

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-830-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-L10-830-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	1161
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5204.146
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	5204.146
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.053 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.237 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-830-XXX-DIM-UNV-S-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	527.0	N.A.	45.4
FM - Front-Medium (30-60)	51.8	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)	527.0	N.A.	45.4
BM - Back-Medium (30-60)	51.8	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	1161.1	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	5204.146	5204.146	5204.146	5204.146	5204.146
1	5194.628	5192.406	5192.853	5190.903	5192.899
2	5129.353	5128.456	5125.006	5123.380	5128.952
3	5016.096	5012.123	5009.066	5005.929	5018.424
4	4846.683	4845.381	4840.164	4838.611	4853.987
5	4620.074	4615.986	4614.517	4612.563	4631.959
6	4335.610	4334.102	4335.469	4338.411	4354.490
7	4001.278	4002.832	4012.419	4021.098	4027.559
8	3629.247	3636.006	3654.539	3670.245	3665.817
9	3244.796	3254.907	3283.870	3304.648	3287.813
10	2870.445	2882.707	2918.770	2944.192	2915.644
11	2514.122	2528.480	2570.359	2596.140	2560.719
12	2185.157	2204.450	2245.275	2275.751	2235.429
13	1899.040	1915.295	1958.277	1990.649	1950.346
14	1651.341	1664.882	1705.239	1736.504	1699.220
15	1437.961	1451.197	1491.263	1519.876	1482.729
16	1259.532	1273.596	1302.736	1328.250	1295.939
17	1117.331	1118.468	1147.356	1168.042	1143.158
18	984.999	993.869	1016.180	1032.912	1013.959
19	880.291	885.219	909.332	924.174	910.271
20	792.800	799.384	815.910	828.371	814.528
21	721.843	725.808	739.868	750.146	736.956
22	661.602	665.388	676.372	683.238	672.059
23	611.242	613.223	621.681	627.409	617.345
24	567.375	568.432	575.138	578.313	569.634
25	527.537	528.847	533.098	534.052	526.751
26	491.616	491.521	493.219	492.574	486.208
27	454.538	452.668	453.332	452.130	446.317
28	414.945	412.762	412.094	411.392	407.167
29	373.268	371.226	370.478	371.696	368.455
30	328.946	328.221	327.629	330.145	328.309
31	284.182	284.357	284.518	288.582	287.487
32	240.948	241.772	242.157	247.489	247.970
33	198.736	200.324	201.721	207.114	209.526
34	159.609	162.330	164.143	169.895	173.658
35	126.195	128.511	129.275	134.710	140.049
36	94.861	98.177	100.555	104.147	110.043
37	70.393	74.637	75.625	78.801	85.274
38	51.798	54.749	55.562	59.309	64.237
39	39.307	39.772	41.166	43.623	46.554
40	28.411	29.647	31.567	33.349	34.956
41	21.438	22.464	23.770	25.250	26.892
42	16.686	17.545	18.854	19.999	21.300
43	13.507	14.114	15.331	16.339	17.285
44	11.301	11.740	12.793	13.690	14.098
45	9.698	10.030	10.946	11.637	11.820
46	8.534	8.778	9.576	10.076	10.190
47	7.637	7.839	8.519	8.866	8.927
48	6.927	7.122	7.679	7.927	7.961
49	6.370	6.530	7.030	7.187	7.190
50	5.916	6.057	6.488	6.591	6.572
51	5.515	5.649	6.034	6.107	6.068
52	5.149	5.263	5.603	5.626	5.545

