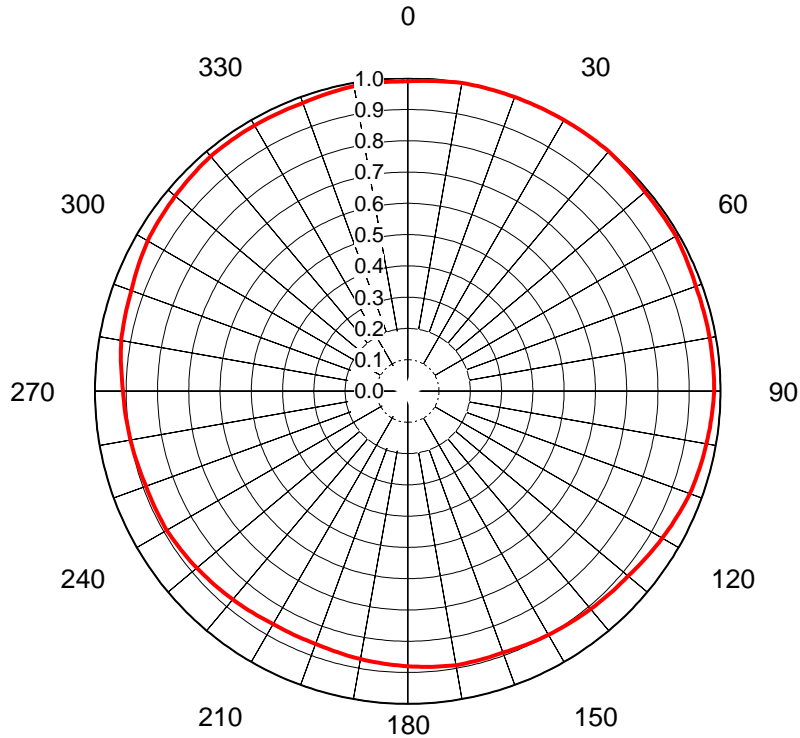


AZIMUTH PATTERN Horizontal Polarization



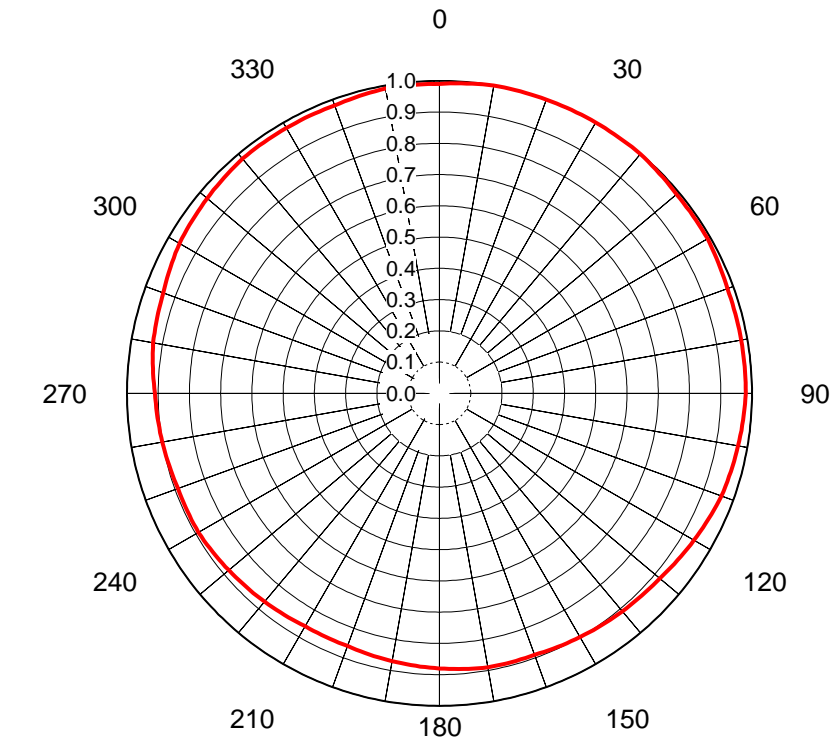
Proposal No. **C-71634-1**
 Date **7-Mar-22**
 Call Letters **KABC**
 Channel **7**
 Frequency **177 MHz**
 Antenna Type **THV-8A7/VP-R O4**
 Gain **1.13 (0.53dB)**
 Calculated
 Circularity **+/- 1.0 dB**

