



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-05L-40.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-11766  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/20  
[TEST DATE] 04/27/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] LXM4-PT-FT-LED-05L-40  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor

**CHARACTERISTICS**

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5054
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	39.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3379
Maximum Candela Angle	40H 72.5V
Maximum Candela (<90 Degrees Vertical)	3379
Maximum Candela Angle (<90 Degrees Vertical)	40H 72.5V
Maximum Candela At 90 Degrees Vertical	50 (1.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1097 (21.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	234.2	N.A.	4.6
FM - Front-Medium (30-60)	1516.5	N.A.	30.0
FH - Front-High (60-80)	1892.2	N.A.	37.4
FVH - Front-Very High (80-90)	113.6	N.A.	2.2
BL - Back-Low (0-30)	219.8	N.A.	4.3
BM - Back-Medium (30-60)	726.6	N.A.	14.4
BH - Back-High (60-80)	313.1	N.A.	6.2
BVH - Back-Very High (80-90)	27.1	N.A.	0.5
UL - Uplight-Low (90-100)	3.8	N.A.	0.1
UH - Uplight-High (100-180)	7.4	N.A.	0.1
Total	5054.3	N.A.	100.0
BUG Rating	B1-U1-G2		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>0</b>	<b>5</b>	<b>15</b>	<b>25</b>	<b>35</b>	<b>40</b>	<b>45</b>	<b>55</b>	<b>65</b>	<b>75</b>
<b>0.0</b>	420	420	420	420	420	420	420	420	420	420
<b>2.5</b>	416	418	411	413	415	415	419	422	421	422
<b>5.0</b>	371	379	390	400	411	406	391	393	390	387
<b>7.5</b>	360	374	389	372	372	364	373	385	413	405
<b>10.0</b>	368	372	379	361	373	384	397	406	411	416
<b>12.5</b>	372	402	379	375	397	394	408	416	428	449
<b>15.0</b>	401	424	414	429	444	421	432	453	462	479
<b>17.5</b>	428	451	436	451	468	476	482	477	499	533
<b>20.0</b>	497	499	492	494	510	510	520	532	537	569
<b>22.5</b>	544	555	569	568	562	548	558	594	586	619
<b>25.0</b>	612	602	624	624	627	643	622	644	641	649
<b>27.5</b>	699	737	733	697	688	709	705	696	686	713
<b>30.0</b>	799	788	781	775	753	756	776	756	756	776
<b>32.5</b>	930	937	870	837	850	844	825	834	824	809
<b>35.0</b>	1052	1027	985	947	910	911	908	903	870	866
<b>37.5</b>	1163	1142	1086	1023	1008	990	973	967	933	885
<b>40.0</b>	1245	1247	1204	1138	1100	1084	1074	1033	996	930
<b>42.5</b>	1322	1330	1291	1270	1205	1172	1163	1123	1043	958
<b>45.0</b>	1413	1420	1393	1363	1319	1283	1270	1208	1101	994
<b>47.5</b>	1515	1524	1500	1464	1423	1394	1368	1311	1178	1049
<b>50.0</b>	1622	1633	1619	1589	1547	1529	1487	1433	1278	1126
<b>52.5</b>	1725	1737	1735	1716	1681	1669	1630	1583	1414	1224
<b>55.0</b>	1811	1833	1847	1842	1832	1812	1792	1767	1590	1340
<b>57.5</b>	1886	1903	1934	1955	1978	1974	1985	2002	1801	1495
<b>60.0</b>	1954	1974	2017	2052	2122	2147	2191	2258	2059	1673
<b>62.5</b>	2064	2087	2135	2182	2292	2338	2428	2555	2312	1826
<b>65.0</b>	2164	2190	2278	2380	2542	2572	2704	2828	2497	1890
<b>67.5</b>	2213	2248	2406	2580	2877	2907	3005	3006	2529	1734
<b>70.0</b>	2091	2130	2366	2748	3211	3228	3227	2992	2216	1313
<b>72.5</b>	1718	1757	2038	2576	3301	3379	3274	2612	1597	791
<b>75.0</b>	1099	1104	1439	1980	2768	2935	2822	1886	947	477
<b>77.5</b>	498	546	767	1221	1806	2015	1894	1195	590	319
<b>80.0</b>	233	268	446	687	983	1097	1089	693	361	193
<b>82.5</b>	145	155	296	435	488	607	575	370	207	107
<b>85.0</b>	109	118	207	275	310	304	280	167	104	59
<b>87.5</b>	75	83	135	146	189	143	68	58	37	27
<b>90.0</b>	30	34	50	25	28	13	9	4	3	2
<b>92.5</b>	5	5	6	3	2	2	2	2	2	2
<b>95.0</b>	2	2	2	2	2	2	2	2	1	2
<b>97.5</b>	1	1	2	2	2	2	2	2	1	2
<b>100.0</b>	1	1	1	2	2	2	2	2	1	2
<b>102.5</b>	1	1	1	1	2	2	2	2	1	2
<b>105.0</b>	1	1	1	1	1	2	2	1	1	1
<b>107.5</b>	1	1	1	1	1	1	1	1	1	2
<b>110.0</b>	1	1	1	1	1	2	1	1	1	2
<b>112.5</b>	1	1	1	1	1	1	1	1	1	2
<b>115.0</b>	1	1	1	1	1	1	2	1	1	2
<b>117.5</b>	2	2	2	2	2	2	2	1	2	2
<b>120.0</b>	2	2	2	2	2	2	2	2	2	2
<b>122.5</b>	2	2	2	2	2	2	2	1	2	2
<b>125.0</b>	2	2	2	2	2	2	2	2	2	2
<b>127.5</b>	2	2	2	2	2	2	2	2	2	2
<b>130.0</b>	2	2	2	2	2	2	2	2	2	2