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-830-XXX-DIM-UNV-S-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	4.813	4.916	5.210	5.187	5.080
54	4.519	4.618	4.862	4.797	4.675
55	4.263	4.347	4.553	4.462	4.313
56	4.034	4.095	4.278	4.172	3.992
57	3.817	3.866	4.011	3.908	3.721
58	3.610	3.652	3.775	3.672	3.496
59	3.420	3.450	3.542	3.450	3.286
60	3.229	3.256	3.328	3.236	3.076
61	3.038	3.061	3.126	3.038	2.885
62	2.847	2.866	2.923	2.836	2.687
63	2.656	2.679	2.725	2.637	2.496
64	2.469	2.488	2.534	2.443	2.305
65	2.286	2.309	2.343	2.256	2.126
66	2.107	2.126	2.160	2.076	1.943
67	1.935	1.958	1.988	1.912	1.779
68	1.779	1.794	1.828	1.744	1.618
69	1.626	1.645	1.675	1.595	1.466
70	1.481	1.500	1.534	1.446	1.317
71	1.343	1.359	1.393	1.305	1.176
72	1.210	1.225	1.252	1.168	1.042
73	1.076	1.092	1.114	1.027	0.916
74	0.939	0.954	0.969	0.893	0.779
75	0.798	0.809	0.813	0.752	0.637
76	0.660	0.668	0.649	0.611	0.508
77	0.538	0.542	0.508	0.473	0.389
78	0.416	0.405	0.351	0.324	0.286
79	0.260	0.267	0.256	0.252	0.240
80	0.237	0.237	0.237	0.233	0.225
81	0.221	0.221	0.225	0.221	0.210
82	0.210	0.210	0.214	0.210	0.198
83	0.195	0.195	0.198	0.198	0.187
84	0.179	0.179	0.179	0.176	0.172
85	0.156	0.160	0.164	0.160	0.153
86	0.137	0.137	0.137	0.137	0.134
87	0.114	0.114	0.114	0.114	0.111
88	0.088	0.088	0.092	0.088	0.084
89	0.065	0.061	0.065	0.061	0.061
90	0.053	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

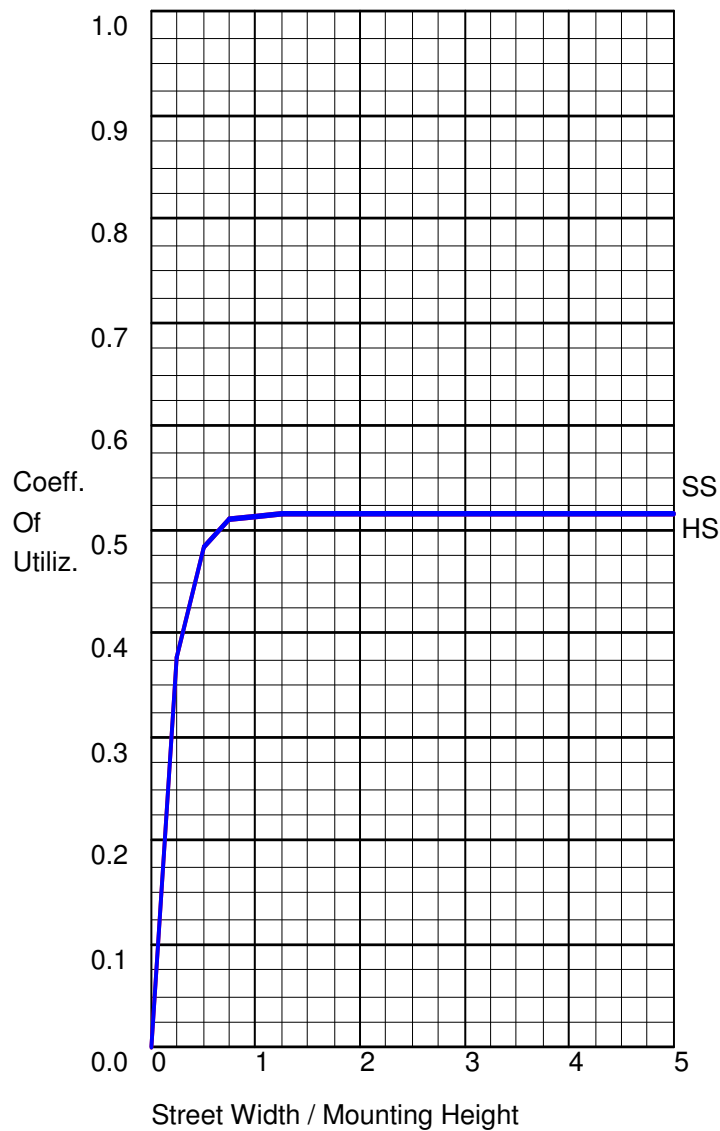
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-830-XXX-DIM-UNV-S-XXX_IES****CANDELA TABULATION - (Cont.)**

