

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-840-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-L20-840-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	2195
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6224.352
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	6224.352
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.201 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.003 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-840-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	964.6	N.A.	44.0
FM - Front-Medium (30-60)	126.0	N.A.	5.7
FH - Front-High (60-80)	6.3	N.A.	0.3
FVH - Front-Very High (80-90)	0.4	N.A.	0.0
BL - Back-Low (0-30)	964.6	N.A.	44.0
BM - Back-Medium (30-60)	126.0	N.A.	5.7
BH - Back-High (60-80)	6.3	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	2194.8	N.A.	100.0
BUG Rating	B2-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-840-XXX-DIM-UNV-N-XXX_.IES****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	6224.352	6224.352	6224.352	6224.352	6224.352
1	6216.964	6216.682	6215.478	6215.173	6217.440
2	6186.425	6184.612	6183.415	6173.456	6171.383
3	6129.405	6120.137	6121.698	6115.864	6118.829
4	6038.406	6033.307	6028.134	6021.832	6027.042
5	5911.961	5919.721	5904.351	5894.667	5907.458
6	5755.328	5760.731	5749.434	5745.108	5754.176
7	5579.749	5572.295	5564.603	5566.022	5573.090
8	5366.044	5355.185	5352.272	5350.756	5361.257
9	5117.154	5110.844	5102.996	5102.981	5122.505
10	4838.595	4831.460	4826.310	4825.916	4850.910
11	4526.376	4520.400	4523.722	4529.371	4551.824
12	4189.704	4186.233	4194.394	4204.205	4233.577
13	3837.195	3840.480	3853.679	3867.161	3894.259
14	3480.865	3487.123	3509.970	3526.871	3547.562
15	3131.626	3142.789	3172.444	3191.715	3211.448
16	2798.277	2815.557	2849.210	2875.430	2885.650
17	2497.845	2515.541	2555.155	2575.928	2582.089
18	2229.148	2236.447	2280.364	2301.575	2308.116
19	1974.647	1996.201	2041.485	2058.891	2065.179
20	1761.432	1783.714	1823.677	1849.058	1854.848
21	1581.239	1600.339	1639.782	1659.500	1657.523
22	1430.053	1449.317	1483.520	1499.670	1496.519
23	1306.485	1320.673	1351.710	1366.002	1360.606
24	1200.725	1212.631	1242.553	1252.817	1247.191
25	1108.498	1121.081	1148.179	1156.265	1148.959
26	1025.756	1038.271	1062.404	1069.219	1062.857
27	948.974	958.256	981.125	986.945	981.452
28	871.404	878.345	898.427	903.407	899.705
29	792.875	798.821	812.957	819.185	817.713
30	711.091	713.395	725.807	732.592	730.757
31	624.736	626.119	635.149	641.228	641.325
32	539.957	539.154	544.899	551.195	551.336
33	453.714	452.279	457.244	462.774	462.149
34	371.045	370.466	373.736	378.530	378.671
35	298.797	294.702	297.905	300.060	298.916
36	229.558	228.607	230.294	231.498	229.276
37	172.985	173.356	171.587	171.491	173.943
38	128.310	130.220	126.065	127.054	127.537
39	94.077	93.140	93.772	92.048	91.684
40	72.018	68.726	68.845	68.740	68.726
41	52.419	52.471	53.400	53.765	54.381
42	41.836	42.304	43.746	44.563	45.582
43	36.002	36.440	38.016	39.108	39.926
44	32.992	33.319	34.850	35.994	36.514
45	31.654	31.877	33.378	34.292	34.716
46	31.215	31.498	32.806	33.512	33.898
47	31.356	31.631	32.724	33.289	33.675
48	31.736	31.921	32.850	33.259	33.675
49	31.958	32.159	32.940	33.222	33.586
50	31.981	32.137	32.835	33.051	33.326
51	31.631	31.750	32.404	32.568	32.761
52	30.680	30.829	31.401	31.483	31.602

