

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-830-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-L10-830-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	1106
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3136.666
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	3136.666
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.101 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.506 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-830-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	486.1	N.A.	43.9
FM - Front-Medium (30-60)	63.5	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)	486.1	N.A.	43.9
BM - Back-Medium (30-60)	63.5	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	1106.1	N.A.	100.0
BUG Rating	B1-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	3136.666	3136.666	3136.666	3136.666	3136.666
1	3132.943	3132.800	3132.194	3132.040	3133.182
2	3117.553	3116.639	3116.036	3111.018	3109.973
3	3088.819	3084.148	3084.935	3081.995	3083.489
4	3042.961	3040.392	3037.785	3034.609	3037.234
5	2979.241	2983.152	2975.406	2970.526	2976.972
6	2900.308	2903.031	2897.338	2895.158	2899.728
7	2811.828	2808.072	2804.195	2804.911	2808.472
8	2704.135	2698.663	2697.194	2696.430	2701.723
9	2578.711	2575.531	2571.576	2571.568	2581.407
10	2438.335	2434.740	2432.144	2431.945	2444.541
11	2280.997	2277.986	2279.660	2282.506	2293.821
12	2111.337	2109.587	2113.700	2118.644	2133.445
13	1933.695	1935.350	1942.002	1948.796	1962.452
14	1754.128	1757.282	1768.795	1777.312	1787.739
15	1578.134	1583.760	1598.704	1608.416	1618.359
16	1410.148	1418.856	1435.815	1449.029	1454.178
17	1258.750	1267.668	1287.631	1298.099	1301.204
18	1123.345	1127.023	1149.154	1159.843	1163.139
19	995.093	1005.954	1028.775	1037.546	1040.715
20	887.647	898.875	919.014	931.804	934.722
21	796.841	806.466	826.343	836.279	835.283
22	720.653	730.361	747.597	755.736	754.147
23	658.383	665.533	681.173	688.375	685.656
24	605.087	611.087	626.165	631.338	628.502
25	558.611	564.951	578.607	582.682	579.000
26	516.914	523.221	535.382	538.816	535.610
27	478.221	482.898	494.423	497.355	494.588
28	439.130	442.628	452.748	455.258	453.393
29	399.557	402.553	409.677	412.816	412.074
30	358.343	359.504	365.759	369.179	368.253
31	314.826	315.523	320.073	323.137	323.186
32	272.103	271.698	274.594	277.766	277.837
33	228.642	227.919	230.421	233.208	232.893
34	186.983	186.690	188.338	190.754	190.825
35	150.574	148.510	150.125	151.211	150.634
36	115.682	115.203	116.053	116.660	115.540
37	87.173	87.360	86.469	86.420	87.656
38	64.660	65.622	63.529	64.027	64.270
39	47.409	46.937	47.255	46.386	46.203
40	36.292	34.633	34.693	34.641	34.633
41	26.416	26.442	26.910	27.094	27.405
42	21.083	21.318	22.045	22.457	22.970
43	18.142	18.363	19.157	19.708	20.120
44	16.626	16.790	17.562	18.139	18.401
45	15.951	16.064	16.820	17.281	17.495
46	15.730	15.873	16.532	16.888	17.083
47	15.802	15.940	16.491	16.775	16.970
48	15.993	16.086	16.554	16.760	16.970
49	16.105	16.206	16.599	16.742	16.925
50	16.116	16.195	16.547	16.656	16.794
51	15.940	16.000	16.330	16.412	16.509
52	15.461	15.536	15.824	15.865	15.925