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-L10-830-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

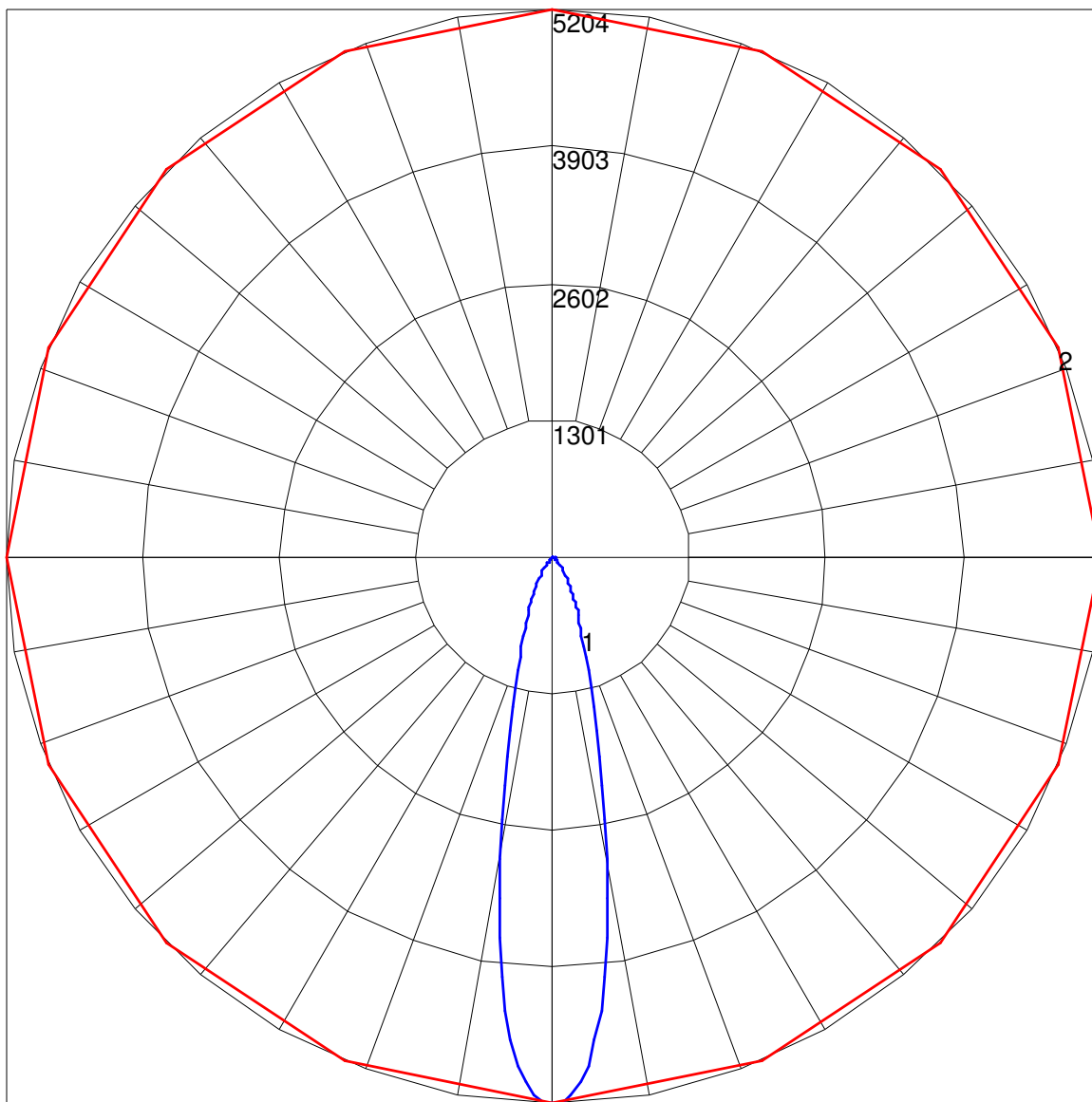
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	580.4	50.0
Downward House Side	580.4	50.0
Downward Total	1160.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	1160.8	100.0

