

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-940-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/MICROPRISM LENS  
[LUMCAT] W4CR-xx-L20-940-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	2108
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5977.844
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	5977.844
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.193 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.964 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-940-XXX-DIM-UNV-N-XXX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	926.4	N.A.	44.0
FM - Front-Medium (30-60)	121.0	N.A.	5.7
FH - Front-High (60-80)	6.0	N.A.	0.3
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	926.4	N.A.	44.0
BM - Back-Medium (30-60)	121.0	N.A.	5.7
BH - Back-High (60-80)	6.0	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	2107.6	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	5977.844	5977.844	5977.844	5977.844	5977.844
1	5970.749	5970.477	5969.321	5969.028	5971.205
2	5941.419	5939.677	5938.528	5928.964	5926.972
3	5886.657	5877.757	5879.255	5873.652	5876.500
4	5799.261	5794.365	5789.397	5783.344	5788.348
5	5677.825	5685.277	5670.516	5661.215	5673.500
6	5527.395	5532.584	5521.734	5517.580	5526.288
7	5358.770	5351.611	5344.223	5345.586	5352.374
8	5153.528	5143.099	5140.301	5138.845	5148.931
9	4914.495	4908.435	4900.898	4900.883	4919.634
10	4646.968	4640.116	4635.169	4634.791	4658.796
11	4347.114	4341.375	4344.566	4349.990	4371.554
12	4023.776	4020.443	4028.280	4037.702	4065.911
13	3685.227	3688.382	3701.059	3714.007	3740.032
14	3343.010	3349.020	3370.961	3387.193	3407.065
15	3007.602	3018.323	3046.803	3065.311	3084.262
16	2687.454	2704.050	2736.370	2761.552	2771.367
17	2398.921	2415.916	2453.961	2473.911	2479.828
18	2140.866	2147.875	2190.052	2210.424	2216.705
19	1896.444	1917.144	1960.635	1977.351	1983.390
20	1691.673	1713.072	1751.452	1775.828	1781.389
21	1518.615	1536.960	1574.840	1593.777	1591.878
22	1373.417	1391.918	1424.767	1440.277	1437.251
23	1254.743	1268.369	1298.177	1311.903	1306.721
24	1153.171	1164.606	1193.343	1203.201	1197.797
25	1064.598	1076.682	1102.707	1110.473	1103.456
26	985.132	997.152	1020.329	1026.874	1020.764
27	911.391	920.306	942.269	947.858	942.583
28	836.893	843.559	862.846	867.628	864.074
29	761.474	767.184	780.761	786.742	785.329
30	682.929	685.142	697.062	703.579	701.816
31	599.994	601.322	609.994	615.833	615.926
32	518.573	517.802	523.319	529.365	529.501
33	435.745	434.367	439.135	444.446	443.846
34	356.351	355.794	358.934	363.538	363.674
35	286.963	283.030	286.107	288.177	287.078
36	220.467	219.553	221.174	222.330	220.196
37	166.134	166.491	164.792	164.699	167.054
38	123.228	125.062	121.072	122.022	122.486
39	90.351	89.452	90.058	88.402	88.053
40	69.166	66.004	66.118	66.018	66.004
41	50.343	50.393	51.286	51.635	52.228
42	40.179	40.629	42.013	42.799	43.776
43	34.576	34.997	36.510	37.559	38.345
44	31.685	31.999	33.469	34.569	35.068
45	30.400	30.614	32.056	32.934	33.341
46	29.979	30.250	31.507	32.185	32.556
47	30.115	30.379	31.428	31.970	32.342
48	30.479	30.657	31.549	31.942	32.342
49	30.693	30.886	31.635	31.906	32.256
50	30.714	30.864	31.535	31.742	32.006
51	30.379	30.493	31.121	31.278	31.464
52	29.465	29.608	30.157	30.236	30.350

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-940-XXX-DIM-UNV-N-XXX\_.IES****CANDELA TABULATION - (Cont.)**

