

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-940-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/MICROPRISIM LENS
[LUMCAT] W4CR-xx-L15-940-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	1581
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4484.07
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	4484.07
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.145 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.723 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-940-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	694.9	N.A.	44.0
FM - Front-Medium (30-60)	90.8	N.A.	5.7
FH - Front-High (60-80)	4.5	N.A.	0.3
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	694.9	N.A.	44.0
BM - Back-Medium (30-60)	90.8	N.A.	5.7
BH - Back-High (60-80)	4.5	N.A.	0.3
BVH - Back-Very High (80-90)	0.3	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	1581.1	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	4484.070	4484.070	4484.070	4484.070	4484.070
1	4478.748	4478.545	4477.677	4477.458	4479.091
2	4456.748	4455.441	4454.579	4447.405	4445.911
3	4415.670	4408.993	4410.118	4405.915	4408.051
4	4350.113	4346.440	4342.714	4338.173	4341.927
5	4259.022	4264.612	4253.539	4246.563	4255.777
6	4146.182	4150.074	4141.936	4138.820	4145.352
7	4019.694	4014.324	4008.782	4009.805	4014.896
8	3865.739	3857.916	3855.817	3854.725	3862.291
9	3686.437	3681.891	3676.237	3676.226	3690.292
10	3485.761	3480.621	3476.910	3476.626	3494.633
11	3260.835	3256.531	3258.924	3262.993	3279.168
12	3018.295	3015.794	3021.673	3028.741	3049.901
13	2764.344	2766.711	2776.220	2785.932	2805.454
14	2507.642	2512.150	2528.609	2540.784	2555.690
15	2256.047	2264.089	2285.452	2299.336	2313.551
16	2015.900	2028.348	2052.592	2071.482	2078.844
17	1799.466	1812.215	1840.753	1855.718	1860.156
18	1605.895	1611.153	1642.791	1658.072	1662.784
19	1422.551	1438.078	1470.701	1483.241	1487.771
20	1268.949	1285.001	1313.791	1332.075	1336.246
21	1139.136	1152.897	1181.311	1195.516	1194.092
22	1030.221	1044.099	1068.739	1080.374	1078.104
23	941.202	951.423	973.782	984.078	980.191
24	865.011	873.589	895.145	902.539	898.486
25	798.571	807.635	827.157	832.982	827.719
26	738.962	747.979	765.364	770.274	765.690
27	683.648	690.335	706.810	711.002	707.046
28	627.766	632.767	647.234	650.821	648.155
29	571.193	575.477	585.660	590.147	589.087
30	512.275	513.935	522.877	527.765	526.443
31	450.065	451.061	457.566	461.946	462.015
32	388.989	388.411	392.550	397.085	397.186
33	326.859	325.825	329.402	333.386	332.936
34	267.304	266.886	269.242	272.696	272.797
35	215.256	212.305	214.613	216.166	215.341
36	165.376	164.690	165.906	166.773	165.172
37	124.619	124.887	123.613	123.543	125.310
38	92.435	93.811	90.818	91.530	91.878
39	67.774	67.099	67.554	66.312	66.050
40	51.882	49.510	49.596	49.521	49.510
41	37.763	37.801	38.470	38.732	39.177
42	30.139	30.476	31.515	32.104	32.837
43	25.936	26.252	27.387	28.174	28.763
44	23.767	24.003	25.106	25.930	26.305
45	22.804	22.964	24.046	24.704	25.010
46	22.488	22.691	23.634	24.142	24.421
47	22.589	22.788	23.575	23.982	24.260
48	22.863	22.996	23.666	23.960	24.260
49	23.023	23.168	23.730	23.933	24.196
50	23.039	23.152	23.655	23.810	24.008
51	22.788	22.873	23.344	23.462	23.601
52	22.102	22.209	22.622	22.680	22.766

