

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-827-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-L25-827-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	2644
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7498.615
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	7498.615
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.242 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.209 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1162.1	N.A.	44.0
FM - Front-Medium (30-60)	151.8	N.A.	5.7
FH - Front-High (60-80)	7.5	N.A.	0.3
FVH - Front-Very High (80-90)	0.4	N.A.	0.0
BL - Back-Low (0-30)	1162.1	N.A.	44.0
BM - Back-Medium (30-60)	151.8	N.A.	5.7
BH - Back-High (60-80)	7.5	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	2643.8	N.A.	100.0
BUG Rating	B3-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-827-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	7498.615	7498.615	7498.615	7498.615	7498.615
1	7489.715	7489.375	7487.925	7487.558	7490.289
2	7452.925	7450.740	7449.298	7437.300	7434.802
3	7384.231	7373.066	7374.946	7367.918	7371.490
4	7274.602	7268.460	7262.228	7254.635	7260.912
5	7122.272	7131.620	7113.103	7101.436	7116.846
6	6933.572	6940.081	6926.471	6921.260	6932.184
7	6722.049	6713.068	6703.801	6705.511	6714.026
8	6464.593	6451.511	6448.001	6446.175	6458.826
9	6164.750	6157.148	6147.693	6147.675	6171.196
10	5829.163	5820.568	5814.363	5813.888	5844.000
11	5453.026	5445.827	5449.829	5456.634	5483.683
12	5047.430	5043.249	5053.080	5064.899	5100.284
13	4622.754	4626.712	4642.614	4658.856	4691.501
14	4193.476	4201.015	4228.539	4248.900	4273.827
15	3772.740	3786.188	3821.914	3845.131	3868.903
16	3371.146	3391.964	3432.506	3464.095	3476.407
17	3009.209	3030.528	3078.252	3103.277	3110.700
18	2685.505	2694.297	2747.205	2772.759	2780.638
19	2378.902	2404.868	2459.423	2480.392	2487.967
20	2122.037	2148.880	2197.024	2227.601	2234.576
21	1904.953	1927.964	1975.482	1999.236	1996.855
22	1722.816	1746.024	1787.230	1806.686	1802.890
23	1573.951	1591.044	1628.435	1645.653	1639.153
24	1446.540	1460.884	1496.931	1509.296	1502.518
25	1335.433	1350.591	1383.237	1392.978	1384.177
26	1235.751	1250.829	1279.902	1288.112	1280.448
27	1143.250	1154.433	1181.983	1188.994	1182.377
28	1049.799	1058.162	1082.355	1088.354	1083.895
29	955.194	962.357	979.387	986.890	985.118
30	856.667	859.443	874.396	882.570	880.359
31	752.634	754.299	765.178	772.502	772.618
32	650.498	649.531	656.453	664.036	664.206
33	546.599	544.871	550.852	557.514	556.762
34	447.007	446.308	450.248	456.023	456.193
35	359.967	355.034	358.893	361.489	360.111
36	276.554	275.408	277.441	278.891	276.214
37	208.398	208.846	206.715	206.599	209.553
38	154.577	156.879	151.873	153.064	153.646
39	113.336	112.208	112.969	110.892	110.453
40	86.762	82.795	82.939	82.813	82.795
41	63.151	63.213	64.333	64.771	65.515
42	50.401	50.965	52.702	53.687	54.913
43	43.372	43.900	45.798	47.115	48.100
44	39.746	40.140	41.984	43.363	43.990
45	38.134	38.403	40.211	41.313	41.823
46	37.606	37.946	39.522	40.372	40.838
47	37.776	38.107	39.423	40.104	40.569
48	38.232	38.456	39.576	40.068	40.569
49	38.501	38.743	39.683	40.023	40.462
50	38.528	38.716	39.558	39.817	40.149
51	38.107	38.250	39.038	39.235	39.468
52	36.961	37.140	37.830	37.928	38.071

