

Date  
Call Letters  
Location  
Customer  
Antenna Type

**23 Oct 2017**

Channel **8**

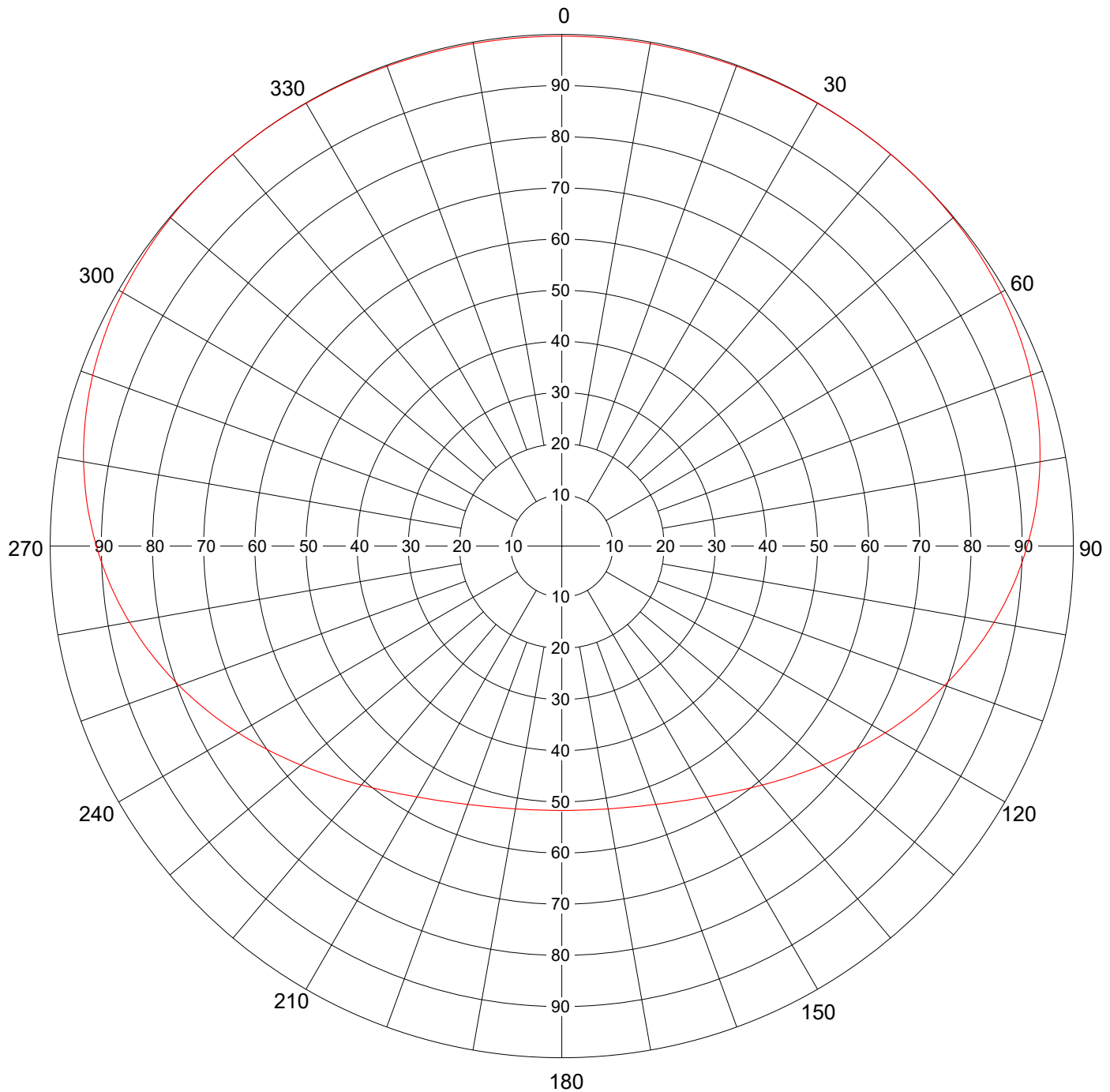
## AZIMUTH PATTERN

Gain  
Calculated / Measured

**1.4 (1.46 dB)**  
**Calculated**

Frequency  
Drawing #

**183 MHz**  
**THV-C140**



Remarks:



Date

23 Oct 2017

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## TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing # THV-C140

