

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-930-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-L15-930-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	1565
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4437.843
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	4437.843
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.143 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.715 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-930-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	687.8	N.A.	43.9
FM - Front-Medium (30-60)	89.8	N.A.	5.7
FH - Front-High (60-80)	4.5	N.A.	0.3
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	687.8	N.A.	43.9
BM - Back-Medium (30-60)	89.8	N.A.	5.7
BH - Back-High (60-80)	4.5	N.A.	0.3
BVH - Back-Very High (80-90)	0.3	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	1564.9	N.A.	100.0
BUG Rating	B2-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-930-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	4437.843	4437.843	4437.843	4437.843	4437.843
1	4432.576	4432.374	4431.516	4431.299	4432.915
2	4410.802	4409.509	4408.656	4401.555	4400.077
3	4370.148	4363.540	4364.653	4360.493	4362.607
4	4305.267	4301.632	4297.943	4293.450	4297.164
5	4215.114	4220.647	4209.688	4202.784	4211.903
6	4103.438	4107.290	4099.236	4096.152	4102.616
7	3978.254	3972.939	3967.454	3968.466	3973.506
8	3825.886	3818.144	3816.067	3814.986	3822.473
9	3648.432	3643.933	3638.338	3638.327	3652.247
10	3449.825	3444.738	3441.066	3440.785	3458.605
11	3227.219	3222.958	3225.327	3229.354	3245.362
12	2987.178	2984.704	2990.522	2997.517	3018.458
13	2735.846	2738.188	2747.599	2757.212	2776.532
14	2481.790	2486.252	2502.541	2514.591	2529.343
15	2232.789	2240.748	2261.891	2275.631	2289.700
16	1995.117	2007.438	2031.432	2050.126	2057.413
17	1780.915	1793.532	1821.776	1836.587	1840.980
18	1589.340	1594.543	1625.855	1640.979	1645.642
19	1407.886	1423.253	1455.540	1467.950	1472.433
20	1255.867	1271.754	1300.247	1318.343	1322.471
21	1127.393	1141.011	1169.133	1183.191	1181.782
22	1019.600	1033.335	1057.721	1069.236	1066.989
23	931.498	941.614	963.743	973.933	970.086
24	856.093	864.582	885.916	893.234	889.223
25	790.338	799.309	818.629	824.395	819.186
26	731.344	740.268	757.473	762.333	757.797
27	676.600	683.218	699.523	703.673	699.757
28	621.294	626.243	640.561	644.112	641.473
29	565.305	569.544	579.622	584.063	583.014
30	506.994	508.637	517.486	522.324	521.015
31	445.425	446.410	452.849	457.183	457.252
32	384.979	384.407	388.503	392.991	393.092
33	323.489	322.466	326.006	329.949	329.504
34	264.548	264.135	266.466	269.884	269.985
35	213.036	210.117	212.401	213.937	213.121
36	163.671	162.992	164.195	165.054	163.469
37	123.335	123.600	122.338	122.270	124.018
38	91.482	92.844	89.882	90.587	90.931
39	67.075	66.407	66.858	65.628	65.369
40	51.347	49.000	49.085	49.011	49.000
41	37.374	37.411	38.073	38.333	38.773
42	29.828	30.162	31.190	31.773	32.499
43	25.668	25.981	27.104	27.883	28.466
44	23.522	23.755	24.847	25.663	26.034
45	22.569	22.727	23.798	24.450	24.752
46	22.256	22.457	23.390	23.893	24.169
47	22.357	22.553	23.332	23.734	24.010
48	22.627	22.759	23.422	23.713	24.010
49	22.786	22.929	23.485	23.687	23.946
50	22.802	22.913	23.411	23.565	23.761
51	22.553	22.637	23.104	23.220	23.358
52	21.874	21.980	22.388	22.447	22.531

