



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-PT-2-LED-25L-30-IL.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-11747  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/2020  
[TEST DATE] 04/23/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ENM4-PT-2-LED-25L-30-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17223
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	227.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	17712
Maximum Candela Angle	80H 57.5V
Maximum Candela (<90 Degrees Vertical)	17712
Maximum Candela Angle (<90 Degrees Vertical)	80H 57.5V
Maximum Candela At 90 Degrees Vertical	19 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	688 (4.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-PT-2-LED-25L-30-IL.IES**

**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1342.0	N.A.	7.8
FM - Front-Medium (30-60)	9758.2	N.A.	56.7
FH - Front-High (60-80)	3124.3	N.A.	18.1
FVH - Front-Very High (80-90)	67.9	N.A.	0.4
BL - Back-Low (0-30)	724.2	N.A.	4.2
BM - Back-Medium (30-60)	1804.9	N.A.	10.5
BH - Back-High (60-80)	365.4	N.A.	2.1
BVH - Back-Very High (80-90)	12.3	N.A.	0.1
UL - Uplight-Low (90-100)	5.4	N.A.	0.0
UH - Uplight-High (100-180)	18.7	N.A.	0.1
Total	17223.3	N.A.	100.0
BUG Rating	B2-U2-G2		

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-PT-2-LED-25L-30-IL.IES**

**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>45</b>	<b>55</b>	<b>65</b>	<b>75</b>	<b>80</b>
<b>0.0</b>	1764	1764	1764	1764	1764	1764	1764	1764	1764	1764
<b>2.5</b>	1796	1801	1801	1815	1816	1820	1825	1792	1783	1757
<b>5.0</b>	1803	1812	1856	1845	1895	1775	1770	1731	1681	1664
<b>7.5</b>	1844	1873	1920	1825	1855	1779	1810	1875	1825	1766
<b>10.0</b>	1952	1953	2020	1876	1931	1957	1977	1949	1897	1837
<b>12.5</b>	2118	2226	2125	2080	2133	2101	2122	2087	2075	2077
<b>15.0</b>	2285	2387	2337	2393	2457	2346	2366	2318	2342	2272
<b>17.5</b>	2436	2533	2492	2544	2614	2729	2609	2658	2700	2570
<b>20.0</b>	2774	2841	2844	2795	2880	2917	3031	2977	3040	3006
<b>22.5</b>	3010	3032	3104	3179	3207	3216	3473	3480	3609	3576
<b>25.0</b>	3469	3364	3450	3519	3604	3568	3937	4213	4250	4229
<b>27.5</b>	3949	4062	4098	3954	4014	4112	4430	5090	5329	5142
<b>30.0</b>	4584	4505	4441	4482	4549	4745	5120	6173	6447	6330
<b>32.5</b>	5400	5468	5153	4950	5140	5341	6102	7530	7904	7775
<b>35.0</b>	6263	6134	5919	5772	5691	6198	7027	8603	9351	9104
<b>37.5</b>	7144	7050	6713	6410	6593	6817	7856	9404	9969	10071
<b>40.0</b>	7499	7498	7352	7266	7358	7605	8501	9701	10414	10343
<b>42.5</b>	7598	7600	7573	7634	7967	8282	9298	9931	10588	10713
<b>45.0</b>	7364	7395	7432	7690	8276	8999	10129	10575	11077	11408
<b>47.5</b>	6797	6830	6954	7325	8108	9245	10955	11624	11888	12346
<b>50.0</b>	5997	5967	6164	6569	7516	9048	11732	12809	12842	13386
<b>52.5</b>	4927	4967	5182	5643	6617	8412	12298	14060	14132	15031
<b>55.0</b>	3784	3824	4043	4582	5497	7306	12340	15107	15603	16672
<b>57.5</b>	2698	2746	2944	3410	4315	6020	11559	15357	16613	17712
<b>60.0</b>	1881	1920	2085	2416	3110	4442	10061	14630	16787	17565
<b>62.5</b>	1361	1370	1511	1699	2086	3017	8169	12760	15800	16120
<b>65.0</b>	963	975	1075	1284	1512	1942	6144	10607	13402	13404
<b>67.5</b>	655	668	716	904	1160	1330	4156	8035	10660	10352
<b>70.0</b>	401	409	428	599	845	985	2533	5511	7280	6689
<b>72.5</b>	303	302	304	376	580	721	1401	3361	4225	3260
<b>75.0</b>	204	211	209	246	391	515	754	2050	2060	1257
<b>77.5</b>	138	139	142	152	248	363	452	1178	1089	695
<b>80.0</b>	90	94	101	95	137	232	284	644	688	485
<b>82.5</b>	84	84	81	76	83	117	167	328	448	377
<b>85.0</b>	63	63	60	61	65	83	98	159	230	226
<b>87.5</b>	39	38	35	35	38	50	61	80	82	83
<b>90.0</b>	12	12	10	8	8	9	8	8	11	9
<b>92.5</b>	6	6	5	5	3	0	0	0	1	1
<b>95.0</b>	4	3	4	4	2	0	0	0	0	0
<b>97.5</b>	4	3	4	4	2	0	0	0	0	0
<b>100.0</b>	4	3	4	4	2	0	0	0	0	0
<b>102.5</b>	4	3	4	4	2	0	0	0	0	0
<b>105.0</b>	4	3	4	4	2	0	0	0	0	0
<b>107.5</b>	4	4	4	4	2	0	0	0	0	0
<b>110.0</b>	5	5	5	5	3	1	0	0	0	0
<b>112.5</b>	5	5	5	5	3	1	0	0	0	0
<b>115.0</b>	6	6	6	5	3	1	0	0	1	1
<b>117.5</b>	7	6	6	6	4	2	0	0	1	2
<b>120.0</b>	8	7	6	6	4	2	0	1	2	2
<b>122.5</b>	9	9	7	6	5	3	0	2	3	3
<b>125.0</b>	10	10	8	6	5	3	1	2	4	4
<b>127.5</b>	11	11	9	7	6	4	2	3	4	5
<b>130.0</b>	11	11	9	8	6	4	2	3	5	5

