

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-927-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-L25-927-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	2536
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7192.55
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	7192.55
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.232 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.159 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-927-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1114.7	N.A.	44.0
FM - Front-Medium (30-60)	145.6	N.A.	5.7
FH - Front-High (60-80)	7.2	N.A.	0.3
FVH - Front-Very High (80-90)	0.4	N.A.	0.0
BL - Back-Low (0-30)	1114.7	N.A.	44.0
BM - Back-Medium (30-60)	145.6	N.A.	5.7
BH - Back-High (60-80)	7.2	N.A.	0.3
BVH - Back-Very High (80-90)	0.4	N.A.	0.0
UL - Uplight-Low (90-100)	0.2	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	2536.0	N.A.	100.0
BUG Rating	B3-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-927-XXX-DIM-UNV-N-XXX_.IES****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	7192.550	7192.550	7192.550	7192.550	7192.550
1	7184.013	7183.687	7182.295	7181.943	7184.563
2	7148.724	7146.628	7145.245	7133.737	7131.341
3	7082.834	7072.125	7073.928	7067.186	7070.613
4	6977.679	6971.788	6965.810	6958.528	6964.548
5	6831.567	6840.533	6822.773	6811.582	6826.362
6	6650.569	6656.813	6643.758	6638.760	6649.238
7	6447.679	6439.065	6430.176	6431.817	6439.984
8	6200.732	6188.184	6184.818	6183.066	6195.201
9	5913.127	5905.836	5896.767	5896.750	5919.311
10	5591.239	5582.994	5577.042	5576.587	5605.469
11	5230.453	5223.548	5227.387	5233.914	5259.860
12	4841.413	4837.402	4846.832	4858.168	4892.109
13	4434.070	4437.866	4453.119	4468.698	4500.011
14	4022.314	4029.545	4055.946	4075.475	4099.385
15	3618.750	3631.650	3665.917	3688.187	3710.989
16	3233.549	3253.516	3292.404	3322.704	3334.513
17	2886.385	2906.833	2952.609	2976.613	2983.733
18	2575.892	2584.326	2635.074	2659.585	2667.143
19	2281.804	2306.710	2359.038	2379.152	2386.418
20	2035.423	2061.171	2107.350	2136.679	2143.369
21	1827.200	1849.272	1894.850	1917.635	1915.350
22	1652.497	1674.758	1714.281	1732.944	1729.302
23	1509.709	1526.104	1561.968	1578.483	1572.248
24	1387.497	1401.256	1435.832	1447.693	1441.191
25	1280.925	1295.465	1326.778	1336.122	1327.680
26	1185.312	1199.775	1227.661	1235.536	1228.185
27	1096.586	1107.313	1133.739	1140.464	1134.117
28	1006.950	1014.972	1038.177	1043.932	1039.655
29	916.207	923.077	939.412	946.609	944.909
30	821.701	824.364	838.706	846.547	844.426
31	721.914	723.511	733.946	740.971	741.083
32	623.947	623.020	629.659	636.933	637.096
33	524.289	522.631	528.368	534.758	534.037
34	428.761	428.092	431.870	437.410	437.573
35	345.275	340.543	344.244	346.735	345.412
36	265.266	264.167	266.117	267.508	264.940
37	199.892	200.322	198.278	198.166	201.000
38	148.268	150.475	145.674	146.817	147.375
39	108.710	107.628	108.358	106.366	105.945
40	83.220	79.416	79.553	79.433	79.416
41	60.573	60.633	61.707	62.128	62.840
42	48.343	48.885	50.551	51.495	52.672
43	41.602	42.108	43.929	45.192	46.136
44	38.123	38.501	40.270	41.593	42.194
45	36.577	36.835	38.570	39.626	40.116
46	36.071	36.397	37.909	38.725	39.171
47	36.234	36.552	37.814	38.467	38.914
48	36.672	36.887	37.960	38.433	38.914
49	36.930	37.162	38.063	38.390	38.810
50	36.955	37.136	37.943	38.192	38.510
51	36.552	36.689	37.445	37.634	37.857
52	35.452	35.624	36.285	36.380	36.517

