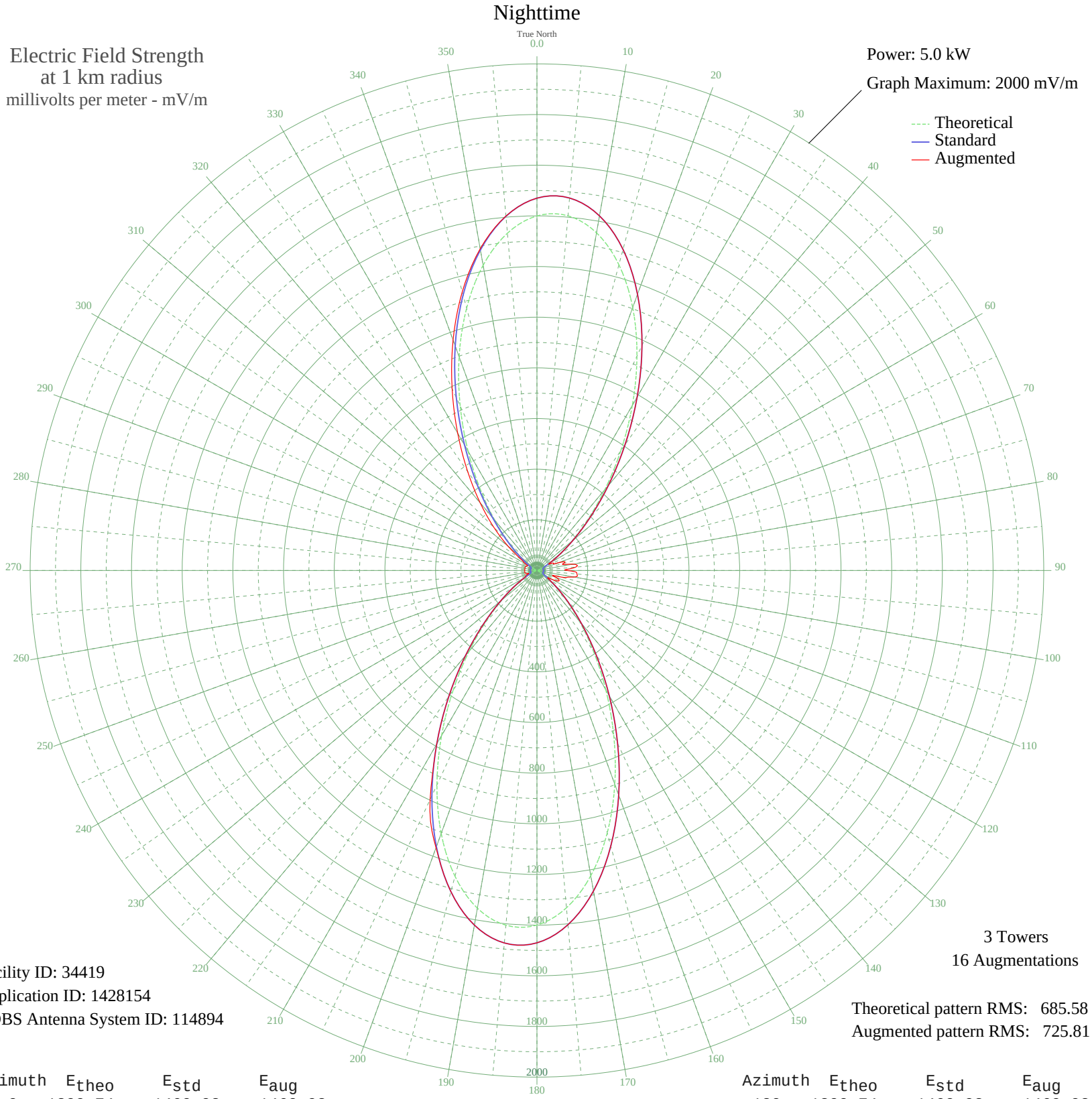
KFEQ ST. JOSEPH, MO BMML-20110511AHO 680 kHz

Nighttime

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



Power: 5.0 kW

Graph Maximum: 2000 mV/m

Theoretical
Standard
Augmented

3 Towers
16 Augmentations

Facility ID: 34419
Application ID: 1428154
CDBS Antenna System ID: 114894

Theoretical pattern RMS: 685.58
Augmented pattern RMS: 725.81

Azimuth	E_{theo}	E_{std}	E_{aug}
0	1399.74	1469.92	1469.92
5	1405.60	1476.07	1476.07
10	1353.65	1421.53	1421.53
15	1249.66	1312.36	1312.36
20	1104.84	1160.32	1160.32
25	933.93	980.91	980.91
30	752.88	790.88	790.88
35	576.59	605.87	605.87
40	417.06	438.54	438.54
45	282.40	297.44	297.44
50	176.53	186.84	186.84
55	99.62	107.20	107.20
60	48.90	56.46	56.46
65	19.75	31.33	69.89
70	6.78	24.53	86.22
75	4.26	23.90	108.26
80	6.81	24.54	143.70
85	10.96	26.15	153.38
90	13.95	27.67	119.34
95	14.25	27.84	158.54
100	11.72	26.51	148.26
105	7.61	24.80	101.80
110	4.49	23.95	80.05
115	5.64	24.21	96.38
120	16.04	28.90	74.19
125	41.51	49.51	51.12
130	87.51	94.83	94.83
135	158.88	168.47	168.47
140	258.86	272.82	272.82
145	387.95	408.02	408.02
150	543.02	570.65	570.65
155	716.81	753.01	753.01
160	898.02	943.22	943.22
165	1072.24	1126.09	1126.09
170	1223.53	1284.92	1284.92
175	1336.73	1403.76	1403.76
180	1399.74	1469.92	1469.92
185	1405.60	1476.07	1476.07
190	1353.65	1421.53	1421.53
195	1249.66	1312.35	1312.35
200	1104.84	1160.32	1164.69
205	933.93	980.91	997.89
210	752.88	790.88	790.88
215	576.59	605.87	605.87
220	417.06	438.54	438.54
225	282.40	297.44	297.44
230	176.53	186.84	186.84
235	99.62	107.20	107.20
240	48.90	56.46	57.25
245	19.75	31.33	48.28
250	6.78	24.53	34.42
255	4.26	23.90	44.53
260	6.81	24.54	48.36
265	10.96	26.15	48.46
270	13.95	27.67	48.32
275	14.25	27.84	48.24
280	11.72	26.51	47.97
285	7.61	24.80	48.07
290	4.49	23.95	47.41
295	5.64	24.21	42.69
300	16.04	28.90	53.29
305	41.51	49.51	74.91
310	87.51	94.83	147.12
315	158.88	168.47	239.73
320	258.86	272.82	348.38
325	387.95	408.02	476.38
330	543.02	570.65	625.39
335	716.81	753.02	792.14
340	898.03	943.22	967.78
345	1072.24	1126.09	1138.93
350	1223.53	1284.92	1289.71
355	1336.73	1403.76	1404.41

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.

29 Feb 2016

Prepared by Audio Division, Media Bureau
Federal Communications Commission