

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-850-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-L20-850-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	2260
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10131.142
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	10131.142
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.104 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.461 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-850-XXX-DIM-UNV-S-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1026.0	N.A.	45.4
FM - Front-Medium (30-60)	100.8	N.A.	4.5
FH - Front-High (60-80)	3.0	N.A.	0.1
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	1026.0	N.A.	45.4
BM - Back-Medium (30-60)	100.8	N.A.	4.5
BH - Back-High (60-80)	3.0	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	2260.1	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	10131.142	10131.142	10131.142	10131.142	10131.142
1	10112.612	10108.288	10109.157	10105.361	10109.246
2	9985.539	9983.793	9977.076	9973.911	9984.759
3	9765.057	9757.323	9751.371	9745.264	9769.589
4	9435.252	9432.719	9422.562	9419.538	9449.473
5	8994.103	8986.145	8983.285	8979.481	9017.239
6	8440.324	8437.389	8440.049	8445.778	8477.080
7	7789.466	7792.490	7811.154	7828.050	7840.628
8	7065.216	7078.375	7114.454	7145.028	7136.409
9	6316.789	6336.471	6392.856	6433.305	6400.532
10	5588.022	5611.894	5682.099	5731.590	5676.014
11	4894.353	4922.304	5003.833	5054.021	4985.065
12	4253.942	4291.500	4370.977	4430.305	4351.808
13	3696.946	3728.590	3812.265	3875.285	3796.826
14	3214.739	3241.100	3319.664	3380.530	3307.947
15	2799.342	2825.109	2903.108	2958.809	2886.494
16	2451.987	2479.367	2536.094	2585.762	2522.861
17	2175.157	2177.372	2233.608	2273.878	2225.435
18	1917.541	1934.808	1978.243	2010.816	1973.919
19	1713.702	1723.294	1770.236	1799.131	1772.064
20	1543.380	1556.196	1588.368	1612.626	1585.678
21	1405.243	1412.963	1440.335	1460.343	1434.666
22	1287.970	1295.341	1316.724	1330.090	1308.328
23	1189.933	1193.789	1210.254	1221.406	1201.813
24	1104.534	1106.592	1119.646	1125.828	1108.932
25	1026.981	1029.529	1037.806	1039.663	1025.450
26	957.051	956.865	960.171	958.915	946.522
27	884.869	881.229	882.521	880.181	868.865
28	807.792	803.542	802.242	800.874	792.650
29	726.657	722.682	721.226	723.596	717.288
30	640.374	638.962	637.811	642.707	639.133
31	553.229	553.571	553.883	561.796	559.663
32	469.063	470.668	471.419	481.798	482.734
33	386.889	389.980	392.699	403.197	407.893
34	310.718	316.015	319.544	330.741	338.067
35	245.669	250.179	251.665	262.245	272.640
36	184.670	191.126	195.755	202.747	214.226
37	137.037	145.299	147.223	153.405	166.006
38	100.838	106.582	108.164	115.460	125.052
39	76.520	77.427	80.139	84.924	90.630
40	55.308	57.715	61.453	64.922	68.050
41	41.734	43.732	46.273	49.156	52.351
42	32.483	34.155	36.704	38.933	41.466
43	26.294	27.476	29.846	31.807	33.650
44	22.000	22.854	24.905	26.651	27.446
45	18.879	19.526	21.309	22.654	23.010
46	16.613	17.089	18.642	19.615	19.838
47	14.867	15.261	16.583	17.260	17.378
48	13.485	13.864	14.949	15.432	15.499
49	12.400	12.713	13.686	13.990	13.998
50	11.516	11.791	12.631	12.831	12.794
51	10.736	10.996	11.747	11.888	11.814
52	10.023	10.246	10.907	10.952	10.796

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-850-XXX-DIM-UNV-S-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	9.369	9.570	10.142	10.097	9.889
54	8.797	8.990	9.466	9.339	9.102
55	8.299	8.463	8.864	8.686	8.396
56	7.853	7.972	8.329	8.121	7.772
57	7.430	7.526	7.809	7.608	7.244
58	7.029	7.110	7.348	7.148	6.806
59	6.657	6.717	6.895	6.717	6.397
60	6.286	6.338	6.479	6.301	5.988
61	5.914	5.959	6.085	5.914	5.617
62	5.543	5.580	5.691	5.520	5.231
63	5.171	5.216	5.305	5.134	4.859
64	4.807	4.844	4.933	4.755	4.488
65	4.450	4.495	4.562	4.391	4.138
66	4.101	4.138	4.205	4.042	3.782
67	3.767	3.812	3.871	3.722	3.462
68	3.462	3.492	3.559	3.395	3.150
69	3.165	3.202	3.262	3.106	2.853
70	2.883	2.920	2.987	2.816	2.563
71	2.615	2.645	2.712	2.541	2.288
72	2.355	2.385	2.437	2.274	2.028
73	2.095	2.125	2.170	1.999	1.783
74	1.828	1.857	1.887	1.739	1.516
75	1.553	1.575	1.583	1.464	1.241
76	1.285	1.300	1.263	1.189	0.988
77	1.048	1.055	0.988	0.921	0.758
78	0.810	0.788	0.684	0.632	0.557
79	0.505	0.520	0.498	0.490	0.468
80	0.461	0.461	0.461	0.453	0.438
81	0.431	0.431	0.438	0.431	0.409
82	0.409	0.409	0.416	0.409	0.386
83	0.379	0.379	0.386	0.386	0.364
84	0.349	0.349	0.349	0.342	0.334
85	0.305	0.312	0.319	0.312	0.297
86	0.267	0.267	0.267	0.267	0.260
87	0.223	0.223	0.223	0.223	0.215
88	0.171	0.171	0.178	0.171	0.163
89	0.126	0.119	0.126	0.119	0.119
90	0.104	0.089	0.097	0.089	0.089
91	0.097	0.089	0.089	0.089	0.082
92	0.089	0.089	0.089	0.089	0.082
93	0.097	0.089	0.089	0.089	0.082
94	0.097	0.089	0.089	0.089	0.082
95	0.097	0.089	0.089	0.089	0.082
96	0.097	0.097	0.089	0.089	0.082
97	0.097	0.097	0.089	0.089	0.089
98	0.097	0.097	0.089	0.089	0.082
99	0.097	0.097	0.089	0.097	0.082
100	0.097	0.097	0.089	0.097	0.089
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

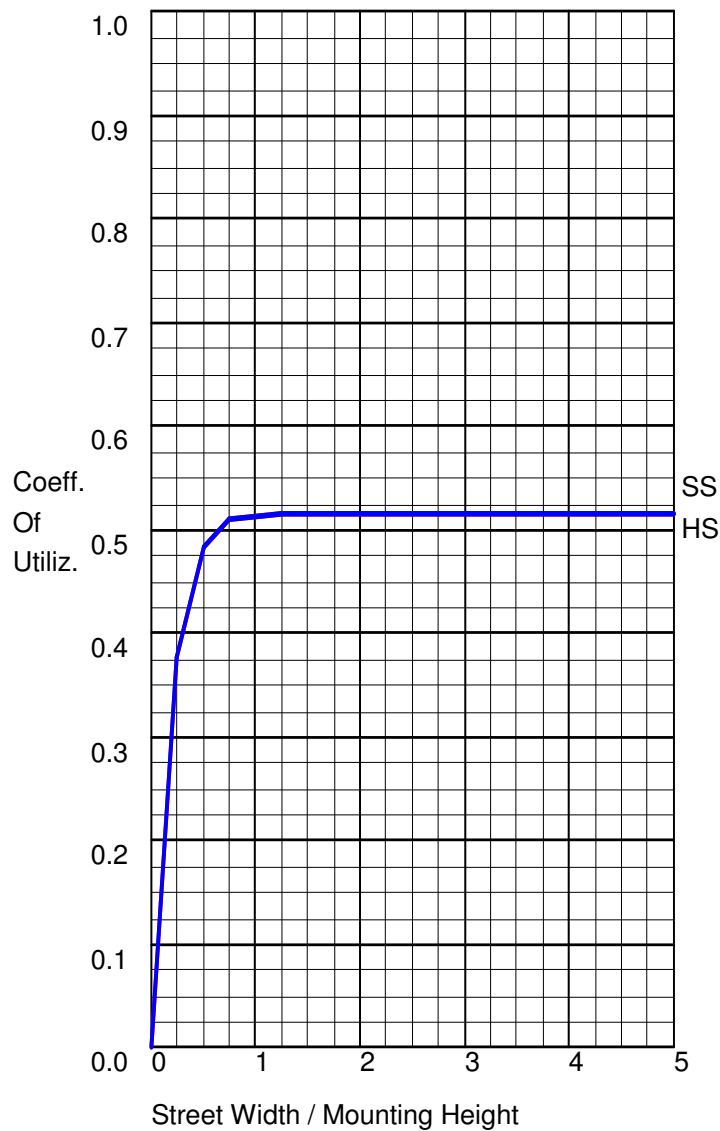
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-850-XXX-DIM-UNV-S-XXX_IES****CANDELA TABULATION - (Cont.)**

