

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-827-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/MICROPRISIM LENS
[LUMCAT] W4CR-xx-L15-827-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	1597
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4530.298
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	4530.298
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.146 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.73 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-827-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	702.1	N.A.	43.9
FM - Front-Medium (30-60)	91.7	N.A.	5.7
FH - Front-High (60-80)	4.6	N.A.	0.3
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	702.1	N.A.	43.9
BM - Back-Medium (30-60)	91.7	N.A.	5.7
BH - Back-High (60-80)	4.6	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	1597.5	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	4530.298	4530.298	4530.298	4530.298	4530.298
1	4524.921	4524.715	4523.839	4523.617	4525.267
2	4502.694	4501.374	4500.503	4493.254	4491.745
3	4461.193	4454.447	4455.583	4451.337	4453.495
4	4394.960	4391.249	4387.484	4382.897	4386.689
5	4302.929	4308.577	4297.390	4290.342	4299.651
6	4188.926	4192.859	4184.636	4181.488	4188.087
7	4061.134	4055.708	4050.110	4051.143	4056.287
8	3905.592	3897.688	3895.568	3894.464	3902.108
9	3724.441	3719.849	3714.136	3714.125	3728.336
10	3521.696	3516.503	3512.755	3512.468	3530.660
11	3294.452	3290.103	3292.521	3296.632	3312.974
12	3049.411	3046.885	3052.825	3059.965	3081.343
13	2792.843	2795.234	2804.841	2814.653	2834.376
14	2533.494	2538.048	2554.677	2566.978	2582.038
15	2279.305	2287.430	2309.014	2323.040	2337.402
16	2036.682	2049.259	2073.753	2092.837	2100.275
17	1818.018	1830.897	1859.730	1874.849	1879.333
18	1622.451	1627.763	1659.727	1675.166	1679.926
19	1437.216	1452.904	1485.863	1498.532	1503.109
20	1282.031	1298.249	1327.335	1345.808	1350.022
21	1150.880	1164.782	1193.490	1207.841	1206.402
22	1040.842	1054.863	1079.757	1091.512	1089.218
23	950.905	961.231	983.821	994.223	990.296
24	873.929	882.595	904.373	911.843	907.748
25	806.803	815.961	835.684	841.570	836.252
26	746.580	755.690	773.254	778.215	773.584
27	690.696	697.452	714.097	718.332	714.335
28	634.238	639.290	653.906	657.531	654.837
29	577.082	581.409	591.698	596.231	595.160
30	517.557	519.233	528.267	533.206	531.870
31	454.705	455.711	462.283	466.708	466.778
32	392.999	392.415	396.597	401.178	401.281
33	330.229	329.184	332.798	336.823	336.368
34	270.060	269.638	272.018	275.507	275.610
35	217.475	214.494	216.826	218.394	217.561
36	167.081	166.388	167.616	168.492	166.875
37	125.904	126.175	124.887	124.817	126.602
38	93.388	94.778	91.754	92.474	92.826
39	68.472	67.791	68.251	66.996	66.731
40	52.417	50.021	50.107	50.032	50.021
41	38.153	38.190	38.867	39.132	39.581
42	30.450	30.790	31.840	32.435	33.176
43	26.203	26.522	27.669	28.464	29.059
44	24.012	24.250	25.365	26.198	26.576
45	23.039	23.201	24.294	24.959	25.267
46	22.720	22.925	23.877	24.391	24.672
47	22.822	23.022	23.818	24.229	24.510
48	23.098	23.233	23.910	24.207	24.510
49	23.260	23.407	23.975	24.180	24.445
50	23.277	23.390	23.899	24.056	24.256
51	23.022	23.109	23.585	23.704	23.845
52	22.330	22.438	22.855	22.914	23.001

