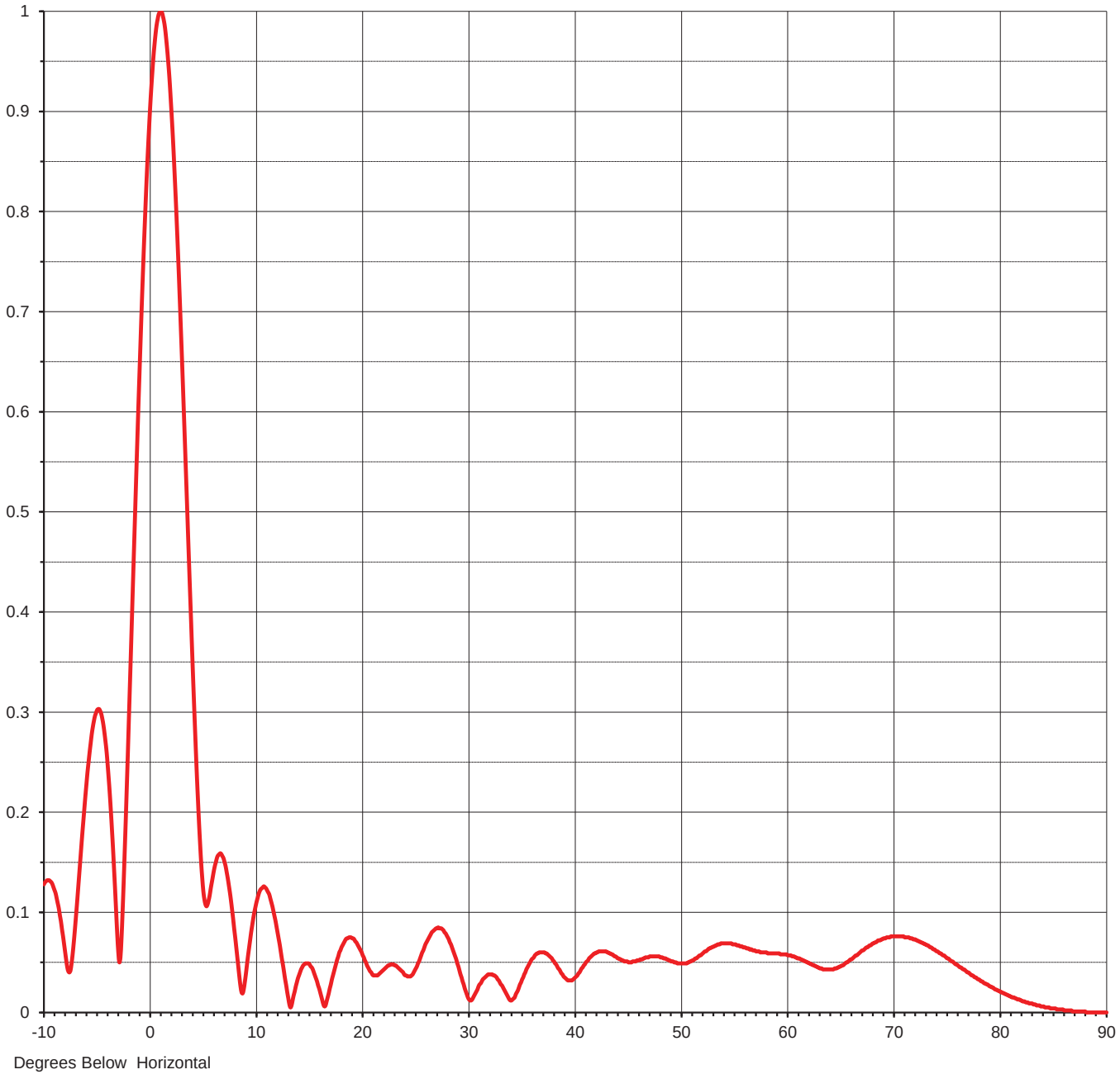
Proposal Number		Revision:	**1**
Date	**5-Aug-14**		
Call Letters	**WPXA**	Channel	**31**
Location	**Rome, GA**		
Customer	**Ion**		
Antenna Type	**TFU-14JTH-R 6T180 (SP)**		