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-830-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	14.742	14.805	15.079	15.075	15.112
54	13.824	13.899	14.131	14.094	14.139
55	12.798	12.843	13.053	12.996	13.023
56	11.685	11.708	11.854	11.817	11.824
57	10.502	10.528	10.618	10.596	10.581
58	9.371	9.390	9.435	9.416	9.401
59	8.322	8.315	8.326	8.303	8.296
60	7.367	7.352	7.333	7.330	7.326
61	6.543	6.517	6.494	6.479	6.487
62	5.839	5.802	5.783	5.768	5.775
63	5.255	5.225	5.187	5.176	5.191
64	4.760	4.738	4.708	4.689	4.715
65	4.367	4.345	4.318	4.292	4.322
66	4.015	4.004	3.974	3.955	3.989
67	3.723	3.712	3.678	3.667	3.700
68	3.449	3.442	3.416	3.397	3.438
69	3.202	3.199	3.165	3.150	3.187
70	2.974	2.966	2.933	2.910	2.940
71	2.745	2.745	2.700	2.674	2.693
72	2.528	2.524	2.476	2.442	2.464
73	2.307	2.303	2.247	2.206	2.225
74	2.075	2.071	2.011	1.963	1.981
75	1.831	1.813	1.760	1.704	1.719
76	1.551	1.528	1.464	1.419	1.434
77	1.232	1.217	1.135	1.101	1.101
78	0.861	0.854	0.772	0.727	0.734
79	0.558	0.566	0.543	0.547	0.547
80	0.506	0.506	0.498	0.498	0.498
81	0.472	0.472	0.472	0.476	0.472
82	0.449	0.446	0.446	0.449	0.449
83	0.419	0.416	0.416	0.416	0.419
84	0.386	0.382	0.382	0.386	0.386
85	0.348	0.348	0.348	0.348	0.348
86	0.307	0.303	0.303	0.303	0.307
87	0.255	0.255	0.255	0.255	0.255
88	0.199	0.199	0.199	0.195	0.195
89	0.139	0.135	0.135	0.135	0.135
90	0.101	0.094	0.094	0.090	0.086
91	0.094	0.090	0.086	0.082	0.082
92	0.094	0.090	0.086	0.086	0.082
93	0.094	0.090	0.090	0.086	0.086
94	0.094	0.090	0.090	0.086	0.086
95	0.094	0.090	0.090	0.086	0.090
96	0.097	0.090	0.090	0.086	0.086
97	0.097	0.094	0.090	0.090	0.090
98	0.097	0.094	0.094	0.094	0.094
99	0.105	0.094	0.094	0.094	0.094
100	0.105	0.097	0.094	0.094	0.094
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

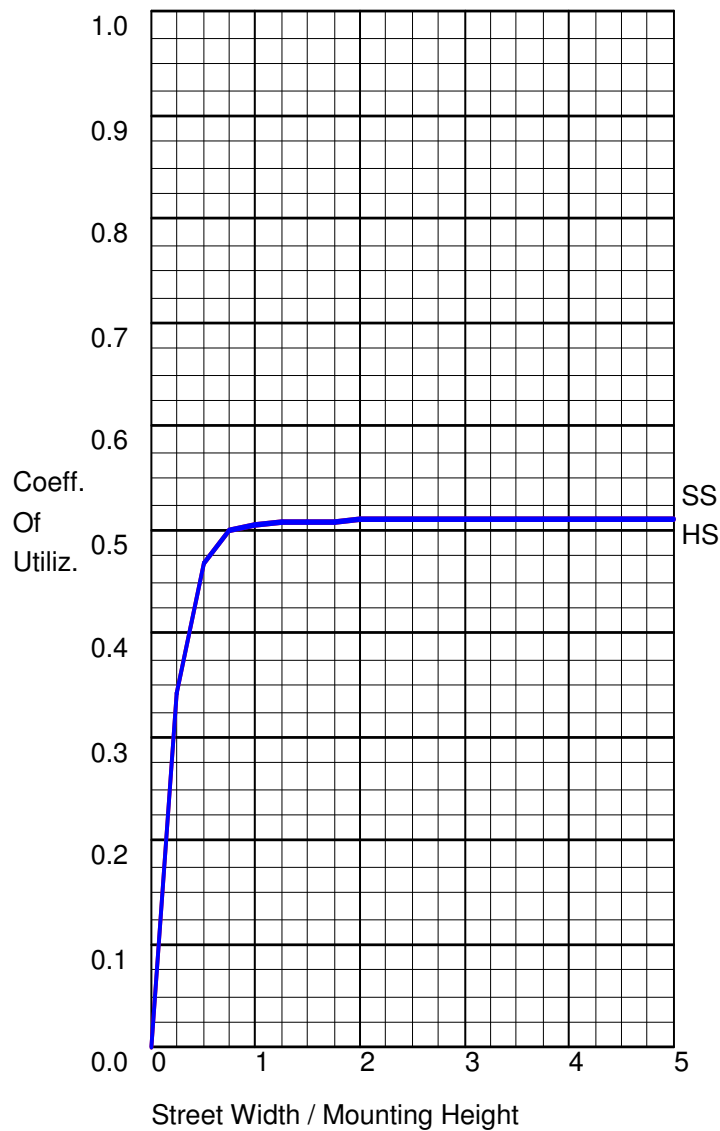
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109	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	0.000
112	0.000	0.000	0.000	0.000	0.000
113	0.000	0.000	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
116	0.000	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-L10-830-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

