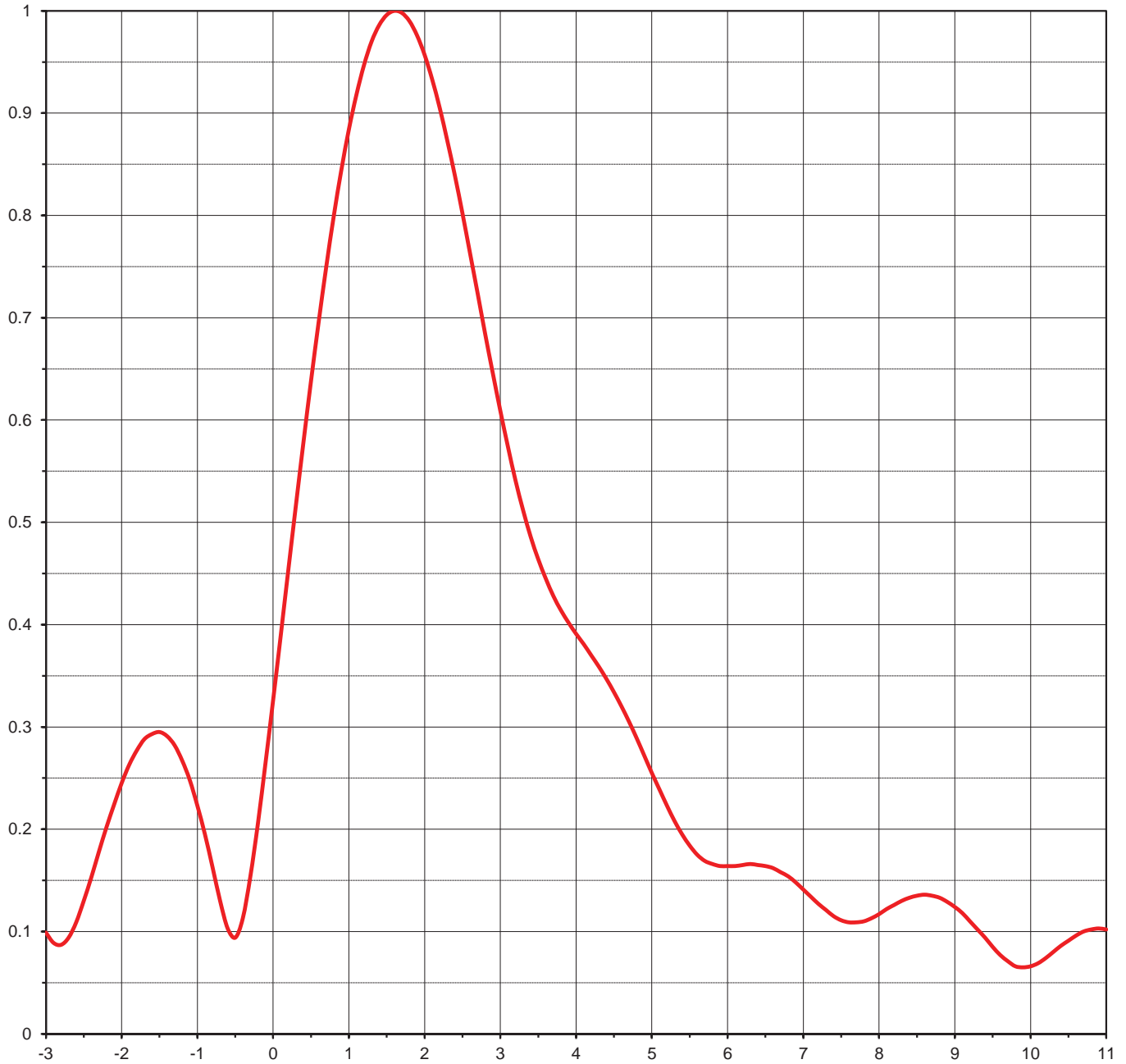




Proposal Number	C-05162	
Date	2-Nov-12	
Call Letters	KWHY	Channel 42
Location	Los Angeles, CA	
Customer		
Antenna Type	TFU-26ETT/VP-R 4S180	

