

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-940-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-L10-940-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	1126
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5048.022
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	5048.022
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	.23 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-940-XXX-DIM-UNV-S-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	511.2	N.A.	45.4
FM - Front-Medium (30-60)	50.2	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)	511.2	N.A.	45.4
BM - Back-Medium (30-60)	50.2	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	1126.0	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	5048.022	5048.022	5048.022	5048.022	5048.022
1	5038.789	5036.634	5037.067	5035.176	5037.112
2	4975.472	4974.602	4971.256	4969.679	4975.084
3	4865.613	4861.760	4858.794	4855.751	4867.872
4	4701.282	4700.020	4694.959	4693.452	4708.368
5	4481.472	4477.507	4476.082	4474.186	4493.000
6	4205.542	4204.079	4205.405	4208.259	4223.856
7	3881.240	3882.747	3892.046	3900.465	3906.733
8	3520.370	3526.926	3544.903	3560.137	3555.843
9	3147.453	3157.259	3185.354	3205.509	3189.179
10	2784.331	2796.226	2831.207	2855.866	2828.175
11	2438.699	2452.626	2493.249	2518.256	2483.897
12	2119.602	2138.316	2177.917	2207.478	2168.366
13	1842.069	1857.836	1899.529	1930.930	1891.836
14	1601.801	1614.936	1654.082	1684.409	1648.243
15	1394.822	1407.661	1446.525	1474.279	1438.247
16	1221.746	1235.389	1263.654	1288.402	1257.060
17	1083.811	1084.914	1112.935	1133.000	1108.863
18	955.449	964.053	985.695	1001.925	983.540
19	853.883	858.662	882.052	896.449	882.962
20	769.016	775.402	791.432	803.520	790.092
21	700.187	704.034	717.672	727.642	714.848
22	641.754	645.426	656.081	662.741	651.898
23	592.905	594.827	603.030	608.587	598.825
24	550.354	551.379	557.884	560.964	552.545
25	511.711	512.981	517.105	518.031	510.949
26	476.867	476.775	478.422	477.797	471.622
27	440.902	439.088	439.732	438.566	432.928
28	402.497	400.379	399.731	399.050	394.952
29	362.070	360.089	359.364	360.545	357.402
30	319.078	318.374	317.801	320.240	318.460
31	275.656	275.827	275.982	279.925	278.862
32	233.719	234.519	234.893	240.064	240.531
33	192.774	194.314	195.669	200.900	203.240
34	154.821	157.460	159.219	164.798	168.448
35	122.409	124.656	125.397	130.668	135.847
36	92.015	95.232	97.538	101.022	106.742
37	68.281	72.398	73.357	76.437	82.715
38	50.245	53.106	53.895	57.530	62.310
39	38.128	38.579	39.931	42.315	45.158
40	27.558	28.758	30.620	32.349	33.907
41	20.795	21.790	23.056	24.493	26.085
42	16.185	17.018	18.288	19.399	20.661
43	13.102	13.690	14.871	15.849	16.767
44	10.962	11.388	12.409	13.279	13.675
45	9.407	9.729	10.618	11.288	11.465
46	8.278	8.515	9.288	9.773	9.885
47	7.408	7.604	8.263	8.600	8.659
48	6.719	6.908	7.449	7.689	7.723
49	6.179	6.334	6.819	6.971	6.975
50	5.738	5.875	6.294	6.393	6.375
51	5.349	5.479	5.853	5.923	5.886
52	4.994	5.105	5.435	5.457	5.379

