

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-840-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-L20-840-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	2306
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10335.81
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	10335.81
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.106 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.47 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-840-XXX-DIM-UNV-S-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1046.7	N.A.	45.4
FM - Front-Medium (30-60)	102.8	N.A.	4.5
FH - Front-High (60-80)	3.1	N.A.	0.1
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	1046.7	N.A.	45.4
BM - Back-Medium (30-60)	102.8	N.A.	4.5
BH - Back-High (60-80)	3.1	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	2305.7	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	10335.810	10335.810	10335.810	10335.810	10335.810
1	10316.906	10312.494	10313.381	10309.508	10313.472
2	10187.266	10185.484	10178.632	10175.403	10186.470
3	9962.330	9954.439	9948.367	9942.137	9966.953
4	9625.862	9623.277	9612.915	9609.830	9640.370
5	9175.801	9167.682	9164.764	9160.883	9199.405
6	8610.834	8607.840	8610.554	8616.398	8648.333
7	7946.828	7949.913	7968.954	7986.191	7999.024
8	7207.947	7221.371	7258.179	7289.371	7280.578
9	6444.400	6464.480	6522.004	6563.270	6529.834
10	5700.910	5725.265	5796.888	5847.378	5790.680
11	4993.228	5021.744	5104.919	5156.122	5085.772
12	4339.880	4378.196	4459.279	4519.806	4439.723
13	3771.631	3803.914	3889.280	3953.573	3873.529
14	3279.683	3306.577	3386.727	3448.823	3374.774
15	2855.894	2882.181	2961.756	3018.583	2944.807
16	2501.522	2529.454	2587.328	2638.000	2573.828
17	2219.100	2221.359	2278.731	2319.815	2270.393
18	1956.279	1973.895	2018.208	2051.438	2013.796
19	1748.322	1758.108	1805.998	1835.477	1807.863
20	1574.559	1587.634	1620.456	1645.204	1617.712
21	1433.632	1441.508	1469.432	1489.845	1463.649
22	1313.990	1321.509	1343.324	1356.960	1334.759
23	1213.972	1217.906	1234.703	1246.080	1226.092
24	1126.847	1128.947	1142.265	1148.572	1131.335
25	1047.728	1050.327	1058.772	1060.667	1046.166
26	976.385	976.195	979.568	978.287	965.644
27	902.745	899.031	900.350	897.962	886.418
28	824.111	819.775	818.448	817.054	808.663
29	741.337	737.282	735.796	738.214	731.779
30	653.311	651.871	650.696	655.691	652.045
31	564.405	564.754	565.072	573.145	570.970
32	478.539	480.177	480.942	491.531	492.486
33	394.705	397.858	400.632	411.343	416.133
34	316.995	322.399	326.000	337.423	344.897
35	250.632	255.233	256.749	267.543	278.147
36	188.400	194.987	199.710	206.842	218.554
37	139.805	148.234	150.197	156.504	169.359
38	102.875	108.735	110.349	117.793	127.579
39	78.066	78.991	81.758	86.639	92.461
40	56.425	58.881	62.694	66.234	69.425
41	42.577	44.616	47.208	50.149	53.409
42	33.140	34.845	37.445	39.719	42.304
43	26.826	28.031	30.449	32.450	34.330
44	22.444	23.316	25.408	27.189	28.000
45	19.261	19.920	21.739	23.111	23.475
46	16.949	17.434	19.018	20.011	20.239
47	15.168	15.569	16.919	17.608	17.730
48	13.758	14.144	15.251	15.744	15.812
49	12.651	12.969	13.962	14.273	14.281
50	11.749	12.029	12.886	13.091	13.053
51	10.953	11.218	11.984	12.128	12.052
52	10.225	10.453	11.127	11.173	11.014

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-840-XXX-DIM-UNV-S-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	9.558	9.763	10.347	10.301	10.089
54	8.975	9.172	9.657	9.528	9.285
55	8.467	8.634	9.043	8.861	8.565
56	8.012	8.133	8.497	8.285	7.929
57	7.580	7.679	7.967	7.762	7.390
58	7.171	7.254	7.497	7.292	6.943
59	6.792	6.852	7.034	6.852	6.526
60	6.413	6.466	6.610	6.428	6.109
61	6.034	6.079	6.208	6.034	5.730
62	5.655	5.693	5.806	5.632	5.336
63	5.276	5.321	5.412	5.238	4.957
64	4.904	4.942	5.033	4.851	4.578
65	4.540	4.586	4.654	4.480	4.222
66	4.184	4.222	4.290	4.124	3.858
67	3.843	3.889	3.949	3.798	3.532
68	3.532	3.563	3.631	3.464	3.214
69	3.229	3.267	3.328	3.168	2.911
70	2.941	2.979	3.047	2.873	2.615
71	2.668	2.698	2.767	2.592	2.335
72	2.403	2.433	2.486	2.319	2.069
73	2.138	2.168	2.213	2.039	1.819
74	1.865	1.895	1.925	1.774	1.546
75	1.584	1.607	1.615	1.493	1.266
76	1.311	1.326	1.289	1.213	1.008
77	1.069	1.076	1.008	0.940	0.773
78	0.826	0.803	0.697	0.644	0.568
79	0.515	0.531	0.508	0.500	0.478
80	0.470	0.470	0.470	0.462	0.447
81	0.440	0.440	0.447	0.440	0.417
82	0.417	0.417	0.424	0.417	0.394
83	0.387	0.387	0.394	0.394	0.371
84	0.356	0.356	0.356	0.349	0.341
85	0.311	0.318	0.326	0.318	0.303
86	0.273	0.273	0.273	0.273	0.265
87	0.227	0.227	0.227	0.227	0.220
88	0.174	0.174	0.182	0.174	0.167
89	0.129	0.121	0.129	0.121	0.121
90	0.106	0.091	0.099	0.091	0.091
91	0.099	0.091	0.091	0.091	0.083
92	0.091	0.091	0.091	0.091	0.083
93	0.099	0.091	0.091	0.091	0.083
94	0.099	0.091	0.091	0.091	0.083
95	0.099	0.091	0.091	0.091	0.083
96	0.099	0.099	0.091	0.091	0.083
97	0.099	0.099	0.091	0.091	0.091
98	0.099	0.099	0.091	0.091	0.083
99	0.099	0.099	0.091	0.099	0.083
100	0.099	0.099	0.091	0.099	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

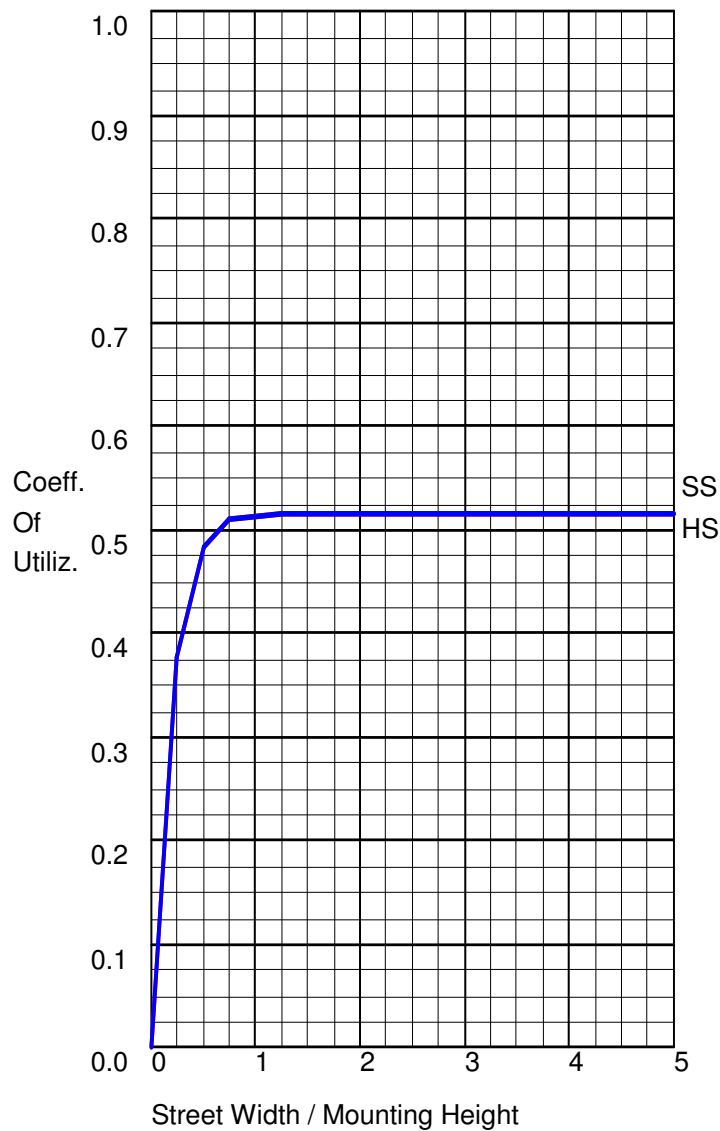
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-840-XXX-DIM-UNV-S-XXX_IES****CANDELA TABULATION - (Cont.)**

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-L20-840-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

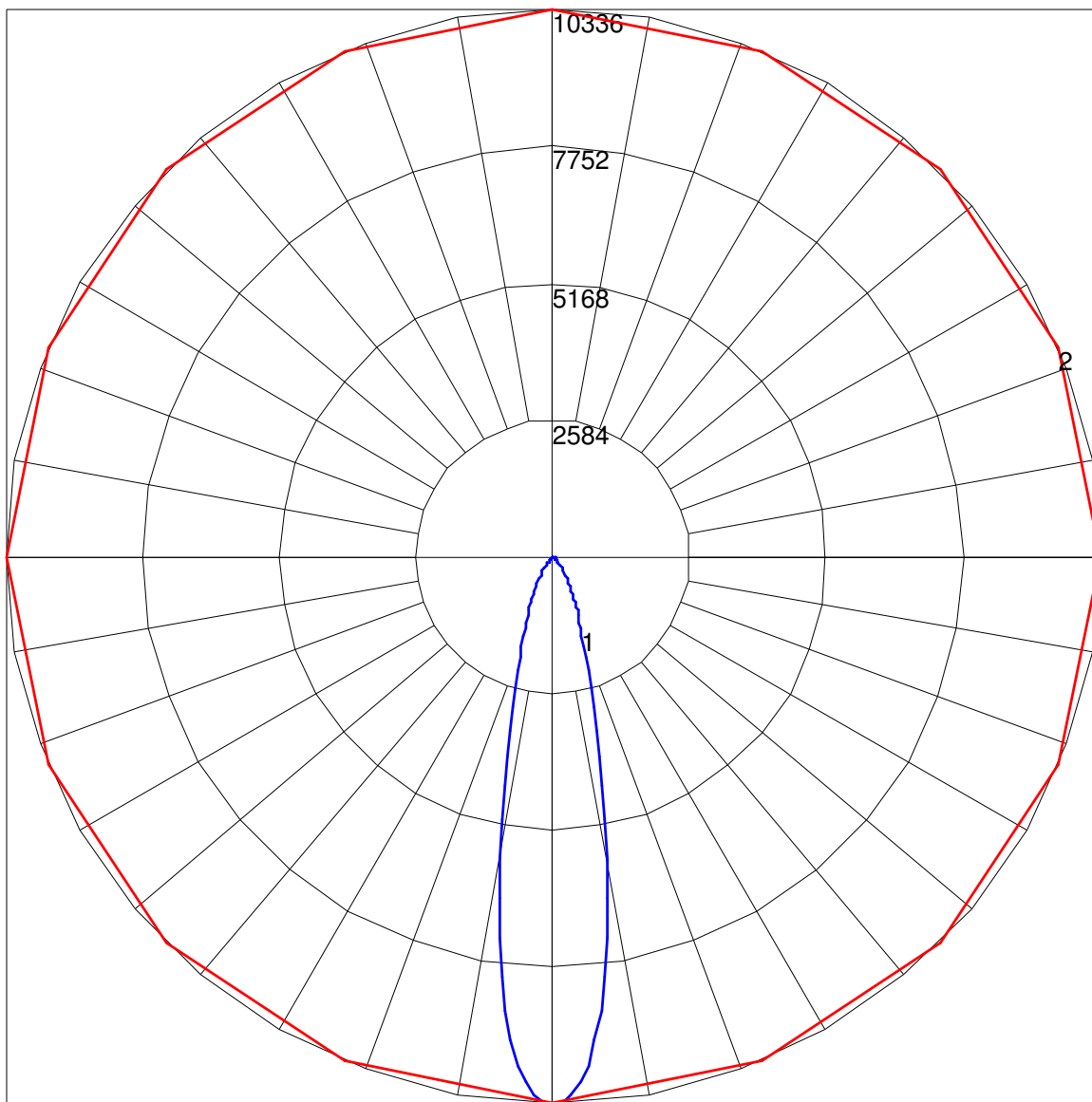
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1152.8	50.0
Downward House Side	1152.8	50.0
Downward Total	2305.6	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2305.8	100.0

