

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-840-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-L15-840-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	1646
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4668.98
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	4668.98
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.151 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.753 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-840-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	723.6	N.A.	44.0
FM - Front-Medium (30-60)	94.5	N.A.	5.7
FH - Front-High (60-80)	4.7	N.A.	0.3
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	723.6	N.A.	44.0
BM - Back-Medium (30-60)	94.5	N.A.	5.7
BH - Back-High (60-80)	4.7	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	1646.3	N.A.	100.0
BUG Rating	B2-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-840-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	4668.980	4668.980	4668.980	4668.980	4668.980
1	4663.438	4663.226	4662.323	4662.095	4663.795
2	4640.531	4639.170	4638.273	4630.802	4629.247
3	4597.759	4590.807	4591.978	4587.601	4589.826
4	4529.499	4525.674	4521.794	4517.066	4520.975
5	4434.651	4440.471	4428.942	4421.678	4431.273
6	4317.158	4321.211	4312.737	4309.492	4316.294
7	4185.454	4179.862	4174.092	4175.157	4180.459
8	4025.150	4017.005	4014.820	4013.682	4021.560
9	3838.454	3833.721	3827.834	3827.823	3842.468
10	3629.503	3624.151	3620.287	3619.992	3638.741
11	3395.302	3390.820	3393.312	3397.549	3414.391
12	3142.760	3140.157	3146.278	3153.637	3175.669
13	2878.338	2880.802	2890.703	2900.816	2921.142
14	2611.049	2615.743	2632.881	2645.559	2661.079
15	2349.080	2357.453	2379.698	2394.154	2408.955
16	2099.029	2111.991	2137.235	2156.904	2164.569
17	1873.671	1886.945	1916.660	1932.242	1936.864
18	1672.118	1677.592	1710.535	1726.446	1731.352
19	1481.213	1497.380	1531.349	1544.405	1549.122
20	1321.277	1337.991	1367.968	1387.006	1391.349
21	1186.111	1200.439	1230.025	1244.816	1243.333
22	1072.704	1087.154	1112.811	1124.925	1122.561
23	980.014	990.657	1013.938	1024.659	1020.611
24	900.682	909.613	932.058	939.757	935.536
25	831.501	840.940	861.266	867.332	861.852
26	769.435	778.823	796.925	802.037	797.265
27	711.839	718.802	735.957	740.322	736.202
28	653.653	658.860	673.924	677.659	674.883
29	594.747	599.207	609.811	614.483	613.379
30	533.400	535.128	544.439	549.529	548.151
31	468.624	469.661	476.435	480.995	481.067
32	405.030	404.428	408.737	413.459	413.565
33	340.338	339.262	342.986	347.133	346.665
34	278.327	277.892	280.345	283.941	284.047
35	224.132	221.060	223.463	225.080	224.221
36	172.195	171.482	172.747	173.650	171.983
37	129.758	130.037	128.710	128.638	130.477
38	96.247	97.680	94.563	95.305	95.667
39	70.568	69.866	70.340	69.046	68.773
40	54.022	51.552	51.641	51.563	51.552
41	39.321	39.360	40.056	40.330	40.792
42	31.382	31.733	32.814	33.428	34.192
43	27.005	27.334	28.516	29.336	29.949
44	24.747	24.993	26.141	27.000	27.390
45	23.744	23.911	25.037	25.723	26.041
46	23.415	23.627	24.608	25.138	25.428
47	23.521	23.727	24.547	24.970	25.260
48	23.805	23.945	24.642	24.948	25.260
49	23.973	24.123	24.708	24.920	25.193
50	23.989	24.106	24.630	24.792	24.998
51	23.727	23.816	24.307	24.430	24.575
52	23.014	23.125	23.554	23.616	23.705

