

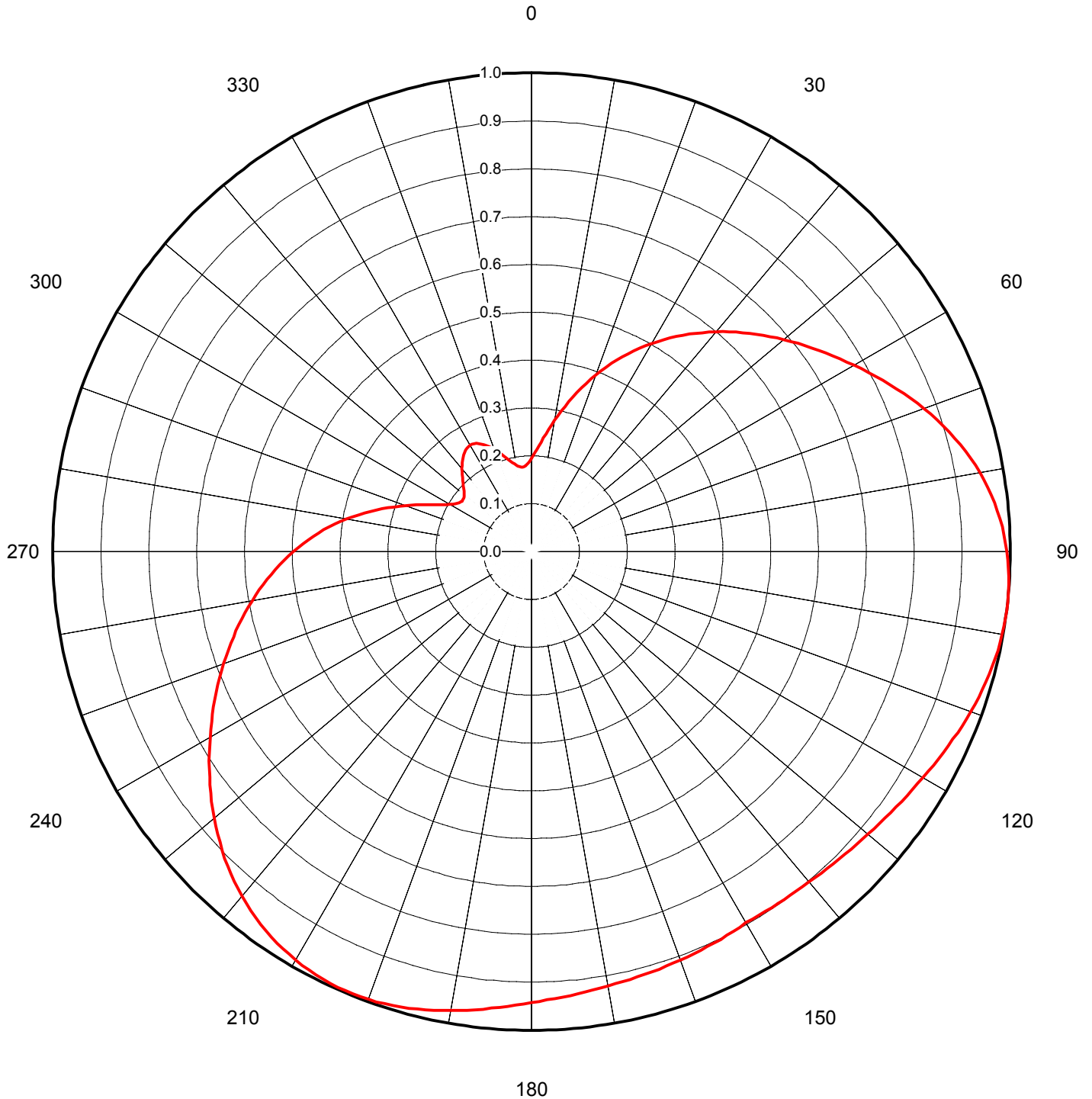


Proposal Number	DCA-9648	Revision:	1
Date	22-Feb-02		
Call Letters	WPSG-DT	Channel	32
Location	Philadelphia, PA		
Customer			
Antenna Type	TFU-26GTH-R 1C190SP		

