

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-940-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-L25-940-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	2748
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12317.869
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	12317.869
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.126 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.56 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-940-XXX-DIM-UNV-S-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1247.4	N.A.	45.4
FM - Front-Medium (30-60)	122.6	N.A.	4.5
FH - Front-High (60-80)	3.7	N.A.	0.1
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	1247.4	N.A.	45.4
BM - Back-Medium (30-60)	122.6	N.A.	4.5
BH - Back-High (60-80)	3.7	N.A.	0.1
BVH - Back-Very High (80-90)	0.2	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	2747.9	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	12317.8691	2317.8691	2317.8691	2317.8691	2317.8691
1	12295.3401	2290.0821	2291.1391	2286.5231	2291.247
2	12140.8391	2138.7161	2130.5491	2126.7011	2139.890
3	11872.7681	1863.3641	1856.1281	1848.7021	1878.278
4	11471.7771	1468.6961	1456.3471	1452.6711	1489.067
5	10935.4091	925.7341	922.2561	917.6311	963.539
6	10262.1011	258.5331	261.7671	268.7321	306.790
7	9470.761	9474.438	9497.130	9517.672	9532.966
8	8590.187	8606.186	8650.053	8687.226	8676.747
9	7680.218	7704.148	7772.704	7821.883	7782.036
10	6794.152	6823.177	6908.535	6968.708	6901.137
11	5950.761	5984.745	6083.870	6144.892	6061.052
12	5172.122	5217.786	5314.418	5386.551	5291.112
13	4494.903	4533.377	4635.113	4711.735	4616.341
14	3908.615	3940.666	4036.187	4110.190	4021.941
15	3403.558	3434.886	3529.720	3597.445	3509.521
16	2981.230	3014.518	3083.490	3143.879	3067.401
17	2644.648	2647.340	2715.715	2764.677	2705.778
18	2331.427	2352.421	2405.232	2444.835	2399.974
19	2083.591	2095.254	2152.328	2187.459	2154.550
20	1876.506	1892.089	1931.204	1960.699	1927.934
21	1708.554	1717.940	1751.220	1775.547	1744.327
22	1565.968	1574.930	1600.928	1617.180	1590.720
23	1446.770	1451.459	1471.477	1485.037	1461.215
24	1342.939	1345.441	1361.313	1368.829	1348.286
25	1248.646	1251.745	1261.808	1264.067	1246.785
26	1163.622	1163.397	1167.416	1165.890	1150.822
27	1075.861	1071.435	1073.007	1070.161	1056.403
28	982.147	976.980	975.399	973.737	963.737
29	883.501	878.668	876.897	879.779	872.109
30	778.594	776.877	775.477	781.430	777.085
31	672.639	673.055	673.434	683.055	680.462
32	570.307	572.258	573.171	585.790	586.929
33	470.396	474.154	477.460	490.224	495.934
34	377.784	384.225	388.516	402.129	411.036
35	298.695	304.178	305.985	318.849	331.487
36	224.529	232.379	238.007	246.508	260.465
37	166.615	176.660	179.000	186.516	201.837
38	122.604	129.586	131.511	140.382	152.044
39	93.037	94.139	97.436	103.254	110.191
40	67.246	70.173	74.717	78.935	82.738
41	50.742	53.172	56.261	59.766	63.650
42	39.495	41.527	44.626	47.336	50.416
43	31.970	33.406	36.288	38.673	40.913
44	26.748	27.787	30.281	32.403	33.370
45	22.954	23.740	25.908	27.543	27.977
46	20.199	20.777	22.665	23.849	24.120
47	18.076	18.555	20.163	20.985	21.130
48	16.396	16.857	18.176	18.763	18.844
49	15.077	15.456	16.640	17.010	17.019
50	14.002	14.336	15.357	15.601	15.556
51	13.053	13.370	14.282	14.454	14.363
52	12.186	12.457	13.261	13.315	13.126

