

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-850-XXX-DIM-UNV-N-XXX\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] W4CR\_BARBARA-NARROW  
[TESTLAB] LEDIL Inc  
[TESTDATE] 07/03/2025  
[ISSUEDATE] 2025-07-15  
[MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMINAIRE] 4 INCH ROUND OUTDOOR LED CYLINDER  
[MORE] NARROW DIST. W/MICROPRISIM LENS  
[LUMCAT] W4CR-xx-L20-850-xxx-DIM-UNV-N-xxx  
[MORE] 0-10V 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	2151
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6101.098
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	6101.098
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.197 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.983 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-850-XXX-DIM-UNV-N-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	945.5	N.A.	44.0
FM - Front-Medium (30-60)	123.5	N.A.	5.7
FH - Front-High (60-80)	6.1	N.A.	0.3
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	945.5	N.A.	44.0
BM - Back-Medium (30-60)	123.5	N.A.	5.7
BH - Back-High (60-80)	6.1	N.A.	0.3
BVH - Back-Very High (80-90)	0.3	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	2151.0	N.A.	100.0
BUG Rating	B2-U1-G0		

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-850-XXX-DIM-UNV-N-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	6101.098	6101.098	6101.098	6101.098	6101.098
1	6093.857	6093.580	6092.400	6092.101	6094.323
2	6063.922	6062.145	6060.972	6051.210	6049.178
3	6008.032	5998.947	6000.477	5994.758	5997.665
4	5918.834	5913.836	5908.766	5902.588	5907.695
5	5794.893	5802.499	5787.434	5777.941	5790.479
6	5641.361	5646.658	5635.584	5631.345	5640.232
7	5469.260	5461.953	5454.413	5455.804	5462.732
8	5259.786	5249.143	5246.287	5244.801	5255.094
9	5015.825	5009.640	5001.947	5001.932	5021.070
10	4742.782	4735.788	4730.740	4730.354	4754.853
11	4436.745	4430.888	4434.144	4439.681	4461.689
12	4106.740	4103.338	4111.337	4120.953	4149.744
13	3761.211	3764.431	3777.369	3790.584	3817.146
14	3411.938	3418.072	3440.466	3457.032	3477.313
15	3069.614	3080.556	3109.623	3128.513	3147.855
16	2742.866	2759.803	2792.790	2818.492	2828.508
17	2448.383	2465.728	2504.558	2524.919	2530.959
18	2185.007	2192.161	2235.208	2256.000	2262.410
19	1935.546	1956.672	2001.060	2018.121	2024.285
20	1726.553	1748.393	1787.565	1812.443	1818.118
21	1549.927	1568.650	1607.311	1626.638	1624.701
22	1401.735	1420.618	1454.143	1469.974	1466.885
23	1280.614	1294.521	1324.943	1338.953	1333.664
24	1176.948	1188.619	1217.948	1228.009	1222.494
25	1086.548	1098.882	1125.443	1133.369	1126.208
26	1005.444	1017.712	1041.366	1048.047	1041.811
27	930.182	939.281	961.697	967.401	962.018
28	854.148	860.952	880.637	885.518	881.890
29	777.175	783.003	796.859	802.964	801.521
30	697.010	699.268	711.434	718.086	716.286
31	612.365	613.720	622.572	628.531	628.625
32	529.265	528.478	534.109	540.280	540.418
33	444.729	443.323	448.190	453.610	452.998
34	363.698	363.130	366.335	371.034	371.172
35	292.880	288.866	292.006	294.119	292.997
36	225.013	224.080	225.734	226.914	224.736
37	169.559	169.923	168.190	168.095	170.499
38	125.769	127.641	123.569	124.538	125.011
39	92.214	91.296	91.915	90.225	89.868
40	70.592	67.365	67.481	67.379	67.365
41	51.381	51.432	52.343	52.700	53.305
42	41.007	41.466	42.880	43.681	44.679
43	35.289	35.719	37.263	38.334	39.135
44	32.338	32.659	34.160	35.281	35.791
45	31.027	31.246	32.717	33.613	34.028
46	30.597	30.874	32.156	32.848	33.227
47	30.736	31.005	32.076	32.630	33.008
48	31.107	31.289	32.200	32.601	33.008
49	31.326	31.522	32.287	32.564	32.921
50	31.347	31.500	32.185	32.397	32.666
51	31.005	31.122	31.763	31.923	32.112
52	30.073	30.218	30.779	30.859	30.976

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-850-XXX-DIM-UNV-N-XXX\_.IES****CANDELA TABULATION - (Cont.)**

