

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-927-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-L10-927-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	1040
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2948.466
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	2948.466
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.095 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.475 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-927-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	456.9	N.A.	43.9
FM - Front-Medium (30-60)	59.7	N.A.	5.7
FH - Front-High (60-80)	3.0	N.A.	0.3
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	456.9	N.A.	43.9
BM - Back-Medium (30-60)	59.7	N.A.	5.7
BH - Back-High (60-80)	3.0	N.A.	0.3
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	1039.7	N.A.	100.0
BUG Rating	B1-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	2948.466	2948.466	2948.466	2948.466	2948.466
1	2944.966	2944.832	2944.262	2944.118	2945.191
2	2930.500	2929.641	2929.074	2924.356	2923.374
3	2903.490	2899.099	2899.839	2897.075	2898.480
4	2860.383	2857.968	2855.518	2852.532	2855.000
5	2800.487	2804.162	2796.882	2792.294	2798.353
6	2726.290	2728.849	2723.498	2721.449	2725.744
7	2643.118	2639.587	2635.943	2636.616	2639.964
8	2541.886	2536.743	2535.363	2534.644	2539.619
9	2423.988	2420.999	2417.281	2417.274	2426.523
10	2292.035	2288.655	2286.215	2286.029	2297.868
11	2144.137	2141.306	2142.880	2145.556	2156.192
12	1984.656	1983.012	1986.878	1991.525	2005.438
13	1817.673	1819.229	1825.482	1831.868	1844.704
14	1648.880	1651.845	1662.667	1670.673	1680.474
15	1483.446	1488.734	1502.782	1511.910	1521.258
16	1325.539	1333.725	1349.666	1362.087	1366.928
17	1183.225	1191.608	1210.373	1220.213	1223.131
18	1055.944	1059.401	1080.205	1090.252	1093.351
19	935.387	945.597	967.048	975.294	978.272
20	834.388	844.943	863.873	875.896	878.638
21	749.030	758.078	776.762	786.102	785.166
22	677.414	686.539	702.741	710.391	708.899
23	618.880	625.601	640.303	647.073	644.517
24	568.781	574.421	588.595	593.457	590.792
25	525.094	531.054	543.891	547.721	544.260
26	485.899	491.828	503.259	506.487	503.474
27	449.527	453.925	464.757	467.514	464.912
28	412.783	416.071	425.583	427.942	426.189
29	375.584	378.400	385.096	388.047	387.350
30	336.843	337.934	343.813	347.028	346.158
31	295.937	296.591	300.869	303.749	303.795
32	255.777	255.397	258.118	261.100	261.167
33	214.923	214.244	216.596	219.215	218.919
34	175.764	175.489	177.038	179.309	179.376
35	141.540	139.600	141.117	142.138	141.596
36	108.741	108.291	109.090	109.660	108.608
37	81.943	82.119	81.281	81.235	82.397
38	60.780	61.685	59.717	60.185	60.414
39	44.564	44.120	44.420	43.603	43.430
40	34.115	32.555	32.612	32.562	32.555
41	24.831	24.856	25.296	25.468	25.760
42	19.818	20.039	20.722	21.110	21.592
43	17.054	17.262	18.008	18.526	18.913
44	15.628	15.783	16.508	17.050	17.297
45	14.994	15.100	15.811	16.244	16.445
46	14.787	14.920	15.540	15.874	16.058
47	14.854	14.984	15.501	15.769	15.952
48	15.033	15.121	15.561	15.755	15.952
49	15.139	15.234	15.603	15.737	15.910
50	15.149	15.223	15.554	15.656	15.786
51	14.984	15.040	15.350	15.427	15.519
52	14.533	14.604	14.875	14.913	14.970

