

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-830-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-L25-830-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	2698
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7651.648
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	7651.648
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.247 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.233 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-830-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1185.8	N.A.	44.0
FM - Front-Medium (30-60)	154.9	N.A.	5.7
FH - Front-High (60-80)	7.7	N.A.	0.3
FVH - Front-Very High (80-90)	0.4	N.A.	0.0
BL - Back-Low (0-30)	1185.8	N.A.	44.0
BM - Back-Medium (30-60)	154.9	N.A.	5.7
BH - Back-High (60-80)	7.7	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	2697.8	N.A.	100.0
BUG Rating	B3-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-830-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	7651.648	7651.648	7651.648	7651.648	7651.648
1	7642.567	7642.220	7640.739	7640.365	7643.151
2	7605.025	7602.796	7601.325	7589.082	7586.533
3	7534.930	7523.537	7525.455	7518.283	7521.929
4	7423.063	7416.795	7410.436	7402.689	7409.093
5	7267.624	7277.163	7258.269	7246.364	7262.088
6	7075.073	7081.715	7067.828	7062.510	7073.657
7	6859.233	6850.069	6840.613	6842.358	6851.047
8	6596.523	6583.175	6579.593	6577.729	6590.639
9	6290.561	6282.804	6273.156	6273.138	6297.139
10	5948.126	5939.355	5933.023	5932.539	5963.265
11	5564.312	5556.966	5561.050	5567.994	5595.595
12	5150.439	5146.172	5156.204	5168.264	5204.372
13	4717.096	4721.134	4737.361	4753.934	4787.246
14	4279.057	4286.750	4314.836	4335.612	4361.048
15	3849.734	3863.457	3899.912	3923.603	3947.860
16	3439.945	3461.188	3502.558	3534.791	3547.354
17	3070.622	3092.376	3141.073	3166.610	3174.184
18	2740.311	2749.283	2803.270	2829.346	2837.386
19	2427.451	2453.947	2509.615	2531.013	2538.742
20	2165.344	2192.735	2241.862	2273.063	2280.180
21	1943.830	1967.311	2015.798	2040.037	2037.607
22	1757.976	1781.658	1823.704	1843.557	1839.683
23	1606.073	1623.514	1661.668	1679.238	1672.605
24	1476.061	1490.697	1527.481	1540.098	1533.182
25	1362.686	1378.154	1411.466	1421.406	1412.425
26	1260.970	1276.356	1306.022	1314.400	1306.579
27	1166.581	1177.993	1206.106	1213.259	1206.508
28	1071.224	1079.757	1104.444	1110.565	1106.016
29	974.688	981.997	999.375	1007.031	1005.222
30	874.150	876.982	892.240	900.582	898.325
31	767.993	769.693	780.794	788.267	788.386
32	663.774	662.787	669.850	677.588	677.762
33	557.754	555.991	562.094	568.892	568.124
34	456.129	455.417	459.437	465.330	465.503
35	367.314	362.279	366.217	368.867	367.460
36	282.198	281.029	283.103	284.583	281.851
37	212.651	213.108	210.934	210.815	213.830
38	157.732	160.080	154.973	156.188	156.782
39	115.649	114.498	115.275	113.155	112.708
40	88.532	84.485	84.631	84.503	84.485
41	64.440	64.503	65.646	66.093	66.852
42	51.429	52.005	53.777	54.782	56.034
43	44.257	44.796	46.733	48.076	49.081
44	40.557	40.959	42.841	44.248	44.887
45	38.912	39.186	41.032	42.156	42.676
46	38.373	38.720	40.328	41.196	41.671
47	38.547	38.885	40.228	40.922	41.397
48	39.013	39.241	40.383	40.886	41.397
49	39.287	39.534	40.493	40.840	41.288
50	39.314	39.506	40.365	40.630	40.968
51	38.885	39.031	39.835	40.036	40.274
52	37.715	37.898	38.602	38.702	38.848