53	28.095	28.216	28.737	28.730	28.801
54	26.346	26.489	26.931	26.860	26.945
55	24.390	24.476	24.875	24.768	24.818
56	22.270	22.313	22.591	22.520	22.534
57	20.015	20.065	20.236	20.193	20.164
58	17.859	17.895	17.980	17.945	17.916
59	15.860	15.846	15.867	15.825	15.810
60	14.040	14.012	13.976	13.969	13.962
61	12.470	12.420	12.377	12.348	12.363
62	11.128	11.057	11.021	10.992	11.007
63	10.014	9.957	9.886	9.865	9.893
64	9.072	9.029	8.972	8.937	8.987
65	8.323	8.280	8.230	8.180	8.237
66	7.652	7.630	7.573	7.538	7.602
67	7.095	7.074	7.009	6.988	7.052
68	6.574	6.560	6.510	6.474	6.553
69	6.103	6.096	6.031	6.003	6.074
70	5.667	5.653	5.589	5.546	5.603
71	5.232	5.232	5.146	5.096	5.132
72	4.818	4.811	4.718	4.654	4.697
73	4.397	4.390	4.283	4.204	4.240
74	3.954	3.947	3.833	3.740	3.776
75	3.490	3.455	3.355	3.248	3.276
76	2.955	2.912	2.791	2.705	2.734
77	2.348	2.320	2.163	2.099	2.099
78	1.642	1.627	1.470	1.385	1.399
79	1.064	1.078	1.035	1.042	1.042
80	0.964	0.964	0.949	0.949	0.949
81	0.899	0.899	0.899	0.907	0.899
82	0.857	0.849	0.849	0.857	0.857
83	0.799	0.792	0.792	0.792	0.799
84	0.735	0.728	0.728	0.735	0.735
85	0.664	0.664	0.664	0.664	0.664
86	0.585	0.578	0.578	0.578	0.585
87	0.485	0.485	0.485	0.485	0.485
88	0.378	0.378	0.378	0.371	0.371
89	0.264	0.257	0.257	0.257	0.257
90	0.193	0.178	0.178	0.171	0.164
91	0.178	0.171	0.164	0.157	0.157
92	0.178	0.171	0.164	0.164	0.157
93	0.178	0.171	0.171	0.164	0.164
94	0.178	0.171	0.171	0.164	0.164
95	0.178	0.171	0.171	0.164	0.171
96	0.186	0.171	0.171	0.164	0.164
97	0.186	0.178	0.171	0.171	0.171
98	0.186	0.178	0.178	0.178	0.178
99	0.200	0.178	0.178	0.178	0.178
100	0.200	0.186	0.178	0.178	0.178
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

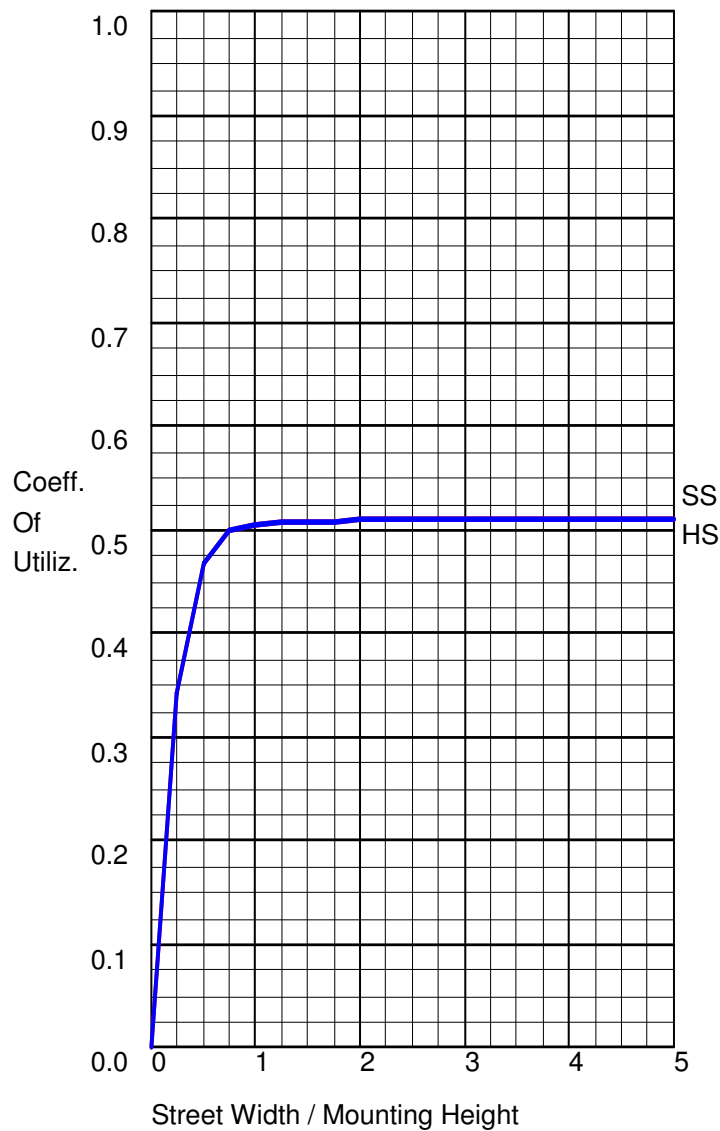
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-940-XXX-DIM-UNV-N-XXX\_.IES****CANDELA TABULATION - (Cont.)**