53	28.674	28.798	29.330	29.322	29.395
54	26.889	27.035	27.486	27.414	27.501
55	24.893	24.980	25.388	25.279	25.330
56	22.729	22.773	23.057	22.984	22.999
57	20.427	20.478	20.653	20.609	20.580
58	18.227	18.264	18.351	18.315	18.285
59	16.187	16.173	16.195	16.151	16.136
60	14.330	14.301	14.264	14.257	14.250
61	12.727	12.676	12.632	12.603	12.618
62	11.357	11.285	11.248	11.219	11.234
63	10.221	10.163	10.090	10.068	10.097
64	9.259	9.216	9.157	9.121	9.172
65	8.494	8.451	8.400	8.349	8.407
66	7.810	7.788	7.729	7.693	7.759
67	7.241	7.219	7.154	7.132	7.198
68	6.710	6.695	6.644	6.608	6.688
69	6.229	6.221	6.156	6.127	6.200
70	5.784	5.770	5.704	5.660	5.719
71	5.340	5.340	5.253	5.202	5.238
72	4.917	4.910	4.815	4.750	4.794
73	4.488	4.480	4.371	4.291	4.327
74	4.036	4.029	3.912	3.817	3.854
75	3.562	3.526	3.424	3.315	3.344
76	3.016	2.972	2.848	2.761	2.790
77	2.397	2.368	2.207	2.142	2.142
78	1.676	1.661	1.501	1.413	1.428
79	1.085	1.100	1.056	1.064	1.064
80	0.983	0.983	0.969	0.969	0.969
81	0.918	0.918	0.918	0.925	0.918
82	0.874	0.867	0.867	0.874	0.874
83	0.816	0.809	0.809	0.809	0.816
84	0.750	0.743	0.743	0.750	0.750
85	0.678	0.678	0.678	0.678	0.678
86	0.597	0.590	0.590	0.590	0.597
87	0.495	0.495	0.495	0.495	0.495
88	0.386	0.386	0.386	0.379	0.379
89	0.270	0.262	0.262	0.262	0.262
90	0.197	0.182	0.182	0.175	0.168
91	0.182	0.175	0.168	0.160	0.160
92	0.182	0.175	0.168	0.168	0.160
93	0.182	0.175	0.175	0.168	0.168
94	0.182	0.175	0.175	0.168	0.168
95	0.182	0.175	0.175	0.168	0.175
96	0.189	0.175	0.175	0.168	0.168
97	0.189	0.182	0.175	0.175	0.175
98	0.189	0.182	0.182	0.182	0.182
99	0.204	0.182	0.182	0.182	0.182
100	0.204	0.189	0.182	0.182	0.182
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

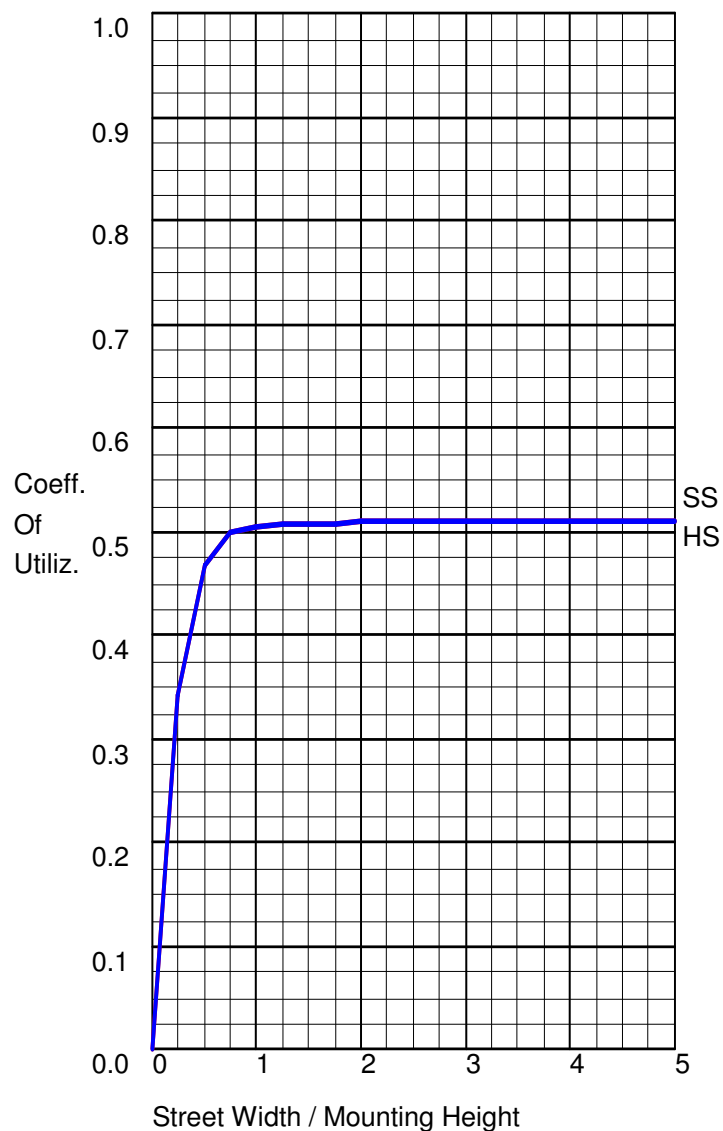
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-850-XXX-DIM-UNV-N-XXX\_.IES****CANDELA TABULATION - (Cont.)**

