

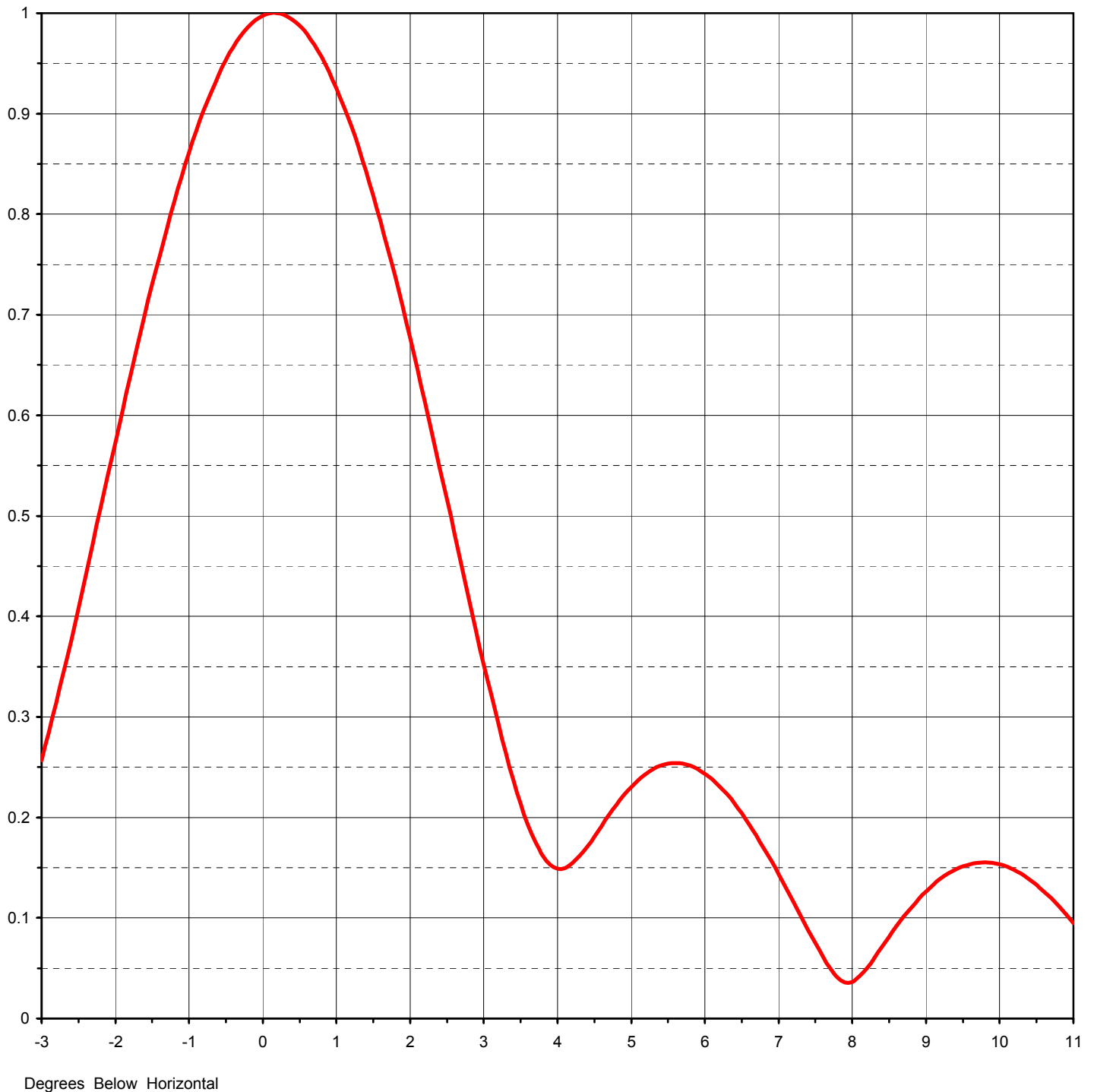


Proposal Number	DCA-10049	Revision:	3
Date	21-Feb-03		
Call Letters	WYES-DT	Channel	11
Location	New Orleans, LA		
Customer	WYES		
Antenna Type	TF-12HT-DC P230		

