

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-935-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-L10-935-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	1073
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3042.565
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	3042.565
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.098 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.49 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-935-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	471.5	N.A.	43.9
FM - Front-Medium (30-60)	61.6	N.A.	5.7
FH - Front-High (60-80)	3.1	N.A.	0.3
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	471.5	N.A.	43.9
BM - Back-Medium (30-60)	61.6	N.A.	5.7
BH - Back-High (60-80)	3.1	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	1072.9	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	3042.565	3042.565	3042.565	3042.565	3042.565
1	3038.954	3038.816	3038.227	3038.078	3039.186
2	3024.026	3023.140	3022.555	3017.686	3016.673
3	2996.154	2991.623	2992.386	2989.534	2990.984
4	2951.672	2949.179	2946.651	2943.570	2946.117
5	2889.864	2893.656	2886.143	2881.410	2887.662
6	2813.298	2815.940	2810.417	2808.303	2812.735
7	2727.473	2723.829	2720.069	2720.763	2724.218
8	2623.010	2617.702	2616.278	2615.537	2620.670
9	2501.349	2498.264	2494.428	2494.421	2503.964
10	2365.185	2361.697	2359.179	2358.987	2371.204
11	2212.567	2209.646	2211.270	2214.031	2225.006
12	2047.996	2046.299	2050.288	2055.084	2069.442
13	1875.684	1877.289	1883.742	1890.332	1903.578
14	1701.504	1704.563	1715.731	1723.992	1734.106
15	1530.790	1536.247	1550.742	1560.163	1569.808
16	1367.844	1376.290	1392.740	1405.558	1410.553
17	1220.987	1229.638	1249.001	1259.156	1262.167
18	1089.644	1093.212	1114.679	1125.048	1128.245
19	965.240	975.776	997.911	1006.420	1009.493
20	861.017	871.909	891.443	903.850	906.680
21	772.935	782.272	801.552	811.191	810.224
22	699.033	708.450	725.169	733.063	731.523
23	638.631	645.567	660.738	667.724	665.087
24	586.934	592.754	607.380	612.397	609.647
25	541.852	548.003	561.249	565.201	561.630
26	501.406	507.524	519.320	522.652	519.542
27	463.874	468.411	479.590	482.435	479.750
28	425.956	429.350	439.166	441.600	439.791
29	387.570	390.477	397.387	400.431	399.712
30	347.593	348.719	354.786	358.103	357.206
31	305.381	306.057	310.471	313.443	313.490
32	263.940	263.547	266.356	269.433	269.502
33	221.783	221.082	223.508	226.211	225.906
34	181.373	181.090	182.688	185.031	185.100
35	146.057	144.055	145.621	146.674	146.115
36	112.212	111.747	112.572	113.160	112.074
37	84.558	84.739	83.875	83.827	85.026
38	62.720	63.653	61.623	62.106	62.342
39	45.986	45.529	45.837	44.994	44.816
40	35.204	33.594	33.652	33.601	33.594
41	25.623	25.649	26.103	26.281	26.583
42	20.450	20.679	21.384	21.783	22.281
43	17.598	17.813	18.583	19.117	19.516
44	16.127	16.287	17.035	17.595	17.849
45	15.473	15.582	16.316	16.763	16.970
46	15.259	15.397	16.036	16.381	16.570
47	15.328	15.462	15.996	16.272	16.461
48	15.513	15.604	16.058	16.258	16.461
49	15.622	15.720	16.101	16.239	16.417
50	15.633	15.709	16.051	16.156	16.290
51	15.462	15.520	15.840	15.920	16.014
52	14.997	15.070	15.349	15.389	15.447