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

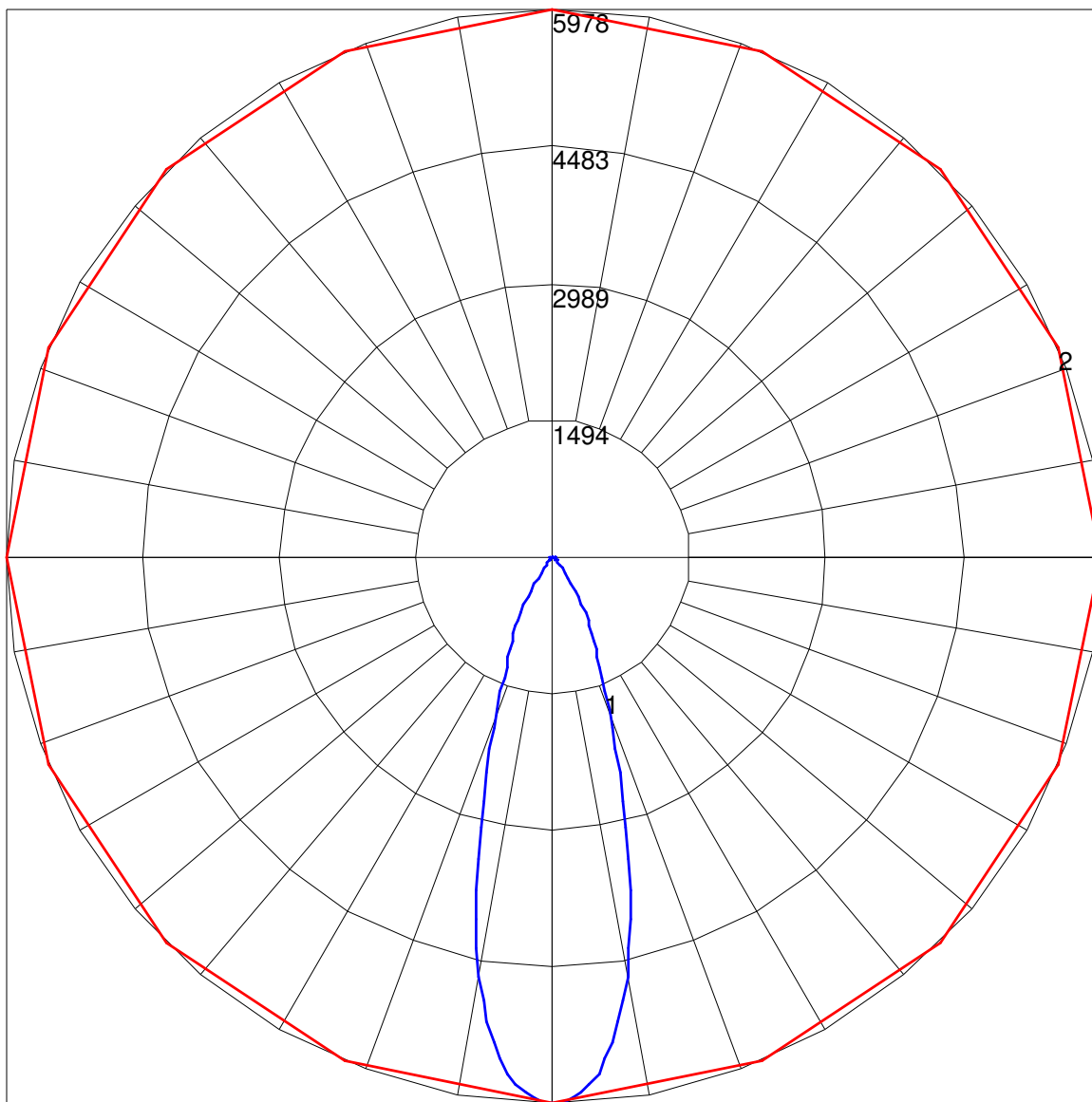
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

