

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-827-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-L25-827-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	2776
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12444.857
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	12444.857
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.128 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.566 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-827-XXX-DIM-UNV-S-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1260.3	N.A.	45.4
FM - Front-Medium (30-60)	123.8	N.A.	4.5
FH - Front-High (60-80)	3.7	N.A.	0.1
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	1260.3	N.A.	45.4
BM - Back-Medium (30-60)	123.8	N.A.	4.5
BH - Back-High (60-80)	3.7	N.A.	0.1
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	2776.1	N.A.	100.0
BUG Rating	B3-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	12444.857	12444.857	12444.857	12444.857	12444.857
1	12422.095	12416.784	12417.852	12413.188	12417.961
2	12266.002	12263.857	12255.606	12251.718	12265.043
3	11995.167	11985.666	11978.356	11970.853	12000.734
4	11590.042	11586.930	11574.454	11570.739	11607.511
5	11048.145	11038.370	11034.856	11030.183	11076.565
6	10367.896	10364.291	10367.558	10374.595	10413.046
7	9568.398	9572.112	9595.038	9615.792	9631.244
8	8678.746	8694.909	8739.228	8776.785	8766.198
9	7759.396	7783.572	7852.835	7902.521	7862.263
10	6864.195	6893.519	6979.757	7040.550	6972.282
11	6012.109	6046.443	6146.590	6208.241	6123.536
12	5225.442	5271.578	5369.206	5442.083	5345.659
13	4541.242	4580.112	4682.897	4760.310	4663.932
14	3948.910	3981.292	4077.797	4152.563	4063.405
15	3438.646	3470.297	3566.109	3634.532	3545.702
16	3011.964	3045.596	3115.278	3176.290	3099.023
17	2671.912	2674.632	2743.712	2793.179	2733.673
18	2355.463	2376.673	2430.028	2470.039	2424.716
19	2105.072	2116.854	2174.517	2210.010	2176.762
20	1895.851	1911.595	1951.114	1980.912	1947.810
21	1726.168	1735.651	1769.273	1793.852	1762.310
22	1582.112	1591.166	1617.433	1633.851	1607.119
23	1461.686	1466.422	1486.647	1500.346	1476.279
24	1356.783	1359.311	1375.347	1382.940	1362.186
25	1261.519	1264.649	1274.816	1277.098	1259.639
26	1175.618	1175.390	1179.452	1177.909	1162.686
27	1086.953	1082.481	1084.069	1081.194	1067.294
28	992.272	987.052	985.455	983.775	973.672
29	892.609	887.726	885.937	888.849	881.100
30	786.621	784.886	783.472	789.486	785.096
31	679.574	679.993	680.377	690.097	687.477
32	576.186	578.158	579.080	591.830	592.979
33	475.245	479.042	482.382	495.278	501.046
34	381.678	388.186	392.521	406.275	415.274
35	301.774	307.314	309.139	322.136	334.904
36	226.844	234.775	240.461	249.049	263.150
37	168.333	178.482	180.845	188.439	203.918
38	123.867	130.922	132.866	141.829	153.611
39	93.996	95.109	98.441	104.318	111.327
40	67.939	70.896	75.487	79.749	83.591
41	51.265	53.720	56.841	60.382	64.307
42	39.902	41.955	45.086	47.824	50.936
43	32.299	33.751	36.662	39.071	41.335
44	27.024	28.074	30.593	32.737	33.714
45	23.191	23.985	26.175	27.827	28.265
46	20.407	20.991	22.899	24.094	24.368
47	18.263	18.746	20.371	21.201	21.347
48	16.565	17.030	18.363	18.956	19.038
49	15.232	15.616	16.811	17.186	17.195
50	14.146	14.484	15.515	15.762	15.716
51	13.188	13.508	14.429	14.603	14.511
52	12.312	12.586	13.398	13.453	13.261

