



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-PT-FT-LED-25L-50-IL.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-11762  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/2020  
[TEST DATE] 04/27/20  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] ENM4-PT-FT-LED-25L-50-IL  
[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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	19832
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	227.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14031
Maximum Candela Angle	40H 65V
Maximum Candela (<90 Degrees Vertical)	14031
Maximum Candela Angle (<90 Degrees Vertical)	40H 65V
Maximum Candela At 90 Degrees Vertical	57 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1750 (8.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1109.6	N.A.	5.6
FM - Front-Medium (30-60)	9022.5	N.A.	45.5
FH - Front-High (60-80)	6541.5	N.A.	33.0
FVH - Front-Very High (80-90)	238.6	N.A.	1.2
BL - Back-Low (0-30)	754.1	N.A.	3.8
BM - Back-Medium (30-60)	1777.5	N.A.	9.0
BH - Back-High (60-80)	311.4	N.A.	1.6
BVH - Back-Very High (80-90)	16.0	N.A.	0.1
UL - Uplight-Low (90-100)	14.6	N.A.	0.1
UH - Uplight-High (100-180)	45.8	N.A.	0.2
Total	19831.6	N.A.	100.0
BUG Rating	B2-U2-G3		

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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>	1963	1963	1963	1963	1963	1963	1963	1963	1963	1963
<b>2.5</b>	1916	1941	1941	1945	1944	1952	1963	1976	1969	1954
<b>5.0</b>	1805	1800	1843	1879	1877	1859	1873	1831	1809	1806
<b>7.5</b>	1711	1742	1766	1741	1689	1713	1699	1802	1890	1893
<b>10.0</b>	1704	1717	1710	1679	1693	1729	1776	1824	1848	1892
<b>12.5</b>	1853	1808	1799	1733	1753	1785	1796	1841	1945	1996
<b>15.0</b>	1950	1908	1929	1937	1945	1918	1905	1960	2052	2118
<b>17.5</b>	2076	2049	2027	2074	2135	2117	2151	2121	2175	2292
<b>20.0</b>	2290	2295	2319	2318	2315	2358	2380	2374	2356	2500
<b>22.5</b>	2533	2575	2640	2729	2674	2664	2674	2694	2610	2761
<b>25.0</b>	2919	2932	2962	3044	3222	3175	3113	3133	3006	3005
<b>27.5</b>	3601	3510	3565	3528	3636	3722	3678	3612	3463	3329
<b>30.0</b>	4083	4134	4144	4188	4172	4248	4265	4244	3919	3679
<b>32.5</b>	5166	4950	4841	4813	4892	4889	4899	4881	4428	4109
<b>35.0</b>	5689	5738	5577	5619	5553	5622	5532	5509	5075	4496
<b>37.5</b>	6549	6552	6288	6337	6388	6390	6224	6220	5663	5033
<b>40.0</b>	7102	7113	7144	7124	7131	7119	7028	6826	6345	5500
<b>42.5</b>	7533	7546	7647	7723	7880	7750	7715	7595	7012	5895
<b>45.0</b>	7978	8038	8093	8241	8590	8456	8485	8185	7604	6364
<b>47.5</b>	8504	8562	8612	8792	9183	9173	9204	8899	8250	6861
<b>50.0</b>	9000	9051	9159	9446	9859	9979	10055	9629	8950	7309
<b>52.5</b>	9418	9488	9659	10062	10631	10873	10861	10477	9582	7648
<b>55.0</b>	9774	9848	10072	10604	11435	11661	11616	11300	10006	7880
<b>57.5</b>	10096	10188	10542	11162	12200	12401	12460	11893	10225	7857
<b>60.0</b>	10362	10461	10920	11779	12842	13132	13115	12227	10232	7573
<b>62.5</b>	10421	10520	11205	12365	13425	13738	13571	12218	9883	7009
<b>65.0</b>	9616	9714	10714	12301	13688	14031	13736	11767	9108	6092
<b>67.5</b>	8111	8133	9382	11250	13028	13466	13121	10910	7905	4963
<b>70.0</b>	4799	4800	6445	9122	11255	11823	11441	9369	6352	3504
<b>72.5</b>	1927	2093	2962	5089	8059	8937	9097	7197	4380	2223
<b>75.0</b>	1451	1545	1985	2775	4043	4630	5378	4586	2710	1458
<b>77.5</b>	1171	1245	1636	2166	2494	2572	2600	2559	1728	1043
<b>80.0</b>	941	1014	1370	1719	1750	1668	1542	1253	1093	696
<b>82.5</b>	704	762	999	1121	962	851	706	531	539	457
<b>85.0</b>	389	418	508	506	369	345	287	238	253	258
<b>87.5</b>	142	146	172	165	117	107	85	77	76	97
<b>90.0</b>	45	48	57	49	35	29	22	16	10	13
<b>92.5</b>	20	21	16	12	10	12	12	12	10	10
<b>95.0</b>	4	3	4	6	9	10	10	10	9	9
<b>97.5</b>	4	4	5	6	8	8	9	10	9	9
<b>100.0</b>	3	3	4	6	7	8	8	9	8	9
<b>102.5</b>	4	4	5	6	7	8	8	8	8	9
<b>105.0</b>	4	4	4	6	7	7	8	8	8	8
<b>107.5</b>	4	4	5	6	7	8	8	8	8	8
<b>110.0</b>	5	5	5	6	7	8	8	8	8	9
<b>112.5</b>	5	5	5	7	8	8	9	8	8	9
<b>115.0</b>	6	6	6	7	8	9	9	9	9	9
<b>117.5</b>	7	7	7	7	9	9	9	9	9	10
<b>120.0</b>	8	8	8	8	9	9	10	10	9	10
<b>122.5</b>	9	9	9	9	9	10	10	10	10	12
<b>125.0</b>	10	10	10	10	10	10	12	10	10	12
<b>127.5</b>	10	10	10	10	10	10	12	12	10	13
<b>130.0</b>	12	12	12	12	12	12	12	12	12	13