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-927-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	13.857	13.917	14.174	14.171	14.206
54	12.995	13.065	13.283	13.248	13.290
55	12.030	12.072	12.269	12.217	12.241
56	10.984	11.005	11.143	11.108	11.115
57	9.872	9.896	9.981	9.960	9.946
58	8.809	8.826	8.868	8.851	8.837
59	7.823	7.816	7.826	7.805	7.798
60	6.925	6.911	6.893	6.890	6.886
61	6.151	6.126	6.105	6.091	6.098
62	5.489	5.453	5.436	5.422	5.429
63	4.939	4.911	4.876	4.866	4.880
64	4.475	4.454	4.425	4.408	4.432
65	4.105	4.084	4.059	4.035	4.063
66	3.774	3.764	3.735	3.718	3.749
67	3.499	3.489	3.457	3.447	3.478
68	3.242	3.235	3.211	3.193	3.232
69	3.010	3.007	2.975	2.961	2.996
70	2.795	2.788	2.757	2.736	2.764
71	2.581	2.581	2.538	2.514	2.531
72	2.376	2.373	2.327	2.295	2.317
73	2.169	2.165	2.112	2.074	2.091
74	1.950	1.947	1.891	1.845	1.862
75	1.722	1.704	1.655	1.602	1.616
76	1.458	1.436	1.377	1.334	1.348
77	1.158	1.144	1.067	1.035	1.035
78	0.810	0.803	0.725	0.683	0.690
79	0.525	0.532	0.510	0.514	0.514
80	0.475	0.475	0.468	0.468	0.468
81	0.444	0.444	0.444	0.447	0.444
82	0.422	0.419	0.419	0.422	0.422
83	0.394	0.391	0.391	0.391	0.394
84	0.363	0.359	0.359	0.363	0.363
85	0.327	0.327	0.327	0.327	0.327
86	0.289	0.285	0.285	0.285	0.289
87	0.239	0.239	0.239	0.239	0.239
88	0.187	0.187	0.187	0.183	0.183
89	0.130	0.127	0.127	0.127	0.127
90	0.095	0.088	0.088	0.084	0.081
91	0.088	0.084	0.081	0.077	0.077
92	0.088	0.084	0.081	0.081	0.077
93	0.088	0.084	0.084	0.081	0.081
94	0.088	0.084	0.084	0.081	0.081
95	0.088	0.084	0.084	0.081	0.084
96	0.092	0.084	0.084	0.081	0.081
97	0.092	0.088	0.084	0.084	0.084
98	0.092	0.088	0.088	0.088	0.088
99	0.099	0.088	0.088	0.088	0.088
100	0.099	0.092	0.088	0.088	0.088
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

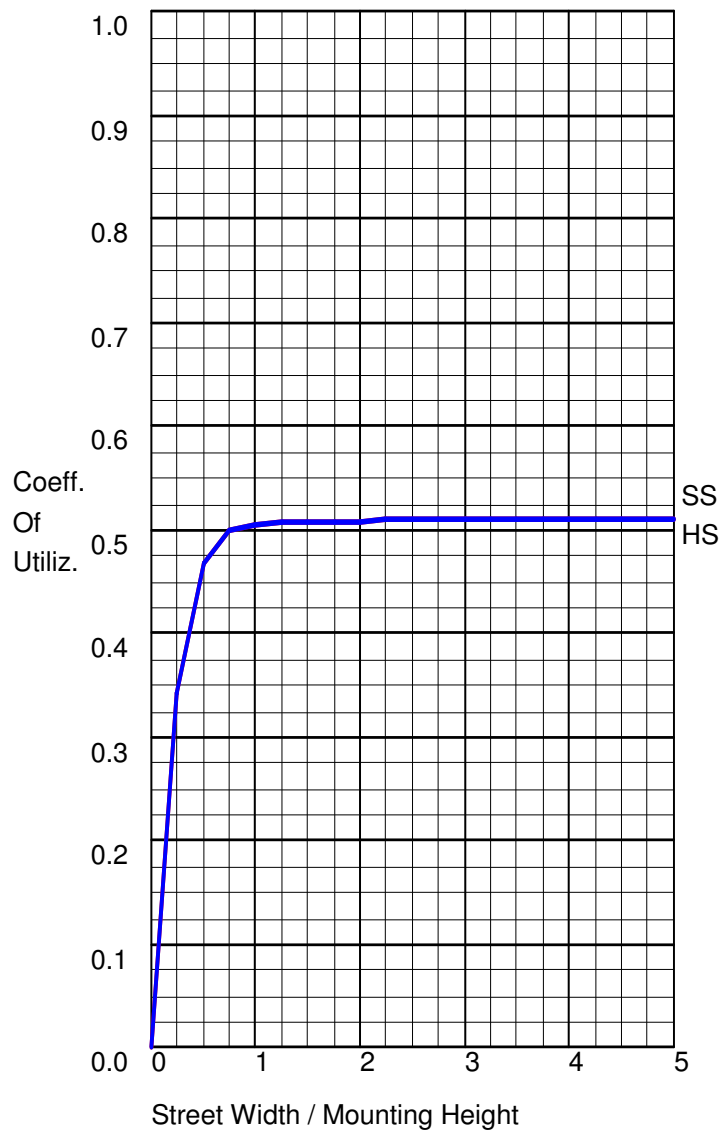
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109	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	0.000
112	0.000	0.000	0.000	0.000	0.000
113	0.000	0.000	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
116	0.000	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