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53	11.509	11.755	12.458	12.403	12.148
54	10.806	11.043	11.627	11.472	11.180
55	10.195	10.395	10.888	10.669	10.313
56	9.647	9.793	10.231	9.975	9.547
57	9.127	9.245	9.592	9.346	8.899
58	8.634	8.734	9.026	8.780	8.360
59	8.178	8.251	8.470	8.251	7.858
60	7.721	7.785	7.958	7.739	7.356
61	7.265	7.320	7.475	7.265	6.900
62	6.809	6.854	6.991	6.781	6.425
63	6.352	6.407	6.516	6.307	5.969
64	5.905	5.951	6.060	5.841	5.513
65	5.467	5.522	5.604	5.394	5.084
66	5.038	5.084	5.166	4.965	4.645
67	4.627	4.682	4.755	4.572	4.253
68	4.253	4.290	4.372	4.171	3.870
69	3.888	3.934	4.007	3.815	3.505
70	3.541	3.587	3.669	3.459	3.149
71	3.213	3.249	3.331	3.121	2.811
72	2.893	2.930	2.994	2.793	2.492
73	2.574	2.610	2.665	2.455	2.190
74	2.245	2.282	2.318	2.136	1.862
75	1.907	1.935	1.944	1.798	1.524
76	1.579	1.597	1.552	1.460	1.214
77	1.287	1.296	1.214	1.132	0.931
78	0.995	0.967	0.840	0.776	0.685
79	0.621	0.639	0.611	0.602	0.575
80	0.566	0.566	0.566	0.557	0.538
81	0.529	0.529	0.538	0.529	0.502
82	0.502	0.502	0.511	0.502	0.475
83	0.465	0.465	0.475	0.475	0.447
84	0.429	0.429	0.429	0.420	0.411
85	0.374	0.383	0.392	0.383	0.365
86	0.329	0.329	0.329	0.329	0.319
87	0.274	0.274	0.274	0.274	0.265
88	0.210	0.210	0.219	0.210	0.201
89	0.155	0.146	0.155	0.146	0.146
90	0.128	0.110	0.119	0.110	0.110
91	0.119	0.110	0.110	0.110	0.100
92	0.110	0.110	0.110	0.110	0.100
93	0.119	0.110	0.110	0.110	0.100
94	0.119	0.110	0.110	0.110	0.100
95	0.119	0.110	0.110	0.110	0.100
96	0.119	0.119	0.110	0.110	0.100
97	0.119	0.119	0.110	0.110	0.110
98	0.119	0.119	0.110	0.110	0.100
99	0.119	0.119	0.110	0.119	0.100
100	0.119	0.119	0.110	0.119	0.110
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

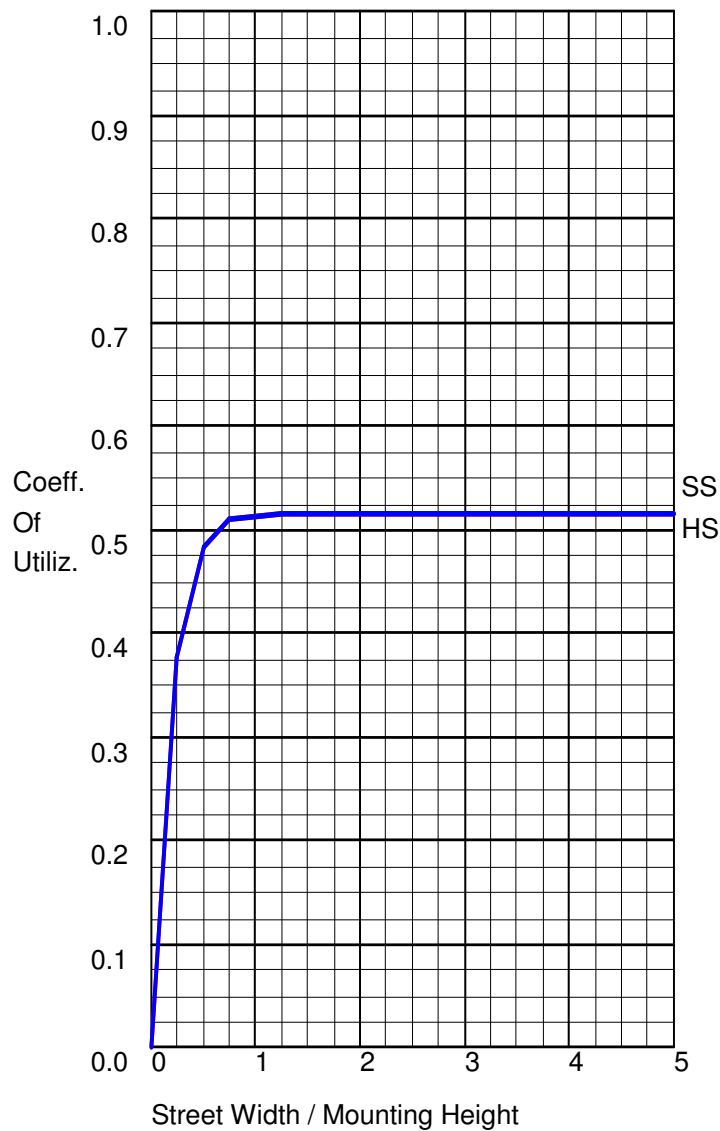
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-827-XXX-DIM-UNV-S-XXX_IES****CANDELA TABULATION - (Cont.)**