ELEVATION PATTERN

RMS Gain at Main Lobe	23.00 (13.62 dB)	Beam Tilt	1.60 deg
RMS Gain at Horizontal	2.40 (3.80 dB)	Frequency	641.00 MHz
Calculated / Measured	Calculated	Drawing #	26E230160



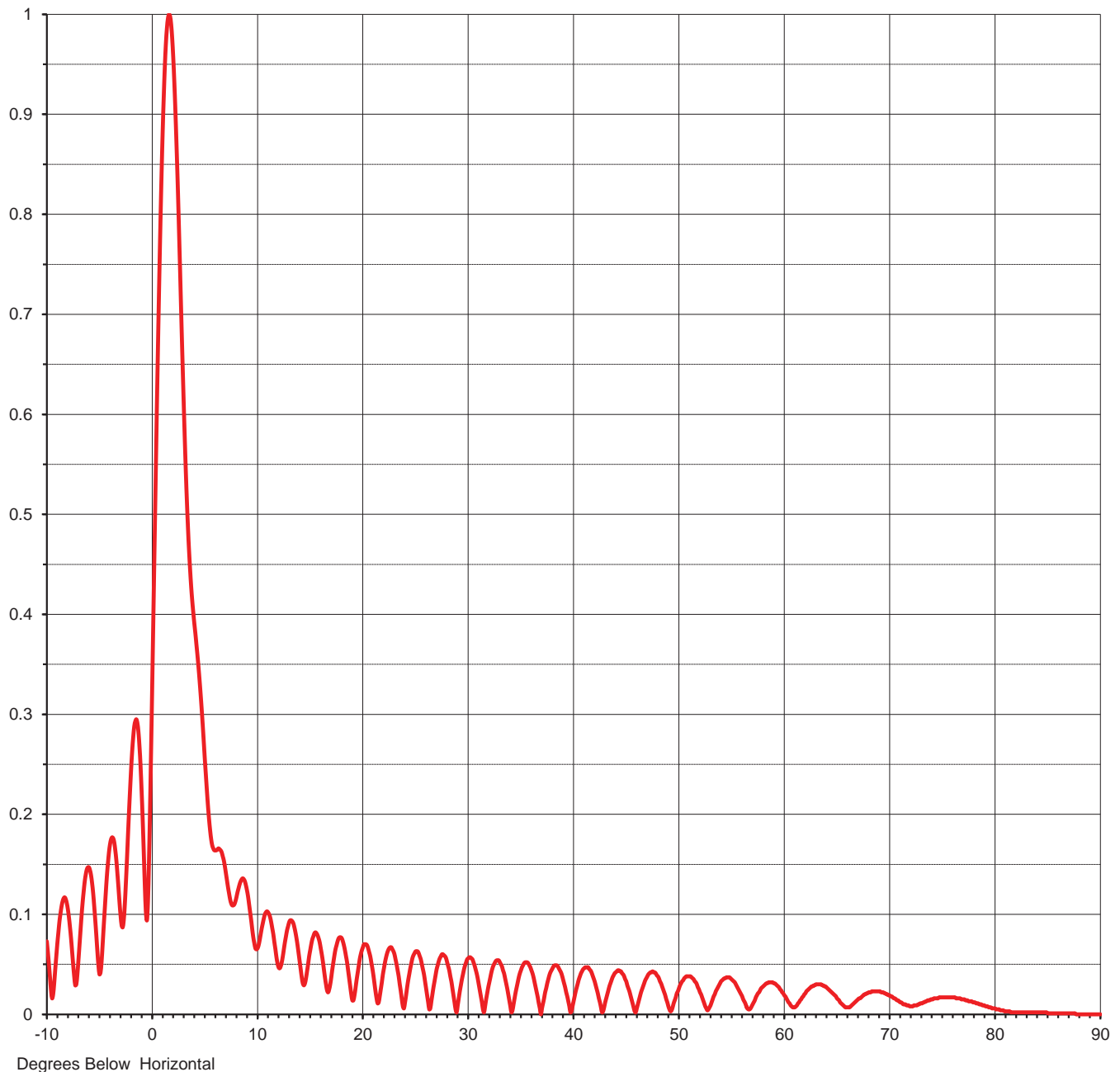
Degrees Below Horizontal



Proposal Number	C-05162		
Date	2-Nov-12		
Call Letters	KWHY	Channel	42
Location	Los Angeles, CA		
Customer			
Antenna Type	TFU-26ETT/VP-R 4S180		