AZIMUTH PATTERN

Gain	1.90	(2.79 dB)
Calculated / Measured	Calculated	

Frequency	581.00 MHz
Drawing #	TFU-1C190SP-32





Proposal Number **DCA-9648** Revision: **1**
Date **22-Feb-02**
Call Letters **WPSG-DT** Channel **32**
Location **Philadelphia, PA**
Customer
Antenna Type **TFU-26GTH-R 1C190SP**

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **TFU-1C190SP-32**

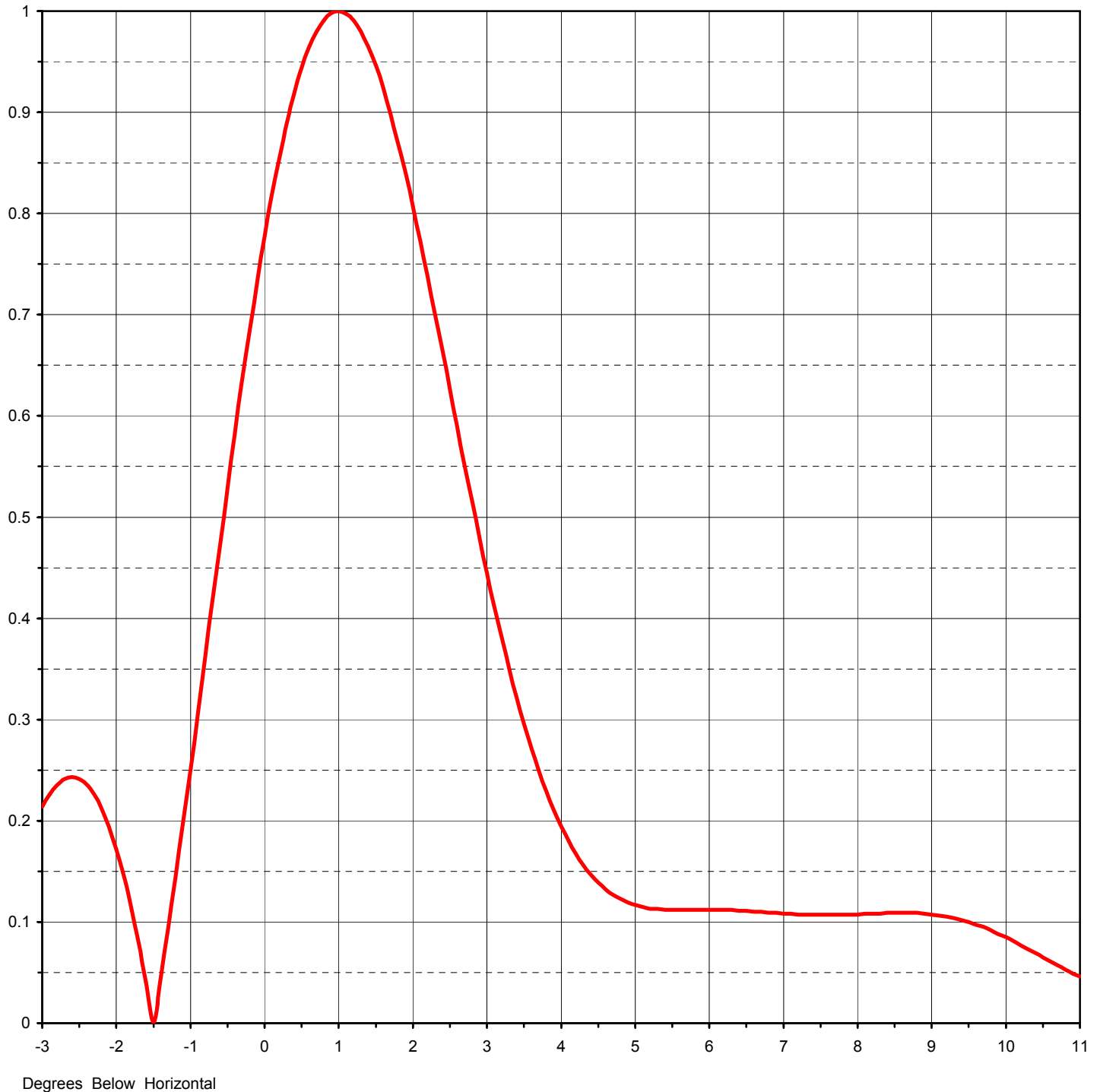
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.194	45	0.644	90	0.993	135	0.908	180	0.942	225	0.906	270	0.497	315	0.202
1	0.200	46	0.653	91	0.995	136	0.907	181	0.945	226	0.898	271	0.487	316	0.207
2	0.206	47	0.662	92	0.996	137	0.905	182	0.948	227	0.890	272	0.477	317	0.211
3	0.214	48	0.671	93	0.998	138	0.904	183	0.951	228	0.882	273	0.467	318	0.216
4	0.221	49	0.680	94	0.999	139	0.903	184	0.954	229	0.874	274	0.457	319	0.221
5	0.229	50	0.688	95	1.000	140	0.901	185	0.958	230	0.865	275	0.446	320	0.226
6	0.238	51	0.697	96	1.000	141	0.900	186	0.961	231	0.857	276	0.436	321	0.231
7	0.248	52	0.706	97	1.000	142	0.899	187	0.964	232	0.848	277	0.425	322	0.235
8	0.257	53	0.715	98	1.000	143	0.899	188	0.967	233	0.839	278	0.414	323	0.240
9	0.267	54	0.724	99	0.999	144	0.898	189	0.971	234	0.830	279	0.403	324	0.244
10	0.278	55	0.733	100	0.998	145	0.897	190	0.974	235	0.821	280	0.392	325	0.247