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-935-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	14.299	14.361	14.626	14.623	14.659
54	13.409	13.482	13.707	13.671	13.715
55	12.414	12.457	12.661	12.606	12.632
56	11.335	11.357	11.498	11.462	11.469
57	10.187	10.212	10.300	10.278	10.263
58	9.090	9.108	9.151	9.133	9.119
59	8.072	8.065	8.076	8.054	8.047
60	7.146	7.132	7.113	7.110	7.106
61	6.347	6.321	6.300	6.285	6.292
62	5.664	5.627	5.609	5.595	5.602
63	5.097	5.068	5.032	5.021	5.035
64	4.618	4.596	4.567	4.548	4.574
65	4.236	4.214	4.189	4.163	4.192
66	3.895	3.884	3.855	3.836	3.869
67	3.611	3.600	3.568	3.557	3.589
68	3.346	3.339	3.313	3.295	3.335
69	3.106	3.103	3.070	3.055	3.092
70	2.885	2.877	2.845	2.823	2.852
71	2.663	2.663	2.619	2.594	2.612
72	2.452	2.449	2.401	2.369	2.391
73	2.238	2.234	2.180	2.140	2.158
74	2.013	2.009	1.951	1.904	1.922
75	1.777	1.758	1.708	1.653	1.668
76	1.504	1.482	1.420	1.377	1.391
77	1.195	1.181	1.101	1.068	1.068
78	0.836	0.828	0.748	0.705	0.712
79	0.541	0.549	0.527	0.530	0.530
80	0.490	0.490	0.483	0.483	0.483
81	0.458	0.458	0.458	0.461	0.458
82	0.436	0.432	0.432	0.436	0.436
83	0.407	0.403	0.403	0.403	0.407
84	0.374	0.371	0.371	0.374	0.374
85	0.338	0.338	0.338	0.338	0.338
86	0.298	0.294	0.294	0.294	0.298
87	0.247	0.247	0.247	0.247	0.247
88	0.193	0.193	0.193	0.189	0.189
89	0.134	0.131	0.131	0.131	0.131
90	0.098	0.091	0.091	0.087	0.084
91	0.091	0.087	0.084	0.080	0.080
92	0.091	0.087	0.084	0.084	0.080
93	0.091	0.087	0.087	0.084	0.084
94	0.091	0.087	0.087	0.084	0.084
95	0.091	0.087	0.087	0.084	0.087
96	0.094	0.087	0.087	0.084	0.084
97	0.094	0.091	0.087	0.087	0.087
98	0.094	0.091	0.091	0.091	0.091
99	0.102	0.091	0.091	0.091	0.091
100	0.102	0.094	0.091	0.091	0.091
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

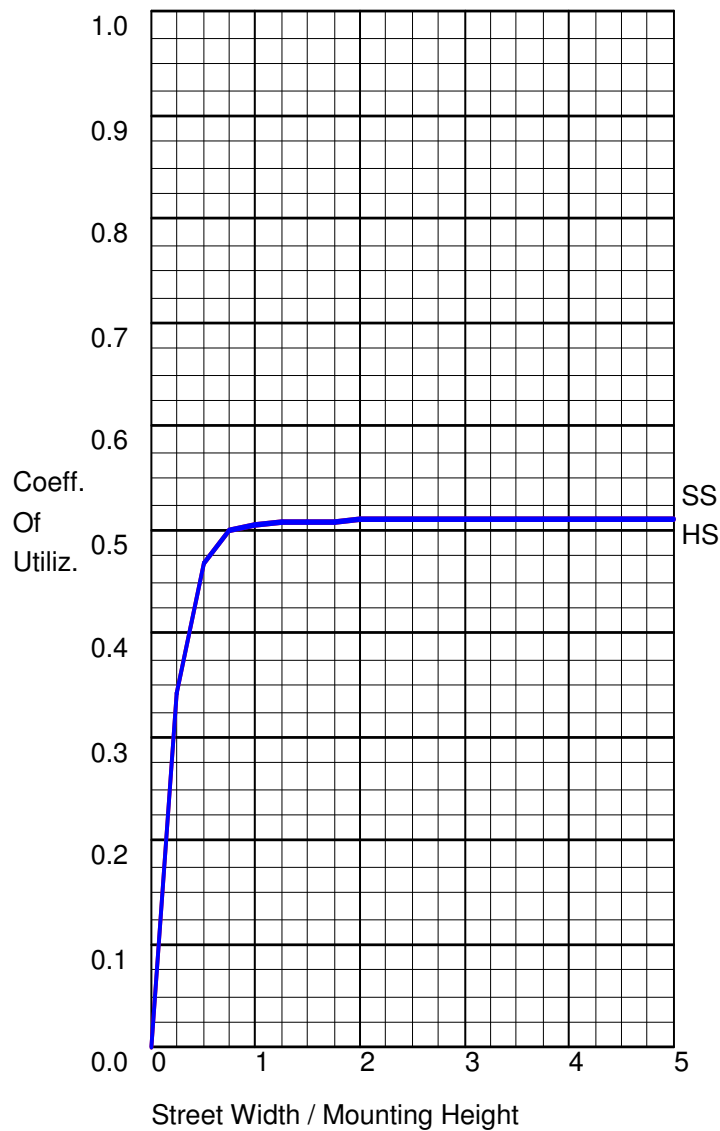
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-935-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L10-935-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

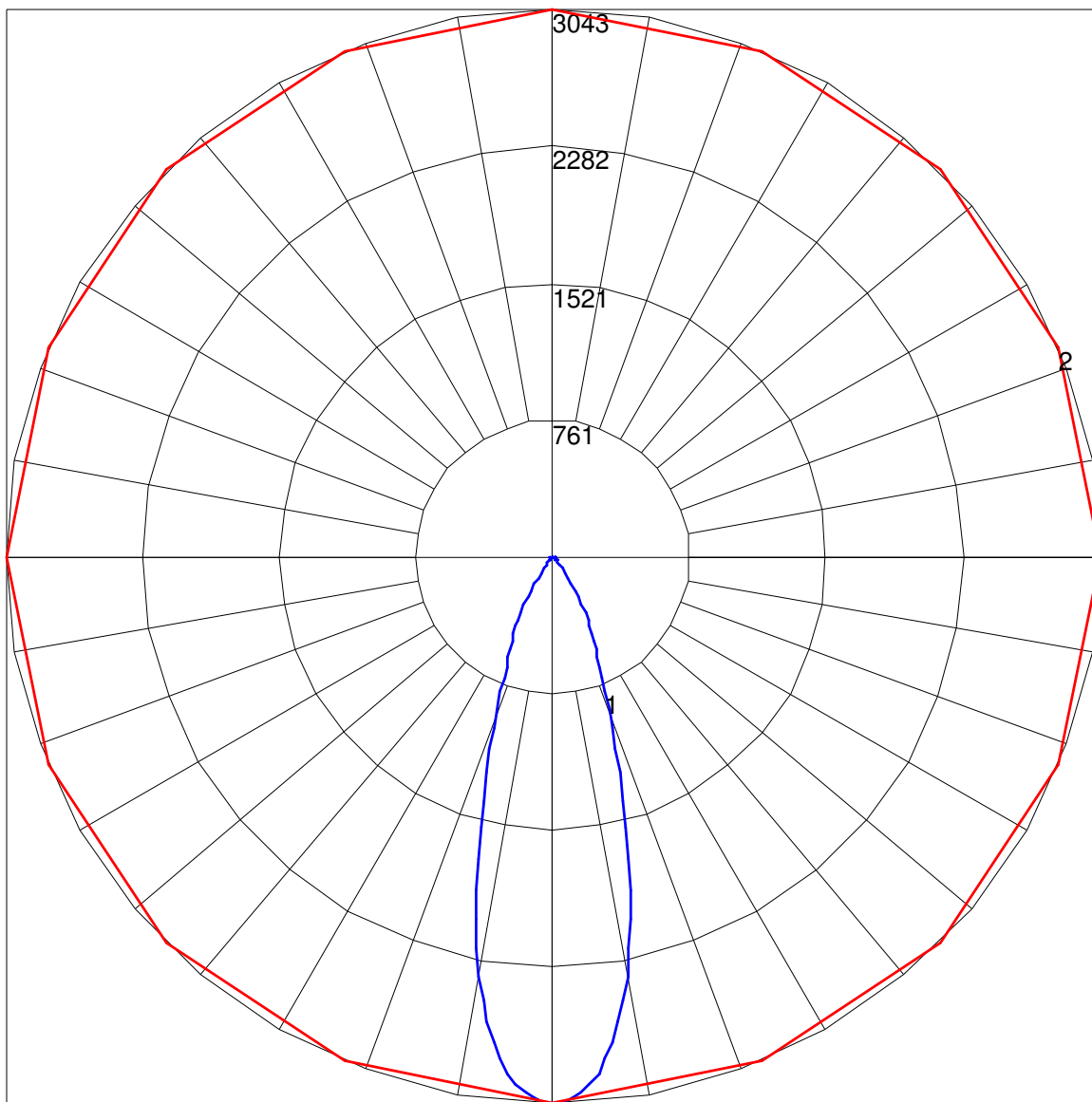
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	536.3	50.0
Downward House Side	536.3	50.0
Downward Total	1072.6	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1072.8	100.0

POLAR GRAPH



Maximum Candela = 3042.565 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

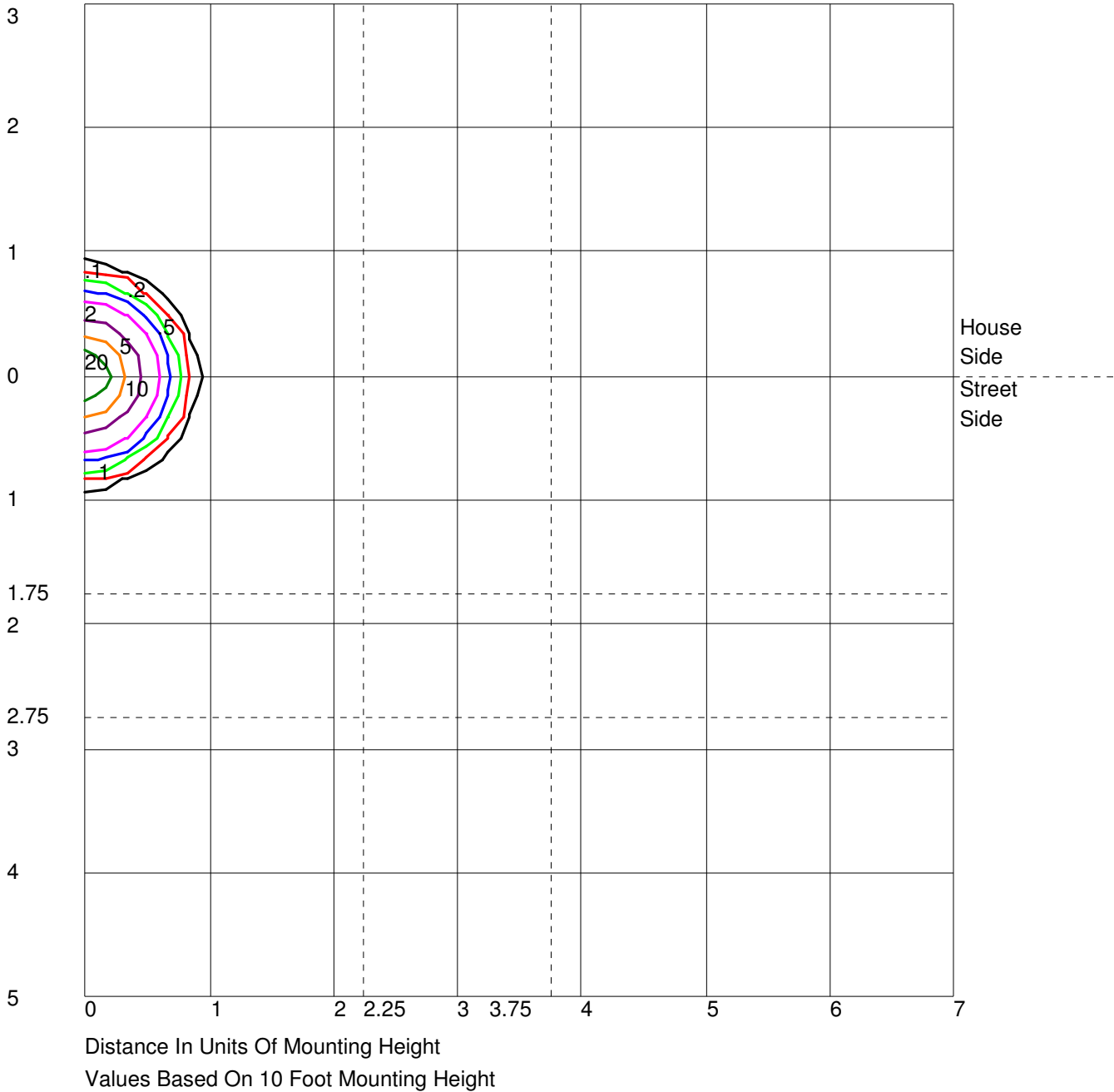


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