

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-930-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-L10-930-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	1062
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3011.199
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	3011.199
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.097 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.485 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-930-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	466.7	N.A.	43.9
FM - Front-Medium (30-60)	61.0	N.A.	5.7
FH - Front-High (60-80)	3.0	N.A.	0.3
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	466.7	N.A.	43.9
BM - Back-Medium (30-60)	61.0	N.A.	5.7
BH - Back-High (60-80)	3.0	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	1061.9	N.A.	100.0
BUG Rating	B1-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-930-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	3011.199	3011.199	3011.199	3011.199	3011.199
1	3007.625	3007.488	3006.906	3006.758	3007.855
2	2992.851	2991.974	2991.395	2986.577	2985.574
3	2965.266	2960.782	2961.537	2958.715	2960.150
4	2921.242	2918.776	2916.273	2913.224	2915.745
5	2860.072	2863.825	2856.390	2851.705	2857.893
6	2784.296	2786.910	2781.445	2779.352	2783.738
7	2699.355	2695.749	2692.027	2692.714	2696.133
8	2595.969	2590.716	2589.307	2588.573	2593.654
9	2475.562	2472.509	2468.713	2468.705	2478.151
10	2340.802	2337.350	2334.858	2334.668	2346.759
11	2189.757	2186.866	2188.473	2191.206	2202.068
12	2026.883	2025.204	2029.152	2033.898	2048.107
13	1856.347	1857.936	1864.322	1870.844	1883.953
14	1683.963	1686.990	1698.043	1706.219	1716.229
15	1515.009	1520.409	1534.756	1544.079	1553.625
16	1353.742	1362.102	1378.382	1391.067	1396.011
17	1208.400	1216.961	1236.125	1246.175	1249.155
18	1078.411	1081.942	1103.188	1113.449	1116.613
19	955.289	965.716	987.624	996.045	999.086
20	852.141	862.920	882.253	894.532	897.333
21	764.967	774.208	793.289	802.828	801.872
22	691.827	701.146	717.693	725.506	723.982
23	632.047	638.911	653.926	660.840	658.230
24	580.883	586.643	601.119	606.084	603.362
25	536.266	542.353	555.463	559.375	555.840
26	496.237	502.292	513.967	517.264	514.186
27	459.092	463.582	474.646	477.461	474.804
28	421.565	424.923	434.638	437.047	435.257
29	383.575	386.451	393.290	396.303	395.591
30	344.010	345.124	351.129	354.411	353.523
31	302.233	302.902	307.270	310.212	310.258
32	261.219	260.831	263.610	266.655	266.724
33	219.496	218.802	221.204	223.879	223.577
34	179.503	179.223	180.805	183.124	183.192
35	144.551	142.570	144.120	145.162	144.609
36	111.055	110.595	111.411	111.994	110.919
37	83.686	83.866	83.010	82.963	84.150
38	62.073	62.997	60.987	61.466	61.699
39	45.512	45.059	45.365	44.531	44.354
40	34.841	33.248	33.305	33.255	33.248
41	25.359	25.384	25.834	26.010	26.308
42	20.239	20.466	21.163	21.559	22.051
43	17.417	17.629	18.391	18.920	19.315
44	15.961	16.119	16.859	17.413	17.665
45	15.313	15.421	16.148	16.590	16.795
46	15.101	15.238	15.871	16.212	16.399
47	15.170	15.303	15.831	16.104	16.291
48	15.353	15.443	15.892	16.090	16.291
49	15.461	15.558	15.935	16.072	16.248
50	15.472	15.547	15.885	15.989	16.122
51	15.303	15.360	15.677	15.756	15.849
52	14.842	14.914	15.191	15.231	15.288