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

53	35.242	35.394	36.048	36.039	36.128
54	33.048	33.227	33.782	33.693	33.800
55	30.595	30.702	31.204	31.069	31.132
56	27.936	27.989	28.339	28.249	28.267
57	25.106	25.169	25.384	25.330	25.294
58	22.402	22.447	22.554	22.510	22.474
59	19.895	19.877	19.904	19.850	19.833
60	17.612	17.576	17.531	17.522	17.514
61	15.642	15.580	15.526	15.490	15.508
62	13.959	13.869	13.825	13.789	13.807
63	12.562	12.490	12.401	12.374	12.410
64	11.380	11.326	11.255	11.210	11.273
65	10.440	10.386	10.324	10.261	10.333
66	9.598	9.572	9.500	9.455	9.536
67	8.900	8.873	8.793	8.766	8.846
68	8.246	8.228	8.166	8.121	8.220
69	7.655	7.646	7.566	7.530	7.620
70	7.109	7.091	7.011	6.957	7.029
71	6.563	6.563	6.456	6.393	6.438
72	6.044	6.035	5.918	5.838	5.892
73	5.516	5.507	5.372	5.274	5.319
74	4.960	4.951	4.808	4.692	4.737
75	4.378	4.334	4.208	4.074	4.110
76	3.707	3.653	3.501	3.393	3.429
77	2.946	2.910	2.713	2.632	2.632
78	2.059	2.041	1.844	1.737	1.755
79	1.334	1.352	1.298	1.307	1.307
80	1.209	1.209	1.191	1.191	1.191
81	1.128	1.128	1.128	1.137	1.128
82	1.074	1.065	1.065	1.074	1.074
83	1.003	0.994	0.994	0.994	1.003
84	0.922	0.913	0.913	0.922	0.922
85	0.833	0.833	0.833	0.833	0.833
86	0.734	0.725	0.725	0.725	0.734
87	0.609	0.609	0.609	0.609	0.609
88	0.475	0.475	0.475	0.466	0.466
89	0.331	0.322	0.322	0.322	0.322
90	0.242	0.224	0.224	0.215	0.206
91	0.224	0.215	0.206	0.197	0.197
92	0.224	0.215	0.206	0.206	0.197
93	0.224	0.215	0.215	0.206	0.206
94	0.224	0.215	0.215	0.206	0.206
95	0.224	0.215	0.215	0.206	0.215
96	0.233	0.215	0.215	0.206	0.206
97	0.233	0.224	0.215	0.215	0.215
98	0.233	0.224	0.224	0.224	0.224
99	0.251	0.224	0.224	0.224	0.224
100	0.251	0.233	0.224	0.224	0.224
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

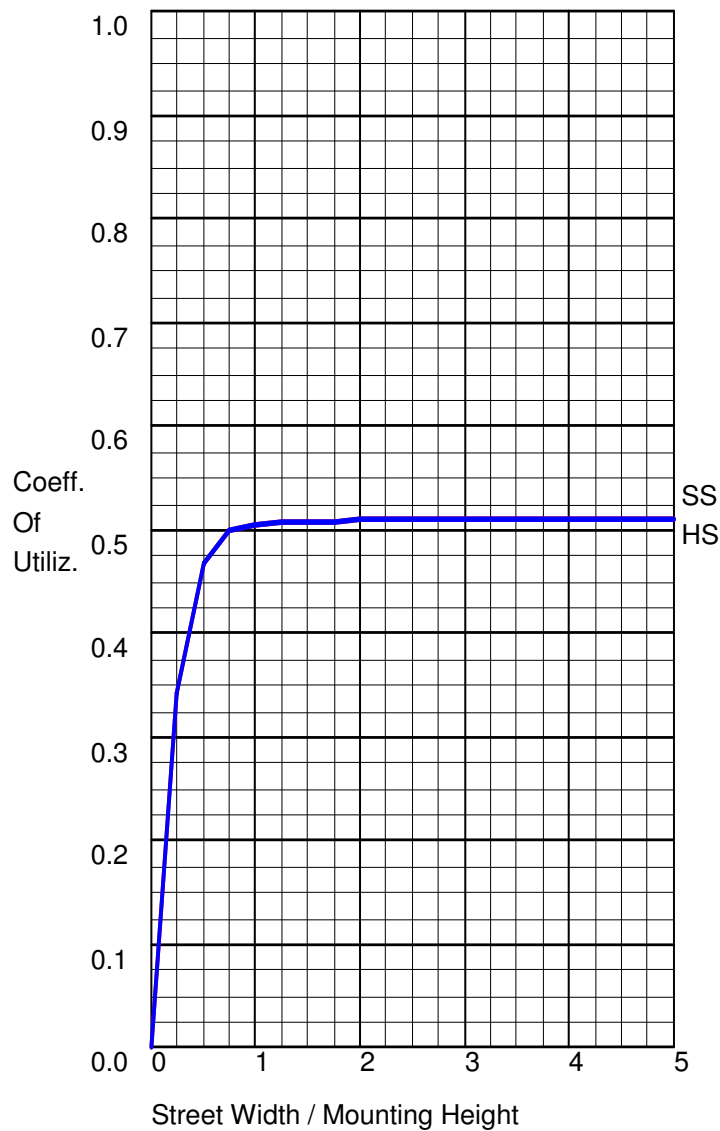
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-827-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L25-827-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

