

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-930-XXX-DIM-UNV-N-XXX_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] W4CR_BARBARA-NARROW
[TESTLAB] LEDIL Inc
[TESTDATE] 07/03/2025
[ISSUEDATE] 2025-07-15
[MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMINAIRE] 4 INCH ROUND OUTDOOR LED CYLINDER
[MORE] NARROW DIST. W/MICROPRISIM LENS
[LUMCAT] W4CR-xx-L25-930-xxx-DIM-UNV-N-xxx
[MORE] 0-10V LED DRIVER

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2590
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7345.582
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	7345.582
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.237 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.184 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-930-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1138.4	N.A.	44.0
FM - Front-Medium (30-60)	148.7	N.A.	5.7
FH - Front-High (60-80)	7.4	N.A.	0.3
FVH - Front-Very High (80-90)	0.4	N.A.	0.0
BL - Back-Low (0-30)	1138.4	N.A.	44.0
BM - Back-Medium (30-60)	148.7	N.A.	5.7
BH - Back-High (60-80)	7.4	N.A.	0.3
BVH - Back-Very High (80-90)	0.4	N.A.	0.0
UL - Uplight-Low (90-100)	0.2	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	2590.0	N.A.	100.0
BUG Rating	B3-U1-G0		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles				
	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	7345.582	7345.582	7345.582	7345.582	7345.582
1	7336.864	7336.530	7335.109	7334.750	7337.425
2	7300.824	7298.683	7297.271	7285.518	7283.071
3	7233.532	7222.595	7224.437	7217.552	7221.051
4	7126.140	7120.123	7114.019	7106.581	7112.729
5	6976.919	6986.076	6967.937	6956.509	6971.604
6	6792.070	6798.446	6785.114	6780.010	6790.710
7	6584.863	6576.066	6566.988	6568.663	6577.005
8	6332.662	6319.847	6316.409	6314.620	6327.013
9	6038.938	6031.492	6022.229	6022.212	6045.253
10	5710.201	5701.780	5695.702	5695.237	5724.734
11	5341.739	5334.687	5338.608	5345.274	5371.771
12	4944.421	4940.325	4949.956	4961.533	4996.196
13	4528.412	4532.289	4547.866	4563.777	4595.756
14	4107.895	4115.280	4142.242	4162.187	4186.606
15	3695.745	3708.919	3743.915	3766.658	3789.945
16	3302.347	3322.740	3362.455	3393.399	3405.459
17	2947.797	2968.681	3015.430	3039.945	3047.216
18	2630.698	2639.311	2691.139	2716.172	2723.890
19	2330.353	2355.789	2409.230	2429.772	2437.192
20	2078.730	2105.025	2152.187	2182.140	2188.973
21	1866.077	1888.618	1935.166	1958.435	1956.102
22	1687.657	1710.391	1750.755	1769.815	1766.096
23	1541.830	1558.574	1595.201	1612.068	1605.700
24	1417.018	1431.070	1466.382	1478.494	1471.855
25	1308.179	1323.028	1355.007	1364.550	1355.928
26	1210.531	1225.302	1253.781	1261.824	1254.316
27	1119.918	1130.873	1157.861	1164.729	1158.247
28	1028.375	1036.567	1060.266	1066.143	1061.775
29	935.700	942.717	959.400	966.750	965.013
30	839.184	841.903	856.551	864.559	862.392
31	737.274	738.905	749.562	756.737	756.851
32	637.223	636.276	643.056	650.485	650.651
33	535.444	533.751	539.610	546.136	545.399
34	437.884	437.200	441.059	446.716	446.883
35	352.621	347.788	351.568	354.112	352.761
36	270.910	269.788	271.779	273.199	270.577
37	204.145	204.584	202.496	202.382	205.277
38	151.423	153.677	148.774	149.940	150.511
39	111.023	109.918	110.664	108.629	108.199
40	84.991	81.106	81.246	81.123	81.106
41	61.862	61.923	63.020	63.449	64.177
42	49.372	49.925	51.626	52.591	53.793
43	42.487	43.004	44.864	46.153	47.118
44	38.935	39.320	41.127	42.478	43.092
45	37.356	37.619	39.391	40.469	40.969
46	36.838	37.172	38.715	39.548	40.005
47	37.005	37.329	38.619	39.285	39.741
48	37.452	37.671	38.768	39.250	39.741
49	37.715	37.952	38.873	39.206	39.636
50	37.742	37.926	38.750	39.005	39.329
51	37.329	37.470	38.242	38.435	38.663
52	36.207	36.382	37.058	37.154	37.294