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-940-XXX-DIM-UNV-S-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	11.391	11.635	12.331	12.277	12.024
54	10.696	10.931	11.509	11.355	11.066
55	10.090	10.289	10.777	10.560	10.208
56	9.548	9.693	10.127	9.874	9.449
57	9.034	9.151	9.494	9.250	8.808
58	8.546	8.645	8.934	8.690	8.275
59	8.094	8.166	8.383	8.166	7.778
60	7.642	7.706	7.877	7.660	7.281
61	7.191	7.245	7.398	7.191	6.829
62	6.739	6.784	6.920	6.712	6.360
63	6.287	6.342	6.450	6.242	5.908
64	5.845	5.890	5.998	5.781	5.456
65	5.411	5.465	5.547	5.339	5.032
66	4.987	5.032	5.113	4.914	4.598
67	4.580	4.634	4.706	4.526	4.210
68	4.210	4.246	4.327	4.128	3.830
69	3.848	3.893	3.966	3.776	3.469
70	3.505	3.550	3.631	3.424	3.117
71	3.180	3.216	3.297	3.089	2.782
72	2.864	2.900	2.963	2.764	2.466
73	2.547	2.584	2.638	2.430	2.168
74	2.222	2.258	2.295	2.114	1.843
75	1.888	1.915	1.924	1.780	1.509
76	1.563	1.581	1.536	1.445	1.201
77	1.274	1.283	1.201	1.120	0.921
78	0.985	0.958	0.831	0.768	0.678
79	0.614	0.632	0.605	0.596	0.569
80	0.560	0.560	0.560	0.551	0.533
81	0.524	0.524	0.533	0.524	0.497
82	0.497	0.497	0.506	0.497	0.470
83	0.461	0.461	0.470	0.470	0.443
84	0.425	0.425	0.425	0.416	0.407
85	0.370	0.379	0.388	0.379	0.361
86	0.325	0.325	0.325	0.325	0.316
87	0.271	0.271	0.271	0.271	0.262
88	0.208	0.208	0.217	0.208	0.199
89	0.154	0.145	0.154	0.145	0.145
90	0.126	0.108	0.117	0.108	0.108
91	0.117	0.108	0.108	0.108	0.099
92	0.108	0.108	0.108	0.108	0.099
93	0.117	0.108	0.108	0.108	0.099
94	0.117	0.108	0.108	0.108	0.099
95	0.117	0.108	0.108	0.108	0.099
96	0.117	0.117	0.108	0.108	0.099
97	0.117	0.117	0.108	0.108	0.108
98	0.117	0.117	0.108	0.108	0.099
99	0.117	0.117	0.108	0.117	0.099
100	0.117	0.117	0.108	0.117	0.108
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

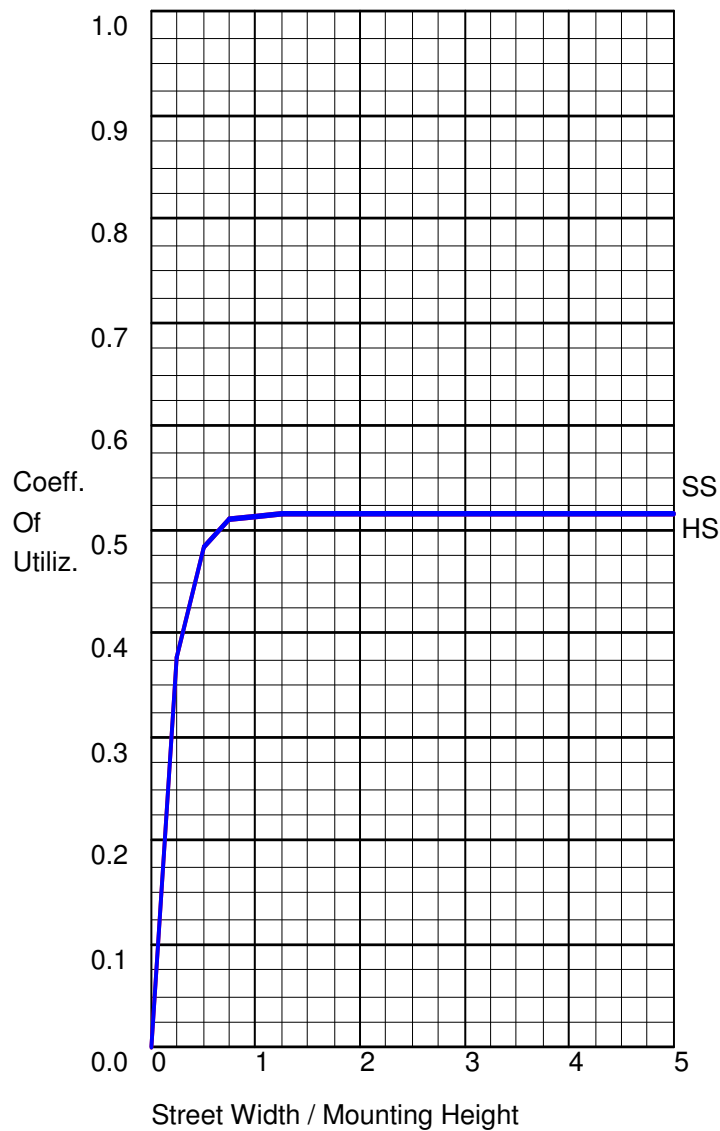
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-940-XXX-DIM-UNV-S-XXX_IES****CANDELA TABULATION - (Cont.)**