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

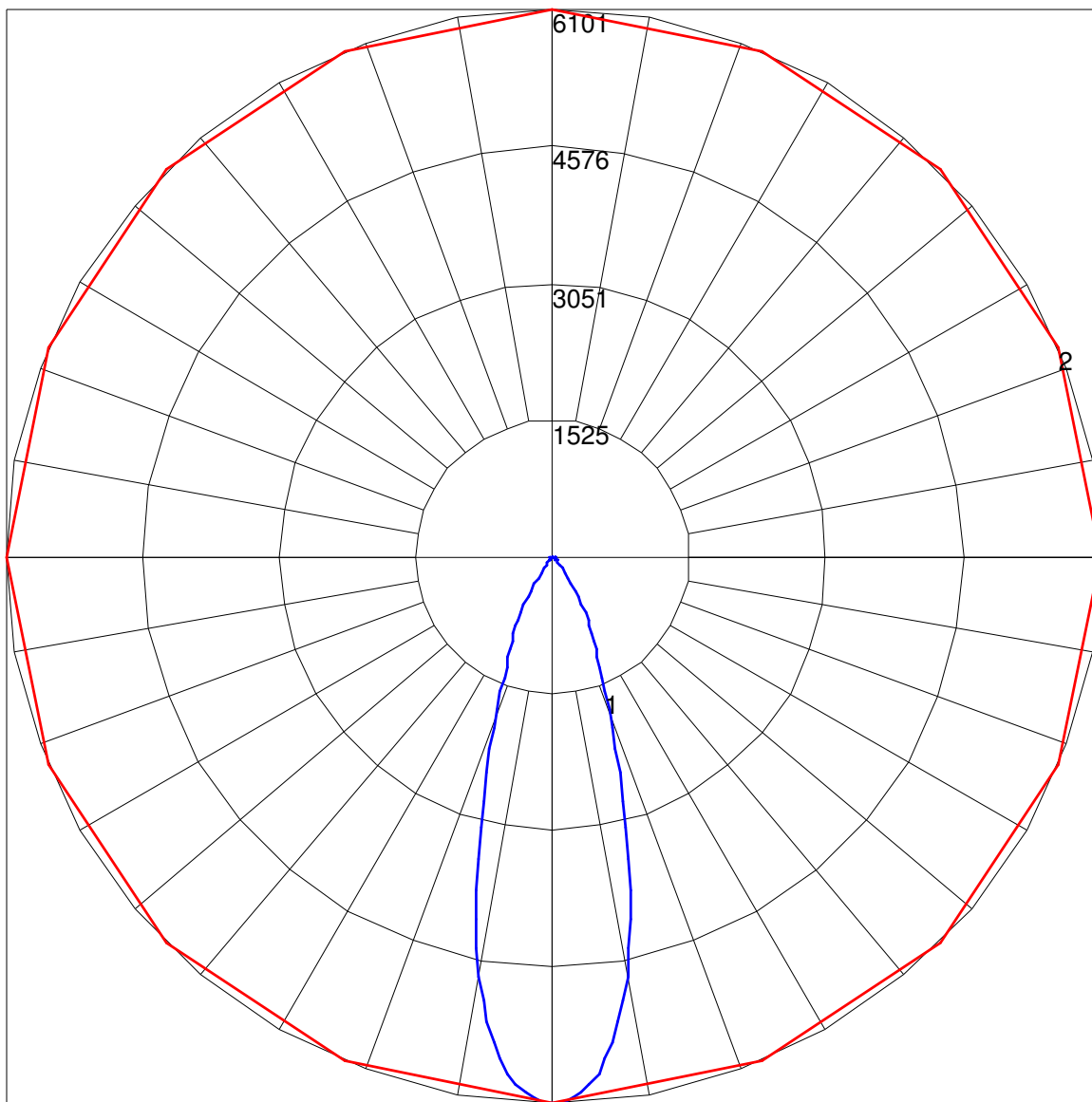
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1075.5	50.0
Downward House Side	1075.5	50.0
Downward Total	2151.0	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2151.2	100.0