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-827-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	21.291	21.383	21.778	21.773	21.827
54	19.966	20.074	20.410	20.356	20.421
55	18.484	18.549	18.852	18.771	18.809
56	16.877	16.910	17.121	17.067	17.078
57	15.168	15.206	15.336	15.303	15.282
58	13.534	13.561	13.626	13.599	13.578
59	12.020	12.009	12.025	11.993	11.982
60	10.640	10.619	10.592	10.586	10.581
61	9.450	9.412	9.380	9.358	9.369
62	8.433	8.379	8.352	8.330	8.341
63	7.589	7.546	7.492	7.476	7.497
64	6.875	6.843	6.800	6.773	6.810
65	6.307	6.275	6.237	6.199	6.242
66	5.799	5.783	5.739	5.712	5.761
67	5.377	5.361	5.312	5.296	5.345
68	4.982	4.971	4.933	4.906	4.966
69	4.625	4.620	4.571	4.549	4.603
70	4.295	4.284	4.236	4.203	4.246
71	3.965	3.965	3.900	3.862	3.889
72	3.651	3.646	3.576	3.527	3.559
73	3.332	3.327	3.246	3.186	3.213
74	2.997	2.991	2.905	2.835	2.862
75	2.645	2.618	2.542	2.461	2.483
76	2.239	2.207	2.115	2.050	2.072
77	1.780	1.758	1.639	1.590	1.590
78	1.244	1.233	1.114	1.049	1.060
79	0.806	0.817	0.784	0.790	0.790
80	0.730	0.730	0.719	0.719	0.719
81	0.682	0.682	0.682	0.687	0.682
82	0.649	0.644	0.644	0.649	0.649
83	0.606	0.600	0.600	0.600	0.606
84	0.557	0.552	0.552	0.557	0.557
85	0.503	0.503	0.503	0.503	0.503
86	0.444	0.438	0.438	0.438	0.444
87	0.368	0.368	0.368	0.368	0.368
88	0.287	0.287	0.287	0.281	0.281
89	0.200	0.195	0.195	0.195	0.195
90	0.146	0.135	0.135	0.130	0.124
91	0.135	0.130	0.124	0.119	0.119
92	0.135	0.130	0.124	0.124	0.119
93	0.135	0.130	0.130	0.124	0.124
94	0.135	0.130	0.130	0.124	0.124
95	0.135	0.130	0.130	0.124	0.130
96	0.141	0.130	0.130	0.124	0.124
97	0.141	0.135	0.130	0.130	0.130
98	0.141	0.135	0.135	0.135	0.135
99	0.151	0.135	0.135	0.135	0.135
100	0.151	0.141	0.135	0.135	0.135
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

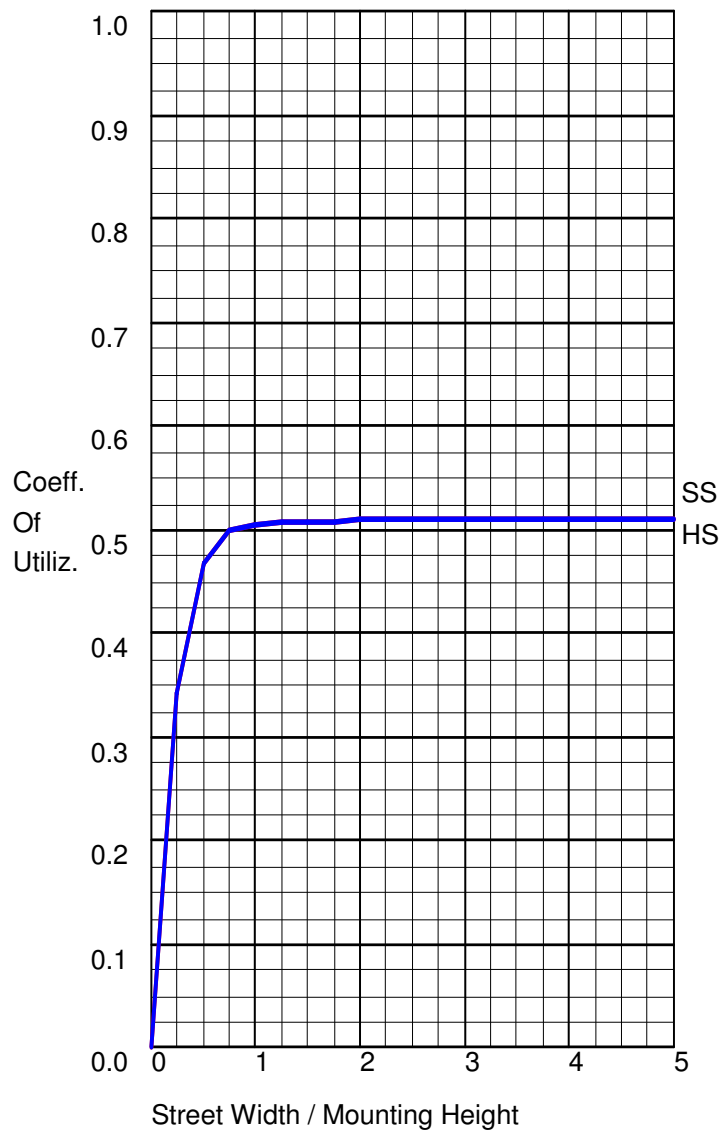
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-827-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L15-827-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