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.997	45	1.000	90	0.910	135	0.636	180	0.517	225	0.636	270	0.910	315	1.000
1	0.997	46	0.999	91	0.905	136	0.631	181	0.517	226	0.642	271	0.914	316	1.000
2	0.997	47	0.999	92	0.900	137	0.625	182	0.517	227	0.648	272	0.919	317	1.000
3	0.997	48	0.999	93	0.895	138	0.620	183	0.517	228	0.654	273	0.923	318	1.000
4	0.997	49	0.999	94	0.890	139	0.615	184	0.517	229	0.660	274	0.927	319	1.000
5	0.997	50	0.998	95	0.885	140	0.610	185	0.518	230	0.666	275	0.931	320	1.000
6	0.997	51	0.998	96	0.880	141	0.605	186	0.518	231	0.672	276	0.935	321	1.000
7	0.997	52	0.997	97	0.875	142	0.600	187	0.519	232	0.678	277	0.939	322	1.000
8	0.997	53	0.997	98	0.869	143	0.595	188	0.520	233	0.685	278	0.942	323	1.000
9	0.997	54	0.996	99	0.864	144	0.590	189	0.521	234	0.691	279	0.946	324	1.000
10	0.997	55	0.995	100	0.858	145	0.586	190	0.521	235	0.697	280	0.949	325	1.000
11	0.997	56	0.995	101	0.852	146	0.582	191	0.523	236	0.704	281	0.952	326	1.000
12	0.997	57	0.994	102	0.846	147	0.578	192	0.524	237	0.710	282	0.956	327	1.000
13	0.997	58	0.993	103	0.840	148	0.574	193	0.525	238	0.717	283	0.958	328	1.000
14	0.997	59	0.992	104	0.834	149	0.570	194	0.526	239	0.724	284	0.961	329	0.999
15	0.997	60	0.991	105	0.828	150	0.566	195	0.528	240	0.730	285	0.964	330	0.999
16	0.998	61	0.990	106	0.822	151	0.563	196	0.529	241	0.737	286	0.967	331	0.999
17	0.998	62	0.989	107	0.816	152	0.559	197	0.531	242	0.743	287	0.969	332	0.999
18	0.998	63	0.988	108	0.809	153	0.556	198	0.533	243	0.750	288	0.971	333	0.999
19	0.998	64	0.986	109	0.803	154	0.553	199	0.535	244	0.757	289	0.974	334	0.999
20	0.998	65	0.985	110	0.796	155	0.550	200	0.537	245	0.763	290	0.976	335	0.999
21	0.998	66	0.983	111	0.790	156	0.547	201	0.540	246	0.770	291	0.978	336	0.999
22	0.998	67	0.981	112	0.783	157	0.544	202	0.542	247	0.777	292	0.980	337	0.998
23	0.998	68	0.980	113	0.777	158	0.542	203	0.544	248	0.783	293	0.981	338	0.998
24	0.999	69	0.978	114	0.770	159	0.540	204	0.547	249	0.790	294	0.983	339	0.998
25	0.999	70	0.976	115	0.763	160	0.537	205	0.550	250	0.796	295	0.985	340	0.998
26	0.999	71	0.974	116	0.757	161	0.535	206	0.553	251	0.803	296	0.986	341	0.998
27	0.999	72	0.971	117	0.750	162	0.533	207	0.556	252	0.809	297	0.988	342	0.998
28	0.999	73	0.969	118	0.743	163	0.531	208	0.559	253	0.816	298	0.989	343	0.998
29	0.999	74	0.967	119	0.737	164	0.529	209	0.563	254	0.822	299	0.990	344	0.998
30	0.999	75	0.964	120	0.730	165	0.528	210	0.566	255	0.828	300	0.991	345	0.997
31	0.999	76	0.961	121	0.724	166	0.526	211	0.570	256	0.834	301	0.992	346	0.997
32	1.000	77	0.958	122	0.717	167	0.525	212	0.574	257	0.840	302	0.993	347	0.997
33	1.000	78	0.956	123	0.710	168	0.524	213	0.578	258	0.846	303	0.994	348	0.997
34	1.000	79	0.952	124	0.704	169	0.523	214	0.582	259	0.852	304	0.995	349	0.997
35	1.000	80	0.949	125	0.697	170	0.521	215	0.586	260	0.858	305	0.995	350	0.997
36	1.000	81	0.946	126	0.691	171	0.521	216	0.590	261	0.864	306	0.996	351	0.997
37	1.000	82	0.942	127	0.685	172	0.520	217	0.595	262	0.869	307	0.997	352	0.997
38	1.000	83	0.939	128	0.678	173	0.519	218	0.600	263	0.875	308	0.997	353	0.997
39	1.000	84	0.935	129	0.672	174	0.518	219	0.605	264	0.880	309	0.998	354	0.997
40	1.000	85	0.931	130	0.666	175	0.518	220	0.610	265	0.885	310	0.998	355	0.997
41	1.000	86	0.927	131	0.660	176	0.517	221	0.615	266	0.890	311	0.999	356	0.997
42	1.000	87	0.923	132	0.654	177	0.517	222	0.620	267	0.895	312	0.999	357	0.997
43	1.000	88	0.919	133	0.648	178	0.517	223	0.625	268	0.900	313	0.999	358	0.997
44	1.000	89	0.914	134	0.642	179	0.517	224	0.631	269	0.905	314	0.999	359	0.997

