

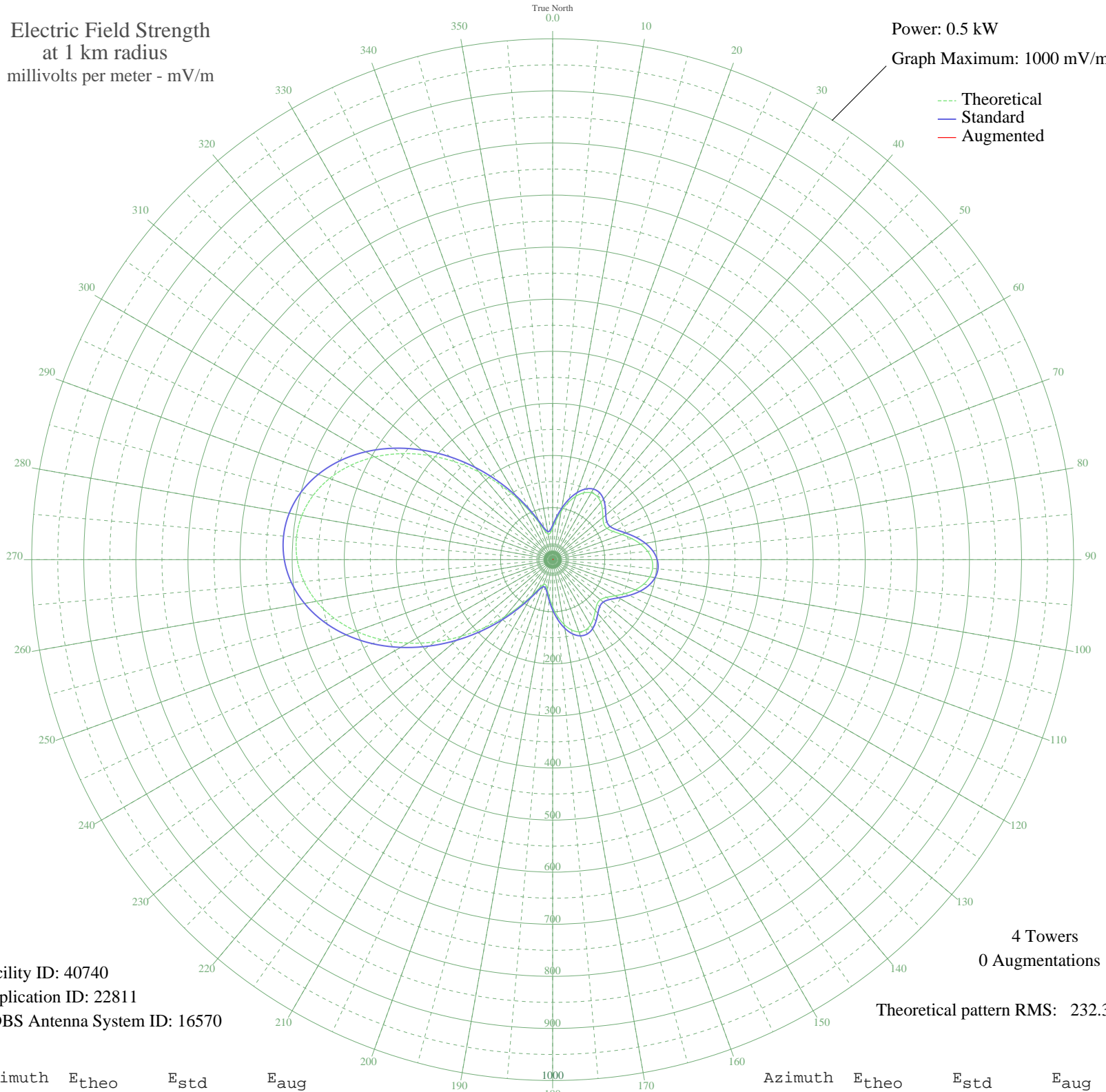
WMCP COLUMBIA, TN BL-19800812AA 1280 kHz

Nighttime

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

Power: 0.5 kW  
Graph Maximum: 1000 mV/m

--- Theoretical  
— Standard  
— Augmented



Facility ID: 40740  
Application ID: 22811  
CDBS Antenna System ID: 16570

4 Towers  
0 Augmentations

Theoretical pattern RMS: 232.37

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	60.75	65.84	
5	75.92	81.36	
10	94.22	100.26	
15	112.92	119.68	
20	129.44	136.88	
25	141.66	149.63	
30	148.21	156.47	
35	148.67	156.95	
40	143.70	151.76	
45	135.11	142.79	
50	125.90	133.20	
55	119.88	126.92	
60	120.35	127.41	
65	128.20	135.60	
70	141.46	149.43	
75	156.89	165.54	
80	171.53	180.84	
85	183.19	193.04	
90	190.48	200.66	
95	192.62	202.91	
100	189.41	199.55	
105	181.17	190.93	
110	168.78	177.96	
115	153.79	162.29	
120	138.53	146.37	
125	126.11	133.41	
130	119.65	126.68	
135	120.65	127.72	
140	127.61	134.98	
145	136.99	144.75	
150	145.06	153.18	
155	149.05	157.35	
160	147.39	155.61	
165	139.64	147.52	
170	126.42	133.74	
175	109.28	115.89	

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.

23 Oct 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	90.44	96.35	
185	72.54	77.89	
190	58.33	63.38	
195	50.34	55.31	
200	50.58	55.55	
205	60.16	65.23	
210	79.22	84.76	
215	107.14	113.67	
220	142.64	150.65	
225	183.88	193.76	
230	228.74	240.73	
235	274.97	289.18	
240	320.42	336.83	
245	363.14	381.65	
250	401.52	421.91	
255	434.25	456.25	
260	460.38	483.68	
265	479.24	503.46	
270	490.39	515.16	
275	493.59	518.52	
280	488.79	513.48	
285	476.07	500.14	
290	455.72	478.78	
295	428.20	449.91	
300	394.25	414.29	
305	354.90	373.00	
310	311.49	327.47	
315	265.72	279.48	
320	219.59	231.14	
325	175.27	184.75	
330	135.01	142.70	
335	100.90	107.19	
340	74.67	80.07	
345	57.47	62.51	
350	49.81	54.77	
355	51.34	56.31	