

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-840-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-L10-840-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	1173
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5256.188
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	5256.188
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.054 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.239 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-840-XXX-DIM-UNV-S-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	532.3	N.A.	45.4
FM - Front-Medium (30-60)	52.3	N.A.	4.5
FH - Front-High (60-80)	1.6	N.A.	0.1
FVH - Front-Very High (80-90)	0.1	N.A.	0.0
BL - Back-Low (0-30)	532.3	N.A.	45.4
BM - Back-Medium (30-60)	52.3	N.A.	4.5
BH - Back-High (60-80)	1.6	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	1172.7	N.A.	100.0
BUG Rating	B2-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-840-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	5256.188	5256.188	5256.188	5256.188	5256.188
1	5246.574	5244.331	5244.782	5242.812	5244.828
2	5180.647	5179.741	5176.256	5174.614	5180.242
3	5066.258	5062.245	5059.157	5055.989	5068.609
4	4895.150	4893.835	4888.566	4886.997	4902.528
5	4666.275	4662.147	4660.663	4658.689	4678.279
6	4378.966	4377.444	4378.824	4381.796	4398.036
7	4041.292	4042.860	4052.544	4061.309	4067.835
8	3665.540	3672.367	3691.085	3706.947	3702.476
9	3277.245	3287.456	3316.710	3337.695	3320.691
10	2899.149	2911.535	2947.958	2973.634	2944.801
11	2539.264	2553.765	2596.063	2622.102	2586.326
12	2207.009	2226.494	2267.728	2298.509	2257.783
13	1918.031	1934.448	1977.860	2010.556	1969.850
14	1667.855	1681.531	1722.291	1753.869	1716.212
15	1452.340	1465.709	1506.176	1535.075	1497.556
16	1272.128	1286.332	1315.763	1341.532	1308.898
17	1128.504	1129.653	1158.829	1179.722	1154.589
18	994.849	1003.807	1026.342	1043.241	1024.099
19	889.094	894.071	918.425	933.416	919.373
20	800.728	807.378	824.069	836.655	822.673
21	729.061	733.066	747.267	757.648	744.326
22	668.218	672.042	683.136	690.071	678.780
23	617.355	619.356	627.898	633.684	623.519
24	573.049	574.116	580.889	584.096	575.331
25	532.813	534.135	538.429	539.393	532.019
26	496.532	496.436	498.151	497.500	491.070
27	459.083	457.195	457.865	456.651	450.780
28	419.094	416.889	416.215	415.506	411.238
29	377.001	374.938	374.183	375.413	372.140
30	332.236	331.503	330.906	333.446	331.592
31	287.023	287.201	287.363	291.468	290.362
32	243.357	244.190	244.579	249.964	250.450
33	200.724	202.327	203.738	209.185	211.621
34	161.205	163.953	165.784	171.593	175.394
35	127.457	129.797	130.568	136.057	141.449
36	95.809	99.159	101.561	105.188	111.144
37	71.097	75.383	76.382	79.589	86.126
38	52.316	55.296	56.117	59.903	64.879
39	39.700	40.170	41.577	44.060	47.020
40	28.695	29.944	31.883	33.683	35.306
41	21.652	22.689	24.007	25.503	27.160
42	16.853	17.720	19.042	20.199	21.513
43	13.642	14.255	15.484	16.502	17.458
44	11.414	11.857	12.921	13.827	14.239
45	9.795	10.130	11.055	11.753	11.938
46	8.619	8.866	9.672	10.176	10.292
47	7.713	7.918	8.604	8.955	9.016
48	6.996	7.193	7.756	8.006	8.041
49	6.434	6.595	7.100	7.258	7.262
50	5.975	6.117	6.553	6.657	6.638
51	5.570	5.705	6.094	6.168	6.129
52	5.200	5.316	5.659	5.682	5.601

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-840-XXX-DIM-UNV-S-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	4.861	4.965	5.262	5.239	5.131
54	4.564	4.664	4.911	4.845	4.722
55	4.306	4.391	4.599	4.506	4.356
56	4.074	4.136	4.321	4.213	4.032
57	3.855	3.905	4.051	3.947	3.758
58	3.647	3.689	3.812	3.708	3.531
59	3.454	3.485	3.577	3.485	3.319
60	3.261	3.288	3.361	3.269	3.107
61	3.068	3.091	3.157	3.068	2.914
62	2.876	2.895	2.953	2.864	2.714
63	2.683	2.706	2.752	2.664	2.521
64	2.494	2.513	2.560	2.467	2.328
65	2.309	2.332	2.367	2.278	2.147
66	2.128	2.147	2.182	2.097	1.962
67	1.954	1.977	2.008	1.931	1.796
68	1.796	1.812	1.846	1.762	1.634
69	1.642	1.661	1.692	1.611	1.480
70	1.496	1.515	1.550	1.461	1.330
71	1.357	1.372	1.407	1.318	1.187
72	1.222	1.237	1.264	1.180	1.052
73	1.087	1.102	1.126	1.037	0.925
74	0.948	0.964	0.979	0.902	0.786
75	0.806	0.817	0.821	0.759	0.644
76	0.667	0.675	0.655	0.617	0.513
77	0.544	0.547	0.513	0.478	0.393
78	0.420	0.409	0.355	0.328	0.289
79	0.262	0.270	0.258	0.254	0.243
80	0.239	0.239	0.239	0.235	0.227
81	0.224	0.224	0.227	0.224	0.212
82	0.212	0.212	0.216	0.212	0.200
83	0.197	0.197	0.200	0.200	0.189
84	0.181	0.181	0.181	0.177	0.173
85	0.158	0.162	0.166	0.162	0.154
86	0.139	0.139	0.139	0.139	0.135
87	0.116	0.116	0.116	0.116	0.112
88	0.089	0.089	0.093	0.089	0.085
89	0.066	0.062	0.066	0.062	0.062
90	0.054	0.046	0.050	0.046	0.046
91	0.050	0.046	0.046	0.046	0.042
92	0.046	0.046	0.046	0.046	0.042
93	0.050	0.046	0.046	0.046	0.042
94	0.050	0.046	0.046	0.046	0.042
95	0.050	0.046	0.046	0.046	0.042
96	0.050	0.050	0.046	0.046	0.042
97	0.050	0.050	0.046	0.046	0.046
98	0.050	0.050	0.046	0.046	0.042
99	0.050	0.050	0.046	0.050	0.042
100	0.050	0.050	0.046	0.050	0.046
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

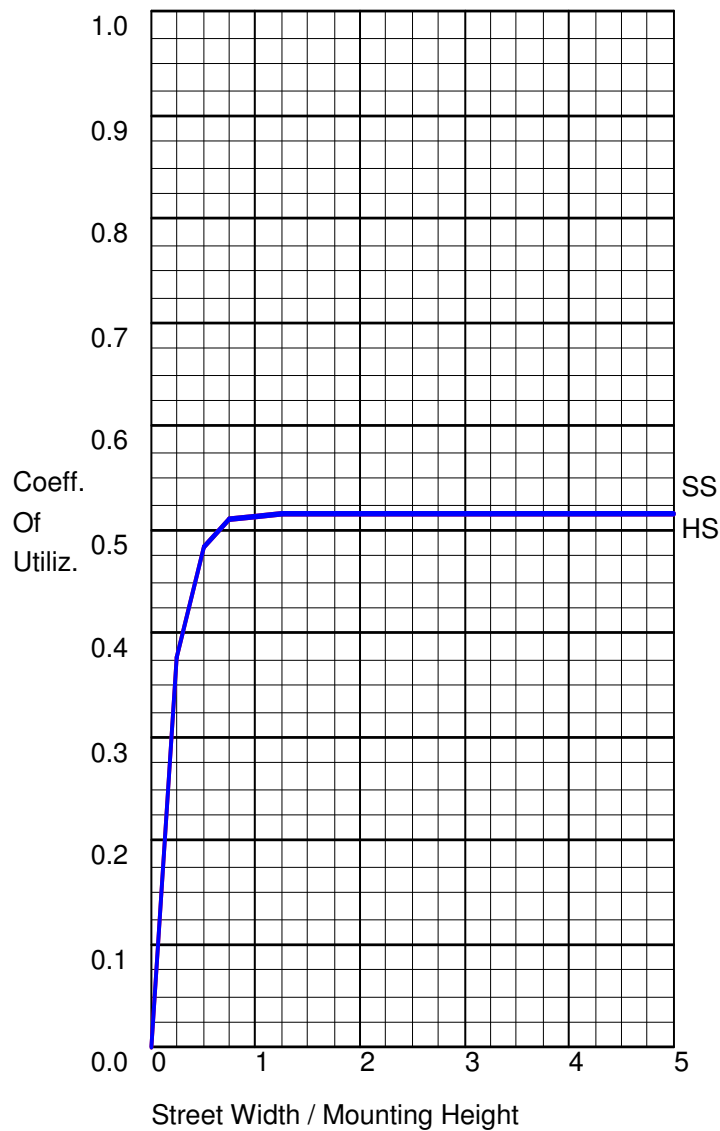
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-840-XXX-DIM-UNV-S-XXX_IES****CANDELA TABULATION - (Cont.)**