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## ELEVATION PATTERN

RMS Gain at Main Lobe

**12.0 (10.79 dB)**

Beam Tilt

**0.50 Degrees**

RMS Gain at Horizontal

**11.3 (10.53 dB)**

Frequency

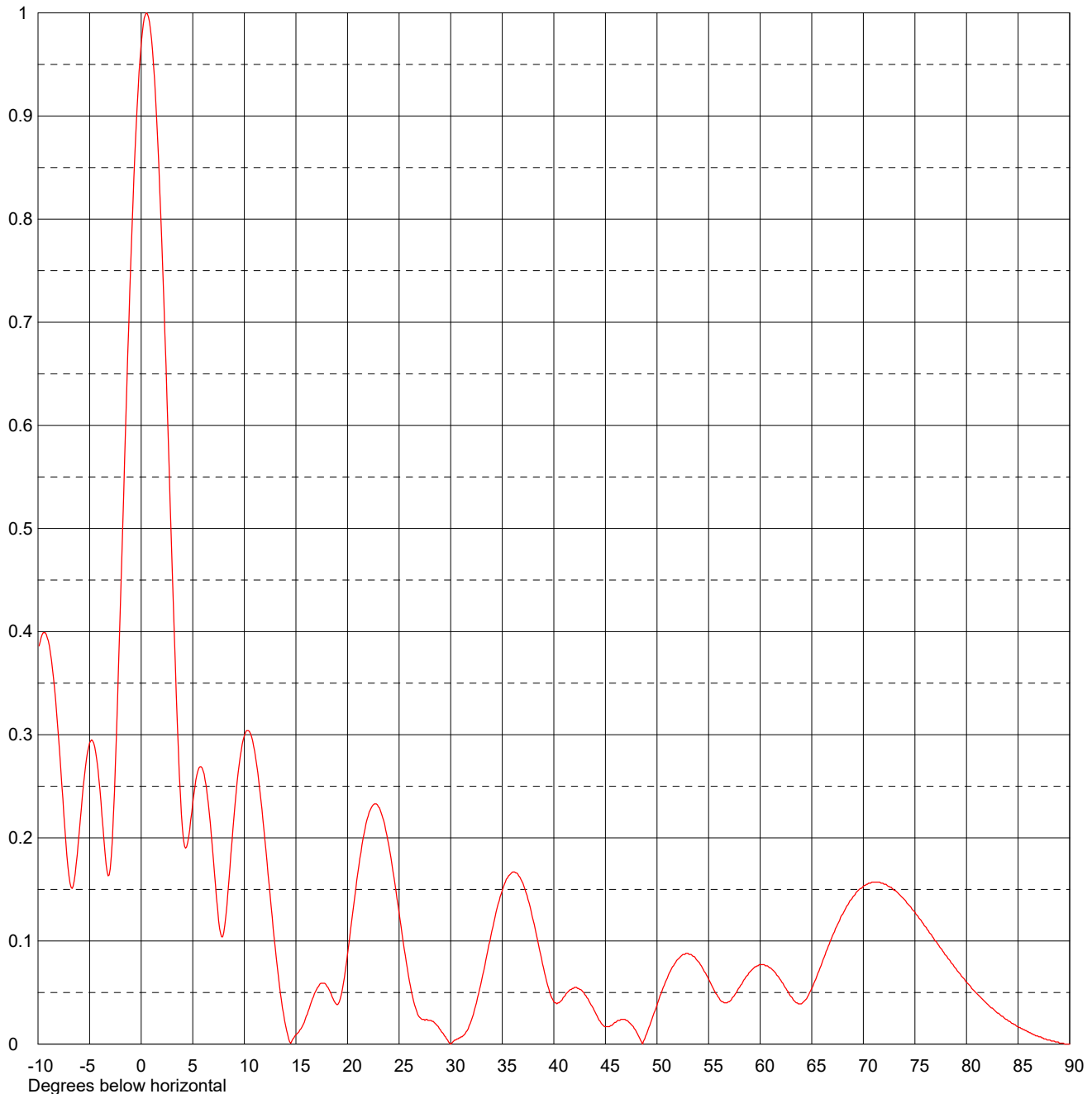
**183.00 MHz**

Calculated / Measured

**Calculated**

Drawing #

**12S120050-90**



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## TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing # **12S120050-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.380	2.4	0.658	10.6	0.301	30.5	0.004	51.0	0.064	71.5	0.157
-9.5	0.399	2.6	0.594	10.8	0.294	31.0	0.007	51.5	0.075	72.0	0.155
-9.0	0.391	2.8	0.528	11.0	0.284	31.5	0.012	52.0	0.082	72.5	0.153
-8.5	0.355	3.0	0.463	11.5	0.246	32.0	0.023	52.5	0.087	73.0	0.149
-8.0	0.296	3.2	0.399	12.0	0.197	32.5	0.040	53.0	0.088	73.5	0.145
-7.5	0.223	3.4	0.340	12.5	0.144	33.0	0.062	53.5	0.085	74.0	0.140
-7.0	0.163	3.6	0.286	13.0	0.093	33.5	0.086	54.0	0.080	74.5	0.134
-6.5	0.158	3.8	0.241	13.5	0.049	34.0	0.110	54.5	0.072	75.0	0.128
-6.0	0.206	4.0	0.209	14.0	0.018	34.5	0.132	55.0	0.063	75.5	0.121
-5.5	0.260	4.2	0.192	14.5	0.001	35.0	0.149	55.5	0.053	76.0	0.114
-5.0	0.292	4.4	0.191	15.0	0.009	35.5	0.161	56.0	0.045	76.5	0.107
-4.5	0.288	4.6	0.201	15.5	0.015	36.0	0.167	56.5	0.040	77.0	0.100
-4.0	0.247	4.8	0.217	16.0	0.027	36.5	0.165	57.0	0.041	77.5	0.093
-3.5	0.185	5.0	0.234	16.5	0.041	37.0	0.156	57.5	0.047	78.0	0.086
-3.0	0.170	5.2	0.249	17.0	0.053	37.5	0.140	58.0	0.055	78.5	0.079
-2.8	0.198	5.4	0.261	17.5	0.059	38.0	0.120	58.5	0.063	79.0	0.073
