

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-840-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-L15-840-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	1729
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7750.726
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	7750.726
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.08 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.352 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L15-840-XXX-DIM-UNV-S-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	784.9	N.A.	45.4
FM - Front-Medium (30-60)	77.1	N.A.	4.5
FH - Front-High (60-80)	2.3	N.A.	0.1
FVH - Front-Very High (80-90)	0.1	N.A.	0.0
BL - Back-Low (0-30)	784.9	N.A.	45.4
BM - Back-Medium (30-60)	77.1	N.A.	4.5
BH - Back-High (60-80)	2.3	N.A.	0.1
BVH - Back-Very High (80-90)	0.1	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	1728.9	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	7750.726	7750.726	7750.726	7750.726	7750.726
1	7736.550	7733.242	7733.907	7731.002	7733.975
2	7639.334	7637.998	7632.860	7630.438	7638.737
3	7470.657	7464.740	7460.187	7455.514	7474.124
4	7218.343	7216.405	7208.634	7206.321	7229.222
5	6880.846	6874.758	6872.570	6869.660	6898.547
6	6457.183	6454.938	6456.973	6461.355	6485.303
7	5959.251	5961.565	5975.843	5988.769	5998.392
8	5405.171	5415.238	5442.840	5466.230	5459.637
9	4832.595	4847.652	4890.789	4921.734	4896.661
10	4275.059	4293.322	4347.032	4384.894	4342.376
11	3744.375	3765.759	3828.131	3866.527	3813.773
12	3254.435	3283.168	3343.971	3389.359	3329.306
13	2828.311	2852.519	2916.534	2964.747	2904.723
14	2459.403	2479.571	2539.675	2586.239	2530.711
15	2141.608	2161.320	2220.993	2263.607	2208.283
16	1875.868	1896.814	1940.212	1978.211	1930.089
17	1664.082	1665.776	1708.799	1739.607	1702.547
18	1466.995	1480.205	1513.435	1538.354	1510.127
19	1311.050	1318.389	1354.301	1376.407	1355.699
20	1180.747	1190.552	1215.164	1233.723	1213.107
21	1075.067	1080.973	1101.913	1117.221	1097.576
22	985.348	990.987	1007.346	1017.572	1000.923
23	910.346	913.296	925.892	934.424	919.435
24	845.012	846.587	856.574	861.303	848.377
25	785.681	787.631	793.963	795.384	784.510
26	732.182	732.040	734.569	733.608	724.127
27	676.960	674.175	675.164	673.373	664.716
28	617.993	614.741	613.747	612.701	606.408
29	555.922	552.881	551.767	553.580	548.754
30	489.912	488.832	487.951	491.696	488.962
31	423.242	423.504	423.742	429.796	428.165
32	358.852	360.080	360.654	368.595	369.311
33	295.985	298.350	300.430	308.462	312.054
34	237.711	241.764	244.464	253.030	258.635
35	187.947	191.397	192.534	200.628	208.580
36	141.280	146.219	149.760	155.109	163.891
37	104.839	111.159	112.632	117.361	127.001
38	77.145	81.539	82.750	88.332	95.670
39	58.541	59.235	61.309	64.970	69.335
40	42.313	44.155	47.014	49.668	52.061
41	31.928	33.457	35.401	37.606	40.051
42	24.851	26.130	28.080	29.785	31.723
43	20.116	21.020	22.833	24.334	25.744
44	16.831	17.484	19.053	20.389	20.997
45	14.443	14.938	16.302	17.331	17.604
46	12.710	13.074	14.262	15.006	15.177
47	11.374	11.675	12.687	13.204	13.295
48	10.317	10.607	11.437	11.806	11.857
49	9.487	9.726	10.470	10.703	10.709
50	8.810	9.021	9.663	9.817	9.788
51	8.214	8.413	8.987	9.095	9.038
52	7.668	7.838	8.344	8.378	8.259

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L15-840-XXX-DIM-UNV-S-XXX\_IES****CANDELA TABULATION - (Cont.)**

