

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-930-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-L20-930-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	2192
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9824.136
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	9824.136
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	.447 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-930-XXX-DIM-UNV-S-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	994.9	N.A.	45.4
FM - Front-Medium (30-60)	97.8	N.A.	4.5
FH - Front-High (60-80)	2.9	N.A.	0.1
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	994.9	N.A.	45.4
BM - Back-Medium (30-60)	97.8	N.A.	4.5
BH - Back-High (60-80)	2.9	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	2191.7	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	9824.136	9824.136	9824.136	9824.136	9824.136
1	9806.167	9801.974	9802.817	9799.136	9802.904
2	9682.945	9681.252	9674.739	9671.669	9682.188
3	9469.144	9461.644	9455.873	9449.951	9473.539
4	9149.334	9146.877	9137.028	9134.096	9163.123
5	8721.553	8713.836	8711.062	8707.374	8743.988
6	8184.555	8181.709	8184.288	8189.843	8220.197
7	7553.420	7556.353	7574.451	7590.835	7603.032
8	6851.117	6863.877	6898.863	6928.511	6920.153
9	6125.370	6144.456	6199.132	6238.355	6206.575
10	5418.687	5441.836	5509.913	5557.904	5504.012
11	4746.039	4773.143	4852.200	4900.868	4834.001
12	4125.034	4161.454	4238.523	4296.053	4219.935
13	3584.917	3615.602	3696.741	3757.852	3681.770
14	3117.322	3142.885	3219.067	3278.089	3207.706
15	2714.513	2739.499	2815.134	2869.148	2799.024
16	2377.684	2404.234	2459.242	2507.406	2446.410
17	2109.243	2111.390	2165.923	2204.972	2157.998
18	1859.433	1876.177	1918.296	1949.882	1914.103
19	1661.772	1671.073	1716.592	1744.612	1718.365
20	1496.610	1509.039	1540.235	1563.758	1537.627
21	1362.660	1370.146	1396.688	1416.090	1391.191
22	1248.940	1256.088	1276.823	1289.784	1268.681
23	1153.874	1157.613	1173.579	1184.393	1165.394
24	1071.063	1073.059	1085.717	1091.712	1075.328
25	995.860	998.331	1006.357	1008.158	994.376
26	928.049	927.869	931.075	929.857	917.840
27	858.055	854.525	855.778	853.509	842.536
28	783.313	779.192	777.931	776.605	768.630
29	704.637	700.783	699.371	701.669	695.552
30	620.969	619.600	618.483	623.231	619.766
31	536.464	536.796	537.098	544.771	542.704
32	454.849	456.405	457.133	467.198	468.106
33	375.165	378.162	380.799	390.979	395.533
34	301.302	306.439	309.861	320.719	327.823
35	238.224	242.598	244.039	254.298	264.378
36	179.074	185.335	189.823	196.603	207.734
37	132.884	140.896	142.762	148.756	160.975
38	97.783	103.352	104.887	111.962	121.263
39	74.202	75.081	77.710	82.350	87.883
40	53.632	55.966	59.590	62.955	65.988
41	40.469	42.407	44.871	47.667	50.765
42	31.499	33.120	35.591	37.753	40.210
43	25.498	26.643	28.941	30.843	32.630
44	21.333	22.162	24.150	25.843	26.614
45	18.307	18.934	20.663	21.967	22.313
46	16.110	16.571	18.077	19.020	19.237
47	14.417	14.799	16.081	16.737	16.852
48	13.077	13.444	14.496	14.964	15.029
49	12.025	12.327	13.271	13.567	13.574
50	11.167	11.434	12.248	12.443	12.407
51	10.411	10.663	11.391	11.528	11.456
52	9.719	9.935	10.577	10.620	10.468

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-930-XXX-DIM-UNV-S-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	9.085	9.280	9.834	9.791	9.589
54	8.530	8.718	9.179	9.056	8.826
55	8.048	8.206	8.595	8.422	8.141
56	7.615	7.731	8.077	7.875	7.536
57	7.205	7.298	7.572	7.378	7.025
58	6.816	6.895	7.125	6.931	6.600
59	6.455	6.513	6.686	6.513	6.203
60	6.095	6.146	6.283	6.110	5.807
61	5.735	5.778	5.901	5.735	5.447
62	5.375	5.411	5.519	5.353	5.072
63	5.014	5.058	5.144	4.978	4.712
64	4.661	4.697	4.784	4.611	4.352
65	4.316	4.359	4.424	4.258	4.013
66	3.977	4.013	4.078	3.919	3.667
67	3.653	3.696	3.754	3.610	3.357
68	3.357	3.386	3.451	3.293	3.055
69	3.069	3.105	3.163	3.012	2.767
70	2.795	2.831	2.896	2.731	2.486
71	2.536	2.565	2.630	2.464	2.219
72	2.284	2.313	2.363	2.205	1.967
73	2.032	2.061	2.104	1.938	1.729
74	1.772	1.801	1.830	1.686	1.470
75	1.506	1.527	1.535	1.419	1.203
76	1.246	1.261	1.225	1.153	0.958
77	1.016	1.023	0.958	0.893	0.735
78	0.785	0.764	0.663	0.612	0.540
79	0.490	0.504	0.483	0.476	0.454
80	0.447	0.447	0.447	0.439	0.425
81	0.418	0.418	0.425	0.418	0.396
82	0.396	0.396	0.403	0.396	0.375
83	0.367	0.367	0.375	0.375	0.353
84	0.339	0.339	0.339	0.331	0.324
85	0.295	0.303	0.310	0.303	0.288
86	0.259	0.259	0.259	0.259	0.252
87	0.216	0.216	0.216	0.216	0.209
88	0.166	0.166	0.173	0.166	0.159
89	0.122	0.115	0.122	0.115	0.115
90	0.101	0.086	0.094	0.086	0.086
91	0.094	0.086	0.086	0.086	0.079
92	0.086	0.086	0.086	0.086	0.079
93	0.094	0.086	0.086	0.086	0.079
94	0.094	0.086	0.086	0.086	0.079
95	0.094	0.086	0.086	0.086	0.079
96	0.094	0.094	0.086	0.086	0.079
97	0.094	0.094	0.086	0.086	0.086
98	0.094	0.094	0.086	0.086	0.079
99	0.094	0.094	0.086	0.094	0.079
100	0.094	0.094	0.086	0.094	0.086
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

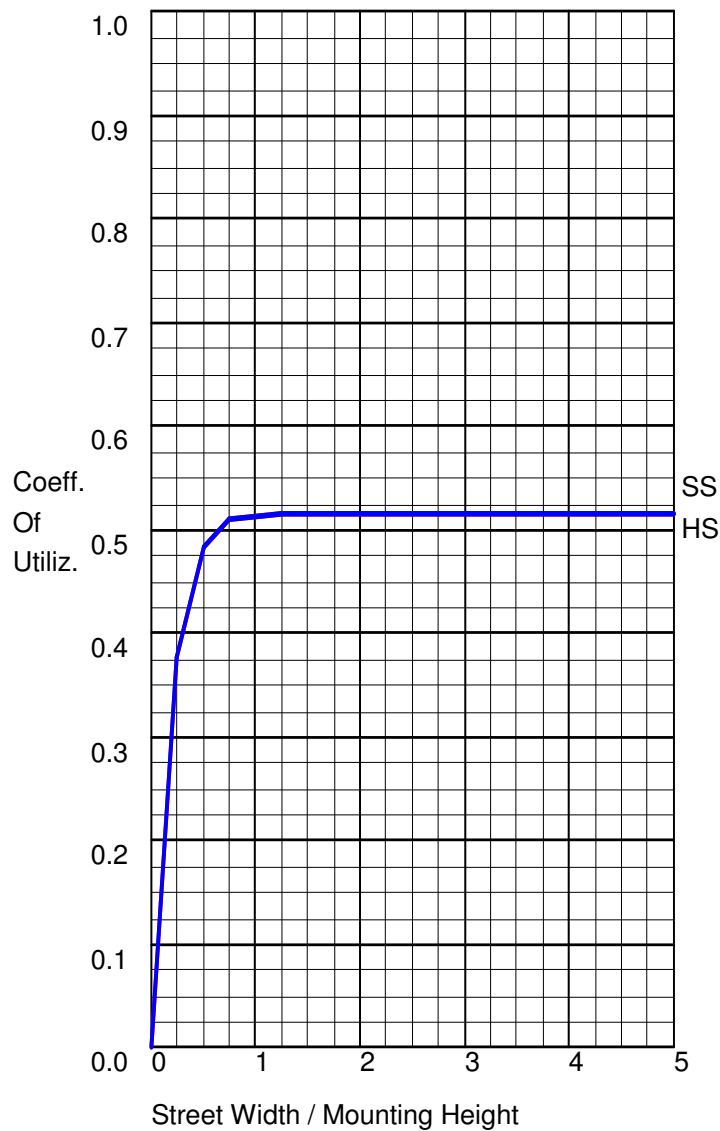
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-930-XXX-DIM-UNV-S-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L20-930-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