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**CANDELA TABULATION - (Cont.)**

132.5	2	2	2	2	2	2	2	2	2	2
135.0	2	2	2	2	2	2	2	2	2	2
137.5	1	1	1	1	1	1	1	1	1	2
140.0	0	0	1	1	1	1	1	1	1	1
142.5	0	0	1	1	1	1	1	1	1	1
145.0	0	0	1	1	1	1	1	1	1	1
147.5	0	0	1	1	1	1	1	1	1	1
150.0	0	0	1	1	1	1	1	1	1	1
152.5	0	0	1	1	1	1	1	1	1	1
155.0	0	0	1	1	1	1	1	1	1	1
157.5	0	0	1	1	1	1	1	1	1	1
160.0	0	0	1	1	1	1	1	1	1	1
162.5	0	0	1	1	1	1	1	1	1	1
165.0	0	0	1	1	1	1	1	1	1	1
167.5	0	0	1	1	1	1	1	1	1	1
170.0	0	0	1	1	1	1	1	1	1	1
172.5	0	0	1	1	1	1	1	1	1	1
175.0	0	0	1	1	1	1	1	1	1	1
177.5	0	0	1	1	1	1	1	1	1	1
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	420	420	420	420	420	420	420	420	420	420
2.5	424	425	426	421	421	425	428	430	419	413
5.0	387	387	389	398	405	404	407	410	405	394
7.5	411	409	414	429	407	390	367	379	372	384
10.0	406	410	413	423	391	394	382	382	373	393
12.5	446	445	458	438	414	394	398	424	421	443
15.0	482	482	480	447	413	434	441	462	470	463
17.5	531	518	515	478	443	473	495	495	493	493
20.0	571	573	565	492	472	505	504	516	521	523
22.5	647	623	616	542	527	543	545	539	532	544
25.0	686	692	677	567	605	580	558	551	561	566
27.5	746	726	734	614	643	601	576	569	585	593
30.0	792	769	768	653	672	641	600	592	591	602
32.5	810	799	784	700	710	672	635	612	611	630
35.0	852	826	815	739	725	693	670	620	639	645
37.5	875	861	835	759	735	706	672	648	634	669
40.0	880	855	826	770	738	707	673	650	641	673
42.5	875	855	816	749	712	697	663	650	631	656
45.0	894	862	812	726	682	672	645	633	637	609
47.5	921	877	816	707	648	644	618	611	612	564
50.0	968	899	830	690	612	612	589	598	572	524
52.5	1038	948	858	676	576	579	557	573	524	484
55.0	1132	1015	901	671	537	542	522	539	481	445
57.5	1240	1096	953	672	493	507	492	497	438	397
60.0	1353	1172	985	673	457	473	460	452	382	353
62.5	1417	1188	926	659	421	434	426	404	338	316
65.0	1367	1094	756	611	382	395	384	370	303	288
67.5	1137	855	518	509	340	354	348	341	273	270
70.0	744	535	346	381	293	309	317	312	249	254
72.5	387	285	233	277	241	266	282	279	223	224
75.0	249	178	152	194	188	213	238	232	162	154
77.5	160	112	103	137	141	168	185	146	114	120