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-L25-940-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

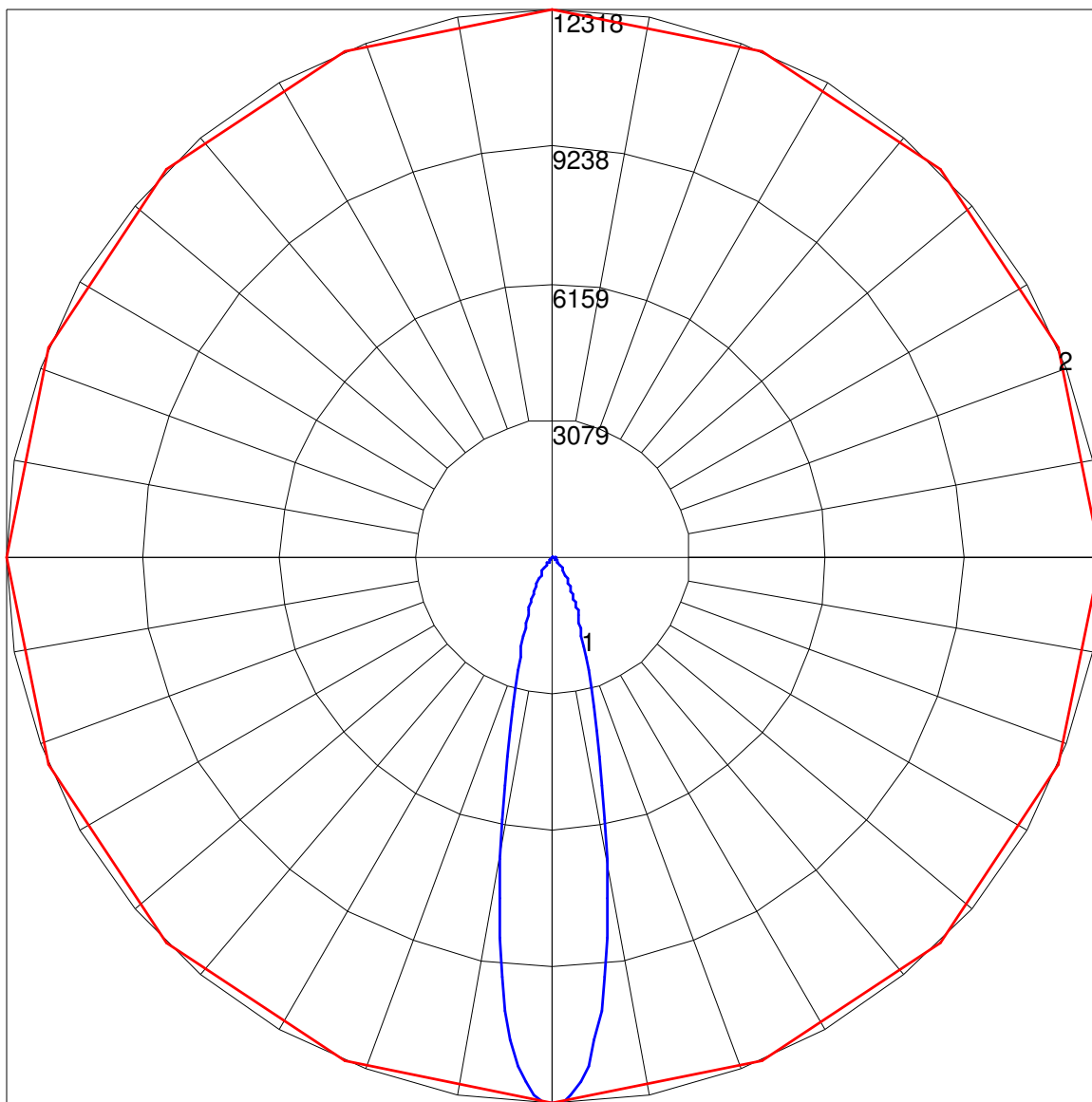
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1373.9	50.0
Downward House Side	1373.9	50.0
Downward Total	2747.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2748.0	100.0