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.990	36	1.000	72	0.980	108	0.962	144	0.906	180	0.880	216	0.866	252	0.892	288	0.938
1	0.991	37	1.000	73	0.980	109	0.961	145	0.905	181	0.879	217	0.867	253	0.893	289	0.939
2	0.992	38	1.000	74	0.980	110	0.960	146	0.904	182	0.878	218	0.868	254	0.894	290	0.940
3	0.993	39	1.000	75	0.980	111	0.958	147	0.903	183	0.877	219	0.869	255	0.895	291	0.942
4	0.994	40	1.000	76	0.980	112	0.956	148	0.902	184	0.876	220	0.870	256	0.896	292	0.944
5	0.995	41	0.999	77	0.980	113	0.954	149	0.901	185	0.875	221	0.871	257	0.897	293	0.946
6	0.996	42	0.998	78	0.980	114	0.952	150	0.900	186	0.874	222	0.872	258	0.898	294	0.948
7	0.997	43	0.997	79	0.980	115	0.950	151	0.899	187	0.873	223	0.873	259	0.899	295	0.950
8	0.998	44	0.996	80	0.980	116	0.948	152	0.898	188	0.872	224	0.874	260	0.900	296	0.952
9	0.999	45	0.995	81	0.980	117	0.946	153	0.897	189	0.871	225	0.875	261	0.901	297	0.954
10	1.000	46	0.994	82	0.980	118	0.944	154	0.896	190	0.870	226	0.876	262	0.902	298	0.956
11	1.000	47	0.993	83	0.980	119	0.942	155	0.895	191	0.869	227	0.877	263	0.903	299	0.958
12	1.000	48	0.992	84	0.980	120	0.940	156	0.894	192	0.868	228	0.878	264	0.904	300	0.960
13	1.000	49	0.991	85	0.980	121	0.938	157	0.893	193	0.867	229	0.879	265	0.905	301	0.961
14	1.000	50	0.990	86	0.980	122	0.936	158	0.892	194	0.866	230	0.880	266	0.906	302	0.962
15	1.000	51	0.990	87	0.980	123	0.934	159	0.891	195	0.865	231	0.881	267	0.907	303	0.963
16	1.000	52	0.990	88	0.980	124	0.932	160	0.890	196	0.864	232	0.882	268	0.908	304	0.964
17	1.000	53	0.990	89	0.980	125	0.930	161	0.890	197	0.863	233	0.883	269	0.909	305	0.965
18	1.000	54	0.990	90	0.980	126	0.928	162	0.890	198	0.862	234	0.884	270	0.910	306	0.966
19	1.000	55	0.990	91	0.979	127	0.926	163	0.890	199	0.861	235	0.885	271	0.912	307	0.967
20	1.000	56	0.990	92	0.978	128	0.924	164	0.890	200	0.860	236	0.886	272	0.914	308	0.968
21	1.000	57	0.990	93	0.977	129	0.922	165	0.890	201	0.860	237	0.887	273	0.916	309	0.969
22	1.000	58	0.990	94	0.976	130	0.920	166	0.890	202	0.860	238	0.888	274	0.918	310	0.970
23	1.000	59	0.990	95	0.975	131	0.919	167	0.890	203	0.860	239	0.889	275	0.920	311	0.971
24	1.000	60	0.990	96	0.974	132	0.918	168	0.890	204	0.860	240	0.890	276	0.922	312	0.972
25	1.000	61	0.989	97	0.973	133	0.917	169	0.890	205	0.860	241	0.890	277	0.924	313	0.973
26	1.000	62	0.988	98	0.972	134	0.916	170	0.890	206	0.860	242	0.890	278	0.926	314	0.974
27	1.000	63	0.987	99	0.971	135	0.915	171	0.889	207	0.860	243	0.890	279	0.928	315	0.975
28	1.000	64	0.986	100	0.970	136	0.914	172	0.888	208	0.860	244	0.890	280	0.930	316	0.976
29	1.000	65	0.985	101	0.969	137	0.913	173	0.887	209	0.860	245	0.890	281	0.931	317	0.977
30	1.000	66	0.984	102	0.968	138	0.912	174	0.886	210	0.860	246	0.890	282	0.932	318	0.978
31	1.000	67	0.983	103	0.967	139	0.911	175	0.885	211	0.861	247	0.890	283	0.933	319	0.979
32	1.000	68	0.982	104	0.966	140	0.910	176	0.884	212	0.862	248	0.890	284	0.934	320	0.980
33	1.000	69	0.981	105	0.965	141	0.909	177	0.883	213	0.863	249	0.890	285	0.935	321	0.980
34	1.000	70	0.980	106	0.964	142	0.908	178	0.882	214	0.864	250	0.890	286	0.936	322	0.980
35	1.000	71	0.980	107	0.963	143	0.907	179	0.881	215	0.865	251	0.891	287	0.937	323	0.980