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**CANDELA TABULATION - (Cont.)**

132.5	12	12	12	12	12	12	12	12	12	13
135.0	10	10	10	9	10	10	12	10	10	12
137.5	6	5	5	7	8	8	9	9	9	9
140.0	1	1	3	4	6	6	6	7	7	7
142.5	1	1	3	4	5	6	6	6	6	7
145.0	1	1	3	4	5	6	6	6	6	7
147.5	1	1	3	4	5	6	6	6	6	6
150.0	1	1	3	4	5	6	6	6	6	6
152.5	1	1	3	4	5	6	6	6	6	6
155.0	1	1	3	4	5	6	6	6	6	6
157.5	1	1	3	4	5	6	6	6	6	6
160.0	1	1	3	4	5	5	5	5	5	5
162.5	1	1	3	4	5	5	5	5	5	5
165.0	1	1	3	4	5	5	5	5	5	5
167.5	1	1	3	4	5	5	5	5	5	5
170.0	1	1	3	4	5	5	5	5	5	5
172.5	1	1	3	4	5	5	5	5	5	5
175.0	1	1	3	4	5	5	5	5	5	5
177.5	1	1	3	4	4	5	5	5	5	5
180.0	3	3	3	3	3	3	3	3	3	3

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

	<b>85</b>	<b>90</b>	<b>95</b>	<b>105</b>	<b>115</b>	<b>125</b>	<b>135</b>	<b>145</b>	<b>155</b>	<b>165</b>
0.0	1963	1963	1963	1963	1963	1963	1963	1963	1963	1963
2.5	1966	1978	1959	1955	1963	1965	1976	1984	1951	1913
5.0	1821	1836	1814	1860	1871	1890	1908	1921	1904	1860
7.5	1875	1911	1919	1966	1905	1807	1729	1776	1758	1822
10.0	1919	1868	1898	1922	1850	1832	1779	1773	1706	1778
12.5	1978	2019	2061	2036	1922	1801	1802	1862	1807	1803
15.0	2186	2157	2166	2067	1924	1952	1938	1813	1683	1520
17.5	2281	2293	2262	2231	2040	2023	1922	1625	1357	1200
20.0	2553	2503	2490	2246	2119	2061	1683	1348	1147	1081
22.5	2781	2744	2719	2482	2251	1955	1453	1195	1102	1076
25.0	3072	3028	2969	2654	2372	1799	1299	1155	1111	1116
27.5	3328	3279	3174	2896	2438	1620	1272	1174	1195	1243
30.0	3554	3559	3381	2999	2346	1591	1300	1229	1310	1371
32.5	3879	3728	3503	3051	2245	1593	1341	1295	1418	1601
35.0	4144	4053	3691	3084	2104	1617	1380	1343	1546	1774
37.5	4517	4300	3953	3012	2019	1622	1382	1384	1634	1858
40.0	4765	4434	4035	2934	1961	1612	1361	1371	1635	1687
42.5	4995	4545	4059	2834	1874	1580	1300	1278	1441	1276
45.0	5252	4698	4161	2710	1781	1501	1197	1072	1065	894
47.5	5490	4805	4214	2579	1678	1365	1022	832	731	632
