

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-835-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-L20-835-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	2283
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10233.476
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	10233.476
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.105 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.465 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-835-XXX-DIM-UNV-S-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1036.4	N.A.	45.4
FM - Front-Medium (30-60)	101.8	N.A.	4.5
FH - Front-High (60-80)	3.1	N.A.	0.1
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	1036.4	N.A.	45.4
BM - Back-Medium (30-60)	101.8	N.A.	4.5
BH - Back-High (60-80)	3.1	N.A.	0.1
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	2283.1	N.A.	100.0
BUG Rating	B3-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	10233.476	10233.476	10233.476	10233.476	10233.476
1	10214.759	10210.391	10211.269	10207.434	10211.359
2	10086.402	10084.639	10077.854	10074.657	10085.614
3	9863.693	9855.881	9849.869	9843.700	9868.271
4	9530.557	9527.998	9517.739	9514.684	9544.921
5	9084.952	9076.914	9074.025	9070.182	9108.322
6	8525.579	8522.615	8525.302	8531.088	8562.706
7	7868.147	7871.202	7890.054	7907.120	7919.826
8	7136.582	7149.873	7186.317	7217.200	7208.494
9	6380.595	6400.475	6457.430	6498.287	6465.183
10	5644.466	5668.580	5739.494	5789.484	5733.347
11	4943.791	4972.024	5054.376	5105.072	5035.419
12	4296.911	4334.848	4415.128	4475.055	4395.766
13	3734.289	3766.252	3850.773	3914.429	3835.177
14	3247.211	3273.839	3353.196	3414.676	3341.360
15	2827.618	2853.645	2932.432	2988.696	2915.651
16	2476.755	2504.411	2561.711	2611.881	2548.344
17	2197.129	2199.365	2256.170	2296.847	2247.914
18	1936.910	1954.352	1998.225	2031.127	1993.858
19	1731.012	1740.701	1788.117	1817.304	1789.964
20	1558.969	1571.915	1604.412	1628.915	1601.695
21	1419.438	1427.235	1454.883	1475.094	1449.157
22	1300.980	1308.425	1330.024	1343.525	1321.543
23	1201.952	1205.847	1222.478	1233.743	1213.953
24	1115.691	1117.769	1130.956	1137.200	1120.133
25	1037.354	1039.928	1048.289	1050.165	1035.808
26	966.718	966.530	969.870	968.601	956.083
27	893.807	890.130	891.436	889.072	877.642
28	815.951	811.658	810.345	808.964	800.656
29	733.997	729.982	728.511	730.905	724.534
30	646.843	645.417	644.253	649.199	645.589
31	558.817	559.162	559.478	567.470	565.316
32	473.801	475.422	476.180	486.665	487.610
33	390.797	393.919	396.666	407.270	412.013
34	313.856	319.207	322.772	334.082	341.482
35	248.151	252.706	254.207	264.894	275.393
36	186.535	193.057	197.732	204.795	216.390
37	138.421	146.766	148.710	154.954	167.683
38	101.857	107.658	109.257	116.627	126.315
39	77.293	78.209	80.948	85.781	91.545
40	55.867	58.298	62.073	65.578	68.738
41	42.155	44.174	46.741	49.653	52.880
42	32.812	34.500	37.074	39.326	41.885
43	26.560	27.753	30.147	32.129	33.990
44	22.222	23.085	25.157	26.920	27.723
45	19.070	19.723	21.524	22.883	23.243
46	16.781	17.261	18.830	19.813	20.038
47	15.017	15.415	16.751	17.434	17.554
48	13.621	14.004	15.100	15.588	15.655
49	12.526	12.841	13.824	14.132	14.139
50	11.633	11.910	12.758	12.961	12.923
51	10.845	11.107	11.865	12.008	11.933
52	10.124	10.349	11.017	11.062	10.905