11	0.289	56	0.742	101	0.997	146	0.897	191	0.977	236	0.812	281	0.381	326	0.250
12	0.300	57	0.751	102	0.996	147	0.896	192	0.980	237	0.803	282	0.370	327	0.253
13	0.311	58	0.760	103	0.994	148	0.896	193	0.983	238	0.794	283	0.358	328	0.255
14	0.322	59	0.769	104	0.992	149	0.896	194	0.985	239	0.784	284	0.347	329	0.256
15	0.334	60	0.778	105	0.990	150	0.895	195	0.988	240	0.775	285	0.335	330	0.257
16	0.346	61	0.788	106	0.987	151	0.897	196	0.990	241	0.766	286	0.324	331	0.256
17	0.357	62	0.797	107	0.985	152	0.898	197	0.992	242	0.757	287	0.313	332	0.255
18	0.369	63	0.807	108	0.982	153	0.900	198	0.993	243	0.748	288	0.302	333	0.253
19	0.381	64	0.816	109	0.979	154	0.901	199	0.994	244	0.739	289	0.291	334	0.251
20	0.393	65	0.826	110	0.976	155	0.902	200	0.995	245	0.730	290	0.280	335	0.248
21	0.404	66	0.835	111	0.973	156	0.904	201	0.996	246	0.720	291	0.270	336	0.245
22	0.415	67	0.845	112	0.970	157	0.905	202	0.996	247	0.711	292	0.260	337	0.241
23	0.427	68	0.854	113	0.967	158	0.906	203	0.996	248	0.702	293	0.250	338	0.236
24	0.438	69	0.863	114	0.964	159	0.907	204	0.996	249	0.693	294	0.241	339	0.232
25	0.449	70	0.873	115	0.960	160	0.908	205	0.995	250	0.684	295	0.232	340	0.227
26	0.460	71	0.882	116	0.957	161	0.910	206	0.993	251	0.675	296	0.224	341	0.222
27	0.470	72	0.890	117	0.954	162	0.911	207	0.992	252	0.666	297	0.216	342	0.217
