

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L20-927-XXX-DIM-UNV-N-XXX\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] W6CR\_Angela-M\_(V18)\_measured  
[TESTLAB] LEDIL Inc  
[TESTDATE] 21 Aug 2024  
[ISSUEDATE] 2025-07-15  
[MANUFAC] H.E. WILLIAMS, INC.  
[LUMCAT] W6CR-xx-L20-927-xxx-DIM-UNV-N-xxx  
[LUMINAIRE] 6 INCH ROUND WET LOCATION LED  
[MORE] CYLINDER WITH NARROW DIST.  
[LAMPCAT] BL V18 COB  
[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	1806
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	20.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5323.829
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	5323.829
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.163 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3.577 (0.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L20-927-XXX-DIM-UNV-N-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	708.2	N.A.	39.2
FM - Front-Medium (30-60)	181.1	N.A.	10.0
FH - Front-High (60-80)	13.4	N.A.	0.7
FVH - Front-Very High (80-90)	0.5	N.A.	0.0
BL - Back-Low (0-30)	708.2	N.A.	39.2
BM - Back-Medium (30-60)	181.1	N.A.	10.0
BH - Back-High (60-80)	13.4	N.A.	0.7
BVH - Back-Very High (80-90)	0.5	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	1806.6	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	5323.829	5323.829	5323.829	5323.829	5323.829
1	5289.585	5288.099	5289.018	5288.972	5287.044
2	5196.176	5194.788	5194.143	5194.488	5192.533
3	5046.637	5043.693	5043.113	5044.129	5039.849
4	4841.075	4839.446	4836.735	4837.348	4834.696
5	4584.211	4583.207	4586.602	4586.928	4588.341
6	4294.060	4293.051	4298.126	4304.439	4309.945
7	3981.113	3982.768	3992.398	4002.939	4007.194
8	3656.080	3660.634	3673.118	3688.539	3693.536
9	3338.853	3342.918	3357.929	3377.664	3386.740
10	3037.001	3041.027	3058.384	3078.568	3089.931
11	2756.083	2759.503	2776.000	2797.220	2809.664
12	2499.545	2503.721	2519.260	2539.802	2548.722
13	2270.696	2275.127	2291.532	2313.586	2316.961
14	2069.329	2076.359	2092.654	2106.258	2112.486
15	1899.535	1900.343	1911.836	1926.958	1935.265
16	1740.791	1745.665	1761.236	1775.029	1785.890
17	1611.366	1615.249	1624.696	1638.573	1645.616
18	1501.225	1504.411	1512.757	1524.993	1530.557
19	1408.950	1411.412	1418.586	1427.727	1433.538
20	1332.011	1332.884	1338.324	1345.231	1349.974
21	1265.028	1264.246	1268.722	1274.214	1278.215
22	1208.078	1204.423	1208.280	1212.345	1216.313
23	1157.037	1151.786	1154.972	1157.695	1162.184
24	1108.623	1104.798	1105.743	1107.951	1112.695
25	1064.449	1060.859	1059.934	1061.387	1065.140
26	1020.745	1017.442	1014.725	1016.282	1018.966
27	976.604	971.972	968.753	969.072	972.714
28	927.655	922.280	916.488	916.566	920.045
29	869.558	866.587	860.059	860.300	865.258
30	808.341	804.249	792.561	794.809	799.181
31	732.171	728.457	719.427	719.173	723.858
32	646.776	644.984	637.759	640.658	643.199
33	556.416	555.732	551.041	555.875	558.722
34	465.762	466.414	464.987	470.636	473.216
35	380.947	381.807	383.449	390.563	392.231
36	306.536	307.005	311.996	319.560	321.508
37	244.120	247.026	251.749	260.623	260.363
38	195.477	199.295	205.700	210.475	211.485
39	164.341	163.409	168.901	173.586	174.596
40	136.892	139.127	144.749	147.694	150.392
41	120.786	122.102	125.132	127.152	128.253
42	109.352	110.056	112.329	113.606	114.212
43	100.556	101.006	102.824	103.560	104.218
44	93.214	93.663	94.940	95.566	95.826
45	86.744	87.239	88.386	88.692	88.979
46	80.750	81.278	82.242	82.653	82.887
47	75.095	75.583	76.515	76.932	77.160
48	69.759	70.254	71.134	71.616	71.844
49	64.775	65.218	66.045	66.553	66.768
50	60.084	60.442	61.269	61.765	61.986
51	55.699	56.044	56.806	57.315	57.543
52	51.627	51.920	52.637	53.151	53.327

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L20-927-XXX-DIM-UNV-N-XXX\_.IES****CANDELA TABULATION - (Cont.)**

53	47.822	48.109	48.767	49.288	49.444
54	44.323	44.577	45.157	45.646	45.815
55	41.000	41.209	41.782	42.206	42.401
56	37.769	37.971	38.505	38.903	39.085
57	34.707	34.909	35.404	35.756	35.938
58	31.951	32.127	32.576	32.896	33.078
59	29.410	29.560	29.964	30.263	30.439
60	27.064	27.208	27.586	27.840	28.003
61	24.940	25.058	25.403	25.631	25.748
62	22.999	23.116	23.409	23.618	23.716
63	21.220	21.324	21.598	21.767	21.846
64	19.617	19.670	19.930	20.073	20.119
65	18.138	18.178	18.412	18.523	18.568
66	16.744	16.790	16.972	17.083	17.103
67	15.461	15.506	15.669	15.754	15.773
68	14.275	14.321	14.451	14.523	14.529
69	13.174	13.187	13.317	13.369	13.363
70	12.131	12.144	12.249	12.288	12.275
71	11.148	11.148	11.232	11.265	11.239
72	10.229	10.203	10.275	10.294	10.288
73	9.317	9.297	9.356	9.362	9.343
74	8.437	8.424	8.463	8.476	8.457
75	7.597	7.577	7.603	7.623	7.597
76	6.763	6.743	6.763	6.776	6.763
77	5.935	5.929	5.955	5.955	5.955
78	5.128	5.121	5.147	5.147	5.160
79	4.320	4.313	4.352	4.359	4.365
80	3.512	3.512	3.551	3.577	3.570
81	2.645	2.671	2.691	2.710	2.697
82	1.538	1.577	1.616	1.609	1.622
83	0.769	0.769	0.834	0.867	0.919
84	0.697	0.697	0.704	0.697	0.697
85	0.645	0.645	0.645	0.645	0.645
86	0.573	0.580	0.580	0.573	0.580
87	0.489	0.489	0.495	0.489	0.489
88	0.378	0.384	0.384	0.378	0.378
89	0.254	0.254	0.254	0.254	0.254
90	0.143	0.150	0.156	0.163	0.163
91	0.137	0.143	0.137	0.137	0.130
92	0.143	0.143	0.143	0.143	0.130
93	0.143	0.143	0.143	0.143	0.130
94	0.143	0.150	0.150	0.143	0.137
95	0.150	0.150	0.150	0.143	0.143
96	0.150	0.156	0.156	0.150	0.156
97	0.163	0.163	0.163	0.163	0.163
98	0.169	0.169	0.163	0.169	0.169
99	0.176	0.182	0.176	0.169	0.176
100	0.176	0.182	0.182	0.176	0.176
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

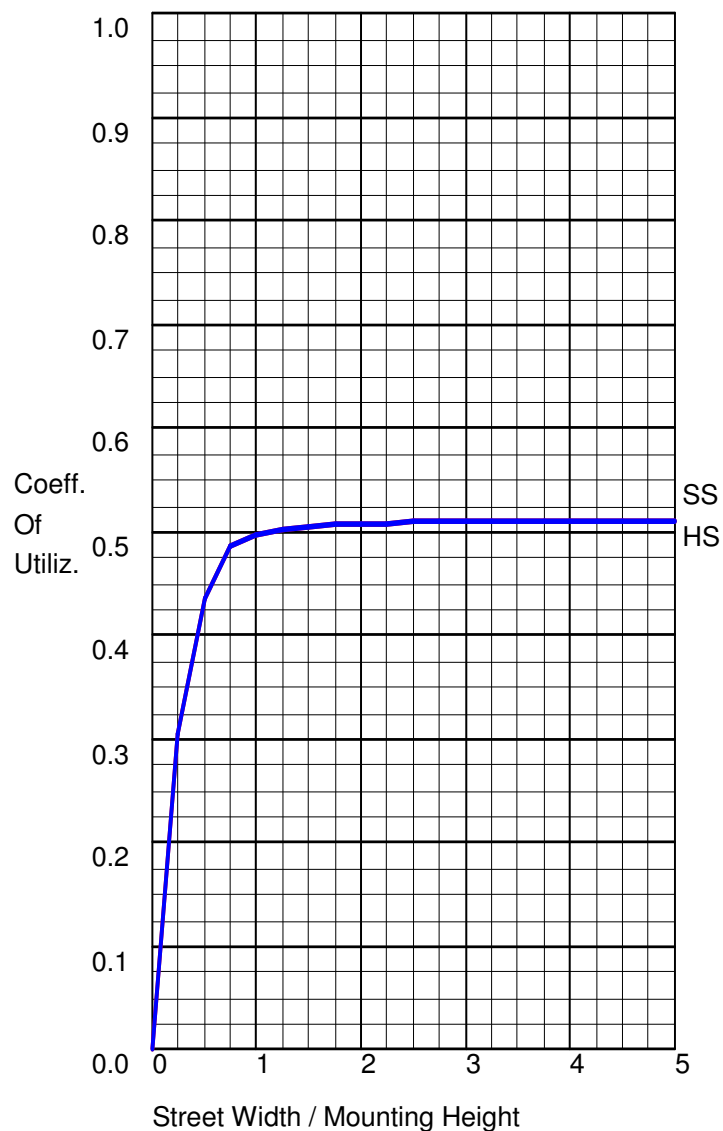
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L20-927-XXX-DIM-UNV-N-XXX\_.IES****CANDELA TABULATION - (Cont.)**

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

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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

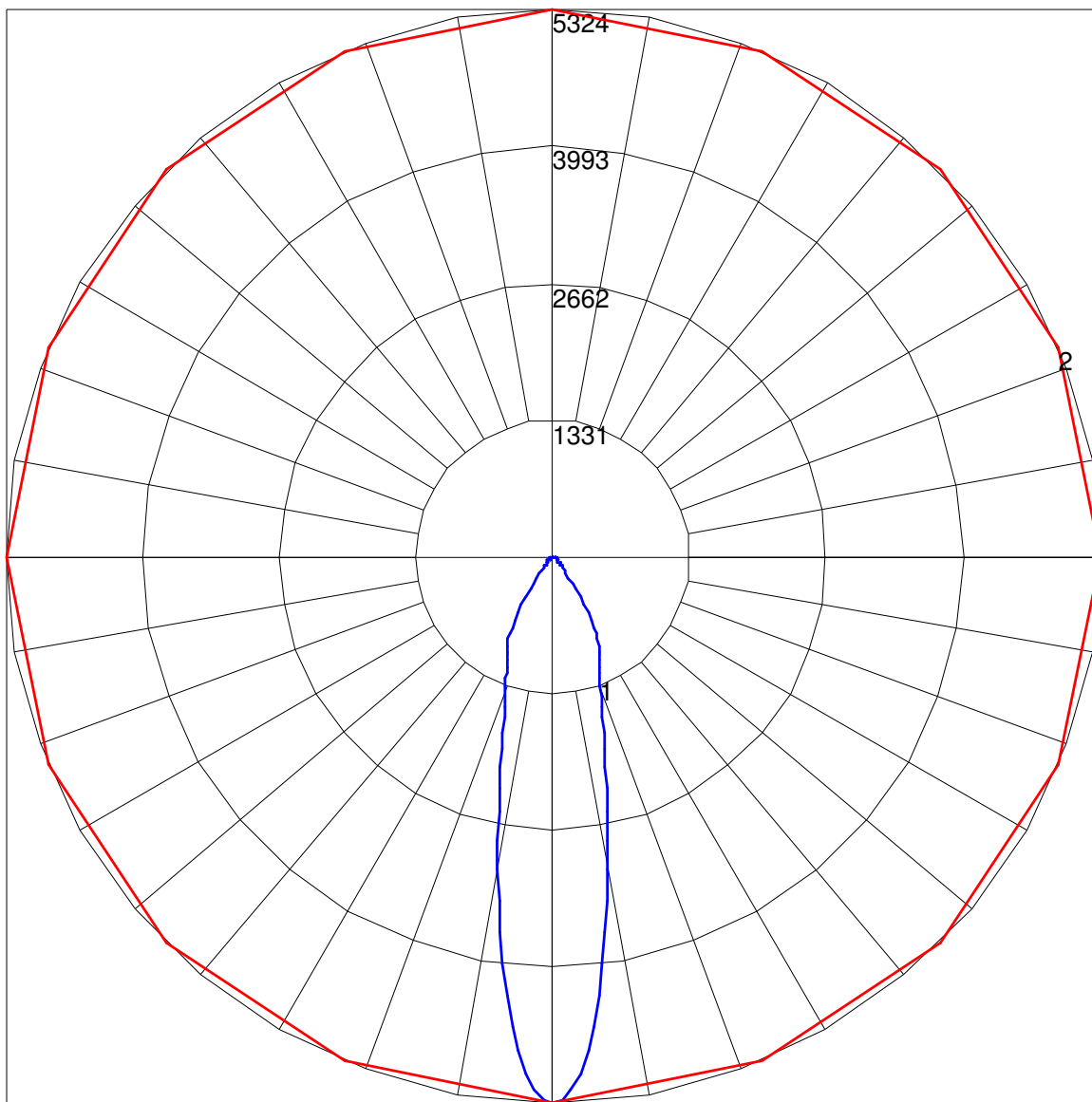
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	903.2	50.0
Downward House Side	903.2	50.0
Downward Total	1806.4	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1806.6	100.0

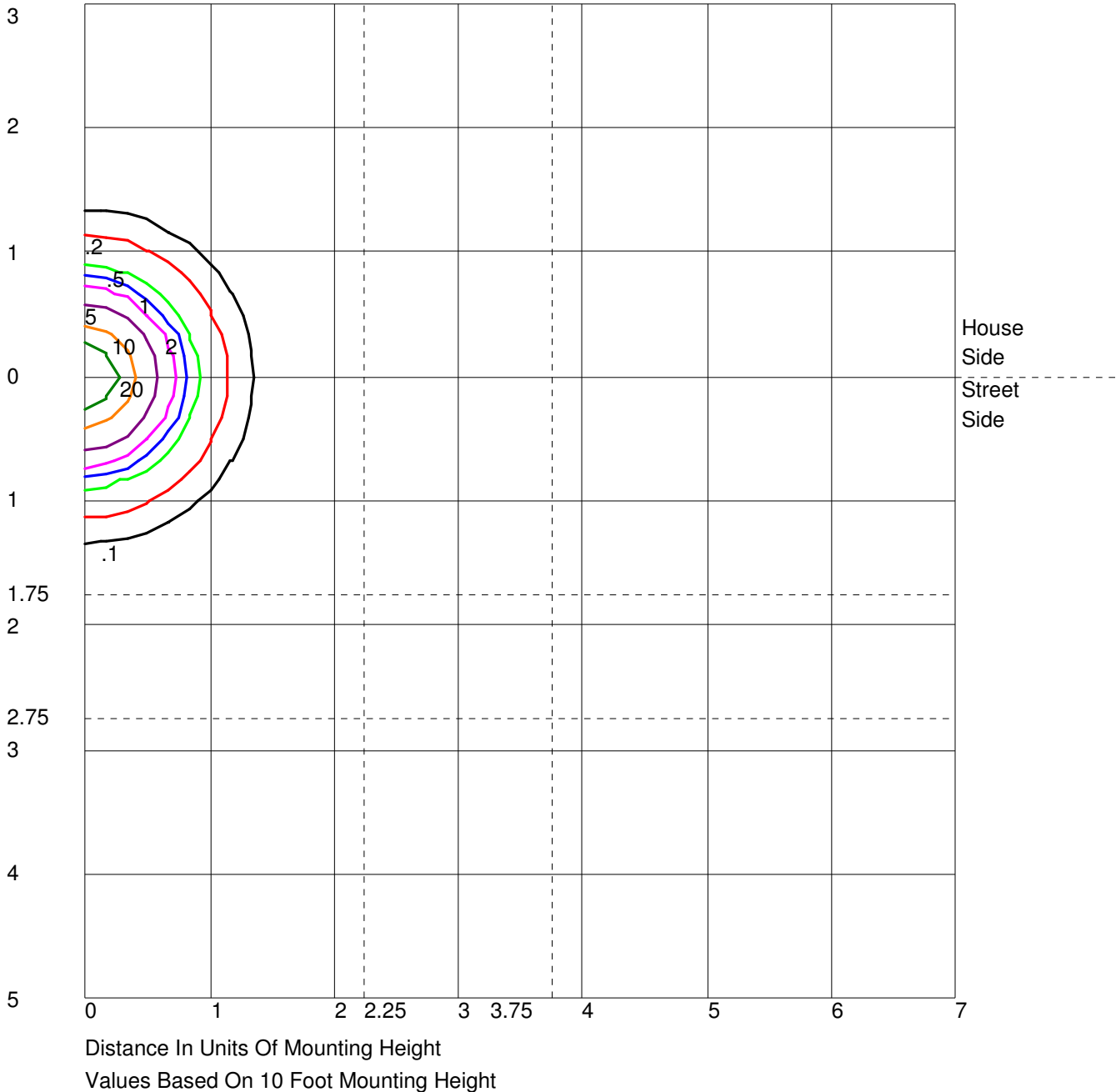
POLAR GRAPH



Maximum Candela = 5323.829 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

