

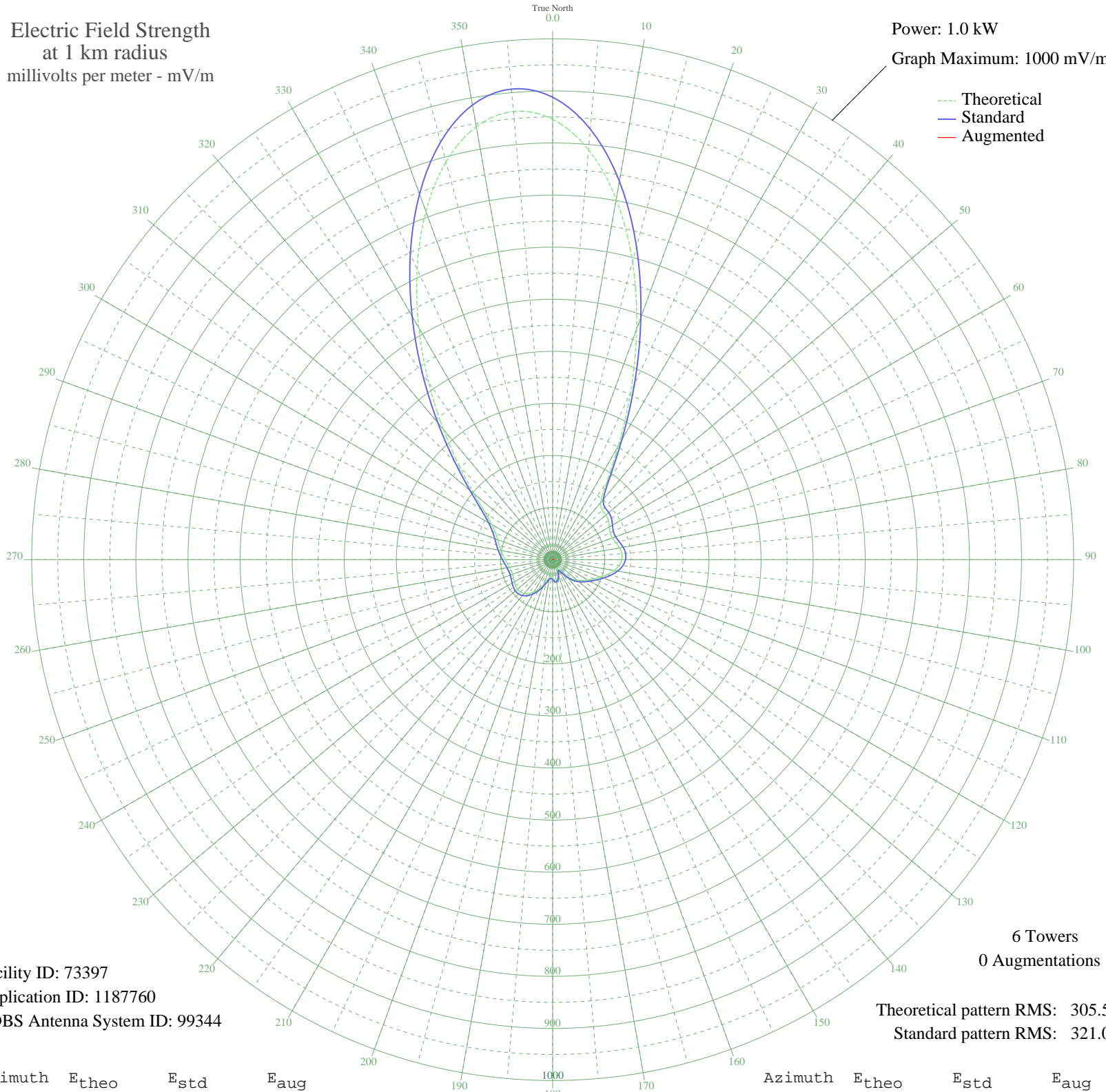
WCAR LIVONIA, MI BP-20050128AMO 1090 kHz

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: 73397
Application ID: 1187760
CDBS Antenna System ID: 99344

6 Towers
0 Augmentations

Theoretical pattern RMS: 305.50
Standard pattern RMS: 321.00

Azimuth	E _{theo}	E _{std}	E _{aug}
0	845.56	887.91	
5	790.08	829.67	
10	702.50	737.71	
15	592.16	621.88	
20	471.31	495.01	
25	353.50	371.35	
30	252.31	265.17	
35	180.22	189.58	
40	143.97	151.60	
45	134.55	141.74	
50	133.52	140.67	
55	130.78	137.80	
60	125.82	132.61	
65	122.00	128.62	
70	122.04	128.65	
75	125.67	132.45	
80	130.37	137.36	
85	133.33	140.47	
90	132.79	139.90	
95	128.18	135.07	
100	119.98	126.49	
105	109.38	115.41	
110	97.94	103.47	
115	87.14	92.21	
120	77.81	82.50	
125	69.74	74.12	
130	61.76	65.85	
135	52.49	56.29	
140	41.28	44.83	
145	29.04	32.57	
150	19.85	23.78	
155	21.15	24.98	
160	29.41	32.94	
165	36.61	40.10	
170	39.76	43.28	
175	38.63	42.14	

Azimuth	E _{theo}	E _{std}	E _{aug}
180	34.96	38.45	
185	32.36	35.86	
190	34.68	38.17	
195	42.18	45.74	
200	52.20	55.99	
205	62.53	66.64	
210	71.89	76.35	
215	79.53	84.28	
220	84.91	89.88	
225	87.78	92.88	
230	88.29	93.41	
235	87.02	92.08	
240	84.87	89.84	
245	82.86	87.76	
250	81.84	86.69	
255	82.24	87.11	
260	84.11	89.06	
265	87.20	92.28	
270	91.18	96.42	
275	95.71	101.14	
280	100.60	106.25	
285	105.88	111.77	
290	112.09	118.25	
295	120.74	127.29	
300	134.81	142.01	
305	158.76	167.09	
310	197.16	207.34	
315	252.88	265.78	
320	326.22	342.73	
325	414.82	435.71	
330	513.74	539.55	
335	615.68	646.57	
340	711.42	747.08	
345	790.79	830.41	
350	844.10	886.38	
355	863.71	906.97	

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.

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Prepared by Audio Division, Media Bureau
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