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-L10-840-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

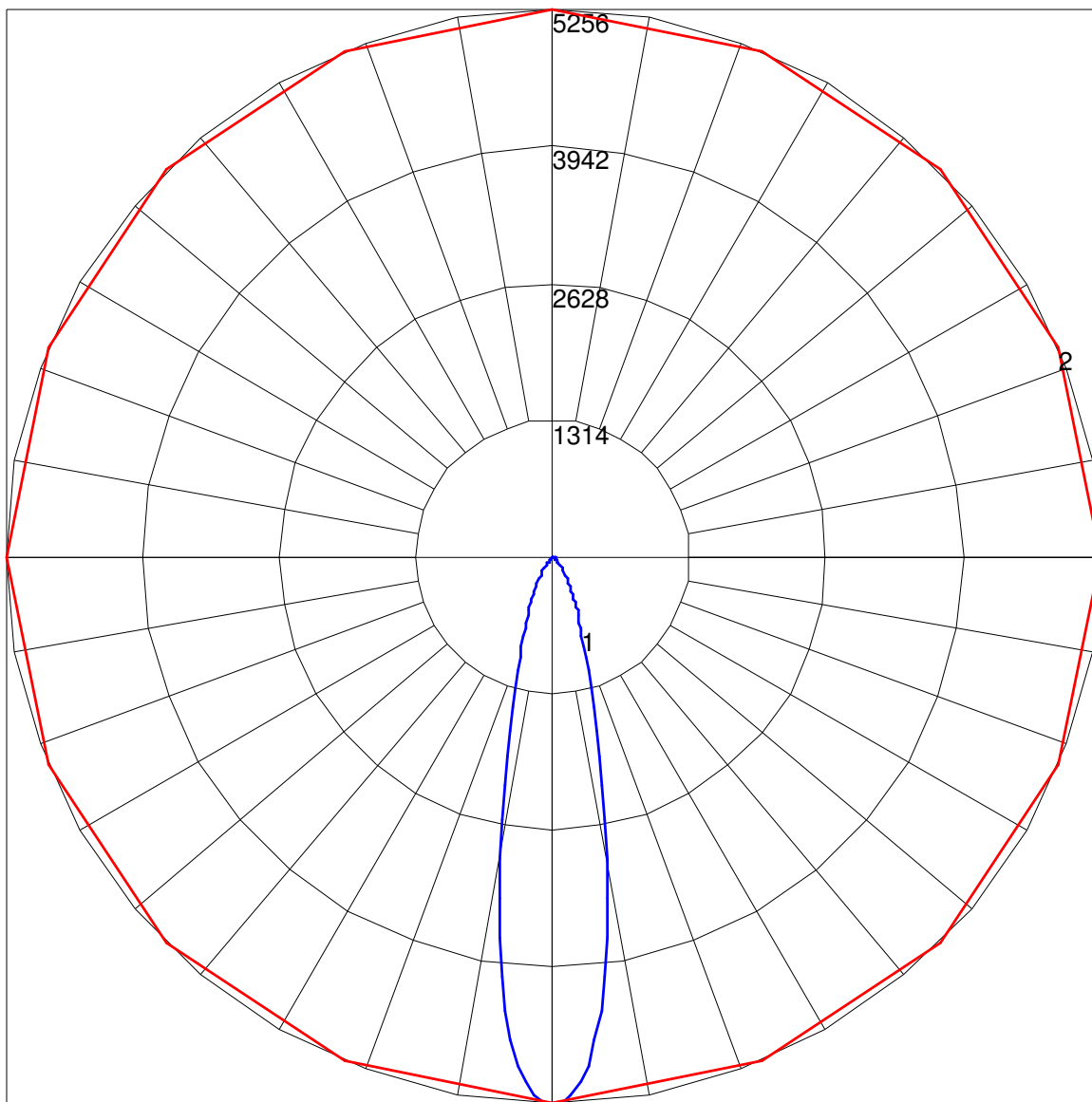
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	586.2	50.0
Downward House Side	586.2	50.0
Downward Total	1172.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	1172.4	100.0