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53	14.152	14.213	14.476	14.472	14.508
54	13.271	13.343	13.566	13.530	13.573
55	12.286	12.329	12.530	12.476	12.502
56	11.218	11.240	11.380	11.344	11.351
57	10.082	10.107	10.193	10.172	10.157
58	8.996	9.014	9.057	9.039	9.025
59	7.989	7.982	7.993	7.971	7.964
60	7.072	7.058	7.040	7.036	7.033
61	6.281	6.256	6.235	6.220	6.227
62	5.605	5.569	5.551	5.537	5.544
63	5.045	5.016	4.980	4.969	4.983
64	4.570	4.548	4.520	4.502	4.527
65	4.192	4.171	4.146	4.120	4.149
66	3.854	3.844	3.815	3.797	3.829
67	3.574	3.563	3.531	3.520	3.552
68	3.311	3.304	3.279	3.261	3.301
69	3.074	3.071	3.038	3.024	3.060
70	2.855	2.848	2.815	2.794	2.822
71	2.636	2.636	2.592	2.567	2.585
72	2.427	2.423	2.377	2.344	2.366
73	2.215	2.211	2.157	2.118	2.136
74	1.992	1.988	1.931	1.884	1.902
75	1.758	1.740	1.690	1.636	1.650
76	1.489	1.467	1.406	1.363	1.377
77	1.183	1.169	1.089	1.057	1.057
78	0.827	0.820	0.741	0.698	0.705
79	0.536	0.543	0.521	0.525	0.525
80	0.485	0.485	0.478	0.478	0.478
81	0.453	0.453	0.453	0.457	0.453
82	0.431	0.428	0.428	0.431	0.431
83	0.403	0.399	0.399	0.399	0.403
84	0.370	0.367	0.367	0.370	0.370
85	0.334	0.334	0.334	0.334	0.334
86	0.295	0.291	0.291	0.291	0.295
87	0.244	0.244	0.244	0.244	0.244
88	0.191	0.191	0.191	0.187	0.187
89	0.133	0.129	0.129	0.129	0.129
90	0.097	0.090	0.090	0.086	0.083
91	0.090	0.086	0.083	0.079	0.079
92	0.090	0.086	0.083	0.083	0.079
93	0.090	0.086	0.086	0.083	0.083
94	0.090	0.086	0.086	0.083	0.083
95	0.090	0.086	0.086	0.083	0.086
96	0.093	0.086	0.086	0.083	0.083
97	0.093	0.090	0.086	0.086	0.086
98	0.093	0.090	0.090	0.090	0.090
99	0.101	0.090	0.090	0.090	0.090
100	0.101	0.093	0.090	0.090	0.090
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

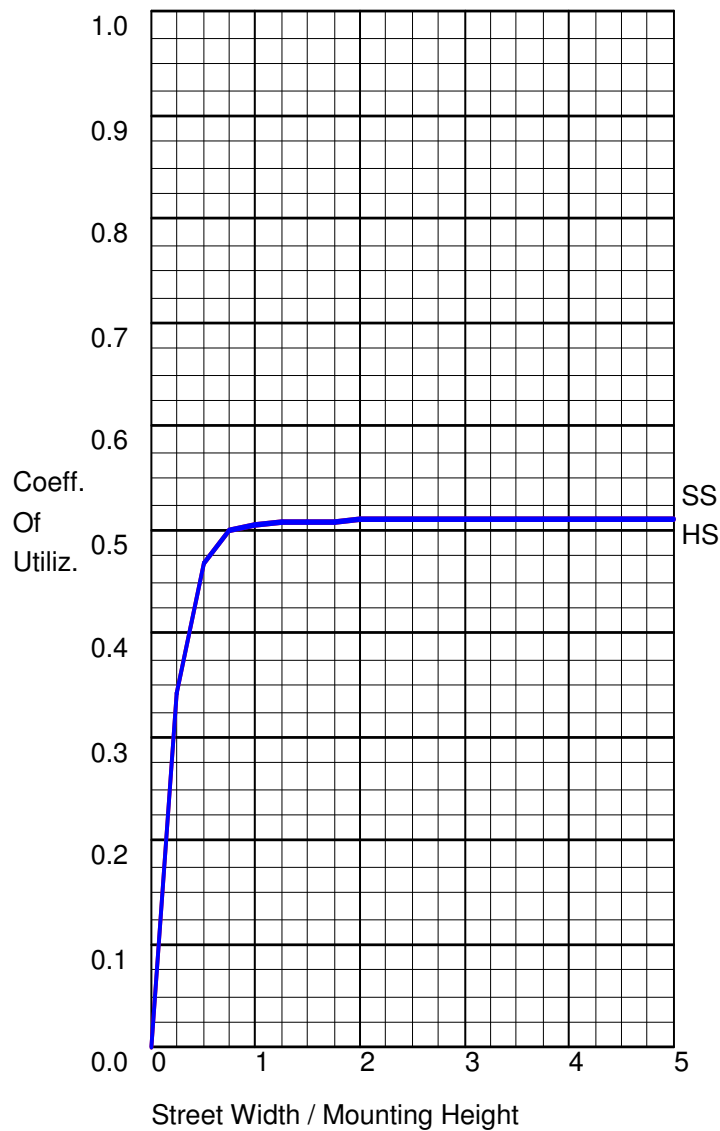
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-930-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L10-930-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

