

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-835-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/MICROPRISM LENS
[LUMCAT] W4CR-xx-L15-835-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	1630
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4622.752
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	4622.752
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.149 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.745 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-835-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	716.4	N.A.	43.9
FM - Front-Medium (30-60)	93.6	N.A.	5.7
FH - Front-High (60-80)	4.7	N.A.	0.3
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	716.4	N.A.	43.9
BM - Back-Medium (30-60)	93.6	N.A.	5.7
BH - Back-High (60-80)	4.7	N.A.	0.3
BVH - Back-Very High (80-90)	0.3	N.A.	0.0
UL - Uplight-Low (90-100)	0.1	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	1630.1	N.A.	100.0
BUG Rating	B2-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	4622.752	4622.752	4622.752	4622.752	4622.752
1	4617.266	4617.056	4616.162	4615.935	4617.619
2	4594.585	4593.238	4592.349	4584.953	4583.413
3	4552.237	4545.354	4546.513	4542.180	4544.382
4	4484.652	4480.866	4477.024	4472.343	4476.212
5	4390.744	4396.506	4385.091	4377.899	4387.399
6	4274.414	4278.427	4270.036	4266.824	4273.558
7	4144.014	4138.477	4132.764	4133.819	4139.068
8	3985.297	3977.233	3975.069	3973.943	3981.742
9	3800.450	3795.763	3789.934	3789.923	3804.424
10	3593.567	3588.268	3584.443	3584.150	3602.714
11	3361.686	3357.248	3359.715	3363.910	3380.585
12	3111.644	3109.066	3115.127	3122.413	3144.227
13	2849.839	2852.279	2862.082	2872.095	2892.220
14	2585.197	2589.845	2606.813	2619.365	2634.732
15	2325.822	2334.112	2356.136	2370.449	2385.104
16	2078.247	2091.081	2116.074	2135.548	2143.138
17	1855.120	1868.262	1897.683	1913.111	1917.687
18	1655.562	1660.983	1693.599	1709.353	1714.210
19	1466.547	1482.555	1516.187	1529.114	1533.784
20	1308.195	1324.743	1354.423	1373.273	1377.573
21	1174.367	1188.553	1217.847	1232.491	1231.022
22	1062.083	1076.390	1101.793	1113.787	1111.447
23	970.311	980.848	1003.899	1014.513	1010.506
24	891.764	900.607	922.829	930.452	926.274
25	823.269	832.614	852.739	858.744	853.318
26	761.817	771.112	789.035	794.096	789.371
27	704.791	711.686	728.670	732.992	728.913
28	647.181	652.337	667.251	670.949	668.201
29	588.859	593.275	603.773	608.399	607.306
30	528.119	529.830	539.048	544.088	542.724
31	463.984	465.011	471.717	476.233	476.304
32	401.020	400.424	404.690	409.366	409.471
33	336.968	335.903	339.590	343.696	343.233
34	275.571	275.140	277.569	281.129	281.234
35	221.913	218.871	221.251	222.851	222.001
36	170.490	169.784	171.037	171.931	170.281
37	128.474	128.750	127.436	127.364	129.186
38	95.294	96.713	93.627	94.361	94.720
39	69.870	69.174	69.643	68.363	68.092
40	53.487	51.042	51.130	51.053	51.042
41	38.931	38.970	39.660	39.930	40.388
42	31.071	31.419	32.490	33.097	33.853
43	26.738	27.064	28.234	29.045	29.652
44	24.502	24.745	25.882	26.732	27.119
45	23.509	23.674	24.789	25.468	25.783
46	23.183	23.393	24.364	24.889	25.176
47	23.288	23.492	24.304	24.723	25.010
48	23.570	23.708	24.398	24.701	25.010
49	23.735	23.884	24.464	24.674	24.944
50	23.752	23.868	24.387	24.547	24.751
51	23.492	23.581	24.066	24.188	24.331
52	22.786	22.896	23.321	23.382	23.470