ELEVATION PATTERN

RMS Gain at Main Lobe	**14.00 (11.46 dB)**	Beam Tilt	**1.00 deg**
RMS Gain at Horizontal	**11.50 (10.61 dB)**	Frequency	**575.00 MHz**
Calculated / Measured	**Calculated**	Drawing #	**14J140100-90**



Dielectric

Proposal Number		Revision:	1
Date	5-Aug-14		
Call Letters	WPXA	Channel	31
Location	Rome, GA		
Customer	Ion		
Antenna Type	TFU-14JTH-R 6T180 (SP)		

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **14J140100-90**

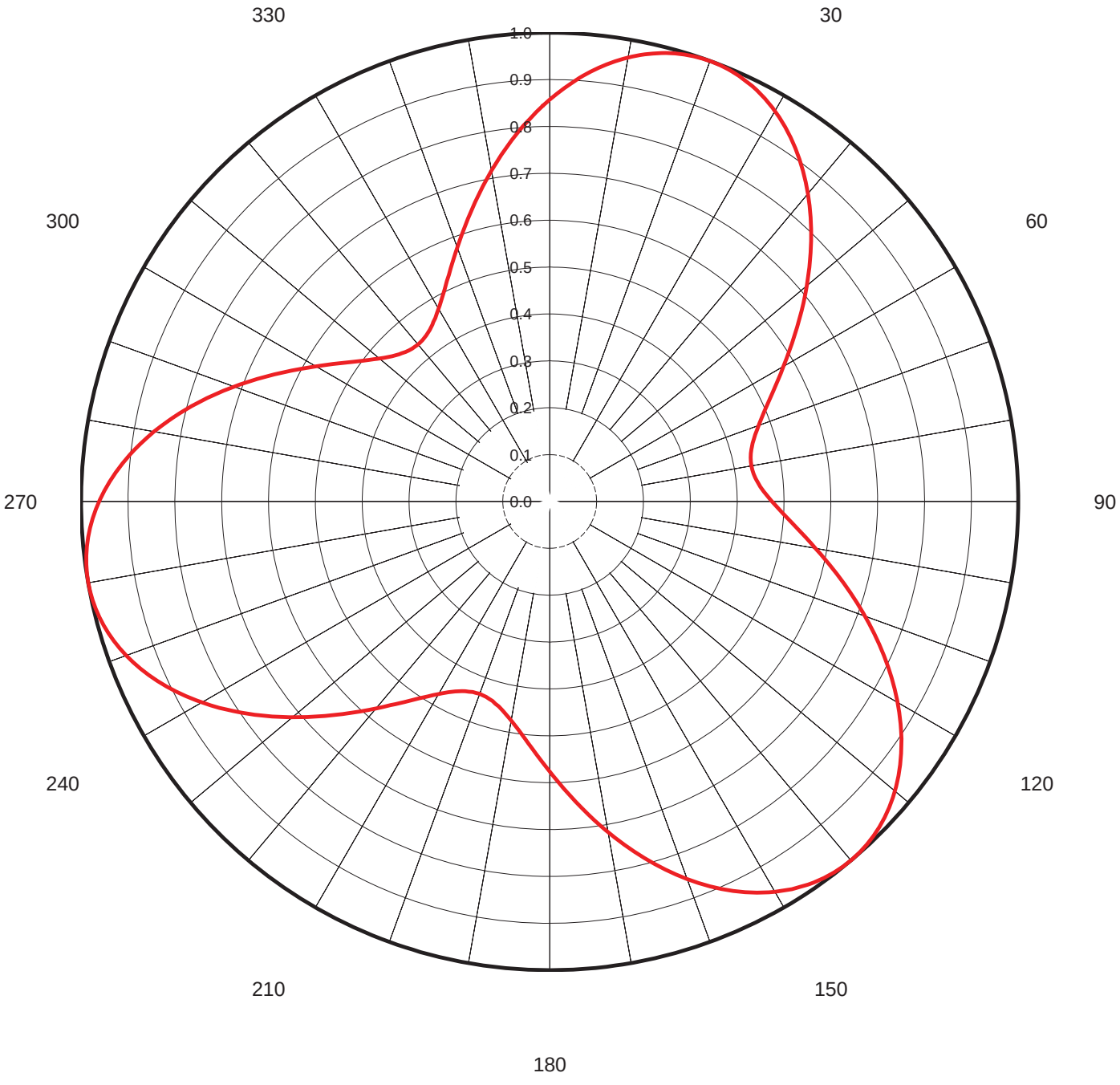
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.128	2.4	0.814	10.6	0.124	30.5	0.015	51.0	0.051	71.5	0.074
-9.5	0.132	2.6	0.763	10.8	0.126	31.0	0.026	51.5	0.054	72.0	0.073
-9.0	0.122	2.8	0.708	11.0	0.124	31.5	0.034	52.0	0.058	72.5	0.070
-8.5	0.097	3.0	0.650	11.5	0.110	32.0	0.038	52.5	0.062	73.0	0.068
-8.0	0.060	3.2	0.590	12.0	0.085	32.5	0.037	53.0	0.065	73.5	0.065
-7.5	0.042	3.4	0.528	12.5	0.053	33.0	0.030	53.5	0.068	74.0	0.061
-7.0	0.094	3.6	0.466	13.0	0.020	33.5	0.021	54.0	0.069	74.5	0.058
-6.5	0.163	3.8	0.405	13.5	0.012	34.0	0.012	54.5	0.069	75.0	0.054
-6.0	0.228	4.0	0.345	14.0	0.034	34.5	0.018	55.0	0.068	75.5	0.051
-5.5	0.278	4.2	0.288	14.5	0.047	35.0	0.030	55.5	0.067	76.0	0.047
-5.0	0.302	4.4	0.235	15.0	0.049	35.5	0.043	56.0	0.065	76.5	0.043
-4.5	0.293	4.6	0.188	15.5	0.040	36.0	0.053	56.5	0.063	77.0	0.040
-4.0	0.247	4.8	0.149	16.0	0.024	36.5	0.059	57.0	0.062	77.5	0.036
-3.5	0.164	5.0	0.121	16.5	0.006	37.0	0.060	57.5	0.060	78.0	0.033
-3.0	0.060	5.2	0.108	17.0	0.024	37.5	0.058	58.0	0.060	78.5	0.029
-2.8	0.055	5.4	0.108	17.5	0.045	38.0	0.052	58.5	0.059	79.0	0.026
