



Proposal #: **DCA-10875-2** Antenna Type: **TFU-24WB-R WC**
Call Letters: **KRIV** Location: **Houston, TX**

Channel: **26 NTSC**[illegible]

NOTE: **ERP 2,500 kw for analog and 500 kW digital**

Prepared By : SWB

Original Date : 7-Mar-05

Approved By :

Rev. Date: 20-Jul-05

JLS

SWB



Proposal Number
Date
Call Letters
Location
Customer
Antenna Type

DCA-10875
20-Jul-05
KRIV
Houston, TX
TFU-24WB-R WC

Revision: **2**
Channel **26**

SYSTEM SUMMARY

Antenna:

Type:	TFU-24WB-R WC	ERP:	2500 kW	H Pol	(33.98 dBk)
Channel:	26	Peak Gain*:	49.5		(16.95 dB)
Location:	Houston, TX	Input Power:	50.5 kW		(17.03 dBk)

Transmission Line:

Type:	EIA/DCA	Attenuation:	1.54 dB
Size:	9-3/16 in	Efficiency:	70.2%
Impedance:	75 ohm		
Length:	2,090 ft		637.0 m

Transmitter:

Power Required: **71.9 kW (18.56 dBk)**

* Gain is with respect to half wave dipole.

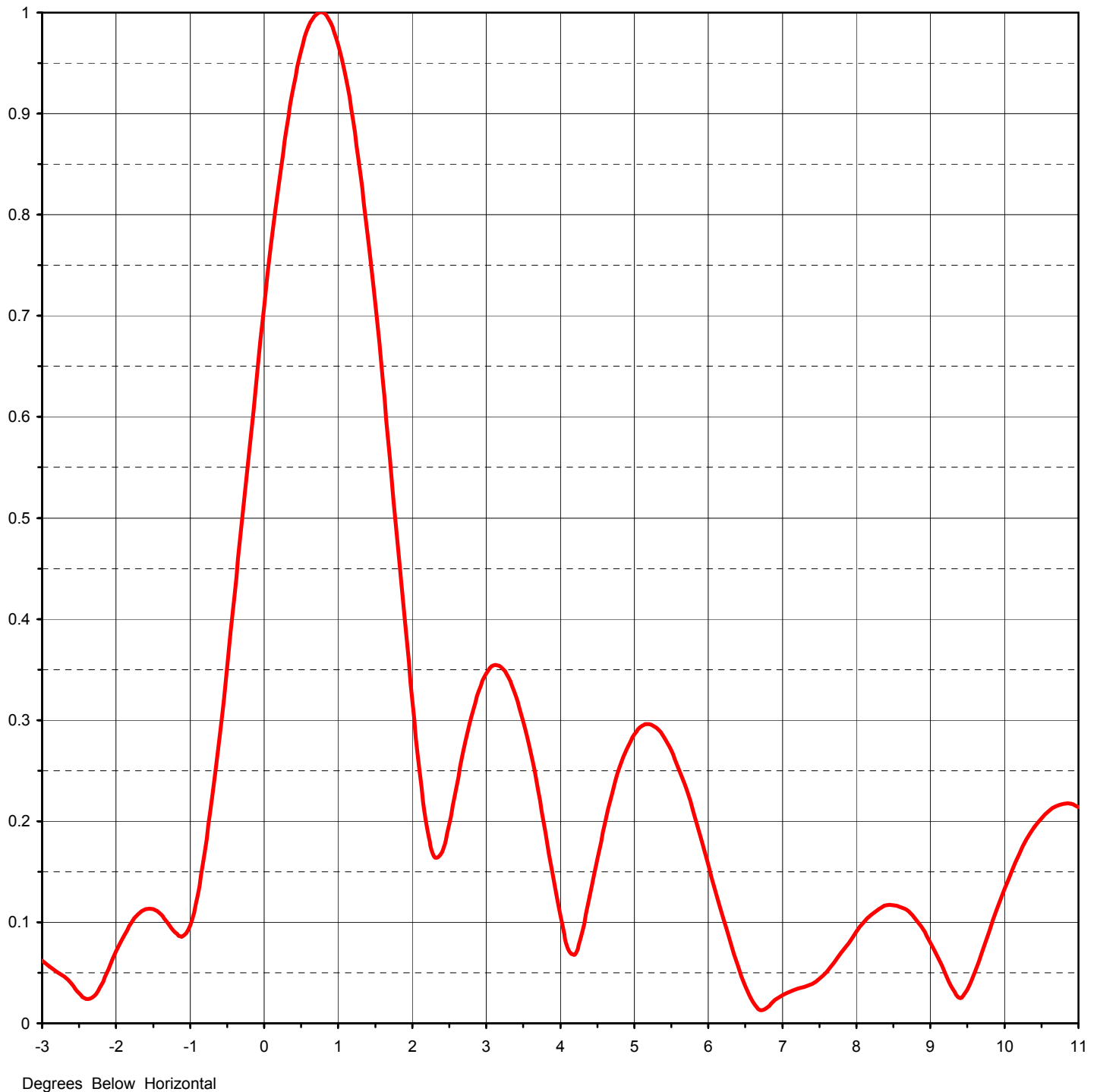


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ELEVATION PATTERN

RMS Gain at Main Lobe	21.54 (13.33 dB)
RMS Gain at Horizontal	10.80 (10.33 dB)
Calculated / Measured	Calculated