POLAR GRAPH



Maximum Candela = 10335.81 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

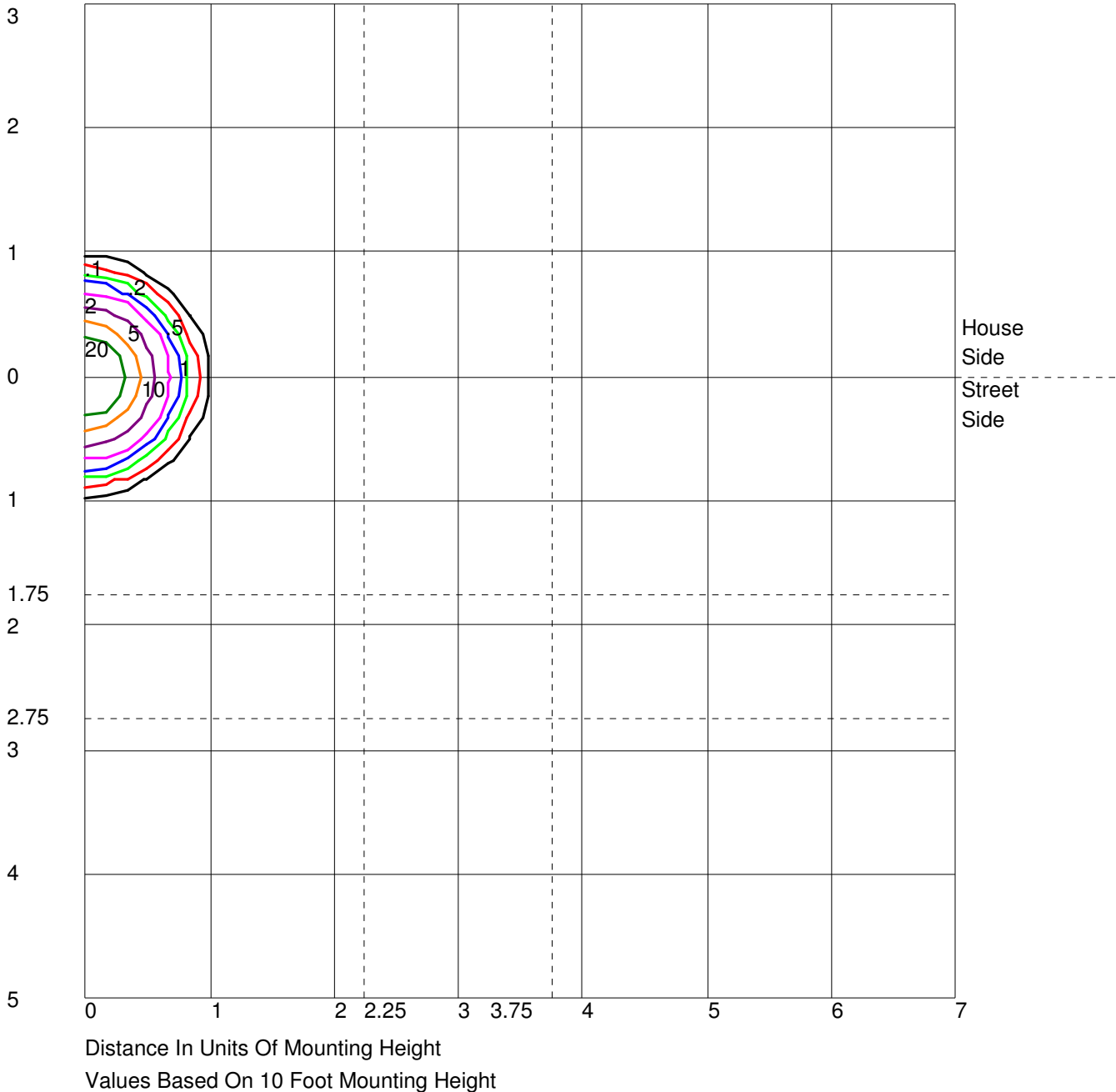


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