-2.6	0.100	5.6	0.117	18.0	0.062	38.5	0.044	59.0	0.059	79.5	0.023
-2.4	0.160	5.8	0.130	18.5	0.073	39.0	0.036	59.5	0.058	80.0	0.021
-2.2	0.226	6.0	0.142	19.0	0.075	39.5	0.032	60.0	0.058	80.5	0.018
-2.0	0.295	6.2	0.151	19.5	0.070	40.0	0.034	60.5	0.056	81.0	0.016
-1.8	0.365	6.4	0.157	20.0	0.060	40.5	0.040	61.0	0.054	81.5	0.014
-1.6	0.436	6.6	0.159	20.5	0.047	41.0	0.048	61.5	0.052	82.0	0.012
-1.4	0.506	6.8	0.156	21.0	0.038	41.5	0.055	62.0	0.050	82.5	0.010
-1.2	0.575	7.0	0.150	21.5	0.037	42.0	0.059	62.5	0.047	83.0	0.009
-1.0	0.641	7.2	0.140	22.0	0.042	42.5	0.061	63.0	0.045	83.5	0.007
-0.8	0.704	7.4	0.127	22.5	0.047	43.0	0.061	63.5	0.043	84.0	0.006
-0.6	0.763	7.6	0.112	23.0	0.048	43.5	0.058	64.0	0.043	84.5	0.005
-0.4	0.816	7.8	0.094	23.5	0.044	44.0	0.055	64.5	0.044	85.0	0.004
-0.2	0.864	8.0	0.075	24.0	0.038	44.5	0.052	65.0	0.046	85.5	0.003
0.0	0.905	8.2	0.055	24.5	0.036	45.0	0.051	65.5	0.050	86.0	0.002
0.2	0.939	8.4	0.035	25.0	0.042	45.5	0.051	66.0	0.053	86.5	0.002
0.4	0.966	8.6	0.020	25.5	0.054	46.0	0.052	66.5	0.057	87.0	0.001
0.6	0.986	8.8	0.023	26.0	0.068	46.5	0.054	67.0	0.062	87.5	0.001
0.8	0.997	9.0	0.038	26.5	0.078	47.0	0.055	67.5	0.065	88.0	0.001
1.0	1.000	9.2	0.056	27.0	0.084	47.5	0.056	68.0	0.069	88.5	0.000
1.2	0.995	9.4	0.072	27.5	0.084	48.0	0.056	68.5	0.072	89.0	0.000
1.4	0.983	9.6	0.087	28.0	0.077	48.5	0.054	69.0	0.074	89.5	0.000
1.6	0.962	9.8	0.094	28.5	0.065	49.0	0.052	69.5	0.075	90.0	0.000
1.8	0.935	10.0	0.105	29.0	0.049	49.5	0.050	70.0	0.076		
2.0	0.900	10.2	0.114	29.5	0.031	50.0	0.049	70.5	0.076		
2.2	0.860	10.4	0.121	30.0	0.015	50.5	0.049	71.0	0.075		