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**CANDELA TABULATION - (Cont.)**

80.0	84	63	73	99	110	128	115	110	90	95
82.5	55	42	51	73	84	76	82	84	62	70
85.0	34	23	30	48	46	48	53	48	30	44
87.5	12	6	13	21	23	23	21	19	12	19
90.0	2	1	4	6	7	7	5	3	1	0
92.5	1	1	4	5	6	6	5	3	1	0
95.0	1	2	3	5	6	6	4	3	1	1
97.5	1	2	3	4	5	5	4	3	1	1
100.0	1	2	3	4	4	4	4	3	1	1
102.5	1	2	2	3	3	3	3	2	1	1
105.0	2	2	2	2	3	3	2	2	1	1
107.5	2	2	2	2	2	2	2	2	1	1
110.0	2	2	2	2	2	2	2	2	1	1
112.5	2	2	2	2	2	2	2	2	2	1
115.0	2	2	2	2	2	2	2	2	2	1
117.5	2	2	2	2	3	2	2	2	2	2
120.0	2	2	2	2	3	3	3	2	2	2
122.5	2	2	2	2	3	3	3	2	2	2
125.0	2	2	2	2	3	2	3	2	2	2
127.5	2	2	2	2	3	2	2	2	2	2
130.0	2	2	2	2	2	2	2	2	2	2
132.5	2	2	2	3	2	2	2	2	1	1
135.0	2	2	2	2	2	2	2	1	1	1
137.5	2	2	2	2	2	1	1	1	0	0
140.0	1	1	1	1	1	1	0	0	0	0
142.5	1	1	1	1	1	1	0	0	0	0
145.0	1	1	1	1	1	1	0	0	0	0
147.5	1	1	1	1	1	1	0	0	0	0
150.0	1	1	1	1	1	0	0	0	0	0
152.5	1	1	1	1	1	0	0	0	0	0
155.0	1	1	1	1	1	0	0	0	0	0
157.5	1	1	1	1	1	0	0	0	0	0
160.0	1	1	1	1	1	0	0	0	0	0
162.5	1	1	1	1	1	0	0	0	0	0
165.0	1	1	1	1	1	0	0	0	0	0
167.5	1	1	1	1	1	0	0	0	0	0
170.0	1	1	1	1	1	0	0	0	0	0
172.5	1	1	1	1	1	0	0	0	0	0
175.0	1	1	1	1	1	0	0	0	0	0
177.5	1	1	1	1	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

	<u>175</u>	<u>180</u>
0.0	420	420
2.5	407	405
5.0	390	395
7.5	381	380
10.0	403	404
12.5	451	456
15.0	482	493
17.5	509	517
20.0	537	543
22.5	542	573
25.0	581	601