POLAR GRAPH



Maximum Candela = 12317.869 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

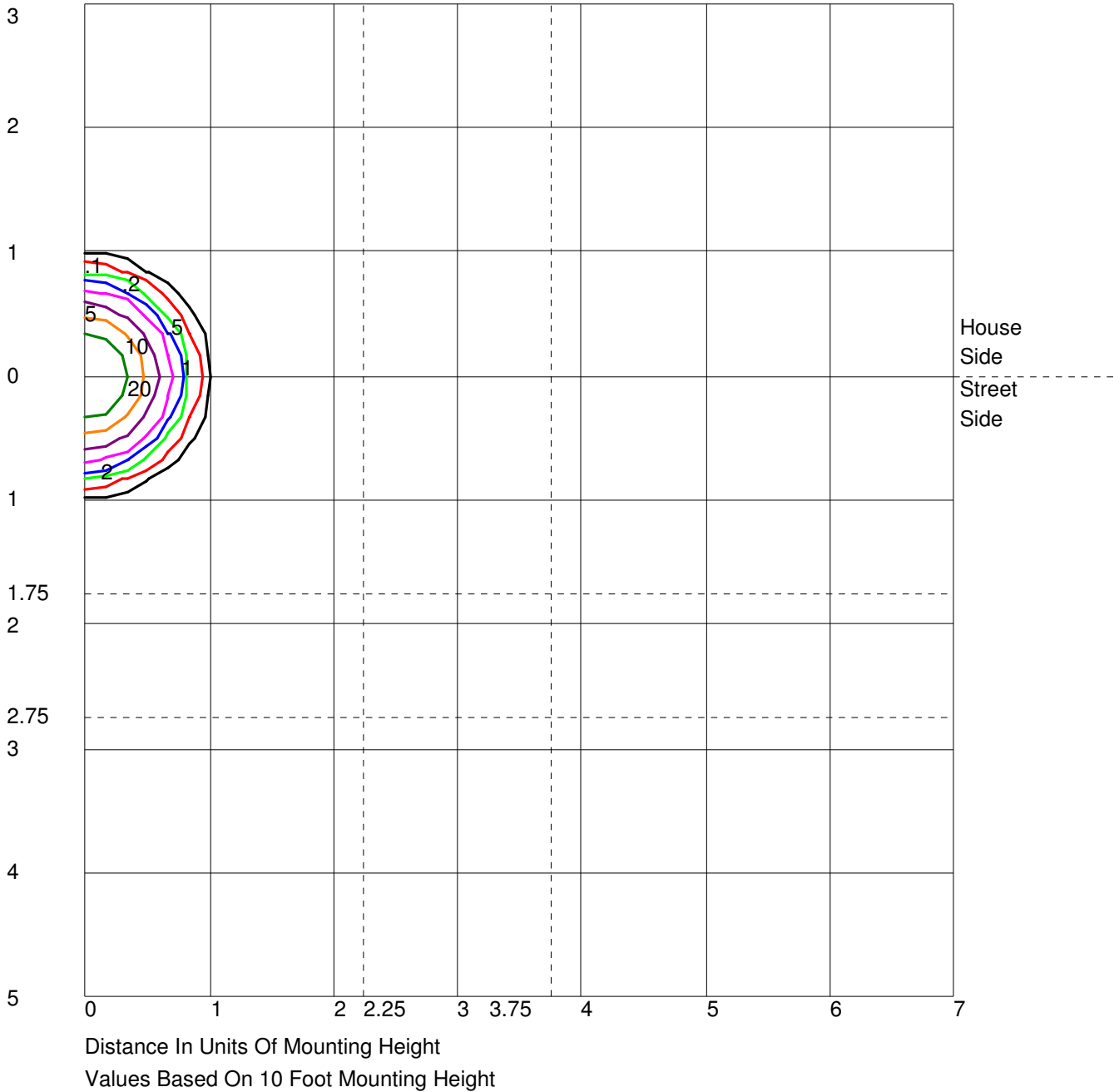


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