ELEVATION PATTERN

RMS Gain at Main Lobe	12.00 (10.79 dB)
RMS Gain at Horizontal	11.90 (10.76 dB)
Calculated / Measured	Calculated

Beam Tilt	0.00 deg
Frequency	201.00 MHz
Drawing #	12S120000

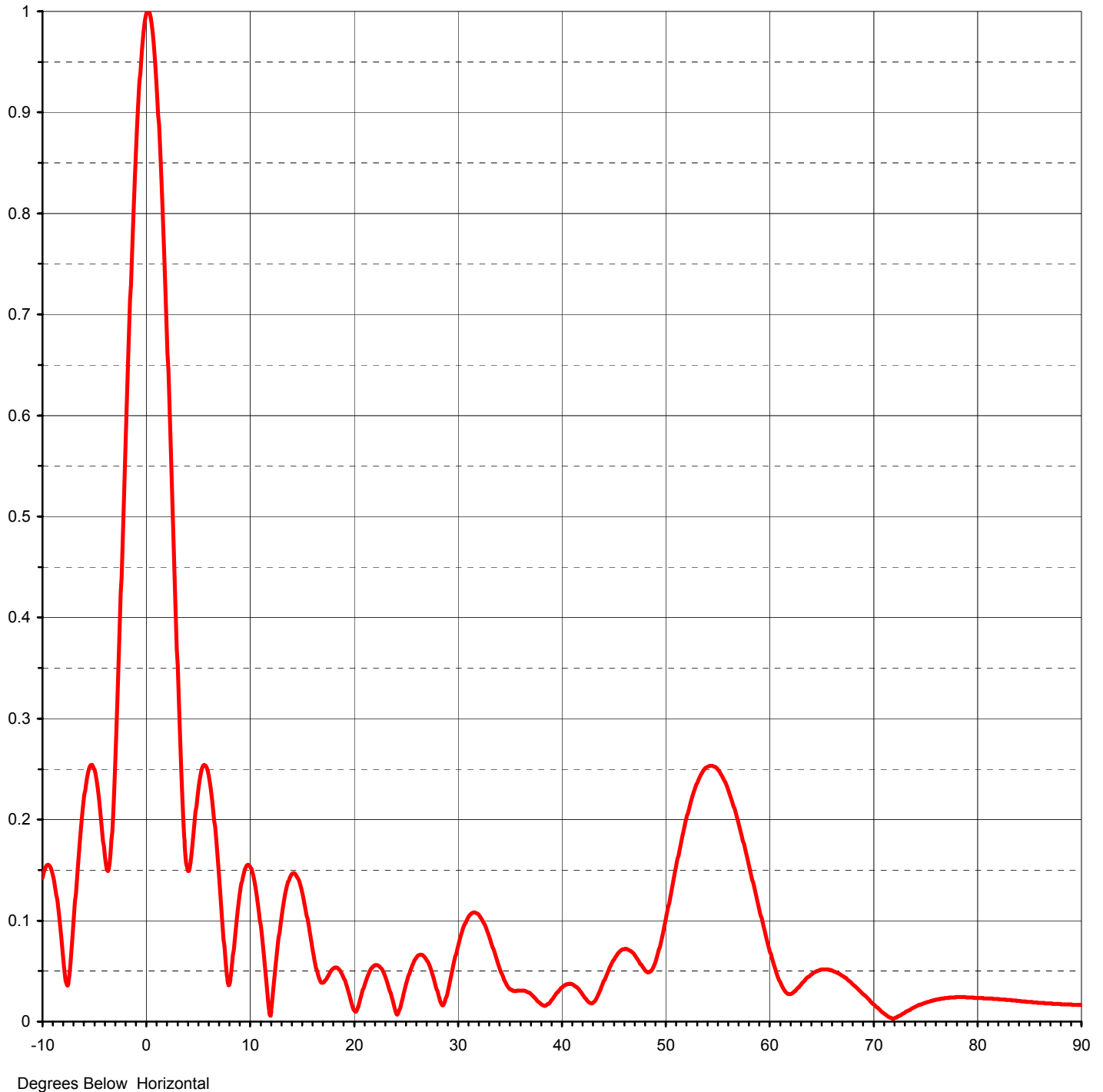




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Date	21-Feb-03		
Call Letters	WYES-DT	Channel	11
Location	New Orleans, LA		
Customer	WYES		
Antenna Type	TF-12HT-DC P230		