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-PT-2-LED-25L-30-IL.IES**

**CANDELA TABULATION - (Cont.)**

132.5	12	12	10	8	6	5	2	3	5	6
135.0	11	10	9	7	6	4	2	3	5	5
137.5	6	5	5	4	3	1	0	0	1	2
140.0	1	1	2	2	0	0	0	0	0	0
142.5	0	1	2	1	0	0	0	0	0	0
145.0	0	1	1	1	0	0	0	0	0	0
147.5	0	1	1	1	0	0	0	0	0	0
150.0	1	1	1	1	0	0	0	0	0	0
152.5	1	1	1	1	0	0	0	0	0	0
155.0	1	1	1	1	0	0	0	0	0	0
157.5	1	1	1	1	0	0	0	0	0	0
160.0	0	1	1	0	0	0	0	0	0	0
162.5	1	1	1	0	0	0	0	0	0	0
165.0	1	1	1	0	0	0	0	0	0	0
167.5	1	1	1	1	0	0	0	0	0	0
170.0	1	1	1	1	0	0	0	0	0	0
172.5	0	1	1	1	0	0	0	0	0	0
175.0	1	1	2	1	0	0	0	0	0	0
177.5	1	1	2	2	0	0	0	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

**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	1764	1764	1764	1764	1764	1764	1764	1764	1764	1764
2.5	1763	1753	1763	1758	1744	1745	1755	1756	1733	1727
5.0	1688	1674	1644	1634	1643	1637	1611	1619	1591	1557
7.5	1760	1750	1713	1715	1630	1550	1430	1451	1425	1471
10.0	1822	1774	1722	1745	1557	1505	1441	1400	1329	1392
12.5	1970	1938	1908	1795	1606	1505	1430	1474	1492	1562
15.0	2180	2126	2008	1810	1587	1557	1566	1635	1690	1656
17.5	2468	2319	2194	1928	1645	1635	1756	1802	1788	1777
20.0	2807	2680	2470	2051	1743	1831	1842	1880	1775	1612
22.5	3361	3046	2872	2326	1925	1968	1922	1714	1401	1163
25.0	3986	3714	3365	2531	2233	2104	1749	1291	942	696
27.5	4879	4374	3968	2844	2458	2061	1365	837	570	471
30.0	5997	5288	4650	3186	2657	1835	971	555	455	413
32.5	7082	6337	5381	3516	2757	1510	655	470	406	380
35.0	8360	7391	6194	3887	2672	1133	545	423	380	357
37.5	9385	8447	6872	4156	2414	782	491	394	344	320
40.0	9772	8952	7185	4374	2054	609	446	364	306	279
42.5	10306	9394	7461	4398	1480	538	405	326	263	228
45.0	11033	10009	7825	4261	894	483	362	281	215	182
47.5	11941	10746	8183	3857	656	428	312	229	174	145
50.0	12999	11467	8440	3197	562	380	257	182	139	112
52.5	14268	11998	8516	2344	509	331	205	141	110	83