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-840-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	29.253	29.380	29.922	29.915	29.989
54	27.432	27.581	28.042	27.967	28.057
55	25.396	25.485	25.901	25.790	25.842
56	23.188	23.233	23.523	23.449	23.463
57	20.840	20.892	21.070	21.026	20.996
58	18.595	18.633	18.722	18.685	18.655
59	16.514	16.499	16.522	16.477	16.462
60	14.619	14.589	14.552	14.545	14.537
61	12.984	12.932	12.887	12.858	12.873
62	11.587	11.512	11.475	11.446	11.460
63	10.427	10.368	10.294	10.271	10.301
64	9.446	9.402	9.342	9.305	9.357
65	8.666	8.621	8.569	8.517	8.577
66	7.967	7.945	7.886	7.848	7.915
67	7.388	7.365	7.298	7.276	7.343
68	6.845	6.830	6.778	6.741	6.823
69	6.355	6.347	6.280	6.250	6.325
70	5.901	5.886	5.819	5.775	5.834
71	5.448	5.448	5.359	5.307	5.344
72	5.017	5.009	4.913	4.846	4.890
73	4.578	4.571	4.459	4.378	4.415
74	4.117	4.110	3.991	3.894	3.932
75	3.634	3.597	3.493	3.382	3.411
76	3.077	3.032	2.906	2.817	2.847
77	2.445	2.415	2.252	2.185	2.185
78	1.709	1.695	1.531	1.442	1.457
79	1.107	1.122	1.078	1.085	1.085
80	1.003	1.003	0.988	0.988	0.988
81	0.936	0.936	0.936	0.944	0.936
82	0.892	0.884	0.884	0.892	0.892
83	0.832	0.825	0.825	0.825	0.832
84	0.766	0.758	0.758	0.766	0.766
85	0.691	0.691	0.691	0.691	0.691
86	0.609	0.602	0.602	0.602	0.609
87	0.505	0.505	0.505	0.505	0.505
88	0.394	0.394	0.394	0.386	0.386
89	0.275	0.268	0.268	0.268	0.268
90	0.201	0.186	0.186	0.178	0.171
91	0.186	0.178	0.171	0.164	0.164
92	0.186	0.178	0.171	0.171	0.164
93	0.186	0.178	0.178	0.171	0.171
94	0.186	0.178	0.178	0.171	0.171
95	0.186	0.178	0.178	0.171	0.178
96	0.193	0.178	0.178	0.171	0.171
97	0.193	0.186	0.178	0.178	0.178
98	0.193	0.186	0.186	0.186	0.186
99	0.208	0.186	0.186	0.186	0.186
100	0.208	0.193	0.186	0.186	0.186
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

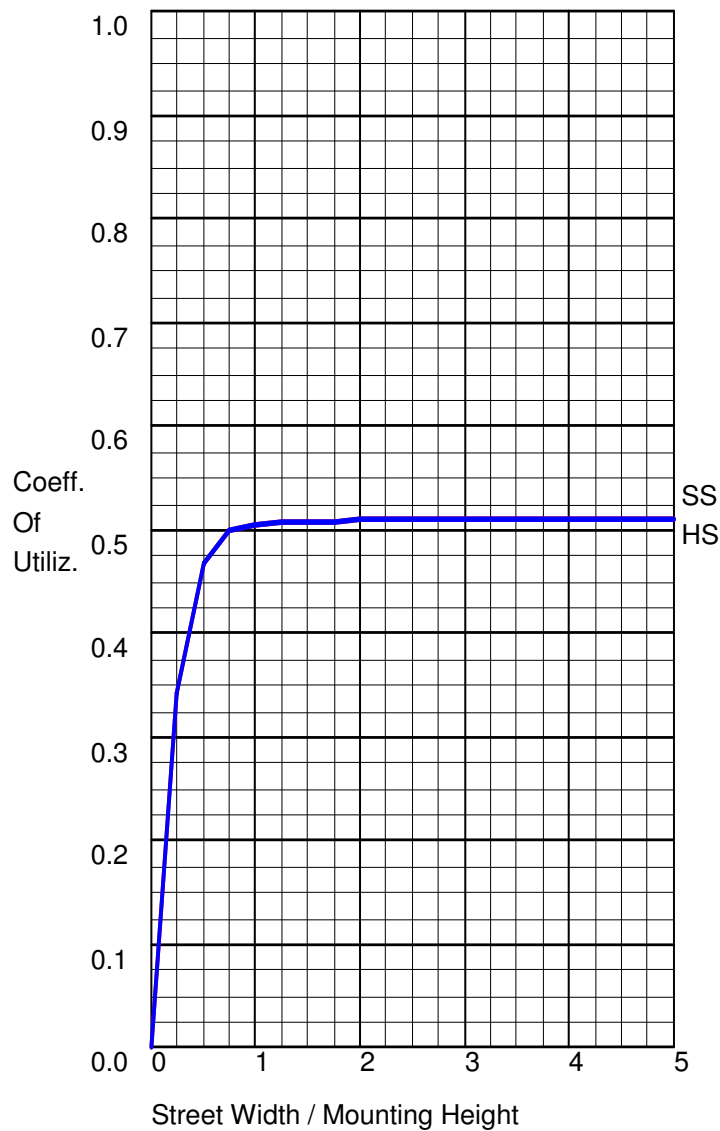
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-840-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L20-840-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

