

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-840-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-L10-840-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	1117
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3168.032
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	3168.032
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.102 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.511 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-840-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	491.0	N.A.	44.0
FM - Front-Medium (30-60)	64.1	N.A.	5.7
FH - Front-High (60-80)	3.2	N.A.	0.3
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	491.0	N.A.	44.0
BM - Back-Medium (30-60)	64.1	N.A.	5.7
BH - Back-High (60-80)	3.2	N.A.	0.3
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	1117.1	N.A.	100.0
BUG Rating	B1-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-840-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	3168.032	3168.032	3168.032	3168.032	3168.032
1	3164.272	3164.128	3163.515	3163.360	3164.514
2	3148.728	3147.805	3147.196	3142.127	3141.072
3	3119.707	3114.989	3115.784	3112.814	3114.324
4	3073.390	3070.795	3068.162	3064.954	3067.606
5	3009.033	3012.983	3005.160	3000.231	3006.741
6	2929.311	2932.061	2926.311	2924.110	2928.725
7	2839.946	2836.152	2832.237	2832.959	2836.557
8	2731.176	2725.649	2724.166	2723.394	2728.739
9	2604.497	2601.286	2597.291	2597.283	2607.221
10	2462.718	2459.087	2456.465	2456.265	2468.986
11	2303.807	2300.765	2302.456	2305.331	2316.759
12	2132.450	2130.683	2134.837	2139.830	2154.779
13	1953.032	1954.704	1961.422	1968.284	1982.076
14	1771.669	1774.854	1786.483	1795.085	1805.616
15	1593.916	1599.597	1614.691	1624.499	1634.543
16	1424.249	1433.044	1450.173	1463.519	1468.720
17	1271.337	1280.344	1300.507	1311.080	1314.216
18	1134.578	1138.293	1160.645	1171.441	1174.770
19	1005.044	1016.014	1039.062	1047.922	1051.122
20	896.523	907.864	928.204	941.122	944.069
21	804.809	814.531	834.606	844.642	843.636
22	727.859	737.664	755.073	763.293	761.689
23	664.967	672.188	687.985	695.259	692.513
24	611.137	617.197	632.427	637.651	634.787
25	564.197	570.601	584.393	588.509	584.790
26	522.083	528.453	540.736	544.205	540.966
27	483.003	487.727	499.367	502.329	499.533
28	443.522	447.055	457.276	459.810	457.926
29	403.553	406.579	413.774	416.944	416.195
30	361.927	363.099	369.417	372.870	371.936
31	317.974	318.678	323.274	326.368	326.418
32	274.824	274.415	277.340	280.544	280.615
33	230.928	230.198	232.725	235.540	235.222
34	188.852	188.557	190.222	192.662	192.734
35	152.080	149.995	151.626	152.723	152.140
36	116.839	116.355	117.214	117.827	116.696
37	88.045	88.234	87.333	87.284	88.533
38	65.306	66.278	64.164	64.667	64.913
39	47.883	47.406	47.728	46.850	46.665
40	36.655	34.980	35.040	34.987	34.980
41	26.680	26.707	27.179	27.365	27.679
42	21.293	21.532	22.266	22.682	23.200
43	18.324	18.547	19.349	19.905	20.321
44	16.792	16.958	17.738	18.320	18.585
45	16.111	16.224	16.989	17.454	17.669
46	15.888	16.031	16.697	17.057	17.253
47	15.960	16.100	16.656	16.943	17.140
48	16.153	16.247	16.720	16.928	17.140
49	16.266	16.368	16.765	16.909	17.094
50	16.277	16.357	16.712	16.822	16.962
51	16.100	16.160	16.493	16.576	16.675
52	15.615	15.691	15.982	16.024	16.084