ELEVATION PATTERN

RMS Gain at Main Lobe	23.00 (13.62 dB)	Beam Tilt	1.60 deg
RMS Gain at Horizontal	2.40 (3.80 dB)	Frequency	641.00 MHz
Calculated / Measured	Calculated	Drawing #	26E230160-90





Proposal Number **C-05162**
Date **2-Nov-12**
Call Letters **KWHY** Channel **42**
Location **Los Angeles, CA**
Customer
Antenna Type **TFU-26ETT/VP-R 4S180**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **26E230160-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.073	2.4	0.839	10.6	0.091	30.5	0.055	51.0	0.038	71.5	0.010
-9.5	0.016	2.6	0.763	10.8	0.100	31.0	0.036	51.5	0.035	72.0	0.008
-9.0	0.071	2.8	0.684	11.0	0.103	31.5	0.005	52.0	0.025	72.5	0.009
-8.5	0.113	3.0	0.609	11.5	0.086	32.0	0.027	52.5	0.011	73.0	0.011
-8.0	0.105	3.2	0.541	12.0	0.051	32.5	0.049	53.0	0.007	73.5	0.013
-7.5	0.050	3.4	0.486	12.5	0.058	33.0	0.054	53.5	0.020	74.0	0.015
-7.0	0.054	3.6	0.445	13.0	0.088	33.5	0.041	54.0	0.031	74.5	0.016
-6.5	0.123	3.8	0.414	13.5	0.091	34.0	0.014	54.5	0.036	75.0	0.017
-6.0	0.147	4.0	0.391	14.0	0.061	34.5	0.016	55.0	0.036	75.5	0.017
-5.5	0.108	4.2	0.370	14.5	0.029	35.0	0.041	55.5	0.030	76.0	0.017
-5.0	0.040	4.4	0.347	15.0	0.058	35.5	0.052	56.0	0.020	76.5	0.016
-4.5	0.105	4.6	0.320	15.5	0.081	36.0	0.047	56.5	0.008	77.0	0.015
-4.0	0.170	4.8	0.289	16.0	0.072	36.5	0.027	57.0	0.008	77.5	0.013
-3.5	0.164	5.0	0.255	16.5	0.037	37.0	0.000	57.5	0.019	78.0	0.012
-3.0	0.099	5.2	0.223	17.0	0.030	37.5	0.026	58.0	0.027	78.5	0.010
-2.8	0.087	5.4	0.195	17.5	0.065	38.0	0.044	58.5	0.031	79.0	0.009
-2.6	0.109	5.6	0.175	18.0	0.077	38.5	0.049	59.0	0.032	79.5	0.007
-2.4	0.153	5.8	0.166	18.5	0.058	39.0	0.039	59.5	0.028	80.0	0.006
-2.2	0.202	6.0	0.164	19.0	0.020	39.5	0.018	60.0	0.021	80.5	0.004
-2.0	0.245	6.2	0.165	19.5	0.034	40.0	0.008	60.5	0.012	81.0	0.003
-1.8	0.277	6.4	0.165	20.0	0.064	40.5	0.031	61.0	0.007	81.5	0.002
-1.6	0.293	6.6	0.162	20.5	0.069	41.0	0.045	61.5	0.012	82.0	0.002
-1.4	0.291	6.8	0.154	21.0	0.046	41.5	0.047	62.0	0.020	82.5	0.002
-1.2	0.267	7.0	0.141	21.5	0.011	42.0	0.036	62.5	0.026	83.0	0.002
-1.0	0.223	7.2	0.127	22.0	0.040	42.5	0.016	63.0	0.029	83.5	0.002
-0.8	0.163	7.4	0.115	22.5	0.064	43.0	0.007	63.5	0.030	84.0	0.002
-0.6	0.103	7.6	0.109	23.0	0.063	43.5	0.028	64.0	0.028	84.5	0.002
-0.4	0.113	7.8	0.110	23.5	0.038	44.0	0.041	64.5	0.022	85.0	0.001
-0.2	0.206	8.0	0.117	24.0	0.006	44.5	0.043	65.0	0.016	85.5	0.001
0.0	0.326	8.2	0.126	24.5	0.040	45.0	0.035	65.5	0.010	86.0	0.001
0.2	0.453	8.4	0.133	25.0	0.061	45.5	0.019	66.0	0.007	86.5	0.001
0.4	0.578	8.6	0.136	25.5	0.058	46.0	0.002	66.5	0.010	87.0	0.001
0.6	0.695	8.8	0.133	26.0	0.033	46.5	0.022	67.0	0.015	87.5	0.001
0.8	0.799	9.0	0.124	26.5	0.006	47.0	0.036	67.5	0.019	88.0	0.000
1.0	0.884	9.2	0.110	27.0	0.039	47.5	0.042	68.0	0.022	88.5	0.000
1.2	0.947	9.4	0.094	27.5	0.058	48.0	0.039	68.5	0.023	89.0	0.000
1.4	0.986	9.6	0.077	28.0	0.056	48.5	0.028	69.0	0.023	89.5	0.000
1.6	1.000	9.8	0.071	28.5	0.033	49.0	0.012	69.5	0.021	90.0	0.000
1.8	0.990	10.0	0.065	29.0	0.002	49.5	0.007	70.0	0.019		
2.0	0.957	10.2	0.069	29.5	0.035	50.0	0.023	70.5	0.016		
2.2	0.905	10.4	0.080	30.0	0.055	50.5	0.034	71.0	0.012		