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-835-XXX-DIM-UNV-S-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	9.464	9.666	10.244	10.199	9.989
54	8.886	9.081	9.561	9.434	9.194
55	8.383	8.548	8.953	8.773	8.481
56	7.933	8.053	8.413	8.203	7.850
57	7.505	7.602	7.888	7.685	7.317
58	7.100	7.182	7.422	7.220	6.875
59	6.724	6.784	6.965	6.784	6.462
60	6.349	6.402	6.544	6.364	6.049
61	5.974	6.019	6.147	5.974	5.674
62	5.599	5.636	5.749	5.576	5.283
63	5.223	5.268	5.359	5.186	4.908
64	4.856	4.893	4.983	4.803	4.533
65	4.495	4.540	4.608	4.435	4.180
66	4.143	4.180	4.248	4.083	3.820
67	3.805	3.850	3.910	3.760	3.497
68	3.497	3.527	3.595	3.430	3.182
69	3.197	3.235	3.295	3.137	2.882
70	2.912	2.949	3.017	2.844	2.589
71	2.642	2.672	2.739	2.567	2.312
72	2.379	2.409	2.462	2.297	2.049
73	2.116	2.146	2.191	2.019	1.801
74	1.846	1.876	1.906	1.756	1.531
75	1.569	1.591	1.599	1.478	1.253
76	1.298	1.313	1.276	1.201	0.998
77	1.058	1.066	0.998	0.931	0.766
78	0.818	0.796	0.690	0.638	0.563
79	0.510	0.525	0.503	0.495	0.473
80	0.465	0.465	0.465	0.458	0.443
81	0.435	0.435	0.443	0.435	0.413
82	0.413	0.413	0.420	0.413	0.390
83	0.383	0.383	0.390	0.390	0.368
84	0.353	0.353	0.353	0.345	0.338
85	0.308	0.315	0.323	0.315	0.300
86	0.270	0.270	0.270	0.270	0.263
87	0.225	0.225	0.225	0.225	0.218
88	0.173	0.173	0.180	0.173	0.165
89	0.128	0.120	0.128	0.120	0.120
90	0.105	0.090	0.098	0.090	0.090
91	0.098	0.090	0.090	0.090	0.083
92	0.090	0.090	0.090	0.090	0.083
93	0.098	0.090	0.090	0.090	0.083
94	0.098	0.090	0.090	0.090	0.083
95	0.098	0.090	0.090	0.090	0.083
96	0.098	0.098	0.090	0.090	0.083
97	0.098	0.098	0.090	0.090	0.090
98	0.098	0.098	0.090	0.090	0.083
99	0.098	0.098	0.090	0.098	0.083
100	0.098	0.098	0.090	0.098	0.090
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

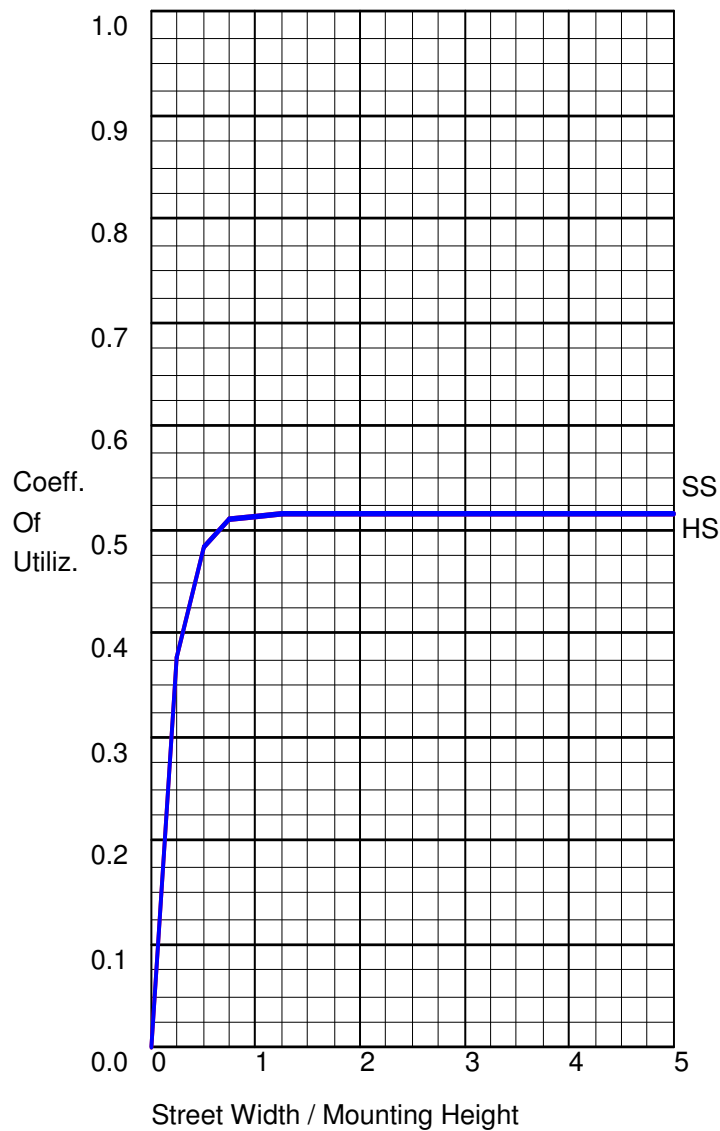
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-835-XXX-DIM-UNV-S-XXX_IES****CANDELA TABULATION - (Cont.)**

