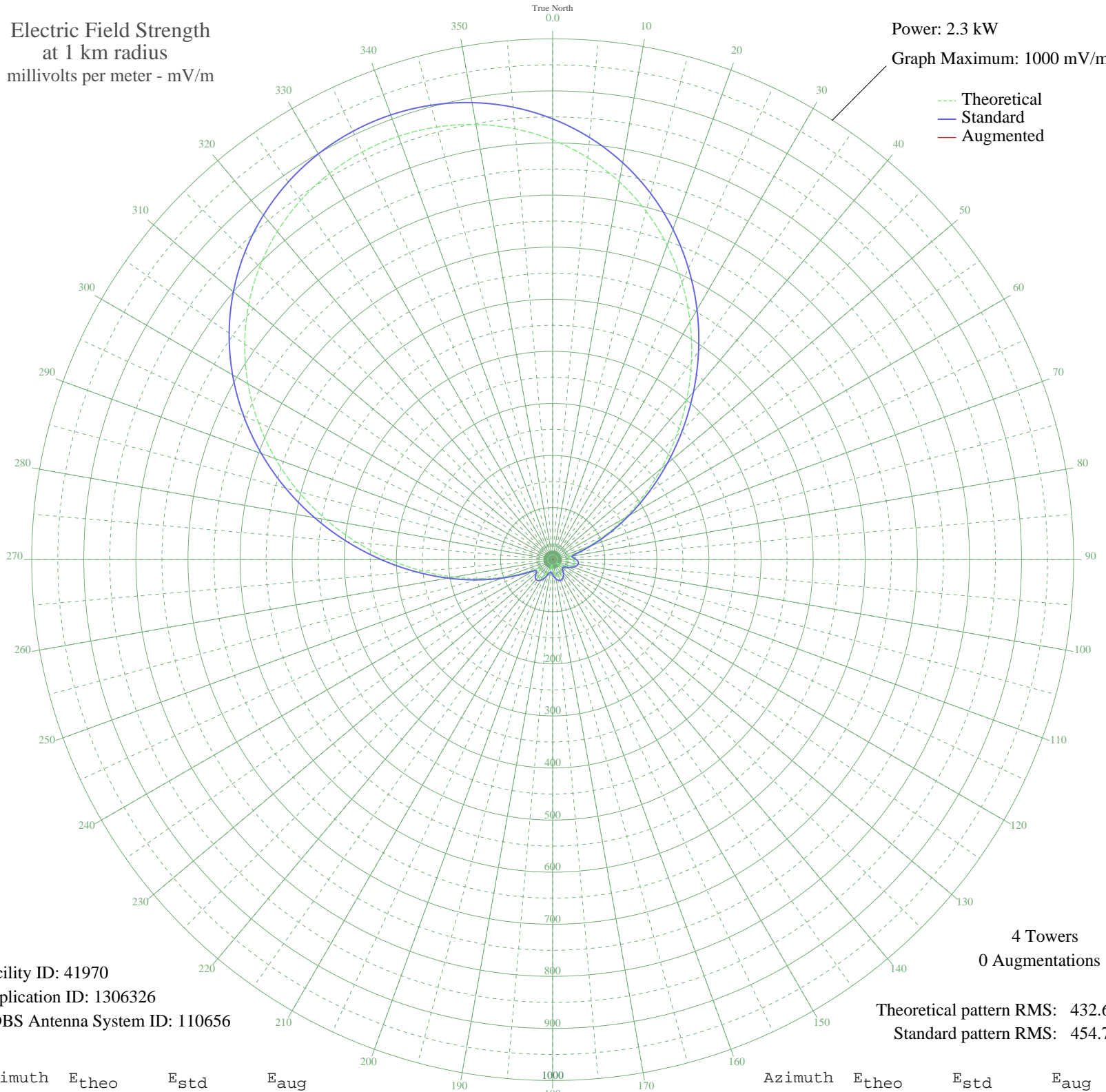


WREY ST. PAUL, MN BP-20100302AAB 630 kHz

Nighttime

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

Power: 2.3 kW  
Graph Maximum: 1000 mV/m



--- Theoretical  
— Standard  
— Augmented

Facility ID: 41970  
Application ID: 1306326  
CDBS Antenna System ID: 110656

4 Towers  
0 Augmentations

Theoretical pattern RMS: 432.64  
Standard pattern RMS: 454.77

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	805.73	846.29	
5	774.55	813.56	
10	736.80	773.94	
15	692.69	727.64	
20	642.62	675.09	
25	587.23	616.96	
30	527.48	554.27	
35	464.59	488.29	
40	400.03	420.58	
45	335.48	352.90	
50	272.68	287.11	
55	213.39	225.07	
60	159.25	168.57	
65	111.78	119.29	
70	72.46	79.02	
75	43.56	50.47	
80	29.81	37.88	
85	31.89	39.70	
90	38.34	45.56	
95	42.39	49.36	
100	42.79	49.74	
105	39.85	46.96	
110	34.29	41.85	
115	26.99	35.47	
120	19.00	29.21	
125	12.18	24.87	
130	10.79	24.16	
135	15.76	27.00	
140	22.19	31.59	
145	27.90	36.24	
150	32.13	39.91	
155	34.51	42.05	
160	34.88	42.38	
165	33.21	40.88	
170	29.62	37.72	
175	24.39	33.33	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	18.07	28.55	
185	12.13	24.85	
190	10.77	24.15	
195	16.26	27.32	
200	24.13	33.12	
205	31.81	39.63	
210	38.10	45.34	
215	42.08	49.07	
220	42.96	49.90	
225	40.20	47.30	
230	34.25	41.82	
235	29.23	37.38	
240	36.54	43.90	
245	60.68	67.19	
250	96.59	103.64	
255	141.32	149.91	
260	193.22	204.00	
265	250.84	264.25	
270	312.57	328.89	
275	376.70	396.11	
280	441.46	464.02	
285	505.13	530.81	
290	566.17	594.86	
295	623.25	654.76	
300	675.32	709.41	
305	721.64	758.02	
310	761.71	800.08	
315	795.27	835.30	
320	822.22	863.60	
325	842.61	884.99	
330	856.50	899.57	
335	863.98	907.43	
340	865.12	908.63	
345	859.92	903.17	
350	848.35	891.02	
355	830.31	872.09	

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.

10 Nov 2011

Prepared by Audio Division, Media Bureau  
Federal Communications Commission