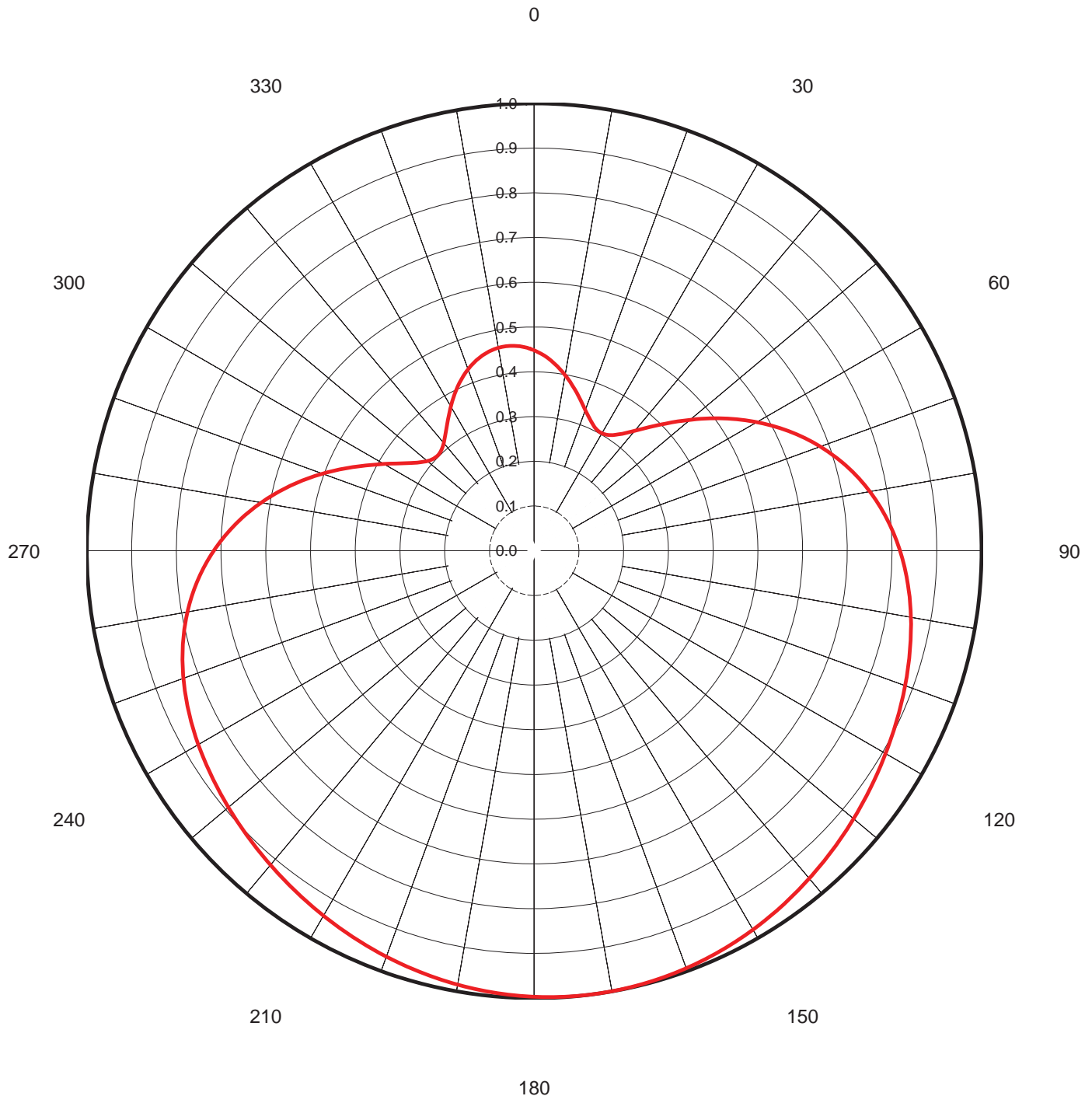
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Proposal Number	C-05162		
Date	2-Nov-12		
Call Letters	KWHY	Channel	42
Location	Los Angeles, CA		
Customer			
Antenna Type	TFU-26ETT/VP-R 4S180		