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53	14.889	14.953	15.230	15.226	15.264
54	13.962	14.038	14.272	14.235	14.280
55	12.926	12.971	13.183	13.126	13.153
56	11.802	11.825	11.973	11.935	11.942
57	10.607	10.633	10.724	10.702	10.686
58	9.465	9.483	9.529	9.510	9.495
59	8.405	8.398	8.409	8.386	8.379
60	7.441	7.426	7.407	7.403	7.399
61	6.609	6.582	6.559	6.544	6.552
62	5.897	5.860	5.841	5.826	5.833
63	5.307	5.277	5.239	5.228	5.243
64	4.808	4.785	4.755	4.736	4.763
65	4.411	4.388	4.362	4.335	4.365
66	4.055	4.044	4.014	3.995	4.029
67	3.760	3.749	3.715	3.703	3.737
68	3.484	3.476	3.450	3.431	3.473
69	3.234	3.231	3.196	3.181	3.219
70	3.004	2.996	2.962	2.939	2.969
71	2.773	2.773	2.727	2.701	2.720
72	2.553	2.550	2.500	2.466	2.489
73	2.330	2.326	2.270	2.228	2.247
74	2.096	2.092	2.031	1.982	2.001
75	1.850	1.831	1.778	1.721	1.736
76	1.566	1.543	1.479	1.434	1.449
77	1.245	1.229	1.146	1.112	1.112
78	0.870	0.862	0.779	0.734	0.741
79	0.564	0.571	0.549	0.552	0.552
80	0.511	0.511	0.503	0.503	0.503
81	0.477	0.477	0.477	0.480	0.477
82	0.454	0.450	0.450	0.454	0.454
83	0.424	0.420	0.420	0.420	0.424
84	0.390	0.386	0.386	0.390	0.390
85	0.352	0.352	0.352	0.352	0.352
86	0.310	0.306	0.306	0.306	0.310
87	0.257	0.257	0.257	0.257	0.257
88	0.200	0.200	0.200	0.197	0.197
89	0.140	0.136	0.136	0.136	0.136
90	0.102	0.095	0.095	0.091	0.087
91	0.095	0.091	0.087	0.083	0.083
92	0.095	0.091	0.087	0.087	0.083
93	0.095	0.091	0.091	0.087	0.087
94	0.095	0.091	0.091	0.087	0.087
95	0.095	0.091	0.091	0.087	0.091
96	0.098	0.091	0.091	0.087	0.087
97	0.098	0.095	0.091	0.091	0.091
98	0.098	0.095	0.095	0.095	0.095
99	0.106	0.095	0.095	0.095	0.095
100	0.106	0.098	0.095	0.095	0.095
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

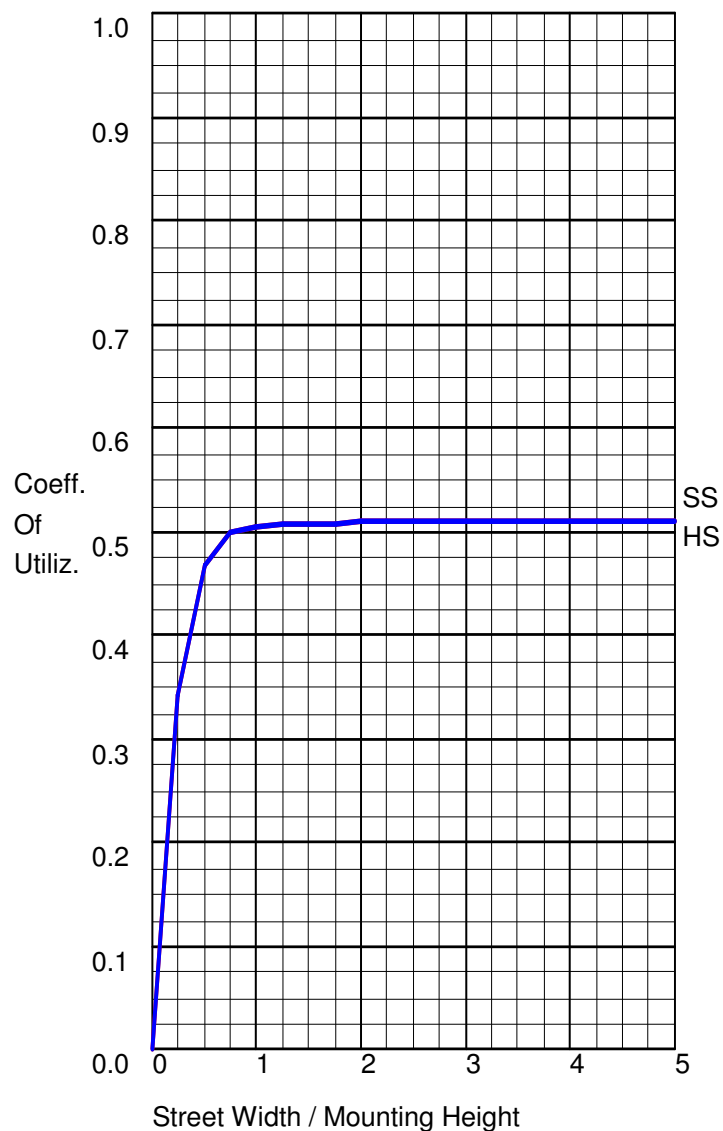
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-840-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L10-840-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