Dielectric

Proposal Number		Revision:	1
Date	5-Aug-14		
Call Letters	WPXA	Channel	31
Location	Rome, GA		
Customer	Ion		
Antenna Type	TFU-14JTH-R 6T180 (SP)		

AZIMUTH PATTERN

Gain	1.80	(2.55 dB)	0	Frequency	575.00 MHz
Calculated / Measured	Calculated			Drawing #	TFU-6T180-D31



Dielectric

Proposal Number		Revision:	1
Date	5-Aug-14		
Call Letters	WPXA	Channel	31
Location	Rome, GA		
Customer	Ion		
Antenna Type	TFU-14JTH-R 6T180 (SP)		

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **TFU-6T180-D31**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.857	45	0.789	90	0.474	135	0.990	180	0.576	225	0.644	270	0.962	315	0.447
1	0.870	46	0.775	91	0.482	136	0.994	181	0.564	226	0.658	271	0.953	316	0.443
2	0.882	47	0.760	92	0.490	137	0.996	182	0.552	227	0.672	272	0.945	317	0.441
3	0.894	48	0.746	93	0.499	138	0.998	183	0.540	228	0.687	273	0.936	318	0.438
4	0.905	49	0.731	94	0.508	139	0.999	184	0.529	229	0.702	274	0.927	319	0.438
5	0.916	50	0.716	95	0.519	140	1.000	185	0.519	230	0.716	275	0.916	320	0.437
6	0.927	51	0.702	96	0.529	141	0.999	186	0.508	231	0.731	276	0.905	321	0.438
7	0.936	52	0.687	97	0.540	142	0.998	187	0.499	232	0.746	277	0.894	322	0.438
8	0.945	53	0.672	98	0.552	143	0.996	188	0.490	233	0.760	278	0.882	323	0.441
9	0.953	54	0.658	99	0.564	144	0.994	189	0.482	234	0.775	279	0.870	324	0.443
10	0.962	55	0.644	100	0.576	145	0.990	190	0.474	235	0.789	280	0.857	325	0.447
11	0.968	56	0.630	101	0.589	146	0.986	191	0.468	236	0.803	281	0.844	326	0.451
12	0.975	57	0.616	102	0.602	147	0.981	192	0.461	237	0.817	282	0.831	327	0.456
13	0.981	58	0.602	103	0.616	148	0.975	193	0.456	238	0.831	283	0.817	328	0.461
14	0.986	59	0.589	104	0.630	149	0.968	194	0.451	239	0.844	284	0.803	329	0.468
15	0.990	60	0.576	105	0.644	150	0.962	195	0.447	240	0.857	285	0.789	330	0.474
16	0.994	61	0.564	106	0.658	151	0.953	196	0.443	241	0.870	286	0.775	331	0.482
17	0.996	62	0.552	107	0.672	152	0.945	197	0.441	242	0.882	287	0.760	332	0.490
18	0.998	63	0.540	108	0.687	153	0.936	198	0.438	243	0.894	288	0.746	333	0.499