AZIMUTH PATTERN

Gain **1.80** (2.55 dB)
Calculated / Measured **Calculated**

Frequency **641.00 MHz**
Drawing # **S180-42**





Proposal Number **C-05162**
Date **2-Nov-12**
Call Letters **KWHY** Channel **42**
Location **Los Angeles, CA**
Customer
Antenna Type **TFU-26ETT/VP-R 4S180**

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **S180-42**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.448	45	0.398	90	0.818	135	0.944	180	0.997	225	0.905	270	0.716	315	0.303
1	0.445	46	0.409	91	0.822	136	0.947	181	0.996	226	0.902	271	0.708	316	0.304
2	0.441	47	0.421	92	0.827	137	0.949	182	0.995	227	0.900	272	0.699	317	0.305
3	0.436	48	0.432	93	0.831	138	0.952	183	0.994	228	0.897	273	0.690	318	0.308
4	0.432	49	0.444	94	0.835	139	0.954	184	0.993	229	0.895	274	0.681	319	0.311
5	0.427	50	0.455	95	0.838	140	0.957	185	0.992	230	0.892	275	0.671	320	0.315
6	0.422	51	0.467	96	0.842	141	0.959	186	0.991	231	0.890	276	0.661	321	0.319
7	0.416	52	0.479	97	0.845	142	0.961	187	0.989	232	0.887	277	0.651	322	0.324
8	0.411	53	0.491	98	0.849	143	0.963	188	0.988	233	0.885	278	0.641	323	0.329
9	0.405	54	0.504	99	0.852	144	0.966	189	0.987	234	0.882	279	0.630	324	0.334
10	0.399	55	0.516	100	0.855	145	0.968	190	0.985	235	0.880	280	0.620	325	0.340
11	0.392	56	0.528	101	0.858	146	0.970	191	0.983	236	0.877	281	0.609	326	0.347
12	0.386	57	0.540	102	0.861	147	0.972	192	0.982	237	0.875	282	0.598	327	0.353
13	0.379	58	0.551	103	0.864	148	0.974	193	0.980	238	0.872	283	0.586	328	0.359
14	0.373	59	0.563	104	0.867	149	0.976	194	0.978	239	0.870	284	0.575	329	0.366
15	0.366	60	0.575	105	0.870	150	0.978	195	0.976	240	0.867	285	0.563	330	0.373
16	0.359	61	0.586	106	0.872	151	0.980	196	0.974	241	0.864	286	0.551	331	0.379
17	0.353	62	0.598	107	0.875	152	0.982	197	0.972	242	0.861	287	0.540	332	0.386
18	0.347	63	0.609	108	0.877	153	0.983	198	0.970	243	0.858	288	0.528	333	0.392
19	0.340	64	0.620	109	0.880	154	0.985	199	0.968	244	0.855	289	0.516	334	0.399
20	0.334	65	0.630	110	0.882	155	0.987	200	0.966	245	0.852	290	0.504	335	0.405
21	0.329	66	0.641	111	0.885	156	0.988	201	0.963	246	0.849	291	0.491	336	0.411
22	0.324	67	0.651	112	0.887	157	0.989	202	0.961	247	0.845	292	0.479	337	0.416
23	0.319	68	0.661	113	0.890	158	0.991	203	0.959	248	0.842	293	0.467	338	0.422
24	0.315	69	0.671	114	0.892	159	0.992	204	0.957	249	0.838	294	0.455	339	0.427
25	0.311	70	0.681	115	0.895	160	0.993	205	0.954	250	0.835	295	0.444	340	0.432
26	0.308	71	0.690	116	0.897	161	0.994	206	0.952	251	0.831	296	0.432	341	0.436
27	0.305	72	0.699	117	0.900	162	0.995	207	0.949	252	0.827	297	0.421	342	0.441
28	0.304	73	0.708	118	0.902	163	0.996	208	0.947	253	0.822	298	0.409	343	0.445
29	0.303	74	0.716	119	0.905	164	0.997	209	0.944	254	0.818	299	0.398	344	0.448
30	0.303	75	0.725	120	0.907	165	0.998	210	0.942	255	0.813	300	0.388	345	0.451
31	0.304	76	0.733	121	0.909	166	0.998	211	0.939	256	0.808	301	0.378	346	0.454
32	0.306	77	0.740	122	0.912	167	0.999	212	0.937	257	0.803	302	0.368	347	0.456
33	0.308	78	0.748	123	0.914	168	0.999	213	0.934	258	0.798	303	0.359	348	0.458
34	0.312	79	0.755	124	0.917	169	1.000	214	0.932	259	0.793	304	0.350	349	0.460
35	0.316	80	0.762	125	0.919	170	1.000	215	0.929	260	0.787	305	0.342	350	0.461
36	0.322	81	0.768	126	0.922	171	1.000	216	0.927	261	0.781	306	0.334	351	0.461
37	0.328	82	0.775	127	0.924	172	1.000	217	0.924	262	0.775	307	0.328	352	0.462
38	0.334	83	0.781	128	0.927	173	1.000	218	0.922	263	0.768	308	0.322	353	0.461
39	0.342	84	0.787	129	0.929	174	1.000	219	0.919	264	0.762	309	0.316	354	0.461
40	0.350	85	0.793	130	0.932	175	1.000	220	0.917	265	0.755	310	0.312	355	0.460
41	0.359	86	0.798	131	0.934	176	0.999	221	0.914	266	0.748	311	0.308	356	0.458
42	0.368	87	0.803	132	0.937	177	0.999	222	0.912	267	0.740	312	0.306	357	0.456
43	0.378	88	0.808	133	0.939	178	0.998	223	0.909	268	0.733	313	0.304	358	0.454
44	0.388	89	0.813	134	0.942	179	0.998	224	0.907	269	0.725	314	0.303	359	0.451