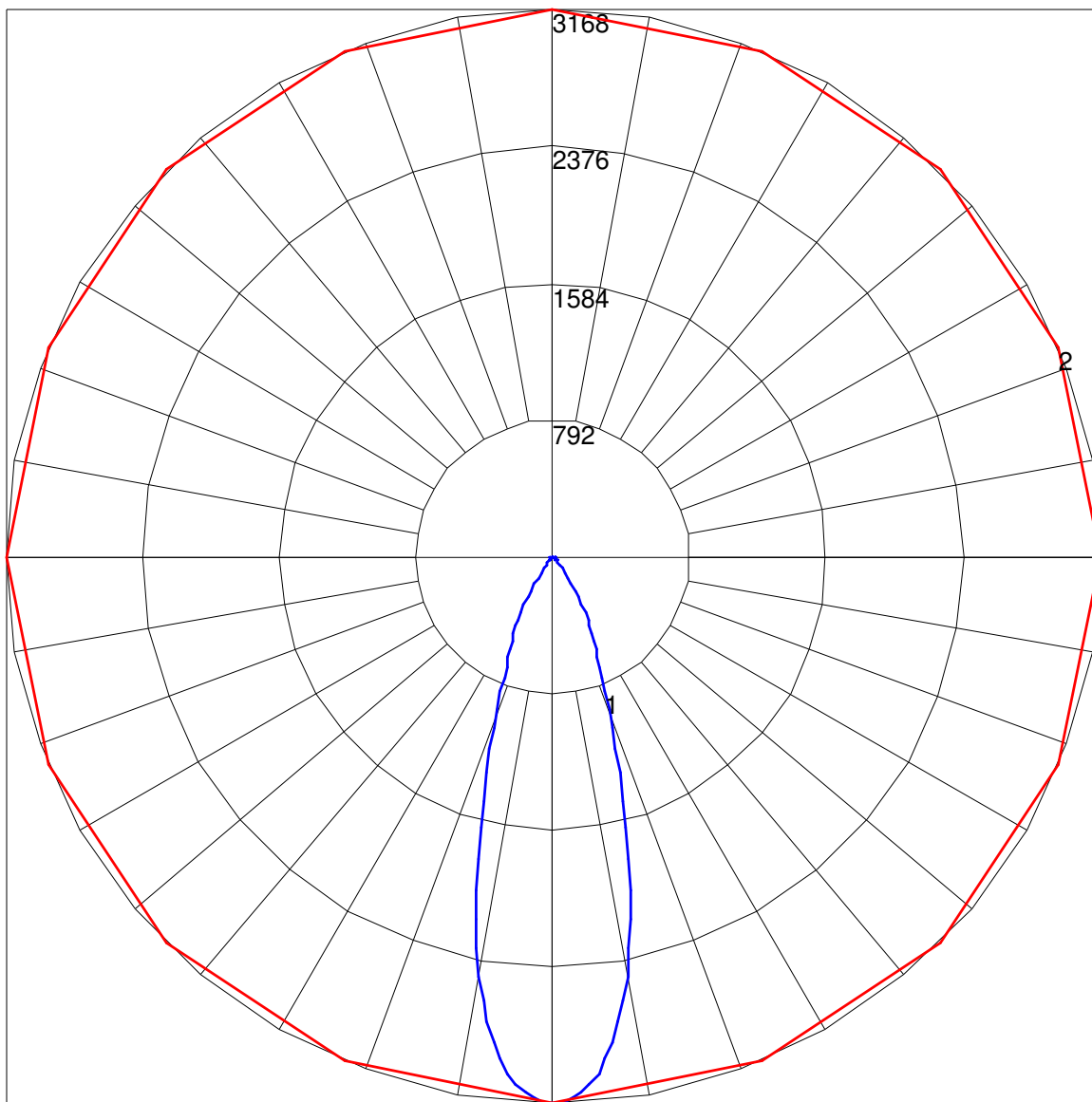
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	558.5	50.0
Downward House Side	558.5	50.0
Downward Total	1117.0	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1117.2	100.0