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-835-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	21.726	21.820	22.223	22.217	22.272
54	20.374	20.484	20.826	20.771	20.837
55	18.861	18.927	19.237	19.154	19.192
56	17.222	17.255	17.470	17.415	17.426
57	15.478	15.516	15.649	15.616	15.593
58	13.811	13.838	13.904	13.877	13.855
59	12.265	12.254	12.271	12.237	12.226
60	10.857	10.835	10.808	10.802	10.797
61	9.643	9.604	9.571	9.549	9.560
62	8.605	8.550	8.523	8.501	8.512
63	7.744	7.700	7.645	7.628	7.650
64	7.016	6.983	6.938	6.911	6.949
65	6.436	6.403	6.364	6.326	6.370
66	5.917	5.901	5.857	5.829	5.879
67	5.487	5.470	5.420	5.404	5.454
68	5.084	5.073	5.034	5.006	5.067
69	4.719	4.714	4.664	4.642	4.697
70	4.383	4.372	4.322	4.289	4.333
71	4.046	4.046	3.980	3.941	3.969
72	3.726	3.720	3.649	3.599	3.632
73	3.400	3.395	3.312	3.251	3.279
74	3.058	3.052	2.964	2.892	2.920
75	2.699	2.672	2.594	2.512	2.534
76	2.285	2.252	2.158	2.092	2.114
77	1.816	1.794	1.673	1.623	1.623
78	1.270	1.259	1.137	1.071	1.082
79	0.822	0.833	0.800	0.806	0.806
80	0.745	0.745	0.734	0.734	0.734
81	0.695	0.695	0.695	0.701	0.695
82	0.662	0.657	0.657	0.662	0.662
83	0.618	0.613	0.613	0.613	0.618
84	0.569	0.563	0.563	0.569	0.569
85	0.513	0.513	0.513	0.513	0.513
86	0.453	0.447	0.447	0.447	0.453
87	0.375	0.375	0.375	0.375	0.375
88	0.293	0.293	0.293	0.287	0.287
89	0.204	0.199	0.199	0.199	0.199
90	0.149	0.138	0.138	0.132	0.127
91	0.138	0.132	0.127	0.121	0.121
92	0.138	0.132	0.127	0.127	0.121
93	0.138	0.132	0.132	0.127	0.127
94	0.138	0.132	0.132	0.127	0.127
95	0.138	0.132	0.132	0.127	0.132
96	0.144	0.132	0.132	0.127	0.127
97	0.144	0.138	0.132	0.132	0.132
98	0.144	0.138	0.138	0.138	0.138
99	0.155	0.138	0.138	0.138	0.138
100	0.155	0.144	0.138	0.138	0.138
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

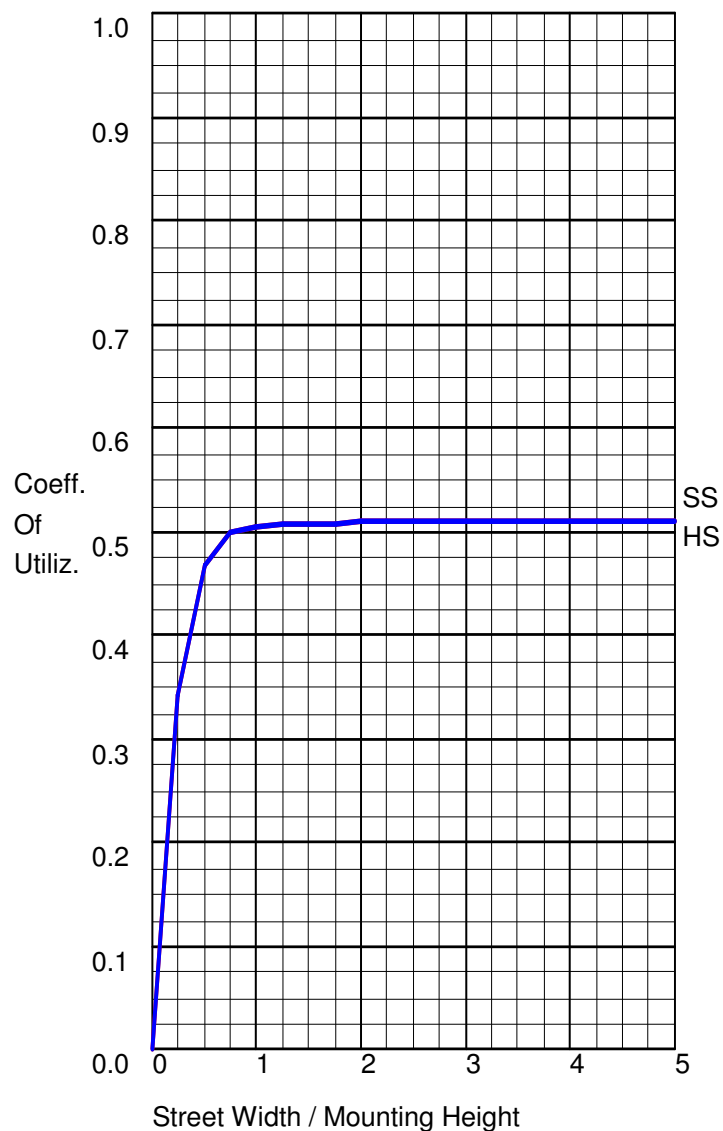
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-835-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L15-835-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

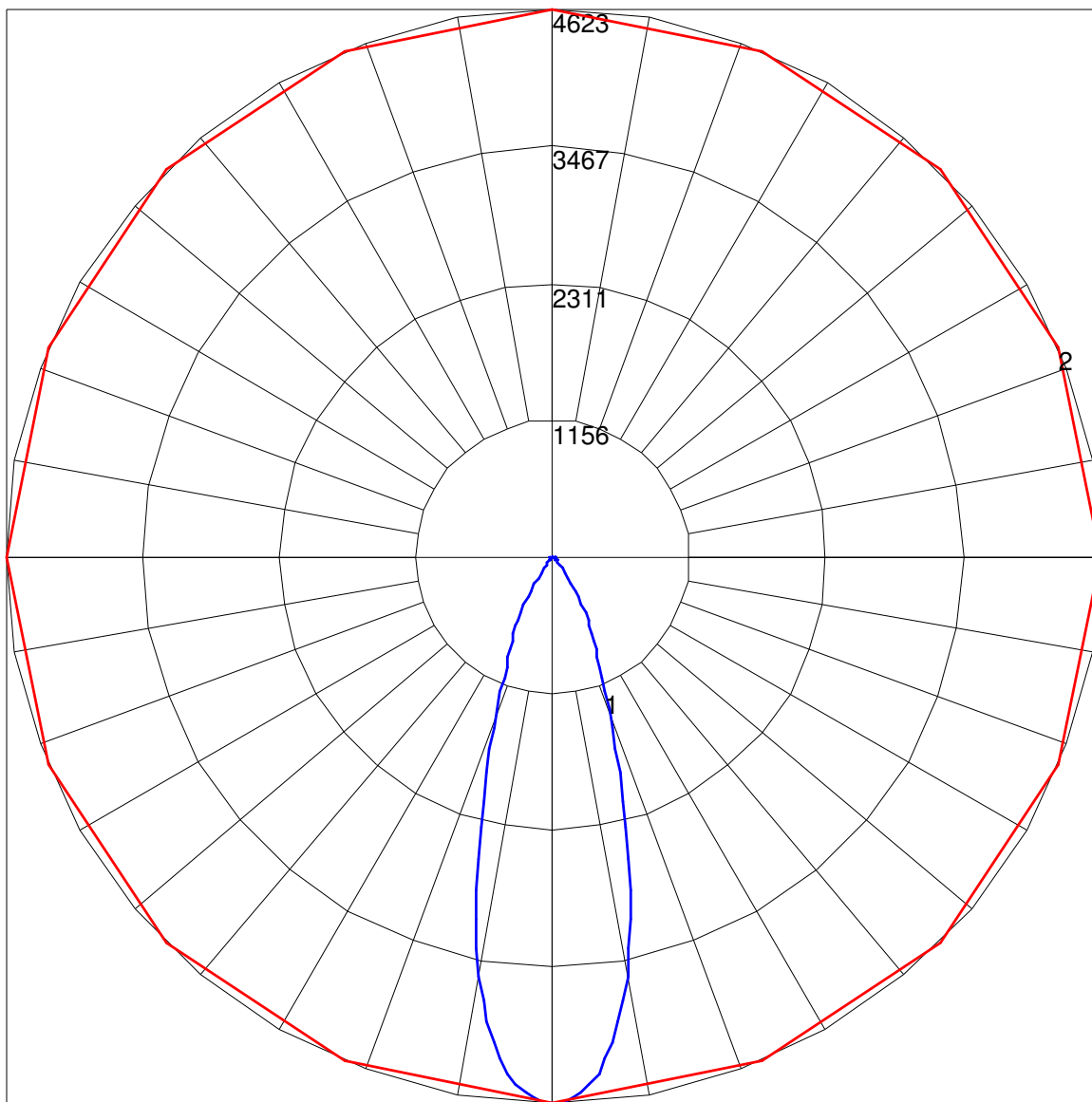
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	814.9	50.0
Downward House Side	814.9	50.0
Downward Total	1629.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1630.0	100.0

POLAR GRAPH



Maximum Candela = 4622.752 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

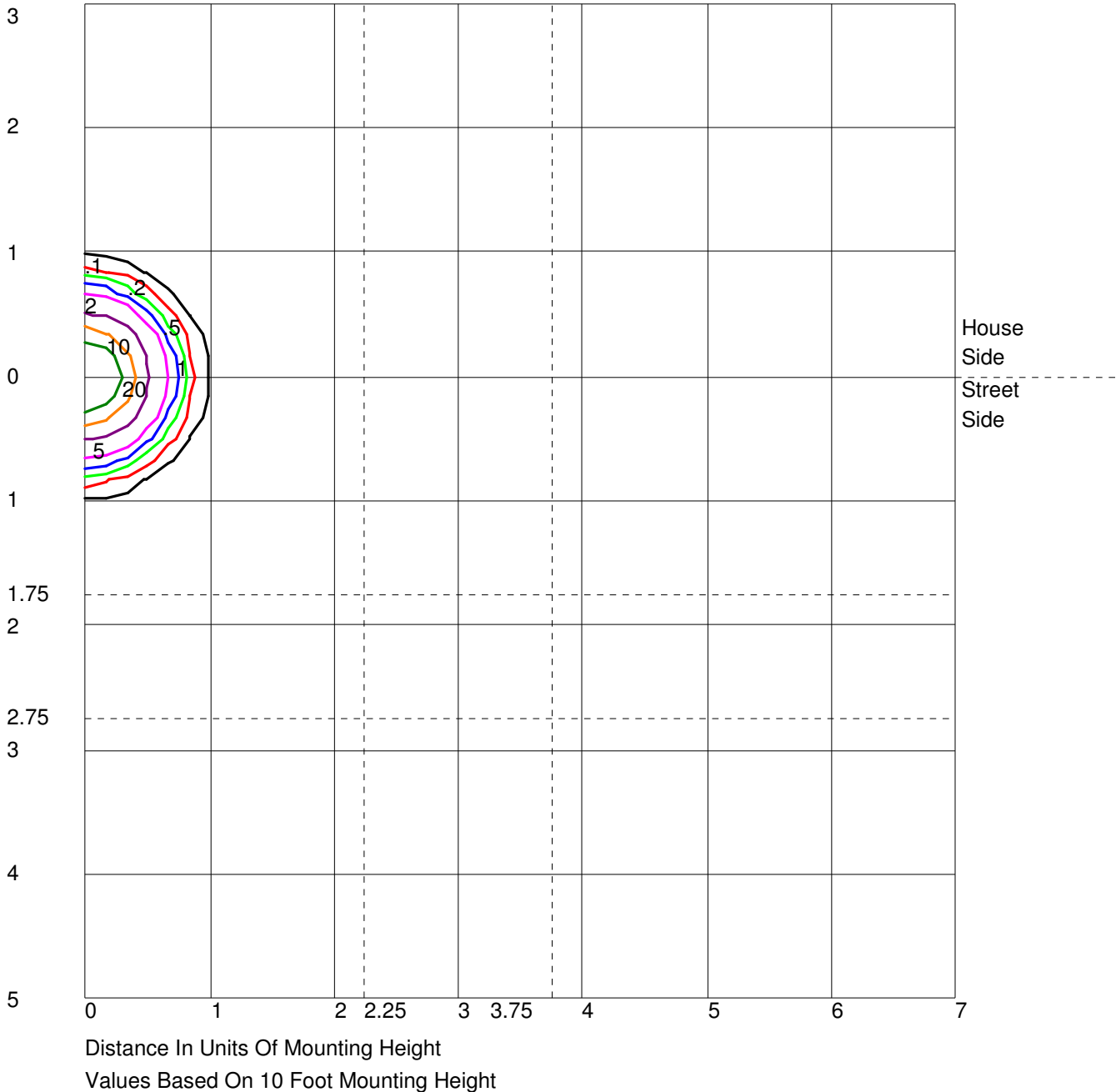


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