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-940-XXX-DIM-UNV-S-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	4.668	4.768	5.053	5.031	4.927
54	4.383	4.480	4.716	4.654	4.535
55	4.135	4.217	4.417	4.328	4.183
56	3.913	3.972	4.150	4.046	3.872
57	3.702	3.750	3.891	3.791	3.610
58	3.502	3.543	3.661	3.561	3.391
59	3.317	3.347	3.436	3.347	3.187
60	3.132	3.158	3.228	3.139	2.984
61	2.947	2.969	3.032	2.947	2.799
62	2.762	2.780	2.836	2.751	2.606
63	2.577	2.599	2.643	2.558	2.421
64	2.395	2.414	2.458	2.369	2.236
65	2.218	2.240	2.273	2.188	2.062
66	2.044	2.062	2.095	2.014	1.884
67	1.877	1.899	1.929	1.855	1.725
68	1.725	1.740	1.773	1.692	1.570
69	1.577	1.596	1.625	1.547	1.422
70	1.436	1.455	1.488	1.403	1.277
71	1.303	1.318	1.351	1.266	1.140
72	1.174	1.188	1.214	1.133	1.011
73	1.044	1.059	1.081	0.996	0.888
74	0.911	0.926	0.940	0.866	0.755
75	0.774	0.785	0.789	0.729	0.618
76	0.640	0.648	0.629	0.592	0.492
77	0.522	0.526	0.492	0.459	0.378
78	0.404	0.392	0.341	0.315	0.278
79	0.252	0.259	0.248	0.244	0.233
80	0.230	0.230	0.230	0.226	0.218
81	0.215	0.215	0.218	0.215	0.204
82	0.204	0.204	0.207	0.204	0.193
83	0.189	0.189	0.193	0.193	0.181
84	0.174	0.174	0.174	0.170	0.167
85	0.152	0.155	0.159	0.155	0.148
86	0.133	0.133	0.133	0.133	0.130
87	0.111	0.111	0.111	0.111	0.107
88	0.085	0.085	0.089	0.085	0.081
89	0.063	0.059	0.063	0.059	0.059
90	0.052	0.044	0.048	0.044	0.044
91	0.048	0.044	0.044	0.044	0.041
92	0.044	0.044	0.044	0.044	0.041
93	0.048	0.044	0.044	0.044	0.041
94	0.048	0.044	0.044	0.044	0.041
95	0.048	0.044	0.044	0.044	0.041
96	0.048	0.048	0.044	0.044	0.041
97	0.048	0.048	0.044	0.044	0.044
98	0.048	0.048	0.044	0.044	0.041
99	0.048	0.048	0.044	0.048	0.041
100	0.048	0.048	0.044	0.048	0.044
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

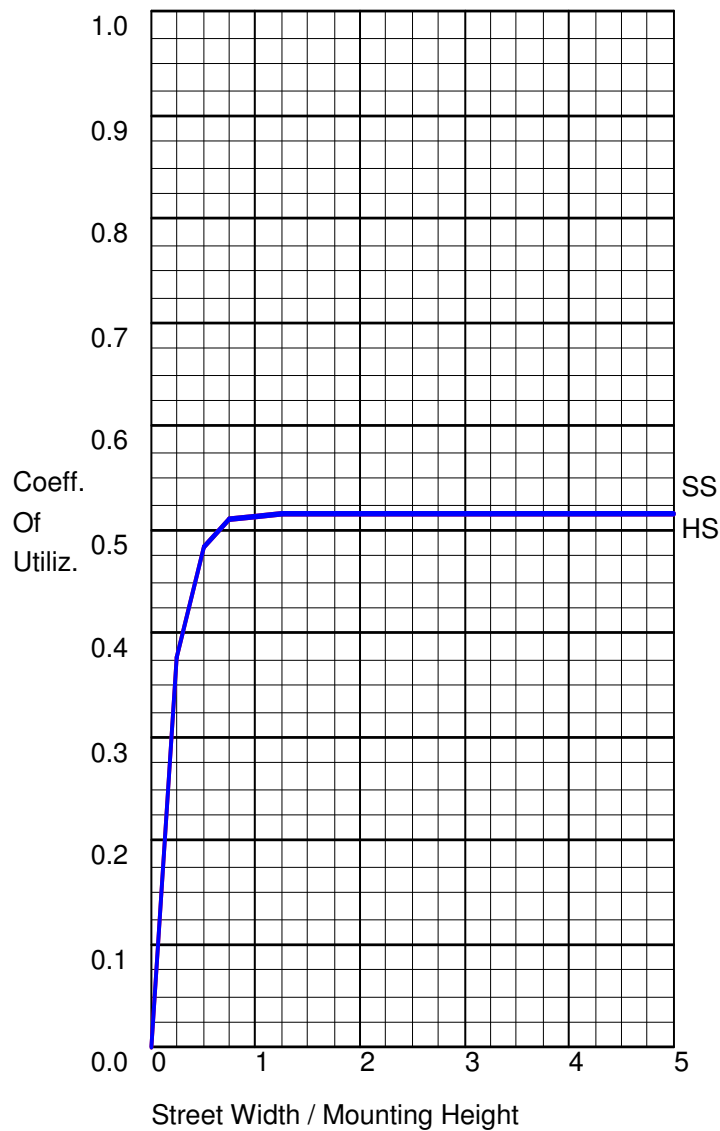
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-940-XXX-DIM-UNV-S-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L10-940-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