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AZIMUTH PATTERN Vertical Polarization

Proposal No. **C-71634-1**
 Date **7-Mar-22**
 Call Letters **KABC**
 Channel **7**
 Frequency **177 MHz**
 Antenna Type **THV-8A7/VP-R O4**
 Gain **1.13 (0.53dB)**
 Calculated
 Circularity **+/- 1.0 dB**



Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.990	36	1.000	72	0.980	108	0.962	144	0.906	180	0.880	216	0.866	252	0.892	288	0.938	324	0.980
1	0.991	37	1.000	73	0.980	109	0.961	145	0.905	181	0.879	217	0.867	253	0.893	289	0.939	325	0.980
2	0.992	38	1.000	74	0.980	110	0.960	146	0.904	182	0.878	218	0.868	254	0.894	290	0.940	326	0.980
3	0.993	39	1.000	75	0.980	111	0.958	147	0.903	183	0.877	219	0.869	255	0.895	291	0.942	327	0.980
4	0.994	40	1.000	76	0.980	112	0.956	148	0.902	184	0.876	220	0.870	256	0.896	292	0.944	328	0.980
5	0.995	41	0.999	77	0.980	113	0.954	149	0.901	185	0.875	221	0.871	257	0.897	293	0.946	329	0.980
6	0.996	42	0.998	78	0.980	114	0.952	150	0.900	186	0.874	222	0.872	258	0.898	294	0.948	330	0.980
7	0.997	43	0.997	79	0.980	115	0.950	151	0.899	187	0.873	223	0.873	259	0.899	295	0.950	331	0.980
8	0.998	44	0.996	80	0.980	116	0.948	152	0.898	188	0.872	224	0.874	260	0.900	296	0.952	332	0.980
9	0.999	45	0.995	81	0.980	117	0.946	153	0.897	189	0.871	225	0.875	261	0.901	297	0.954	333	0.980
10	1.000	46	0.994	82	0.980	118	0.944	154	0.896	190	0.870	226	0.876	262	0.902	298	0.956	334	0.980
11	1.000	47	0.993	83	0.980	119	0.942	155	0.895	191	0.869	227	0.877	263	0.903	299	0.958	335	0.980
12	1.000	48	0.992	84	0.980	120	0.940	156	0.894	192	0.868	228	0.878	264	0.904	300	0.960	336	0.980
13	1.000	49	0.991	85	0.980	121	0.938	157	0.893	193	0.867	229	0.879	265	0.905	301	0.961	337	0.980
14	1.000	50	0.990	86	0.980	122	0.936	158	0.892	194	0.866	230	0.880	266	0.906	302	0.962	338	0.980
15	1.000	51	0.990	87	0.980	123	0.934	159	0.891	195	0.865	231	0.881	267	0.907	303	0.963	339	0.980