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-840-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	21.943	22.038	22.445	22.439	22.495
54	20.577	20.689	21.035	20.979	21.046
55	19.050	19.117	19.429	19.345	19.384
56	17.394	17.427	17.645	17.589	17.600
57	15.632	15.671	15.805	15.772	15.749
58	13.949	13.977	14.043	14.016	13.993
59	12.388	12.377	12.393	12.360	12.349
60	10.966	10.944	10.916	10.910	10.905
61	9.740	9.701	9.667	9.645	9.656
62	8.691	8.636	8.608	8.586	8.597
63	7.822	7.777	7.721	7.705	7.727
64	7.086	7.052	7.008	6.980	7.019
65	6.500	6.467	6.428	6.389	6.434
66	5.976	5.960	5.915	5.887	5.937
67	5.542	5.525	5.475	5.458	5.508
68	5.135	5.123	5.084	5.057	5.118
69	4.767	4.761	4.711	4.689	4.744
70	4.427	4.415	4.365	4.332	4.376
71	4.086	4.086	4.020	3.981	4.008
72	3.763	3.758	3.685	3.635	3.668
73	3.434	3.429	3.345	3.284	3.312
74	3.089	3.083	2.994	2.921	2.949
75	2.726	2.698	2.620	2.537	2.559
76	2.308	2.275	2.180	2.113	2.135
77	1.834	1.812	1.689	1.639	1.639
78	1.282	1.271	1.148	1.082	1.093
79	0.831	0.842	0.808	0.814	0.814
80	0.753	0.753	0.741	0.741	0.741
81	0.702	0.702	0.702	0.708	0.702
82	0.669	0.663	0.663	0.669	0.669
83	0.624	0.619	0.619	0.619	0.624
84	0.574	0.569	0.569	0.574	0.574
85	0.518	0.518	0.518	0.518	0.518
86	0.457	0.452	0.452	0.452	0.457
87	0.379	0.379	0.379	0.379	0.379
88	0.295	0.295	0.295	0.290	0.290
89	0.206	0.201	0.201	0.201	0.201
90	0.151	0.139	0.139	0.134	0.128
91	0.139	0.134	0.128	0.123	0.123
92	0.139	0.134	0.128	0.128	0.123
93	0.139	0.134	0.134	0.128	0.128
94	0.139	0.134	0.134	0.128	0.128
95	0.139	0.134	0.134	0.128	0.134
96	0.145	0.134	0.134	0.128	0.128
97	0.145	0.139	0.134	0.134	0.134
98	0.145	0.139	0.139	0.139	0.139
99	0.156	0.139	0.139	0.139	0.139
100	0.156	0.145	0.139	0.139	0.139
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

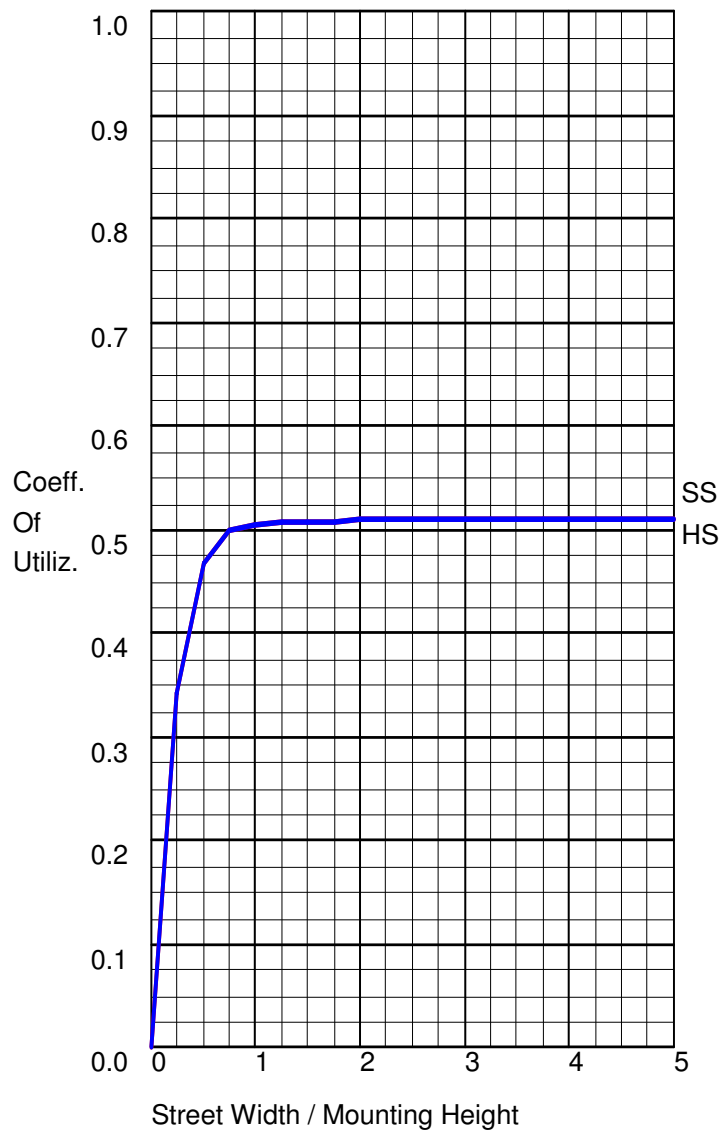
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-840-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L15-840-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