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-830-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	35.961	36.116	36.783	36.774	36.866
54	33.723	33.905	34.472	34.381	34.490
55	31.219	31.329	31.841	31.704	31.768
56	28.506	28.561	28.917	28.826	28.844
57	25.619	25.683	25.902	25.847	25.811
58	22.859	22.905	23.015	22.969	22.933
59	20.301	20.283	20.310	20.256	20.237
60	17.971	17.935	17.889	17.880	17.871
61	15.961	15.897	15.843	15.806	15.824
62	14.244	14.152	14.107	14.070	14.088
63	12.818	12.745	12.654	12.627	12.663
64	11.612	11.558	11.485	11.439	11.503
65	10.653	10.598	10.534	10.470	10.543
66	9.794	9.767	9.694	9.648	9.730
67	9.082	9.054	8.972	8.945	9.027
68	8.415	8.396	8.332	8.287	8.387
69	7.812	7.803	7.720	7.684	7.775
70	7.254	7.236	7.154	7.099	7.172
71	6.697	6.697	6.587	6.523	6.569
72	6.167	6.158	6.039	5.957	6.012
73	5.628	5.619	5.482	5.381	5.427
74	5.062	5.052	4.906	4.788	4.833
75	4.468	4.422	4.294	4.157	4.194
76	3.782	3.728	3.572	3.463	3.499
77	3.006	2.969	2.768	2.686	2.686
78	2.101	2.083	1.882	1.772	1.791
79	1.361	1.380	1.325	1.334	1.334
80	1.233	1.233	1.215	1.215	1.215
81	1.151	1.151	1.151	1.160	1.151
82	1.096	1.087	1.087	1.096	1.096
83	1.023	1.014	1.014	1.014	1.023
84	0.941	0.932	0.932	0.941	0.941
85	0.850	0.850	0.850	0.850	0.850
86	0.749	0.740	0.740	0.740	0.749
87	0.621	0.621	0.621	0.621	0.621
88	0.484	0.484	0.484	0.475	0.475
89	0.338	0.329	0.329	0.329	0.329
90	0.247	0.228	0.228	0.219	0.210
91	0.228	0.219	0.210	0.201	0.201
92	0.228	0.219	0.210	0.210	0.201
93	0.228	0.219	0.219	0.210	0.210
94	0.228	0.219	0.219	0.210	0.210
95	0.228	0.219	0.219	0.210	0.219
96	0.238	0.219	0.219	0.210	0.210
97	0.238	0.228	0.219	0.219	0.219
98	0.238	0.228	0.228	0.228	0.228
99	0.256	0.228	0.228	0.228	0.228
100	0.256	0.238	0.228	0.228	0.228
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

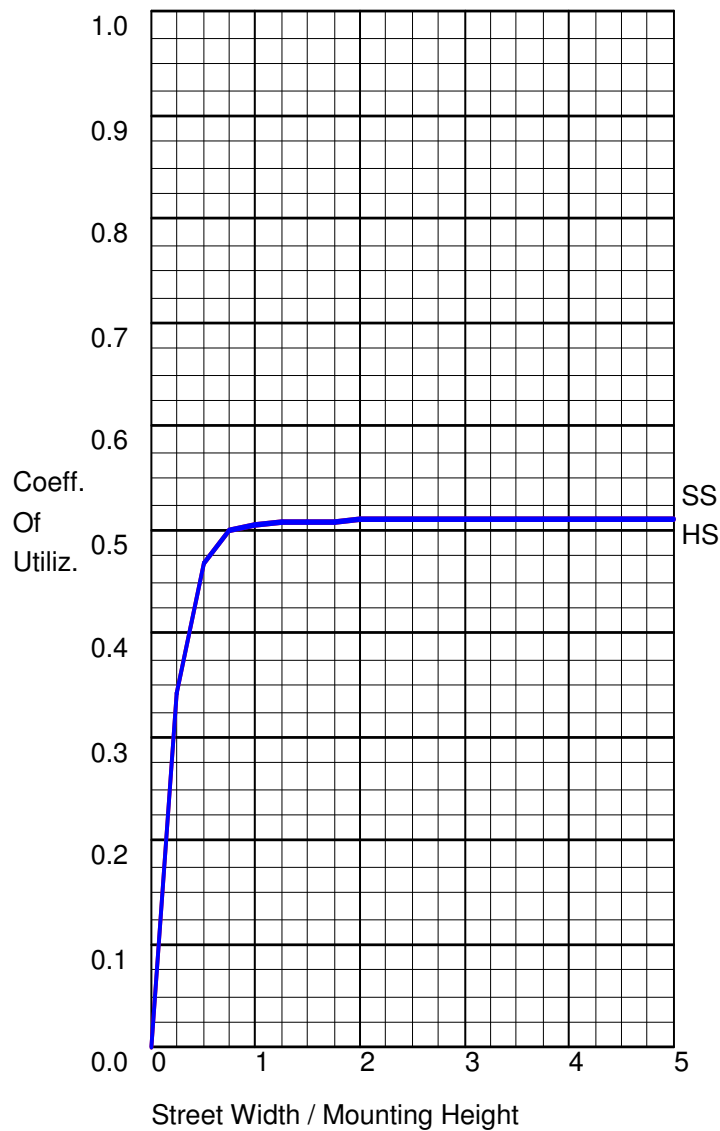
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-830-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L25-830-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