16	1.000	52	0.990	88	0.980	124	0.932	160	0.890	196	0.864	232	0.882	268	0.908	304	0.964	340	0.980
17	1.000	53	0.990	89	0.980	125	0.930	161	0.890	197	0.863	233	0.883	269	0.909	305	0.965	341	0.981
18	1.000	54	0.990	90	0.980	126	0.928	162	0.890	198	0.862	234	0.884	270	0.910	306	0.966	342	0.982
19	1.000	55	0.990	91	0.979	127	0.926	163	0.890	199	0.861	235	0.885	271	0.912	307	0.967	343	0.983
20	1.000	56	0.990	92	0.978	128	0.924	164	0.890	200	0.860	236	0.886	272	0.914	308	0.968	344	0.984
21	1.000	57	0.990	93	0.977	129	0.922	165	0.890	201	0.860	237	0.887	273	0.916	309	0.969	345	0.985
22	1.000	58	0.990	94	0.976	130	0.920	166	0.890	202	0.860	238	0.888	274	0.918	310	0.970	346	0.986
23	1.000	59	0.990	95	0.975	131	0.919	167	0.890	203	0.860	239	0.889	275	0.920	311	0.971	347	0.987
24	1.000	60	0.990	96	0.974	132	0.918	168	0.890	204	0.860	240	0.890	276	0.922	312	0.972	348	0.988
25	1.000	61	0.989	97	0.973	133	0.917	169	0.890	205	0.860	241	0.890	277	0.924	313	0.973	349	0.989
26	1.000	62	0.988	98	0.972	134	0.916	170	0.890	206	0.860	242	0.890	278	0.926	314	0.974	350	0.990
27	1.000	63	0.987	99	0.971	135	0.915	171	0.889	207	0.860	243	0.890	279	0.928	315	0.975	351	0.990
28	1.000	64	0.986	100	0.970	136	0.914	172	0.888	208	0.860	244	0.890	280	0.930	316	0.976	352	0.990
29	1.000	65	0.985	101	0.969	137	0.913	173	0.887	209	0.860	245	0.890	281	0.931	317	0.977	353	0.990
30	1.000	66	0.984	102	0.968	138	0.912	174	0.886	210	0.860	246	0.890	282	0.932	318	0.978	354	0.990
31	1.000	67	0.983	103	0.967	139	0.911	175	0.885	211	0.861	247	0.890	283	0.933	319	0.979	355	0.990
32	1.000	68	0.982	104	0.966	140	0.910	176	0.884	212	0.862	248	0.890	284	0.934	320	0.980	356	0.990
33	1.000	69	0.981	105	0.965	141	0.909	177	0.883	213	0.863	249	0.890	285	0.935	321	0.980	357	0.990
34	1.000	70	0.980	106	0.964	142	0.908	178	0.882	214	0.864	250	0.890	286	0.936	322	0.980	358	0.990
35	1.000	71	0.980	107	0.963	143	0.907	179	0.881	215	0.865	251	0.891	287	0.937	323	0.980	359	0.990

