

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-827-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-L20-827-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	2129
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6039.471
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	6039.471
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.195 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.974 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-827-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	936.0	N.A.	44.0
FM - Front-Medium (30-60)	122.3	N.A.	5.7
FH - Front-High (60-80)	6.1	N.A.	0.3
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	936.0	N.A.	44.0
BM - Back-Medium (30-60)	122.3	N.A.	5.7
BH - Back-High (60-80)	6.1	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	2129.6	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	6039.471	6039.471	6039.471	6039.471	6039.471
1	6032.303	6032.029	6030.860	6030.565	6032.764
2	6002.671	6000.911	5999.750	5990.087	5988.075
3	5947.345	5938.352	5939.866	5934.205	5937.083
4	5859.048	5854.101	5849.081	5842.966	5848.021
5	5736.359	5743.888	5728.975	5719.578	5731.989
6	5584.378	5589.621	5578.659	5574.462	5583.260
7	5414.015	5406.782	5399.318	5400.695	5407.553
8	5206.657	5196.121	5193.294	5191.823	5202.013
9	4965.160	4959.037	4951.422	4951.408	4970.352
10	4694.875	4687.952	4682.954	4682.572	4706.824
11	4391.929	4386.131	4389.355	4394.836	4416.621
12	4065.258	4061.890	4069.808	4079.328	4107.827
13	3723.219	3726.407	3739.214	3752.296	3778.589
14	3377.474	3383.546	3405.714	3422.112	3442.189
15	3038.608	3049.439	3078.213	3096.912	3116.059
16	2715.160	2731.927	2764.580	2790.022	2799.938
17	2423.652	2440.822	2479.259	2499.415	2505.393
18	2162.936	2170.018	2212.630	2233.212	2239.558
19	1915.995	1936.908	1980.847	1997.736	2003.837
20	1709.113	1730.733	1769.509	1794.136	1799.753
21	1534.271	1552.805	1591.076	1610.208	1608.290
22	1387.576	1406.268	1439.455	1455.126	1452.068
23	1267.678	1281.445	1311.560	1325.428	1320.192
24	1165.060	1176.612	1205.646	1215.605	1210.146
25	1075.573	1087.782	1114.075	1121.921	1114.832
26	995.288	1007.432	1030.847	1037.460	1031.287
27	920.786	929.793	951.983	957.630	952.300
28	845.520	852.256	871.741	876.573	872.982
29	769.324	775.093	788.810	794.853	793.425
30	689.970	692.205	704.248	710.832	709.051
31	606.180	607.521	616.283	622.182	622.276
32	523.919	523.140	528.714	534.822	534.959
33	440.237	438.845	443.663	449.028	448.422
34	360.024	359.462	362.635	367.286	367.423
35	289.922	285.948	289.056	291.148	290.037
36	222.740	221.817	223.454	224.622	222.466
37	167.846	168.207	166.491	166.397	168.777
38	124.498	126.352	122.321	123.280	123.748
39	91.282	90.374	90.987	89.314	88.960
40	69.879	66.684	66.800	66.699	66.684
41	50.862	50.913	51.814	52.168	52.766
42	40.593	41.048	42.447	43.240	44.228
43	34.932	35.358	36.887	37.947	38.740
44	32.012	32.329	33.814	34.925	35.430
45	30.714	30.930	32.387	33.274	33.685
46	30.288	30.562	31.831	32.516	32.891
47	30.425	30.692	31.752	32.300	32.675
48	30.793	30.973	31.875	32.271	32.675
49	31.009	31.204	31.961	32.235	32.589
50	31.031	31.182	31.860	32.069	32.336
51	30.692	30.807	31.442	31.601	31.788
52	29.769	29.913	30.468	30.548	30.663