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-L20-835-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

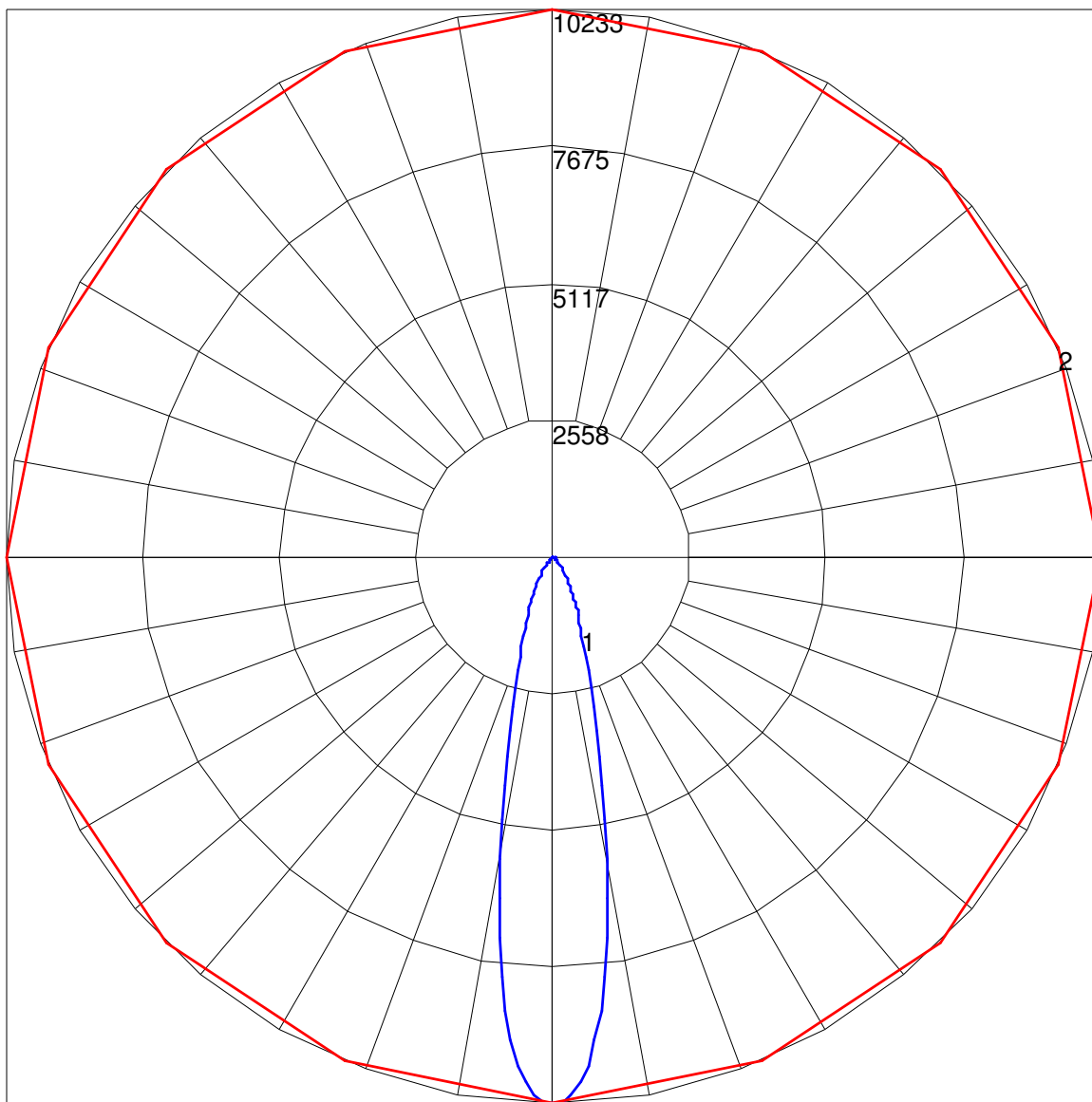
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1141.4	50.0
Downward House Side	1141.4	50.0
Downward Total	2282.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2283.0	100.0