POLAR GRAPH



Maximum Candela = 3168.032 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

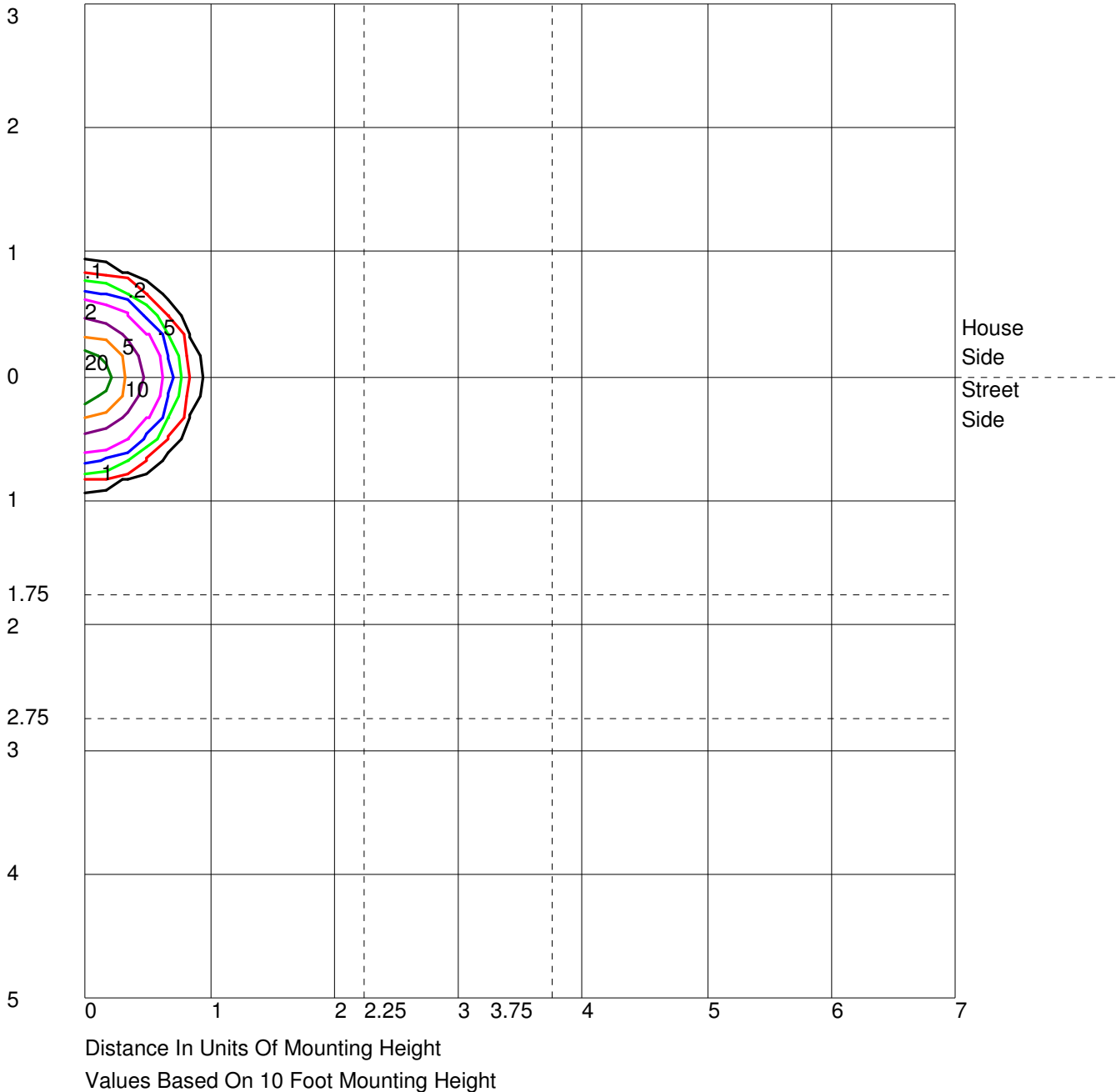


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