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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

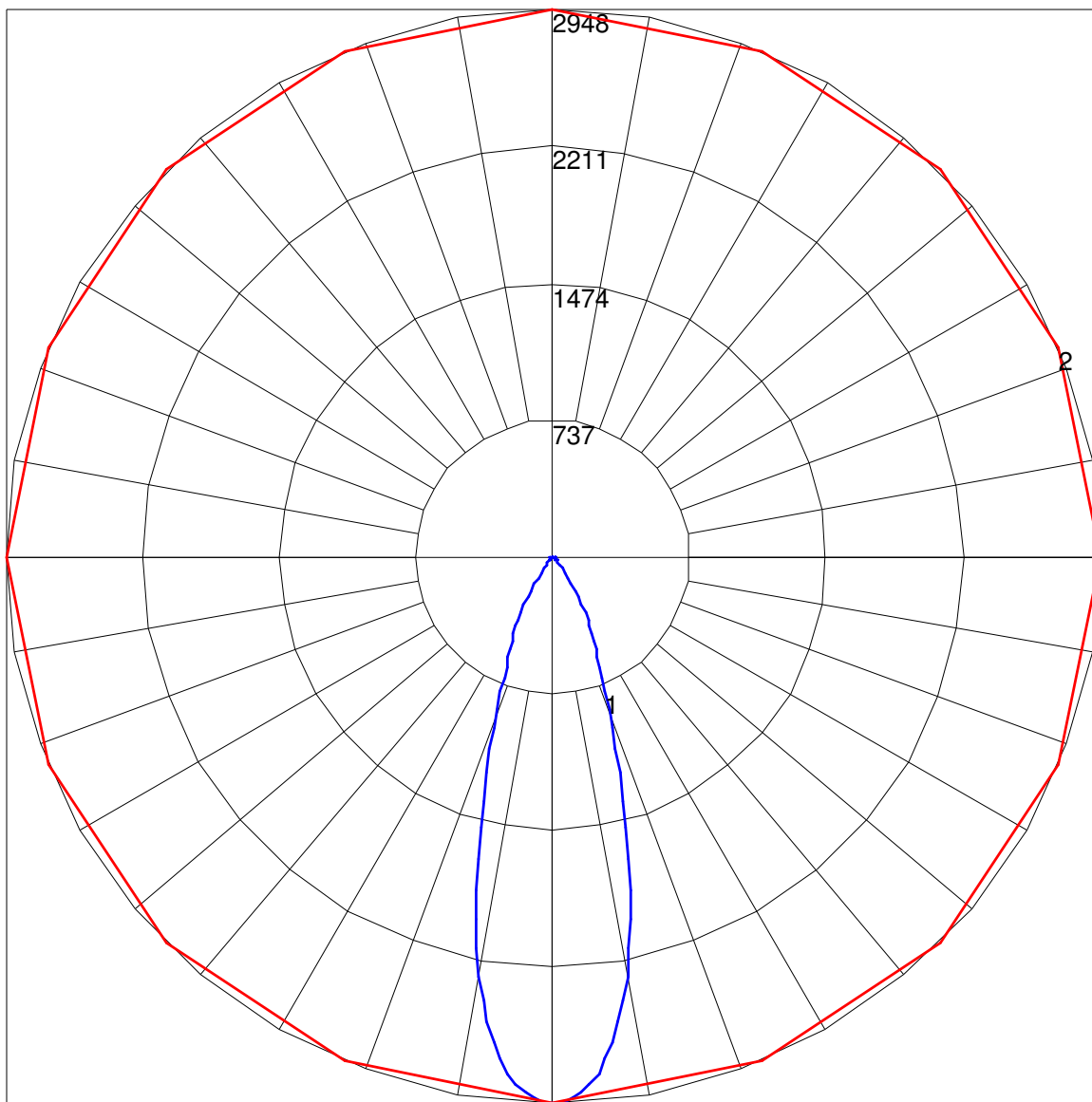
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	519.8	50.0
Downward House Side	519.8	50.0
Downward Total	1039.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	1039.6	100.0

