

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-940-XXX-DIM-UNV-S-XXX_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] W4CR_BARBARA-SPOT DISTRIBUTION
[TESTLAB] LEDIL INC.
[TESTDATE] 07/03/2025
[ISSUEDATE] 2025-07-15
[MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] W4CR-xx-L15-940-xxx-DIM-UNV-S-xxx
[LUMINAIRE] 4 INCH ROUND OUTDOOR LED CYLINDER
[MORE] WITH SPOT DISTRIBUTION & MICROPRISM LENS
[MORE] 0-10 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	1661
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7443.767
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	7443.767
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.076 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.338 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-940-XXX-DIM-UNV-S-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	753.8	N.A.	45.4
FM - Front-Medium (30-60)	74.1	N.A.	4.5
FH - Front-High (60-80)	2.2	N.A.	0.1
FVH - Front-Very High (80-90)	0.1	N.A.	0.0
BL - Back-Low (0-30)	753.8	N.A.	45.4
BM - Back-Medium (30-60)	74.1	N.A.	4.5
BH - Back-High (60-80)	2.2	N.A.	0.1
BVH - Back-Very High (80-90)	0.1	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	1660.5	N.A.	100.0
BUG Rating	B2-U1-G0		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles				
	0.0	22.5	45.0	67.5	90.0
0	7443.767	7443.767	7443.767	7443.767	7443.767
1	7430.152	7426.975	7427.613	7424.824	7427.679
2	7336.786	7335.503	7330.568	7328.242	7336.213
3	7174.789	7169.106	7164.733	7160.246	7178.119
4	6932.467	6930.606	6923.143	6920.922	6942.916
5	6608.337	6602.490	6600.389	6597.594	6625.336
6	6201.453	6199.297	6201.251	6205.460	6228.459
7	5723.241	5725.463	5739.176	5751.590	5760.832
8	5191.105	5200.773	5227.282	5249.746	5243.413
9	4641.205	4655.666	4697.094	4726.813	4702.734
10	4105.749	4123.289	4174.872	4211.234	4170.401
11	3596.082	3616.619	3676.521	3713.397	3662.732
12	3125.546	3153.141	3211.537	3255.127	3197.452
13	2716.298	2739.548	2801.028	2847.331	2789.684
14	2362.001	2381.370	2439.094	2483.814	2430.485
15	2056.792	2075.723	2133.032	2173.959	2120.826
16	1801.576	1821.693	1863.372	1899.866	1853.650
17	1598.178	1599.804	1641.124	1670.712	1635.119
18	1408.896	1421.583	1453.497	1477.429	1450.319
19	1259.128	1266.175	1300.665	1321.896	1302.008
20	1133.985	1143.401	1167.039	1184.863	1165.063
21	1032.490	1038.162	1058.273	1072.974	1054.108
22	946.325	951.740	967.451	977.272	961.282
23	874.293	877.126	889.223	897.417	883.022
24	811.546	813.058	822.650	827.192	814.778
25	754.565	756.437	762.519	763.883	753.440
26	703.184	703.048	705.477	704.555	695.449
27	650.150	647.475	648.425	646.705	638.391
28	593.518	590.395	589.440	588.435	582.392
29	533.905	530.984	529.914	531.656	527.021
30	470.509	469.472	468.626	472.223	469.598
31	406.480	406.731	406.960	412.774	411.208
32	344.640	345.819	346.371	353.997	354.685
33	284.263	286.534	288.532	296.246	299.696
34	228.297	232.189	234.782	243.009	248.392
35	180.503	183.817	184.909	192.682	200.319
36	135.684	140.428	143.829	148.966	157.400
37	100.687	106.757	108.171	112.713	121.971
38	74.090	78.310	79.473	84.833	91.881
39	56.223	56.889	58.881	62.397	66.589
40	40.637	42.406	45.152	47.701	49.999
41	30.663	32.132	33.999	36.117	38.464
42	23.867	25.095	26.968	28.605	30.467
43	19.320	20.188	21.929	23.370	24.724
44	16.164	16.792	18.299	19.582	20.166
45	13.871	14.346	15.657	16.645	16.907
46	12.206	12.556	13.697	14.412	14.576
47	10.924	11.213	12.185	12.681	12.769
48	9.908	10.187	10.984	11.338	11.388
49	9.111	9.340	10.056	10.279	10.285
50	8.462	8.663	9.280	9.428	9.400
51	7.888	8.079	8.631	8.734	8.680
52	7.364	7.528	8.014	8.047	7.932

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-940-XXX-DIM-UNV-S-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	6.884	7.031	7.452	7.419	7.266
54	6.464	6.605	6.955	6.862	6.687
55	6.098	6.218	6.513	6.382	6.169
56	5.770	5.858	6.120	5.967	5.710
57	5.459	5.530	5.737	5.590	5.323
58	5.164	5.224	5.399	5.252	5.000
59	4.891	4.935	5.066	4.935	4.700
60	4.618	4.657	4.760	4.629	4.400
61	4.345	4.378	4.471	4.345	4.127
62	4.072	4.100	4.182	4.056	3.843
63	3.799	3.832	3.898	3.772	3.570
64	3.532	3.559	3.625	3.494	3.297
65	3.270	3.303	3.352	3.226	3.041
66	3.013	3.041	3.090	2.970	2.779
67	2.768	2.800	2.844	2.735	2.544
68	2.544	2.566	2.615	2.495	2.315
69	2.326	2.353	2.397	2.282	2.096
70	2.118	2.145	2.195	2.069	1.883
71	1.922	1.943	1.993	1.867	1.681
72	1.731	1.752	1.791	1.670	1.490
73	1.539	1.561	1.594	1.468	1.310
74	1.343	1.365	1.387	1.277	1.114
75	1.141	1.157	1.163	1.075	0.912
76	0.944	0.955	0.928	0.873	0.726
77	0.770	0.775	0.726	0.677	0.557
78	0.595	0.579	0.502	0.464	0.409
79	0.371	0.382	0.366	0.360	0.344
80	0.338	0.338	0.338	0.333	0.322
81	0.317	0.317	0.322	0.317	0.300
82	0.300	0.300	0.306	0.300	0.284
83	0.278	0.278	0.284	0.284	0.267
84	0.257	0.257	0.257	0.251	0.246
85	0.224	0.229	0.235	0.229	0.218
86	0.197	0.197	0.197	0.197	0.191
87	0.164	0.164	0.164	0.164	0.158
88	0.126	0.126	0.131	0.126	0.120
89	0.093	0.087	0.093	0.087	0.087
90	0.076	0.066	0.071	0.066	0.066
91	0.071	0.066	0.066	0.066	0.060
92	0.066	0.066	0.066	0.066	0.060
93	0.071	0.066	0.066	0.066	0.060
94	0.071	0.066	0.066	0.066	0.060
95	0.071	0.066	0.066	0.066	0.060
96	0.071	0.071	0.066	0.066	0.060
97	0.071	0.071	0.066	0.066	0.066
98	0.071	0.071	0.066	0.066	0.060
99	0.071	0.071	0.066	0.071	0.060
100	0.071	0.071	0.066	0.071	0.066
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

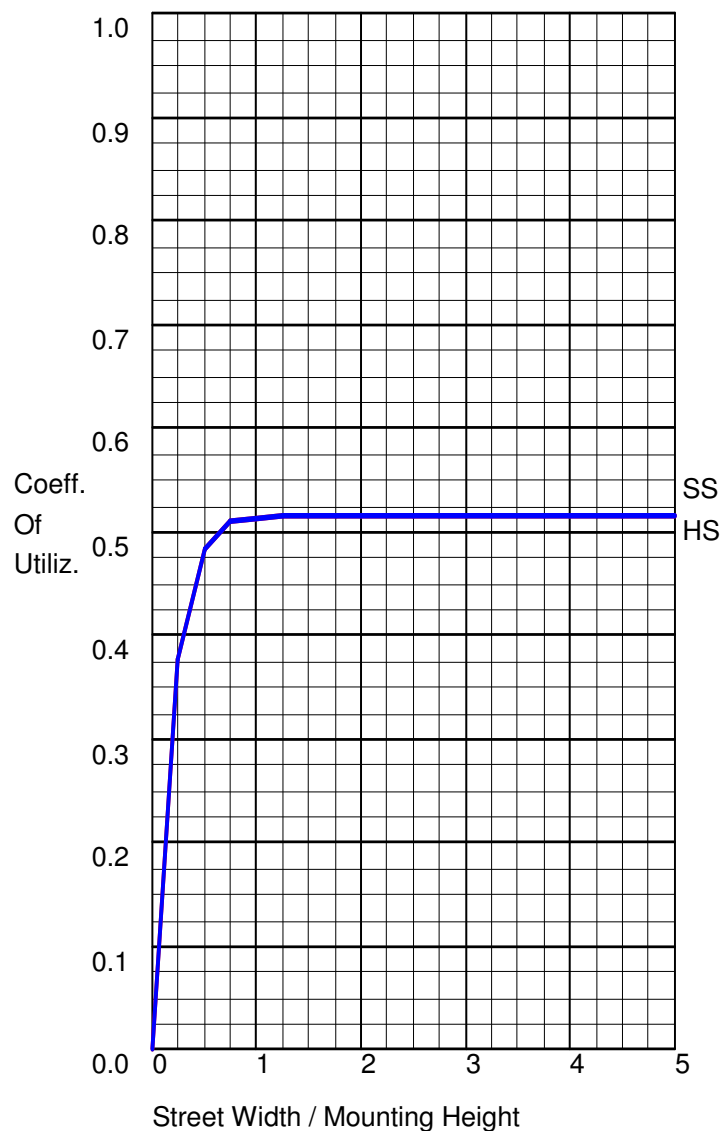
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-940-XXX-DIM-UNV-S-XXX_IES****CANDELA TABULATION - (Cont.)**