-2.6	0.244	5.6	0.268	18.0	0.056	38.5	0.097	59.0	0.070	79.5	0.066
-2.4	0.300	5.8	0.269	18.5	0.046	39.0	0.074	59.5	0.075	80.0	0.060
-2.2	0.364	6.0	0.265	19.0	0.038	39.5	0.054	60.0	0.077	80.5	0.054
-2.0	0.431	6.2	0.256	19.5	0.053	40.0	0.041	60.5	0.076	81.0	0.049
-1.8	0.500	6.4	0.242	20.0	0.087	40.5	0.040	61.0	0.074	81.5	0.044
-1.6	0.568	6.6	0.224	20.5	0.127	41.0	0.046	61.5	0.069	82.0	0.039
-1.4	0.636	6.8	0.203	21.0	0.166	41.5	0.052	62.0	0.062	82.5	0.035
-1.2	0.700	7.0	0.179	21.5	0.199	42.0	0.055	62.5	0.054	83.0	0.030
-1.0	0.760	7.2	0.154	22.0	0.221	42.5	0.053	63.0	0.046	83.5	0.027
-0.8	0.816	7.4	0.131	22.5	0.232	43.0	0.048	63.5	0.040	84.0	0.023
-0.6	0.865	7.6	0.112	23.0	0.230	43.5	0.040	64.0	0.039	84.5	0.020
-0.4	0.908	7.8	0.104	23.5	0.217	44.0	0.031	64.5	0.044	85.0	0.017
-0.2	0.943	8.0	0.108	24.0	0.193	44.5	0.022	65.0	0.054	85.5	0.014
0.0	0.970	8.2	0.124	24.5	0.162	45.0	0.017	65.5	0.066	86.0	0.012
0.2	0.989	8.4	0.146	25.0	0.127	45.5	0.018	66.0	0.079	86.5	0.009
0.4	0.998	8.6	0.171	25.5	0.092	46.0	0.021	66.5	0.092	87.0	0.007
0.6	0.999	8.8	0.197	26.0	0.061	46.5	0.024	67.0	0.105	87.5	0.005
0.8	0.991	9.0	0.221	26.5	0.038	47.0	0.023	67.5	0.116	88.0	0.004
1.0	0.975	9.2	0.244	27.0	0.026	47.5	0.019	68.0	0.126	88.5	0.003
1.2	0.950	9.4	0.263	27.5	0.023	48.0	0.012	68.5	0.135	89.0	0.001
1.4	0.917	9.6	0.279	28.0	0.023	48.5	0.002	69.0	0.143	89.5	0.000
1.6	0.876	9.8	0.291	28.5	0.020	49.0	0.010	69.5	0.149	90.0	0.000
1.8	0.829	10.0	0.299	29.0	0.014	49.5	0.024	70.0	0.153		
2.0	0.777	10.2	0.304	29.5	0.007	50.0	0.038	70.5	0.156		
2.2	0.719	10.4	0.304	30.0	0.000	50.5	0.052	71.0	0.157		

Remarks: