

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-840-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-L25-840-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	2725
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7728.165
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	7728.165
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.249 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.246 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-840-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1197.7	N.A.	44.0
FM - Front-Medium (30-60)	156.4	N.A.	5.7
FH - Front-High (60-80)	7.8	N.A.	0.3
FVH - Front-Very High (80-90)	0.4	N.A.	0.0
BL - Back-Low (0-30)	1197.7	N.A.	44.0
BM - Back-Medium (30-60)	156.4	N.A.	5.7
BH - Back-High (60-80)	7.8	N.A.	0.3
BVH - Back-Very High (80-90)	0.4	N.A.	0.0
UL - Uplight-Low (90-100)	0.2	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	2724.8	N.A.	100.0
BUG Rating	B3-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-840-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	7728.165	7728.165	7728.165	7728.165	7728.165
1	7718.993	7718.642	7717.147	7716.769	7719.583
2	7681.075	7678.824	7677.338	7664.973	7662.398
3	7610.280	7598.772	7600.710	7593.466	7597.148
4	7497.294	7490.964	7484.541	7476.716	7483.185
5	7340.301	7349.935	7330.851	7318.828	7334.709
6	7145.824	7152.533	7138.506	7133.136	7144.394
7	6927.826	6918.570	6909.019	6910.782	6919.558
8	6662.488	6649.007	6645.389	6643.507	6656.546
9	6353.467	6345.632	6335.888	6335.869	6360.111
10	6007.607	5998.749	5992.354	5991.865	6022.898
11	5619.955	5612.536	5616.661	5623.674	5651.551
12	5201.943	5197.634	5207.766	5219.947	5256.415
13	4764.267	4768.346	4784.735	4801.474	4835.119
14	4321.848	4329.618	4357.984	4378.968	4404.658
15	3888.232	3902.092	3938.911	3962.839	3987.339
16	3474.345	3495.800	3537.583	3570.139	3582.827
17	3101.328	3123.300	3172.484	3198.276	3205.926
18	2767.714	2776.776	2831.303	2857.639	2865.760
19	2451.725	2478.486	2534.711	2556.323	2564.130
20	2186.997	2214.662	2264.280	2295.793	2302.982
21	1963.268	1986.984	2035.956	2060.437	2057.983
22	1775.556	1799.474	1841.941	1861.993	1858.080
23	1622.134	1639.750	1678.285	1696.030	1689.331
24	1490.822	1505.605	1542.756	1555.499	1548.514
25	1376.313	1391.936	1425.581	1435.621	1426.550
26	1273.580	1289.119	1319.082	1327.544	1319.645
27	1178.247	1189.773	1218.167	1225.392	1218.573
28	1081.936	1090.555	1115.489	1121.671	1117.076
29	984.435	991.817	1009.368	1017.101	1015.274
30	882.892	885.752	901.163	909.588	907.309
31	775.673	777.390	788.602	796.150	796.270
32	670.412	669.415	676.548	684.364	684.539
33	563.332	561.551	567.715	574.580	573.805
34	460.690	459.971	464.031	469.983	470.158
35	370.987	365.902	369.879	372.555	371.134
36	285.020	283.839	285.934	287.429	284.670
37	214.778	215.239	213.043	212.923	215.968
38	159.309	161.681	156.523	157.750	158.350
39	116.806	115.643	116.428	114.287	113.835
40	89.418	85.330	85.477	85.348	85.330
41	65.084	65.149	66.302	66.754	67.520
42	51.943	52.525	54.315	55.330	56.594
43	44.700	45.244	47.200	48.557	49.572
44	40.962	41.368	43.269	44.690	45.336
45	39.301	39.578	41.442	42.577	43.103
46	38.757	39.108	40.732	41.608	42.088
47	38.932	39.274	40.630	41.331	41.811
48	39.403	39.634	40.787	41.295	41.811
49	39.680	39.929	40.898	41.248	41.701
50	39.707	39.901	40.769	41.036	41.378
51	39.274	39.421	40.233	40.436	40.676
52	38.093	38.277	38.988	39.089	39.237

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-840-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	36.321	36.478	37.151	37.142	37.234
54	34.060	34.244	34.817	34.724	34.835
55	31.532	31.642	32.159	32.021	32.085
56	28.791	28.846	29.206	29.114	29.132
57	25.875	25.939	26.161	26.106	26.069
58	23.088	23.134	23.245	23.199	23.162
59	20.504	20.486	20.513	20.458	20.440
60	18.151	18.114	18.068	18.059	18.050
61	16.121	16.056	16.001	15.964	15.983
62	14.386	14.294	14.248	14.211	14.229
63	12.947	12.873	12.781	12.753	12.790
64	11.729	11.673	11.599	11.553	11.618
65	10.760	10.704	10.640	10.575	10.649
66	9.892	9.865	9.791	9.745	9.828
67	9.172	9.145	9.062	9.034	9.117
68	8.499	8.480	8.416	8.370	8.471
69	7.890	7.881	7.798	7.761	7.853
70	7.327	7.308	7.225	7.170	7.244
71	6.764	6.764	6.653	6.589	6.635
72	6.229	6.220	6.100	6.017	6.072
73	5.684	5.675	5.537	5.435	5.481
74	5.112	5.103	4.955	4.835	4.882
75	4.512	4.466	4.337	4.199	4.236
76	3.820	3.765	3.608	3.497	3.534
77	3.036	2.999	2.796	2.713	2.713
78	2.122	2.104	1.901	1.790	1.809
79	1.375	1.393	1.338	1.347	1.347
80	1.246	1.246	1.227	1.227	1.227
81	1.163	1.163	1.163	1.172	1.163
82	1.107	1.098	1.098	1.107	1.107
83	1.034	1.024	1.024	1.024	1.034
84	0.950	0.941	0.941	0.950	0.950
85	0.858	0.858	0.858	0.858	0.858
86	0.757	0.747	0.747	0.747	0.757
87	0.627	0.627	0.627	0.627	0.627
88	0.489	0.489	0.489	0.480	0.480
89	0.341	0.332	0.332	0.332	0.332
90	0.249	0.231	0.231	0.221	0.212
91	0.231	0.221	0.212	0.203	0.203
92	0.231	0.221	0.212	0.212	0.203
93	0.231	0.221	0.221	0.212	0.212
94	0.231	0.221	0.221	0.212	0.212
95	0.231	0.221	0.221	0.212	0.221
96	0.240	0.221	0.221	0.212	0.212
97	0.240	0.231	0.221	0.221	0.221
98	0.240	0.231	0.231	0.231	0.231
99	0.258	0.231	0.231	0.231	0.231
100	0.258	0.240	0.231	0.231	0.231
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

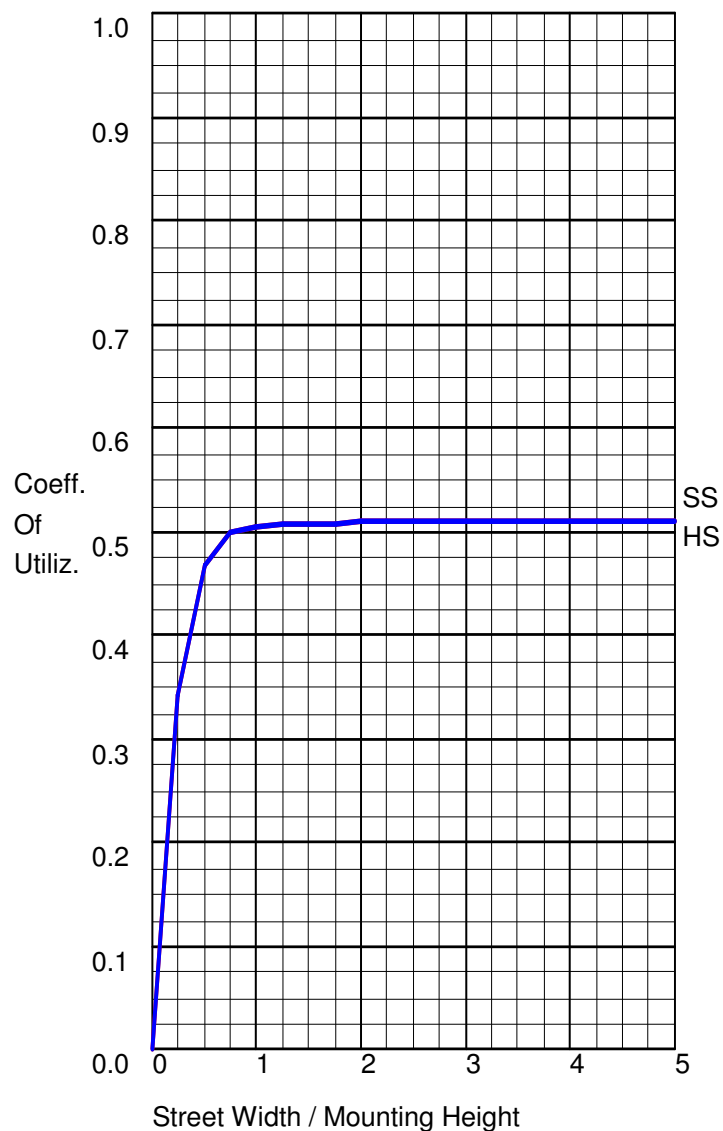
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-840-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L25-840-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

