

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-830-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-L25-830-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	2833
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12698.834
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	12698.834
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.13 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.577 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-830-XXX-DIM-UNV-S-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1286.0	N.A.	45.4
FM - Front-Medium (30-60)	126.4	N.A.	4.5
FH - Front-High (60-80)	3.8	N.A.	0.1
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	1286.0	N.A.	45.4
BM - Back-Medium (30-60)	126.4	N.A.	4.5
BH - Back-High (60-80)	3.8	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	2832.9	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	12698.834	12698.834	12698.834	12698.834	12698.834
1	12675.608	12670.188	12671.277	12666.518	12671.389
2	12516.328	12514.140	12505.721	12501.754	12515.350
3	12239.966	12230.272	12222.812	12215.157	12245.647
4	11826.574	11823.398	11810.667	11806.877	11844.399
5	11273.617	11263.643	11260.058	11255.289	11302.618
6	10579.486	10575.807	10579.141	10586.321	10625.557
7	9763.671	9767.461	9790.856	9812.033	9827.800
8	8855.863	8872.356	8917.580	8955.903	8945.100
9	7917.751	7942.421	8013.097	8063.797	8022.717
10	7004.281	7034.203	7122.201	7184.235	7114.574
11	6134.805	6169.840	6272.031	6334.940	6248.507
12	5332.084	5379.161	5478.782	5553.146	5454.754
13	4633.920	4673.584	4778.466	4857.459	4759.114
14	4029.500	4062.543	4161.018	4237.309	4146.331
15	3508.822	3541.120	3638.887	3708.706	3618.063
16	3073.433	3107.751	3178.855	3241.112	3162.269
17	2726.441	2729.217	2799.706	2850.182	2789.462
18	2403.533	2425.177	2479.620	2520.448	2474.200
19	2148.032	2160.055	2218.895	2255.113	2221.186
20	1934.542	1950.607	1990.932	2021.339	1987.561
21	1761.396	1771.072	1805.381	1830.461	1798.275
22	1614.400	1623.639	1650.441	1667.195	1639.918
23	1491.516	1496.349	1516.987	1530.966	1506.407
24	1384.473	1387.052	1403.415	1411.164	1389.986
25	1287.264	1290.459	1300.833	1303.161	1285.346
26	1199.611	1199.378	1203.522	1201.948	1186.414
27	1109.135	1104.572	1106.192	1103.259	1089.075
28	1012.523	1007.196	1005.566	1003.852	993.543
29	910.825	905.843	904.018	906.988	899.082
30	802.674	800.905	799.461	805.598	801.119
31	693.442	693.871	694.262	704.180	701.507
32	587.945	589.957	590.898	603.908	605.081
33	484.944	488.818	492.227	505.386	511.272
34	389.468	396.108	400.531	414.566	423.749
35	307.933	313.586	315.448	328.710	341.739
36	231.473	239.566	245.368	254.132	268.520
37	171.768	182.124	184.536	192.285	208.079
38	126.395	133.594	135.578	144.723	156.746
39	95.914	97.050	100.450	106.447	113.599
40	69.326	72.343	77.027	81.377	85.297
41	52.311	54.816	58.001	61.614	65.619
42	40.716	42.812	46.006	48.800	51.976
43	32.959	34.439	37.410	39.869	42.178
44	27.576	28.647	31.217	33.406	34.402
45	23.664	24.474	26.710	28.395	28.842
46	20.824	21.420	23.366	24.586	24.866
47	18.635	19.129	20.787	21.634	21.783
48	16.903	17.378	18.738	19.343	19.427
49	15.543	15.934	17.154	17.536	17.546
50	14.435	14.780	15.832	16.083	16.037
51	13.457	13.783	14.724	14.901	14.808
52	12.563	12.843	13.671	13.727	13.532

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-830-XXX-DIM-UNV-S-XXX\_.IES****CANDELA TABULATION - (Cont.)**