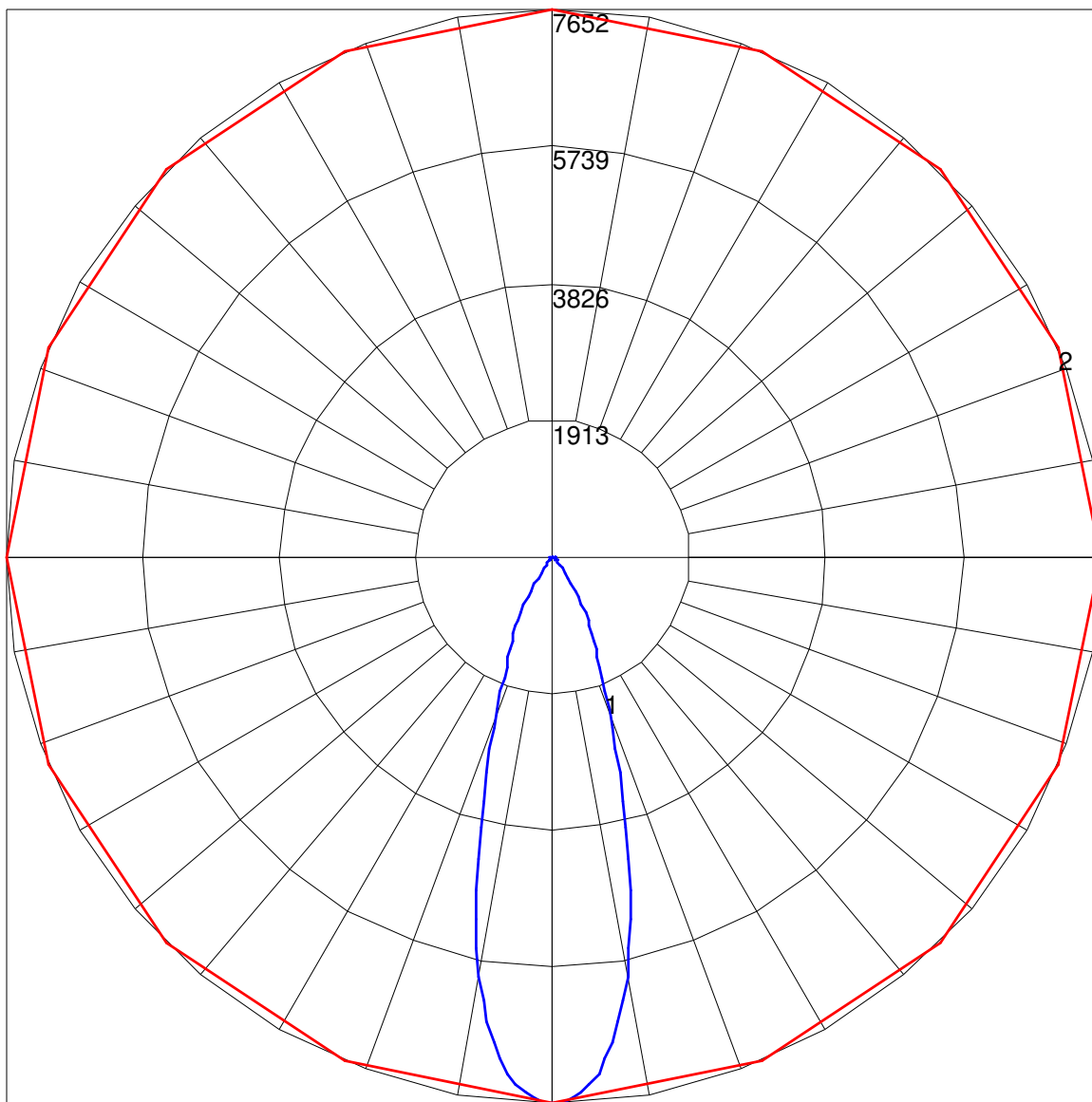
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1348.8	50.0
Downward House Side	1348.8	50.0
Downward Total	2697.6	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2697.8	100.0