19	0.999	64	0.529	109	0.702	154	0.927	199	0.438	244	0.905	289	0.731	334	0.508
20	1.000	65	0.519	110	0.716	155	0.916	200	0.437	245	0.916	290	0.716	335	0.519
21	0.999	66	0.508	111	0.731	156	0.905	201	0.438	246	0.927	291	0.702	336	0.529
22	0.998	67	0.499	112	0.746	157	0.894	202	0.438	247	0.936	292	0.687	337	0.540
23	0.996	68	0.490	113	0.760	158	0.882	203	0.441	248	0.945	293	0.672	338	0.552
24	0.994	69	0.482	114	0.775	159	0.870	204	0.443	249	0.953	294	0.658	339	0.564
25	0.990	70	0.474	115	0.789	160	0.857	205	0.447	250	0.962	295	0.644	340	0.576
26	0.986	71	0.468	116	0.803	161	0.844	206	0.451	251	0.968	296	0.630	341	0.589
27	0.981	72	0.461	117	0.817	162	0.831	207	0.456	252	0.975	297	0.616	342	0.602
28	0.975	73	0.456	118	0.831	163	0.817	208	0.461	253	0.981	298	0.602	343	0.616
29	0.968	74	0.451	119	0.844	164	0.803	209	0.468	254	0.986	299	0.589	344	0.630
30	0.962	75	0.447	120	0.857	165	0.789	210	0.474	255	0.990	300	0.576	345	0.644
31	0.953	76	0.443	121	0.870	166	0.775	211	0.482	256	0.994	301	0.564	346	0.658
32	0.945	77	0.441	122	0.882	167	0.760	212	0.490	257	0.996	302	0.552	347	0.672
33	0.936	78	0.438	123	0.894	168	0.746	213	0.499	258	0.998	303	0.540	348	0.687
34	0.927	79	0.438	124	0.905	169	0.731	214	0.508	259	0.999	304	0.529	349	0.702
35	0.916	80	0.437	125	0.916	170	0.716	215	0.519	260	1.000	305	0.519	350	0.716
36	0.905	81	0.438	126	0.927	171	0.702	216	0.529	261	0.999	306	0.508	351	0.731
37	0.894	82	0.438	127	0.936	172	0.687	217	0.540	262	0.998	307	0.499	352	0.746
38	0.882	83	0.441	128	0.945	173	0.672	218	0.552	263	0.996	308	0.490	353	0.760
39	0.870	84	0.443	129	0.953	174	0.658	219	0.564	264	0.994	309	0.482	354	0.775
40	0.857	85	0.447	130	0.962	175	0.644	220	0.576	265	0.990	310	0.474	355	0.789
41	0.844	86	0.451	131	0.968	176	0.630	221	0.589	266	0.986	311	0.468	356	0.803
42	0.831	87	0.456	132	0.975	177	0.616	222	0.602	267	0.981	312	0.461	357	0.817
43	0.817	88	0.461	133	0.981	178	0.602	223	0.616	268	0.975	313	0.456	358	0.831
44	0.803	89	0.468	134	0.986	179	0.589	224	0.630	269	0.968	314	0.451	359	0.844