

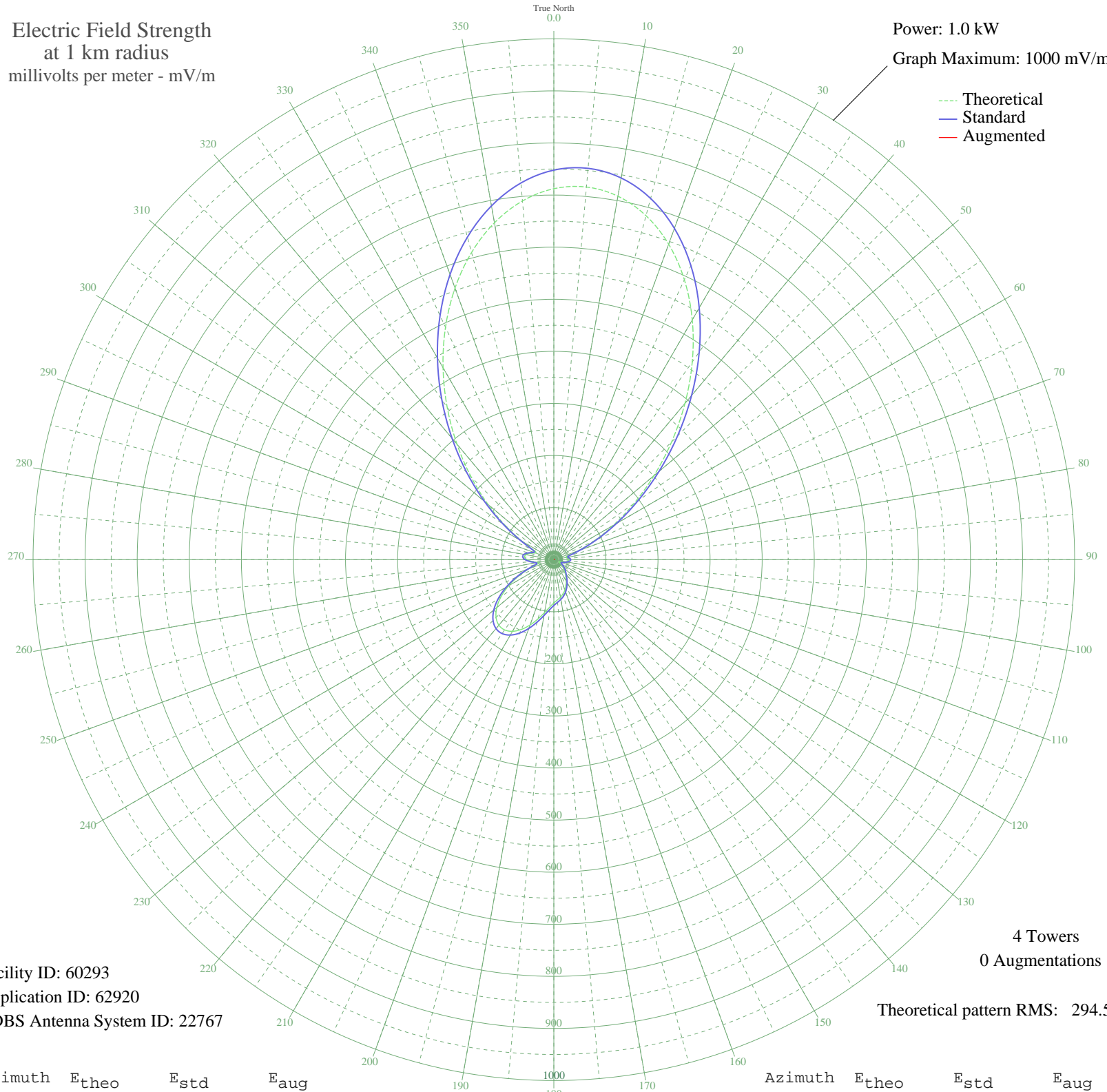
WMLM ST. LOUIS, MI BL-19831109AH 1520 kHz

Daytime

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

Power: 1.0 kW  
Graph Maximum: 1000 mV/m

--- Theoretical  
— Standard  
— Augmented



Facility ID: 60293  
Application ID: 62920  
CDBS Antenna System ID: 22767

4 Towers  
0 Augmentations

Theoretical pattern RMS: 294.59

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	712.23	747.91	
5	718.20	754.18	
10	708.64	744.14	
15	683.75	718.01	
20	644.60	676.91	
25	593.05	622.79	
30	531.64	558.32	
35	463.43	486.71	
40	391.71	411.43	
45	319.82	335.97	
50	250.84	263.59	
55	187.44	197.09	
60	131.78	138.76	
65	85.49	90.38	
70	50.11	53.65	
75	28.33	31.54	
80	23.60	26.92	
85	27.30	30.53	
90	29.32	32.52	
95	27.63	30.85	
100	22.92	26.26	
105	16.67	20.41	
110	11.23	15.79	
115	10.49	15.22	
120	14.47	18.47	
125	19.42	22.93	
130	24.06	27.36	
135	28.62	31.83	
140	33.79	37.00	
145	40.05	43.35	
150	47.29	50.76	
155	54.88	58.57	
160	62.00	65.94	
165	68.06	72.23	
170	73.00	77.36	
175	77.55	82.10	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	83.17	87.96	
185	91.47	96.61	
190	103.21	108.88	
195	117.79	124.12	
200	133.41	140.47	
205	147.83	155.58	
210	158.85	167.12	
215	164.69	173.24	
220	164.18	172.71	
225	156.88	165.05	
230	143.03	150.55	
235	123.57	130.18	
240	100.04	105.57	
245	74.54	78.97	
250	50.11	53.65	
255	32.49	35.70	
260	31.09	34.29	
265	41.41	44.73	
270	51.41	54.99	
275	56.33	60.07	
280	54.68	58.37	
285	46.90	50.35	
290	37.59	40.84	
295	42.10	45.43	
300	69.92	74.16	
305	112.72	118.82	
310	165.18	173.75	
315	224.73	236.20	
320	289.38	304.03	
325	357.05	375.05	
330	425.51	446.91	
335	492.31	517.03	
340	554.86	582.70	
345	610.54	641.15	
350	656.79	689.71	
355	691.32	725.96	

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.

27 Jun 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission