KNWC SIOUX FALLS, SD BMML-20160202ACM 1270 kHz

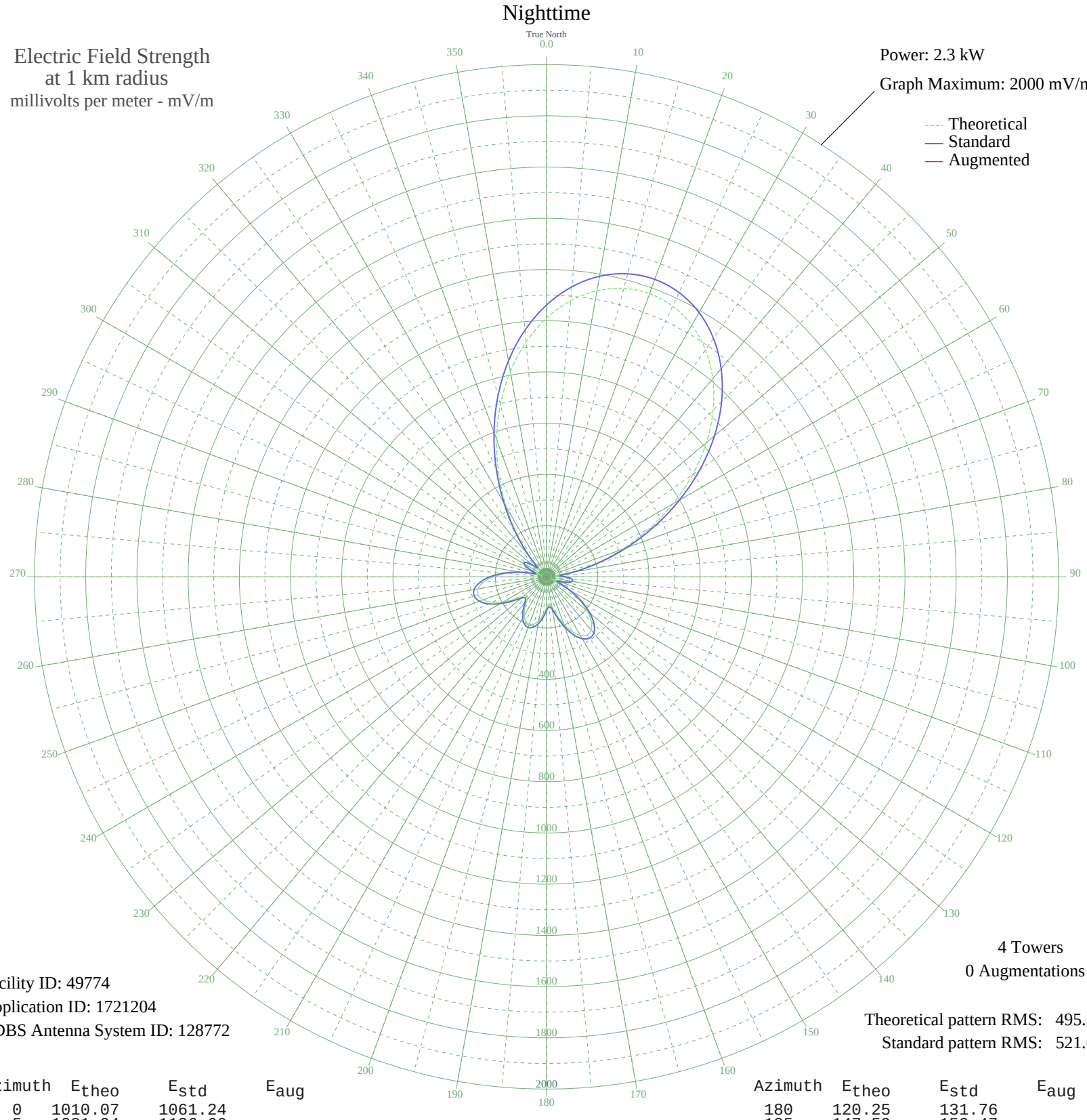
Nighttime

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

Power: 2.3 kW

Graph Maximum: 2000 mV/m

Theoretical
Standard
Augmented



4 Towers
0 Augmentations

Facility ID: 49774
Application ID: 1721204
CDBS Antenna System ID: 128772

Theoretical pattern RMS: 495.50
Standard pattern RMS: 521.64

Azimuth	E_{theo}	E_{std}	E_{aug}
0	1010.07	1061.24	
5	1081.94	1136.66	
10	1134.22	1191.52	
15	1165.94	1224.81	
20	1176.56	1235.96	
25	1165.94	1224.81	
30	1134.22	1191.52	
35	1081.94	1136.66	
40	1010.07	1061.24	
45	920.18	966.92	
50	814.62	856.17	
55	696.58	732.38	
60	570.26	599.96	
65	440.80	464.37	
70	314.13	331.98	
75	196.83	210.07	
80	96.46	108.04	
85	33.53	51.54	
90	59.70	73.12	
95	87.19	98.99	
100	90.32	102.03	
105	69.72	82.31	
110	31.91	50.39	
115	35.19	52.73	
120	93.72	105.35	
125	154.27	166.29	
130	207.57	221.17	
135	247.77	262.86	
140	271.10	287.13	
145	276.00	292.23	
150	263.05	278.75	
155	234.89	249.49	
160	196.09	209.30	
165	153.56	165.57	
170	118.25	129.74	
175	105.52	117.01	

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.

3 Feb 2017

Prepared by Audio Division, Media Bureau
Federal Communications Commission

Azimuth	E_{theo}	E_{std}	E_{aug}
180	120.25	131.76	
185	147.59	159.47	
190	173.51	186.03	
195	191.07	204.12	
200	197.22	210.47	
205	191.07	204.12	
210	173.51	186.03	
215	147.59	159.47	
220	120.25	131.75	
225	105.52	117.01	
230	118.25	129.74	
235	153.56	165.57	
240	196.09	209.30	
245	234.89	249.49	
250	263.05	278.75	
255	276.00	292.23	
260	271.10	287.13	
265	247.77	262.86	
270	207.57	221.17	
275	154.27	166.29	
280	93.72	105.35	
285	35.19	52.73	
290	31.91	50.39	
295	69.72	82.31	
300	90.32	102.03	
305	87.19	98.99	
310	59.70	73.12	
315	33.53	51.54	
320	96.46	108.05	
325	196.83	210.07	
330	314.13	331.98	
335	440.80	464.37	
340	570.26	599.96	
345	696.58	732.38	
350	814.62	856.17	
355	920.18	966.93	