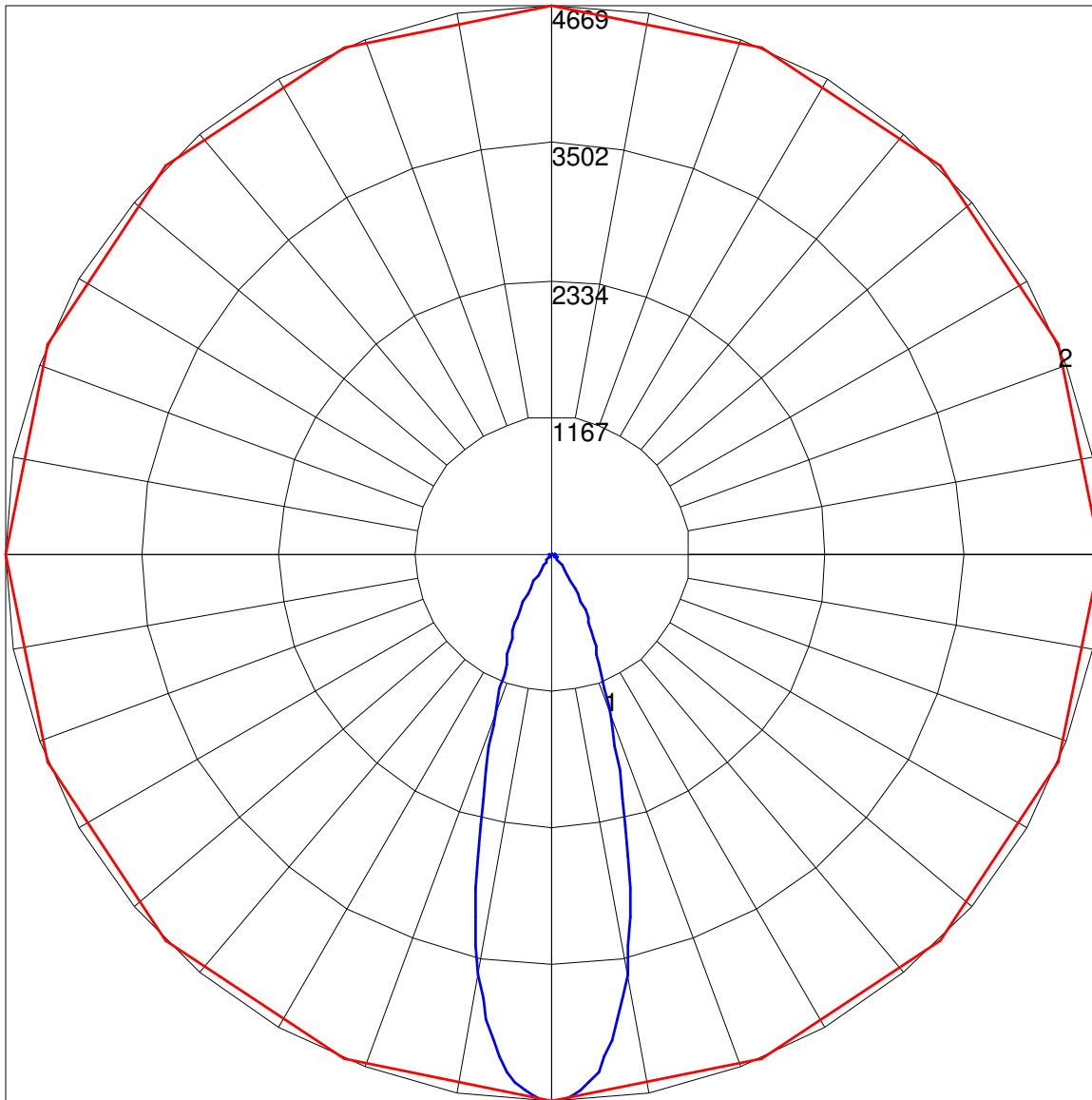
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	823.0	50.0
Downward House Side	823.0	50.0
Downward Total	1646.0	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1646.2	100.0