Beam Tilt	0.75 deg
Frequency	545.00 MHz
Drawing #	24H215075

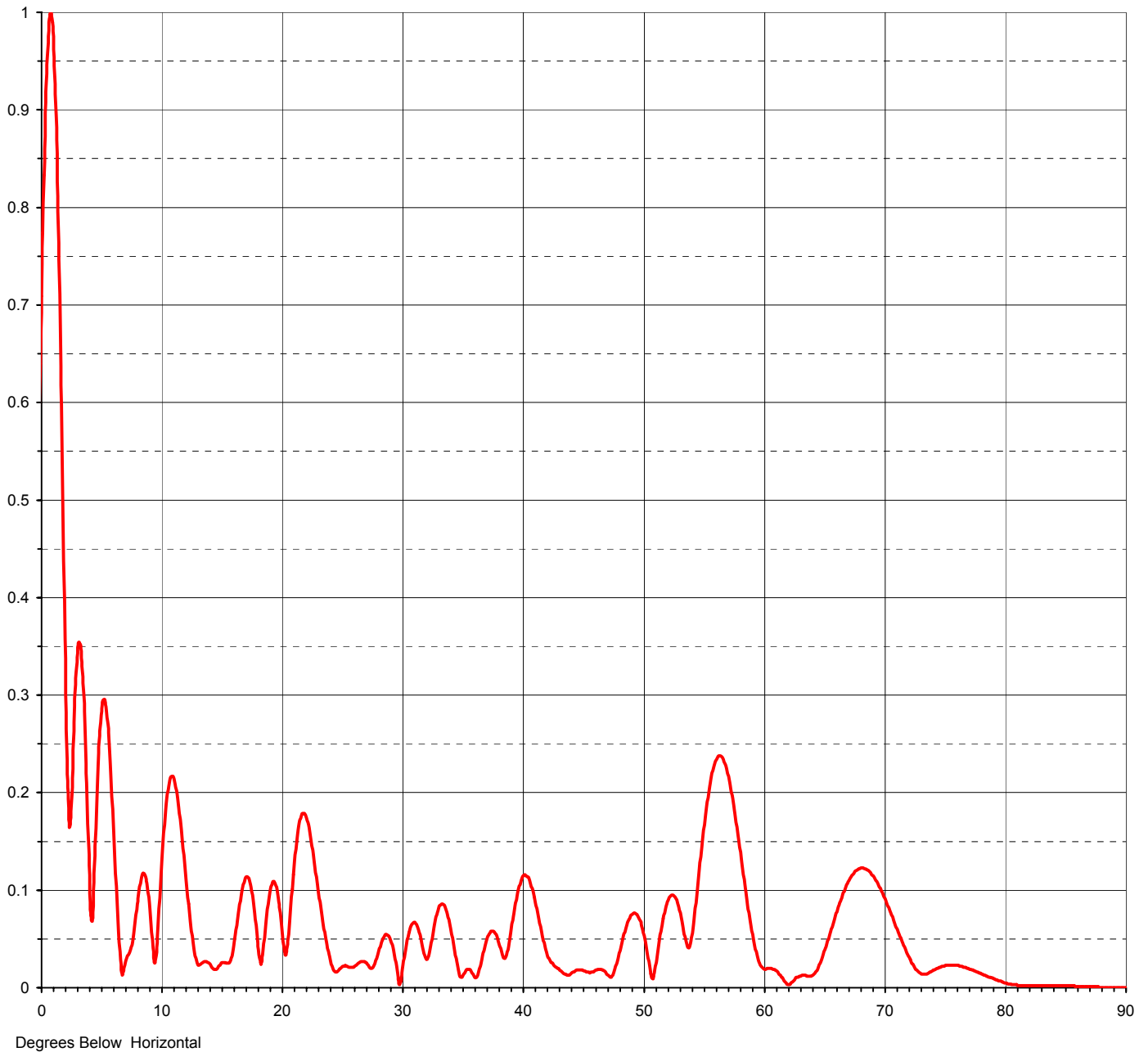




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ELEVATION PATTERN

RMS Gain at Main Lobe	21.54 (13.33 dB)	Beam Tilt	0.75 deg
RMS Gain at Horizontal	10.80 (10.33 dB)	Frequency	545.00 MHz
Calculated / Measured	Calculated	Drawing #	24H215075-90