50.0	5677	4831	4155	2478	1540	1176	829	630	511	462
52.5	5784	4842	4095	2391	1336	935	616	457	370	349
55.0	5814	4804	3999	2267	1079	661	422	318	268	261
57.5	5694	4648	3826	2068	807	432	297	223	194	191
60.0	5351	4356	3506	1753	561	321	226	164	137	136
62.5	4772	3833	3028	1410	406	262	180	126	96	97
65.0	4018	3127	2369	1034	325	214	143	95	70	69
67.5	3030	2313	1552	637	261	174	112	77	53	48
70.0	1989	1523	917	373	197	133	88	63	43	37
72.5	1171	868	560	243	133	94	69	51	34	24
75.0	834	593	383	174	98	70	57	37	19	12
77.5	588	408	263	130	75	59	45	23	9	6

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**CANDELA TABULATION - (Cont.)**

80.0	359	266	185	94	61	49	35	17	5	4
82.5	241	180	130	67	49	41	30	15	4	4
85.0	160	111	74	44	39	36	26	14	4	3
87.5	73	45	34	27	29	26	20	12	3	3
90.0	15	10	17	25	28	26	19	12	4	3
92.5	12	9	19	26	30	27	21	14	5	4
95.0	12	9	18	25	28	26	21	15	6	5
97.5	10	8	15	21	24	22	19	14	8	6
100.0	10	8	12	17	19	19	16	13	8	6
102.5	9	8	10	13	16	16	15	13	9	7
105.0	9	8	10	12	14	15	14	12	9	7
107.5	9	9	10	12	13	14	13	12	9	8
110.0	9	9	10	12	13	13	13	12	9	8
112.5	9	9	10	12	13	13	13	12	10	8
115.0	9	10	12	13	14	14	14	13	12	9
117.5	10	12	12	13	14	14	14	14	12	10
120.0	10	12	13	13	15	15	15	14	13	10
122.5	12	13	13	14	15	16	16	15	14	12
125.0	13	13	14	15	15	16	16	16	15	13
127.5	13	14	14	14	15	15	16	16	15	13
130.0	14	14	14	14	15	16	16	15	15	13
132.5	14	14	14	14	15	15	15	15	14	13
135.0	13	13	14	14	14	14	14	13	12	10
137.5	10	10	10	12	12	12	10	9	7	6
140.0	8	8	8	9	9	8	8	7	5	4
142.5	7	7	8	8	8	7	7	6	4	3
145.0	7	7	7	8	8	7	6	5	4	2
147.5	7	7	7	7	7	7	6	5	3	2
150.0	7	7	7	7	7	7	6	5	3	2
152.5	7	7	7	7	7	6	6	4	3	1
155.0	6	7	7	7	7	6	5	4	3	1
157.5	6	6	7	7	6	6	5	4	2	1
160.0	6	6	6	6	6	5	4	3	2	1
162.5	5	5	6	6	5	5	4	3	1	0
165.0	5	5	5	5	5	5	4	2	1	0
167.5	5	5	5	5	5	4	3	2	1	0
170.0	5	5	5	5	5	4	3	2	1	0
172.5	5	5	5	5	5	4	3	2	1	0
175.0	5	5	5	5	4	4	3	2	1	0
177.5	5	5	5	4	4	4	3	2	1	0
180.0	3	3	3	3	3	3	3	3	3	3