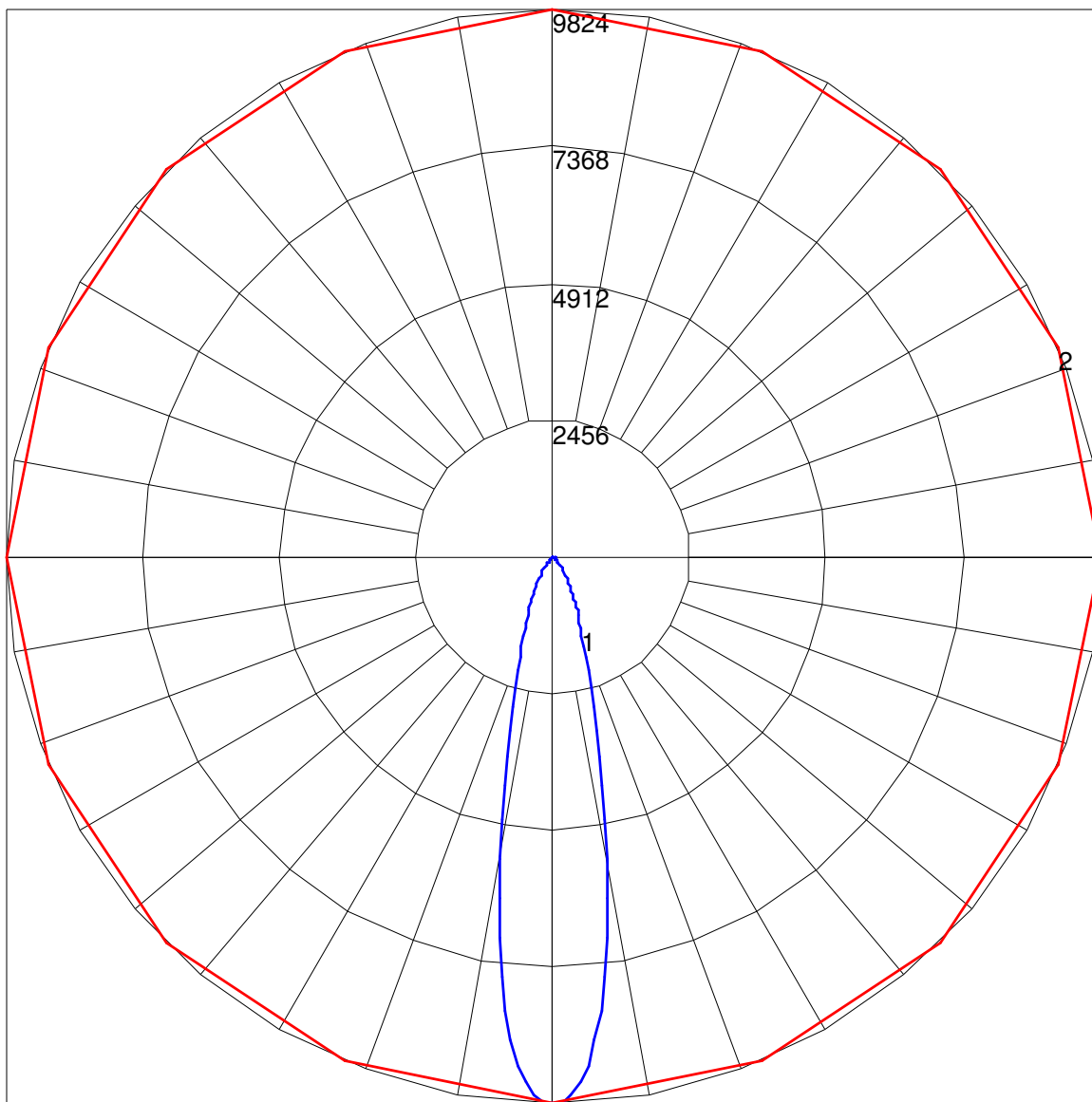
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1095.7	50.0
Downward House Side	1095.7	50.0
Downward Total	2191.4	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2191.6	100.0

