

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-827-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-L10-827-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	1138
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5100.064
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	5100.064
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.052 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.232 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-827-XXX-DIM-UNV-S-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	516.5	N.A.	45.4
FM - Front-Medium (30-60)	50.7	N.A.	4.5
FH - Front-High (60-80)	1.5	N.A.	0.1
FVH - Front-Very High (80-90)	0.1	N.A.	0.0
BL - Back-Low (0-30)	516.5	N.A.	45.4
BM - Back-Medium (30-60)	50.7	N.A.	4.5
BH - Back-High (60-80)	1.5	N.A.	0.1
BVH - Back-Very High (80-90)	0.1	N.A.	0.0
UL - Uplight-Low (90-100)	< 0.05	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	1137.6	N.A.	100.0
BUG Rating	B2-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	5100.064	5100.064	5100.064	5100.064	5100.064
1	5090.736	5088.559	5088.996	5087.085	5089.041
2	5026.766	5025.887	5022.506	5020.913	5026.374
3	4915.775	4911.881	4908.885	4905.811	4918.056
4	4749.749	4748.474	4743.361	4741.839	4756.908
5	4527.673	4523.667	4522.227	4520.312	4539.320
6	4248.898	4247.421	4248.760	4251.643	4267.401
7	3921.253	3922.776	3932.171	3940.676	3947.009
8	3556.662	3563.286	3581.449	3596.840	3592.501
9	3179.901	3189.809	3218.193	3238.555	3222.057
10	2813.036	2825.053	2860.395	2885.309	2857.332
11	2463.840	2477.911	2518.952	2544.218	2509.505
12	2141.454	2160.361	2200.370	2230.236	2190.720
13	1861.060	1876.989	1919.112	1950.837	1911.340
14	1618.315	1631.585	1671.134	1701.774	1665.236
15	1409.202	1422.173	1461.438	1489.478	1453.075
16	1234.342	1248.125	1276.681	1301.685	1270.020
17	1094.984	1096.099	1124.409	1144.681	1120.295
18	965.299	973.991	995.857	1012.254	993.680
19	862.686	867.514	891.145	905.691	892.065
20	776.944	783.396	799.592	811.803	798.238
21	707.406	711.292	725.071	735.144	722.217
22	648.370	652.080	662.845	669.573	658.618
23	599.018	600.959	609.247	614.861	604.998
24	556.027	557.063	563.635	566.747	558.242
25	516.987	518.270	522.436	523.371	516.216
26	481.784	481.690	483.355	482.722	476.484
27	445.447	443.615	444.265	443.087	437.391
28	406.646	404.507	403.852	403.164	399.023
29	365.803	363.802	363.069	364.262	361.086
30	322.367	321.657	321.077	323.542	321.743
31	278.498	278.670	278.827	282.811	281.737
32	236.129	236.937	237.314	242.539	243.011
33	194.762	196.318	197.686	202.971	205.335
34	156.417	159.084	160.860	166.497	170.185
35	123.671	125.941	126.689	132.015	137.248
36	92.964	96.214	98.544	102.064	107.842
37	68.985	73.144	74.113	77.225	83.568
38	50.762	53.654	54.450	58.123	62.952
39	38.521	38.977	40.342	42.751	45.623
40	27.842	29.054	30.936	32.682	34.257
41	21.009	22.015	23.294	24.745	26.354
42	16.352	17.194	18.477	19.599	20.874
43	13.237	13.831	15.025	16.012	16.940
44	11.075	11.505	12.537	13.416	13.816
45	9.504	9.829	10.727	11.404	11.584
46	8.363	8.603	9.384	9.874	9.986
47	7.484	7.682	8.348	8.689	8.748
48	6.789	6.979	7.525	7.768	7.802
49	6.242	6.400	6.890	7.043	7.047
50	5.797	5.936	6.358	6.459	6.441
51	5.405	5.536	5.913	5.984	5.947
52	5.046	5.158	5.491	5.513	5.435

