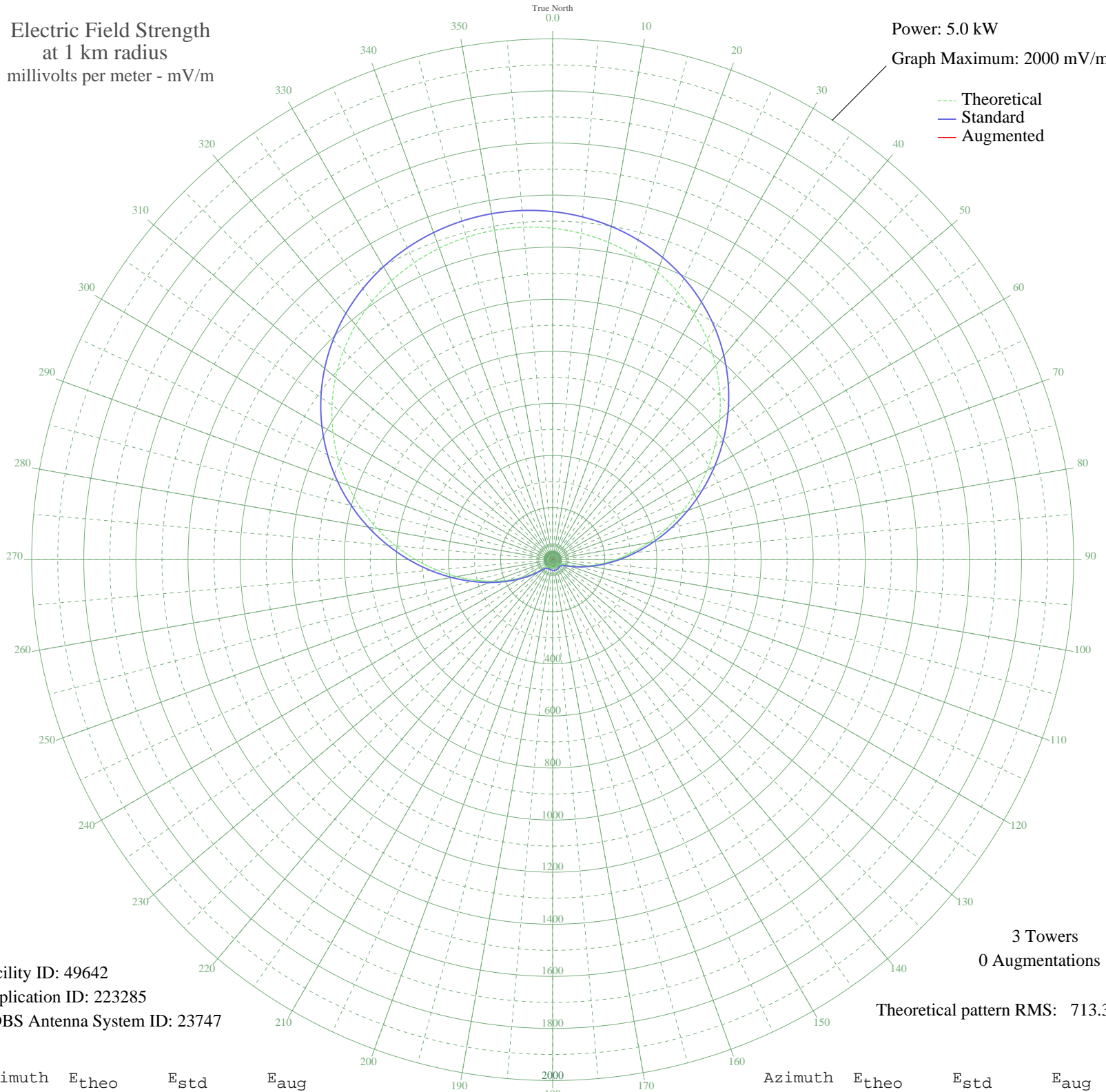


# KPNP WATERTOWN, MN BL-19960408AC 1600 kHz

Unlimited Time

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

Power: 5.0 kW  
Graph Maximum: 2000 mV/m



Facility ID: 49642  
Application ID: 223285  
CDBS Antenna System ID: 23747

3 Towers  
0 Augmentations

Theoretical pattern RMS: 713.37

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	1272.68	1336.56	
5	1257.89	1321.04	
10	1236.95	1299.05	
15	1209.64	1270.38	
20	1175.78	1234.83	
25	1135.22	1192.26	
30	1087.93	1142.61	
35	1034.01	1086.01	
40	973.77	1022.78	
45	907.73	953.46	
50	836.66	878.87	
55	761.57	800.06	
60	683.70	718.34	
65	604.46	635.20	
70	525.42	552.28	
75	448.17	471.27	
80	374.29	393.84	
85	305.25	321.53	
90	242.33	255.73	
95	186.56	197.55	
100	138.70	147.86	
105	99.27	107.32	
110	68.58	76.42	
115	46.88	55.47	
120	34.15	44.04	
125	28.95	39.72	
130	27.81	38.81	
135	27.75	38.76	
140	27.75	38.76	
145	27.92	38.90	
150	28.58	39.42	
155	29.73	40.35	
160	31.06	41.44	
165	32.10	42.30	
170	32.48	42.62	
175	32.10	42.30	

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

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	31.06	41.44	
185	29.73	40.35	
190	28.58	39.42	
195	27.92	38.90	
200	27.75	38.76	
205	27.75	38.76	
210	27.81	38.81	
215	28.95	39.72	
220	34.15	44.04	
225	46.88	55.47	
230	68.58	76.42	
235	99.27	107.32	
240	138.70	147.86	
245	186.56	197.55	
250	242.33	255.73	
255	305.25	321.53	
260	374.29	393.84	
265	448.17	471.27	
270	525.42	552.28	
275	604.46	635.20	
280	683.70	718.34	
285	761.57	800.06	
290	836.66	878.87	
295	907.73	953.46	
300	973.77	1022.78	
305	1034.01	1086.01	
310	1087.93	1142.61	
315	1135.22	1192.26	
320	1175.78	1234.83	
325	1209.64	1270.38	
330	1236.95	1299.05	
335	1257.89	1321.04	
340	1272.68	1336.56	
345	1281.47	1345.79	
350	1284.39	1348.85	
355	1281.47	1345.79	