

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-950-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-L15-950-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	1626
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7290.286
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	7290.286
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.075 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.331 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-950-XXX-DIM-UNV-S-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	738.3	N.A.	45.4
FM - Front-Medium (30-60)	72.5	N.A.	4.5
FH - Front-High (60-80)	2.2	N.A.	0.1
FVH - Front-Very High (80-90)	0.1	N.A.	0.0
BL - Back-Low (0-30)	738.3	N.A.	45.4
BM - Back-Medium (30-60)	72.5	N.A.	4.5
BH - Back-High (60-80)	2.2	N.A.	0.1
BVH - Back-Very High (80-90)	0.1	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	1626.3	N.A.	100.0
BUG Rating	B2-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-950-XXX-DIM-UNV-S-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	7290.286	7290.286	7290.286	7290.286	7290.286
1	7276.952	7273.840	7274.466	7271.734	7274.530
2	7185.511	7184.255	7179.422	7177.144	7184.950
3	7026.854	7021.289	7017.006	7012.611	7030.116
4	6789.529	6787.706	6780.398	6778.222	6799.762
5	6472.082	6466.356	6464.297	6461.560	6488.731
6	6073.587	6071.475	6073.389	6077.512	6100.036
7	5605.235	5607.411	5620.842	5633.000	5642.051
8	5084.071	5093.540	5119.502	5141.503	5135.301
9	4545.509	4559.672	4600.247	4629.353	4605.770
10	4021.094	4038.273	4088.791	4124.404	4084.413
11	3521.936	3542.050	3600.716	3636.832	3587.211
12	3061.101	3088.128	3145.319	3188.011	3131.525
13	2660.292	2683.062	2743.274	2788.623	2732.164
14	2313.300	2332.269	2388.803	2432.601	2380.371
15	2014.383	2032.925	2089.052	2129.135	2077.097
16	1764.430	1784.132	1824.952	1860.693	1815.430
17	1565.225	1566.819	1607.286	1636.264	1601.405
18	1379.847	1392.272	1423.528	1446.966	1420.416
19	1233.166	1240.068	1273.847	1294.640	1275.163
20	1110.603	1119.826	1142.976	1160.432	1141.041
21	1011.201	1016.756	1036.453	1050.851	1032.374
22	926.813	932.116	947.504	957.122	941.462
23	856.266	859.041	870.888	878.913	864.815
24	794.813	796.294	805.688	810.136	797.978
25	739.007	740.841	746.797	748.133	737.905
26	688.686	688.552	690.931	690.028	681.110
27	636.745	634.125	635.055	633.371	625.228
28	581.280	578.222	577.286	576.303	570.384
29	522.897	520.036	518.988	520.694	516.155
30	460.808	459.792	458.963	462.487	459.915
31	398.099	398.345	398.570	404.264	402.729
32	337.534	338.689	339.229	346.698	347.372
33	278.402	280.626	282.583	290.138	293.517
34	223.590	227.402	229.941	237.999	243.270
35	176.781	180.027	181.096	188.709	196.189
36	132.887	137.533	140.864	145.895	154.155
37	98.611	104.556	105.941	110.389	119.456
38	72.562	76.695	77.834	83.084	89.987
39	55.063	55.716	57.667	61.110	65.216
40	39.799	41.531	44.221	46.718	48.968
41	30.031	31.469	33.298	35.372	37.671
42	23.375	24.578	26.412	28.016	29.839
43	18.921	19.771	21.477	22.888	24.214
44	15.831	16.446	17.921	19.178	19.750
45	13.585	14.051	15.334	16.301	16.558
46	11.955	12.297	13.414	14.115	14.275
47	10.698	10.982	11.933	12.420	12.505
48	9.704	9.977	10.757	11.105	11.153
49	8.923	9.148	9.848	10.067	10.073
50	8.287	8.485	9.089	9.233	9.207
51	7.726	7.913	8.453	8.554	8.501
52	7.212	7.373	7.849	7.881	7.768

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-950-XXX-DIM-UNV-S-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	6.742	6.886	7.298	7.266	7.116
54	6.330	6.469	6.811	6.721	6.549
55	5.972	6.090	6.378	6.250	6.042
56	5.651	5.737	5.993	5.844	5.592
57	5.346	5.416	5.619	5.475	5.213
58	5.058	5.117	5.288	5.143	4.897
59	4.790	4.833	4.962	4.833	4.603
60	4.523	4.561	4.662	4.534	4.309
61	4.256	4.288	4.379	4.256	4.042
62	3.988	4.015	4.095	3.972	3.764
63	3.721	3.753	3.817	3.694	3.497
64	3.459	3.486	3.550	3.422	3.229
65	3.203	3.235	3.283	3.160	2.978
66	2.951	2.978	3.026	2.908	2.721
67	2.711	2.743	2.786	2.679	2.491
68	2.491	2.513	2.561	2.443	2.267
69	2.278	2.304	2.347	2.235	2.053
70	2.074	2.101	2.149	2.026	1.845
71	1.882	1.903	1.951	1.828	1.647
72	1.695	1.716	1.754	1.636	1.460
73	1.508	1.529	1.561	1.438	1.283
74	1.315	1.337	1.358	1.251	1.091
75	1.117	1.133	1.139	1.053	0.893
76	0.925	0.936	0.909	0.855	0.711
77	0.754	0.759	0.711	0.663	0.545
78	0.583	0.567	0.492	0.454	0.401
79	0.364	0.374	0.358	0.353	0.337
80	0.331	0.331	0.331	0.326	0.315
81	0.310	0.310	0.315	0.310	0.294
82	0.294	0.294	0.299	0.294	0.278
83	0.273	0.273	0.278	0.278	0.262
84	0.251	0.251	0.251	0.246	0.241
85	0.219	0.225	0.230	0.225	0.214
86	0.192	0.192	0.192	0.192	0.187
87	0.160	0.160	0.160	0.160	0.155
88	0.123	0.123	0.128	0.123	0.118
89	0.091	0.086	0.091	0.086	0.086
90	0.075	0.064	0.070	0.064	0.064
91	0.070	0.064	0.064	0.064	0.059
92	0.064	0.064	0.064	0.064	0.059
93	0.070	0.064	0.064	0.064	0.059
94	0.070	0.064	0.064	0.064	0.059
95	0.070	0.064	0.064	0.064	0.059
96	0.070	0.070	0.064	0.064	0.059
97	0.070	0.070	0.064	0.064	0.064
98	0.070	0.070	0.064	0.064	0.059
99	0.070	0.070	0.064	0.070	0.059
100	0.070	0.070	0.064	0.070	0.064
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

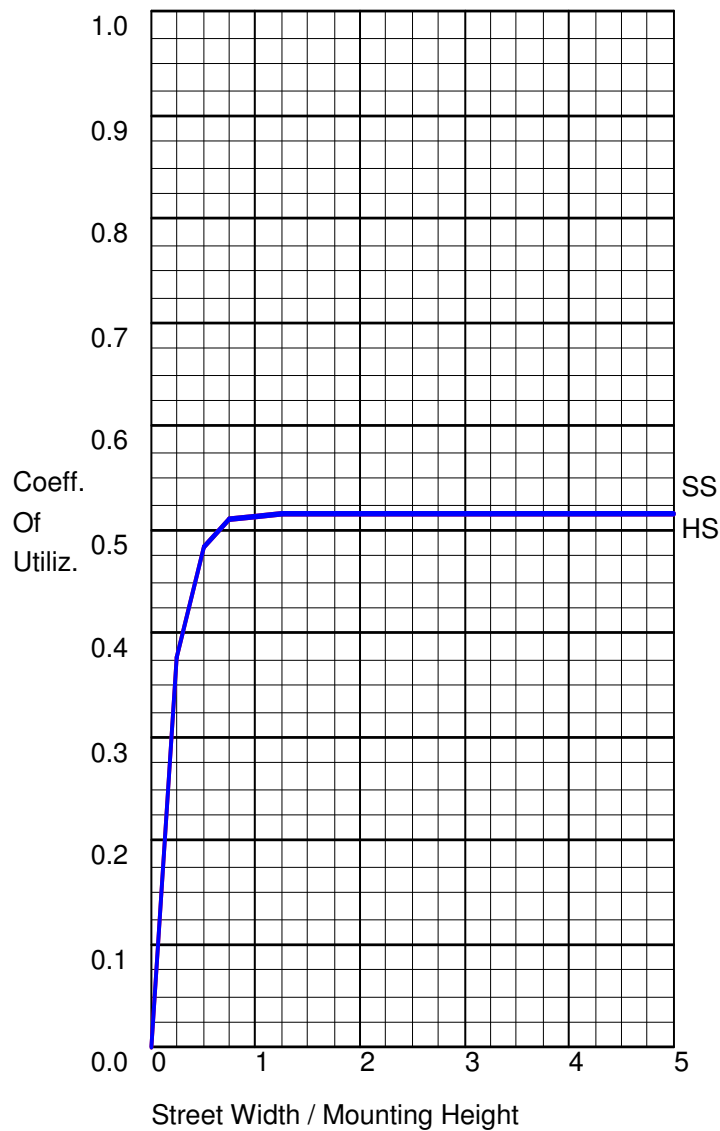
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-950-XXX-DIM-UNV-S-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L15-950-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