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53	21.074	21.165	21.556	21.551	21.604
54	19.762	19.869	20.201	20.148	20.212
55	18.295	18.360	18.659	18.579	18.617
56	16.705	16.737	16.946	16.893	16.903
57	15.013	15.051	15.179	15.147	15.126
58	13.396	13.423	13.487	13.460	13.439
59	11.897	11.886	11.902	11.870	11.860
60	10.532	10.510	10.484	10.478	10.473
61	9.354	9.316	9.284	9.263	9.274
62	8.347	8.294	8.267	8.245	8.256
63	7.512	7.469	7.416	7.400	7.421
64	6.805	6.773	6.730	6.703	6.741
65	6.243	6.211	6.173	6.136	6.179
66	5.740	5.724	5.681	5.654	5.702
67	5.322	5.306	5.258	5.242	5.290
68	4.931	4.921	4.883	4.856	4.915
69	4.578	4.573	4.524	4.503	4.556
70	4.251	4.241	4.192	4.160	4.203
71	3.925	3.925	3.860	3.823	3.850
72	3.614	3.609	3.539	3.491	3.523
73	3.298	3.293	3.213	3.154	3.180
74	2.966	2.961	2.875	2.806	2.832
75	2.618	2.591	2.516	2.436	2.458
76	2.217	2.185	2.093	2.029	2.051
77	1.762	1.740	1.622	1.574	1.574
78	1.231	1.221	1.103	1.039	1.049
79	0.798	0.808	0.776	0.782	0.782
80	0.723	0.723	0.712	0.712	0.712
81	0.675	0.675	0.675	0.680	0.675
82	0.643	0.637	0.637	0.643	0.643
83	0.600	0.594	0.594	0.594	0.600
84	0.551	0.546	0.546	0.551	0.551
85	0.498	0.498	0.498	0.498	0.498
86	0.439	0.434	0.434	0.434	0.439
87	0.364	0.364	0.364	0.364	0.364
88	0.284	0.284	0.284	0.278	0.278
89	0.198	0.193	0.193	0.193	0.193
90	0.145	0.134	0.134	0.129	0.123
91	0.134	0.129	0.123	0.118	0.118
92	0.134	0.129	0.123	0.123	0.118
93	0.134	0.129	0.129	0.123	0.123
94	0.134	0.129	0.129	0.123	0.123
95	0.134	0.129	0.129	0.123	0.129
96	0.139	0.129	0.129	0.123	0.123
97	0.139	0.134	0.129	0.129	0.129
98	0.139	0.134	0.134	0.134	0.134
99	0.150	0.134	0.134	0.134	0.134
100	0.150	0.139	0.134	0.134	0.134
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

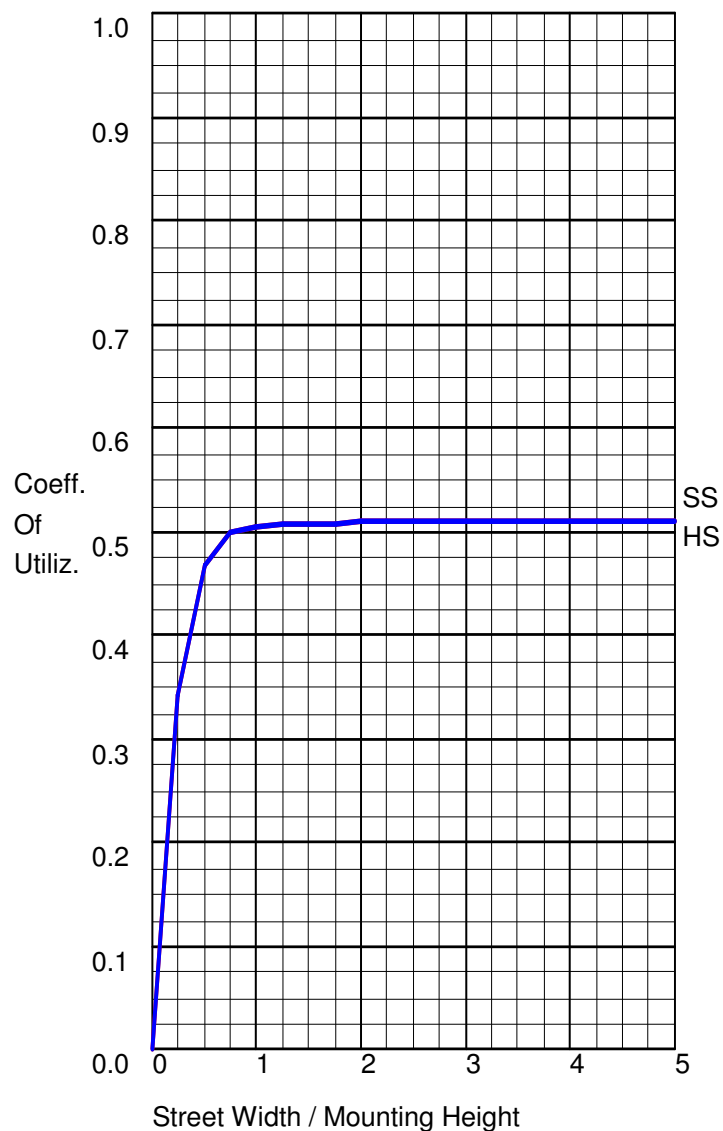
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109	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	0.000
112	0.000	0.000	0.000	0.000	0.000
113	0.000	0.000	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
116	0.000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