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-L20-850-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

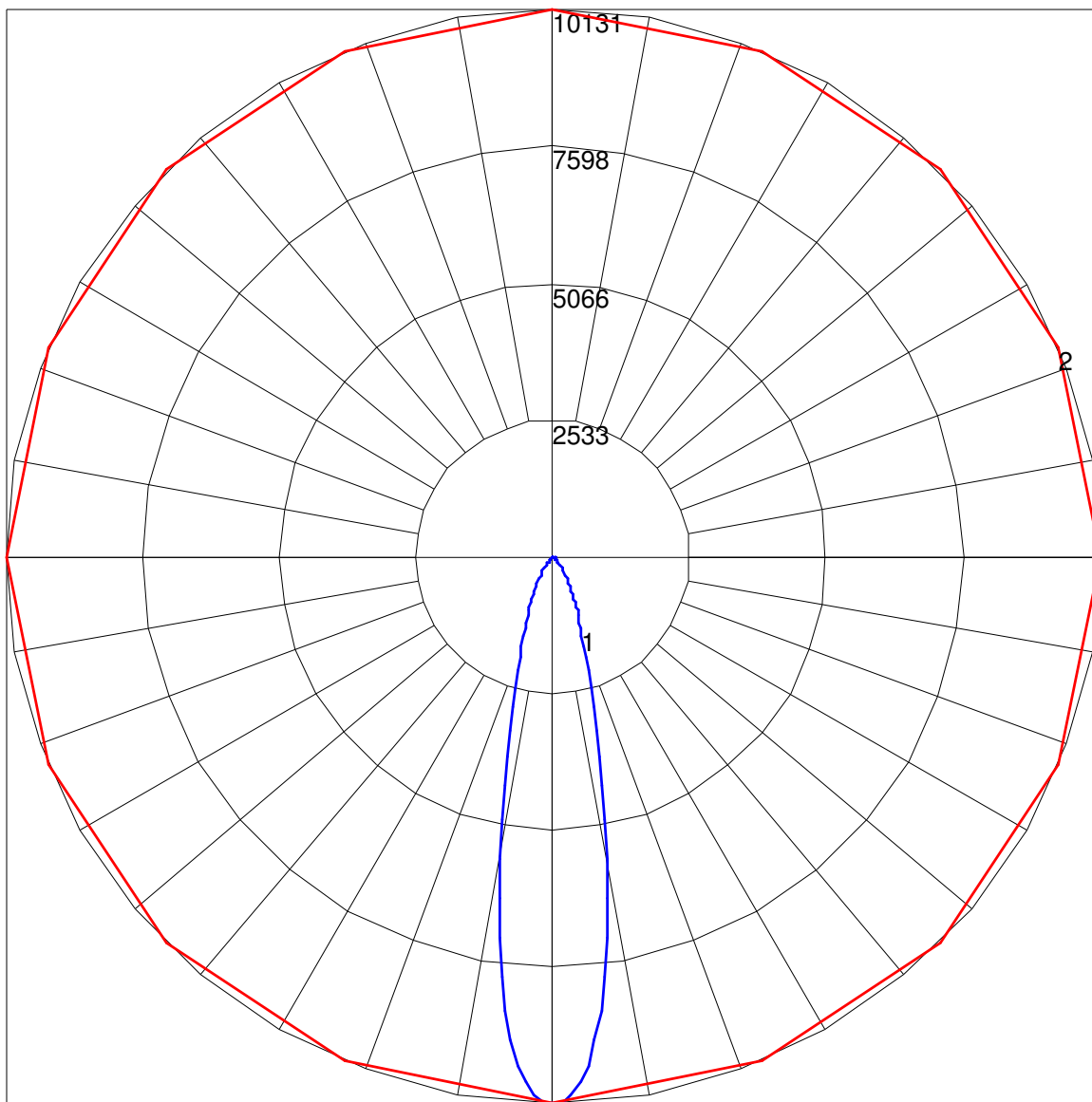
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1130.0	50.0
Downward House Side	1130.0	50.0
Downward Total	2260.0	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2260.2	100.0