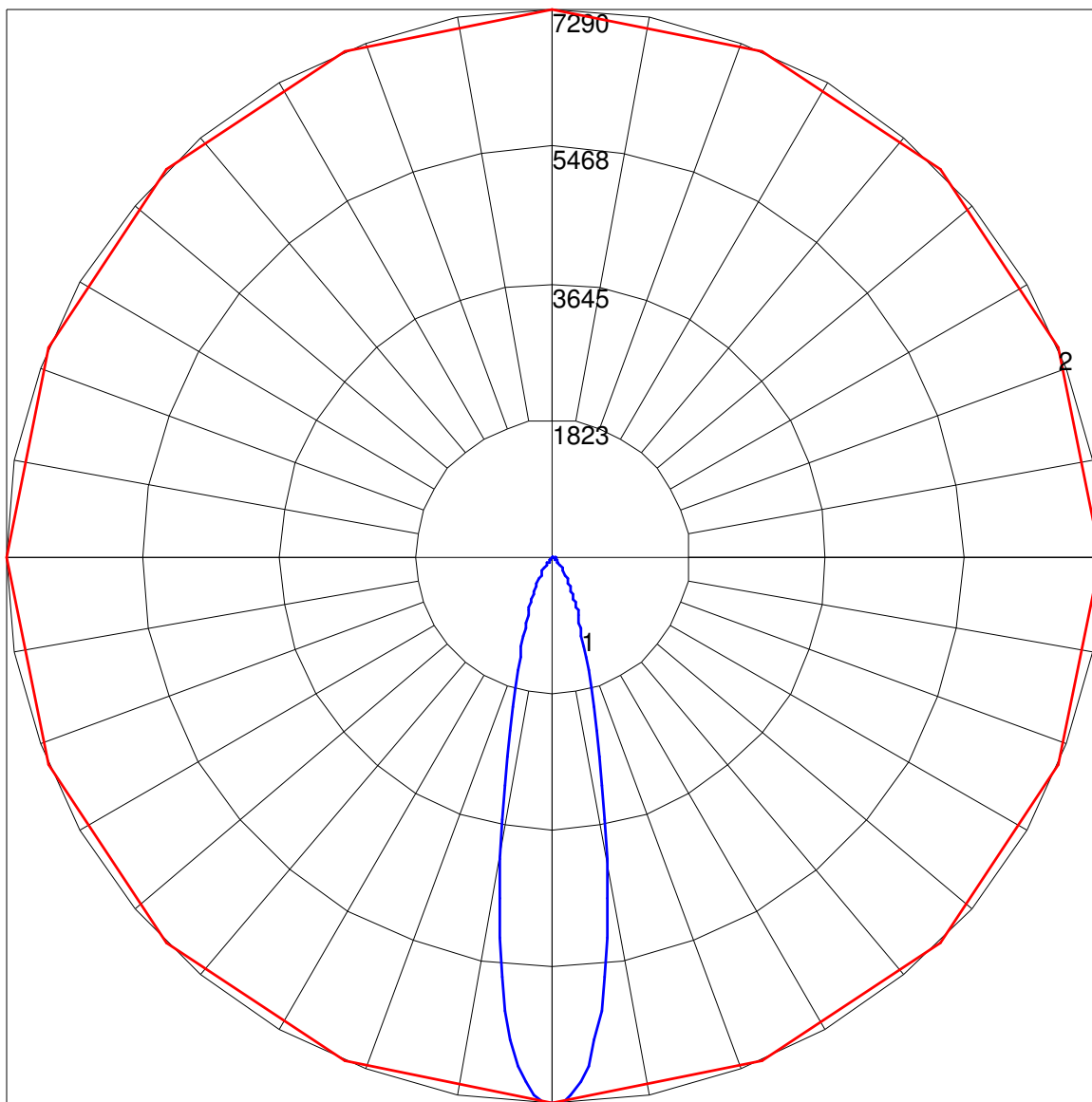
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	813.1	50.0
Downward House Side	813.1	50.0
Downward Total	1626.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	1626.2	100.0

