960
20	0.240	65	0.570	110	0.515	155	0.405	200	0.310	245	0.502	290	0.690	335	0.950
21	0.257	66	0.560	111	0.524	156	0.396	201	0.300	246	0.516	291	0.697	336	0.940
22	0.273	67	0.550	112	0.532	157	0.387	202	0.290	247	0.530	292	0.705	337	0.930
23	0.289	68	0.540	113	0.540	158	0.378	203	0.280	248	0.543	293	0.712	338	0.920
24	0.306	69	0.530	114	0.549	159	0.369	204	0.270	249	0.557	294	0.720	339	0.910
25	0.322	70	0.520	115	0.558	160	0.360	205	0.260	250	0.570	295	0.728	340	0.900
26	0.339	71	0.508	116	0.566	161	0.361	206	0.250	251	0.578	296	0.735	341	0.879
27	0.356	72	0.496	117	0.575	162	0.362	207	0.240	252	0.586	297	0.743	342	0.858
28	0.372	73	0.484	118	0.583	163	0.363	208	0.230	253	0.594	298	0.750	343	0.837
29	0.389	74	0.472	119	0.591	164	0.364	209	0.220	254	0.602	299	0.757	344	0.816
30	0.405	75	0.460	120	0.600	165	0.365	210	0.210	255	0.610	300	0.765	345	0.795
31	0.419	76	0.448	121	0.602	166	0.366	211	0.208	256	0.618	301	0.767	346	0.774
32	0.434	77	0.436	122	0.604	167	0.367	212	0.206	257	0.626	302	0.770	347	0.753
33	0.449	78	0.424	123	0.606	168	0.368	213	0.204	258	0.634	303	0.772	348	0.732
34	0.463	79	0.412	124	0.608	169	0.369	214	0.202	259	0.642	304	0.775	349	0.711
35	0.477	80	0.400	125	0.610	170	0.370	215	0.200	260	0.650	305	0.777	350	0.690
36	0.492	81	0.398	126	0.612	171	0.374	216	0.198	261	0.652	306	0.780	351	0.659
37	0.507	82	0.397	127	0.614	172	0.378	217	0.196	262	0.654	307	0.783	352	0.628
38	0.521	83	0.396	128	0.616	173	0.382	218	0.194	263	0.656	308	0.785	353	0.597
39	0.535	84	0.394	129	0.618	174	0.386	219	0.192	264	0.658	309	0.788	354	0.566
40	0.550	85	0.393	130	0.620	175	0.390	220	0.190	265	0.660	310	0.790	355	0.535
41	0.559	86	0.391	131	0.614	176	0.394	221	0.199	266	0.662	311	0.810	356	0.504
42	0.568	87	0.389	132	0.608	177	0.398	222	0.208	267	0.664	312	0.830	357	0.473
43	0.577	88	0.388	133	0.602	178	0.402	223	0.217	268	0.666	313	0.850	358	0.442
44	0.586	89	0.387	134	0.596	179	0.406	224	0.226	269	0.668	314	0.870	359	0.411