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-940-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

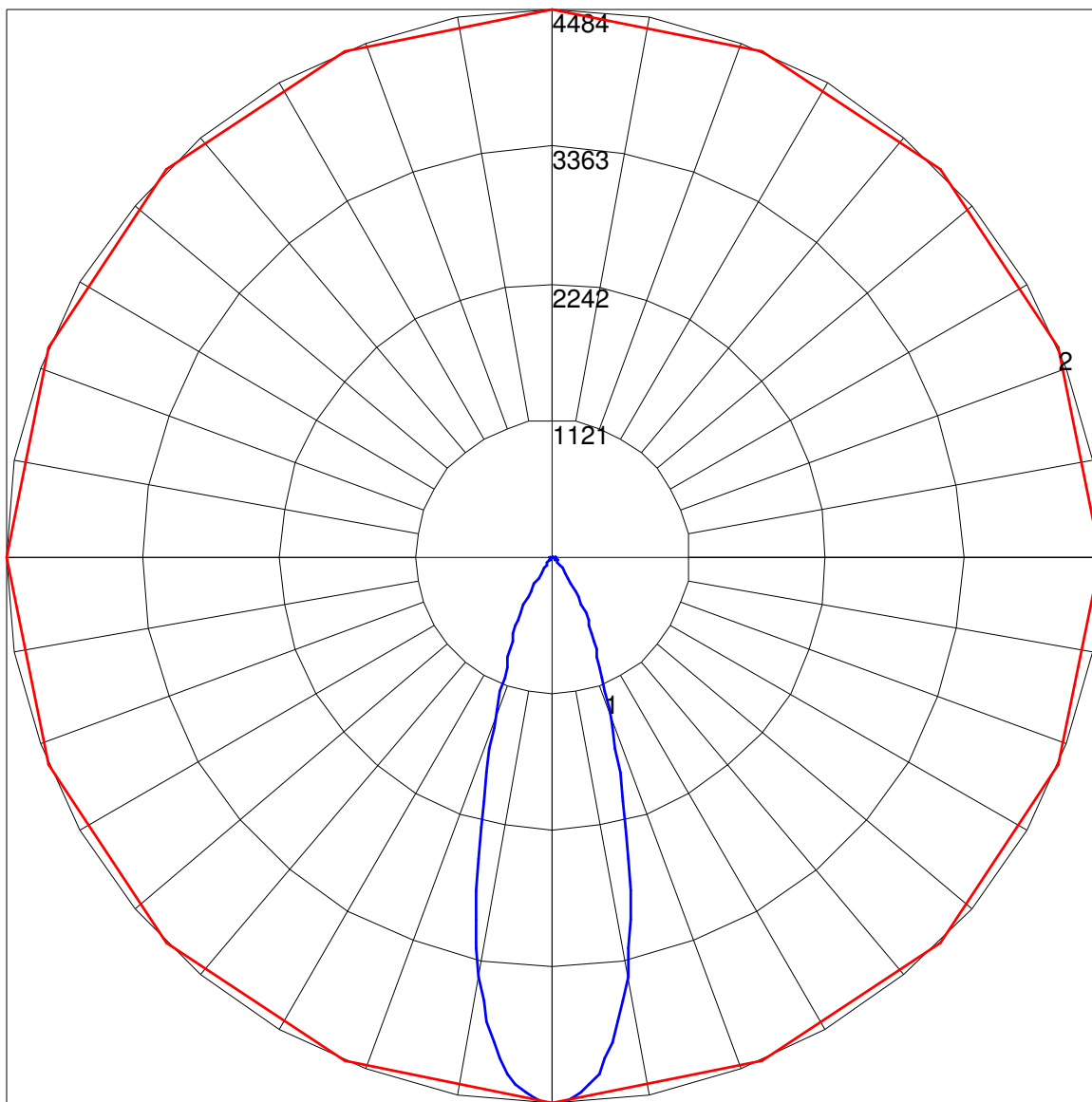
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	790.5	50.0
Downward House Side	790.5	50.0
Downward Total	1581.0	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1581.2	100.0