POLAR GRAPH



Maximum Candela = 2948.466 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

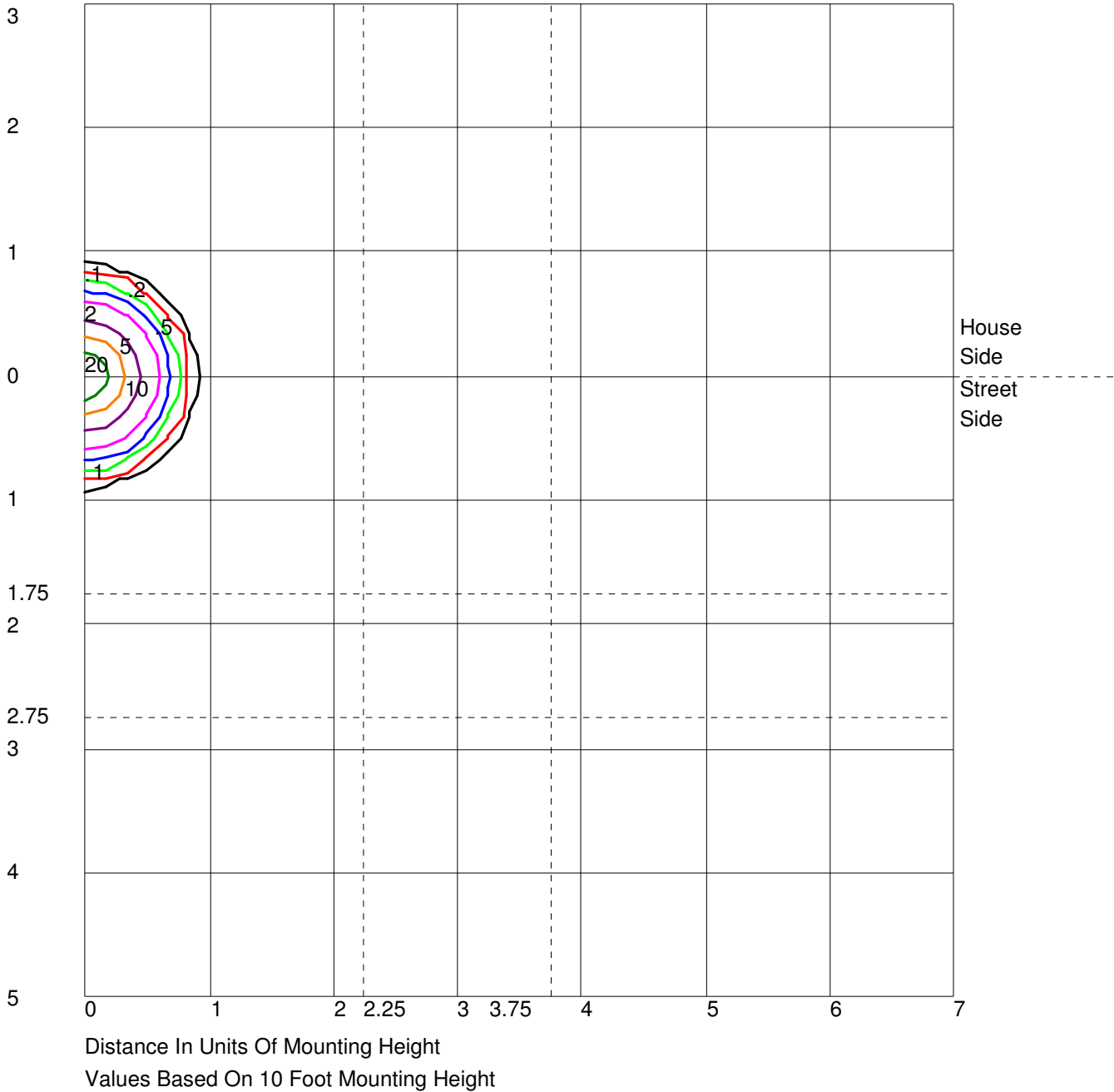


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