POLAR GRAPH



Maximum Candela = 5204.146 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

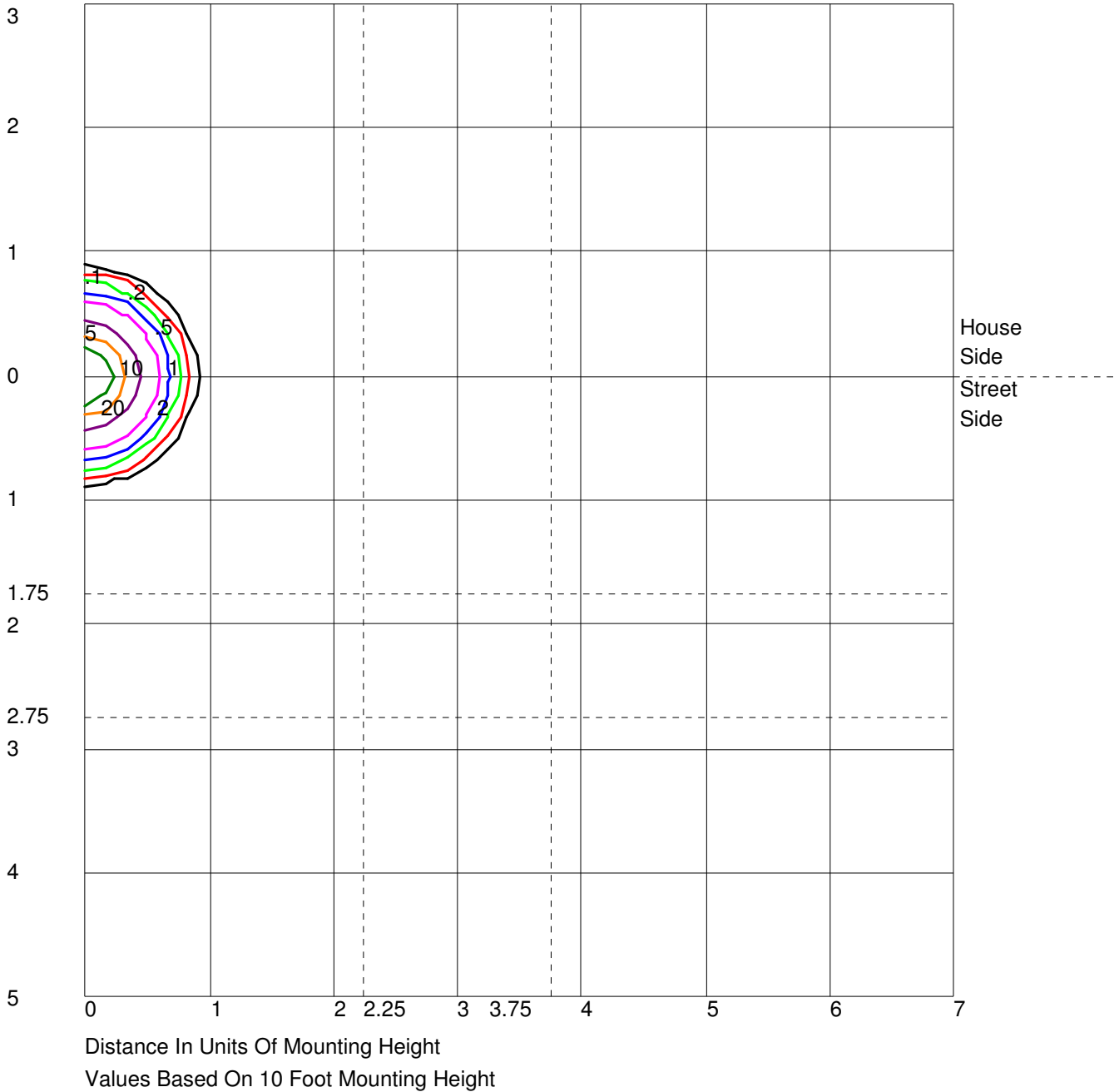


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