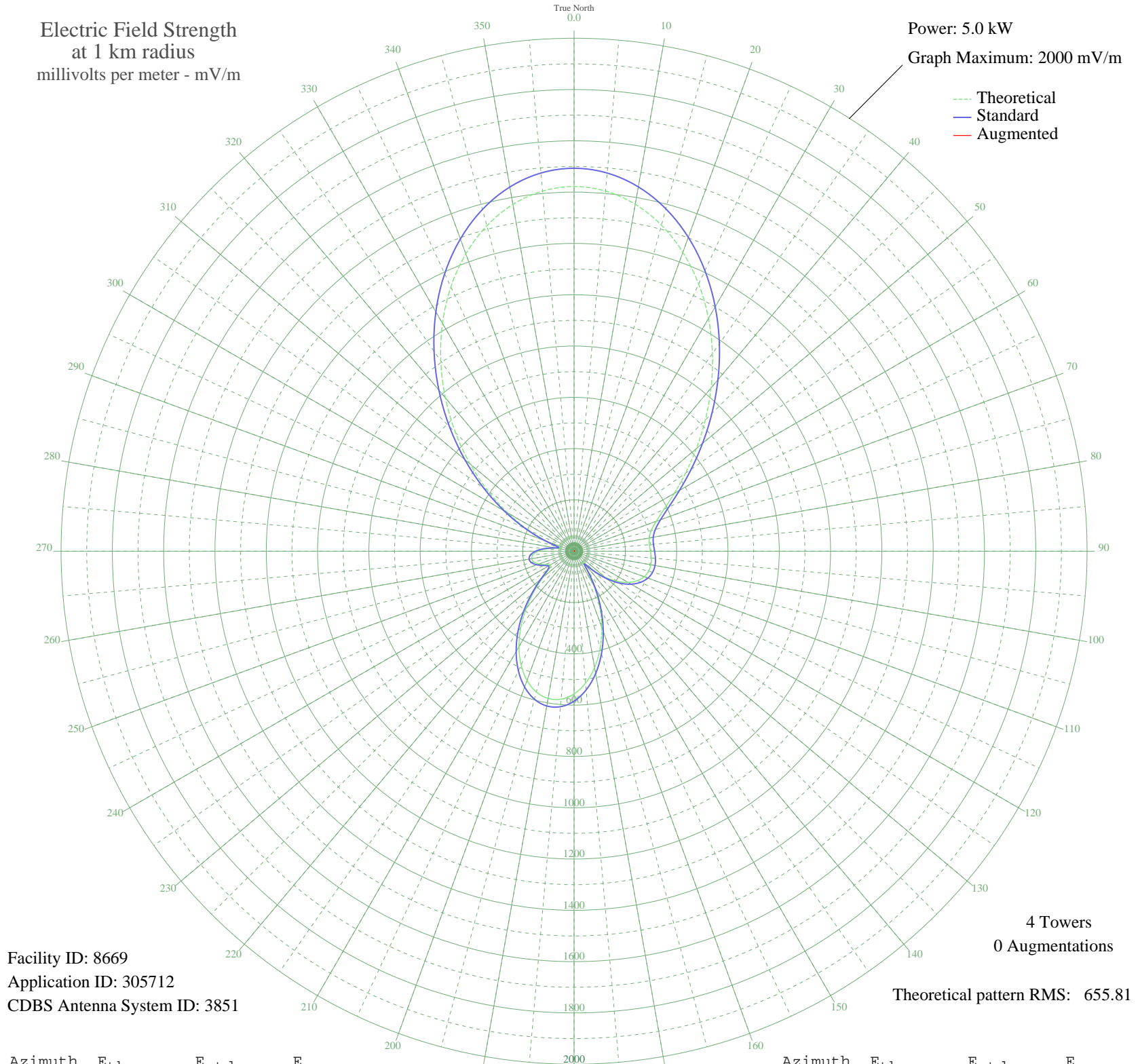


# KMTX HELENA, MT BL-- 950 kHz

Nighttime

Electric Field Strength  
at 1 km radius  
millivolts per meter - mV/m

Power: 5.0 kW  
Graph Maximum: 2000 mV/m



Facility ID: 8669  
Application ID: 305712  
CDBS Antenna System ID: 3851

Theoretical pattern RMS: 655.81

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	1421.74	1493.05	
5	1409.44	1480.15	
10	1373.55	1442.46	
15	1316.10	1382.15	
20	1240.09	1302.36	
25	1149.27	1207.02	
30	1047.82	1100.52	
35	940.14	987.50	
40	830.59	872.52	
45	723.29	759.91	
50	622.02	653.65	
55	530.25	557.38	
60	451.08	474.37	
65	387.22	407.43	
70	340.56	358.55	
75	311.39	328.01	
80	297.57	313.55	
85	294.78	310.64	
90	297.88	313.88	
95	302.21	318.41	
100	304.13	320.41	
105	300.91	317.05	
110	290.57	306.23	
115	271.64	286.44	
120	243.14	256.65	
125	204.65	216.49	
130	156.64	166.57	
135	101.90	110.18	
140	56.60	64.99	
145	81.60	89.63	
150	153.40	163.21	
155	234.38	247.50	
160	315.72	332.55	
165	392.49	412.96	
170	460.51	484.26	
175	516.12	542.56	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	556.30	584.71	
185	578.92	608.43	
190	582.88	612.59	
195	568.23	597.22	
200	536.13	563.55	
205	488.82	513.93	
210	429.40	451.64	
215	361.73	380.72	
220	290.26	305.90	
225	220.25	232.76	
230	158.69	168.69	
235	116.57	125.20	
240	106.47	114.85	
245	122.62	131.42	
250	145.12	154.63	
255	161.83	171.95	
260	167.75	178.09	
265	160.84	170.92	
270	140.53	149.89	
275	107.68	116.08	
280	67.80	75.90	
285	56.38	64.78	
290	112.90	121.43	
295	198.36	209.93	
300	298.61	314.64	
305	409.76	431.06	
310	529.10	556.17	
315	653.78	686.97	
320	780.62	820.07	
325	906.02	951.68	
330	1026.07	1077.70	
335	1136.68	1193.80	
340	1233.79	1295.75	
345	1313.64	1379.57	
350	1373.01	1441.90	
355	1409.51	1480.22	

The theoretical pattern is used to create the standard pattern. Augmentations (if any) expand the standard pattern in specified directions. See Sections 73.150 and 73.152 of the FCC's Rules.

AM coverage may not mirror the pattern shown here. Additional factors such as ground conductivity or skywave propagation affect how far the AM signal will travel.

Patterns for stations outside the USA are based on notified parameters.

AM directional patterns created before 1982 used units of 1 mV/m at 1 mile, not one kilometer. The pattern values on such plots at 1 mile will be 0.62137 of the values listed here. Measured pattern values may vary from values shown here.

Plot is best printed on 11" by 17" or larger paper.

26 Jun 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission