

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-850-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-L15-850-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	1614
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4576.525
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	4576.525
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.148 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.738 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-850-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	709.3	N.A.	44.0
FM - Front-Medium (30-60)	92.6	N.A.	5.7
FH - Front-High (60-80)	4.6	N.A.	0.3
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	709.3	N.A.	44.0
BM - Back-Medium (30-60)	92.6	N.A.	5.7
BH - Back-High (60-80)	4.6	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	1613.7	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	4576.525	4576.525	4576.525	4576.525	4576.525
1	4571.093	4570.886	4570.001	4569.777	4571.443
2	4548.639	4547.306	4546.426	4539.104	4537.579
3	4506.715	4499.901	4501.048	4496.758	4498.939
4	4439.806	4436.057	4432.254	4427.620	4431.451
5	4346.837	4352.542	4341.241	4334.121	4343.525
6	4231.670	4235.643	4227.337	4224.156	4230.823
7	4102.574	4097.093	4091.437	4092.481	4097.678
8	3945.445	3937.461	3935.319	3934.204	3941.925
9	3762.446	3757.806	3752.036	3752.025	3766.380
10	3557.632	3552.386	3548.599	3548.309	3566.687
11	3328.069	3323.676	3326.118	3330.271	3346.780
12	3080.528	3077.976	3083.976	3091.189	3112.785
13	2821.341	2823.756	2833.462	2843.374	2863.298
14	2559.346	2563.947	2580.745	2593.172	2608.385
15	2302.564	2310.771	2332.575	2346.745	2361.253
16	2057.465	2070.170	2094.914	2114.193	2121.707
17	1836.569	1849.580	1878.706	1893.980	1898.510
18	1639.007	1644.373	1676.663	1692.259	1697.068
19	1451.882	1467.729	1501.025	1513.823	1518.446
20	1295.113	1311.496	1340.879	1359.541	1363.798
21	1162.624	1176.668	1205.668	1220.166	1218.712
22	1051.462	1065.627	1090.775	1102.649	1100.332
23	960.608	971.040	993.860	1004.368	1000.401
24	882.846	891.601	913.601	921.148	917.011
25	815.036	824.288	844.212	850.157	844.785
26	754.198	763.401	781.144	786.156	781.478
27	697.744	704.569	721.383	725.662	721.624
28	640.709	645.813	660.579	664.240	661.519
29	582.970	587.342	597.736	602.315	601.233
30	522.838	524.532	533.658	538.647	537.297
31	459.344	460.361	467.000	471.470	471.541
32	397.010	396.419	400.644	405.272	405.376
33	333.598	332.544	336.194	340.260	339.801
34	272.815	272.389	274.793	278.318	278.422
35	219.694	216.683	219.038	220.623	219.781
36	168.785	168.086	169.326	170.212	168.578
37	127.189	127.462	126.162	126.090	127.894
38	94.341	95.745	92.691	93.418	93.773
39	69.171	68.483	68.947	67.679	67.411
40	52.952	50.531	50.619	50.542	50.531
41	38.542	38.580	39.263	39.531	39.985
42	30.760	31.105	32.165	32.766	33.514
43	26.471	26.793	27.951	28.755	29.356
44	24.257	24.498	25.624	26.465	26.848
45	23.274	23.438	24.542	25.214	25.525
46	22.951	23.159	24.121	24.640	24.924
47	23.055	23.257	24.061	24.476	24.760
48	23.334	23.471	24.154	24.454	24.760
49	23.498	23.645	24.219	24.427	24.695
50	23.514	23.629	24.143	24.301	24.503
51	23.257	23.345	23.826	23.946	24.088
52	22.558	22.667	23.088	23.148	23.236

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-850-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	21.509	21.602	22.001	21.995	22.050
54	20.170	20.279	20.618	20.563	20.629
55	18.673	18.738	19.044	18.962	19.000
56	17.050	17.082	17.295	17.241	17.252
57	15.323	15.361	15.492	15.459	15.438
58	13.672	13.700	13.765	13.738	13.716
59	12.142	12.131	12.148	12.115	12.104
60	10.749	10.727	10.700	10.694	10.689
61	9.547	9.508	9.476	9.454	9.465
62	8.519	8.465	8.437	8.416	8.426
63	7.667	7.623	7.568	7.552	7.574
64	6.946	6.913	6.869	6.842	6.880
65	6.372	6.339	6.301	6.262	6.306
66	5.858	5.842	5.798	5.771	5.820
67	5.432	5.415	5.366	5.350	5.399
68	5.033	5.022	4.984	4.956	5.017
69	4.672	4.667	4.618	4.596	4.650
70	4.339	4.328	4.279	4.246	4.290
71	4.006	4.006	3.940	3.902	3.929
72	3.689	3.683	3.612	3.563	3.596
73	3.366	3.361	3.279	3.219	3.246
74	3.027	3.022	2.934	2.863	2.891
75	2.672	2.645	2.568	2.486	2.508
76	2.262	2.230	2.137	2.071	2.093
77	1.798	1.776	1.656	1.607	1.607
78	1.257	1.246	1.126	1.060	1.071
79	0.814	0.825	0.792	0.798	0.798
80	0.738	0.738	0.727	0.727	0.727
81	0.689	0.689	0.689	0.694	0.689
82	0.656	0.650	0.650	0.656	0.656
83	0.612	0.607	0.607	0.607	0.612
84	0.563	0.557	0.557	0.563	0.563
85	0.508	0.508	0.508	0.508	0.508
86	0.448	0.443	0.443	0.443	0.448
87	0.372	0.372	0.372	0.372	0.372
88	0.290	0.290	0.290	0.284	0.284
89	0.202	0.197	0.197	0.197	0.197
90	0.148	0.137	0.137	0.131	0.126
91	0.137	0.131	0.126	0.120	0.120
92	0.137	0.131	0.126	0.126	0.120
93	0.137	0.131	0.131	0.126	0.126
94	0.137	0.131	0.131	0.126	0.126
95	0.137	0.131	0.131	0.126	0.131
96	0.142	0.131	0.131	0.126	0.126
97	0.142	0.137	0.131	0.131	0.131
98	0.142	0.137	0.137	0.137	0.137
99	0.153	0.137	0.137	0.137	0.137
100	0.153	0.142	0.137	0.137	0.137
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

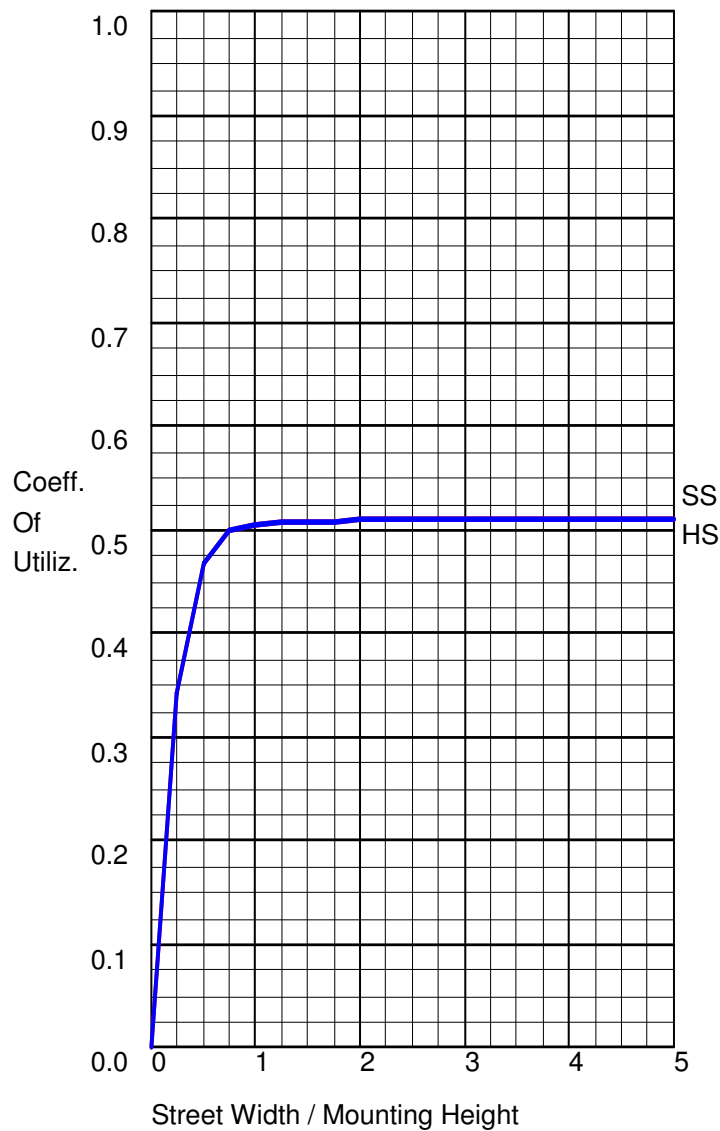
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-850-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L15-850-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

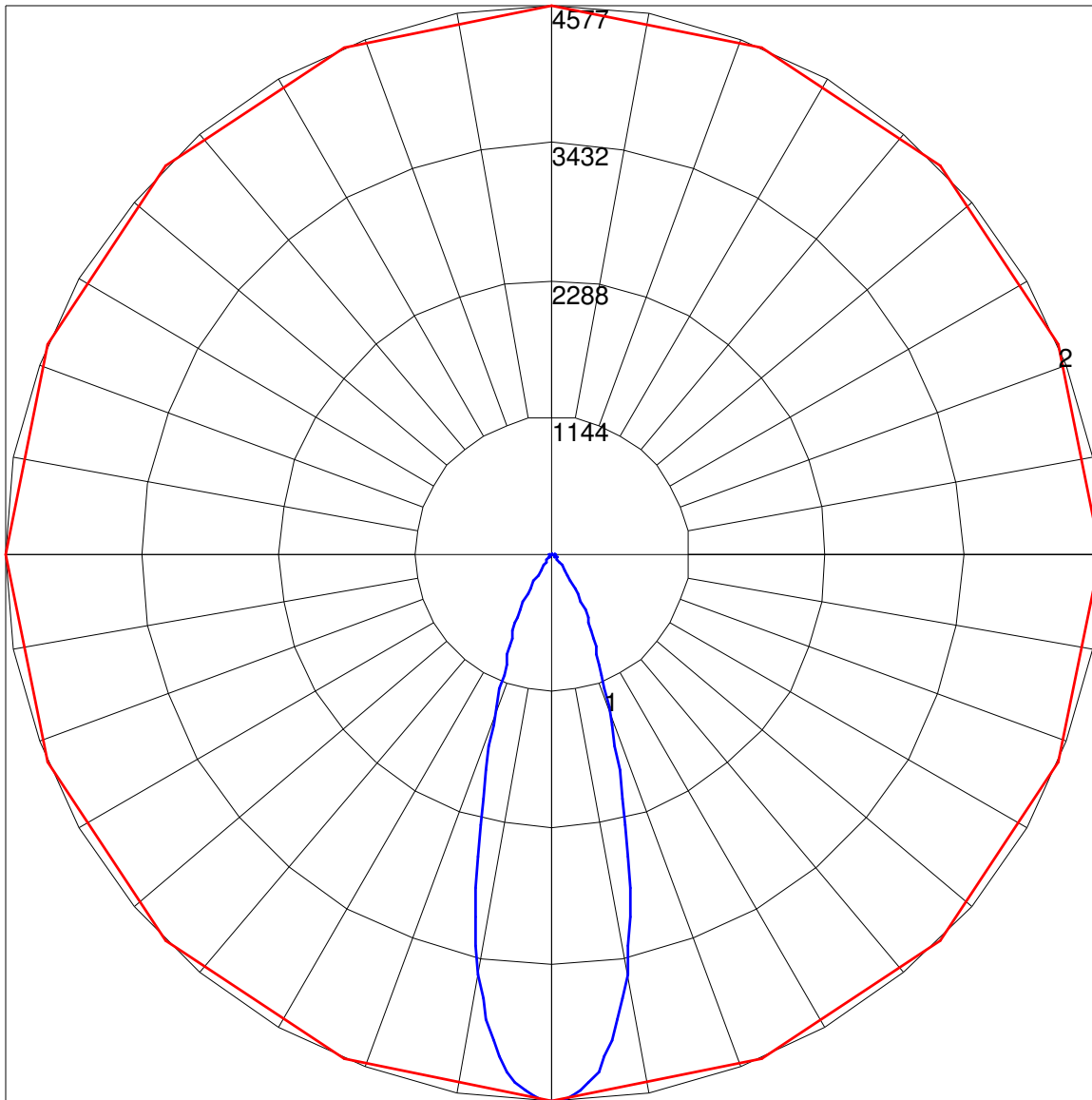
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	806.8	50.0
Downward House Side	806.8	50.0
Downward Total	1613.6	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1613.8	100.0

POLAR GRAPH



Maximum Candela = 4576.525 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

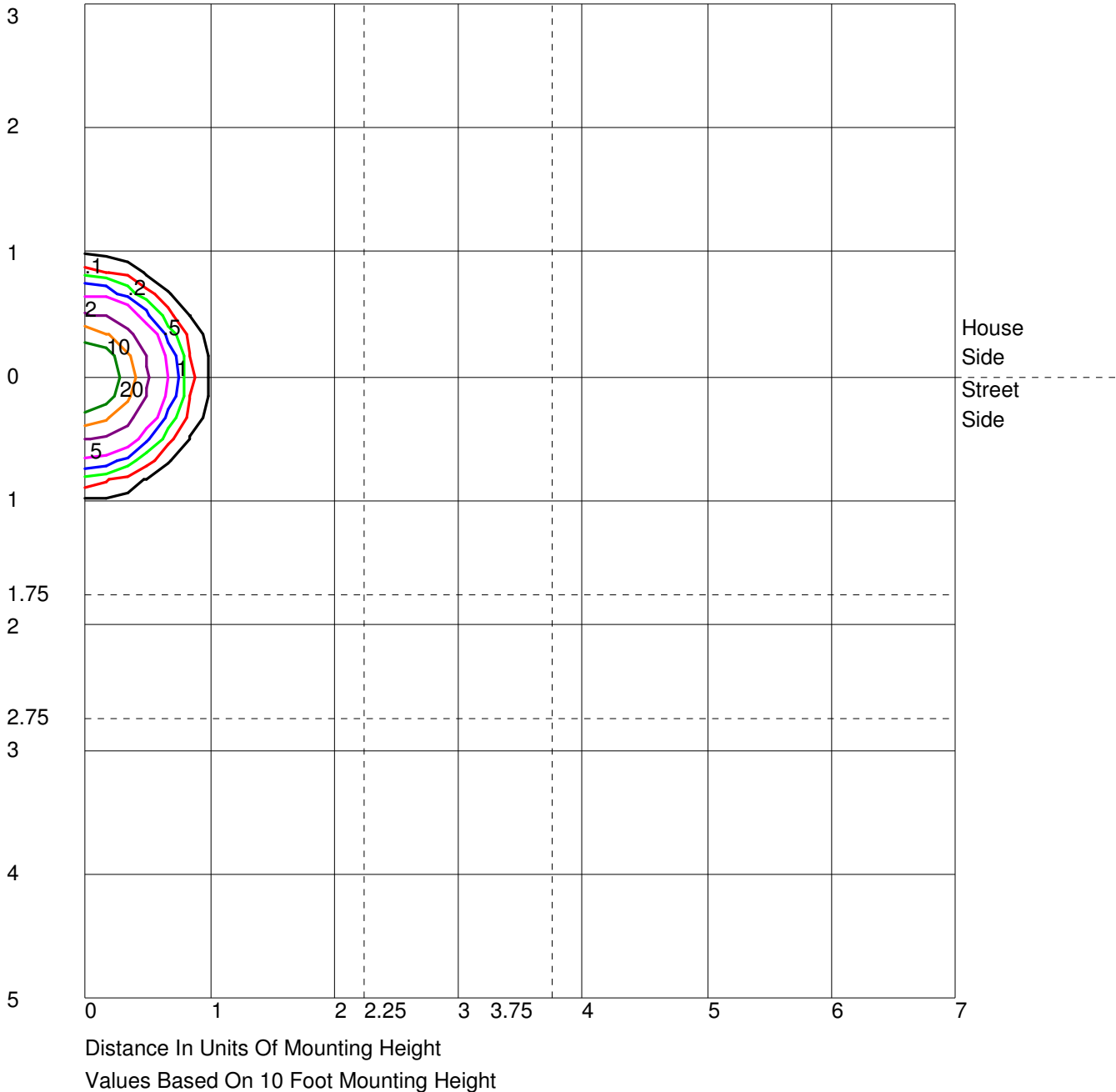


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