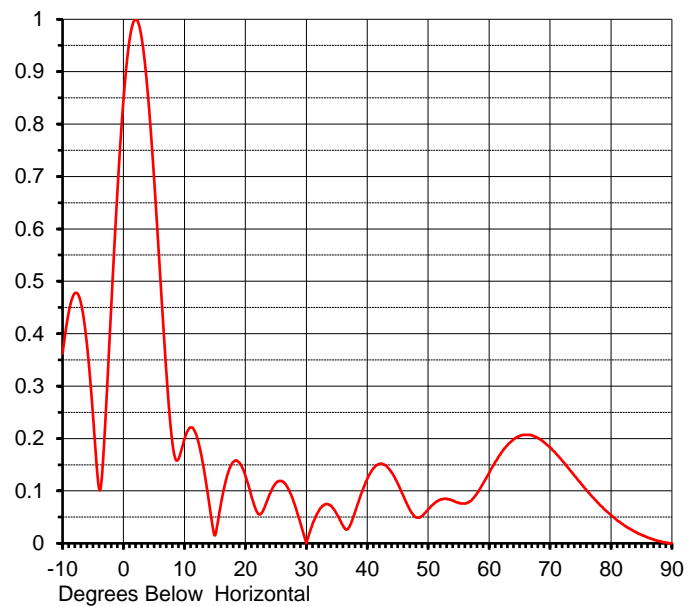
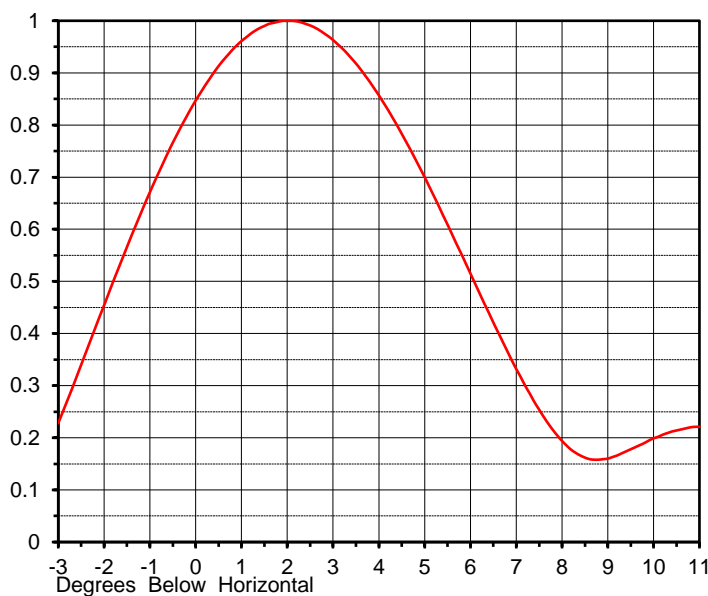
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ELEVATION PATTERN

Proposal No. **C-71634-1**
 Date **7-Mar-22**
 Call Letters **KABC**
 Channel **7**
 Frequency **177 MHz**
 Antenna Type **THV-8A7/VP-R O4**

RMS Directivity at Main Lobe **7.7 (8.86 dB)**
 RMS Directivity at Horizontal **5.5 (7.40 dB)**
Calculated

Beam Tilt **2.00 deg**
 Pattern Number **08V077200**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.362	10.0	0.199	30.0	0.000	50.0	0.065	70.0	0.183
-9.0	0.440	11.0	0.221	31.0	0.036	51.0	0.076	71.0	0.171
-8.0	0.477	12.0	0.205	32.0	0.061	52.0	0.083	72.0	0.158
-7.0	0.459	13.0	0.154	33.0	0.074	53.0	0.085	73.0	0.144
-6.0	0.380	14.0	0.081	34.0	0.072	54.0	0.082	74.0	0.129
-5.0	0.243	15.0	0.015	35.0	0.056	55.0	0.077	75.0	0.115
-4.0	0.104	16.0	0.076	36.0	0.034	56.0	0.076	76.0	0.101
-3.0	0.228	17.0	0.129	37.0	0.030	57.0	0.081	77.0	0.088
-2.0	0.454	18.0	0.155	38.0	0.060	58.0	0.095	78.0	0.076
-1.0	0.671	19.0	0.154	39.0	0.094	59.0	0.114	79.0	0.064
0.0	0.847	20.0	0.129	40.0	0.123	60.0	0.134	80.0	0.054
1.0	0.961	21.0	0.090	41.0	0.143	61.0	0.155	81.0	0.044
2.0	1.000	22.0	0.058	42.0	0.151	62.0	0.173	82.0	0.036
3.0	0.963	23.0	0.065	43.0	0.149	63.0	0.187	83.0	0.028
4.0	0.857	24.0	0.094	44.0	0.135	64.0	0.198	84.0	0.022
5.0	0.700	25.0	0.115	45.0	0.114	65.0	0.205	85.0	0.016
6.0	0.515	26.0	0.119	46.0	0.089	66.0	0.207	86.0	0.011
7.0	0.332	27.0	0.105	47.0	0.064	67.0	0.206	87.0	0.007
8.0	0.194	28.0	0.077	48.0	0.050	68.0	0.201	88.0	0.004
9.0	0.160	29.0	0.040	49.0	0.052	69.0	0.193	89.0	0.001
								90.0	0.000

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