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-L15-940-XXX-DIM-UNV-S-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

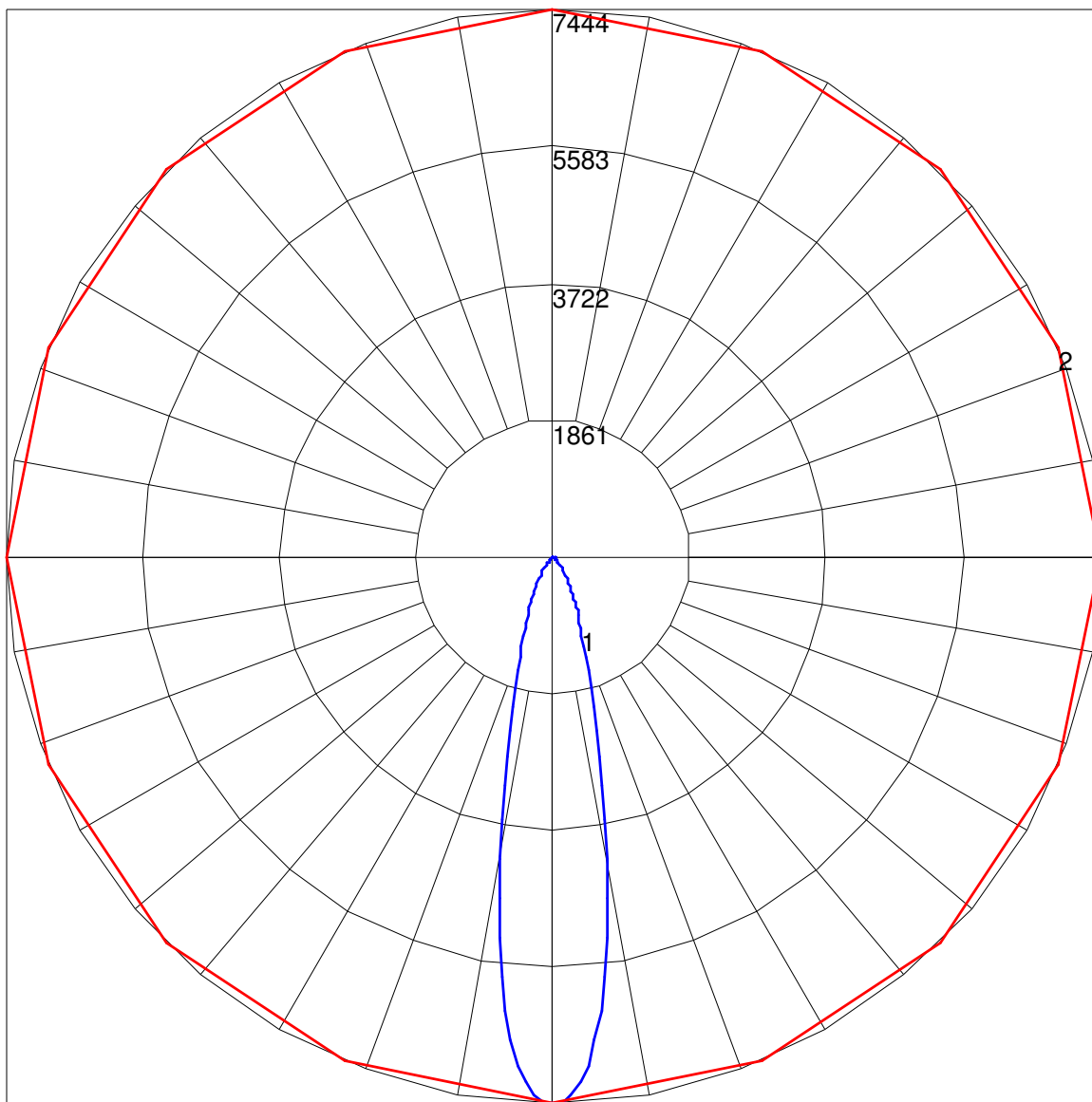
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	830.2	50.0
Downward House Side	830.2	50.0
Downward Total	1660.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	1660.4	100.0