55.0	15577	12111	8259	1579	469	278	160	105	83	61
57.5	15940	11541	7500	1130	432	226	120	76	59	38
60.0	15217	10338	6399	936	417	184	88	50	34	17
62.5	13212	8666	5110	775	401	147	62	27	19	9
65.0	10659	6607	3706	592	349	115	41	13	13	6
67.5	7596	4577	2336	423	264	85	27	10	11	6
70.0	4525	2756	1310	294	180	56	21	12	11	7
72.5	1966	1370	718	216	114	35	21	16	10	6
75.0	841	723	446	155	64	28	24	17	9	6
77.5	531	496	289	102	41	28	25	18	8	6

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-PT-2-LED-25L-30-IL.IES**

**CANDELA TABULATION - (Cont.)**

80.0	418	352	188	58	32	28	26	19	9	6
82.5	302	215	112	28	26	26	25	18	9	6
85.0	172	109	52	15	18	24	24	17	8	6
87.5	63	28	8	7	14	21	20	15	8	6
90.0	3	3	4	6	13	19	18	13	7	6
92.5	0	2	4	6	12	17	17	10	6	6
95.0	0	2	3	6	9	13	12	7	6	5
97.5	0	2	3	5	7	9	7	6	5	5
100.0	0	2	3	5	6	6	6	6	4	5
102.5	0	2	3	4	6	6	6	5	4	5
105.0	0	2	3	4	5	5	5	5	4	5
107.5	0	2	3	4	5	5	5	5	4	5
110.0	1	2	3	5	5	5	5	5	5	5
112.5	1	3	3	5	5	5	5	5	5	5
115.0	2	3	4	5	6	5	5	5	5	5
117.5	3	4	4	5	6	6	6	6	6	6
120.0	4	4	5	6	6	6	6	6	6	6
122.5	5	5	6	6	6	6	6	6	6	6
125.0	5	6	6	6	6	6	6	6	6	6
127.5	6	6	6	6	6	6	6	7	7	7
130.0	6	6	6	6	6	6	6	7	7	7
132.5	6	6	6	6	6	6	7	7	7	7
135.0	6	6	6	6	6	6	6	7	7	7
137.5	2	3	4	4	5	5	6	6	6	6
140.0	0	1	1	2	3	4	5	6	6	6
142.5	0	0	0	2	3	3	4	5	6	5
145.0	0	0	0	1	2	3	4	5	6	5
147.5	0	0	0	1	2	4	5	6	6	5
150.0	0	0	0	1	3	4	5	6	6	5
152.5	0	0	0	2	3	4	5	6	6	6
155.0	0	0	0	2	3	4	5	6	6	5
157.5	0	0	0	1	3	4	5	6	6	5
160.0	0	0	0	1	2	3	4	5	5	4
162.5	0	0	0	1	2	3	4	5	5	4
165.0	0	0	0	0	1	2	3	4	4	4
167.5	0	0	0	0	1	2	3	4	4	3
170.0	0	0	0	0	1	1	2	3	3	3
172.5	0	0	0	0	0	1	2	3	3	3
175.0	0	0	0	0	0	1	2	3	3	3
177.5	0	0	0	0	0	1	1	2	3	2
180.0	1	1	1	1	1	1	1	1	1	1

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

	<b>175</b>	<b>180</b>
0.0	1764	1764
2.5	1711	1678
5.0	1534	1515
7.5	1458	1429
10.0	1425	1358
12.5	1595	1552
15.0	1781	1750
17.5	1858	1805
20.0	1589	1514
22.5	1065	1050
25.0	613	598