53	7.168	7.321	7.759	7.725	7.566
54	6.730	6.878	7.242	7.145	6.963
55	6.349	6.474	6.781	6.645	6.423
56	6.008	6.099	6.372	6.213	5.946
57	5.684	5.758	5.974	5.821	5.542
58	5.377	5.440	5.622	5.468	5.207
59	5.093	5.138	5.275	5.138	4.894
60	4.809	4.849	4.957	4.820	4.581
61	4.525	4.559	4.655	4.525	4.297
62	4.240	4.269	4.354	4.223	4.002
63	3.956	3.990	4.058	3.928	3.717
64	3.678	3.706	3.774	3.638	3.433
65	3.405	3.439	3.490	3.359	3.166
66	3.138	3.166	3.217	3.092	2.893
67	2.882	2.916	2.961	2.848	2.649
68	2.649	2.672	2.723	2.598	2.410
69	2.421	2.450	2.495	2.376	2.183
70	2.205	2.234	2.285	2.154	1.961
71	2.001	2.024	2.075	1.944	1.751
72	1.802	1.825	1.864	1.739	1.552
73	1.603	1.626	1.660	1.529	1.364
74	1.398	1.421	1.444	1.330	1.160
75	1.188	1.205	1.211	1.120	0.949
76	0.983	0.995	0.966	0.909	0.756
77	0.801	0.807	0.756	0.705	0.580
78	0.620	0.603	0.523	0.483	0.426
79	0.387	0.398	0.381	0.375	0.358
80	0.352	0.352	0.352	0.347	0.335
81	0.330	0.330	0.335	0.330	0.313
82	0.313	0.313	0.318	0.313	0.296
83	0.290	0.290	0.296	0.296	0.279
84	0.267	0.267	0.267	0.261	0.256
85	0.233	0.239	0.244	0.239	0.227
86	0.205	0.205	0.205	0.205	0.199
87	0.171	0.171	0.171	0.171	0.165
88	0.131	0.131	0.136	0.131	0.125
89	0.097	0.091	0.097	0.091	0.091
90	0.080	0.068	0.074	0.068	0.068
91	0.074	0.068	0.068	0.068	0.063
92	0.068	0.068	0.068	0.068	0.063
93	0.074	0.068	0.068	0.068	0.063
94	0.074	0.068	0.068	0.068	0.063
95	0.074	0.068	0.068	0.068	0.063
96	0.074	0.074	0.068	0.068	0.063
97	0.074	0.074	0.068	0.068	0.068
98	0.074	0.074	0.068	0.068	0.063
99	0.074	0.074	0.068	0.074	0.063
100	0.074	0.074	0.068	0.074	0.068
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

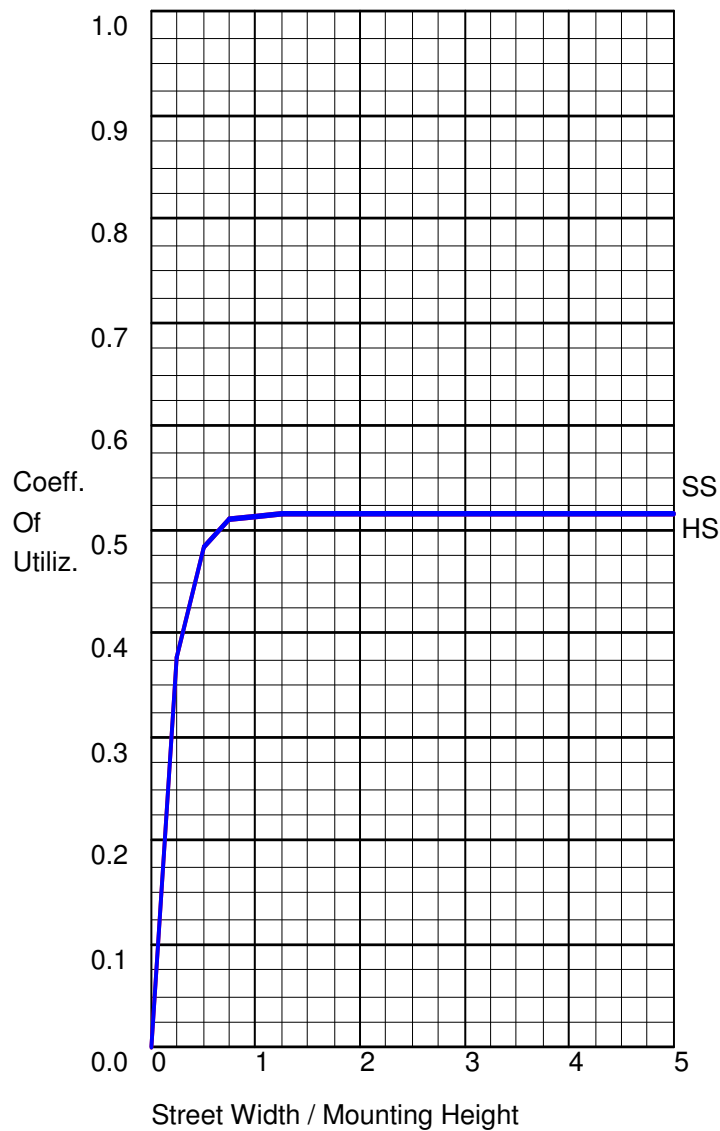
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L15-840-XXX-DIM-UNV-S-XXX\_IES****CANDELA TABULATION - (Cont.)**

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-L15-840-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

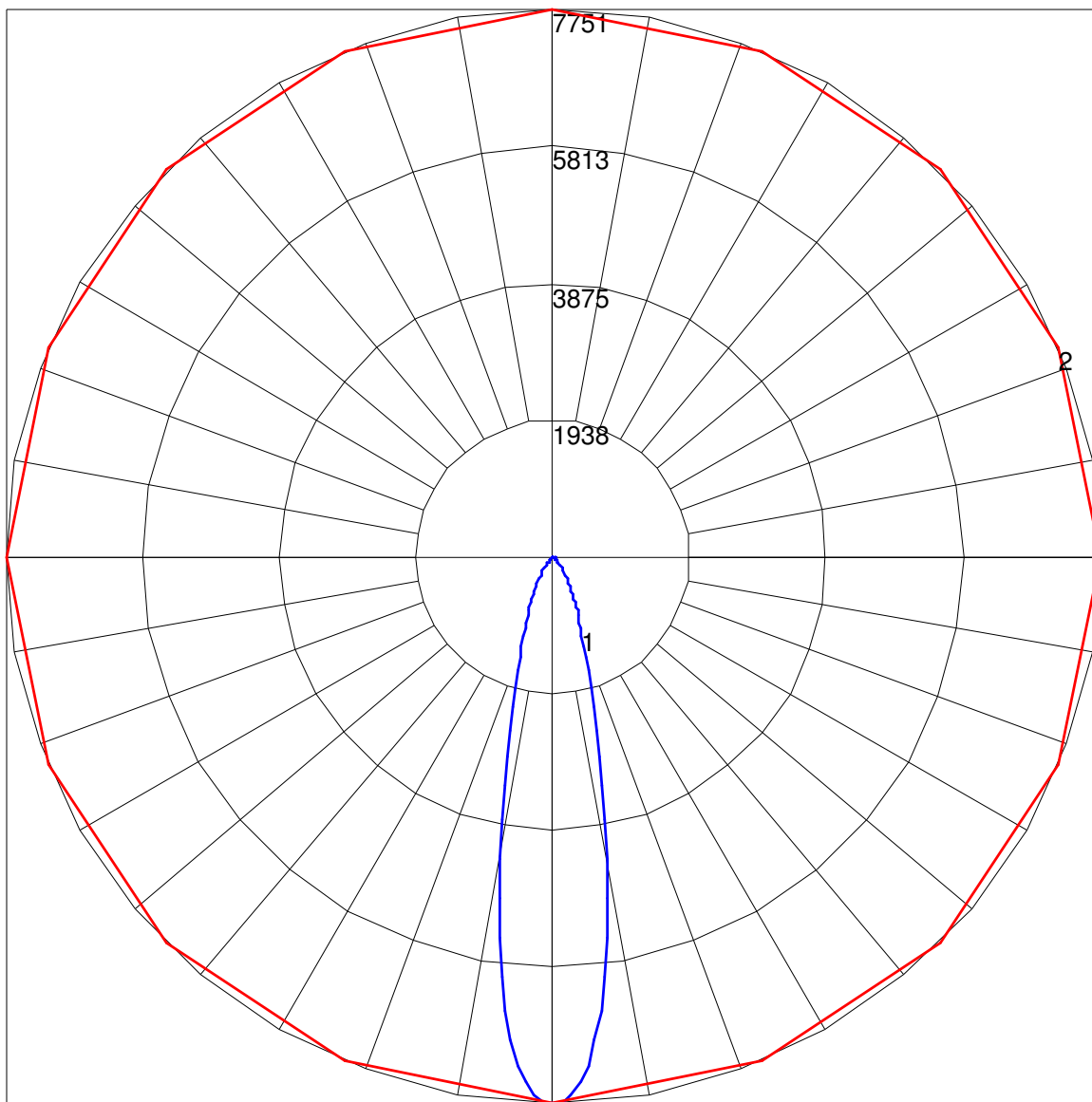
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	864.5	50.0
Downward House Side	864.5	50.0
Downward Total	1729.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	1729.0	100.0