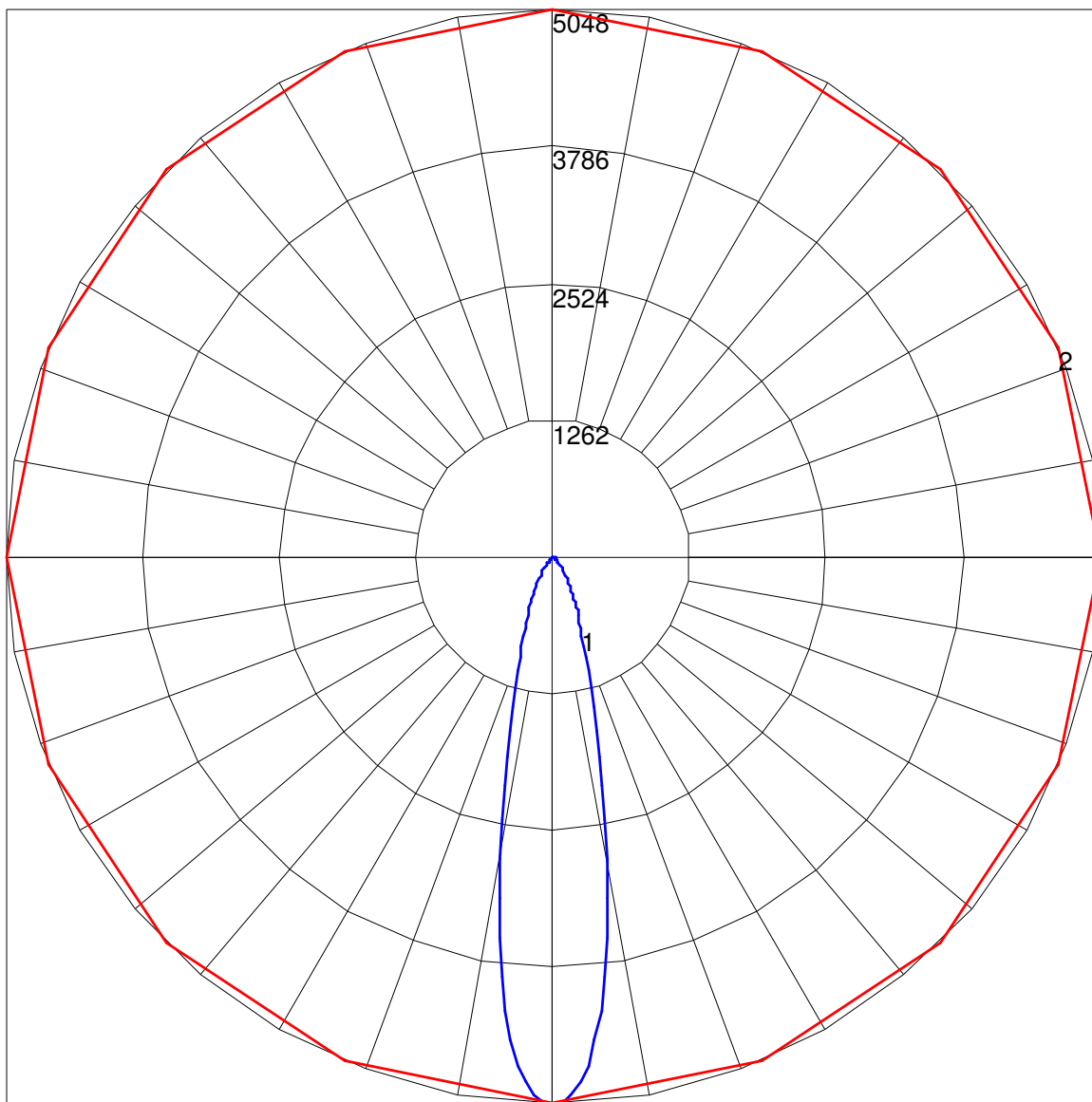
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	563.0	50.0
Downward House Side	563.0	50.0
Downward Total	1126.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	1126.0	100.0