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-PT-2-LED-25L-30-IL.IES**

**CANDELA TABULATION - (Cont.)**

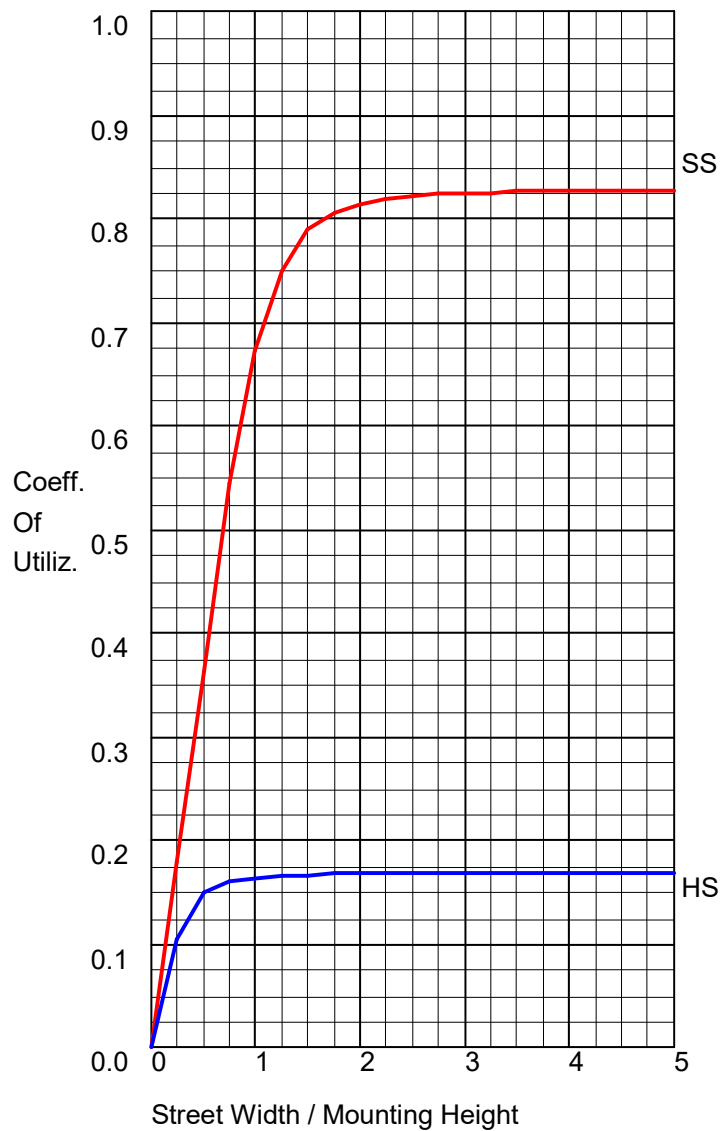
27.5	454	451
30.0	406	405
32.5	385	384
35.0	355	355
37.5	318	321
40.0	271	270
42.5	217	214
45.0	172	171
47.5	134	133
50.0	102	101
52.5	74	74
55.0	50	50
57.5	28	27
60.0	12	12
62.5	6	6
65.0	3	4
67.5	4	4
70.0	4	4
72.5	3	2
75.0	2	2
77.5	3	2
80.0	3	3
82.5	3	3
85.0	3	4
87.5	3	3
90.0	3	3
92.5	3	3
95.0	3	2
97.5	3	2
100.0	3	2
102.5	3	3
105.0	2	2
107.5	2	3
110.0	3	3
112.5	3	2
115.0	3	3
117.5	4	4
120.0	5	5
122.5	6	6
125.0	6	6
127.5	7	7
130.0	7	7
132.5	8	8
135.0	7	7
137.5	6	6
140.0	4	4
142.5	4	4
145.0	3	3
147.5	3	3
150.0	4	3
152.5	4	4
155.0	3	4
157.5	3	3
160.0	2	2
162.5	2	1
165.0	1	0

