

AZIMUTH PATTERN Horizontal Polarization

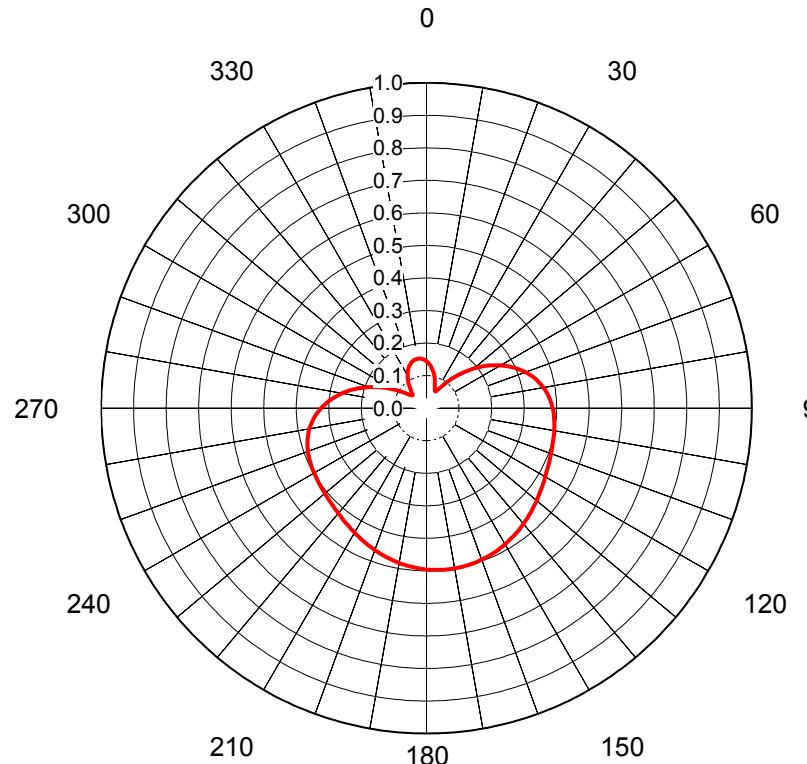
Proposal No. C-70384-3
 Date 13-Mar-19
 Call Letters WVER 10
 Frequency 195 MHz
 Antenna Type THV-6A10/VP-R C160