POLAR GRAPH



Maximum Candela = 4668.98 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

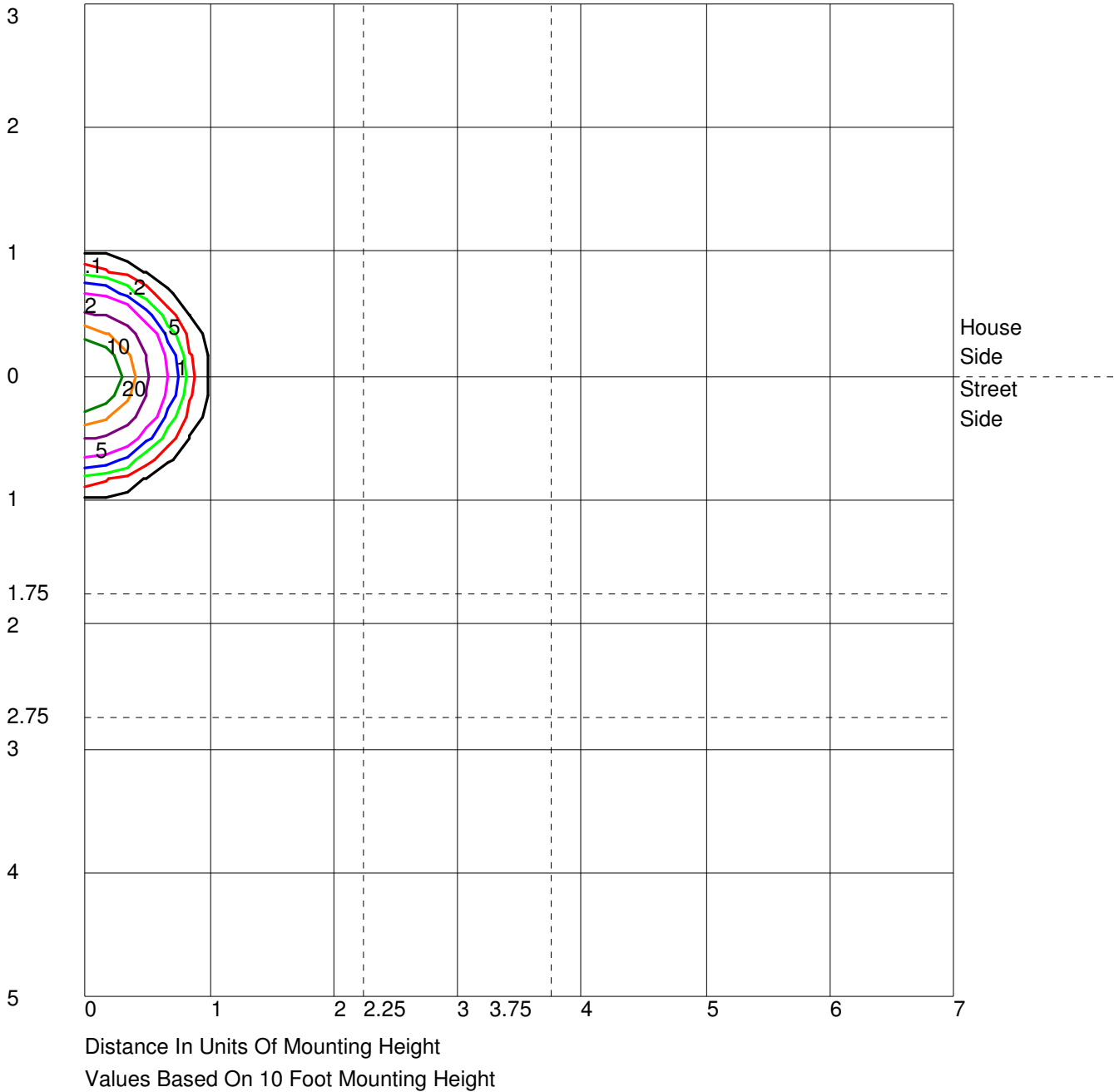


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