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

	<b>175</b>	<b>180</b>
0.0	1963	1963
2.5	1929	1927
5.0	1839	1847
7.5	1824	1803
10.0	1835	1802
12.5	1814	1790
15.0	1546	1542
17.5	1176	1174
20.0	1095	1106
22.5	1097	1118
25.0	1183	1219

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**CANDELA TABULATION - (Cont.)**

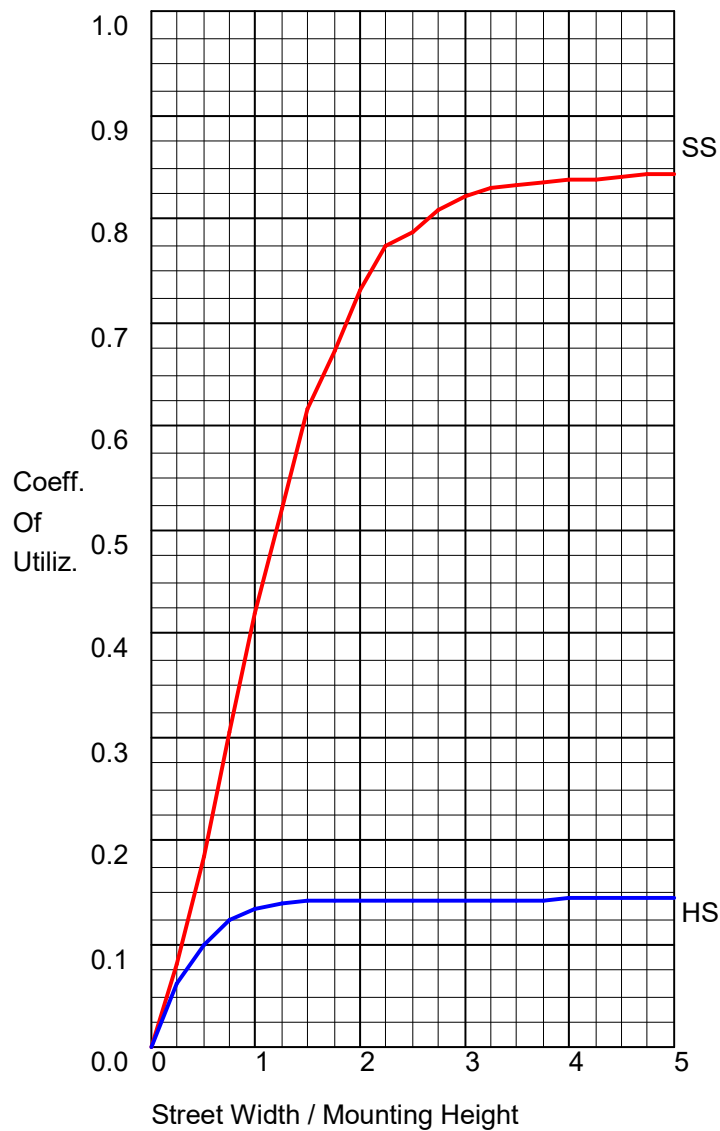
27.5	1322	1368
30.0	1488	1495
32.5	1738	1747
35.0	1850	1863
37.5	1825	1791
40.0	1506	1465
42.5	1118	1093
45.0	839	828
47.5	633	637
50.0	489	492
52.5	375	373
55.0	286	288
57.5	220	222
60.0	166	171
62.5	128	131
65.0	95	98
67.5	69	71
70.0	49	52
72.5	28	30
75.0	12	13
77.5	3	4
80.0	1	1
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	1	0
95.0	3	2
97.5	4	4
100.0	4	4
102.5	5	5
105.0	5	5
107.5	6	6
110.0	6	7
112.5	7	7
115.0	8	8
117.5	8	8
120.0	9	9
122.5	10	9
125.0	12	10
127.5	12	10
130.0	12	10
132.5	10	10
135.0	8	8
137.5	5	5
140.0	2	2
142.5	1	1
145.0	1	0
147.5	1	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