53	11.744	11.995	12.712	12.656	12.396
54	11.027	11.269	11.865	11.706	11.408
55	10.403	10.607	11.110	10.887	10.524
56	9.844	9.993	10.440	10.179	9.741
57	9.313	9.434	9.788	9.536	9.080
58	8.810	8.912	9.211	8.959	8.531
59	8.344	8.419	8.642	8.419	8.018
60	7.879	7.944	8.121	7.897	7.506
61	7.413	7.469	7.627	7.413	7.041
62	6.947	6.994	7.134	6.920	6.556
63	6.482	6.538	6.649	6.435	6.091
64	6.025	6.072	6.184	5.960	5.625
65	5.578	5.634	5.718	5.504	5.187
66	5.141	5.187	5.271	5.066	4.740
67	4.722	4.778	4.852	4.666	4.340
68	4.340	4.377	4.461	4.256	3.949
69	3.967	4.014	4.088	3.893	3.576
70	3.613	3.660	3.744	3.530	3.213
71	3.278	3.315	3.399	3.185	2.868
72	2.952	2.989	3.055	2.850	2.542
73	2.626	2.664	2.719	2.505	2.235
74	2.291	2.328	2.365	2.179	1.900
75	1.946	1.974	1.984	1.835	1.555
76	1.611	1.630	1.583	1.490	1.239
77	1.313	1.322	1.239	1.155	0.950
78	1.015	0.987	0.857	0.792	0.698
79	0.633	0.652	0.624	0.615	0.587
80	0.577	0.577	0.577	0.568	0.549
81	0.540	0.540	0.549	0.540	0.512
82	0.512	0.512	0.522	0.512	0.484
83	0.475	0.475	0.484	0.484	0.456
84	0.438	0.438	0.438	0.428	0.419
85	0.382	0.391	0.400	0.391	0.373
86	0.335	0.335	0.335	0.335	0.326
87	0.279	0.279	0.279	0.279	0.270
88	0.214	0.214	0.224	0.214	0.205
89	0.158	0.149	0.158	0.149	0.149
90	0.130	0.112	0.121	0.112	0.112
91	0.121	0.112	0.112	0.112	0.102
92	0.112	0.112	0.112	0.112	0.102
93	0.121	0.112	0.112	0.112	0.102
94	0.121	0.112	0.112	0.112	0.102
95	0.121	0.112	0.112	0.112	0.102
96	0.121	0.121	0.112	0.112	0.102
97	0.121	0.121	0.112	0.112	0.112
98	0.121	0.121	0.112	0.112	0.102
99	0.121	0.121	0.112	0.121	0.102
100	0.121	0.121	0.112	0.121	0.112
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

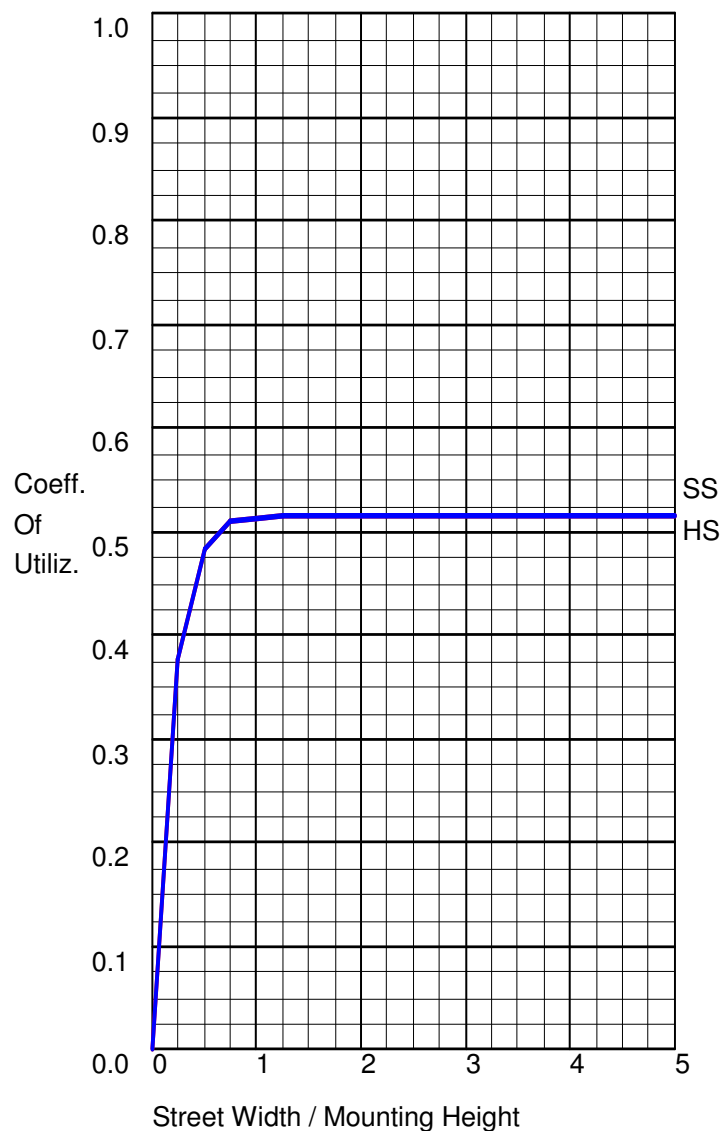
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L25-830-XXX-DIM-UNV-S-XXX\_.IES****CANDELA TABULATION - (Cont.)**

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-L25-830-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

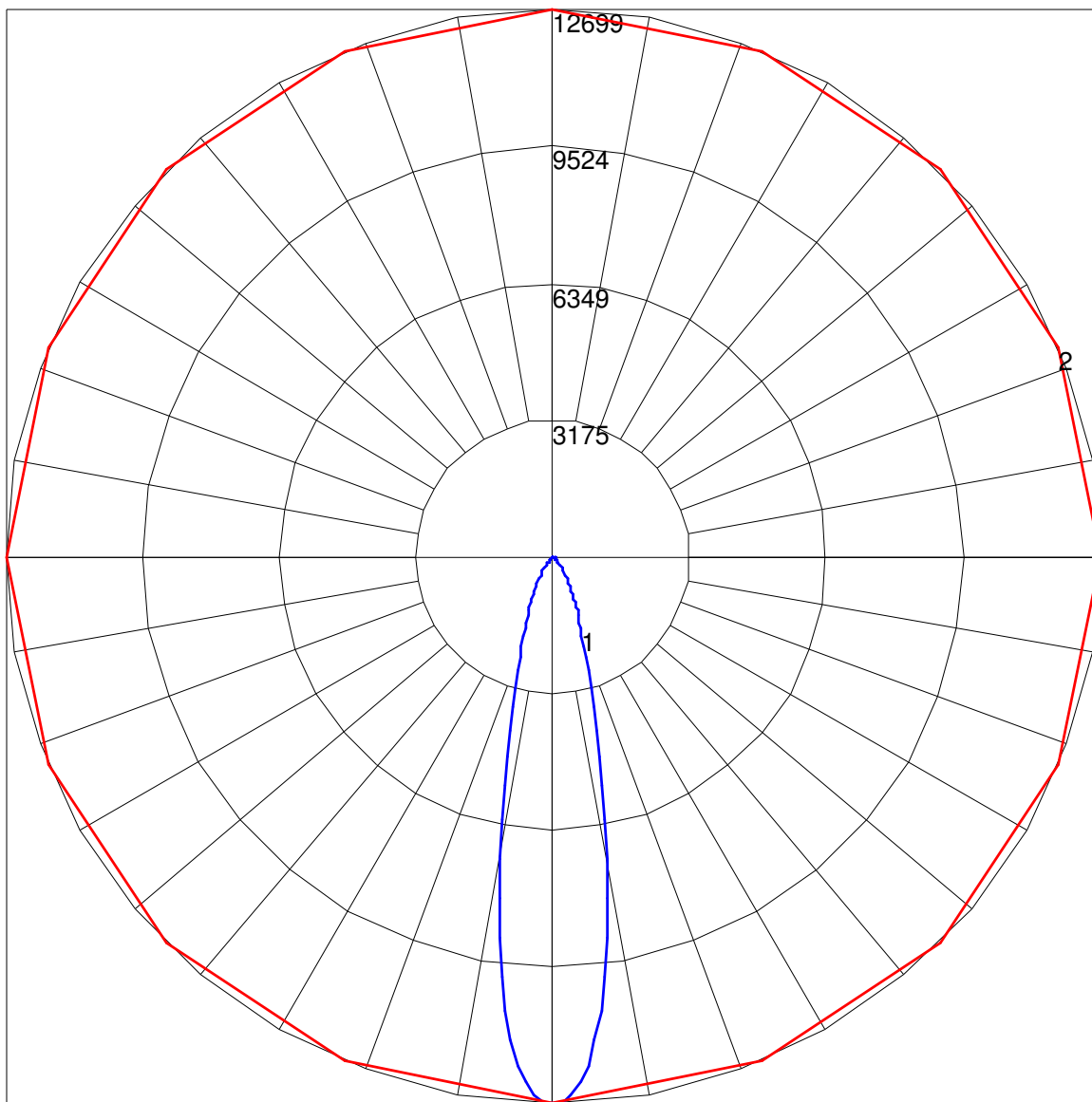
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1416.4	50.0
Downward House Side	1416.4	50.0
Downward Total	2832.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2833.0	100.0

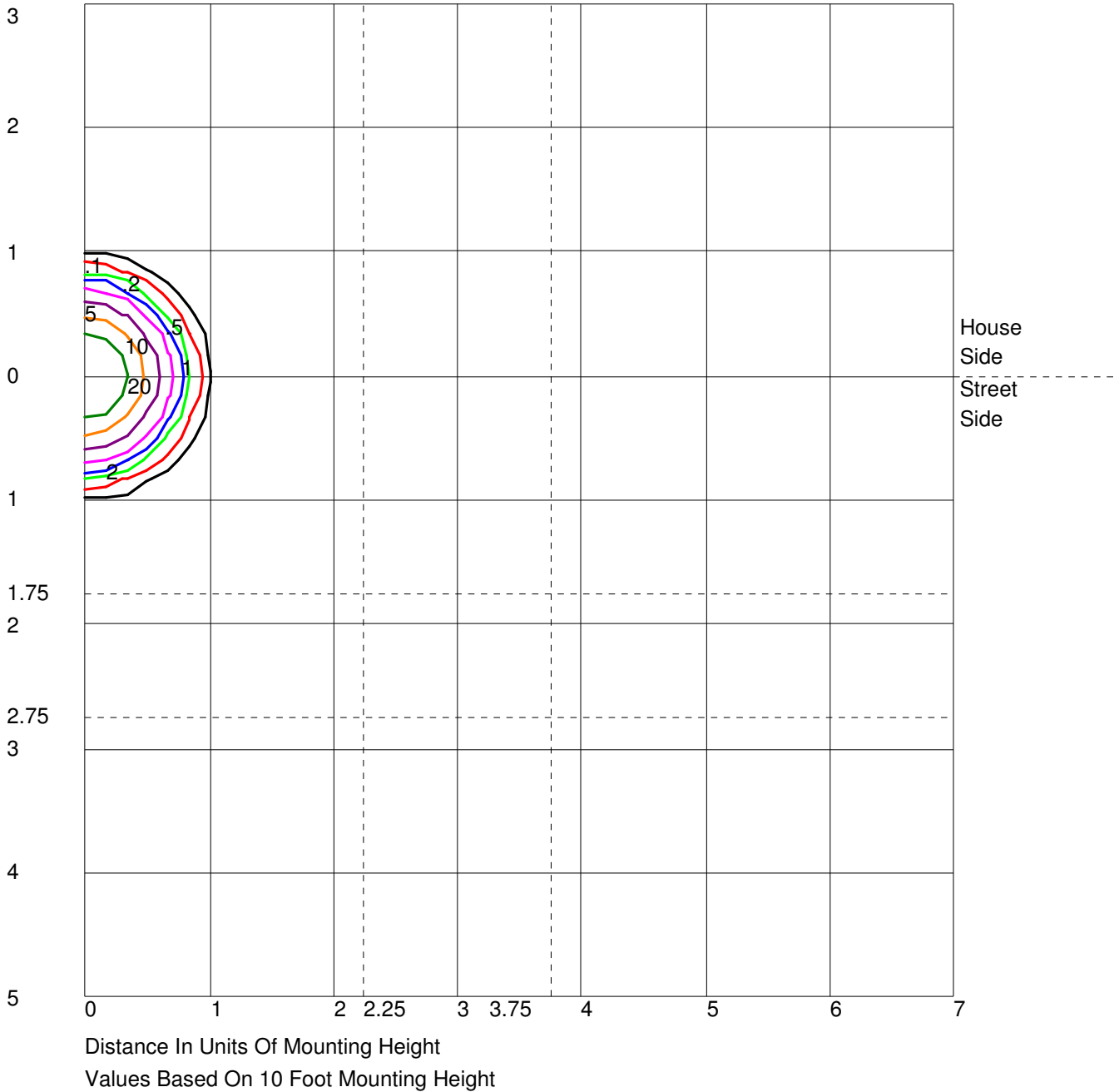
POLAR GRAPH



Maximum Candela = 12698.834 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



# PHOTO IES R