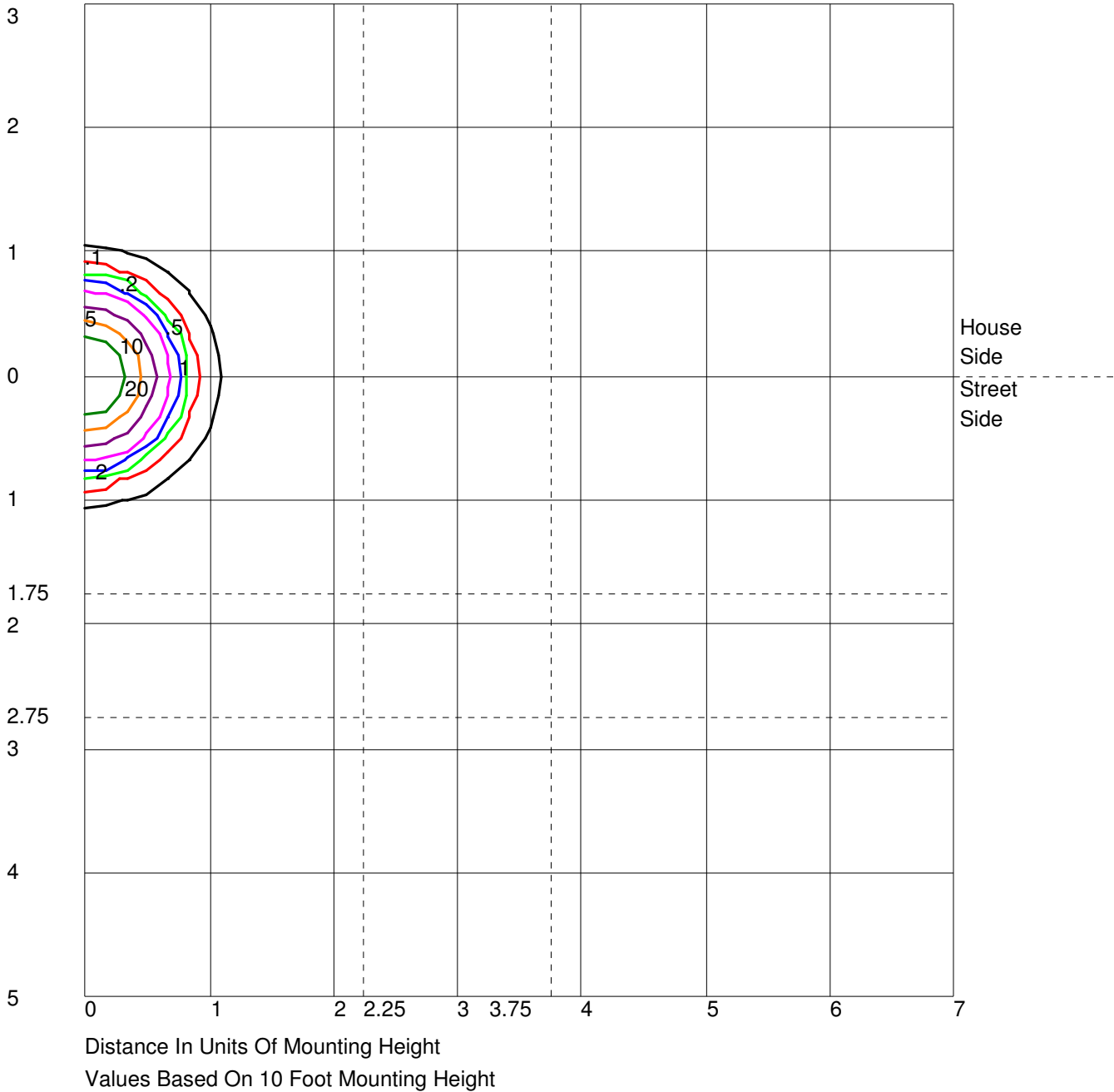
	Lumens	Percent Of Luminaire
Downward Street Side	1053.8	50.0
Downward House Side	1053.8	50.0
Downward Total	2107.6	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	2107.8	100.0

POLAR GRAPH



Maximum Candela = 5977.844 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

