

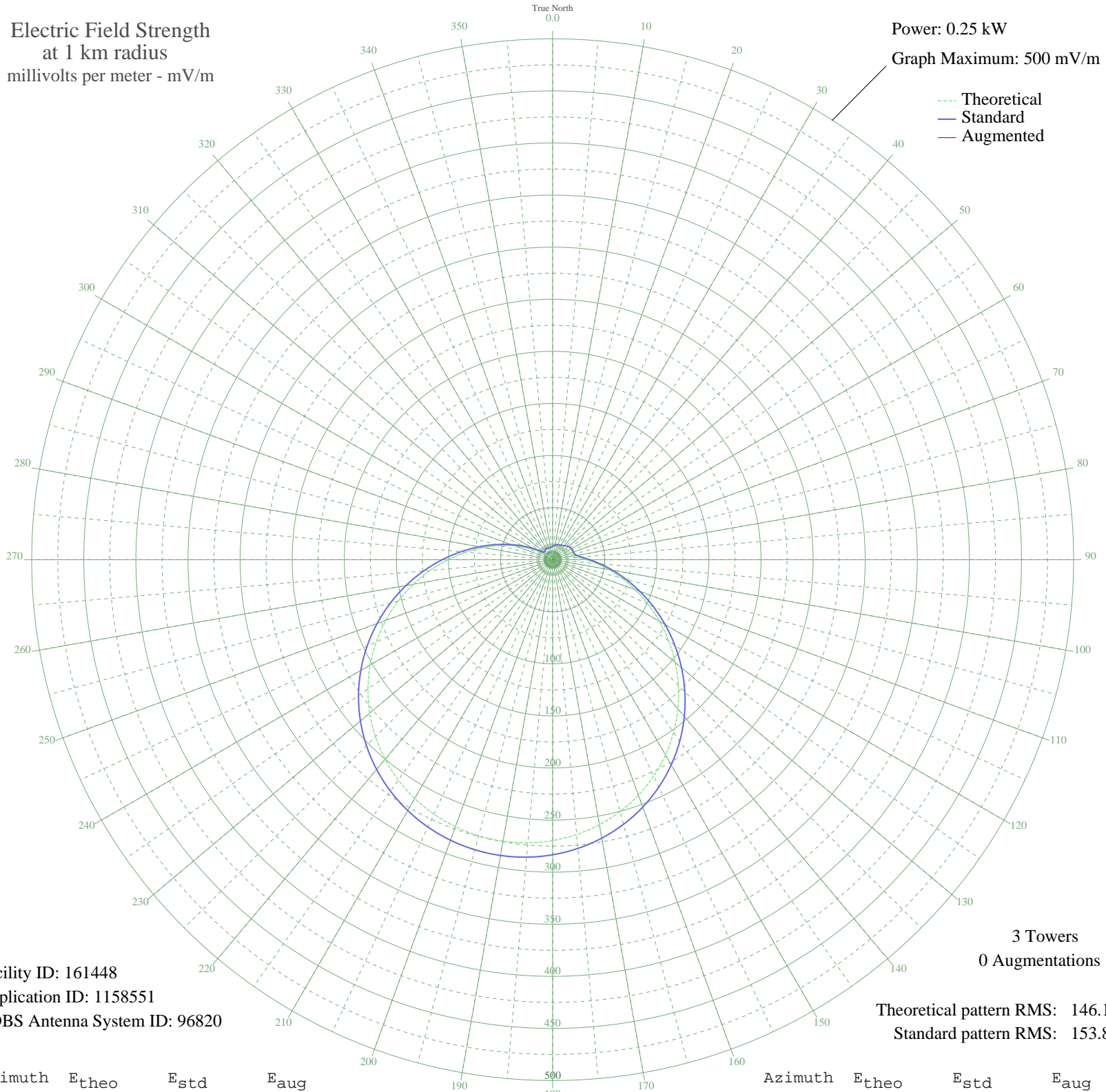
WPPI SAUK RAPIDS, MN BNP-20041029AGL 540 kHz

Nighttime

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

Power: 0.25 kW
Graph Maximum: 500 mV/m

--- Theoretical
— Standard
— Augmented



Facility ID: 161448
Application ID: 1158551
CDBS Antenna System ID: 96820

3 Towers
0 Augmentations

Theoretical pattern RMS: 146.19
Standard pattern RMS: 153.86

Azimuth	E _{theo}	E _{std}	E _{aug}
0	7.16	12.91	
5	8.37	13.69	
10	9.36	14.38	
15	10.09	14.92	
20	10.62	15.32	
25	11.08	15.67	
30	11.62	16.10	
35	12.38	16.71	
40	13.38	17.54	
45	14.54	18.53	
50	15.70	19.54	
55	16.65	20.40	
60	17.24	20.93	
65	17.45	21.12	
70	17.49	21.16	
75	18.04	21.65	
80	20.15	23.62	
85	24.80	28.08	
90	32.28	35.48	
95	42.35	45.70	
100	54.64	58.33	
105	68.76	72.96	
110	84.33	89.16	
115	100.96	106.53	
120	118.28	124.64	
125	135.90	143.08	
130	153.44	161.45	
135	170.55	179.39	
140	186.93	196.56	
145	202.31	212.69	
150	216.48	227.55	
155	229.26	240.95	
160	240.55	252.79	
165	250.25	262.98	
170	258.35	271.47	
175	264.80	278.24	

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.

Azimuth	E _{theo}	E _{std}	E _{aug}
180	269.63	283.30	
185	272.83	286.66	
190	274.41	288.33	
195	274.40	288.31	
200	272.77	286.60	
205	269.54	283.21	
210	264.70	278.13	
215	258.23	271.34	
220	250.13	262.85	
225	240.43	252.67	
230	229.16	240.85	
235	216.40	227.46	
240	202.25	212.63	
245	186.88	196.50	
250	170.48	179.32	
255	153.32	161.33	
260	135.69	142.86	
265	117.92	124.26	
270	100.35	105.89	
275	83.35	88.15	
280	67.26	71.40	
285	52.39	56.00	
290	39.00	42.27	
295	27.29	30.52	
300	17.40	21.07	
305	9.39	14.41	
310	3.28	11.05	
315	1.47	10.61	
320	4.16	11.37	
325	5.62	12.05	
330	6.01	12.25	
335	5.66	12.06	
340	5.00	11.74	
345	4.59	11.55	
350	4.91	11.70	
355	5.90	12.19	

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