POLAR GRAPH



Maximum Candela = 10131.142 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

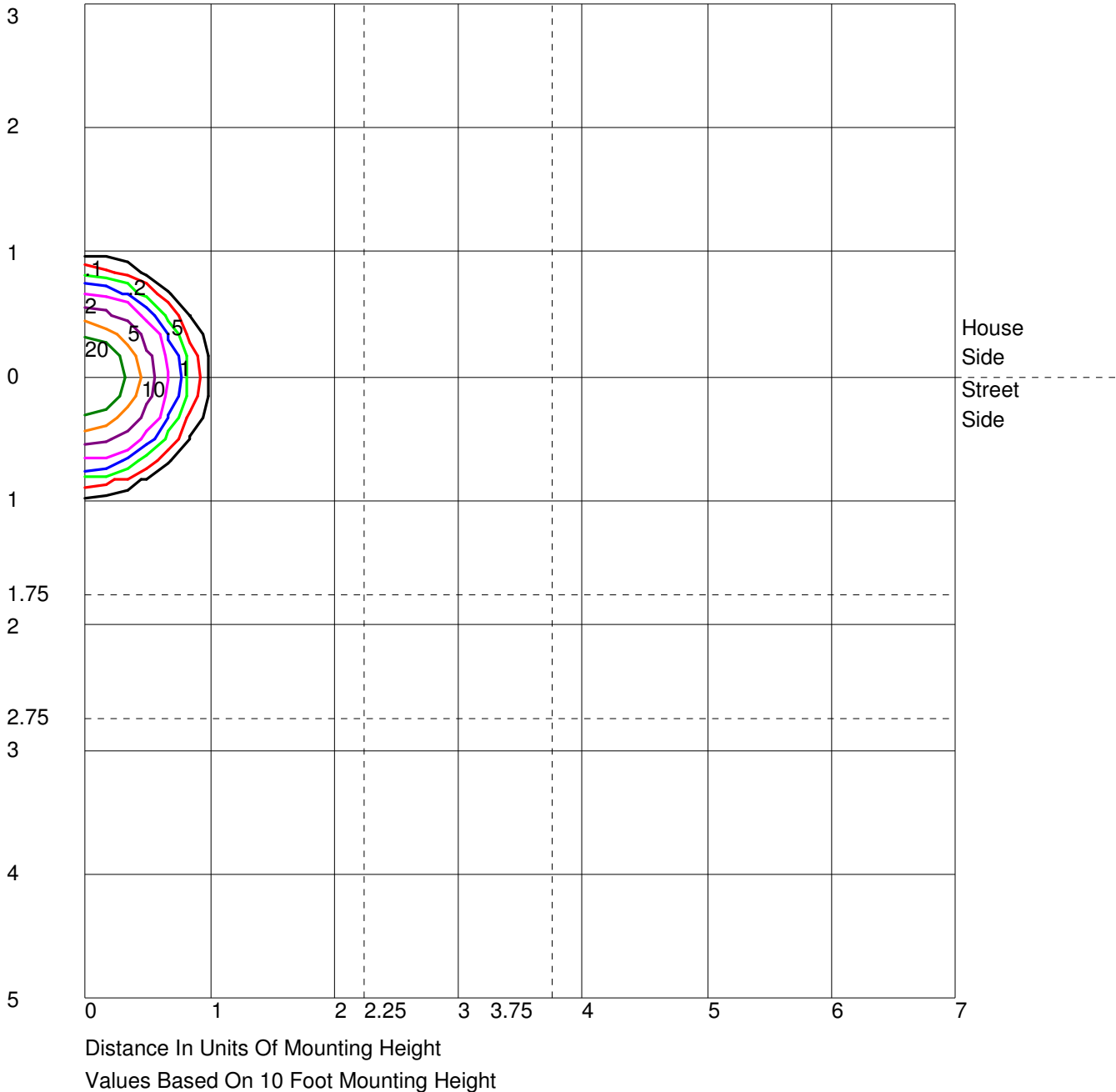


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