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53	20.857	20.947	21.334	21.329	21.382
54	19.559	19.665	19.993	19.940	20.004
55	18.107	18.170	18.467	18.388	18.425
56	16.533	16.565	16.771	16.718	16.729
57	14.858	14.896	15.023	14.991	14.970
58	13.258	13.285	13.348	13.322	13.301
59	11.774	11.764	11.780	11.748	11.737
60	10.423	10.402	10.375	10.370	10.365
61	9.257	9.220	9.188	9.167	9.178
62	8.261	8.208	8.182	8.160	8.171
63	7.435	7.392	7.339	7.323	7.344
64	6.735	6.703	6.661	6.634	6.671
65	6.179	6.147	6.110	6.073	6.115
66	5.681	5.665	5.622	5.596	5.643
67	5.267	5.251	5.204	5.188	5.235
68	4.880	4.870	4.833	4.806	4.864
69	4.531	4.525	4.478	4.456	4.509
70	4.207	4.197	4.149	4.117	4.160
71	3.884	3.884	3.821	3.783	3.810
72	3.577	3.572	3.503	3.455	3.487
73	3.264	3.259	3.179	3.121	3.148
74	2.936	2.930	2.846	2.777	2.803
75	2.591	2.565	2.491	2.411	2.432
76	2.194	2.162	2.072	2.008	2.030
77	1.743	1.722	1.606	1.558	1.558
78	1.219	1.208	1.092	1.028	1.039
79	0.790	0.800	0.768	0.774	0.774
80	0.715	0.715	0.705	0.705	0.705
81	0.668	0.668	0.668	0.673	0.668
82	0.636	0.631	0.631	0.636	0.636
83	0.593	0.588	0.588	0.588	0.593
84	0.546	0.540	0.540	0.546	0.546
85	0.493	0.493	0.493	0.493	0.493
86	0.435	0.429	0.429	0.429	0.435
87	0.360	0.360	0.360	0.360	0.360
88	0.281	0.281	0.281	0.276	0.276
89	0.196	0.191	0.191	0.191	0.191
90	0.143	0.132	0.132	0.127	0.122
91	0.132	0.127	0.122	0.117	0.117
92	0.132	0.127	0.122	0.122	0.117
93	0.132	0.127	0.127	0.122	0.122
94	0.132	0.127	0.127	0.122	0.122
95	0.132	0.127	0.127	0.122	0.127
96	0.138	0.127	0.127	0.122	0.122
97	0.138	0.132	0.127	0.127	0.127
98	0.138	0.132	0.132	0.132	0.132
99	0.148	0.132	0.132	0.132	0.132
100	0.148	0.138	0.132	0.132	0.132
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

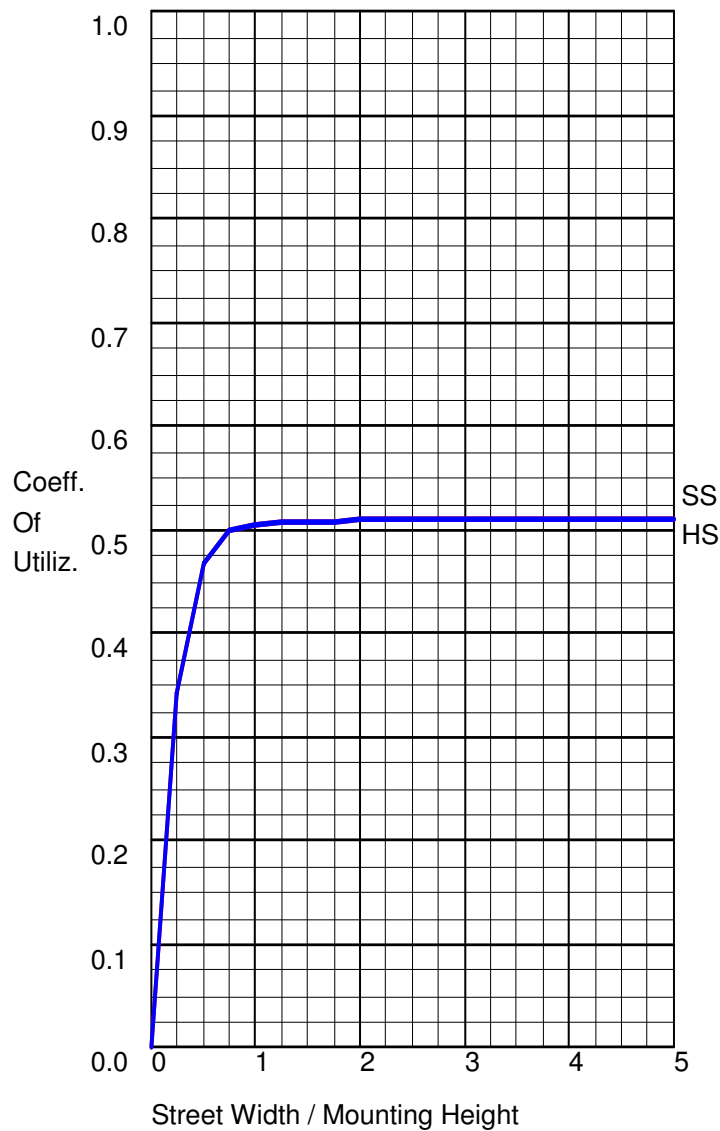
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-930-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L15-930-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