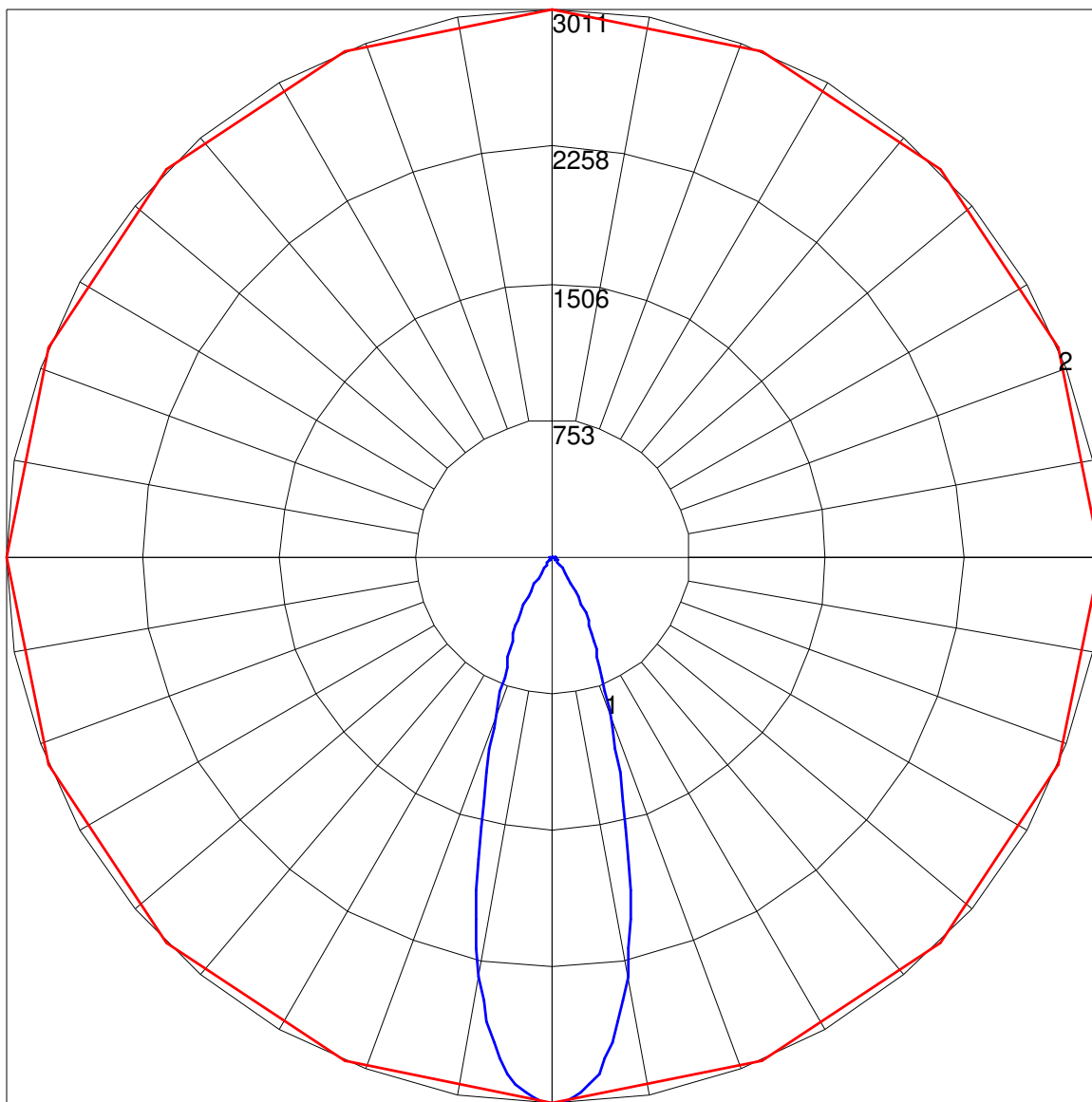
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	530.8	50.0
Downward House Side	530.8	50.0
Downward Total	1061.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	1061.6	100.0