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-L25-827-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

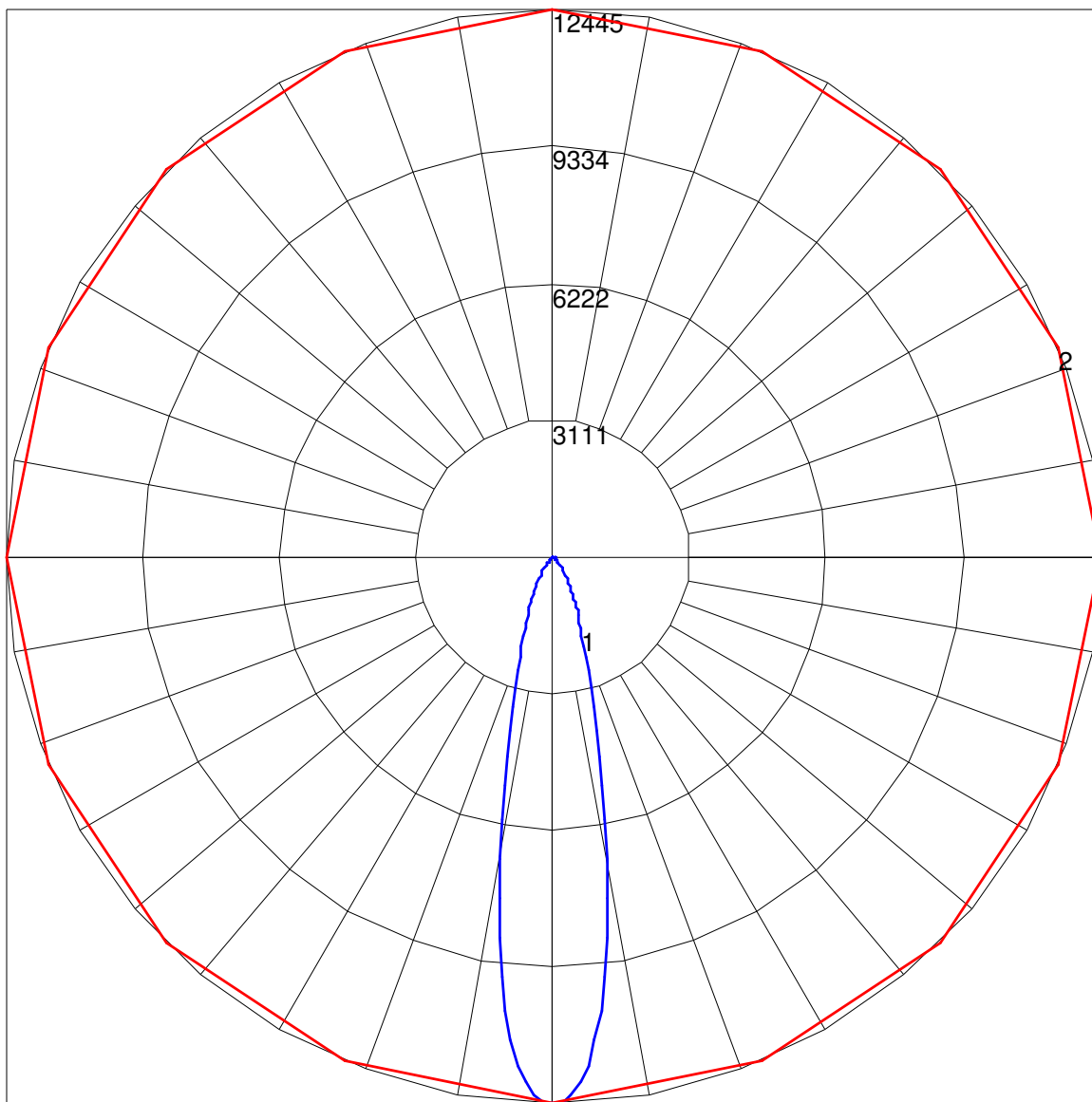
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1388.0	50.0
Downward House Side	1388.0	50.0
Downward Total	2776.0	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2776.2	100.0