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-930-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	34.523	34.672	35.312	35.303	35.391
54	32.374	32.549	33.093	33.005	33.111
55	29.971	30.076	30.567	30.435	30.497
56	27.366	27.418	27.760	27.673	27.690
57	24.594	24.655	24.866	24.813	24.778
58	21.945	21.989	22.094	22.050	22.015
59	19.489	19.472	19.498	19.445	19.428
60	17.253	17.217	17.174	17.165	17.156
61	15.323	15.262	15.209	15.174	15.191
62	13.674	13.586	13.542	13.507	13.525
63	12.306	12.236	12.148	12.122	12.157
64	11.148	11.095	11.025	10.981	11.043
65	10.227	10.174	10.113	10.052	10.122
66	9.403	9.376	9.306	9.262	9.341
67	8.718	8.692	8.613	8.587	8.666
68	8.078	8.061	7.999	7.955	8.052
69	7.499	7.490	7.412	7.376	7.464
70	6.964	6.947	6.868	6.815	6.885
71	6.429	6.429	6.324	6.263	6.306
72	5.920	5.912	5.798	5.719	5.771
73	5.403	5.394	5.263	5.166	5.210
74	4.859	4.850	4.710	4.596	4.640
75	4.289	4.245	4.122	3.991	4.026
76	3.631	3.579	3.429	3.324	3.359
77	2.886	2.851	2.658	2.579	2.579
78	2.017	2.000	1.807	1.702	1.719
79	1.307	1.324	1.272	1.281	1.281
80	1.184	1.184	1.167	1.167	1.167
81	1.105	1.105	1.105	1.114	1.105
82	1.053	1.044	1.044	1.053	1.053
83	0.982	0.974	0.974	0.974	0.982
84	0.903	0.895	0.895	0.903	0.903
85	0.816	0.816	0.816	0.816	0.816
86	0.719	0.710	0.710	0.710	0.719
87	0.596	0.596	0.596	0.596	0.596
88	0.465	0.465	0.465	0.456	0.456
89	0.325	0.316	0.316	0.316	0.316
90	0.237	0.219	0.219	0.211	0.202
91	0.219	0.211	0.202	0.193	0.193
92	0.219	0.211	0.202	0.202	0.193
93	0.219	0.211	0.211	0.202	0.202
94	0.219	0.211	0.211	0.202	0.202
95	0.219	0.211	0.211	0.202	0.211
96	0.228	0.211	0.211	0.202	0.202
97	0.228	0.219	0.211	0.211	0.211
98	0.228	0.219	0.219	0.219	0.219
99	0.246	0.219	0.219	0.219	0.219
100	0.246	0.228	0.219	0.219	0.219
101	0.000	0.000	0.000	0.000	0.000
102	0.000	0.000	0.000	0.000	0.000
103	0.000	0.000	0.000	0.000	0.000
104	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000
106	0.000	0.000	0.000	0.000	0.000
107	0.000	0.000	0.000	0.000	0.000
108	0.000	0.000	0.000	0.000	0.000