POLAR GRAPH



Maximum Candela = 10233.476 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

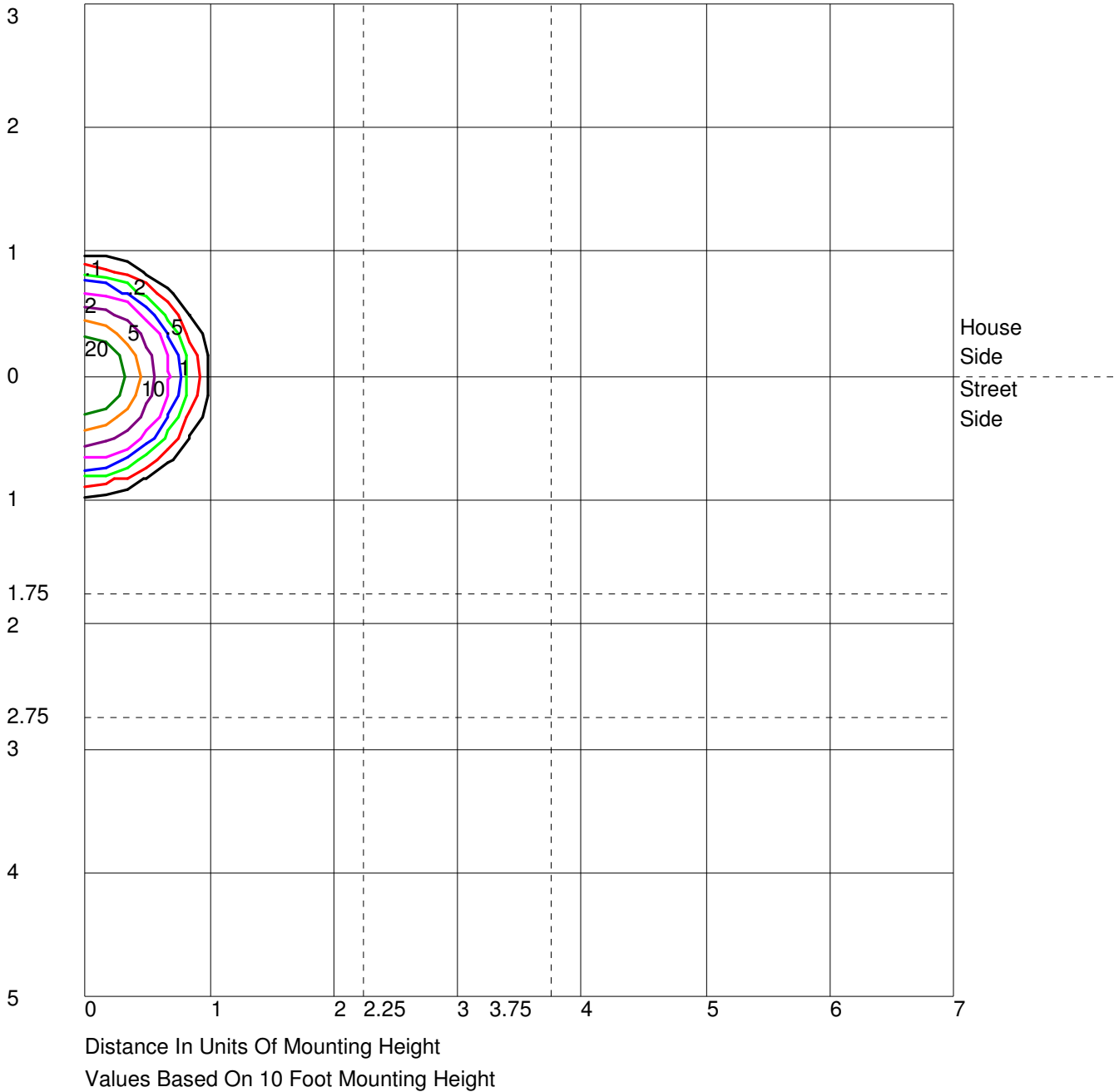


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