POLAR GRAPH



Maximum Candela = 9824.136 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

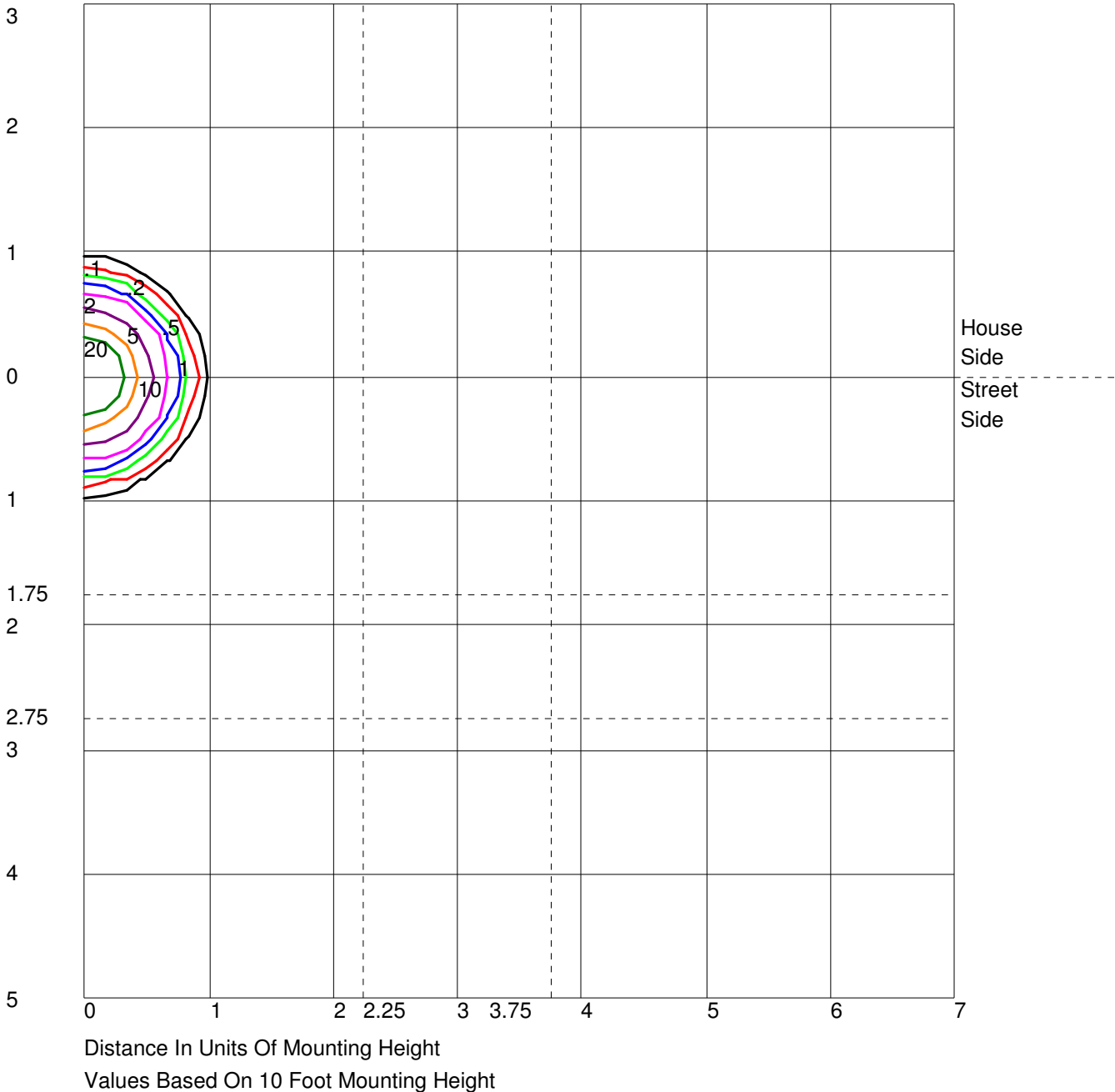


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