POLAR GRAPH



Maximum Candela = 3011.199 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

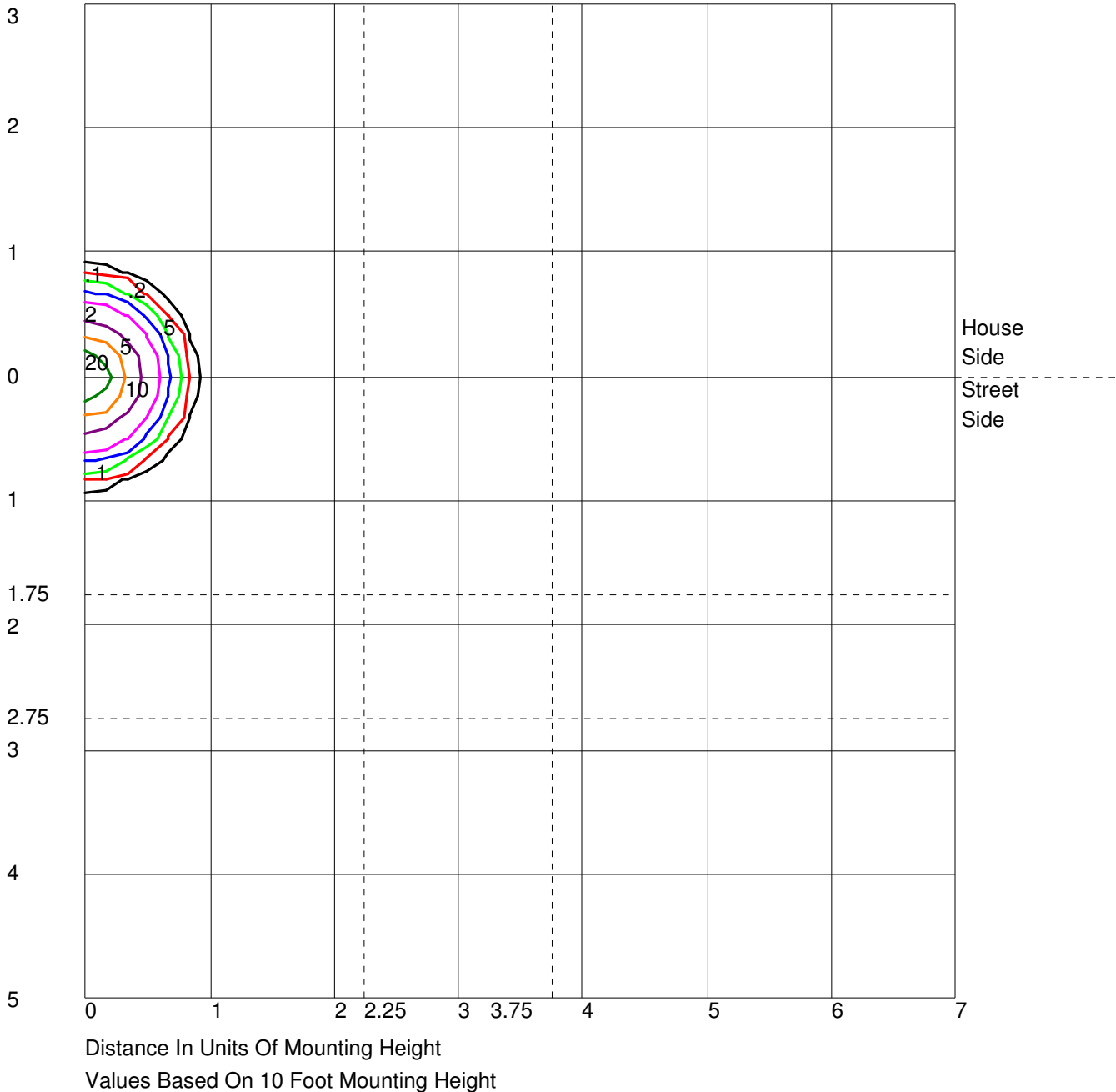


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