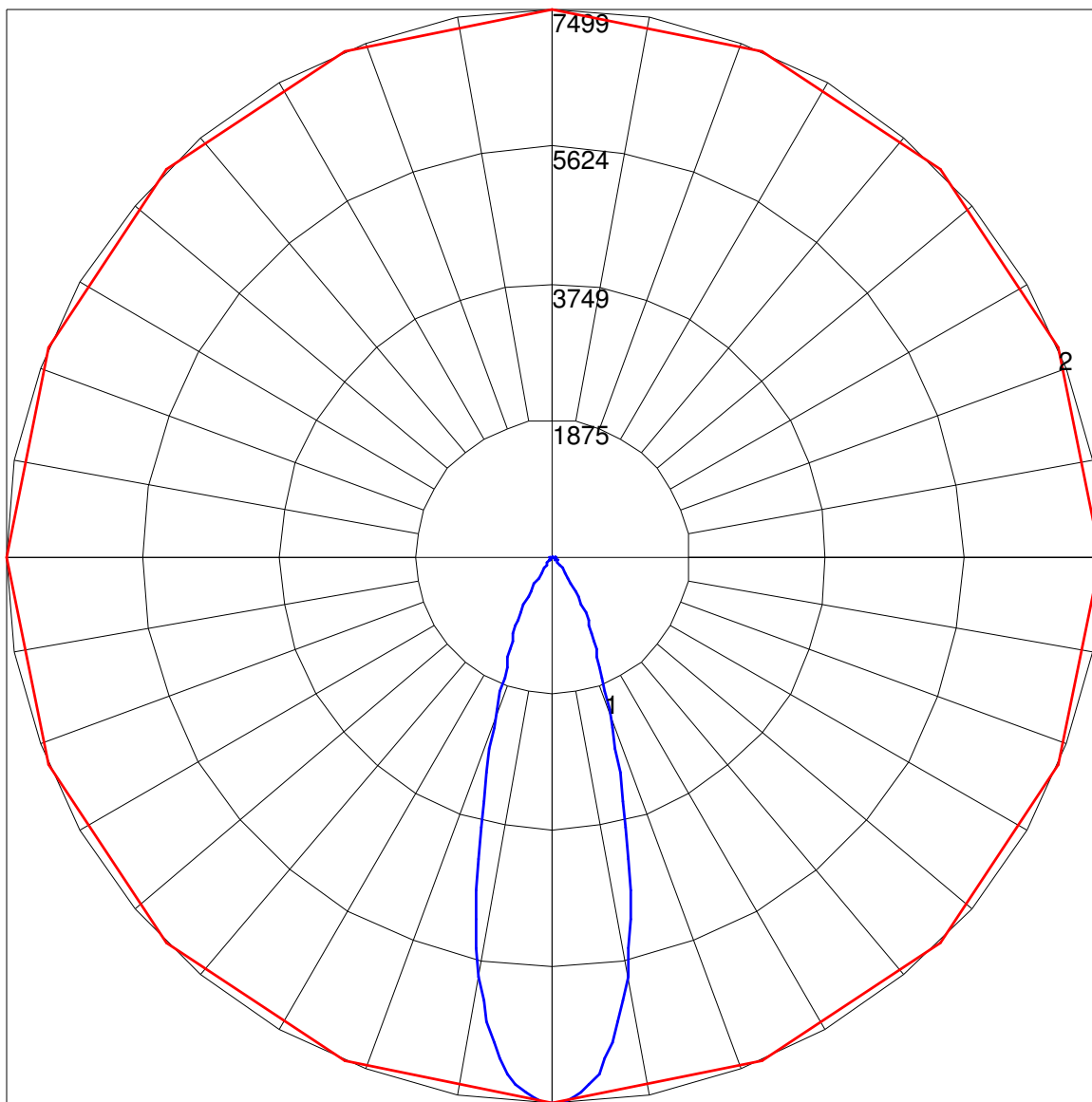
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1321.9	50.0
Downward House Side	1321.9	50.0
Downward Total	2643.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2644.0	100.0

POLAR GRAPH



Maximum Candela = 7498.615 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

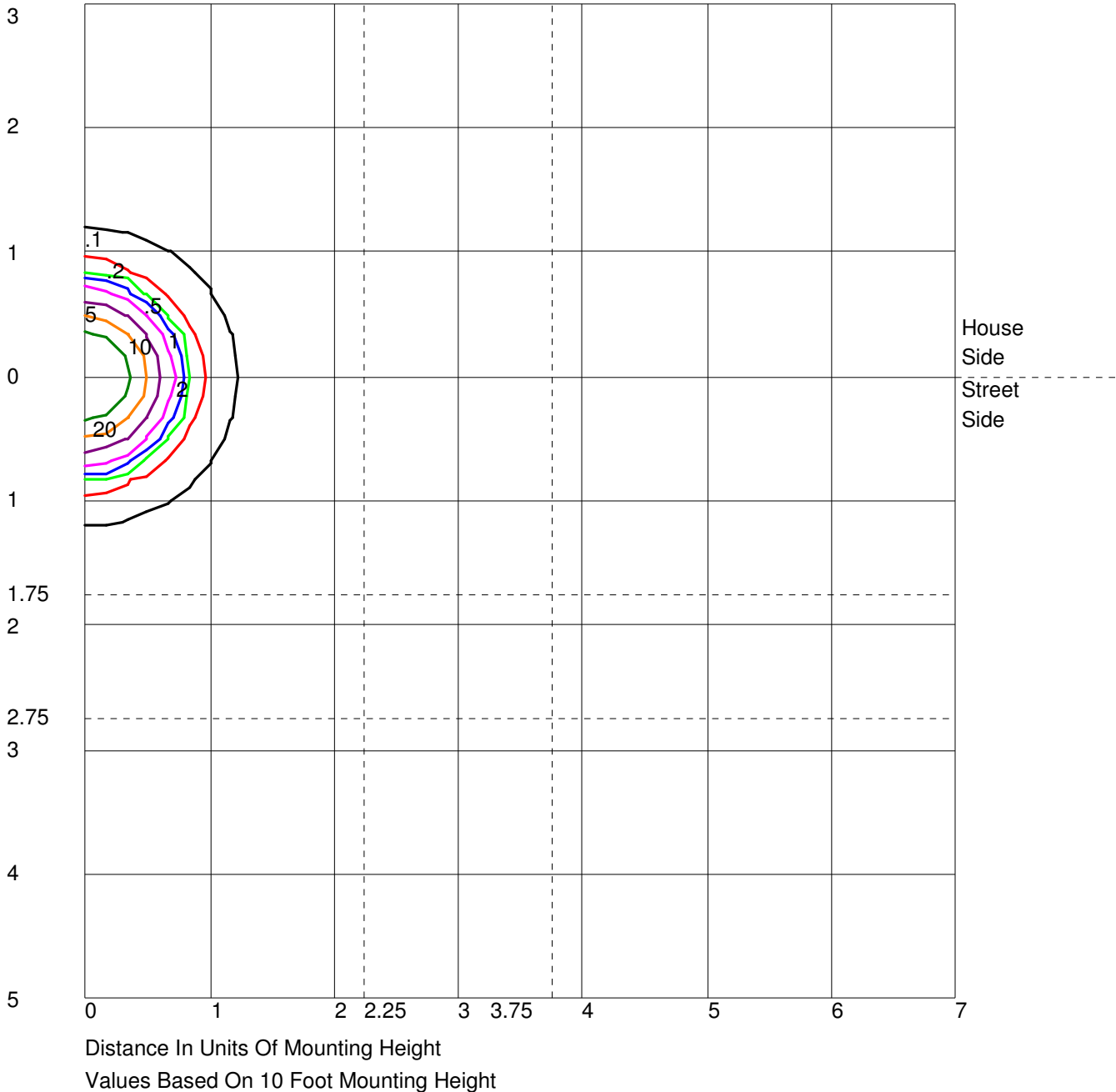


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