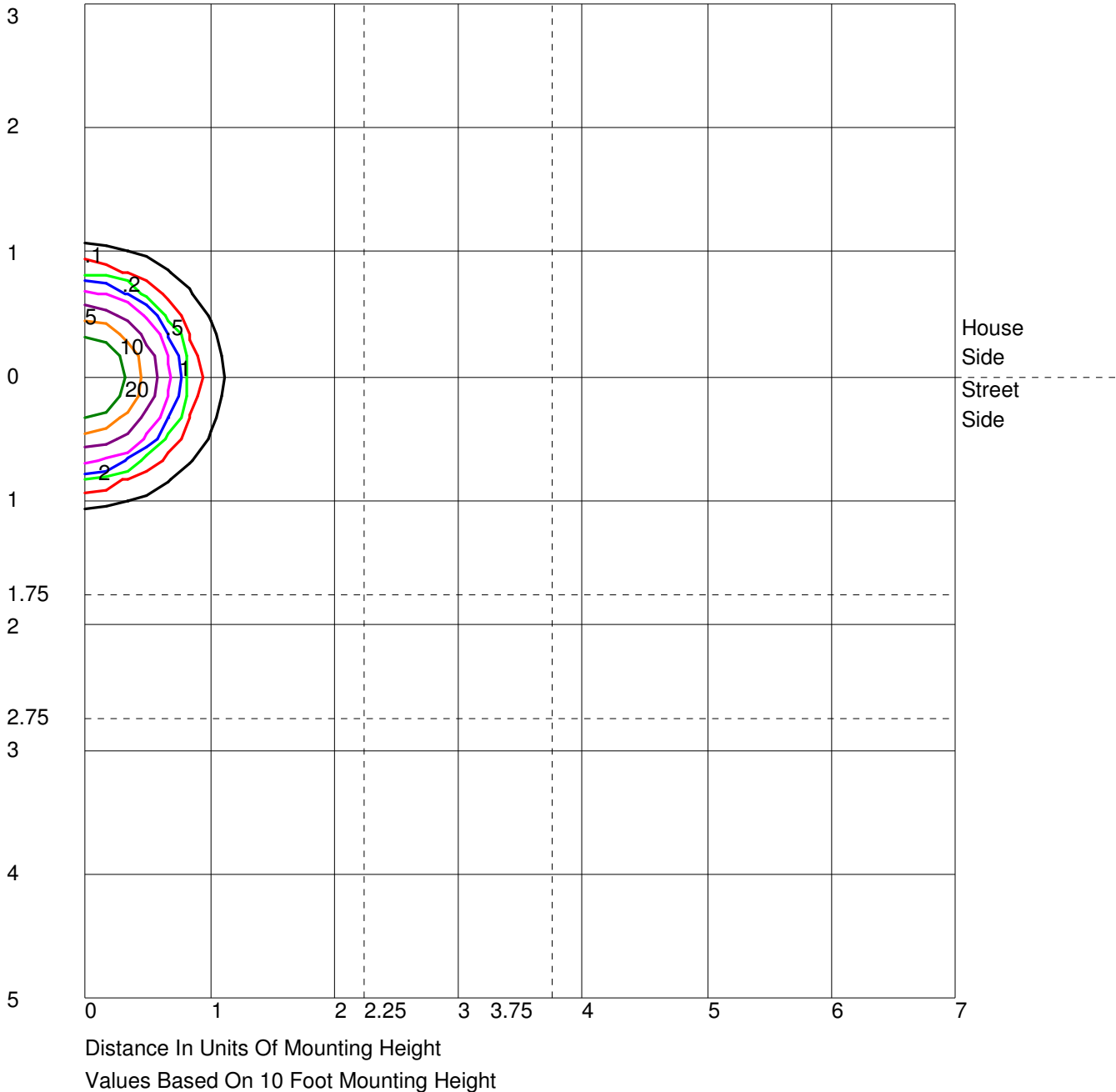
POLAR GRAPH



Maximum Candela = 6101.098 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