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-PT-2-LED-25L-30-IL.IES**

**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	<b>1</b>	<b>0</b>
<b>170.0</b>	<b>1</b>	<b>0</b>
<b>172.5</b>	<b>1</b>	<b>0</b>
<b>175.0</b>	<b>1</b>	<b>0</b>
<b>177.5</b>	<b>1</b>	<b>0</b>
<b>180.0</b>	<b>1</b>	<b>1</b>

COEFFICIENTS OF UTILIZATION

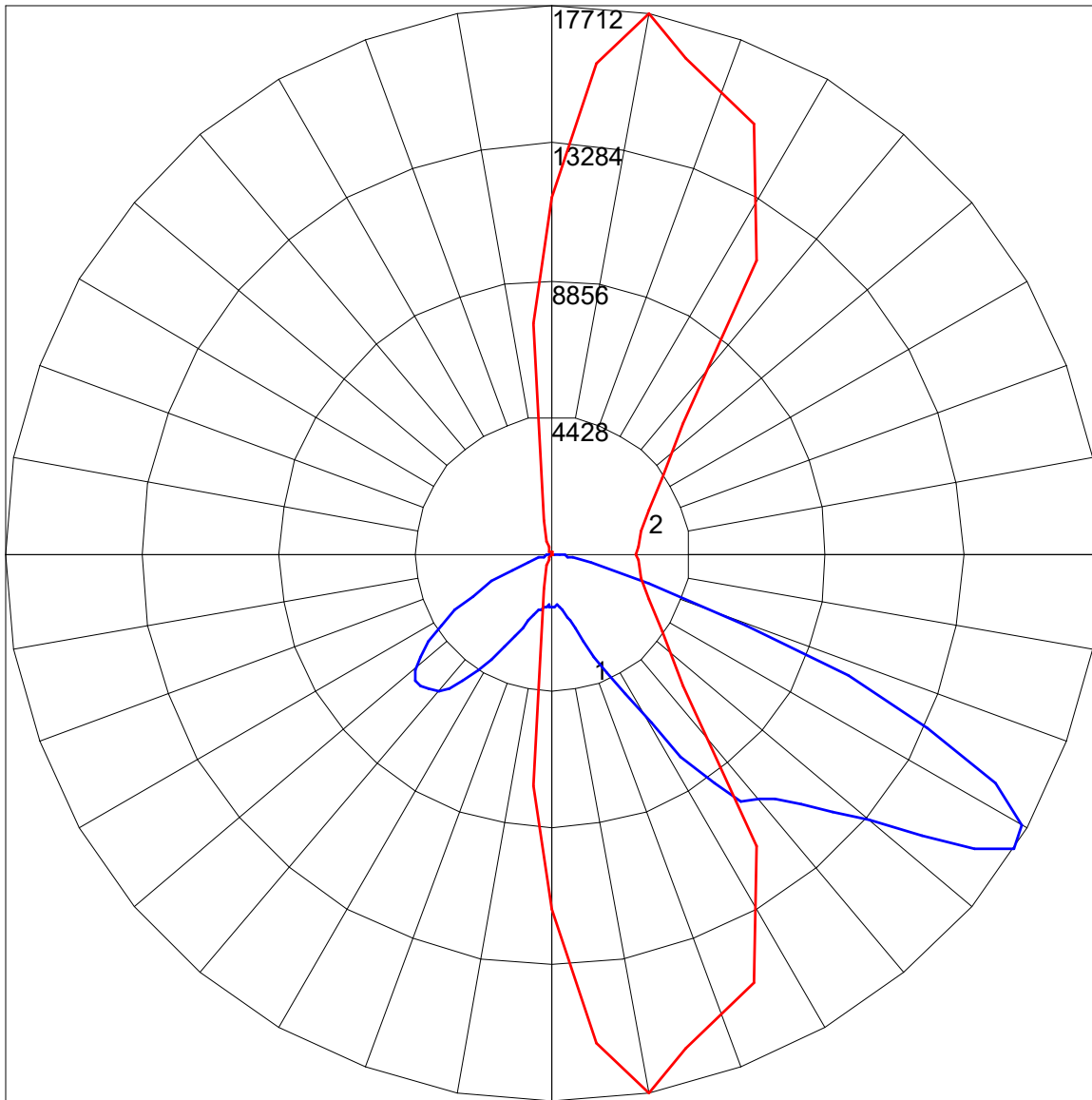


FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	14292.4	83.0
Downward House Side	2906.9	16.9
Downward Total	17199.3	99.9
Upward Street Side	7.9	0.0
Upward House Side	16.2	0.1
Upward Total	24.1	0.1
Total Flux	17223.4	100.0