POLAR GRAPH



Maximum Candela = 7651.648 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

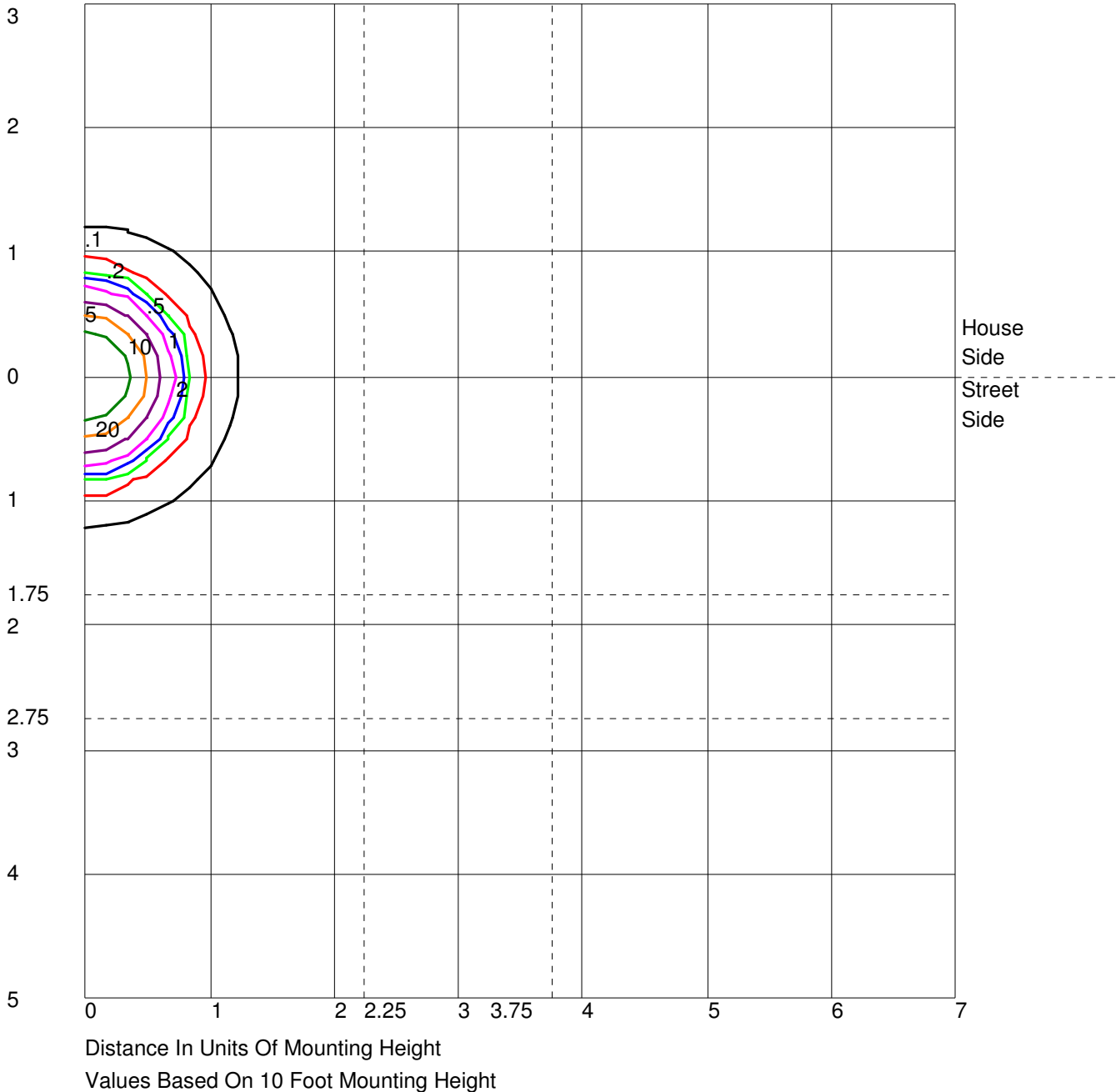


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