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-827-XXX-DIM-UNV-S-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	4.716	4.817	5.105	5.083	4.978
54	4.428	4.526	4.765	4.701	4.582
55	4.178	4.260	4.462	4.372	4.226
56	3.953	4.013	4.193	4.088	3.912
57	3.740	3.789	3.931	3.830	3.647
58	3.538	3.579	3.699	3.598	3.426
59	3.351	3.381	3.471	3.381	3.220
60	3.164	3.190	3.261	3.172	3.015
61	2.977	3.000	3.063	2.977	2.828
62	2.790	2.809	2.865	2.779	2.633
63	2.603	2.626	2.671	2.585	2.446
64	2.420	2.439	2.484	2.394	2.259
65	2.240	2.263	2.297	2.210	2.083
66	2.065	2.083	2.117	2.035	1.904
67	1.896	1.919	1.949	1.874	1.743
68	1.743	1.758	1.792	1.709	1.586
69	1.593	1.612	1.642	1.563	1.436
70	1.451	1.470	1.504	1.418	1.290
71	1.317	1.332	1.365	1.279	1.152
72	1.186	1.201	1.227	1.145	1.021
73	1.055	1.070	1.092	1.006	0.898
74	0.920	0.935	0.950	0.875	0.763
75	0.782	0.793	0.797	0.737	0.625
76	0.647	0.655	0.636	0.598	0.497
77	0.527	0.531	0.497	0.464	0.382
78	0.408	0.396	0.344	0.318	0.281
79	0.254	0.262	0.251	0.247	0.236
80	0.232	0.232	0.232	0.228	0.221
81	0.217	0.217	0.221	0.217	0.206
82	0.206	0.206	0.209	0.206	0.194
83	0.191	0.191	0.194	0.194	0.183
84	0.176	0.176	0.176	0.172	0.168
85	0.153	0.157	0.161	0.157	0.150
86	0.135	0.135	0.135	0.135	0.131
87	0.112	0.112	0.112	0.112	0.108
88	0.086	0.086	0.090	0.086	0.082
89	0.064	0.060	0.064	0.060	0.060
90	0.052	0.045	0.049	0.045	0.045
91	0.049	0.045	0.045	0.045	0.041
92	0.045	0.045	0.045	0.045	0.041
93	0.049	0.045	0.045	0.045	0.041
94	0.049	0.045	0.045	0.045	0.041
95	0.049	0.045	0.045	0.045	0.041
96	0.049	0.049	0.045	0.045	0.041
97	0.049	0.049	0.045	0.045	0.045
98	0.049	0.049	0.045	0.045	0.041
99	0.049	0.049	0.045	0.049	0.041
100	0.049	0.049	0.045	0.049	0.045
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

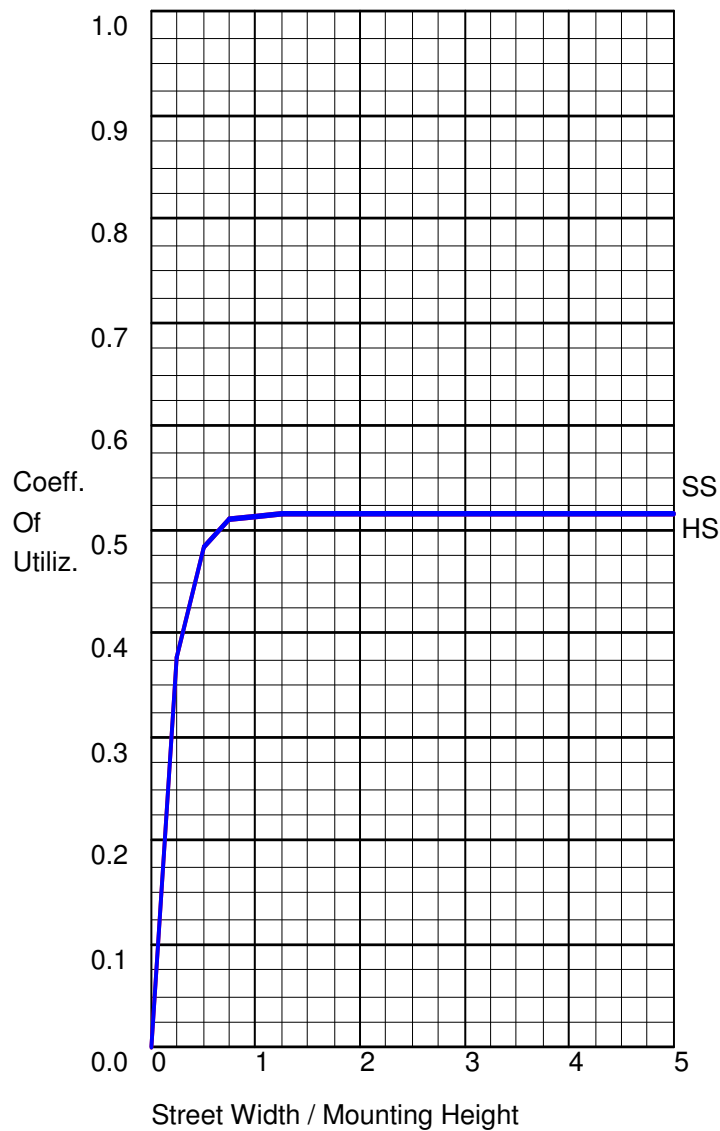
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-827-XXX-DIM-UNV-S-XXX_IES****CANDELA TABULATION - (Cont.)**

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-L10-827-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

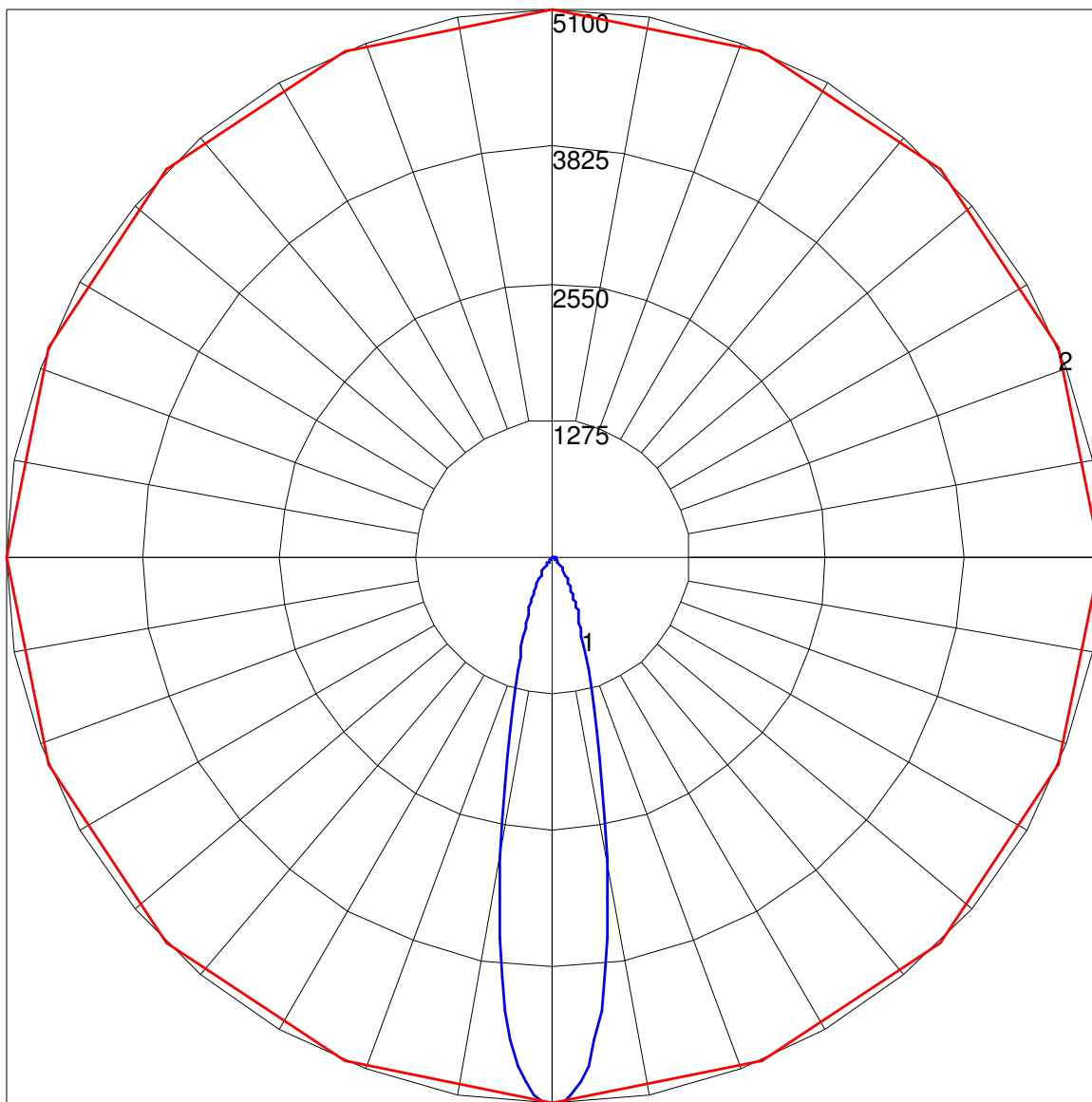
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	568.8	50.0
Downward House Side	568.8	50.0
Downward Total	1137.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	1137.6	100.0