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-827-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	28.384	28.507	29.033	29.026	29.098
54	26.617	26.762	27.209	27.137	27.223
55	24.642	24.728	25.132	25.024	25.074
56	22.500	22.543	22.824	22.752	22.767
57	20.221	20.271	20.444	20.401	20.372
58	18.043	18.079	18.166	18.130	18.101
59	16.024	16.009	16.031	15.988	15.973
60	14.185	14.156	14.120	14.113	14.106
61	12.598	12.548	12.505	12.476	12.490
62	11.243	11.171	11.134	11.106	11.120
63	10.118	10.060	9.988	9.966	9.995
64	9.166	9.122	9.065	9.029	9.079
65	8.409	8.365	8.315	8.264	8.322
66	7.731	7.709	7.651	7.615	7.680
67	7.168	7.147	7.082	7.060	7.125
68	6.642	6.627	6.577	6.541	6.620
69	6.166	6.159	6.094	6.065	6.137
70	5.726	5.711	5.647	5.603	5.661
71	5.286	5.286	5.199	5.149	5.185
72	4.868	4.861	4.767	4.702	4.745
73	4.442	4.435	4.327	4.248	4.284
74	3.995	3.988	3.873	3.779	3.815
75	3.526	3.490	3.389	3.281	3.310
76	2.986	2.942	2.820	2.733	2.762
77	2.373	2.344	2.185	2.120	2.120
78	1.659	1.644	1.486	1.399	1.413
79	1.075	1.089	1.046	1.053	1.053
80	0.974	0.974	0.959	0.959	0.959
81	0.909	0.909	0.909	0.916	0.909
82	0.865	0.858	0.858	0.865	0.865
83	0.808	0.800	0.800	0.800	0.808
84	0.743	0.736	0.736	0.743	0.743
85	0.671	0.671	0.671	0.671	0.671
86	0.591	0.584	0.584	0.584	0.591
87	0.490	0.490	0.490	0.490	0.490
88	0.382	0.382	0.382	0.375	0.375
89	0.267	0.260	0.260	0.260	0.260
90	0.195	0.180	0.180	0.173	0.166
91	0.180	0.173	0.166	0.159	0.159
92	0.180	0.173	0.166	0.166	0.159
93	0.180	0.173	0.173	0.166	0.166
94	0.180	0.173	0.173	0.166	0.166
95	0.180	0.173	0.173	0.166	0.173
96	0.187	0.173	0.173	0.166	0.166
97	0.187	0.180	0.173	0.173	0.173
98	0.187	0.180	0.180	0.180	0.180
99	0.202	0.180	0.180	0.180	0.180
100	0.202	0.187	0.180	0.180	0.180
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

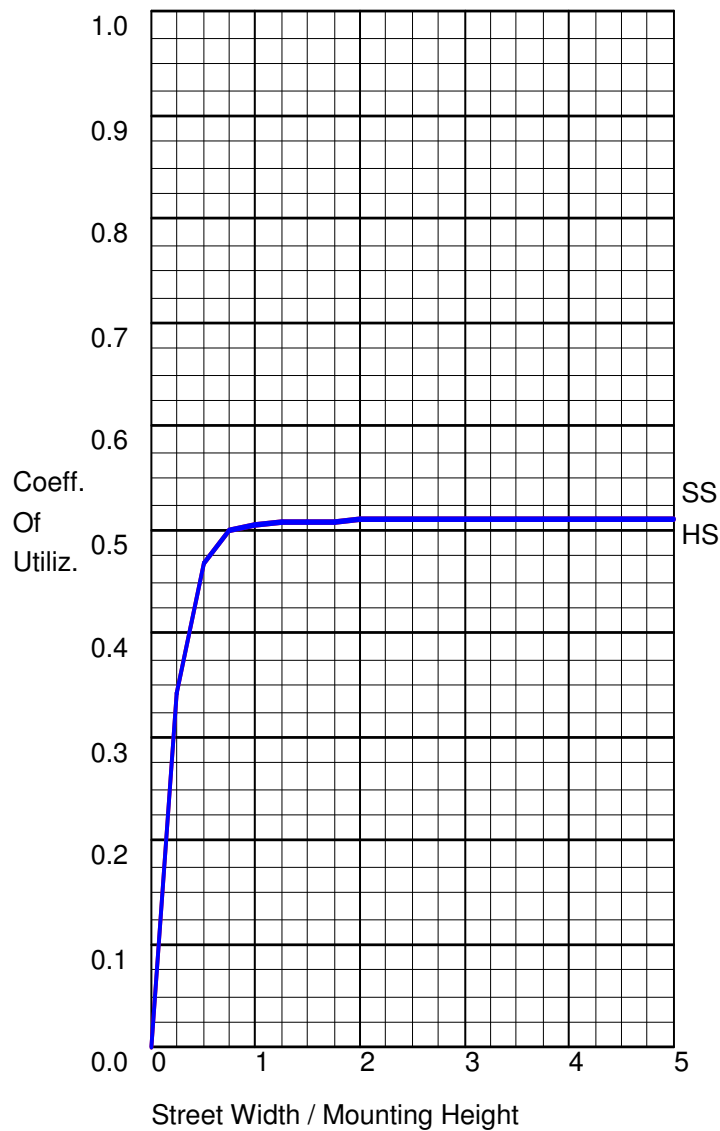
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-827-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L20-827-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

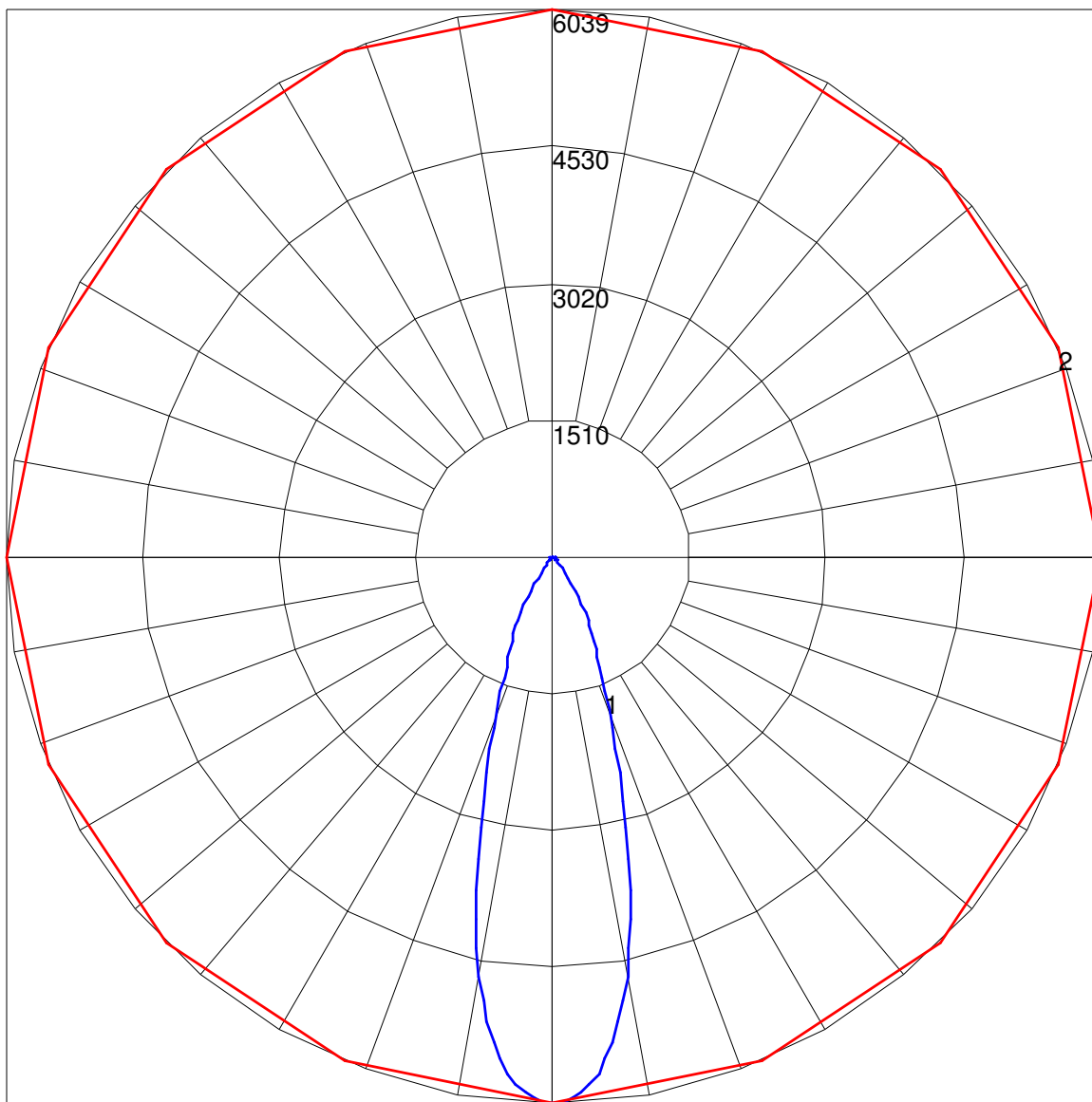
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1064.6	50.0
Downward House Side	1064.6	50.0
Downward Total	2129.2	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2129.4	100.0

POLAR GRAPH



Maximum Candela = 6039.471 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

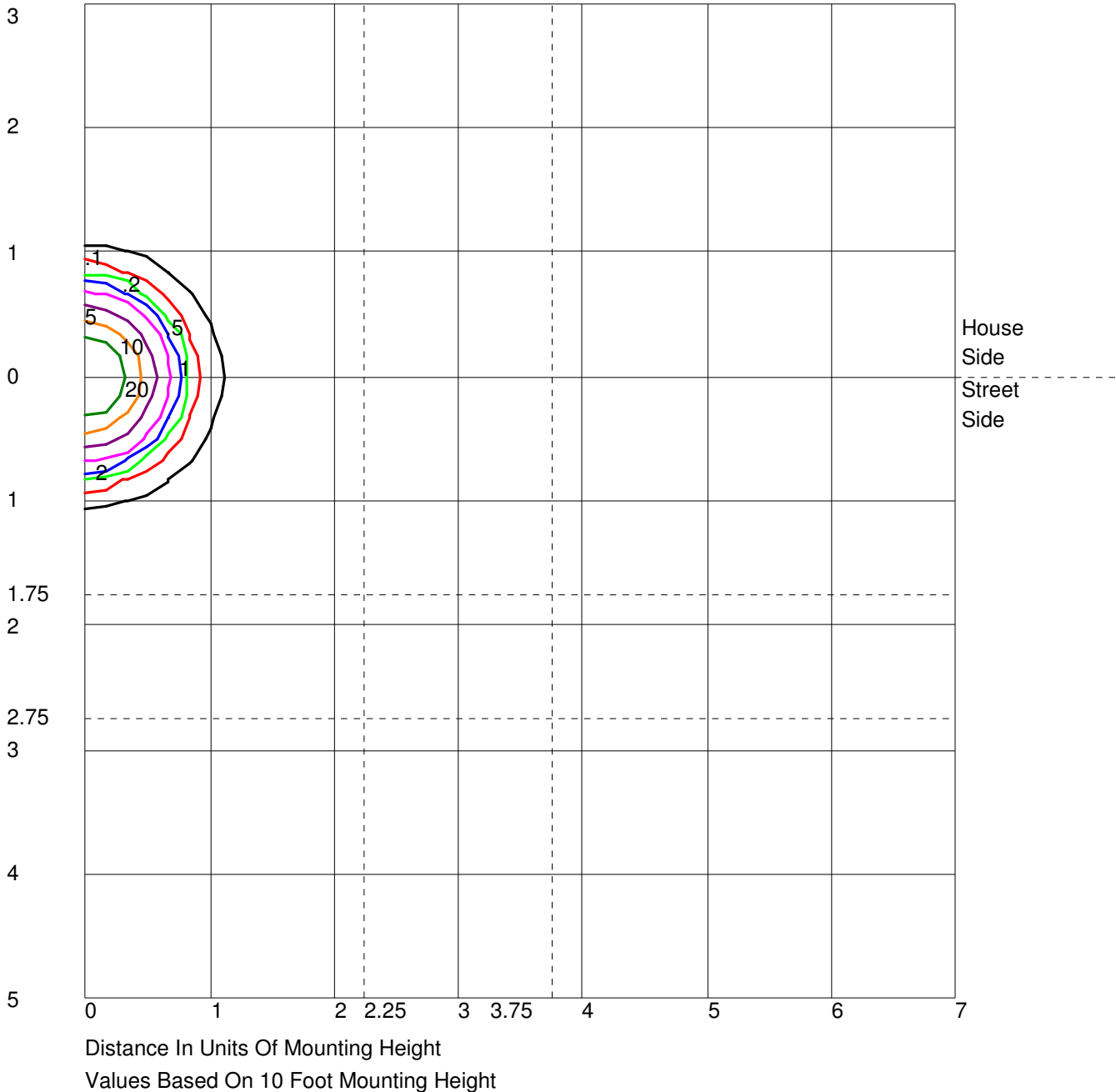


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