 Gain 1.59 (2.01dB)
 Calculated

 Directional Drawing # THV-C160-1890

Deg	Value																				
0	0.332	36	0.486	72	0.808	108	0.978	144	0.999	180	0.996	216	0.998	252	0.909	288	0.632	324	0.363		
1	0.333	37	0.494	73	0.815	109	0.980	145	0.999	181	0.996	217	0.997	253	0.904	289	0.623	325	0.359		
2	0.334	38	0.503	74	0.823	110	0.982	146	0.998	182	0.996	218	0.996	254	0.899	290	0.613	326	0.356		
3	0.335	39	0.512	75	0.830	111	0.984	147	0.998	183	0.996	219	0.996	255	0.893	291	0.604	327	0.353		
4	0.336	40	0.520	76	0.837	112	0.985	148	0.998	184	0.996	220	0.995	256	0.888	292	0.595	328	0.350		
5	0.337	41	0.530	77	0.844	113	0.987	149	0.998	185	0.996	221	0.994	257	0.882	293	0.585	329	0.348		
6	0.338	42	0.539	78	0.851	114	0.988	150	0.998	186	0.997	222	0.993	258	0.876	294	0.576	330	0.346		
7	0.340	43	0.548	79	0.857	115	0.990	151	0.997	187	0.997	223	0.992	259	0.870	295	0.566	331	0.344		
8	0.342	44	0.557	80	0.864	116	0.991	152	0.997	188	0.997	224	0.991	260	0.864	296	0.557	332	0.342		
9	0.344	45	0.566	81	0.870	117	0.992	153	0.997	189	0.997	225	0.990	261	0.857	297	0.548	333	0.340		
10	0.346	46	0.576	82	0.876	118	0.993	154	0.997	190	0.998	226	0.988	262	0.851	298	0.539	334	0.338		
11	0.348	47	0.585	83	0.882	119	0.994	155	0.996	191	0.998	227	0.987	263	0.844	299	0.530	335	0.337		
12	0.350	48	0.595	84	0.888	120	0.995	156	0.996	192	0.998	228	0.985	264	0.837	300	0.520	336	0.336		
13	0.353	49	0.604	85	0.893	121	0.996	157	0.996	193	0.998	229	0.984	265	0.830	301	0.512	337	0.335		
14	0.356	50	0.613	86	0.899	122	0.996	158	0.996	194	0.998	230	0.982	266	0.823	302	0.503	338	0.334		
15	0.359	51	0.623	87	0.904	123	0.997	159	0.996	195	0.999	231	0.980	267	0.815	303	0.494	339	0.333		
16	0.363	52	0.632	88	0.909	124	0.998	160	0.996	196	0.999	232	0.978	268	0.808	304	0.486	340	0.332		
17	0.367	53	0.642	89	0.914	125	0.998	161	0.995	197	0.999	233	0.976	269	0.800	305	0.478	341	0.332		
18	0.370	54	0.651	90	0.919	126	0.998	162	0.995	198	0.999	234	0.974	270	0.792	306	0.469	342	0.331		
19	0.375	55	0.661	91	0.923	127	0.999	163	0.995	199	0.999	235	0.971	271	0.784	307	0.462	343	0.331		
20	0.379	56	0.670	92	0.928	128	0.999	164	0.995	200	1.000	236	0.969	272	0.776	308	0.454	344	0.331		
21	0.384	57	0.679	93	0.932	129	0.999	165	0.995	201	1.000	237	0.966	273	0.768	309	0.446	345	0.330		
22	0.389	58	0.689	94	0.936	130	1.000	166	0.995	202	1.000	238	0.964	274	0.760	310	0.439	346	0.330		
23	0.395	59	0.698	95	0.940	131	1.000	167	0.995	203	1.000	239	0.961	275	0.751	311	0.432	347	0.330		
24	0.400	60	0.707	96	0.944	132	1.000	168	0.995	204	1.000	240	0.958	276	0.742	312	0.425	348	0.330		
25	0.406	61	0.716	97	0.948	133	1.000	169	0.995	205	1.000	241	0.954	277	0.734	313	0.418	349	0.330		
26	0.412	62	0.725	98	0.951	134	1.000	170	0.995	206	1.000	242	0.951	278	0.725	314	0.412	350	0.330		
27	0.418	63	0.734	99	0.954	135	1.000	171	0.995	207	1.000	243	0.948	279	0.716	315	0.406	351	0.330		
28	0.425	64	0.742	100	0.958	136	1.000	172	0.995	208	1.000	244	0.944	280	0.707	316	0.400	352	0.330		
29	0.432	65	0.751	101	0.961	137	1.000	173	0.995	209	1.000	245	0.940	281	0.698	317	0.395	353	0.330		
30	0.439	66	0.760	102	0.964	138	1.000	174	0.995	210	1.000	246	0.936	282	0.689	318	0.389	354	0.330		
31	0.446	67	0.768	103	0.966	139	1.000	175	0.995	211	0.999	247	0.932	283	0.679	319	0.384	355	0.330		
32	0.454	68	0.776	104	0.969	140	1.000	176	0.995	212	0.999	248	0.928	284	0.670	320	0.379	356	0.331		
33	0.462	69	0.784	105	0.971	141	0.999	177	0.995	213	0.999	249	0.923	285	0.661	321	0.375	357	0.331		
34	0.469	70	0.792	106	0.974	142	0.999	178	0.995	214	0.998	250	0.919	286	0.651	322	0.370	358	0.331		
35	0.478	71	0.800	107	0.976	143	0.999	179	0.995	215	0.998	251	0.914	287	0.642	323	0.367	359	0.332		

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AZIMUTH PATTERN Vertical Polarization

Proposal No. C-70384-3
 Date 13-Mar-19
 Call Letters WVER 10
 Frequency 195 MHz
 Antenna Type THV-6A10/VP-R C160
 Gain 2.16 (3.35dB)
 Calculated
 Directional Drawing # THV-C160V-D10