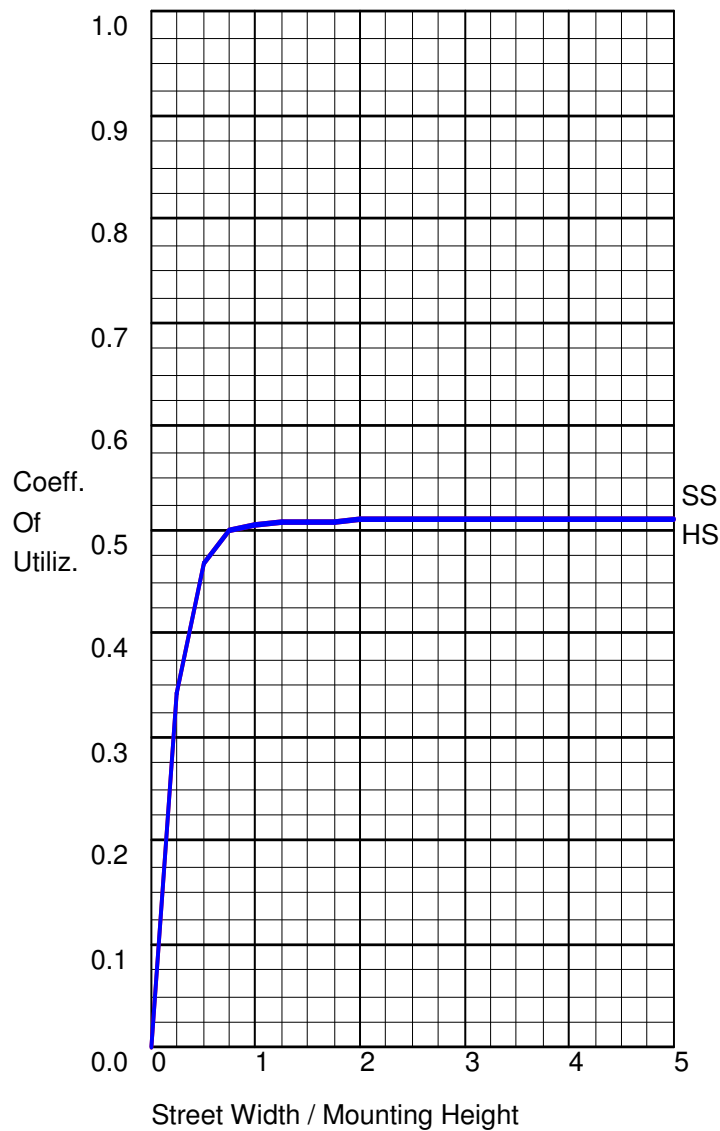
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-930-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

109	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	0.000
112	0.000	0.000	0.000	0.000	0.000
113	0.000	0.000	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
116	0.000	0.000	0.000	0.000	0.000
117	0.000	0.000	0.000	0.000	0.000
118	0.000	0.000	0.000	0.000	0.000
119	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000
121	0.000	0.000	0.000	0.000	0.000
122	0.000	0.000	0.000	0.000	0.000
123	0.000	0.000	0.000	0.000	0.000
124	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000
126	0.000	0.000	0.000	0.000	0.000
127	0.000	0.000	0.000	0.000	0.000
128	0.000	0.000	0.000	0.000	0.000
129	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000
131	0.000	0.000	0.000	0.000	0.000
132	0.000	0.000	0.000	0.000	0.000
133	0.000	0.000	0.000	0.000	0.000
134	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000
136	0.000	0.000	0.000	0.000	0.000
137	0.000	0.000	0.000	0.000	0.000
138	0.000	0.000	0.000	0.000	0.000
139	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000
141	0.000	0.000	0.000	0.000	0.000
142	0.000	0.000	0.000	0.000	0.000
143	0.000	0.000	0.000	0.000	0.000
144	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
146	0.000	0.000	0.000	0.000	0.000
147	0.000	0.000	0.000	0.000	0.000
148	0.000	0.000	0.000	0.000	0.000
149	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
151	0.000	0.000	0.000	0.000	0.000
152	0.000	0.000	0.000	0.000	0.000
153	0.000	0.000	0.000	0.000	0.000
154	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
156	0.000	0.000	0.000	0.000	0.000
157	0.000	0.000	0.000	0.000	0.000
158	0.000	0.000	0.000	0.000	0.000
159	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
161	0.000	0.000	0.000	0.000	0.000
162	0.000	0.000	0.000	0.000	0.000
163	0.000	0.000	0.000	0.000	0.000
164	0.000	0.000	0.000	0.000	0.000

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-930-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

165	0.000	0.000	0.000	0.000	0.000
166	0.000	0.000	0.000	0.000	0.000
167	0.000	0.000	0.000	0.000	0.000
168	0.000	0.000	0.000	0.000	0.000
169	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
171	0.000	0.000	0.000	0.000	0.000
172	0.000	0.000	0.000	0.000	0.000
173	0.000	0.000	0.000	0.000	0.000
174	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
176	0.000	0.000	0.000	0.000	0.000
177	0.000	0.000	0.000	0.000	0.000
178	0.000	0.000	0.000	0.000	0.000
179	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