ELEVATION PATTERN

RMS Gain at Main Lobe	12.00 (10.79 dB)	Beam Tilt	0.00 deg
RMS Gain at Horizontal	11.90 (10.76 dB)	Frequency	201.00 MHz
Calculated / Measured	Calculated	Drawing #	12S120000-90





Proposal Number **DCA-10049** Revision: **3**
 Date **21-Feb-03**
 Call Letters **WYES-DT** Channel **11**
 Location **New Orleans, LA**
 Customer **WYES**
 Antenna Type **TF-12HT-DC P230**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **12S120000-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.142	2.4	0.549	10.6	0.133	30.5	0.089	51.0	0.149	71.5	0.004
-9.5	0.155	2.6	0.482	10.8	0.119	31.0	0.102	51.5	0.174	72.0	0.003
-9.0	0.145	2.8	0.417	11.0	0.104	31.5	0.108	52.0	0.198	72.5	0.006
-8.5	0.113	3.0	0.352	11.5	0.056	32.0	0.107	52.5	0.217	73.0	0.009
-8.0	0.064	3.2	0.292	12.0	0.006	32.5	0.099	53.0	0.233	73.5	0.012
-7.5	0.039	3.4	0.238	12.5	0.051	33.0	0.087	53.5	0.245	74.0	0.014
-7.0	0.098	3.6	0.193	13.0	0.096	33.5	0.072	54.0	0.252	74.5	0.017
-6.5	0.166	3.8	0.162	13.5	0.128	34.0	0.056	54.5	0.253	75.0	0.019
-6.0	0.221	4.0	0.149	14.0	0.145	34.5	0.042	55.0	0.251	75.5	0.020
-5.5	0.251	4.2	0.154	14.5	0.145	35.0	0.033	55.5	0.243	76.0	0.022
-5.0	0.249	4.4	0.171	15.0	0.132	35.5	0.030	56.0	0.232	76.5	0.023
-4.5	0.215	4.6	0.192	15.5	0.107	36.0	0.031	56.5	0.217	77.0	0.023
-4.0	0.164	4.8	0.213	16.0	0.078	36.5	0.031	57.0	0.200	77.5	0.024
-3.5	0.159	5.0	0.230	16.5	0.051	37.0	0.028	57.5	0.180	78.0	0.024
-3.0	0.257	5.2	0.243	17.0	0.038	37.5	0.023	58.0	0.159	78.5	0.024
-2.8	0.314	5.4	0.252	17.5	0.044	38.0	0.018	58.5	0.137	79.0	0.024