Deg	Value																		
0	0.144	36	0.087	72	0.334	108	0.405	144	0.472	180	0.496	216	0.429	252	0.385	288	0.205	324	0.093
1	0.142	37	0.093	73	0.338	109	0.406	145	0.474	181	0.495	217	0.427	253	0.383	289	0.197	325	0.097
2	0.140	38	0.100	74	0.343	110	0.408	146	0.476	182	0.494	218	0.425	254	0.381	290	0.189	326	0.101
3	0.138	39	0.106	75	0.347	111	0.409	147	0.478	183	0.493	219	0.423	255	0.379	291	0.181	327	0.105
4	0.135	40	0.113	76	0.351	112	0.410	148	0.480	184	0.492	220	0.422	256	0.376	292	0.174	328	0.109
5	0.132	41	0.121	77	0.355	113	0.411	149	0.481	185	0.490	221	0.420	257	0.374	293	0.166	329	0.113
6	0.129	42	0.128	78	0.358	114	0.412	150	0.483	186	0.489	222	0.418	258	0.371	294	0.158	330	0.116
7	0.126	43	0.135	79	0.362	115	0.414	151	0.485	187	0.488	223	0.417	259	0.368	295	0.151	331	0.120
8	0.123	44	0.143	80	0.365	116	0.415	152	0.486	188	0.486	224	0.415	260	0.365	296	0.143	332	0.123
9	0.120	45	0.151	81	0.368	117	0.417	153	0.488	189	0.485	225	0.414	261	0.362	297	0.135	333	0.126
10	0.116	46	0.158	82	0.371	118	0.418	154	0.489	190	0.483	226	0.412	262	0.358	298	0.128	334	0.129
11	0.113	47	0.166	83	0.374	119	0.420	155	0.490	191	0.481	227	0.411	263	0.355	299	0.121	335	0.132
12	0.109	48	0.174	84	0.376	120	0.422	156	0.492	192	0.480	228	0.410	264	0.351	300	0.113	336	0.135
13	0.105	49	0.181	85	0.379	121	0.423	157	0.493	193	0.478	229	0.409	265	0.347	301	0.106	337	0.138
14	0.101	50	0.189	86	0.381	122	0.425	158	0.494	194	0.476	230	0.408	266	0.343	302	0.100	338	0.140
15	0.097	51	0.197	87	0.383	123	0.427	159	0.495	195	0.474	231	0.406	267	0.338	303	0.093	339	0.142
16	0.093	52	0.205	88	0.385	124	0.429	160	0.496	196	0.472	232	0.405	268	0.334	304	0.087	340	0.144
17	0.088	53	0.212	89	0.386	125	0.431	161	0.496	197	0.470	233	0.405	269	0.329	305	0.081	341	0.146
18	0.084	54	0.220	90	0.388	126	0.433	162	0.497	198	0.468	234	0.404	270	0.324	306	0.076	342	0.148
19	0.080	55	0.227	91	0.389	127	0.435	163	0.498	199	0.466	235	0.403	271	0.318	307	0.071	343	0.149
20	0.076	56	0.235	92	0.391	128	0.437	164	0.498	200	0.464	236	0.402	272	0.313	308	0.067	344	0.151
21	0.072	57	0.242	93	0.392	129	0.440	165	0.499	201	0.462	237	0.401	273	0.307	309	0.064	345	0.152
22	0.069	58	0.249	94	0.393	130	0.442	166	0.499	202	0.460	238	0.400	274	0.302	310	0.061	346	0.153
23	0.066	59	0.256	95	0.394	131	0.444	167	0.500	203	0.457	239	0.399	275	0.296	311	0.059	347	0.153
24	0.063	60	0.263	96	0.395	132	0.446	168	0.500	204	0.455	240	0.399	276	0.289	312	0.058	348	0.154
25	0.061	61	0.270	97	0.396	133	0.449	169	0.500	205	0.453	241	0.398	277	0.283	313	0.058	349	0.154
26	0.059	62	0.277	98	0.397	134	0.451	170	0.500	206	0.451	242	0.397	278	0.277	314	0.059	350	0.154
27	0.058	63	0.283	99	0.398	135	0.453	171	0.500	207	0.449	243	0.396	279	0.270	315	0.061	351	0.154
28	0.058	64	0.289	100	0.399	136	0.455	172	0.500	208	0.446	244	0.395	280	0.263	316	0.063	352	0.154
29	0.059	65	0.296	101	0.399	137	0.457	173	0.500	209	0.444	245	0.394	281	0.256	317	0.066	353	0.153
30	0.061	66	0.302	102	0.400	138	0.460	174	0.499	210	0.442	246	0.393	282	0.249	318	0.069	354	0.153
31	0.064	67	0.307	103	0.401	139	0.462	175	0.499	211	0.440	247	0.392	283	0.242	319	0.072	355	0.152
32	0.067	68	0.313	104	0.402	140	0.464	176	0.498	212	0.437	248	0.391	284	0.235	320	0.076	356	0.151
33	0.071	69	0.318	105	0.403	141	0.466	177	0.498	213	0.435	249	0.389	285	0.227	321	0.080	357	0.149
34	0.076	70	0.324	106	0.404	142	0.468	178	0.497	214	0.433	250	0.388	286	0.220	322	0.084	358	0.148
35	0.081	71	0.329	107	0.405	143	0.470	179	0.496	215	0.431	251	0.386	287	0.212	323	0.088	359	0.146