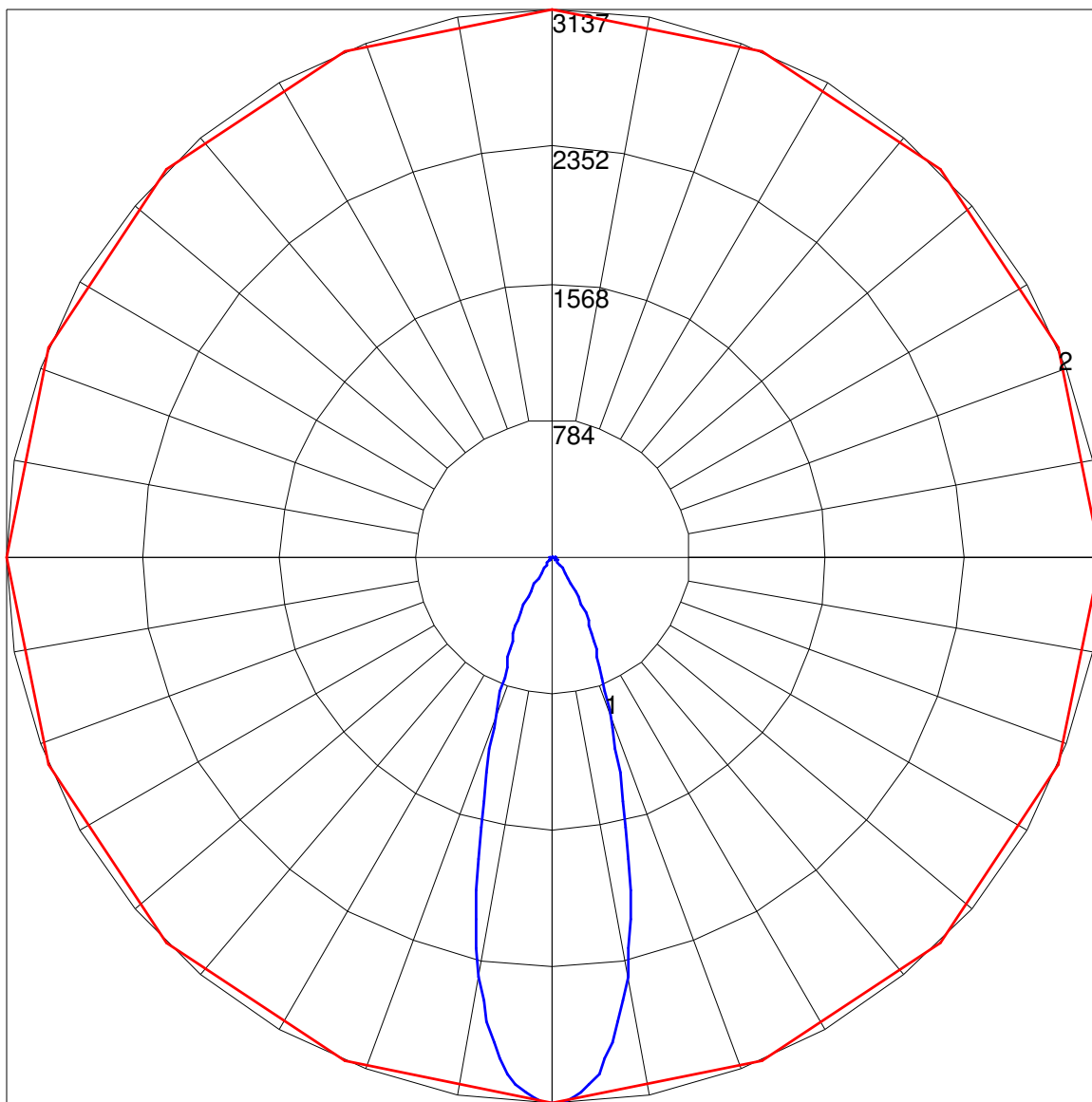
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	552.9	50.0
Downward House Side	552.9	50.0
Downward Total	1105.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1106.0	100.0