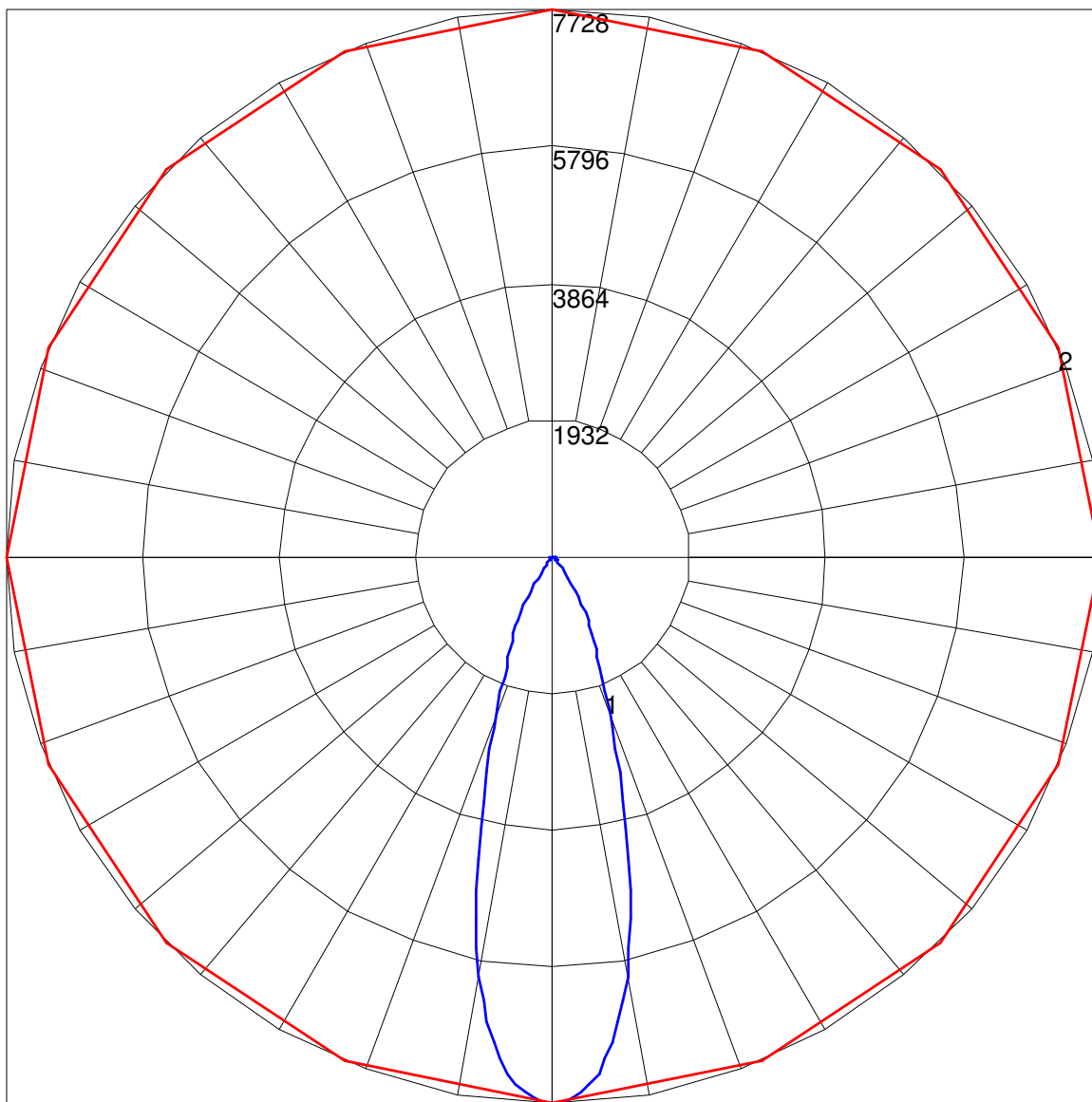
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1362.3	50.0
Downward House Side	1362.3	50.0
Downward Total	2724.6	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2724.8	100.0

POLAR GRAPH



Maximum Candela = 7728.165 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

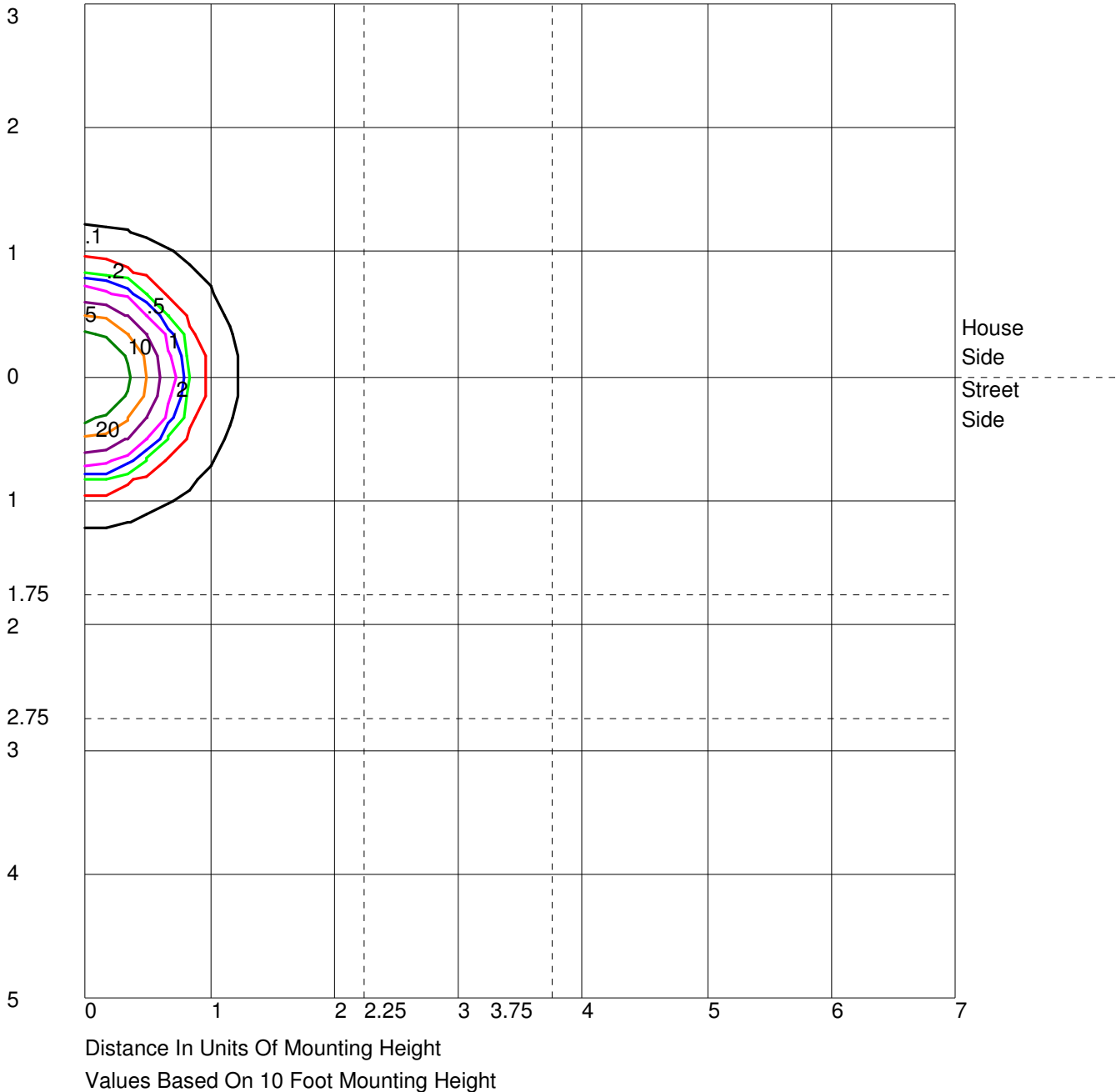


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