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-927-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	33.803	33.949	34.576	34.568	34.654
54	31.699	31.871	32.404	32.318	32.421
55	29.346	29.449	29.930	29.801	29.861
56	26.795	26.847	27.182	27.096	27.113
57	24.082	24.142	24.348	24.296	24.262
58	21.488	21.531	21.634	21.591	21.557
59	19.083	19.066	19.092	19.040	19.023
60	16.893	16.859	16.816	16.807	16.799
61	15.004	14.944	14.892	14.858	14.875
62	13.389	13.303	13.260	13.226	13.243
63	12.049	11.981	11.895	11.869	11.903
64	10.916	10.864	10.795	10.753	10.813
65	10.014	9.962	9.902	9.842	9.911
66	9.207	9.181	9.112	9.069	9.147
67	8.537	8.511	8.434	8.408	8.485
68	7.910	7.893	7.833	7.790	7.884
69	7.343	7.334	7.257	7.223	7.309
70	6.819	6.802	6.725	6.673	6.742
71	6.295	6.295	6.192	6.132	6.175
72	5.797	5.789	5.677	5.600	5.651
73	5.290	5.282	5.153	5.058	5.101
74	4.758	4.749	4.612	4.500	4.543
75	4.200	4.157	4.036	3.908	3.942
76	3.556	3.504	3.358	3.255	3.289
77	2.826	2.791	2.602	2.525	2.525
78	1.975	1.958	1.769	1.666	1.683
79	1.280	1.297	1.245	1.254	1.254
80	1.159	1.159	1.142	1.142	1.142
81	1.082	1.082	1.082	1.091	1.082
82	1.031	1.022	1.022	1.031	1.031
83	0.962	0.953	0.953	0.953	0.962
84	0.885	0.876	0.876	0.885	0.885
85	0.799	0.799	0.799	0.799	0.799
86	0.704	0.696	0.696	0.696	0.704
87	0.584	0.584	0.584	0.584	0.584
88	0.455	0.455	0.455	0.447	0.447
89	0.318	0.309	0.309	0.309	0.309
90	0.232	0.215	0.215	0.206	0.198
91	0.215	0.206	0.198	0.189	0.189
92	0.215	0.206	0.198	0.198	0.189
93	0.215	0.206	0.206	0.198	0.198
94	0.215	0.206	0.206	0.198	0.198
95	0.215	0.206	0.206	0.198	0.206
96	0.223	0.206	0.206	0.198	0.198
97	0.223	0.215	0.206	0.206	0.206
98	0.223	0.215	0.215	0.215	0.215
99	0.240	0.215	0.215	0.215	0.215
100	0.240	0.223	0.215	0.215	0.215
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

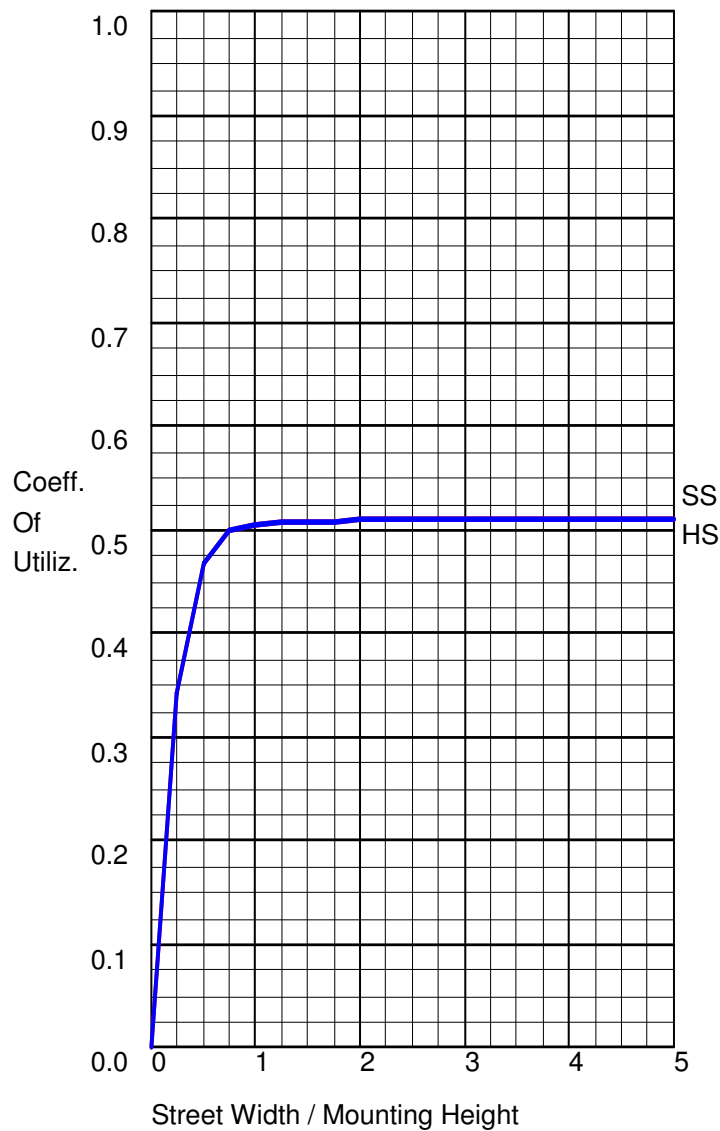
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-927-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L25-927-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

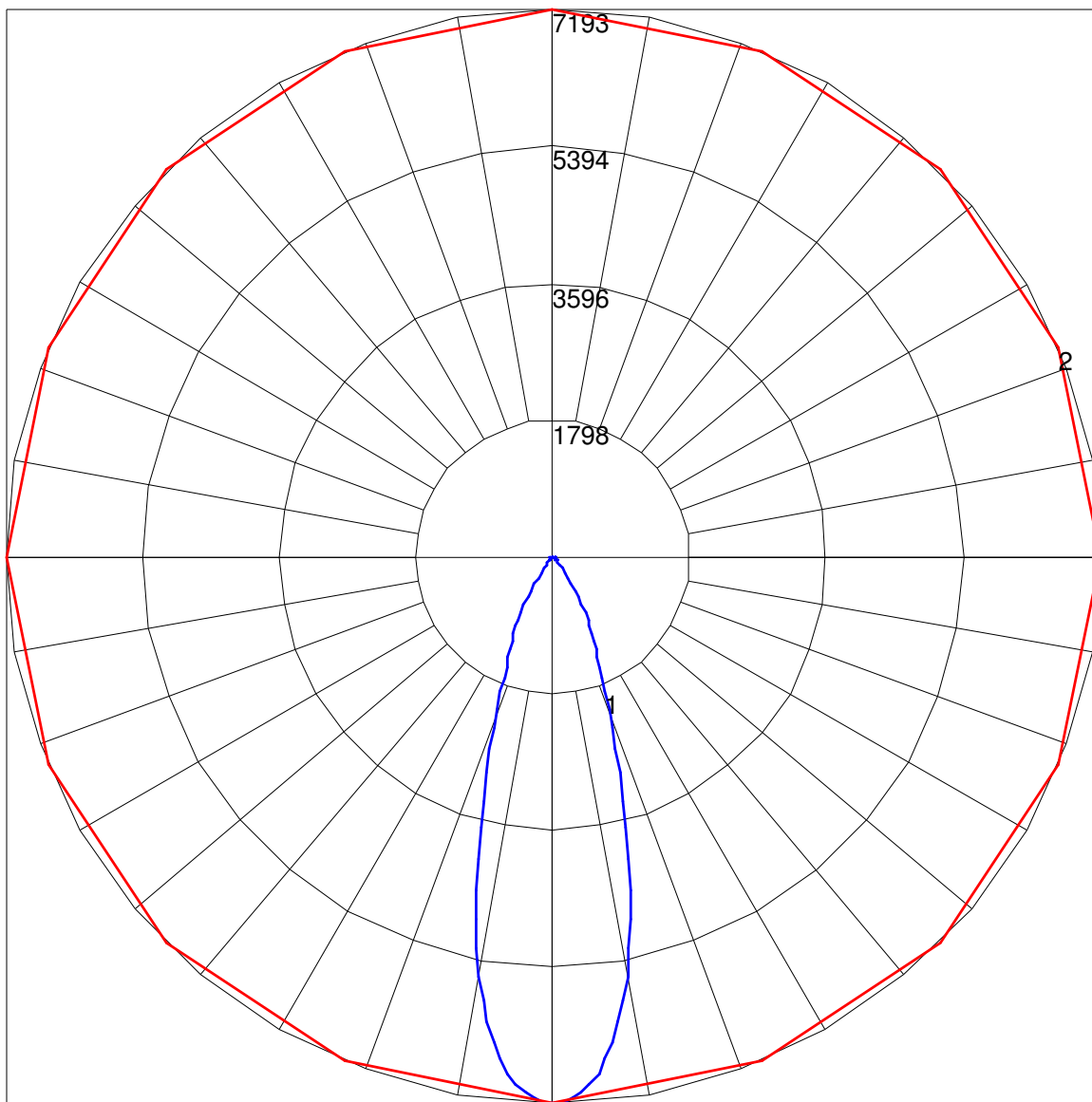
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1267.9	50.0
Downward House Side	1267.9	50.0
Downward Total	2535.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2536.0	100.0

POLAR GRAPH



Maximum Candela = 7192.55 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

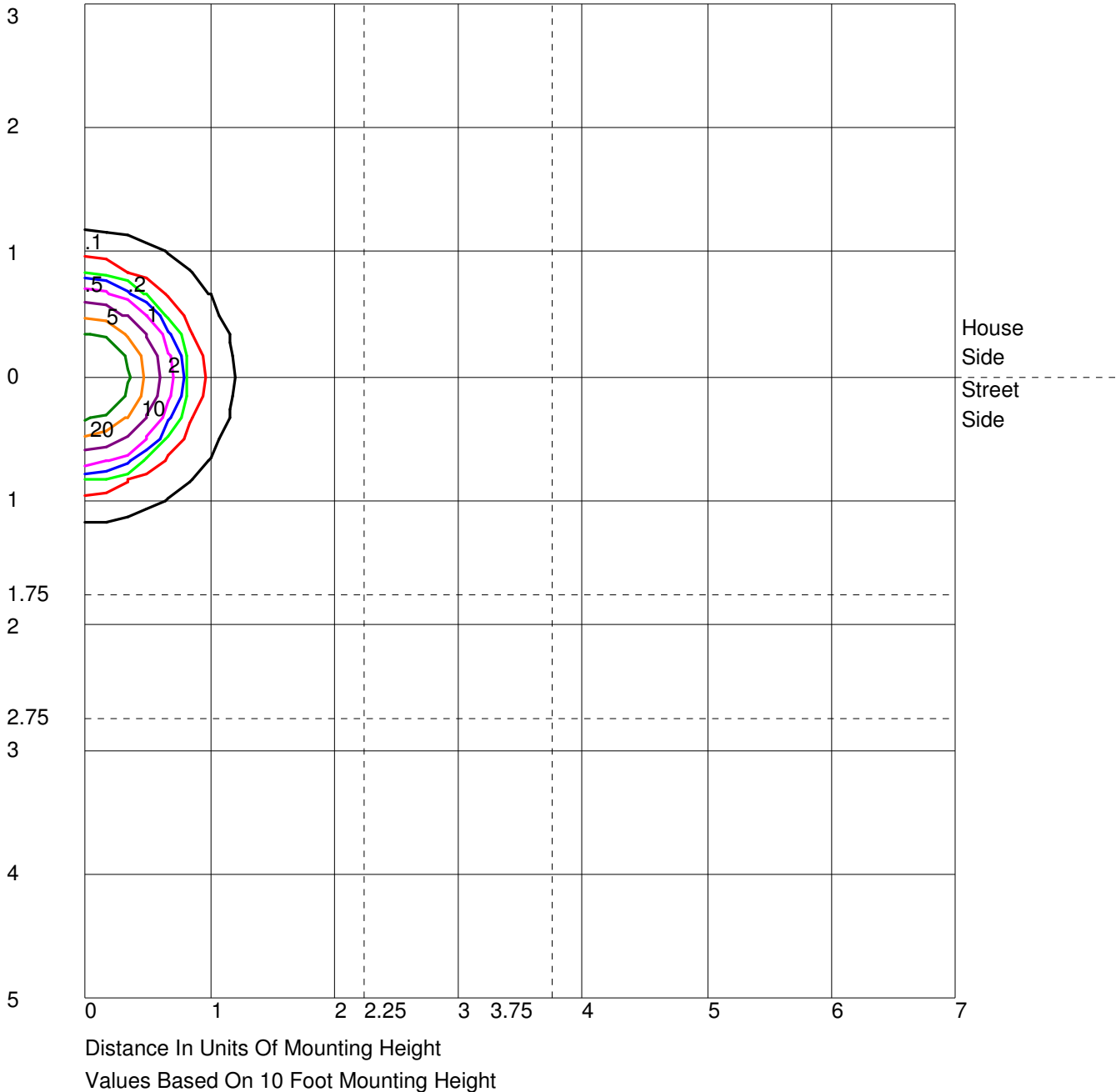


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