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-PT-FT-LED-25L-50-IL.IES**

**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>	3	3

### COEFFICIENTS OF UTILIZATION

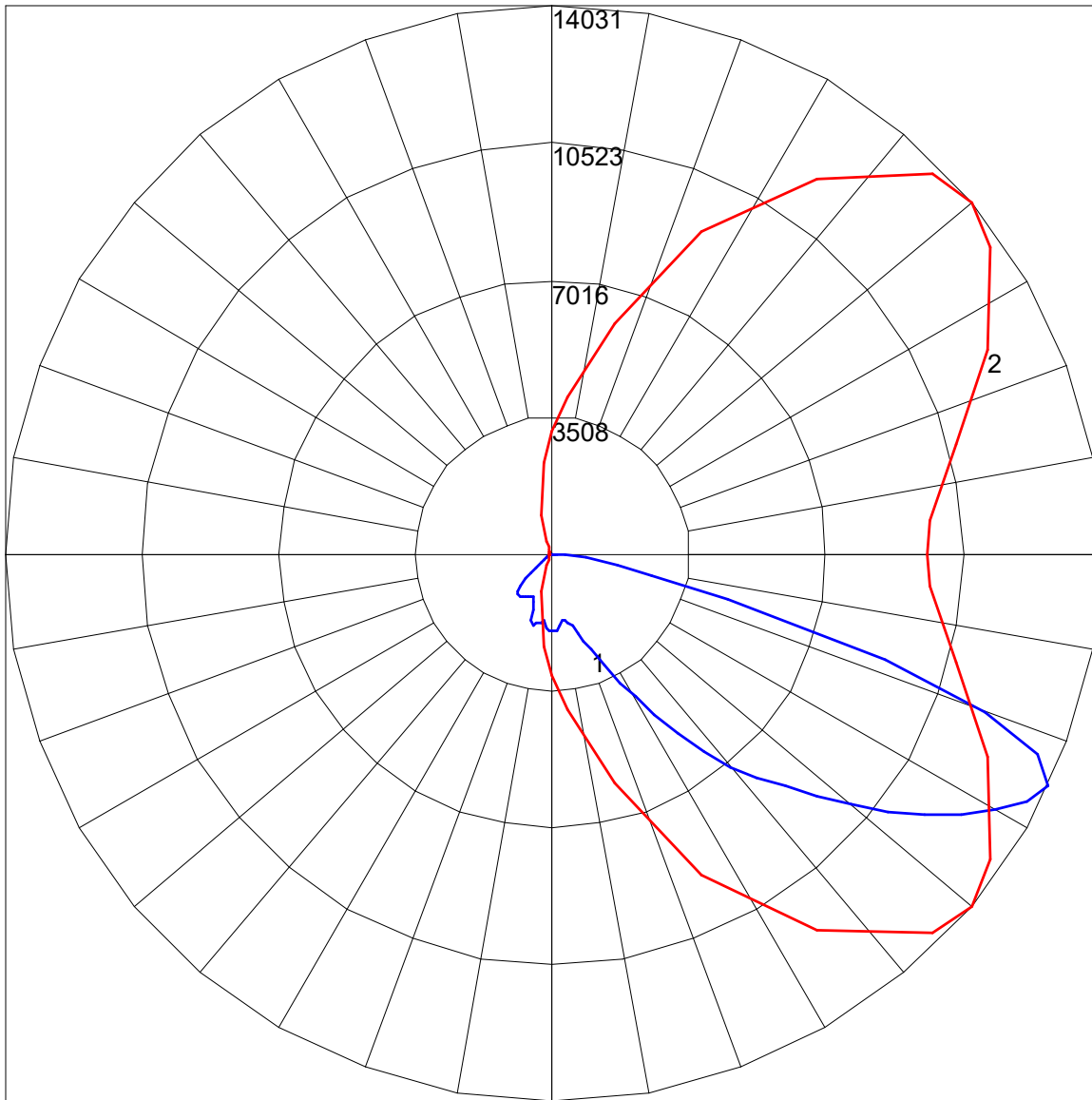


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	16912.1	85.3
Downward House Side	2859.0	14.4
Downward Total	19771.1	99.7
Upward Street Side	26.2	0.1
Upward House Side	34.1	0.2
Upward Total	60.3	0.3
Total Flux	19831.4	100.0

