

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-927-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-L10-927-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	1091
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4891.898
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	4891.898
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.05 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.222 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-927-XXX-DIM-UNV-S-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	495.4	N.A.	45.4
FM - Front-Medium (30-60)	48.7	N.A.	4.5
FH - Front-High (60-80)	1.5	N.A.	0.1
FVH - Front-Very High (80-90)	0.1	N.A.	0.0
BL - Back-Low (0-30)	495.4	N.A.	45.4
BM - Back-Medium (30-60)	48.7	N.A.	4.5
BH - Back-High (60-80)	1.5	N.A.	0.1
BVH - Back-Very High (80-90)	0.1	N.A.	0.0
UL - Uplight-Low (90-100)	< 0.05	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	1091.4	N.A.	100.0
BUG Rating	B1-U1-G0		

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-927-XXX-DIM-UNV-S-XXX\_.IES****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	4891.898	4891.898	4891.898	4891.898	4891.898
1	4882.950	4880.862	4881.282	4879.449	4881.325
2	4821.592	4820.749	4817.506	4815.977	4821.215
3	4715.131	4711.396	4708.522	4705.573	4717.319
4	4555.882	4554.658	4549.754	4548.294	4562.748
5	4342.870	4339.027	4337.646	4335.809	4354.041
6	4075.473	4074.056	4075.341	4078.107	4093.221
7	3761.202	3762.662	3771.674	3779.832	3785.906
8	3411.492	3417.846	3435.267	3450.030	3445.868
9	3050.109	3059.612	3086.838	3106.369	3090.544
10	2698.218	2709.745	2743.644	2767.541	2740.706
11	2363.275	2376.771	2416.138	2440.372	2407.076
12	2054.048	2072.183	2110.559	2139.206	2101.303
13	1785.098	1800.377	1840.781	1871.210	1833.326
14	1552.261	1564.989	1602.925	1632.314	1597.267
15	1351.683	1364.125	1401.787	1428.683	1393.765
16	1183.960	1197.181	1224.572	1248.555	1218.182
17	1050.291	1051.360	1078.514	1097.959	1074.568
18	925.899	934.237	955.210	970.937	953.122
19	827.474	832.106	854.772	868.724	855.654
20	745.232	751.421	766.955	778.669	765.656
21	678.532	682.260	695.476	705.138	692.739
22	621.906	625.465	635.790	642.244	631.736
23	574.568	576.430	584.380	589.765	580.304
24	533.332	534.326	540.629	543.614	535.456
25	495.885	497.116	501.112	502.009	495.146
26	462.119	462.029	463.626	463.019	457.035
27	427.266	425.508	426.132	425.002	419.538
28	390.048	387.996	387.368	386.708	382.737
29	350.872	348.953	348.249	349.394	346.348
30	309.209	308.528	307.972	310.336	308.610
31	267.131	267.296	267.446	271.267	270.238
32	226.491	227.266	227.628	232.640	233.092
33	186.812	188.305	189.618	194.687	196.954
34	150.032	152.590	154.294	159.701	163.238
35	118.623	120.801	121.518	126.627	131.646
36	89.169	92.287	94.522	97.898	103.441
37	66.169	70.159	71.088	74.073	80.157
38	48.691	51.464	52.228	55.751	60.382
39	36.948	37.386	38.696	41.006	43.761
40	26.706	27.868	29.673	31.348	32.859
41	20.151	21.116	22.343	23.735	25.278
42	15.685	16.492	17.723	18.799	20.022
43	12.696	13.267	14.411	15.358	16.248
44	10.623	11.035	12.026	12.869	13.252
45	9.116	9.428	10.289	10.939	11.111
46	8.022	8.251	9.001	9.471	9.579
47	7.179	7.369	8.007	8.334	8.391
48	6.511	6.694	7.218	7.451	7.484
49	5.988	6.138	6.608	6.755	6.759
50	5.561	5.693	6.099	6.196	6.178
51	5.184	5.310	5.672	5.740	5.704
52	4.840	4.947	5.267	5.288	5.213

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-927-XXX-DIM-UNV-S-XXX\_IES****CANDELA TABULATION - (Cont.)**

53	4.524	4.621	4.897	4.876	4.775
54	4.248	4.341	4.571	4.510	4.395
55	4.007	4.086	4.280	4.194	4.054
56	3.792	3.849	4.022	3.921	3.753
57	3.588	3.634	3.771	3.674	3.498
58	3.394	3.433	3.548	3.451	3.286
59	3.214	3.243	3.329	3.243	3.089
60	3.035	3.060	3.128	3.042	2.892
61	2.856	2.877	2.938	2.856	2.712
62	2.676	2.694	2.748	2.666	2.526
63	2.497	2.518	2.562	2.479	2.346
64	2.321	2.339	2.382	2.296	2.167
65	2.149	2.170	2.203	2.120	1.998
66	1.980	1.998	2.031	1.952	1.826
67	1.819	1.840	1.869	1.797	1.672
68	1.672	1.686	1.718	1.640	1.521
69	1.528	1.546	1.575	1.500	1.378
70	1.392	1.410	1.442	1.360	1.238
71	1.263	1.277	1.309	1.227	1.105
72	1.137	1.152	1.177	1.098	0.979
73	1.012	1.026	1.048	0.965	0.861
74	0.883	0.897	0.911	0.839	0.732
75	0.750	0.761	0.764	0.707	0.599
76	0.621	0.628	0.610	0.574	0.477
77	0.506	0.509	0.477	0.445	0.366
78	0.391	0.380	0.330	0.305	0.269
79	0.244	0.251	0.240	0.237	0.226
80	0.222	0.222	0.222	0.219	0.212
81	0.208	0.208	0.212	0.208	0.197
82	0.197	0.197	0.201	0.197	0.187
83	0.183	0.183	0.187	0.187	0.176
84	0.169	0.169	0.169	0.165	0.161
85	0.147	0.151	0.154	0.151	0.144
86	0.129	0.129	0.129	0.129	0.126
87	0.108	0.108	0.108	0.108	0.104
88	0.083	0.083	0.086	0.083	0.079
89	0.061	0.057	0.061	0.057	0.057
90	0.050	0.043	0.047	0.043	0.043
91	0.047	0.043	0.043	0.043	0.039
92	0.043	0.043	0.043	0.043	0.039
93	0.047	0.043	0.043	0.043	0.039
94	0.047	0.043	0.043	0.043	0.039
95	0.047	0.043	0.043	0.043	0.039
96	0.047	0.047	0.043	0.043	0.039
97	0.047	0.047	0.043	0.043	0.043
98	0.047	0.047	0.043	0.043	0.039
99	0.047	0.047	0.043	0.047	0.039
100	0.047	0.047	0.043	0.047	0.043
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

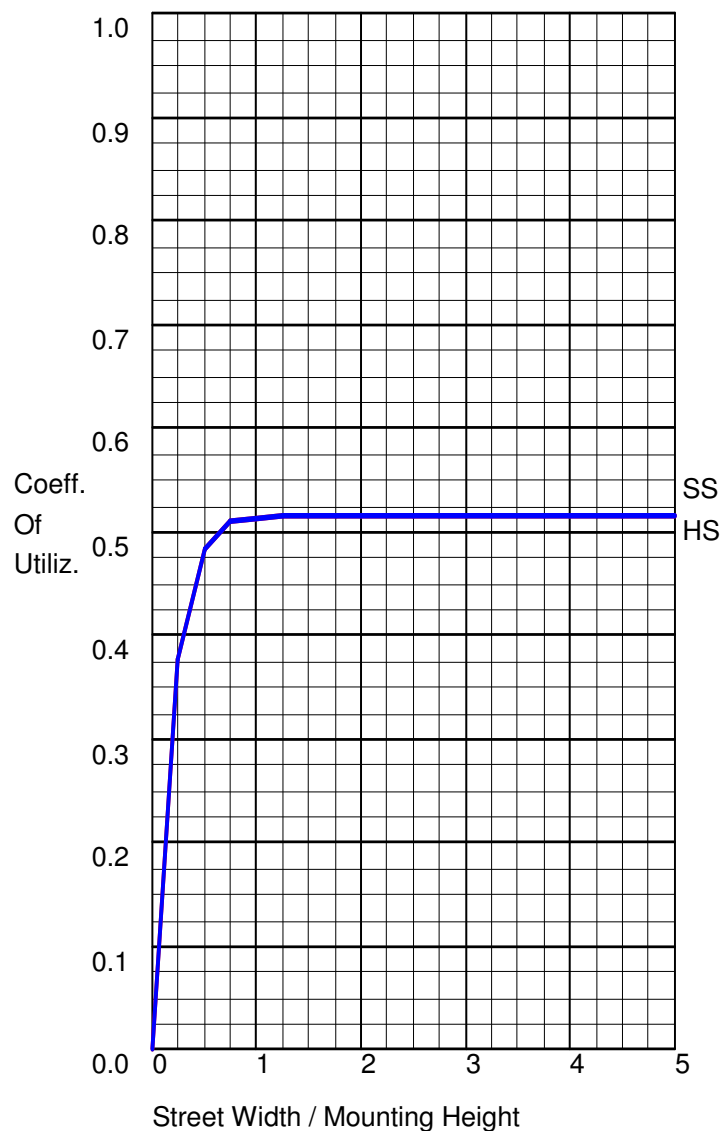
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-927-XXX-DIM-UNV-S-XXX\_IES****CANDELA TABULATION - (Cont.)**

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-L10-927-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

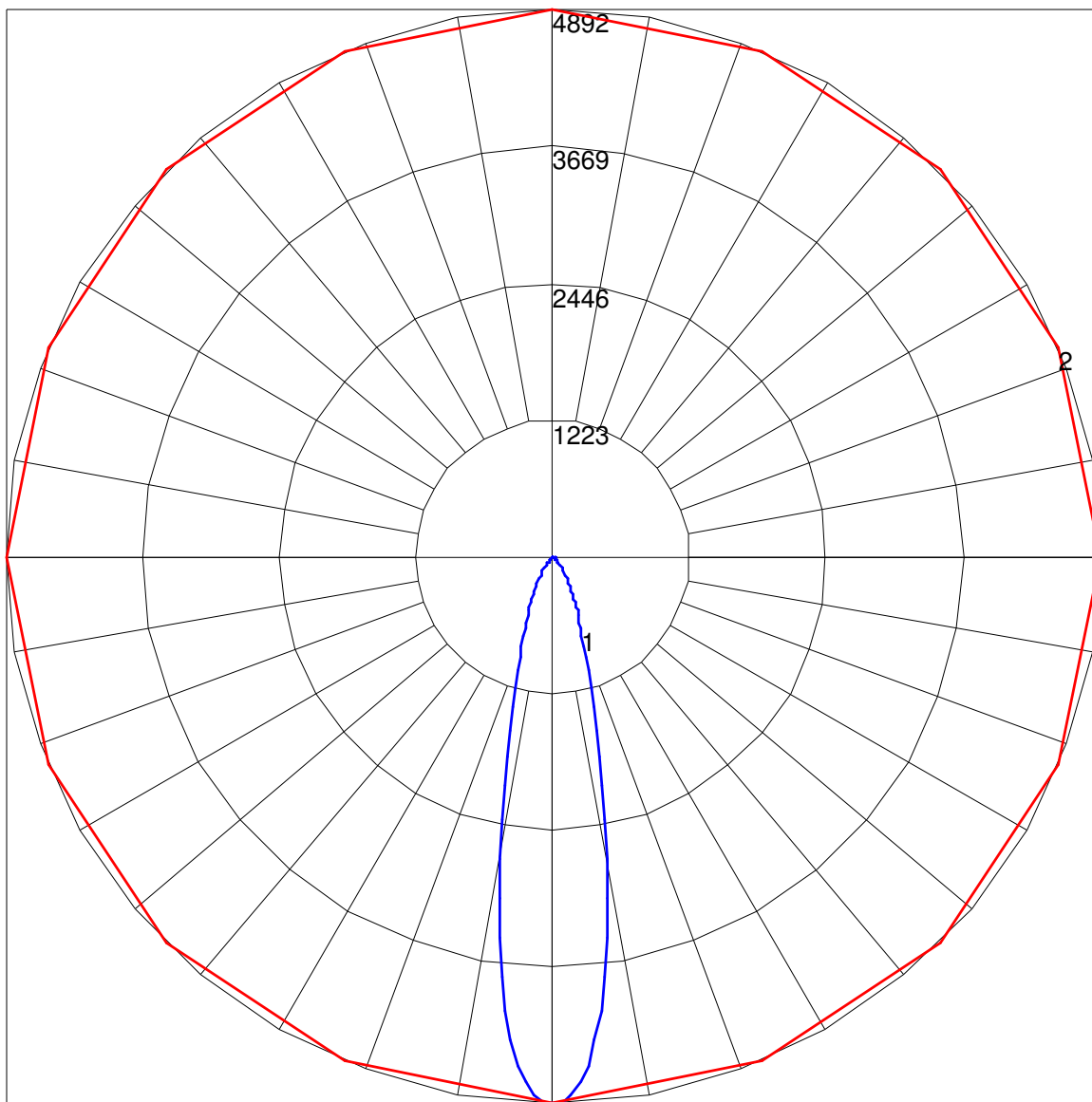
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	545.6	50.0
Downward House Side	545.6	50.0
Downward Total	1091.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	1091.2	100.0

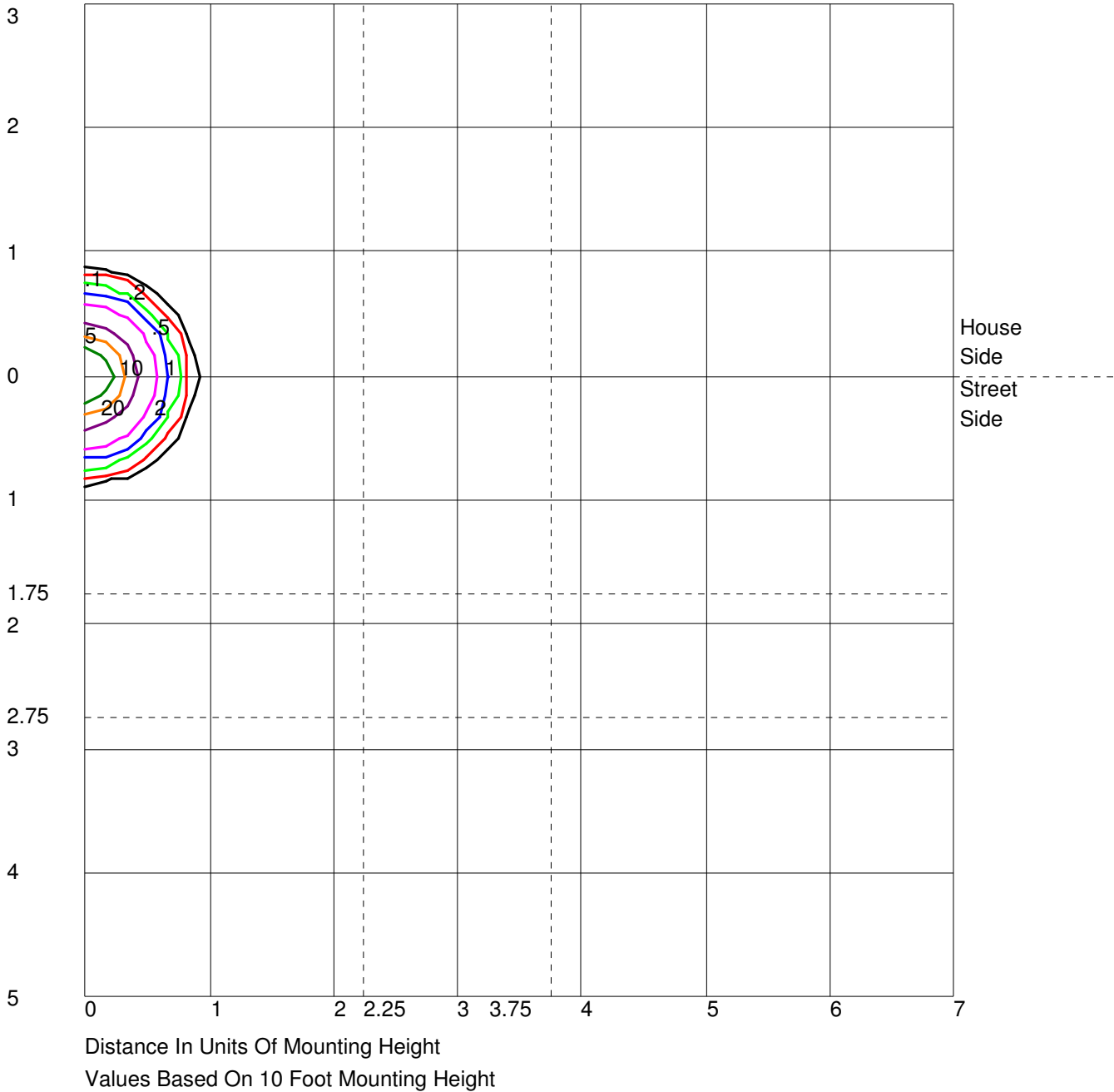
POLAR GRAPH



Maximum Candela = 4891.898 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