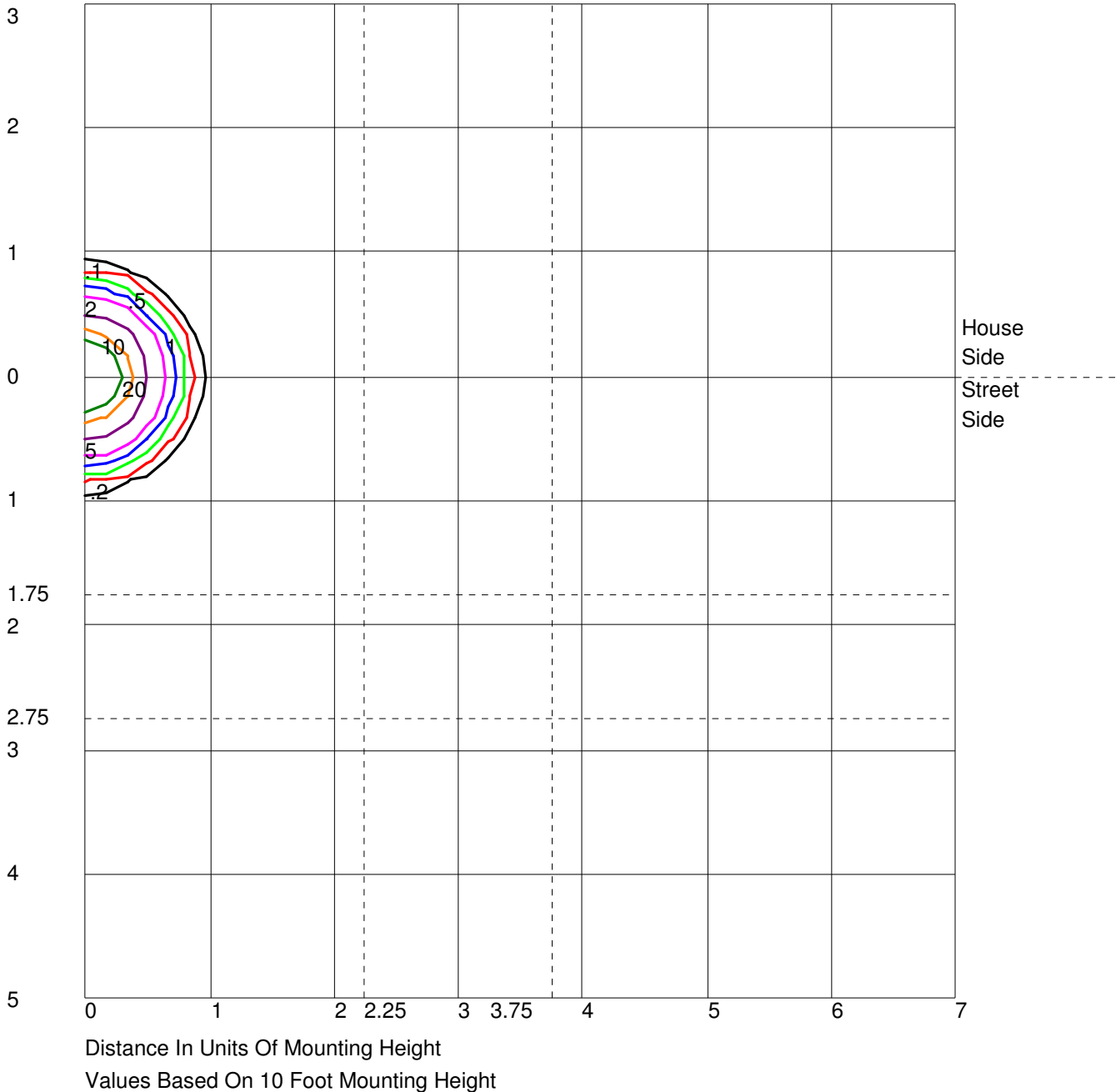
POLAR GRAPH



Maximum Candela = 7750.726 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