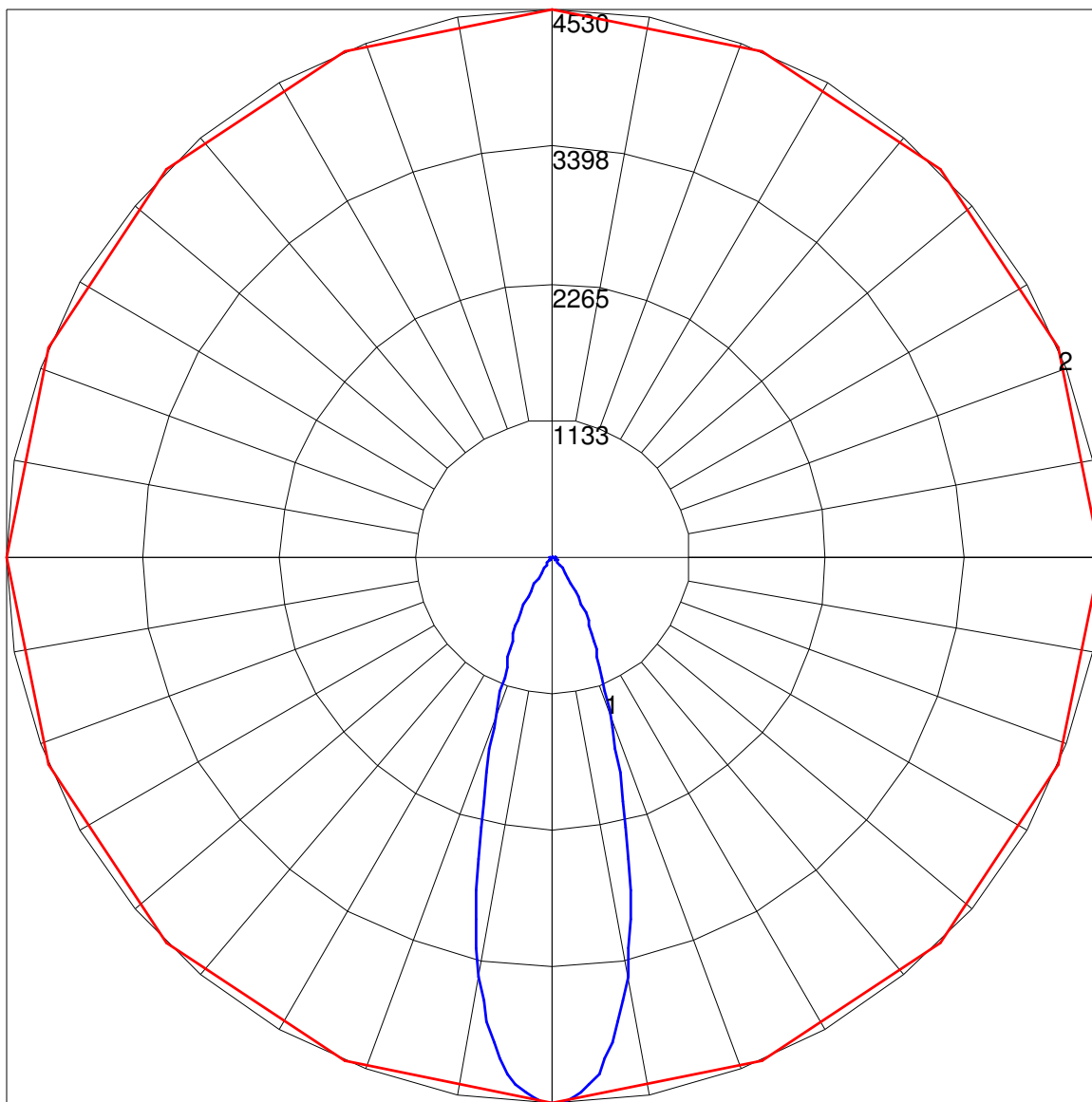
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	798.6	50.0
Downward House Side	798.6	50.0
Downward Total	1597.2	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1597.4	100.0