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

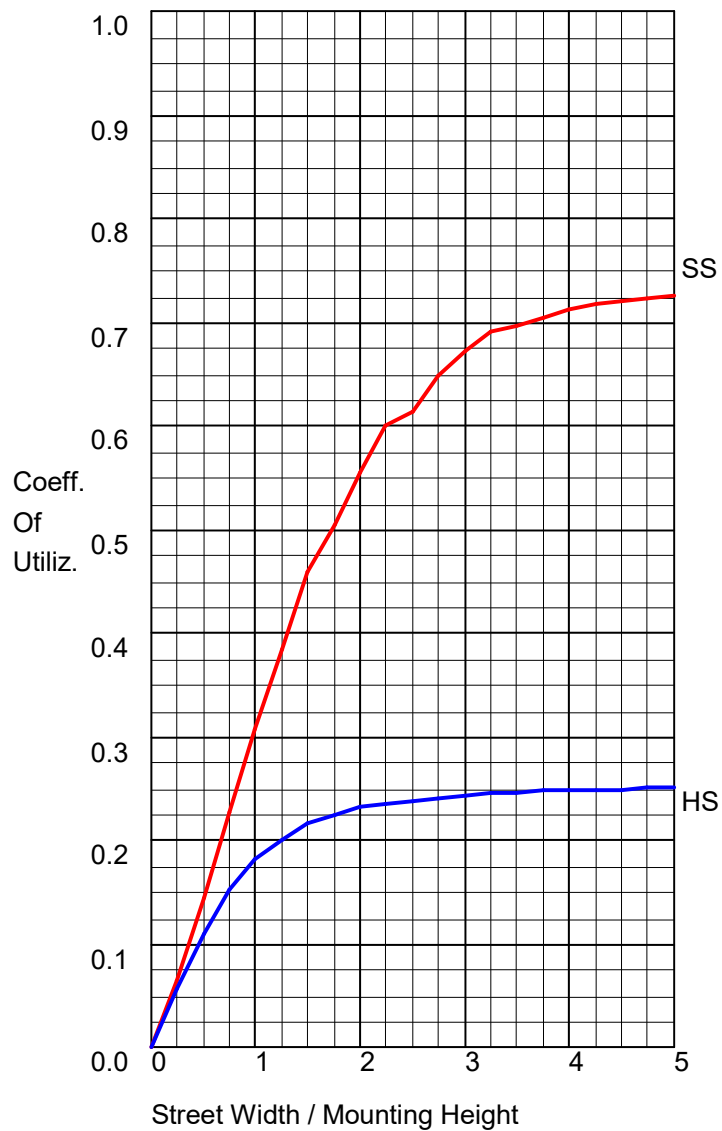
27.5	595	625
30.0	610	650
32.5	646	673
35.0	655	688
37.5	678	715
40.0	678	709
42.5	630	655
45.0	585	609
47.5	547	567
50.0	509	525
52.5	474	487
55.0	437	447
57.5	384	395
60.0	344	347
62.5	310	314
65.0	288	290
67.5	275	277
70.0	265	268
72.5	243	244
75.0	183	184
77.5	160	167
80.0	134	144
82.5	107	115
85.0	73	84
87.5	38	47
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	1	1
102.5	1	1
105.0	1	1
107.5	1	1
110.0	1	1
112.5	1	1
115.0	1	1
117.5	1	1
120.0	1	1
122.5	1	1
125.0	1	1
127.5	1	1
130.0	1	1
132.5	1	1
135.0	1	0
137.5	0	0
140.0	0	0
142.5	0	0
145.0	0	0
147.5	0	0
150.0	0	0
152.5	0	0
155.0	0	0
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0

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**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	0	0
<b>170.0</b>	0	0
<b>172.5</b>	0	0
<b>175.0</b>	0	0
<b>177.5</b>	0	0
<b>180.0</b>	0	0