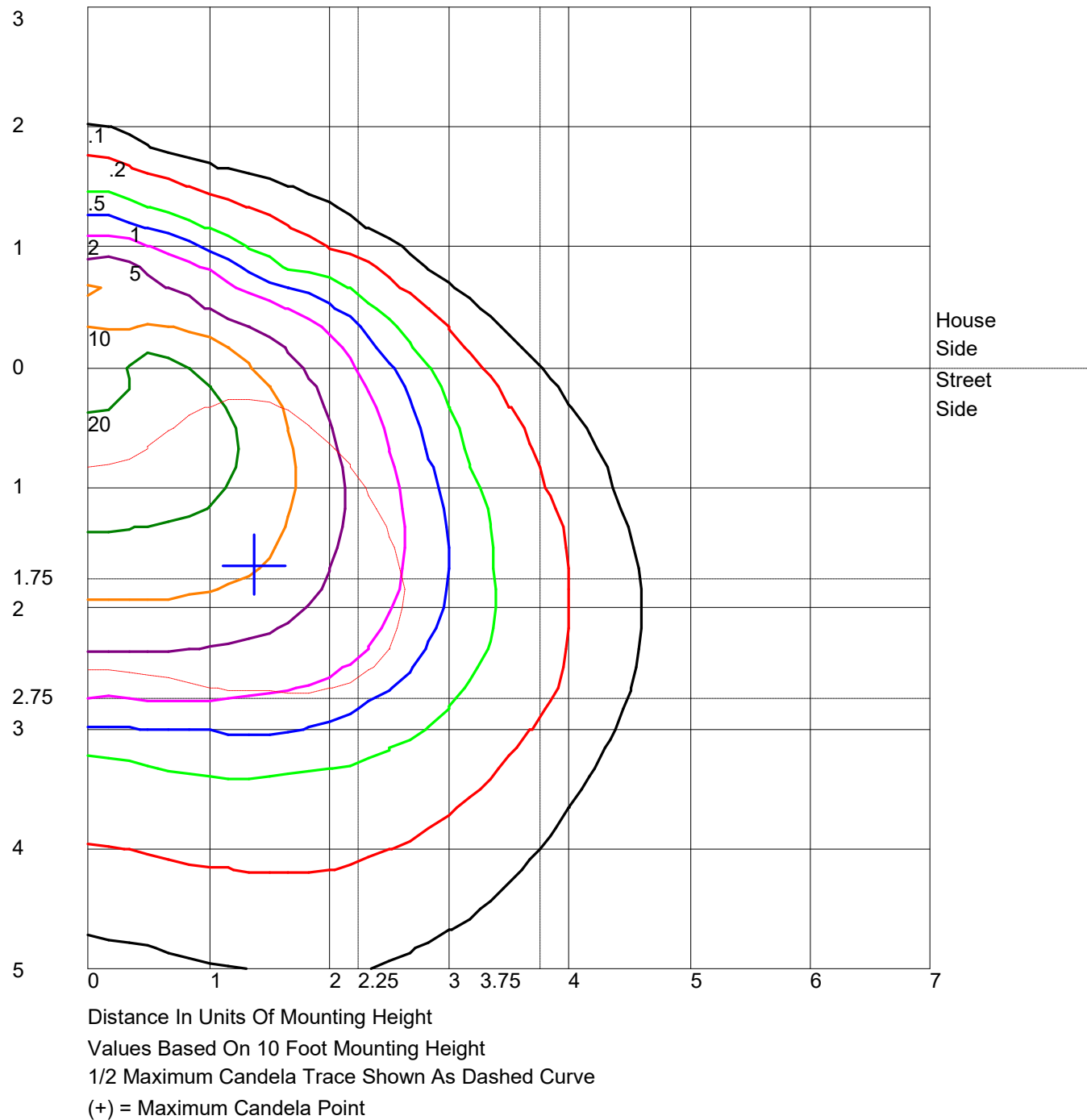


POLAR GRAPH

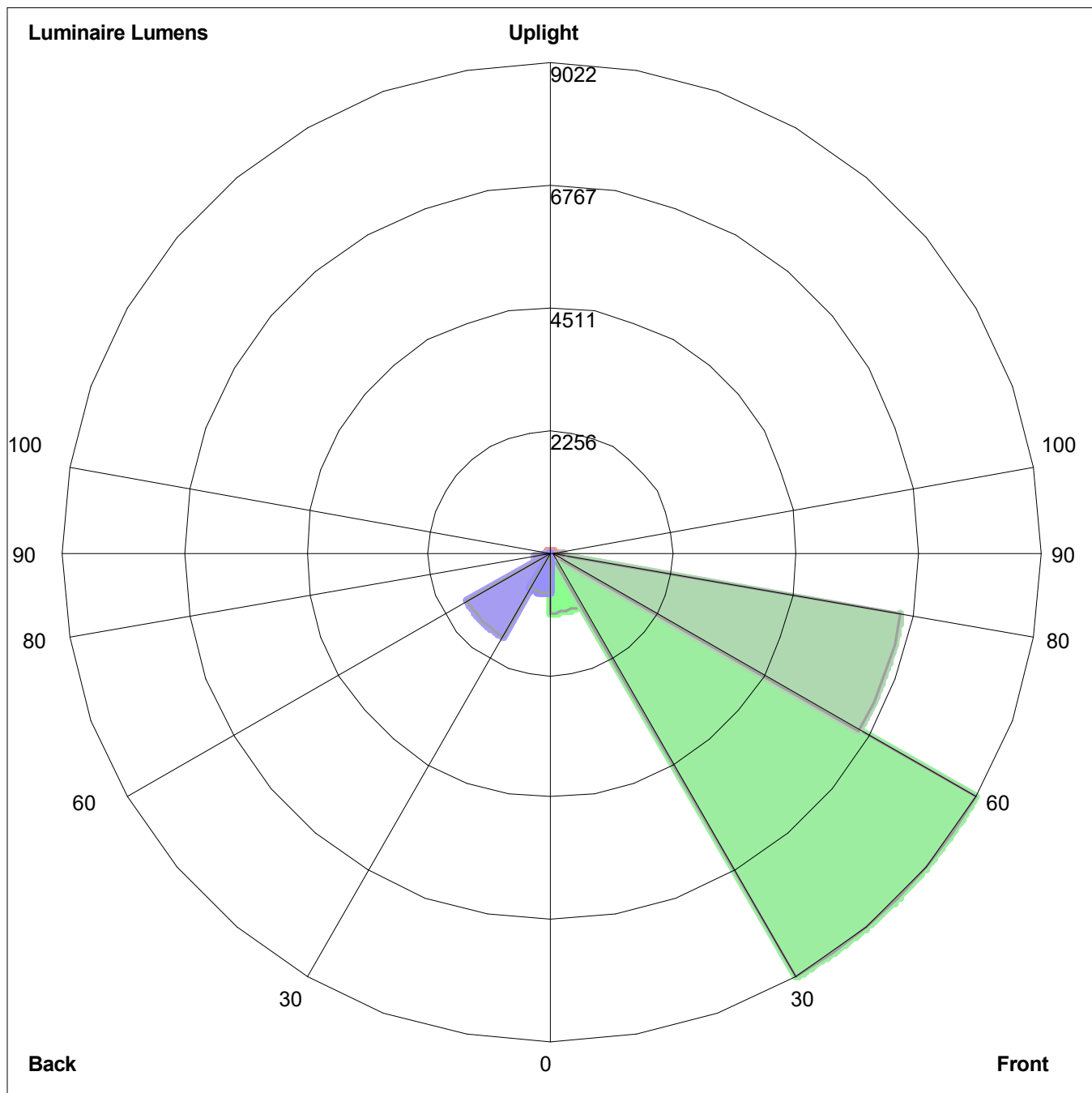


Maximum Candela = 14031 Located At Horizontal Angle = 40, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1109.6, Medium=9022.5, High=6541.5, Very High=238.6  
Back: Low=754.1, Medium=1777.5, High=311.4, Very High=16.0  
Uplight: Low=14.6, High=45.8

BUG Rating : B2-U2-G3