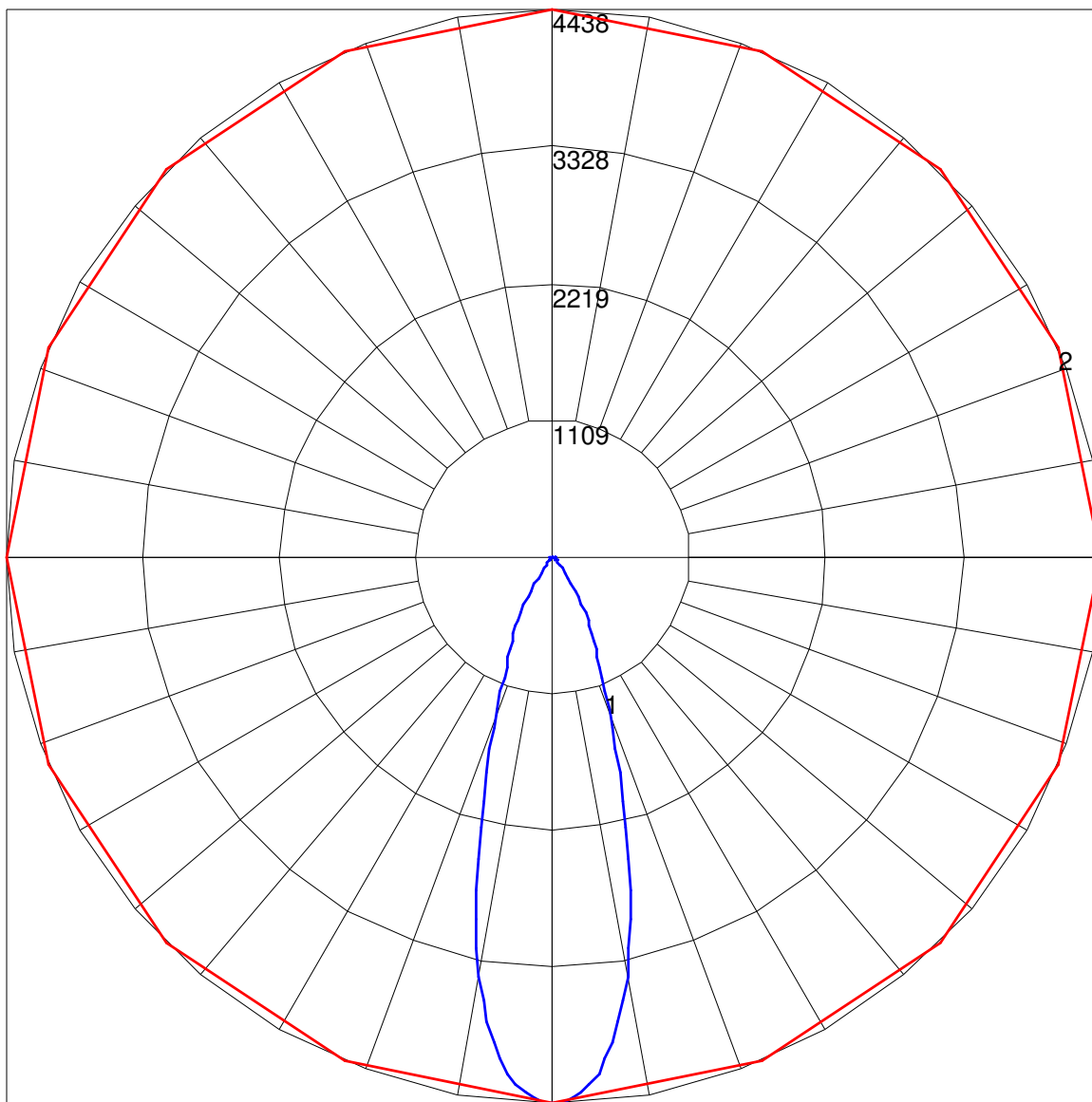
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	782.3	50.0
Downward House Side	782.3	50.0
Downward Total	1564.6	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1564.8	100.0