### COEFFICIENTS OF UTILIZATION

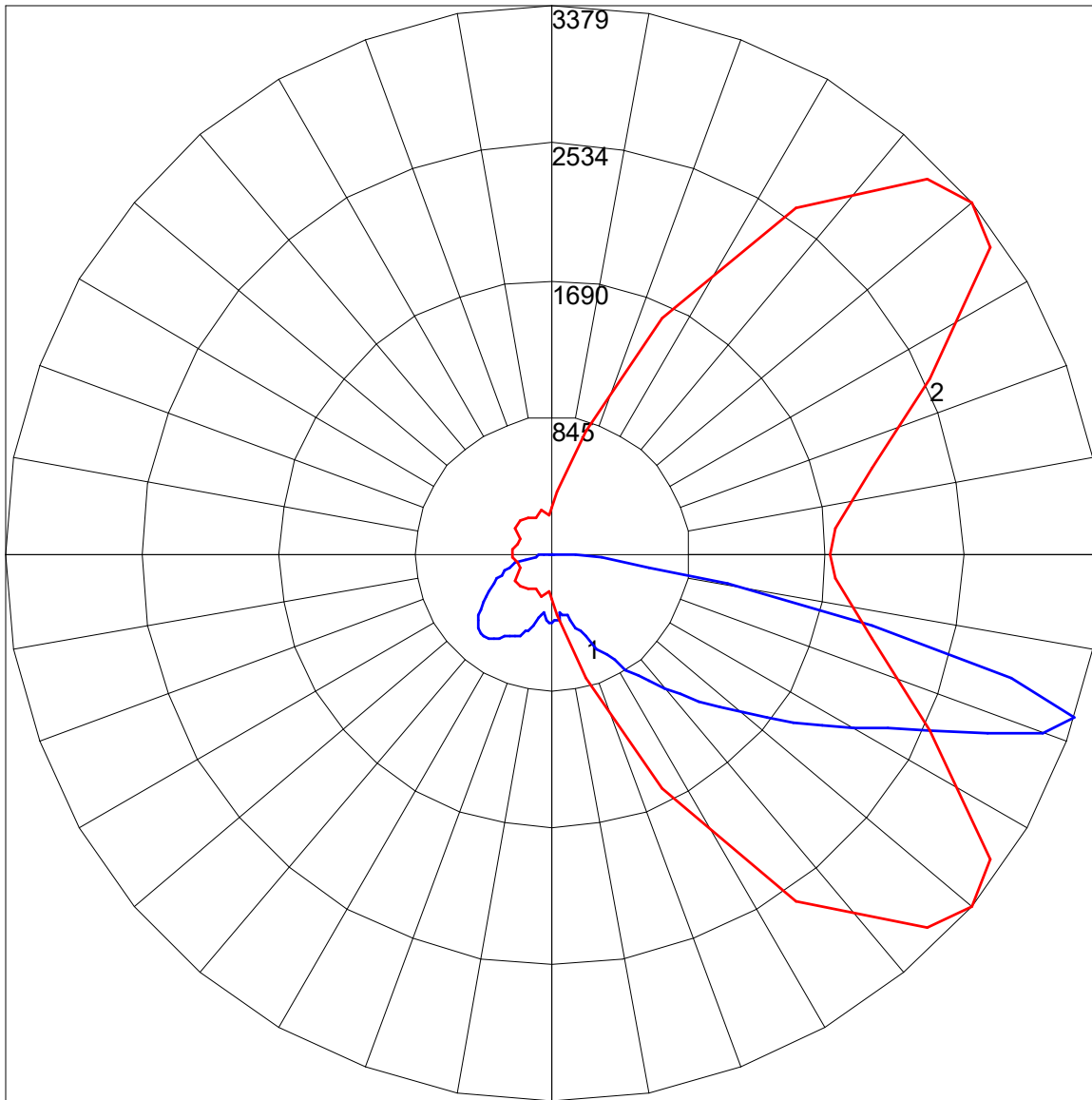


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	3756.5	74.3
Downward House Side	1286.6	25.5
Downward Total	5043.1	99.8
Upward Street Side	5.8	0.1
Upward House Side	5.4	0.1
Upward Total	11.2	0.2
Total Flux	5054.3	100.0