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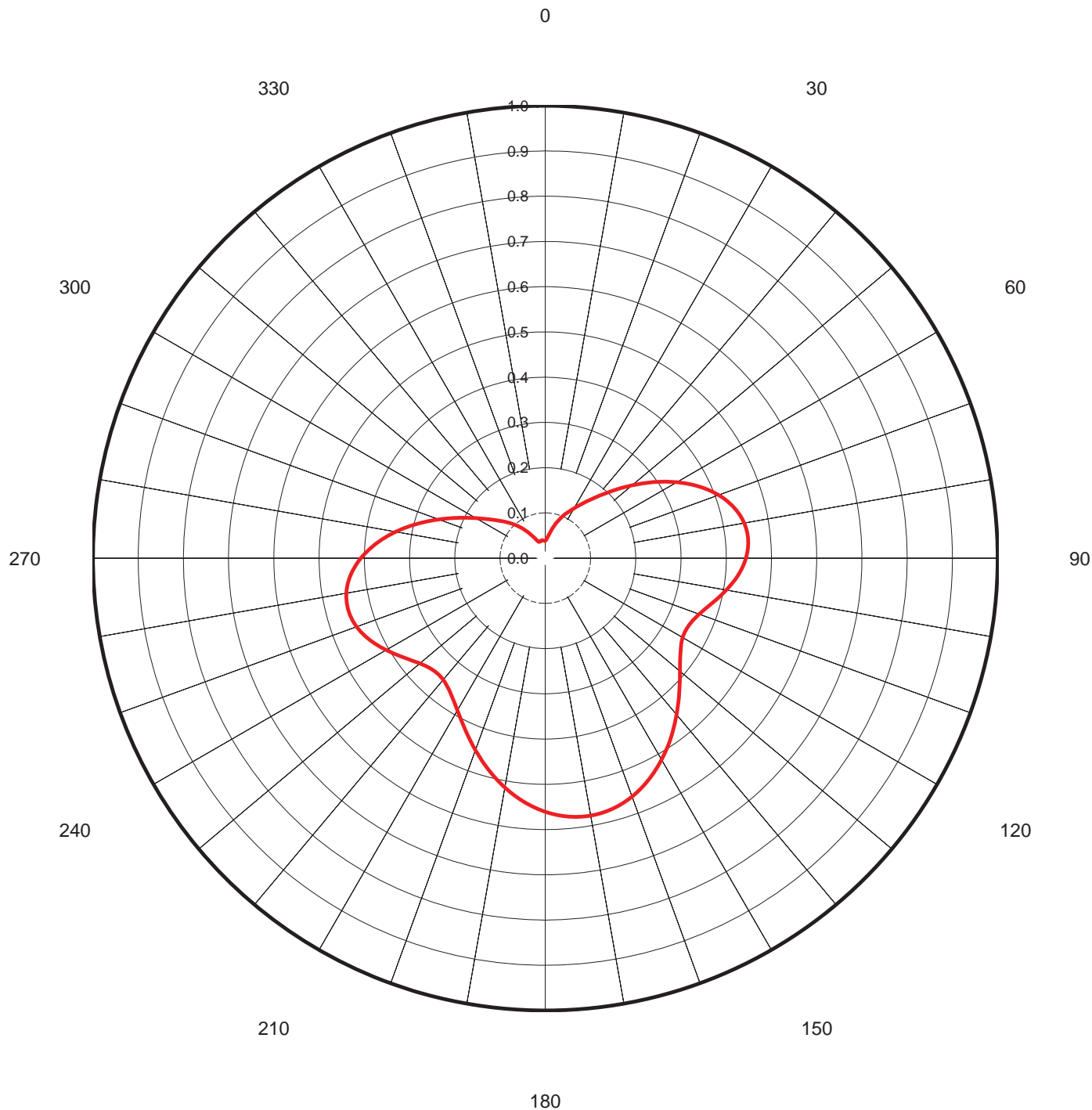