POLAR GRAPH



Maximum Candela = 5100.064 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

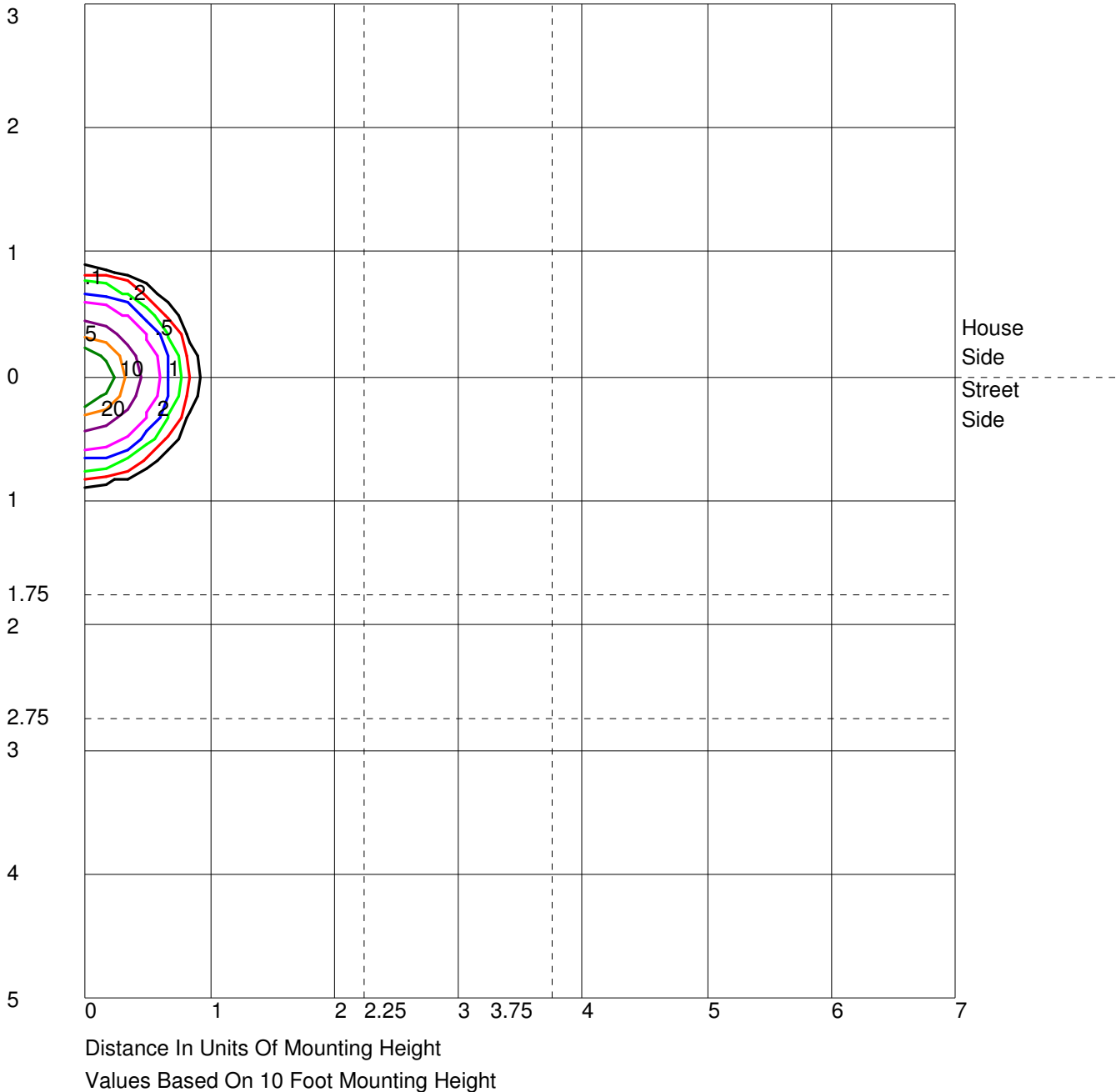


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