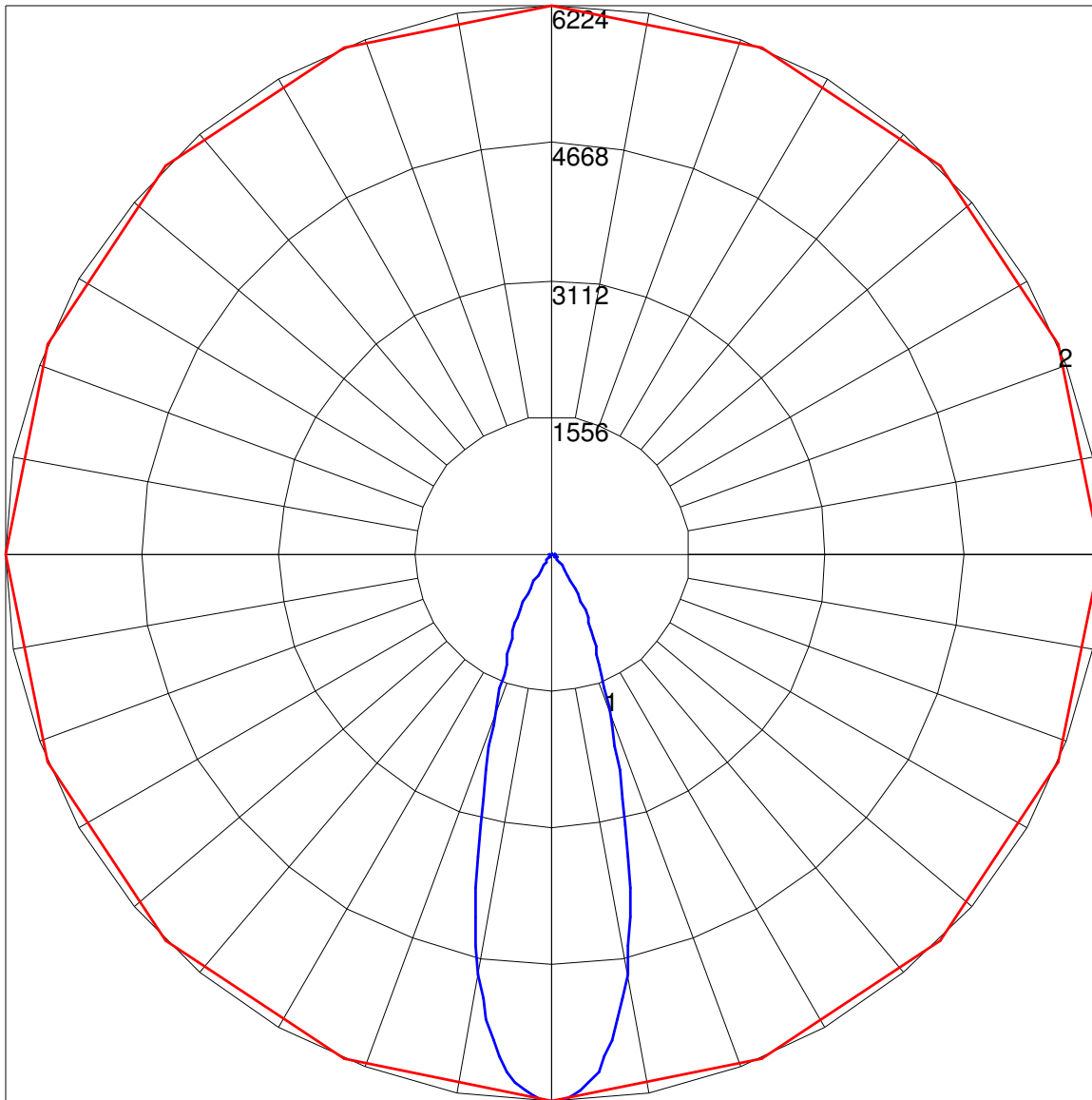
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1097.2	50.0
Downward House Side	1097.2	50.0
Downward Total	2194.4	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2194.6	100.0

