

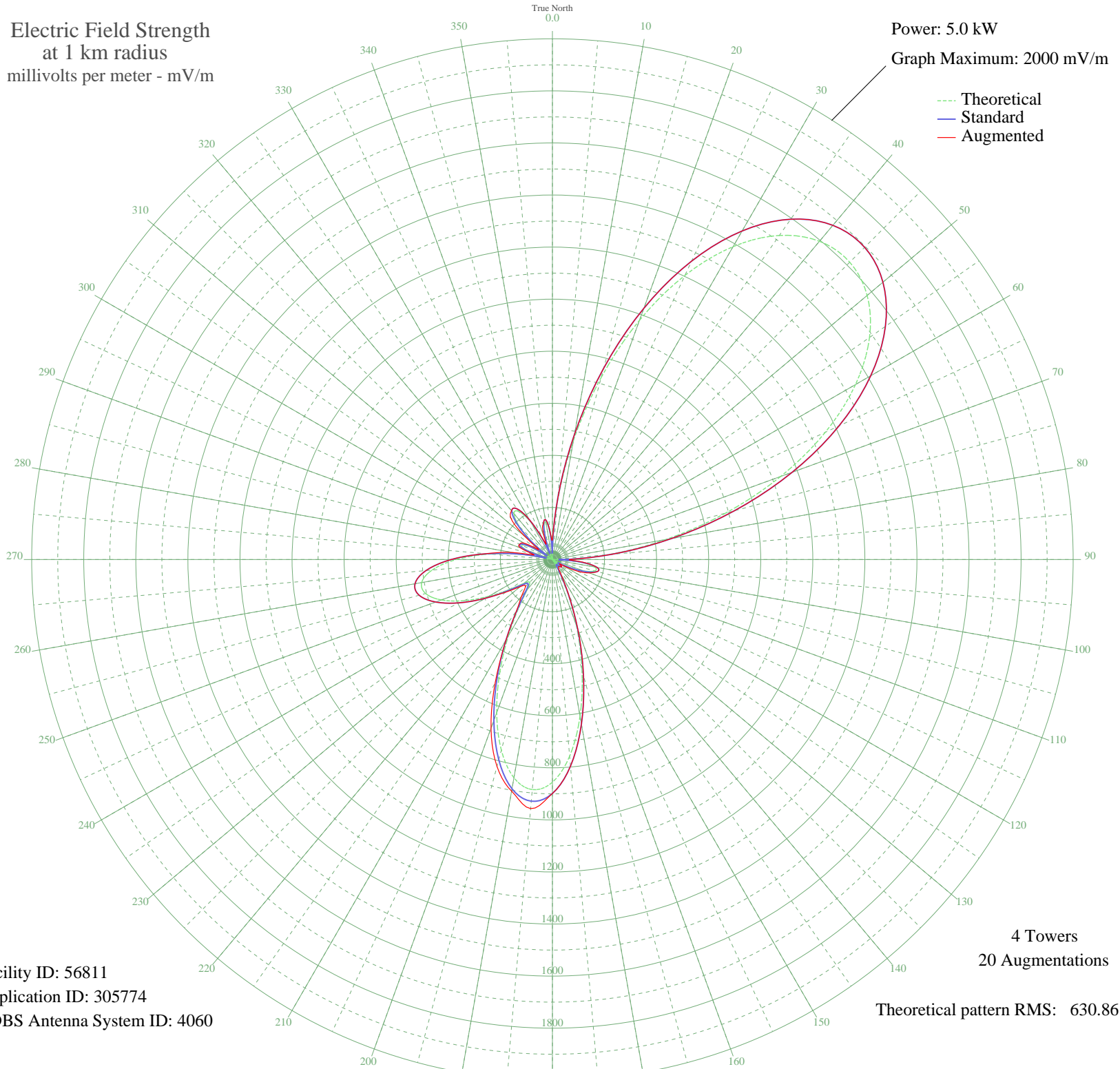
# KQAQ AUSTIN, MN BL-- 970 kHz

Daytime

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

Power: 5.0 kW

Graph Maximum: 2000 mV/m



Facility ID: 56811  
Application ID: 305774  
CDBS Antenna System ID: 4060

4 Towers  
20 Augmentations  
Theoretical pattern RMS: 630.86

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	29.95	39.31	76.92
5	224.21	236.60	236.60
10	464.29	488.08	488.08
15	724.03	760.60	760.60
20	977.70	1026.86	1026.86
25	1203.92	1264.34	1264.34
30	1387.52	1457.09	1457.09
35	1519.48	1595.63	1595.63
40	1595.63	1675.58	1675.58
45	1614.91	1695.82	1695.82
50	1577.98	1657.04	1657.04
55	1486.64	1561.15	1561.15
60	1344.17	1411.57	1411.57
65	1156.39	1214.44	1214.44
70	933.04	979.98	979.98
75	688.59	723.41	723.41
80	442.09	464.79	464.79
85	215.29	227.28	227.28
90	29.35	38.82	66.49
95	99.49	107.10	116.41
100	164.03	173.85	173.85
105	168.57	178.57	178.57
110	128.55	137.02	149.93
115	66.98	74.18	104.33
120	8.27	25.15	40.44
125	28.81	38.37	40.01
130	36.88	45.35	45.35
135	22.22	33.18	36.74
140	2.70	23.77	37.01
145	1.82	23.68	41.11
150	40.68	48.80	64.37
155	130.55	139.10	142.23
160	268.51	282.92	285.23
165	437.51	459.99	460.74
170	610.67	641.64	641.64
175	758.33	796.60	796.60

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	855.40	898.48	898.48
185	887.04	931.69	960.25
190	851.22	894.10	903.19
195	757.92	796.17	822.60
200	625.90	657.62	689.39
205	478.21	502.68	518.68
210	337.81	355.49	355.49
215	224.01	236.39	239.87
220	150.25	159.51	185.07
225	123.04	131.33	145.75
230	141.79	150.73	162.11
235	199.22	210.51	217.52
240	282.31	297.37	297.37
245	373.73	393.13	393.13
250	453.97	477.26	477.26
255	504.23	529.97	529.97
260	509.87	535.89	535.89
265	463.87	487.64	487.64
270	369.41	388.60	388.60
275	240.60	253.73	256.11
280	100.55	108.18	153.68
285	23.27	33.97	75.68
290	105.59	113.36	130.33
295	130.20	138.73	138.73
300	94.98	102.48	125.53
305	13.40	27.48	66.65
310	88.53	95.91	137.99
315	179.20	189.63	226.01
320	230.36	243.03	244.51
325	225.54	237.99	237.99
330	165.08	174.93	174.93
335	66.42	73.62	86.00
340	40.55	48.68	90.57
345	121.51	129.75	139.15
350	146.56	155.69	155.69
355	97.24	104.80	110.25

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.

06 Nov 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission