

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-835-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-L20-835-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	2173
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6162.725
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	6162.725
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.199 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.993 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	955.1	N.A.	44.0
FM - Front-Medium (30-60)	124.7	N.A.	5.7
FH - Front-High (60-80)	6.2	N.A.	0.3
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	955.1	N.A.	44.0
BM - Back-Medium (30-60)	124.7	N.A.	5.7
BH - Back-High (60-80)	6.2	N.A.	0.3
BVH - Back-Very High (80-90)	0.3	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	2172.8	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	6162.725	6162.725	6162.725	6162.725	6162.725
1	6155.410	6155.131	6153.938	6153.637	6155.881
2	6125.174	6123.378	6122.193	6112.333	6110.280
3	6068.718	6059.542	6061.087	6055.311	6058.247
4	5978.619	5973.571	5968.450	5962.210	5967.368
5	5853.427	5861.110	5845.892	5836.304	5848.968
6	5698.344	5703.694	5692.509	5688.226	5697.204
7	5524.504	5517.124	5509.508	5510.913	5517.911
8	5312.915	5302.164	5299.279	5297.778	5308.176
9	5066.489	5060.242	5052.471	5052.456	5071.787
10	4790.688	4783.624	4778.524	4778.134	4802.882
11	4481.560	4475.644	4478.933	4484.526	4506.756
12	4148.222	4144.786	4152.865	4162.579	4191.660
13	3799.203	3802.455	3815.524	3828.873	3855.702
14	3446.401	3452.597	3475.218	3491.951	3512.438
15	3100.620	3111.672	3141.033	3160.114	3179.651
16	2770.571	2787.680	2821.000	2846.961	2857.079
17	2473.114	2490.635	2529.856	2550.423	2556.524
18	2207.078	2214.304	2257.786	2278.787	2285.263
19	1955.096	1976.436	2021.272	2038.506	2044.732
20	1743.992	1766.054	1805.621	1830.751	1836.483
21	1565.583	1584.494	1623.547	1643.069	1641.112
22	1415.894	1434.967	1468.832	1484.822	1481.702
23	1293.549	1307.597	1338.327	1352.477	1347.135
24	1188.836	1200.625	1230.251	1240.413	1234.842
25	1097.523	1109.981	1136.811	1144.817	1137.583
26	1015.600	1027.992	1051.885	1058.633	1052.334
27	939.578	948.769	971.411	977.173	971.735
28	862.776	869.649	889.532	894.462	890.797
29	785.025	790.912	804.908	811.074	809.617
30	704.050	706.332	718.621	725.339	723.521
31	618.551	619.919	628.860	634.879	634.975
32	534.611	533.816	539.504	545.737	545.877
33	449.222	447.801	452.717	458.192	457.574
34	367.372	366.798	370.035	374.782	374.922
35	295.839	291.784	294.955	297.089	295.956
36	227.286	226.344	228.014	229.206	227.006
37	171.272	171.640	169.888	169.793	172.221
38	127.039	128.930	124.817	125.796	126.274
39	93.145	92.218	92.844	91.136	90.776
40	71.305	68.045	68.163	68.060	68.045
41	51.900	51.952	52.872	53.232	53.843
42	41.422	41.885	43.313	44.122	45.130
43	35.645	36.079	37.639	38.721	39.530
44	32.665	32.989	34.505	35.638	36.153
45	31.340	31.561	33.048	33.953	34.372
46	30.906	31.186	32.481	33.180	33.563
47	31.046	31.318	32.400	32.959	33.342
48	31.421	31.605	32.525	32.930	33.342
49	31.642	31.841	32.613	32.893	33.254
50	31.664	31.819	32.510	32.724	32.996
51	31.318	31.436	32.084	32.245	32.437
52	30.376	30.524	31.090	31.171	31.289

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53	28.964	29.089	29.626	29.618	29.692
54	27.161	27.308	27.764	27.690	27.779
55	25.144	25.233	25.645	25.534	25.586
56	22.959	23.003	23.290	23.216	23.231
57	20.634	20.685	20.862	20.818	20.788
58	18.411	18.448	18.536	18.500	18.470
59	16.351	16.336	16.358	16.314	16.299
60	14.474	14.445	14.408	14.401	14.393
61	12.856	12.804	12.760	12.730	12.745
62	11.472	11.398	11.362	11.332	11.347
63	10.324	10.265	10.192	10.170	10.199
64	9.353	9.309	9.250	9.213	9.264
65	8.580	8.536	8.484	8.433	8.492
66	7.888	7.866	7.807	7.771	7.837
67	7.314	7.292	7.226	7.204	7.270
68	6.777	6.763	6.711	6.674	6.755
69	6.292	6.284	6.218	6.189	6.262
70	5.843	5.828	5.762	5.718	5.777
71	5.394	5.394	5.306	5.254	5.291
72	4.967	4.960	4.864	4.798	4.842
73	4.533	4.526	4.415	4.334	4.371
74	4.077	4.069	3.952	3.856	3.893
75	3.598	3.562	3.459	3.348	3.378
76	3.046	3.002	2.877	2.789	2.818
77	2.421	2.392	2.230	2.163	2.163
78	1.692	1.678	1.516	1.428	1.442
79	1.096	1.111	1.067	1.074	1.074
80	0.993	0.993	0.979	0.979	0.979
81	0.927	0.927	0.927	0.935	0.927
82	0.883	0.876	0.876	0.883	0.883
83	0.824	0.817	0.817	0.817	0.824
84	0.758	0.751	0.751	0.758	0.758
85	0.684	0.684	0.684	0.684	0.684
86	0.603	0.596	0.596	0.596	0.603
87	0.500	0.500	0.500	0.500	0.500
88	0.390	0.390	0.390	0.383	0.383
89	0.272	0.265	0.265	0.265	0.265
90	0.199	0.184	0.184	0.177	0.169
91	0.184	0.177	0.169	0.162	0.162
92	0.184	0.177	0.169	0.169	0.162
93	0.184	0.177	0.177	0.169	0.169
94	0.184	0.177	0.177	0.169	0.169
95	0.184	0.177	0.177	0.169	0.177
96	0.191	0.177	0.177	0.169	0.169
97	0.191	0.184	0.177	0.177	0.177
98	0.191	0.184	0.184	0.184	0.184
99	0.206	0.184	0.184	0.184	0.184
100	0.206	0.191	0.184	0.184	0.184
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

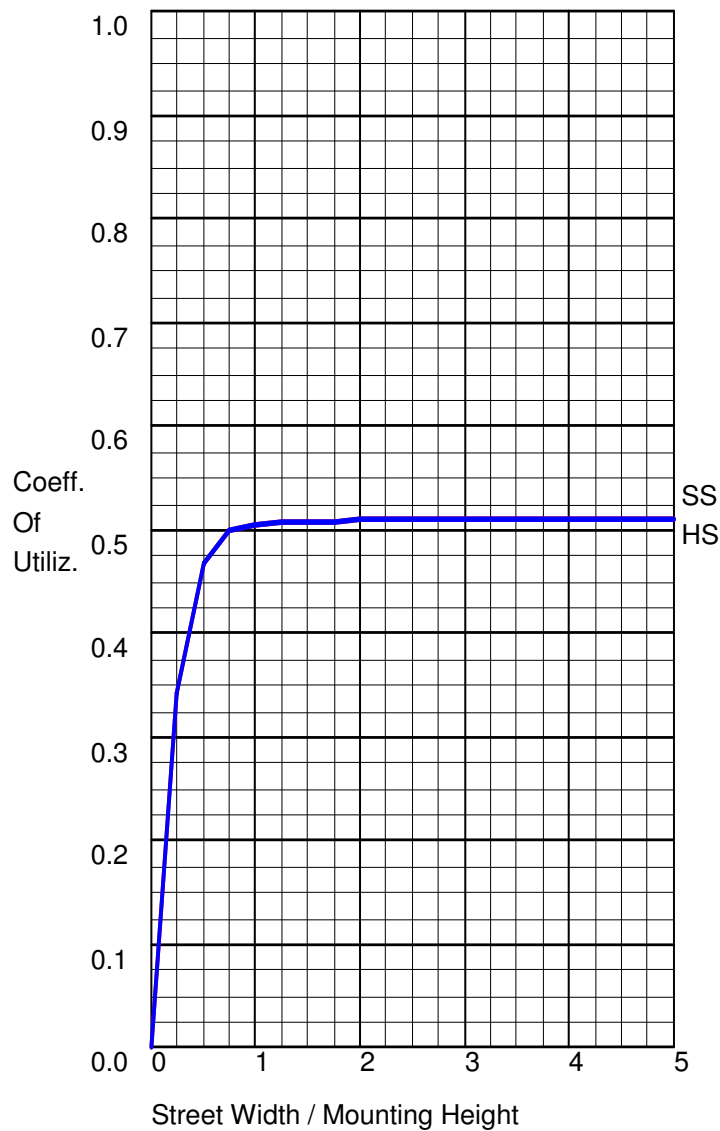
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109	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	0.000
112	0.000	0.000	0.000	0.000	0.000
113	0.000	0.000	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
116	0.000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

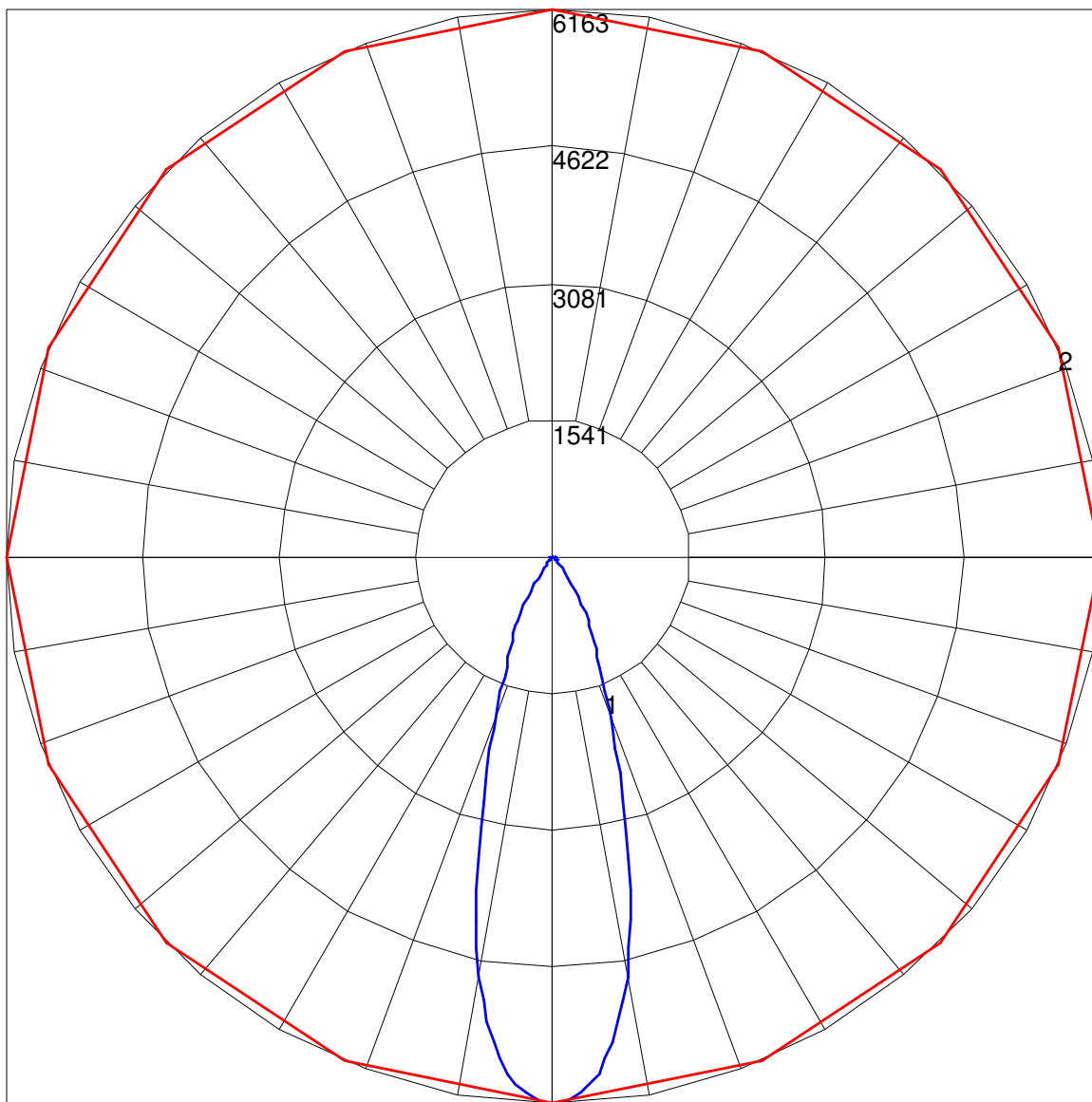
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1086.4	50.0
Downward House Side	1086.4	50.0
Downward Total	2172.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2173.0	100.0

POLAR GRAPH



Maximum Candela = 6162.725 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

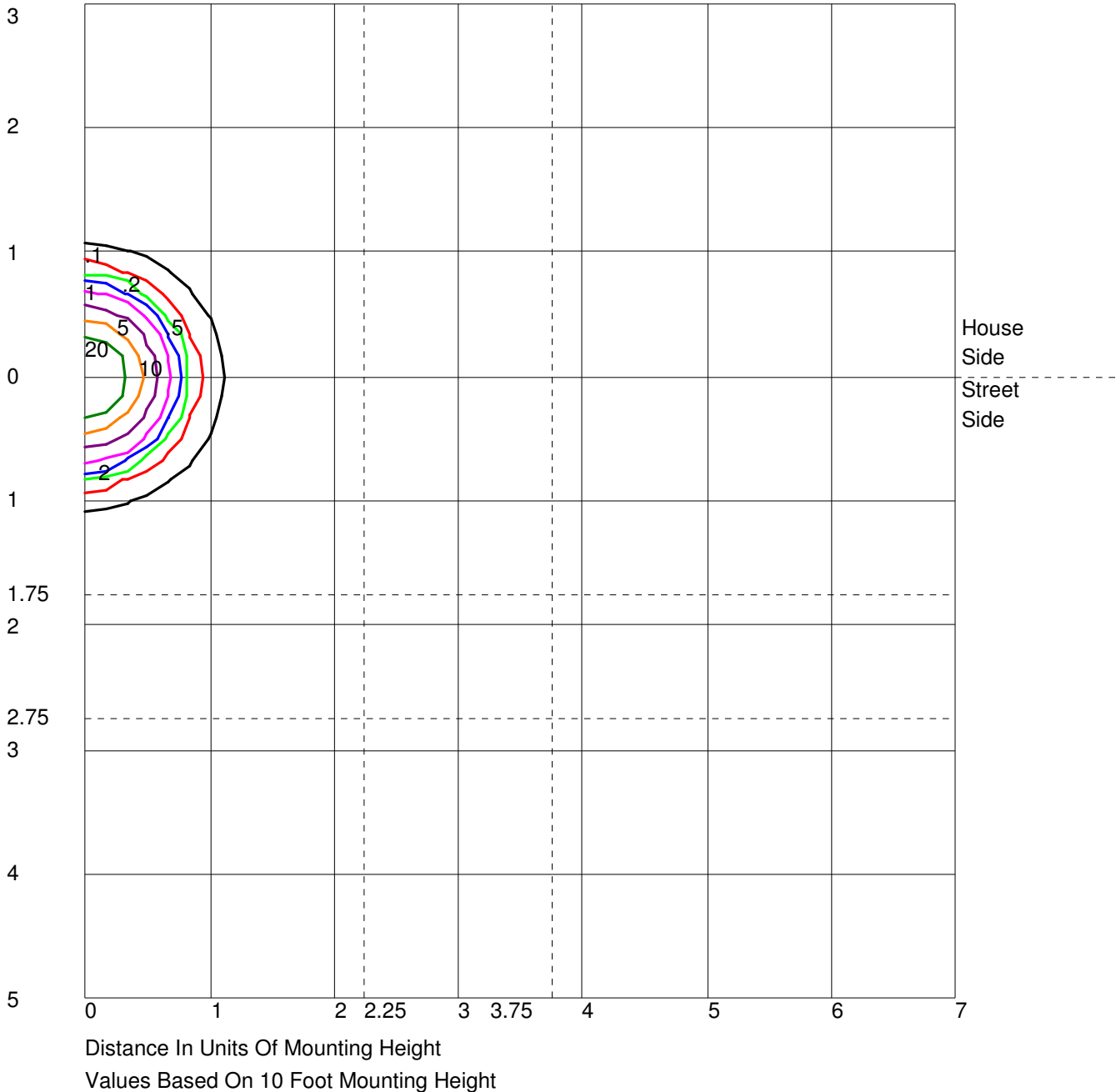


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