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TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **24H215075-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.159	2.4	0.169	10.6	0.203	30.5	0.052	51.0	0.019	71.5	0.045
-9.5	0.239	2.6	0.234	10.8	0.215	31.0	0.067	51.5	0.058	72.0	0.031
-9.0	0.232	2.8	0.304	11.0	0.217	31.5	0.054	52.0	0.086	72.5	0.020
-8.5	0.113	3.0	0.346	11.5	0.184	32.0	0.030	52.5	0.095	73.0	0.014
-8.0	0.093	3.2	0.352	12.0	0.123	32.5	0.050	53.0	0.082	73.5	0.014
-7.5	0.249	3.4	0.324	12.5	0.063	33.0	0.079	53.5	0.052	74.0	0.018
-7.0	0.271	3.6	0.267	13.0	0.026	33.5	0.085	54.0	0.048	74.5	0.021
-6.5	0.142	3.8	0.189	13.5	0.026	34.0	0.064	54.5	0.098	75.0	0.023
-6.0	0.259	4.0	0.106	14.0	0.025	34.5	0.030	55.0	0.156	75.5	0.023
-5.5	0.546	4.2	0.068	14.5	0.019	35.0	0.011	55.5	0.203	76.0	0.023
-5.0	0.704	4.4	0.126	15.0	0.025	35.5	0.019	56.0	0.231	76.5	0.021
-4.5	0.654	4.6	0.197	15.5	0.025	36.0	0.012	56.5	0.237	77.0	0.019
-4.0	0.438	4.8	0.253	16.0	0.039	36.5	0.022	57.0	0.222	77.5	0.017
-3.5	0.190	5.0	0.286	16.5	0.081	37.0	0.047	57.5	0.190	78.0	0.014
-3.0	0.062	5.2	0.296	17.0	0.112	37.5	0.058	58.0	0.148	78.5	0.012
-2.8	0.051	5.4	0.283	17.5	0.103	38.0	0.048	58.5	0.102	79.0	0.009
-2.6	0.039	5.6	0.252	18.0	0.052	38.5	0.030	59.0	0.062	79.5	0.007
-2.4	0.024	5.8	0.208	18.5	0.039	39.0	0.053	59.5	0.032	80.0	0.005
-2.2	0.038	6.0	0.157	19.0	0.094	39.5	0.090	60.0	0.020	80.5	0.003
-2.0	0.071	6.2	0.104	19.5	0.107	40.0	0.113	60.5	0.020	81.0	0.002
-1.8	0.099	6.4	0.057	20.0	0.066	40.5	0.113	61.0	0.018	81.5	0.002
-1.6	0.113	6.6	0.021	20.5	0.042	41.0	0.093	61.5	0.011	82.0	0.002
-1.4	0.108	6.8	0.016	21.0	0.116	41.5	0.063	62.0	0.003	82.5	0.002
-1.2	0.090	7.0	0.028	21.5	0.169	42.0	0.037	62.5	0.007	83.0	0.002
-1.0	0.097	7.2	0.034	22.0	0.177	42.5	0.025	63.0	0.012	83.5	0.002
-0.8	0.170	7.4	0.039	22.5	0.149	43.0	0.020	63.5	0.013	84.0	0.002
-0.6	0.286	7.6	0.051	23.0	0.105	43.5	0.014	64.0	0.012	84.5	0.002
-0.4	0.423	7.8	0.070	23.5	0.064	44.0	0.014	64.5	0.022	85.0	0.002
-0.2	0.569	8.0	0.091	24.0	0.032	44.5	0.018	65.0	0.039	85.5	0.002
0.0	0.709	8.2	0.107	24.5	0.016	45.0	0.018	65.5	0.058	86.0	0.001
0.2	0.833	8.4	0.117	25.0	0.021	45.5	0.016	66.0	0.078	86.5	0.001
0.4	0.928	8.6	0.115	25.5	0.022	46.0	0.017	66.5	0.096	87.0	0.001
0.6	0.986	8.8	0.103	26.0	0.021	46.5	0.019	67.0	0.110	87.5	0.001
0.8	1.000	9.0	0.080	26.5	0.026	47.0	0.014	67.5	0.119	88.0	0.000
1.0	0.969	9.2	0.049	27.0	0.026	47.5	0.013	68.0	0.123	88.5	0.000
1.2	0.894	9.4	0.025	27.5	0.020	48.0	0.033	68.5	0.121	89.0	0.000
1.4	0.780	9.6	0.051	28.0	0.034	48.5	0.057	69.0	0.115	89.5	0.000
1.6	0.637	9.8	0.071	28.5	0.052	49.0	0.074	69.5	0.104	90.0	0.000
1.8	0.478	10.0	0.113	29.0	0.051	49.5	0.075	70.0	0.091		
2.0	0.319	10.2	0.151	29.5	0.026	50.0	0.059	70.5	0.076		
2.2	0.194	10.4	0.182	30.0	0.015	50.5	0.027	71.0	0.060		

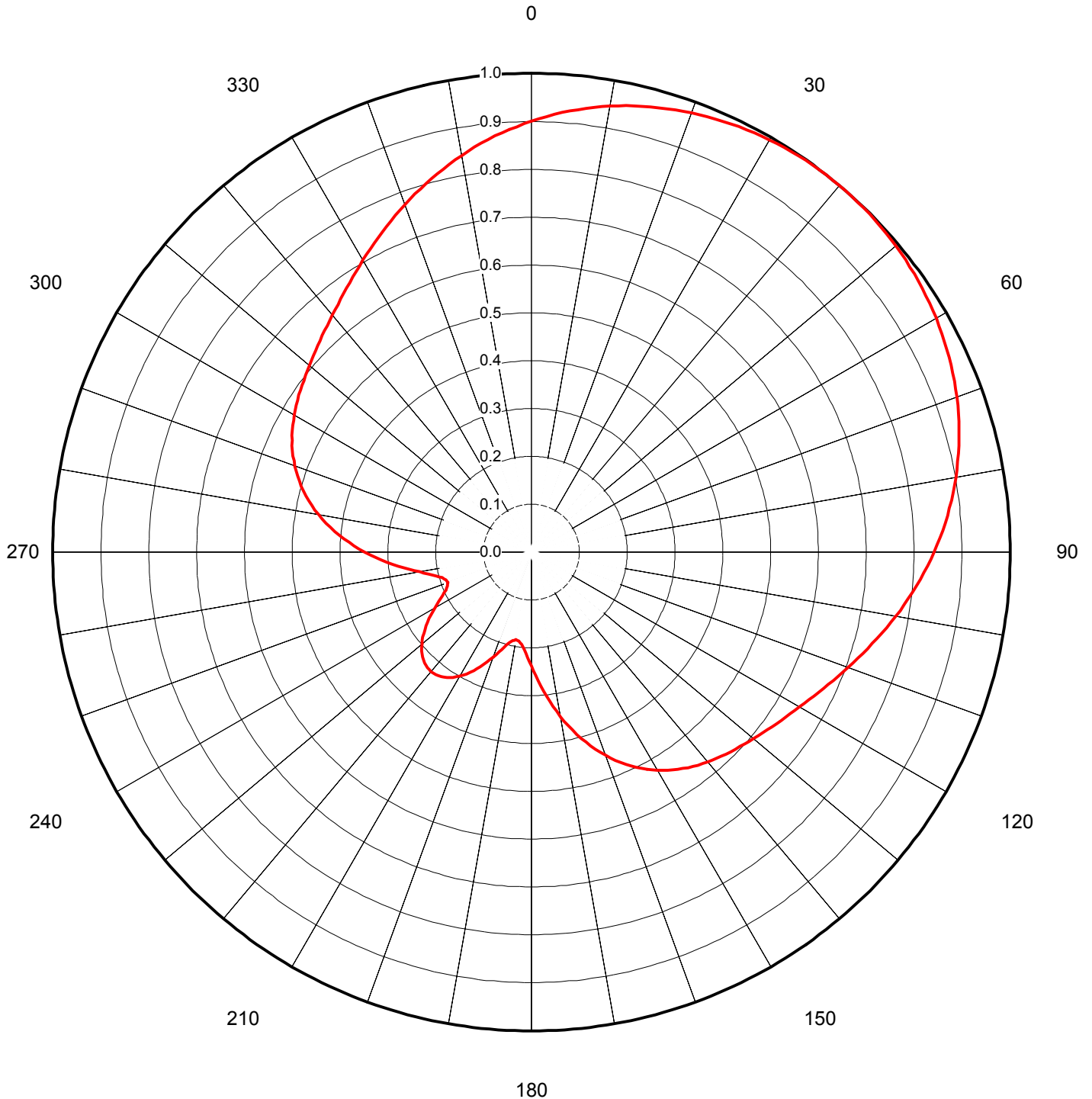


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AZIMUTH PATTERN

Gain	2.30	(3.62 dB)
Calculated / Measured	Calculated	

Frequency	545.00 MHz
Drawing #	CH 26 C230





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TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **CH 26 C230**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.900	45	0.999	90	0.841	135	0.589	180	0.238	225	0.319	270	0.348	315	0.625
1	0.905	46	0.998	91	0.834	136	0.586	181	0.229	226	0.316	271	0.359	316	0.629
2	0.910	47	0.997	92	0.828	137	0.582	182	0.220	227	0.312	272	0.371	317	0.633
3	0.915	48	0.996	93	0.821	138	0.579	183	0.212	228	0.309	273	0.382	318	0.637
4	0.920	49	0.995	94	0.814	139	0.575	184	0.205	229	0.304	274	0.392	319	0.642
5	0.925	50	0.994	95	0.807	140	0.572	185	0.199	230	0.299	275	0.403	320	0.647
6	0.929	51	0.993	96	0.801	141	0.568	186	0.194	231	0.294	276	0.413	321	0.652
7	0.933	52	0.992	97	0.794	142	0.564	187	0.191	232	0.288	277	0.423	322	0.657
8	0.938	53	0.990	98	0.787	143	0.560	188	0.187	233	0.282	278	0.433	323	0.662
9	0.942	54	0.989	99	0.780	144	0.556	189	0.186	234	0.276	279	0.443	324	0.668
10	0.945	55	0.987	100	0.772	145	0.552	190	0.186	235	0.269	280	0.452	325	0.673
11	0.949	56	0.985	101	0.765	146	0.547	191	0.187	236	0.262	281	0.461	326	0.679
12	0.953	57	0.983	102	0.758	147	0.542	192	0.189	237	0.255	282	0.469	327	0.685
13	0.956	58	0.981	103	0.751	148	0.537	193	0.192	238	0.248	283	0.477	328	0.691
14	0.960	59	0.979	104	0.744	149	0.531	194	0.196	239	0.240	284	0.485	329	0.698
15	0.963	60	0.976	105	0.738	150	0.526	195	0.201	240	0.233	285	0.493	330	0.704
16	0.966	61	0.974	106	0.731	151	0.520	196	0.206	241	0.226	286	0.500	331	0.711
17	0.969	62	0.971	107	0.724	152	0.514	197	0.213	242	0.219	287	0.507	332	0.717
18	0.971	63	0.969	108	0.717	153	0.507	198	0.219	243	0.213	288	0.514	333	0.724
19	0.974	64	0.966	109	0.711	154	0.500	199	0.226	244	0.206	289	0.520	334	0.731
20	0.976	65	0.963	110	0.704	155	0.493	200	0.233	245	0.201	290	0.526	335	0.738
21	0.979	66	0.960	111	0.698	156	0.485	201	0.240	246	0.196	291	0.531	336	0.744
22	0.981	67	0.956	112	0.691	157	0.477	202	0.248	247	0.192	292	0.537	337	0.751
23	0.983	68	0.953	113	0.685	158	0.469	203	0.255	248	0.189	293	0.542	338	0.758
24	0.985	69	0.949	114	0.679	159	0.461	204	0.262	249	0.187	294	0.547	339	0.765
25	0.987	70	0.945	115	0.673	160	0.452	205	0.269	250	0.186	295	0.552	340	0.772
26	0.989	71	0.942	116	0.668	161	0.443	206	0.276	251	0.186	296	0.556	341	0.780
27	0.990	72	0.938	117	0.662	162	0.433	207	0.282	252	0.187	297	0.560	342	0.787
28	0.992	73	0.933	118	0.657	163	0.423	208	0.288	253	0.191	298	0.564	343	0.794
29	0.993	74	0.929	119	0.652	164	0.413	209	0.294	254	0.194	299	0.568	344	0.801
30	0.994	75	0.925	120	0.647	165	0.403	210	0.299	255	0.199	300	0.572	345	0.807
31	0.995	76	0.920	121	0.642	166	0.392	211	0.304	256	0.205	301	0.575	346	0.814
32	0.996	77	0.915	122	0.637	167	0.382	212	0.309	257	0.212	302	0.579	347	0.821
33	0.997	78	0.910	123	0.633	168	0.371	213	0.312	258	0.220	303	0.582	348	0.828
34	0.998	79	0.905	124	0.629	169	0.359	214	0.316	259	0.229	304	0.586	349	0.834
35	0.999	80	0.900	125	0.625	170	0.348	215	0.319	260	0.238	305	0.589	350	0.841
36	0.999	81	0.895	126	0.620	171	0.337	216	0.321	261	0.248	306	0.592	351	0.847
37	0.999	82	0.889	127	0.617	172	0.325	217	0.323	262	0.258	307	0.596	352	0.854
38	1.000	83	0.884	128	0.613	173	0.314	218	0.325	263	0.269	308	0.599	353	0.860
39	1.000	84	0.878	129	0.609	174	0.302	219	0.325	264	0.280	309	0.602	354	0.866
40	1.000	85	0.872	130	0.606	175	0.291	220	0.326	265	0.291	310	0.606	355	0.872
41	1.000	86	0.866	131	0.602	176	0.280	221	0.325	266	0.302	311	0.609	356	0.878
42	1.000	87	0.860	132	0.599	177	0.269	222	0.325	267	0.314	312	0.613	357	0.884
43	0.999	88	0.854	133	0.596	178	0.258	223	0.323	268	0.325	313	0.617	358	0.889
44	0.999	89	0.847	134	0.592	179	0.248	224	0.321	269	0.337	314	0.620	359	0.895