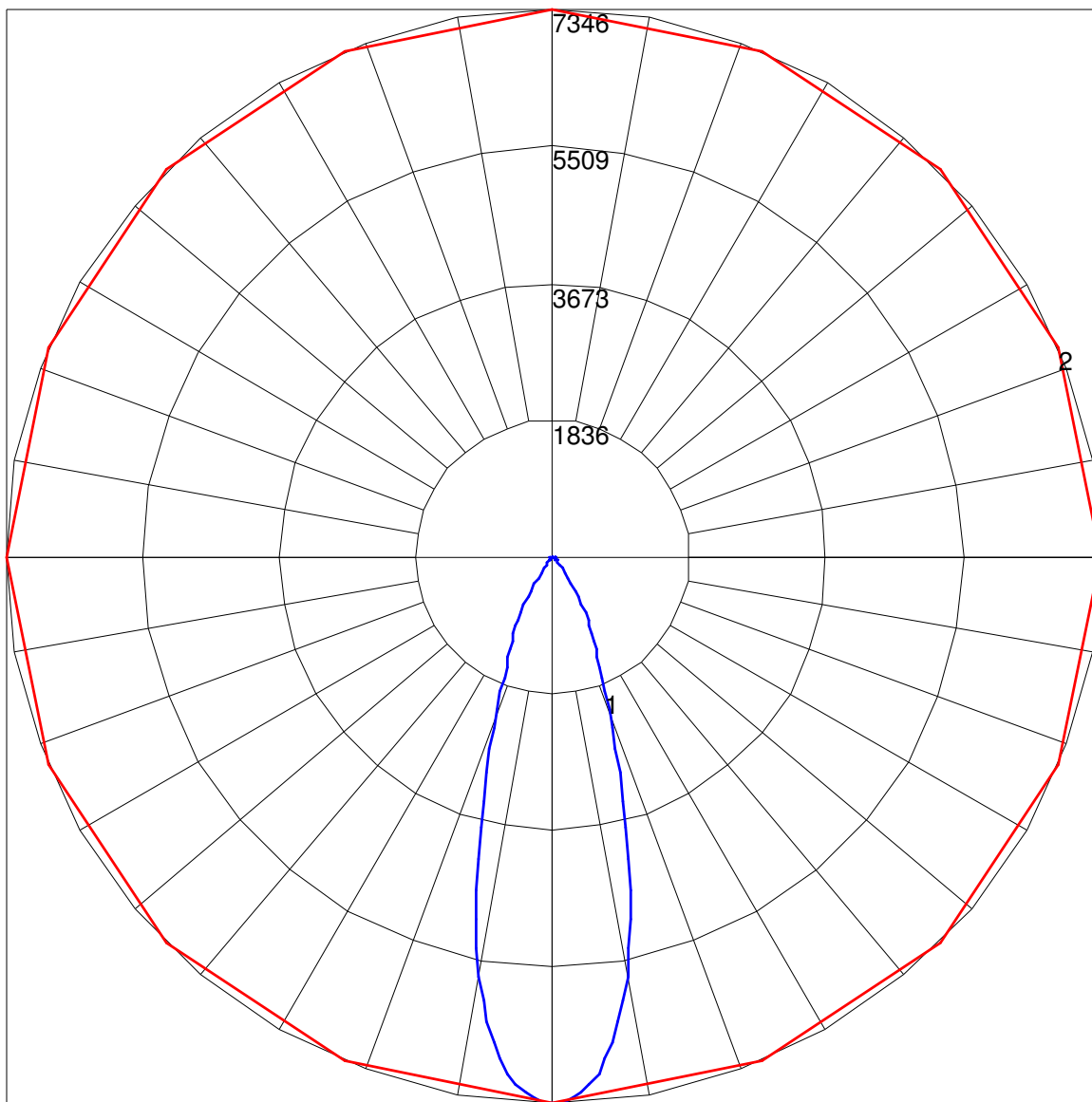
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1294.9	50.0
Downward House Side	1294.9	50.0
Downward Total	2589.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2590.0	100.0