POLAR GRAPH



Maximum Candela = 7443.767 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

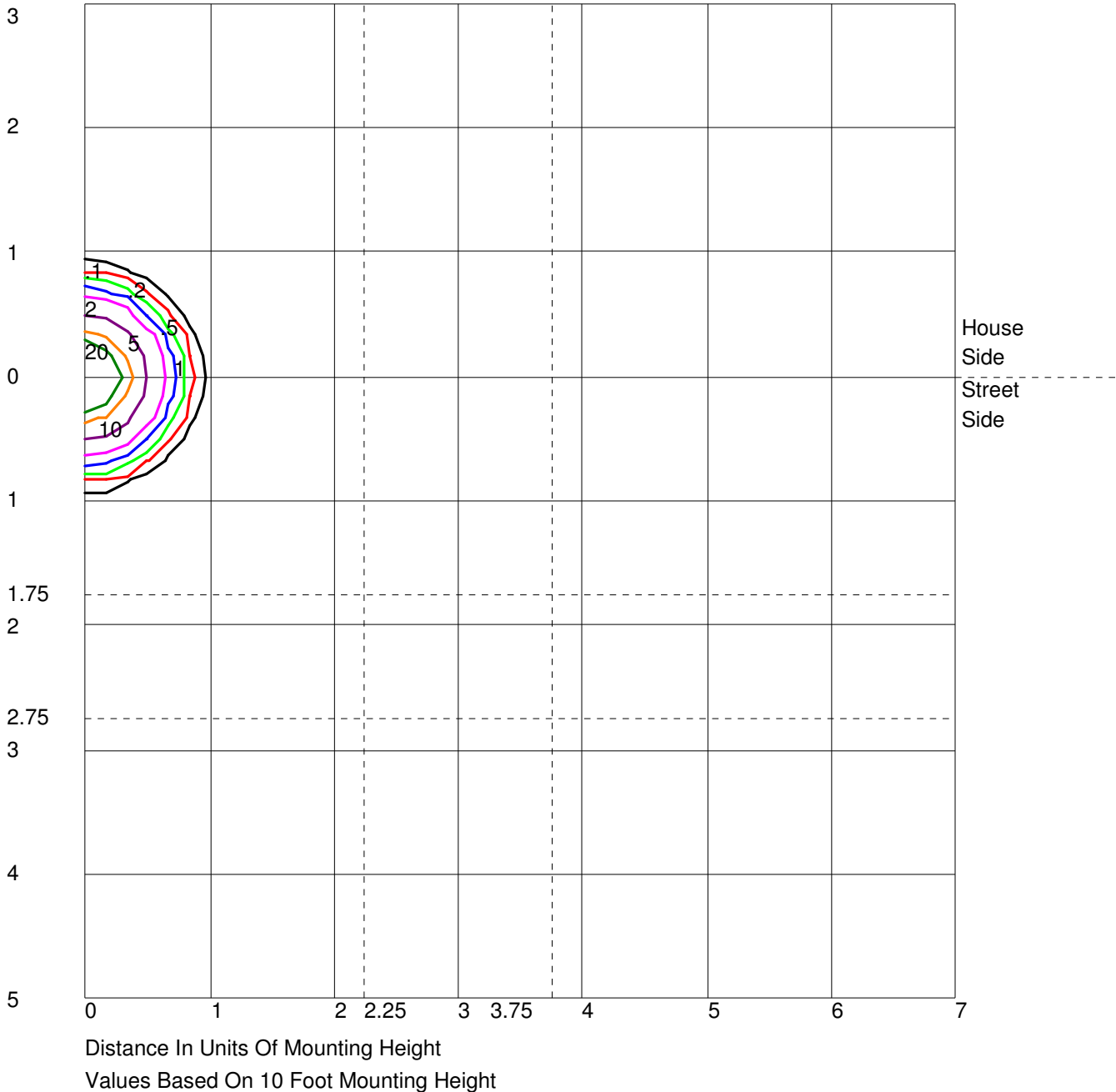


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