POLAR GRAPH



Maximum Candela = 4530.298 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

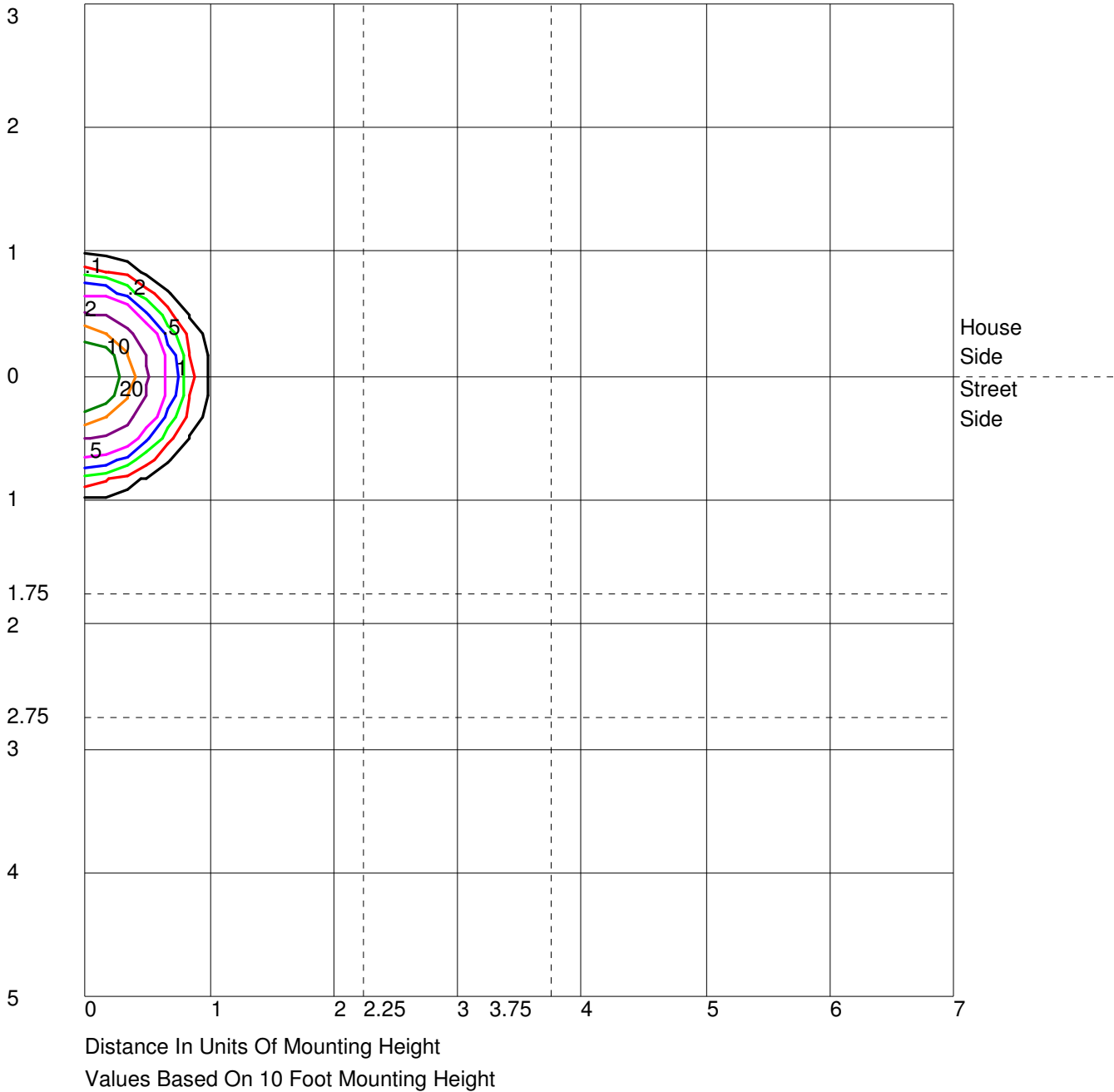


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