

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L20-830-XXX-DIM-UNV-M-XXX\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM W6CR\_Angela-W\_(V18)\_measured  
[TESTLAB] LEDIL Inc  
[TESTDATE] 21 Aug 2024  
[ISSUEDATE] 2025-07-15  
[MANUFAC] H.E. WILLIAMS, INC.  
[LUMCAT] W6CR-xx-L20-830-xxx-DIM-UNV-M-xxx  
[LUMINAIRE] 6 INCH ROUND WET LOCATION LED  
[MORE] CYLINDER WITH MEDIUM DIST.  
[LAMPCAT] BL VERO  
[LAMP] LED  
[OTHER] Absolute Photometry

### CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1978
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	20.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4211.425
Maximum Candela Angle	0H 2V
Maximum Candela (<90 Degrees Vertical)	4211.425
Maximum Candela Angle (<90 Degrees Vertical)	0H 2V
Maximum Candela At 90 Degrees Vertical	.151 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3.286 (0.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L20-830-XXX-DIM-UNV-M-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	828.4	N.A.	41.9
FM - Front-Medium (30-60)	149.6	N.A.	7.6
FH - Front-High (60-80)	10.4	N.A.	0.5
FVH - Front-Very High (80-90)	0.5	N.A.	0.0
BL - Back-Low (0-30)	828.4	N.A.	41.9
BM - Back-Medium (30-60)	149.6	N.A.	7.6
BH - Back-High (60-80)	10.4	N.A.	0.5
BVH - Back-Very High (80-90)	0.5	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	1977.9	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	4201.877	4201.877	4201.877	4201.877	4201.877
1	4207.278	4207.173	4205.274	4203.920	4202.218
2	4211.425	4208.803	4203.618	4198.663	4193.623
3	4209.125	4205.938	4196.633	4187.367	4179.284
4	4201.778	4194.990	4180.920	4167.107	4158.742
5	4175.387	4167.134	4148.563	4129.768	4120.509
6	4129.322	4118.374	4092.982	4069.857	4058.068
7	4052.423	4039.017	4010.569	3987.333	3970.063
8	3944.940	3931.679	3903.120	3881.743	3859.729
9	3806.349	3796.282	3771.823	3752.391	3729.752
10	3641.216	3638.548	3618.117	3602.990	3585.910
11	3457.268	3459.338	3446.944	3436.187	3421.296
12	3264.042	3265.238	3260.822	3257.431	3243.178
13	3065.026	3066.432	3069.790	3070.316	3056.845
14	2860.720	2862.035	2873.081	2877.267	2865.761
15	2656.158	2658.820	2673.395	2681.485	2672.094
16	2455.309	2459.154	2474.209	2485.367	2478.322
17	2260.341	2268.865	2279.372	2294.119	2287.909
18	2075.684	2084.799	2094.866	2107.805	2104.020
19	1903.309	1909.644	1922.090	1933.590	1928.149
20	1748.559	1748.710	1761.044	1773.096	1769.252
21	1600.761	1601.102	1612.129	1624.319	1618.904
22	1471.093	1468.622	1480.273	1490.407	1487.581
23	1358.761	1354.831	1365.832	1373.435	1373.409
24	1259.809	1256.424	1265.197	1271.157	1271.631
25	1172.008	1170.233	1175.458	1181.300	1180.958
26	1095.240	1092.658	1094.754	1100.484	1098.066
27	1023.342	1019.491	1020.760	1024.525	1023.651
28	952.653	947.856	946.365	950.689	956.393
29	878.679	875.525	872.456	874.789	877.568
30	803.291	797.318	791.410	796.142	797.686
31	715.990	711.968	706.442	709.254	711.443
32	623.228	621.210	615.644	620.869	621.348
33	526.739	526.023	522.409	527.935	529.184
34	431.276	431.795	430.383	436.093	436.875
35	343.193	343.607	344.185	351.157	351.223
36	266.485	268.298	269.928	277.939	276.913
37	202.755	205.213	209.569	214.084	214.209
38	157.964	155.086	160.238	166.691	165.377
39	119.055	121.210	127.709	128.688	132.927
40	97.257	97.822	100.819	103.572	105.136
41	81.229	82.787	84.857	85.501	86.171
42	71.136	71.510	73.028	74.290	73.738
43	63.736	64.058	65.024	65.182	65.005
44	57.973	58.367	58.906	58.781	58.453
45	53.176	53.616	53.938	53.643	53.334
46	48.951	49.345	49.614	49.246	48.937
47	45.027	45.428	45.658	45.303	44.916
48	41.492	41.867	42.077	41.729	41.328
49	38.325	38.633	38.817	38.482	38.062
50	35.433	35.670	35.854	35.532	35.131
51	32.837	33.054	33.192	32.897	32.522
52	30.518	30.689	30.787	30.544	30.163

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L20-830-XXX-DIM-UNV-M-XXX\_.IES****CANDELA TABULATION - (Cont.)**

53	28.461	28.573	28.665	28.454	28.080
54	26.614	26.700	26.765	26.555	26.227
55	24.912	24.958	25.031	24.820	24.544
56	23.269	23.335	23.368	23.204	22.980
57	21.791	21.837	21.857	21.712	21.535
58	20.483	20.516	20.529	20.391	20.227
59	19.307	19.320	19.313	19.189	19.051
60	18.236	18.229	18.223	18.104	17.986
61	17.257	17.230	17.217	17.105	16.994
62	16.350	16.323	16.291	16.185	16.074
63	15.515	15.469	15.436	15.325	15.213
64	14.694	14.654	14.615	14.503	14.398
65	13.918	13.885	13.833	13.728	13.623
66	13.156	13.123	13.057	12.959	12.854
67	12.420	12.387	12.321	12.216	12.124
68	11.697	11.664	11.599	11.487	11.401
69	10.974	10.948	10.882	10.777	10.679
70	10.271	10.232	10.173	10.074	9.969
71	9.568	9.515	9.463	9.371	9.272
72	8.858	8.806	8.760	8.668	8.589
73	8.149	8.103	8.057	7.978	7.886
74	7.439	7.406	7.353	7.288	7.222
75	6.749	6.723	6.670	6.611	6.552
76	6.052	6.039	5.987	5.941	5.895
77	5.375	5.362	5.323	5.290	5.251
78	4.685	4.679	4.659	4.620	4.613
79	3.995	3.989	3.976	3.963	3.956
80	3.273	3.286	3.273	3.286	3.259
81	2.477	2.504	2.484	2.484	2.458
82	1.400	1.433	1.452	1.465	1.479
83	0.631	0.644	0.729	0.782	0.841
84	0.578	0.585	0.585	0.578	0.578
85	0.532	0.532	0.532	0.532	0.532
86	0.473	0.473	0.480	0.473	0.473
87	0.401	0.401	0.401	0.407	0.401
88	0.309	0.315	0.315	0.315	0.309
89	0.210	0.217	0.217	0.217	0.217
90	0.125	0.131	0.145	0.151	0.151
91	0.125	0.131	0.131	0.131	0.125
92	0.125	0.125	0.131	0.131	0.131
93	0.125	0.131	0.131	0.131	0.131
94	0.125	0.131	0.131	0.131	0.131
95	0.131	0.131	0.131	0.138	0.131
96	0.131	0.131	0.138	0.138	0.131
97	0.131	0.138	0.138	0.138	0.131
98	0.131	0.145	0.145	0.138	0.138
99	0.138	0.145	0.145	0.145	0.138
100	0.138	0.145	0.145	0.145	0.138
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

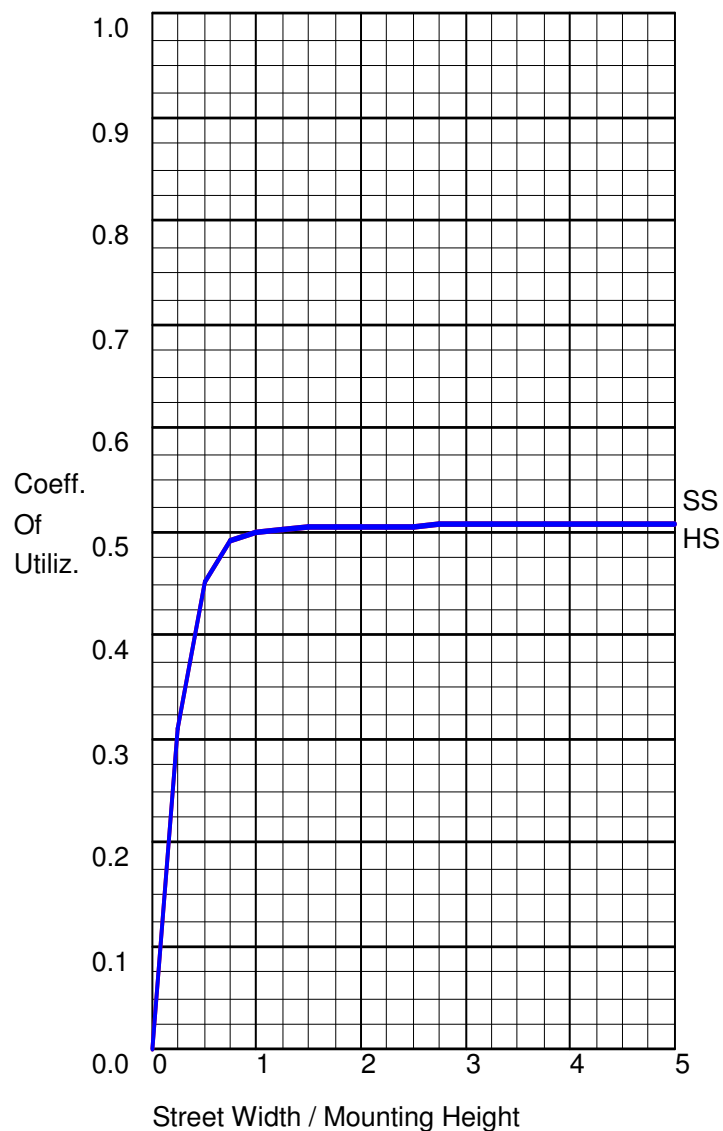
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L20-830-XXX-DIM-UNV-M-XXX\_.IES****CANDELA TABULATION - (Cont.)**

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 : W6CR-XX-L20-830-XXX-DIM-UNV-M-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

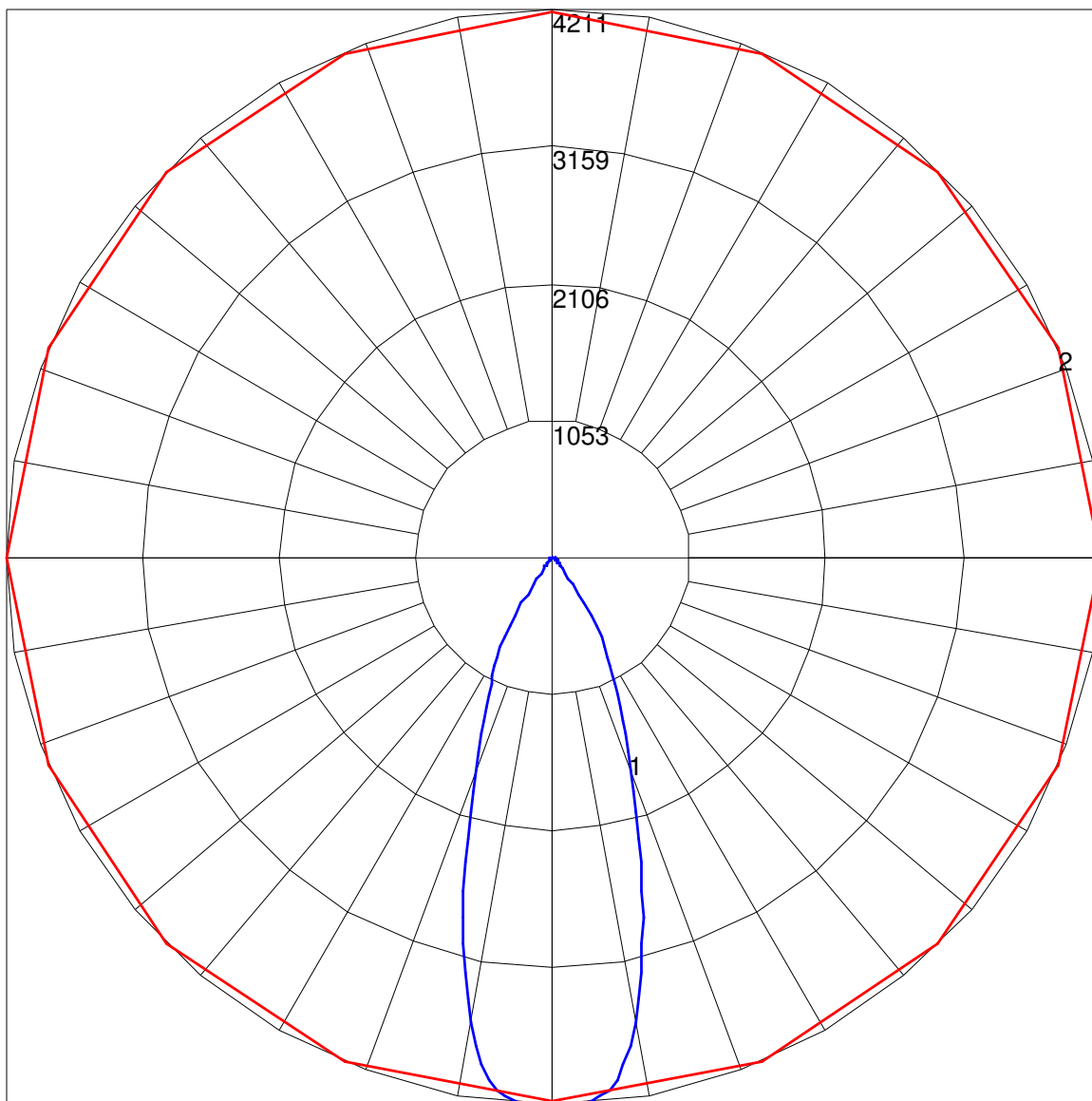
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	988.9	50.0
Downward House Side	988.9	50.0
Downward Total	1977.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1978.0	100.0

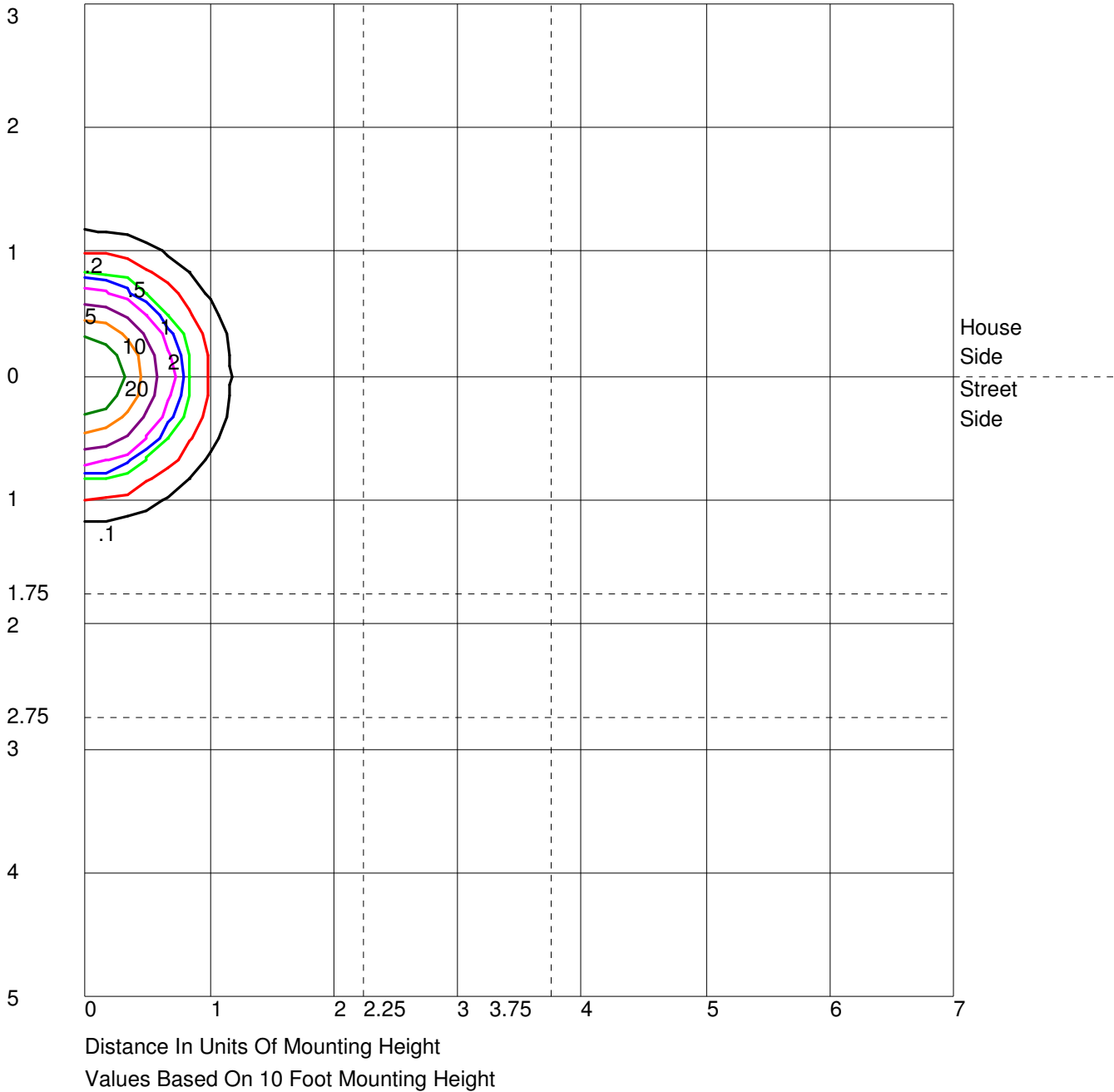
POLAR GRAPH



Maximum Candela = 4211.425 Located At Horizontal Angle = 0, Vertical Angle = 2  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)



ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



# PHOTO IES R