POLAR GRAPH



Maximum Candela = 12444.857 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

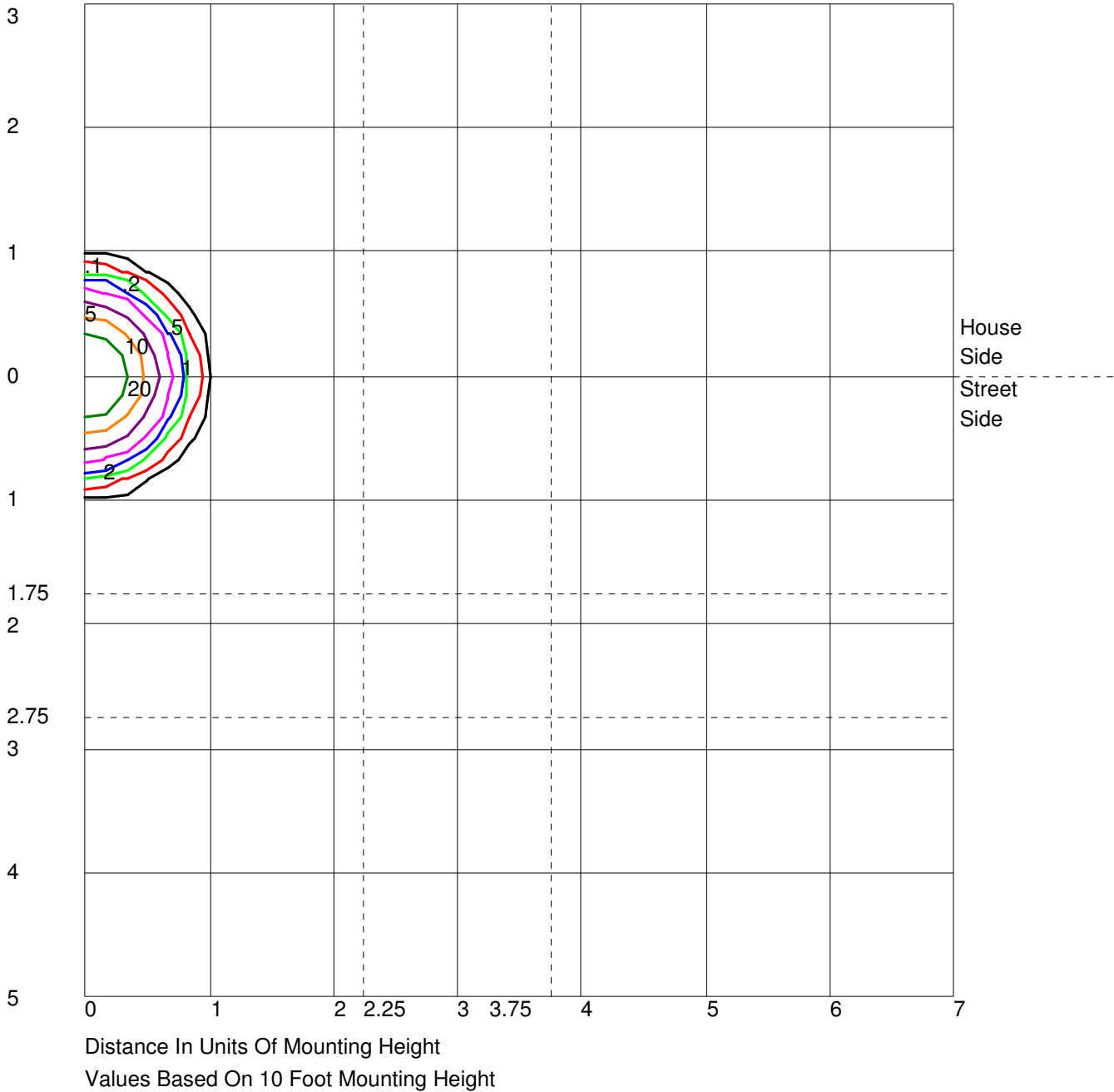


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