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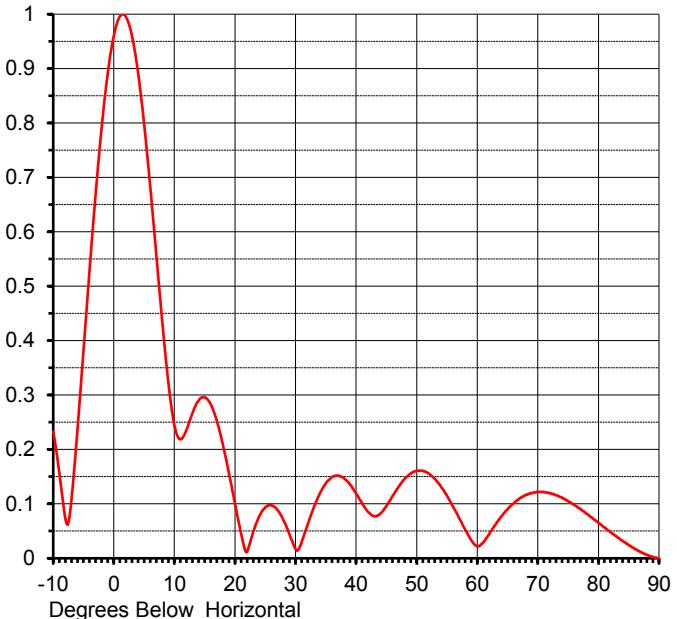
ELEVATION PATTERN

Proposal No. C-70384-3
 Date 13-Mar-19
 Call Letters WVER 10
 Frequency 195 MHz
 Antenna Type THV-6A10/VP-R C160

RMS Directivity at Main Lobe
 RMS Directivity at Horizontal

6.00 (7.78 dB)
5.50 (7.40 dB)
 Calculated

Beam Tilt 1.50 deg
 Drawing Number 06V060150



Angle	Field								
-10.0	0.233	10.0	0.245	30.0	0.017	50.0	0.161	70.0	0.122
-9.0	0.158	11.0	0.219	31.0	0.029	51.0	0.161	71.0	0.122
-8.0	0.073	12.0	0.236	32.0	0.062	52.0	0.156	72.0	0.120
-7.0	0.106	13.0	0.267	33.0	0.093	53.0	0.146	73.0	0.116
-6.0	0.236	14.0	0.290	34.0	0.119	54.0	0.132	74.0	0.111
-5.0	0.382	15.0	0.296	35.0	0.138	55.0	0.115	75.0	0.105
-4.0	0.530	16.0	0.283	36.0	0.149	56.0	0.095	76.0	0.098
-3.0	0.669	17.0	0.253	37.0	0.152	57.0	0.074	77.0	0.091
-2.0	0.792	18.0	0.209	38.0	0.147	58.0	0.053	78.0	0.082
-1.0	0.891	19.0	0.157	39.0	0.136	59.0	0.033	79.0	0.074
0.0	0.960	20.0	0.101	40.0	0.119	60.0	0.022	80.0	0.065
1.0	0.996	21.0	0.046	41.0	0.101	61.0	0.029	81.0	0.057
2.0	0.995	22.0	0.012	42.0	0.085	62.0	0.045	82.0	0.048
3.0	0.960	23.0	0.048	43.0	0.077	63.0	0.062	83.0	0.040
4.0	0.893	24.0	0.077	44.0	0.082	64.0	0.077	84.0	0.032
5.0	0.799	25.0	0.094	45.0	0.096	65.0	0.090	85.0	0.024
6.0	0.685	26.0	0.097	46.0	0.114	66.0	0.101	86.0	0.018
7.0	0.560	27.0	0.089	47.0	0.131	67.0	0.110	87.0	0.011
8.0	0.435	28.0	0.070	48.0	0.146	68.0	0.116	88.0	0.006
9.0	0.324	29.0	0.044	49.0	0.156	69.0	0.120	89.0	0.002
								90.0	0.000

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