-2.6	0.376	5.6	0.254	18.0	0.052	38.5	0.016	59.0	0.115	79.5	0.024
-2.4	0.441	5.8	0.251	18.5	0.053	39.0	0.020	59.5	0.094	80.0	0.023
-2.2	0.507	6.0	0.243	19.0	0.046	39.5	0.027	60.0	0.074	80.5	0.023
-2.0	0.573	6.2	0.231	19.5	0.031	40.0	0.033	60.5	0.056	81.0	0.023
-1.8	0.638	6.4	0.214	20.0	0.014	40.5	0.037	61.0	0.041	81.5	0.023
-1.6	0.700	6.6	0.193	20.5	0.015	41.0	0.037	61.5	0.031	82.0	0.022
-1.4	0.759	6.8	0.169	21.0	0.033	41.5	0.034	62.0	0.027	82.5	0.022
-1.2	0.813	7.0	0.143	21.5	0.047	42.0	0.028	62.5	0.030	83.0	0.021
-1.0	0.861	7.2	0.116	22.0	0.055	42.5	0.021	63.0	0.035	83.5	0.021
-0.8	0.903	7.4	0.088	22.5	0.055	43.0	0.018	63.5	0.041	84.0	0.020
-0.6	0.939	7.6	0.062	23.0	0.047	43.5	0.025	64.0	0.046	84.5	0.020
-0.4	0.966	7.8	0.041	23.5	0.032	44.0	0.036	64.5	0.050	85.0	0.020
-0.2	0.986	8.0	0.036	24.0	0.013	44.5	0.049	65.0	0.051	85.5	0.019
0.0	0.998	8.2	0.051	24.5	0.013	45.0	0.060	65.5	0.052	86.0	0.019
0.2	1.000	8.4	0.071	25.0	0.033	45.5	0.068	66.0	0.051	86.5	0.018
0.4	0.994	8.6	0.092	25.5	0.050	46.0	0.072	66.5	0.048	87.0	0.018
0.6	0.979	8.8	0.110	26.0	0.062	46.5	0.071	67.0	0.045	87.5	0.018
0.8	0.956	9.0	0.126	26.5	0.066	47.0	0.067	67.5	0.041	88.0	0.017
1.0	0.926	9.2	0.139	27.0	0.062	47.5	0.060	68.0	0.037	88.5	0.017
1.2	0.888	9.4	0.148	27.5	0.051	48.0	0.052	68.5	0.032	89.0	0.017
1.4	0.843	9.6	0.154	28.0	0.034	48.5	0.049	69.0	0.027	89.5	0.017
1.6	0.793	9.8	0.155	28.5	0.017	49.0	0.056	69.5	0.022	90.0	0.016
1.8	0.737	10.0	0.155	29.0	0.025	49.5	0.073	70.0	0.017		
2.0	0.677	10.2	0.151	29.5	0.048	50.0	0.096	70.5	0.013		
2.2	0.614	10.4	0.144	30.0	0.071	50.5	0.122	71.0	0.008		

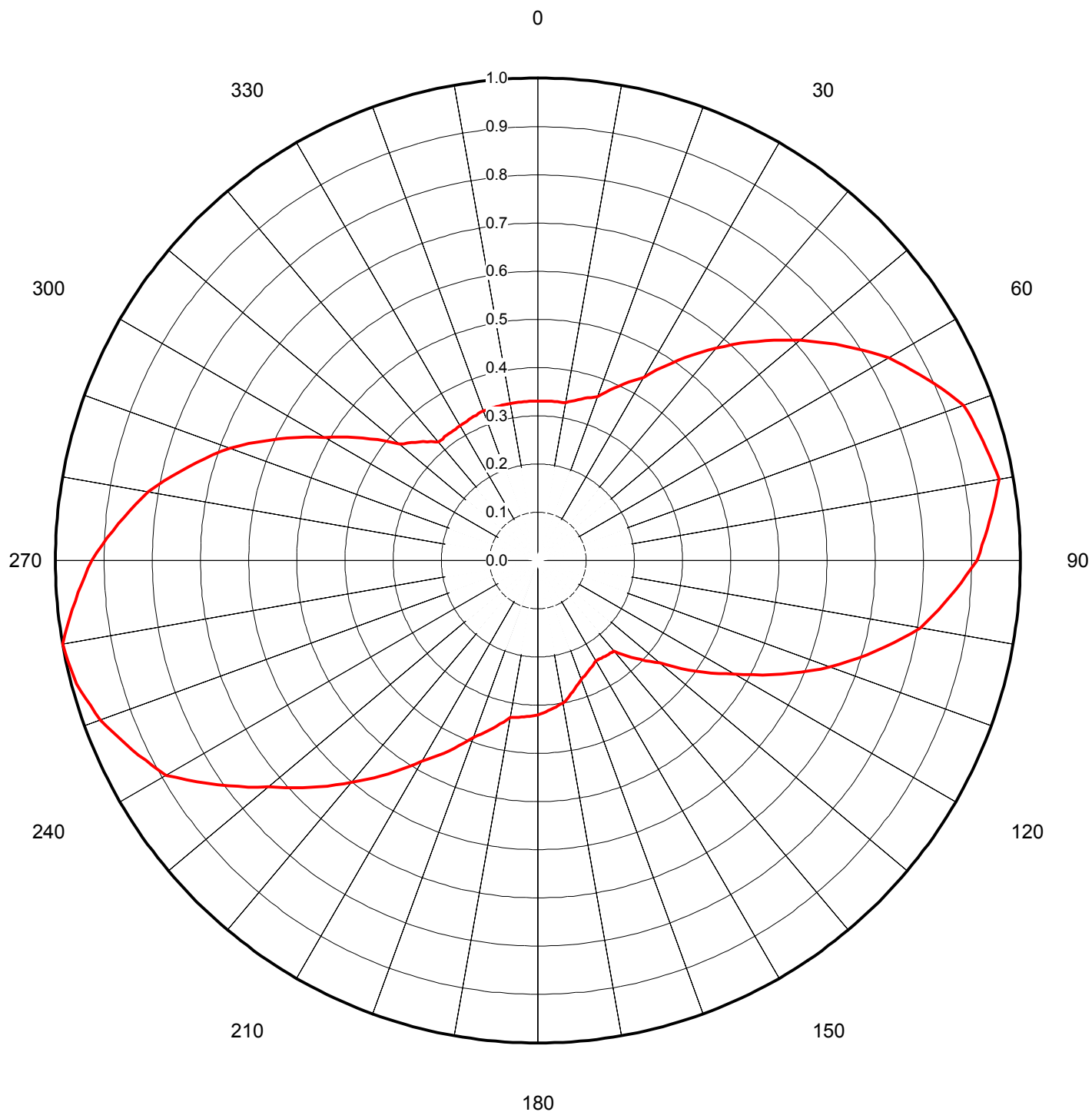


Proposal Number	DCA-10049	Revision:	3
Date	21-Feb-03		
Call Letters	WYES-DT	Channel	11
Location	New Orleans, LA		
Customer	WYES		
Antenna Type	TF-12HT-DC P230		

AZIMUTH PATTERN

Gain	2.69	(4.30 dB)
Calculated / Measured	Calculated	

Frequency	201.00 MHz
Drawing #	TF-P4-2010





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Call Letters	WYES-DT	Channel	11
Location	New Orleans, LA		
Customer	WYES		
Antenna Type	TF-12HT-DC P230		