28	0.481	73	0.899	118	0.951	163	0.912	208	0.990	253	0.657	298	0.209	343	0.212
29	0.491	74	0.907	119	0.947	164	0.913	209	0.988	254	0.648	299	0.203	344	0.207
30	0.502	75	0.916	120	0.944	165	0.914	210	0.985	255	0.639	300	0.197	345	0.202
31	0.512	76	0.923	121	0.941	166	0.916	211	0.982	256	0.630	301	0.192	346	0.198
32	0.522	77	0.931	122	0.938	167	0.917	212	0.979	257	0.620	302	0.188	347	0.194
33	0.532	78	0.938	123	0.935	168	0.918	213	0.975	258	0.611	303	0.184	348	0.190
34	0.542	79	0.945	124	0.933	169	0.920	214	0.971	259	0.602	304	0.182	349	0.186
35	0.552	80	0.951	125	0.930	170	0.921	215	0.967	260	0.593	305	0.180	350	0.183
36	0.561	81	0.957	126	0.927	171	0.923	216	0.962	261	0.583	306	0.179	351	0.181
37	0.571	82	0.963	127	0.925	172	0.925	217	0.957	262	0.574	307	0.179	352	0.179
38	0.580	83	0.968	128	0.922	173	0.926	218	0.952	263	0.565	308	0.180	353	0.178
39	0.590	84	0.972	129	0.920	174	0.928	219	0.946	264	0.555	309	0.182	354	0.178
40	0.599	85	0.977	130	0.918	175	0.930	220	0.940	265	0.546	310	0.184	355	0.178
41	0.608	86	0.981	131	0.916	176	0.932	221	0.934	266	0.536	311	0.187	356	0.180
42	0.617	87	0.984	132	0.914	177	0.935	222	0.927	267	0.527	312	0.190	357	0.182
43	0.626	88	0.987	133	0.912	178	0.937	223	0.920	268	0.517	313	0.194	358	0.185
44	0.635	89	0.990	134	0.910	179	0.940	224	0.913	269	0.507	314	0.198	359	0.189