POLAR GRAPH



Maximum Candela = 4437.843 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

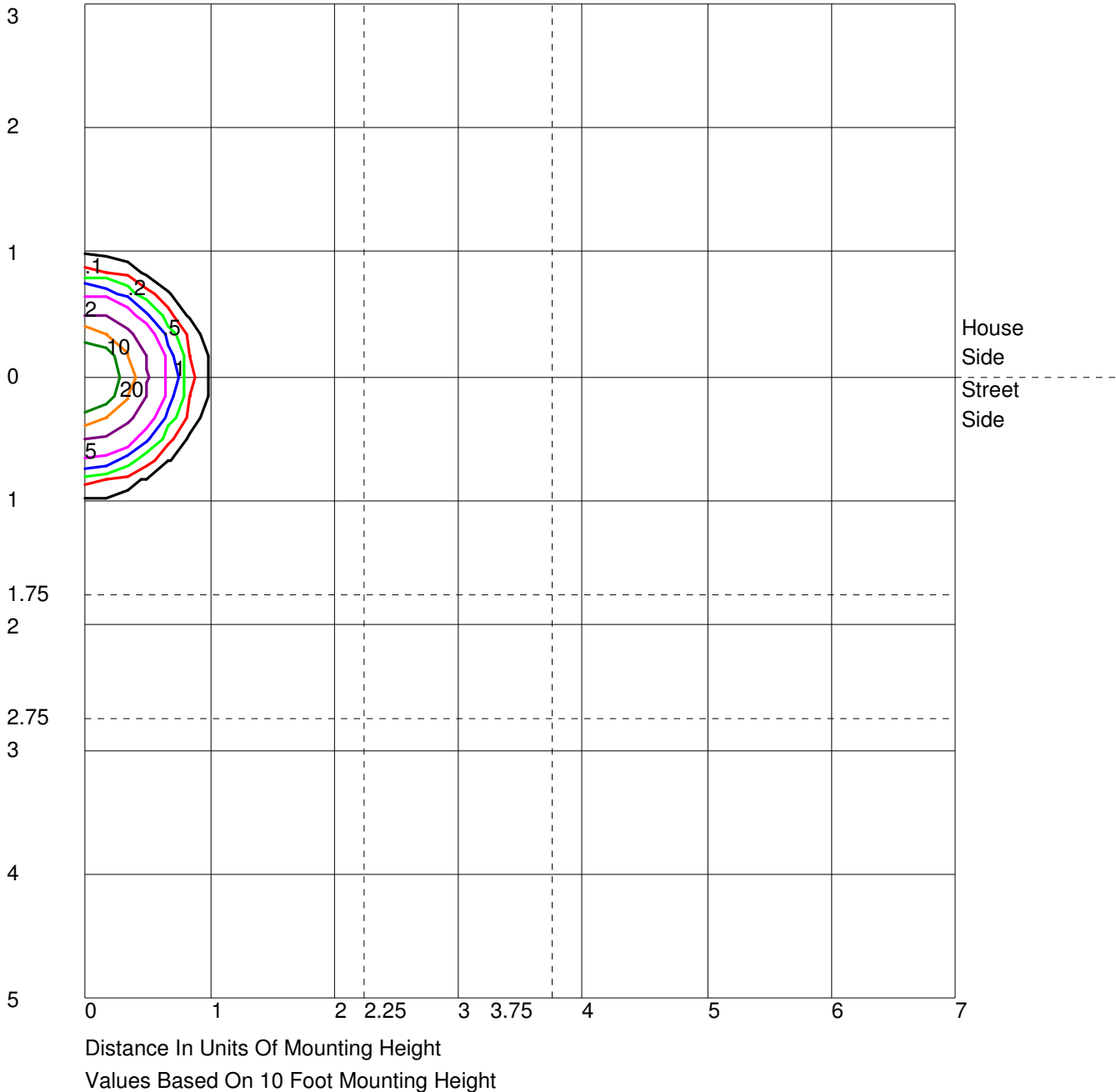


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