POLAR GRAPH



Maximum Candela = 5256.188 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

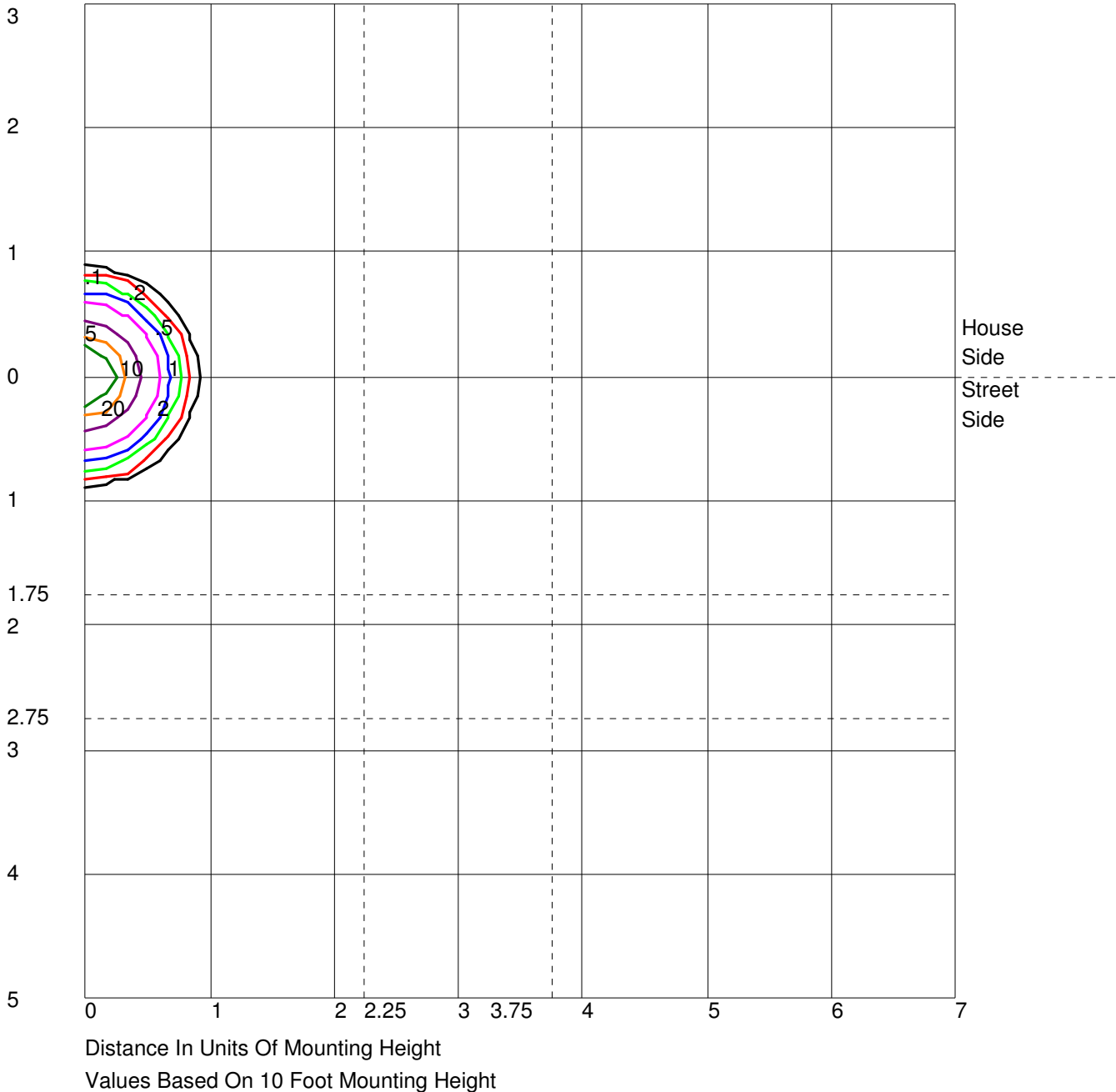


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