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **TF-P4-2010**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.330	45	0.642	90	0.910	135	0.287	180	0.320	225	0.665	270	0.925	315	0.347
1	0.330	46	0.656	91	0.900	136	0.279	181	0.321	226	0.678	271	0.914	316	0.342
2	0.330	47	0.669	92	0.889	137	0.271	182	0.322	227	0.691	272	0.904	317	0.336
3	0.331	48	0.683	93	0.878	138	0.262	183	0.323	228	0.704	273	0.893	318	0.331
4	0.331	49	0.697	94	0.868	139	0.254	184	0.324	229	0.717	274	0.883	319	0.326
5	0.331	50	0.710	95	0.858	140	0.245	185	0.325	230	0.730	275	0.873	320	0.320
6	0.331	51	0.723	96	0.847	141	0.244	186	0.326	231	0.746	276	0.862	321	0.320
7	0.331	52	0.736	97	0.836	142	0.244	187	0.327	232	0.762	277	0.851	322	0.320
8	0.332	53	0.749	98	0.826	143	0.243	188	0.328	233	0.778	278	0.841	323	0.321
9	0.332	54	0.762	99	0.816	144	0.243	189	0.329	234	0.794	279	0.831	324	0.321
10	0.332	55	0.775	100	0.805	145	0.243	190	0.330	235	0.810	280	0.820	325	0.321
11	0.335	56	0.788	101	0.789	146	0.242	191	0.336	236	0.826	281	0.806	326	0.321
12	0.338	57	0.801	102	0.773	147	0.242	192	0.342	237	0.842	282	0.792	327	0.321
13	0.341	58	0.814	103	0.757	148	0.241	193	0.348	238	0.858	283	0.778	328	0.322
14	0.344	59	0.827	104	0.741	149	0.241	194	0.354	239	0.874	284	0.764	329	0.322
15	0.347	60	0.840	105	0.725	150	0.240	195	0.360	240	0.890	285	0.750	330	0.322
16	0.349	61	0.850	106	0.709	151	0.242	196	0.366	241	0.897	286	0.736	331	0.323
17	0.352	62	0.860	107	0.693	152	0.244	197	0.372	242	0.905	287	0.722	332	0.324
18	0.355	63	0.870	108	0.677	153	0.247	198	0.378	243	0.913	288	0.708	333	0.324
19	0.358	64	0.880	109	0.661	154	0.249	199	0.384	244	0.920	289	0.694	334	0.325
20	0.361	65	0.890	110	0.645	155	0.251	200	0.390	245	0.928	290	0.680	335	0.326
21	0.369	66	0.900	111	0.627	156	0.253	201	0.399	246	0.935	291	0.663	336	0.327
22	0.376	67	0.910	112	0.610	157	0.255	202	0.408	247	0.942	292	0.646	337	0.328
23	0.384	68	0.920	113	0.592	158	0.258	203	0.417	248	0.950	293	0.629	338	0.328
24	0.392	69	0.930	114	0.575	159	0.260	204	0.426	249	0.957	294	0.612	339	0.329
25	0.400	70	0.940	115	0.558	160	0.262	205	0.435	250	0.965	295	0.595	340	0.330
26	0.407	71	0.943	116	0.540	161	0.266	206	0.444	251	0.970	296	0.578	341	0.330
27	0.415	72	0.946	117	0.522	162	0.270	207	0.453	252	0.975	297	0.561	342	0.330
28	0.423	73	0.949	118	0.505	163	0.273	208	0.462	253	0.980	298	0.544	343	0.330
29	0.430	74	0.952	119	0.488	164	0.277	209	0.471	254	0.985	299	0.527	344	0.330
30	0.438	75	0.955	120	0.470	165	0.281	210	0.480	255	0.990	300	0.510	345	0.330
31	0.452	76	0.958	121	0.456	166	0.285	211	0.492	256	0.992	301	0.496	346	0.330
32	0.465	77	0.961	122	0.442	167	0.289	212	0.504	257	0.994	302	0.483	347	0.330
33	0.479	78	0.964	123	0.428	168	0.292	213	0.516	258	0.996	303	0.470	348	0.330
34	0.493	79	0.967	124	0.414	169	0.296	214	0.528	259	0.998	304	0.456	349	0.330
35	0.507	80	0.970	125	0.400	170	0.300	215	0.540	260	1.000	305	0.442	350	0.330
36	0.520	81	0.964	126	0.386	171	0.302	216	0.552	261	0.993	306	0.429	351	0.330
37	0.534	82	0.958	127	0.372	172	0.304	217	0.564	262	0.985	307	0.415	352	0.330
38	0.548	83	0.952	128	0.358	173	0.306	218	0.576	263	0.978	308	0.402	353	0.330
39	0.561	84	0.946	129	0.344	174	0.308	219	0.588	264	0.970	309	0.389	354	0.330
40	0.575	85	0.940	130	0.330	175	0.310	220	0.600	265	0.962	310	0.375	355	0.330
41	0.589	86	0.934	131	0.322	176	0.312	221	0.613	266	0.955	311	0.370	356	0.330
42	0.602	87	0.928	132	0.313	177	0.314	222	0.626	267	0.947	312	0.364	357	0.330
43	0.615	88	0.922	133	0.305	178	0.316	223	0.639	268	0.940	313	0.359	358	0.330
44	0.629	89	0.916	134	0.296	179	0.318	224	0.652	269	0.933	314	0.353	359	0.330