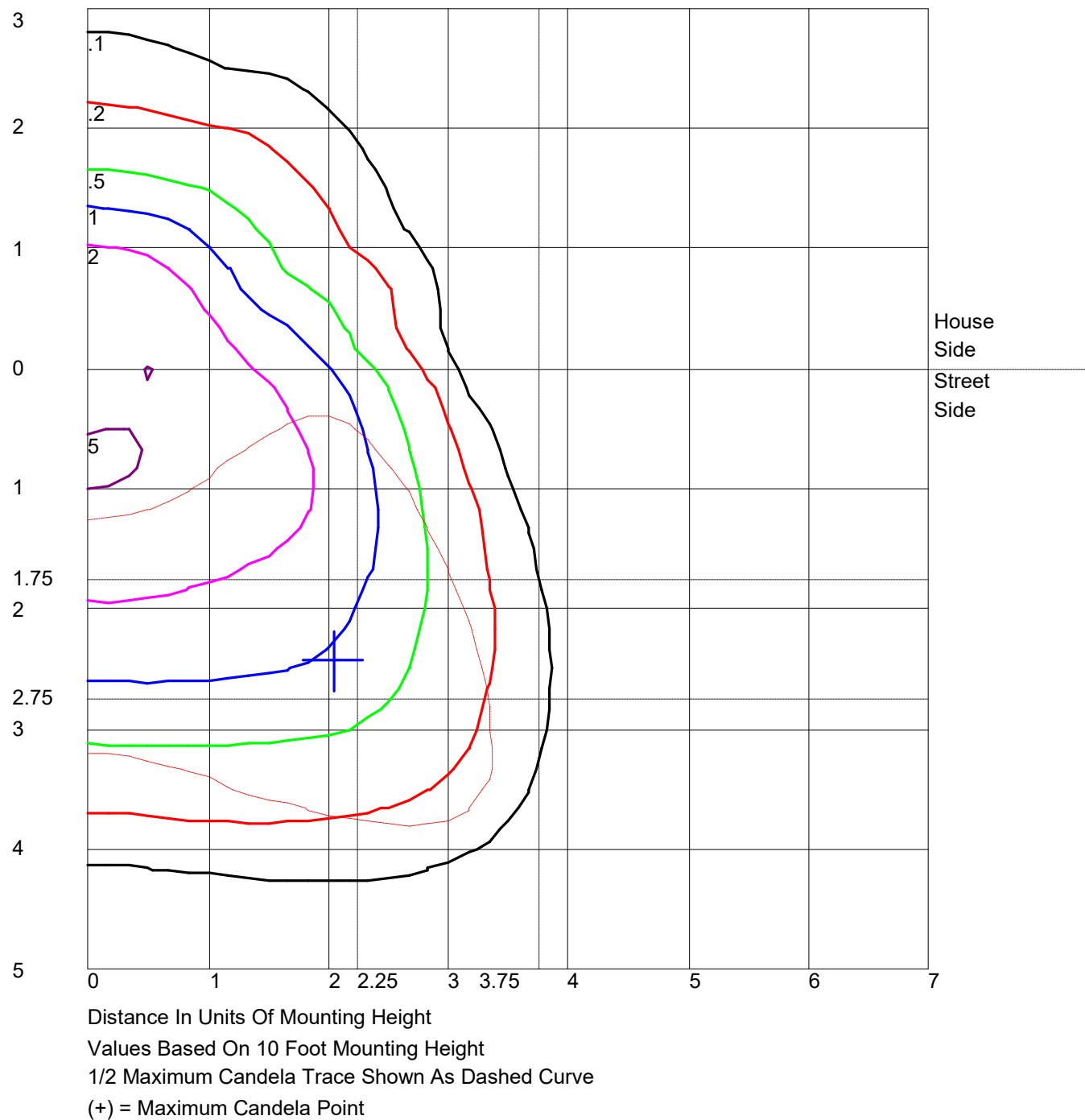


POLAR GRAPH

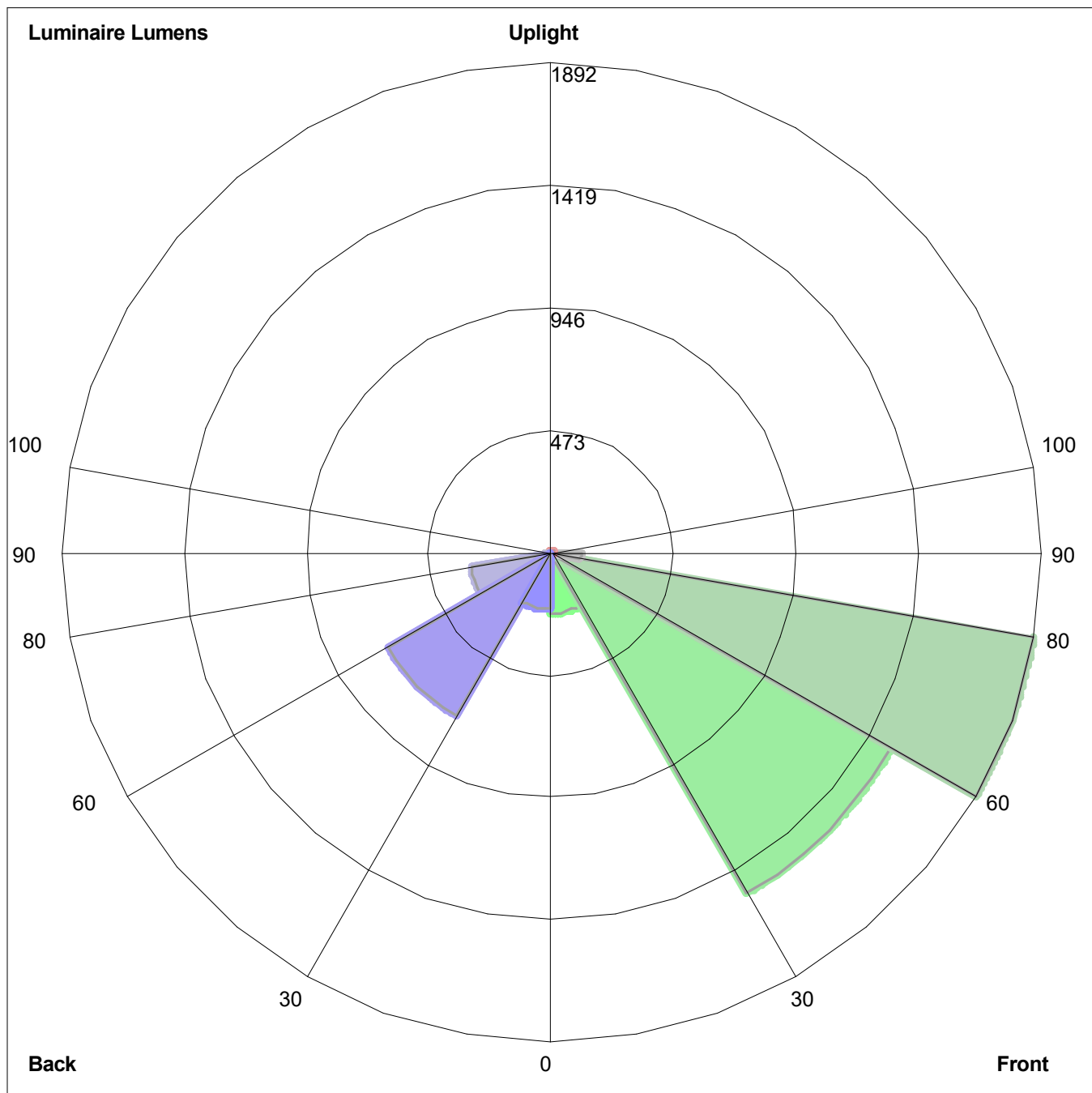


Maximum Candela = 3379 Located At Horizontal Angle = 40, Vertical Angle = 72.5  
# 1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=234.2, Medium=1516.5, High=1892.2, Very High=113.6  
Back: Low=219.8, Medium=726.6, High=313.1, Very High=27.1  
Uplight: Low=3.8, High=7.4

BUG Rating : B1-U1-G2