POLAR GRAPH



Maximum Candela = 7345.582 Located At Horizontal Angle = 90, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

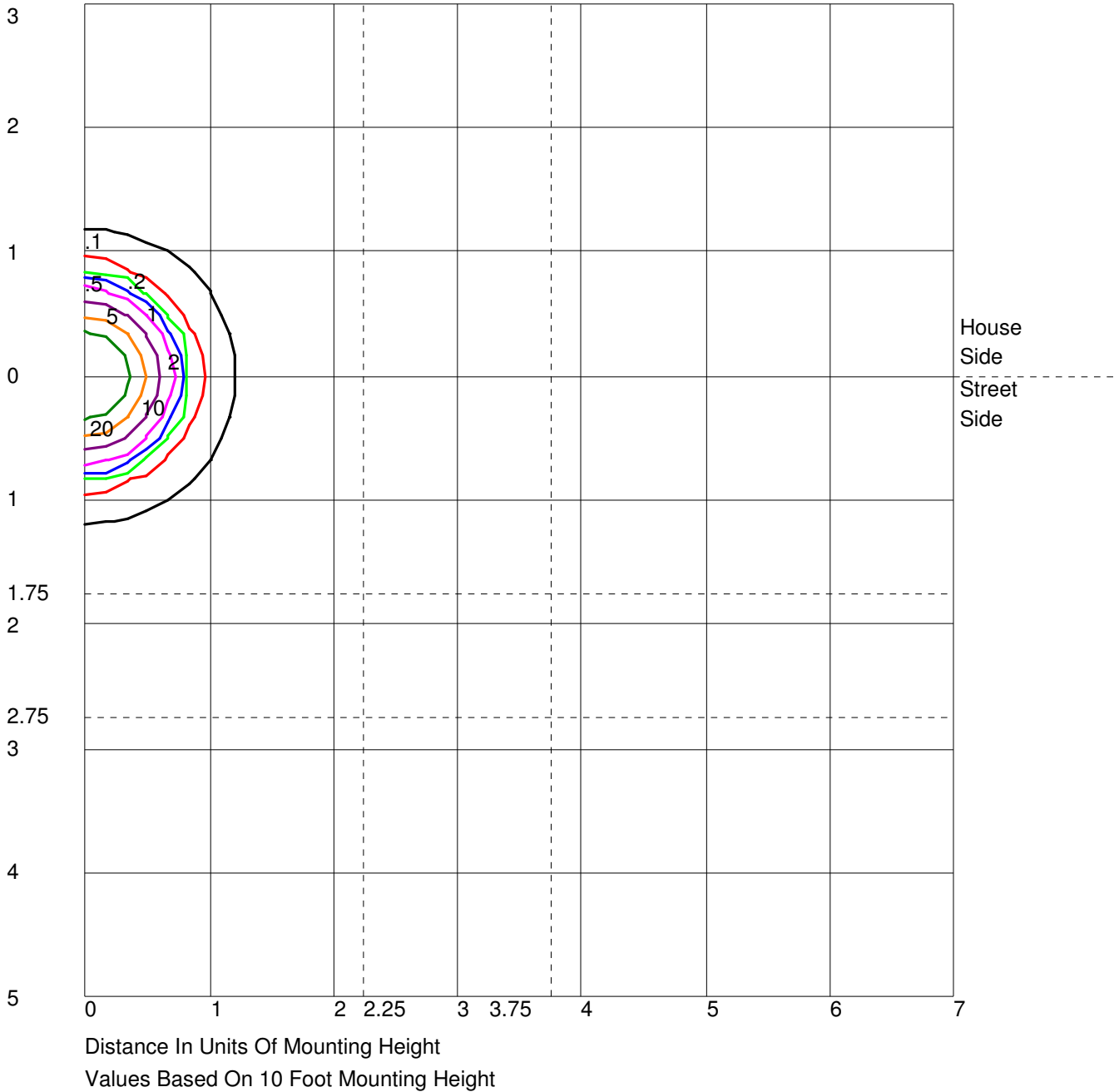


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