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ELEVATION PATTERN

RMS Gain at Main Lobe	23.00 (13.62 dB)	Beam Tilt	1.00 deg
RMS Gain at Horizontal	13.90 (11.43 dB)	Frequency	581.00 MHz
Calculated / Measured	Calculated	Drawing #	26G230100

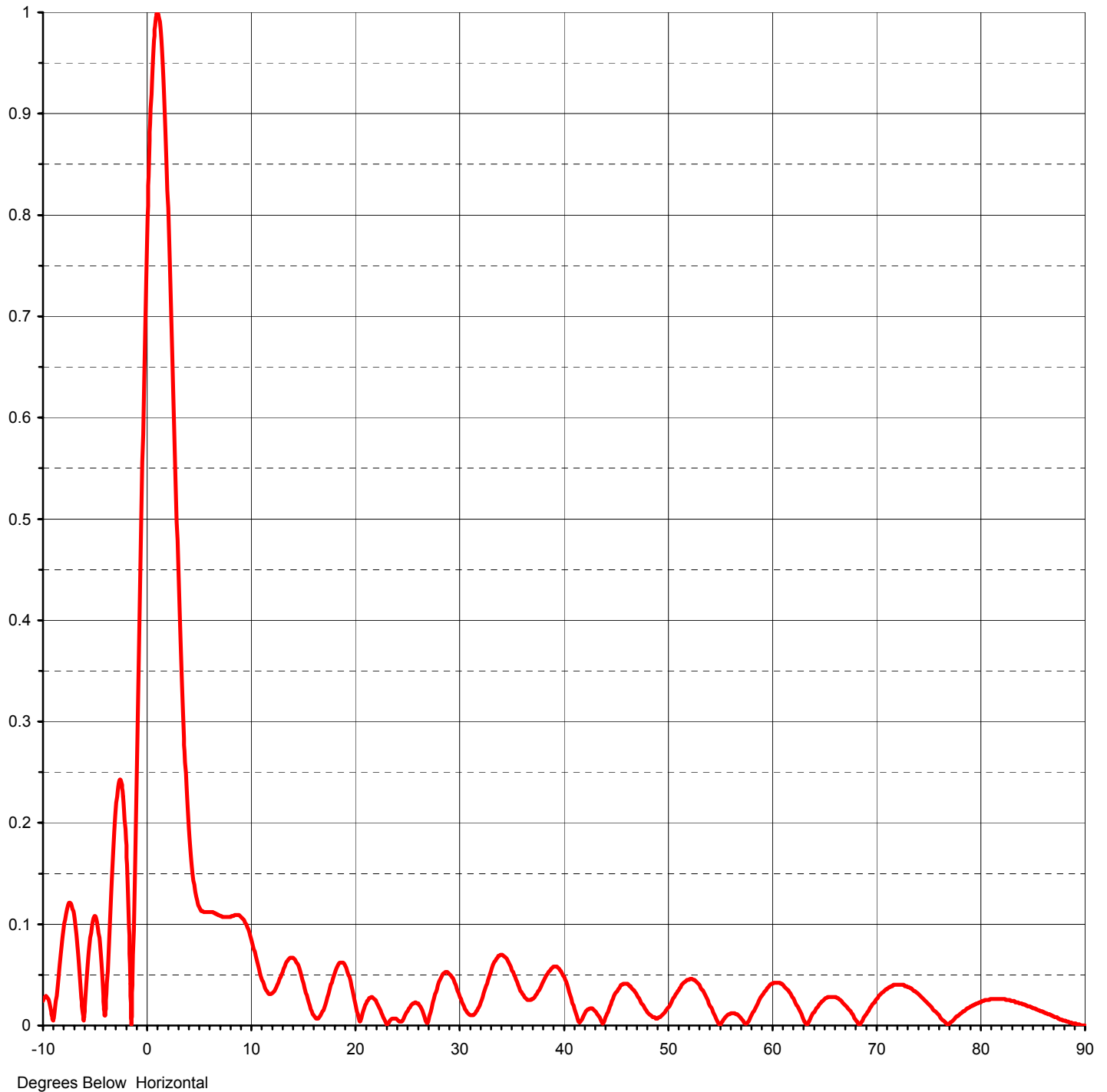




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Call Letters	WPSG-DT	Channel	32
Location	Philadelphia, PA		
Customer			
Antenna Type	TFU-26GTH-R 1C190SP		

ELEVATION PATTERN

RMS Gain at Main Lobe	23.00 (13.62 dB)	Beam Tilt	1.00 deg
RMS Gain at Horizontal	13.90 (11.43 dB)	Frequency	581.00 MHz
Calculated / Measured	Calculated	Drawing #	26G230100-90