Proposal Number	C-05162	
Date	2-Nov-12	
Call Letters	KWHY	Channel 42
Location	Los Angeles, CA	
Customer		
Antenna Type	TFU-26ETT/VP-R 4S180	

AZIMUTH PATTERN/VERTICAL POLARIZATION

Gain	2.60	(4.15 dB)
Calculated / Measured		Calculated

Frequency	641.00 MHz
Drawing #	4S180-VPOL-42





Proposal Number

C-05162

Date

2-Nov-12

Call Letters

KWHY

Channel

42

Location

Los Angeles, CA

Customer

Antenna Type

TFU-26ETT/VP-R 4S180**TABULATION OF AZIMUTH PATTERN/VERTICAL POLARIZATION**Azimuth Pattern Drawing #: **4S180-VPOL-42**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.038	45	0.211	90	0.444	135	0.419	180	0.561	225	0.350	270	0.408	315	0.109
1	0.039	46	0.218	91	0.441	136	0.425	181	0.557	226	0.352	271	0.402	316	0.106
2	0.040	47	0.226	92	0.438	137	0.432	182	0.553	227	0.354	272	0.395	317	0.102
3	0.041	48	0.234	93	0.435	138	0.438	183	0.549	228	0.356	273	0.389	318	0.099
4	0.042	49	0.242	94	0.432	139	0.445	184	0.545	229	0.359	274	0.382	319	0.095
5	0.044	50	0.251	95	0.428	140	0.452	185	0.541	230	0.362	275	0.375	320	0.091
6	0.046	51	0.259	96	0.424	141	0.458	186	0.536	231	0.366	276	0.367	321	0.088
7	0.048	52	0.267	97	0.420	142	0.465	187	0.531	232	0.370	277	0.360	322	0.084
8	0.050	53	0.276	98	0.416	143	0.471	188	0.526	233	0.374	278	0.352	323	0.081
9	0.053	54	0.285	99	0.411	144	0.478	189	0.520	234	0.378	279	0.344	324	0.077
10	0.056	55	0.293	100	0.406	145	0.484	190	0.515	235	0.383	280	0.336	325	0.073
11	0.059	56	0.302	101	0.402	146	0.491	191	0.509	236	0.387	281	0.327	326	0.070
12	0.063	57	0.310	102	0.397	147	0.497	192	0.503	237	0.392	282	0.319	327	0.066
13	0.066	58	0.319	103	0.392	148	0.503	193	0.497	238	0.397	283	0.310	328	0.063
14	0.070	59	0.327	104	0.387	149	0.509	194	0.491	239	0.402	284	0.302	329	0.059
15	0.073	60	0.336	105	0.383	150	0.515	195	0.484	240	0.406	285	0.293	330	0.056
16	0.077	61	0.344	106	0.378	151	0.520	196	0.478	241	0.411	286	0.285	331	0.053
17	0.081	62	0.352	107	0.374	152	0.526	197	0.471	242	0.416	287	0.276	332	0.050
18	0.084	63	0.360	108	0.370	153	0.531	198	0.465	243	0.420	288	0.267	333	0.048