POLAR GRAPH



Maximum Candela = 5048.022 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

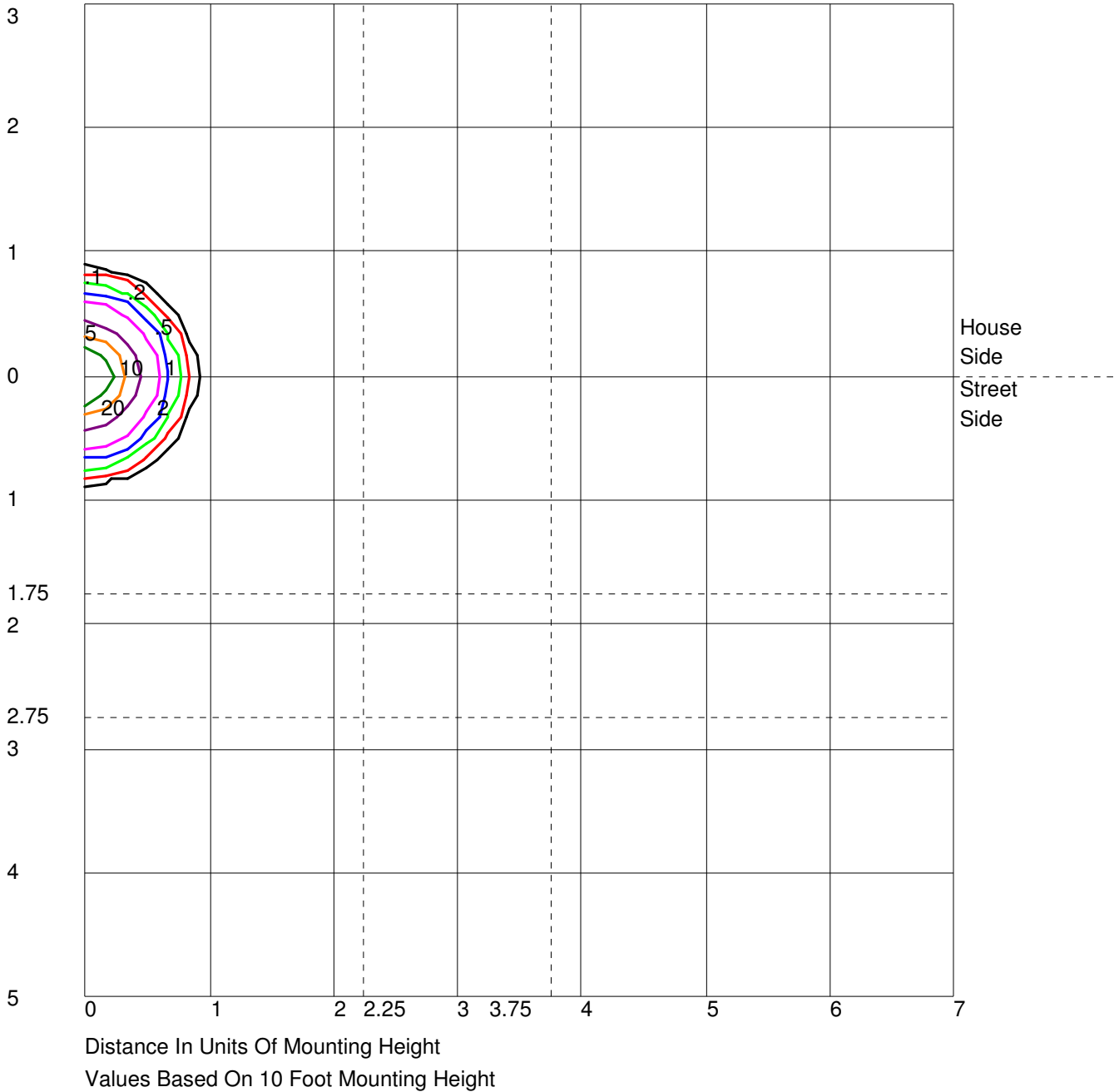


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