POLAR GRAPH



Maximum Candela = 7290.286 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

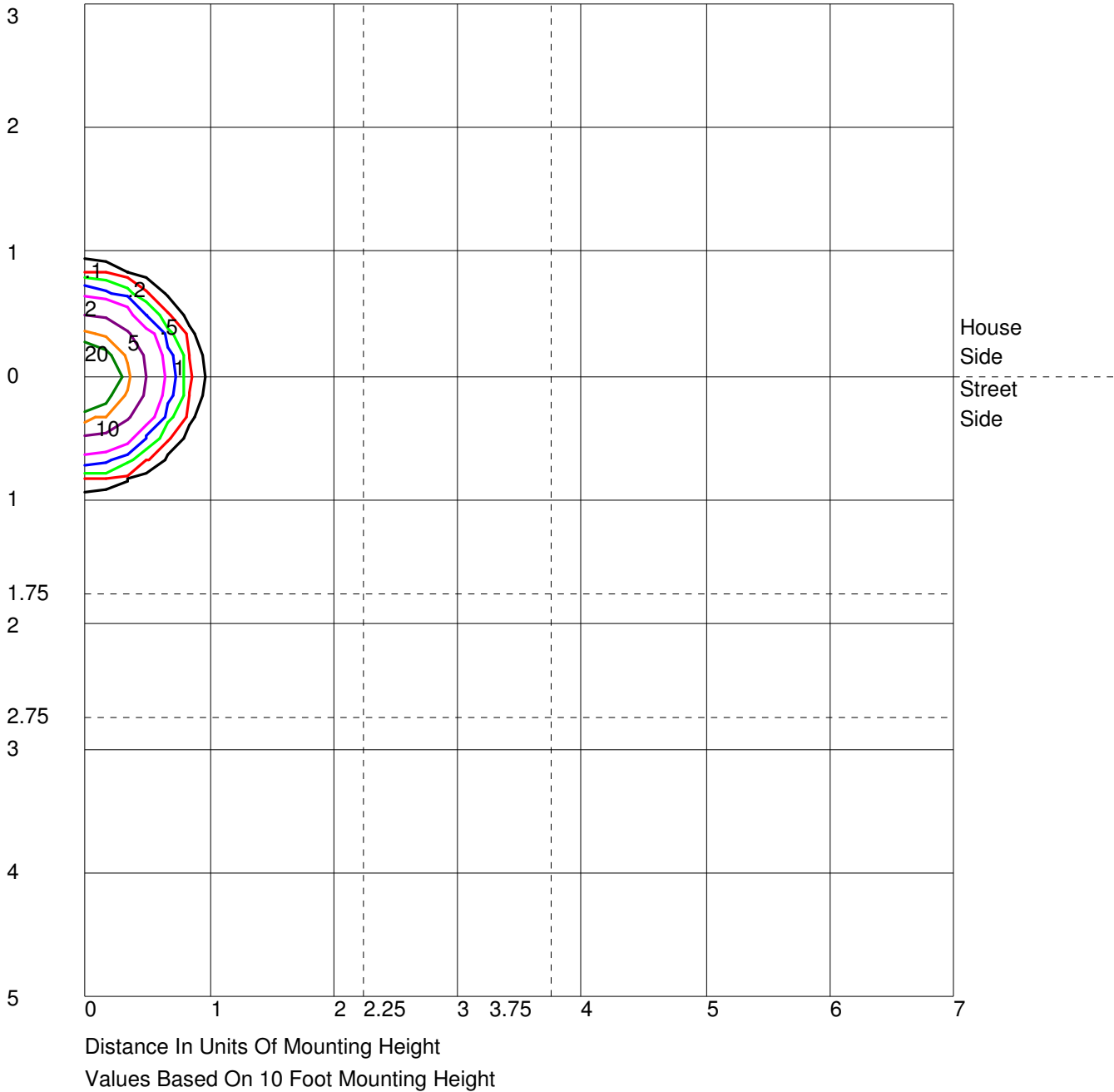


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