19	0.088	64	0.367	109	0.366	154	0.536	199	0.458	244	0.424	289	0.259	334	0.046
20	0.091	65	0.375	110	0.362	155	0.541	200	0.452	245	0.428	290	0.251	335	0.044
21	0.095	66	0.382	111	0.359	156	0.545	201	0.445	246	0.432	291	0.242	336	0.042
22	0.099	67	0.389	112	0.356	157	0.549	202	0.438	247	0.435	292	0.234	337	0.041
23	0.102	68	0.395	113	0.354	158	0.553	203	0.432	248	0.438	293	0.226	338	0.040
24	0.106	69	0.402	114	0.352	159	0.557	204	0.425	249	0.441	294	0.218	339	0.039
25	0.109	70	0.408	115	0.350	160	0.561	205	0.419	250	0.444	295	0.211	340	0.038
26	0.113	71	0.413	116	0.349	161	0.564	206	0.412	251	0.446	296	0.204	341	0.038
27	0.116	72	0.419	117	0.349	162	0.567	207	0.406	252	0.447	297	0.196	342	0.038
28	0.120	73	0.423	118	0.349	163	0.569	208	0.400	253	0.449	298	0.190	343	0.039
29	0.124	74	0.428	119	0.350	164	0.572	209	0.394	254	0.450	299	0.183	344	0.039
30	0.128	75	0.432	120	0.351	165	0.574	210	0.389	255	0.450	300	0.177	345	0.039
31	0.132	76	0.436	121	0.353	166	0.575	211	0.383	256	0.450	301	0.171	346	0.039
32	0.136	77	0.439	122	0.355	167	0.576	212	0.378	257	0.450	302	0.165	347	0.040
33	0.140	78	0.442	123	0.358	168	0.577	213	0.373	258	0.449	303	0.160	348	0.040
34	0.145	79	0.444	124	0.361	169	0.578	214	0.369	259	0.448	304	0.154	349	0.040
35	0.149	80	0.447	125	0.365	170	0.578	215	0.365	260	0.447	305	0.149	350	0.040
36	0.154	81	0.448	126	0.369	171	0.578	216	0.361	261	0.444	306	0.145	351	0.040
37	0.160	82	0.449	127	0.373	172	0.577	217	0.358	262	0.442	307	0.140	352	0.040
38	0.165	83	0.450	128	0.378	173	0.576	218	0.355	263	0.439	308	0.136	353	0.040
39	0.171	84	0.450	129	0.383	174	0.575	219	0.353	264	0.436	309	0.132	354	0.039
40	0.177	85	0.450	130	0.389	175	0.574	220	0.351	265	0.432	310	0.128	355	0.039
41	0.183	86	0.450	131	0.394	176	0.572	221	0.350	266	0.428	311	0.124	356	0.039
42	0.190	87	0.449	132	0.400	177	0.569	222	0.349	267	0.423	312	0.120	357	0.039
43	0.196	88	0.447	133	0.406	178	0.567	223	0.349	268	0.419	313	0.116	358	0.038
44	0.204	89	0.446	134	0.412	179	0.564	224	0.349	269	0.413	314	0.113	359	0.038

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