Proposal Number **DCA-9648** Revision: **1**
 Date **22-Feb-02**
 Call Letters **WPSG-DT** Channel **32**
 Location **Philadelphia, PA**
 Customer
 Antenna Type **TFU-26GTH-R 1C190SP**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **26G230100-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.024	2.4	0.664	10.6	0.065	30.5	0.019	51.0	0.034	71.5	0.039
-9.5	0.026	2.6	0.589	10.8	0.057	31.0	0.011	51.5	0.041	72.0	0.040
-9.0	0.005	2.8	0.515	11.0	0.049	31.5	0.011	52.0	0.045	72.5	0.040
-8.5	0.049	3.0	0.445	11.5	0.035	32.0	0.020	52.5	0.045	73.0	0.038
-8.0	0.096	3.2	0.380	12.0	0.031	32.5	0.035	53.0	0.041	73.5	0.035
-7.5	0.121	3.4	0.322	12.5	0.038	33.0	0.051	53.5	0.033	74.0	0.031
-7.0	0.107	3.6	0.271	13.0	0.051	33.5	0.064	54.0	0.022	74.5	0.026
-6.5	0.055	3.8	0.229	13.5	0.063	34.0	0.070	54.5	0.011	75.0	0.021
-6.0	0.018	4.0	0.194	14.0	0.067	34.5	0.067	55.0	0.001	75.5	0.015
-5.5	0.082	4.2	0.167	14.5	0.061	35.0	0.058	55.5	0.007	76.0	0.010
-5.0	0.108	4.4	0.147	15.0	0.045	35.5	0.045	56.0	0.011	76.5	0.004
-4.5	0.075	4.6	0.132	15.5	0.026	36.0	0.033	56.5	0.012	77.0	0.002
-4.0	0.010	4.8	0.123	16.0	0.011	36.5	0.026	57.0	0.008	77.5	0.007
-3.5	0.121	5.0	0.117	16.5	0.007	37.0	0.026	57.5	0.002	78.0	0.011
-3.0	0.214	5.2	0.113	17.0	0.015	37.5	0.031	58.0	0.008	78.5	0.015
-2.8	0.235	5.4	0.112	17.5	0.031	38.0	0.041	58.5	0.018	79.0	0.019
-2.6	0.243	5.6	0.112	18.0	0.049	38.5	0.051	59.0	0.028	79.5	0.021
-2.4	0.236	5.8	0.112	18.5	0.061	39.0	0.057	59.5	0.035	80.0	0.023
-2.2	0.212	6.0	0.112	19.0	0.061	39.5	0.057	60.0	0.041	80.5	0.025
-2.0	0.172	6.2	0.112	19.5	0.048	40.0	0.050	60.5	0.042	81.0	0.026
-1.8	0.114	6.4	0.111	20.0	0.025	40.5	0.037	61.0	0.041	81.5	0.026
-1.6	0.041	6.6	0.110	20.5	0.004	41.0	0.020	61.5	0.036	82.0	0.026
-1.4	0.046	6.8	0.109	21.0	0.019	41.5	0.004	62.0	0.028	82.5	0.025
-1.2	0.144	7.0	0.108	21.5	0.027	42.0	0.010	62.5	0.019	83.0	0.024
-1.0	0.251	7.2	0.107	22.0	0.025	42.5	0.016	63.0	0.008	83.5	0.023
-0.8	0.362	7.4	0.107	22.5	0.015	43.0	0.015	63.5	0.002	84.0	0.021
-0.6	0.474	7.6	0.107	23.0	0.003	43.5	0.008	64.0	0.012	84.5	0.019
-0.4	0.583	7.8	0.107	23.5	0.006	44.0	0.005	64.5	0.021	85.0	0.017
-0.2	0.686	8.0	0.107	24.0	0.007	44.5	0.019	65.0	0.026	85.5	0.015
0.0	0.777	8.2	0.108	24.5	0.004	45.0	0.031	65.5	0.028	86.0	0.013
0.2	0.856	8.4	0.109	25.0	0.013	45.5	0.039	66.0	0.028	86.5	0.011
0.4	0.919	8.6	0.109	25.5	0.021	46.0	0.041	66.5	0.025	87.0	0.009
0.6	0.964	8.8	0.109	26.0	0.022	46.5	0.039	67.0	0.020	87.5	0.007
0.8	0.991	9.0	0.107	26.5	0.015	47.0	0.032	67.5	0.014	88.0	0.005
1.0	1.000	9.2	0.105	27.0	0.003	47.5	0.023	68.0	0.006	88.5	0.003
1.2	0.991	9.4	0.102	27.5	0.022	48.0	0.015	68.5	0.003	89.0	0.002
1.4	0.965	9.6	0.097	28.0	0.040	48.5	0.009	69.0	0.011	89.5	0.001
1.6	0.924	9.8	0.095	28.5	0.051	49.0	0.007	69.5	0.019	90.0	0.000
1.8	0.870	10.0	0.088	29.0	0.052	49.5	0.010	70.0	0.026		
2.0	0.807	10.2	0.081	29.5	0.045	50.0	0.016	70.5	0.032		
2.2	0.738	10.4	0.073	30.0	0.032	50.5	0.025	71.0	0.036		