POLAR GRAPH



Maximum Candela = 6224.352 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

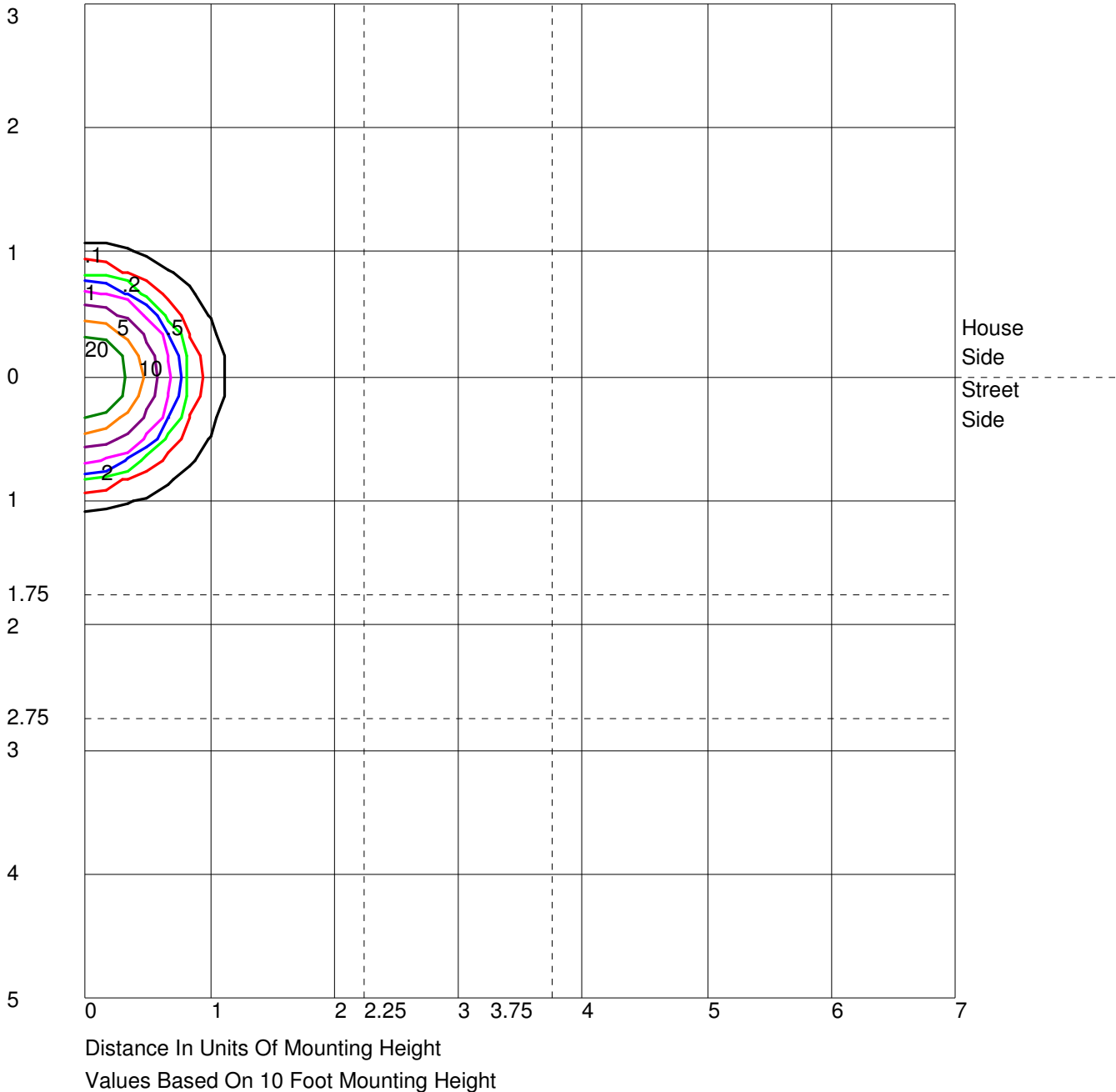


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