POLAR GRAPH



Maximum Candela = 3136.666 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

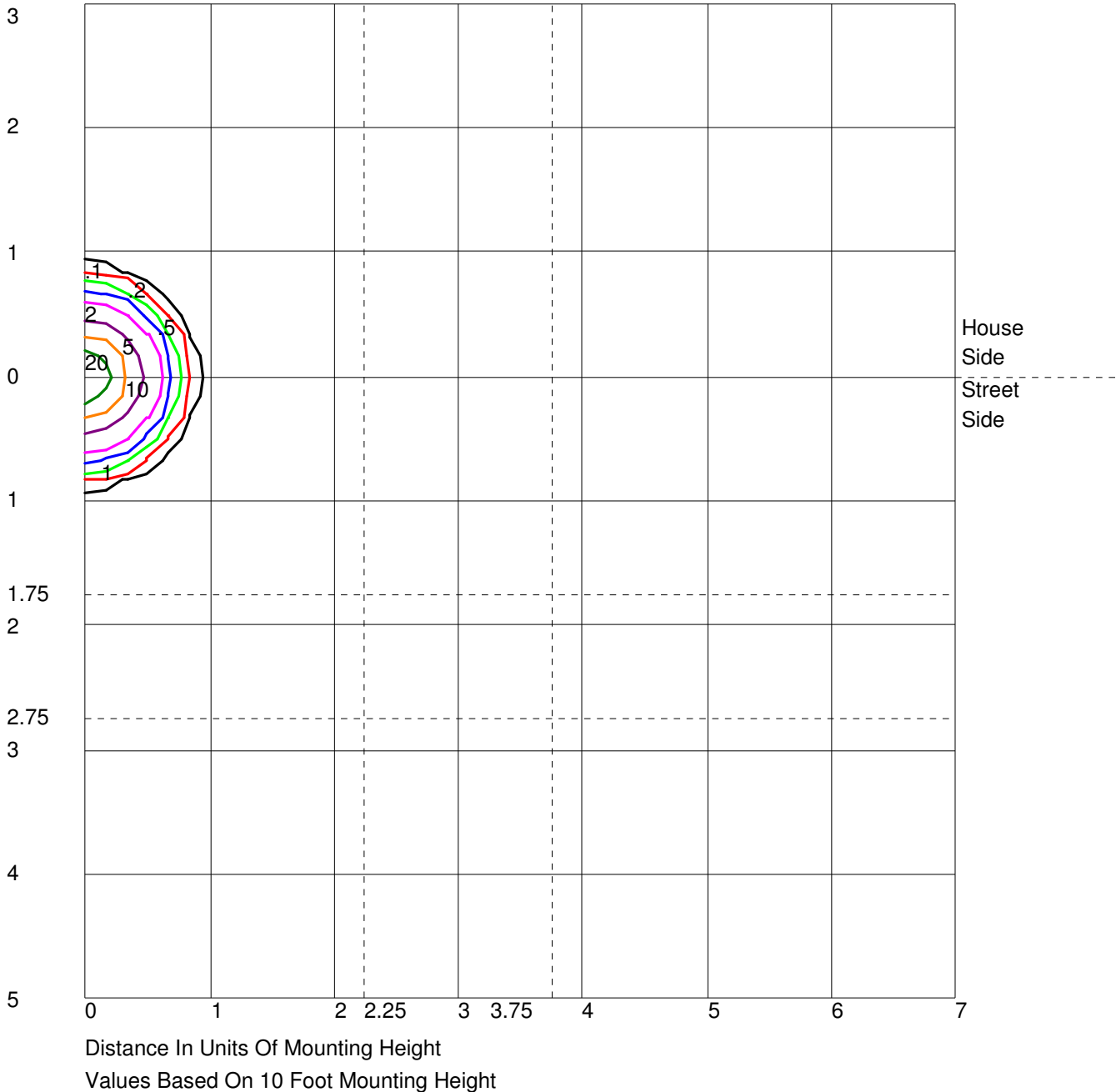


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