POLAR GRAPH



Maximum Candela = 4484.07 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

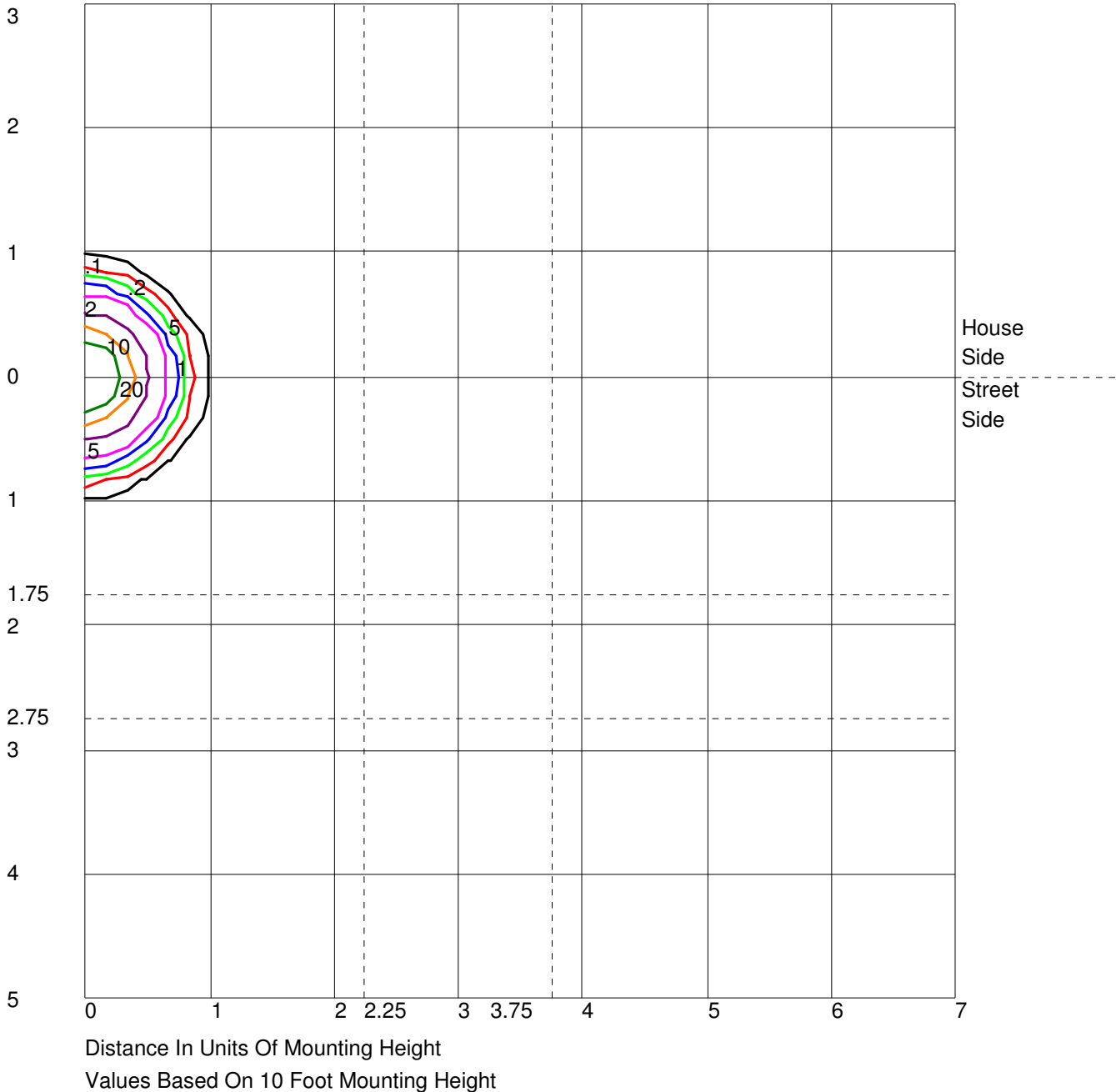


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