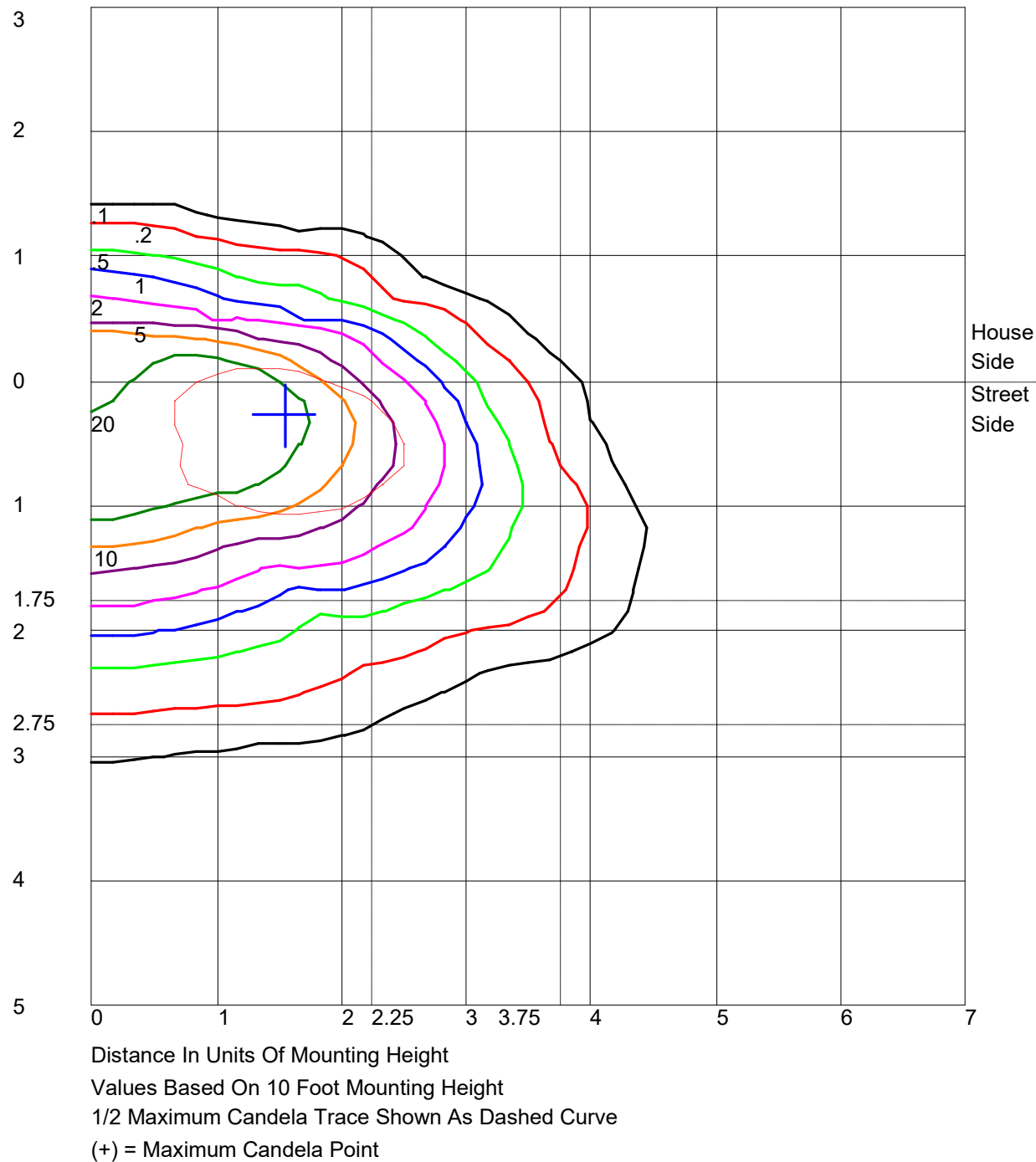


POLAR GRAPH

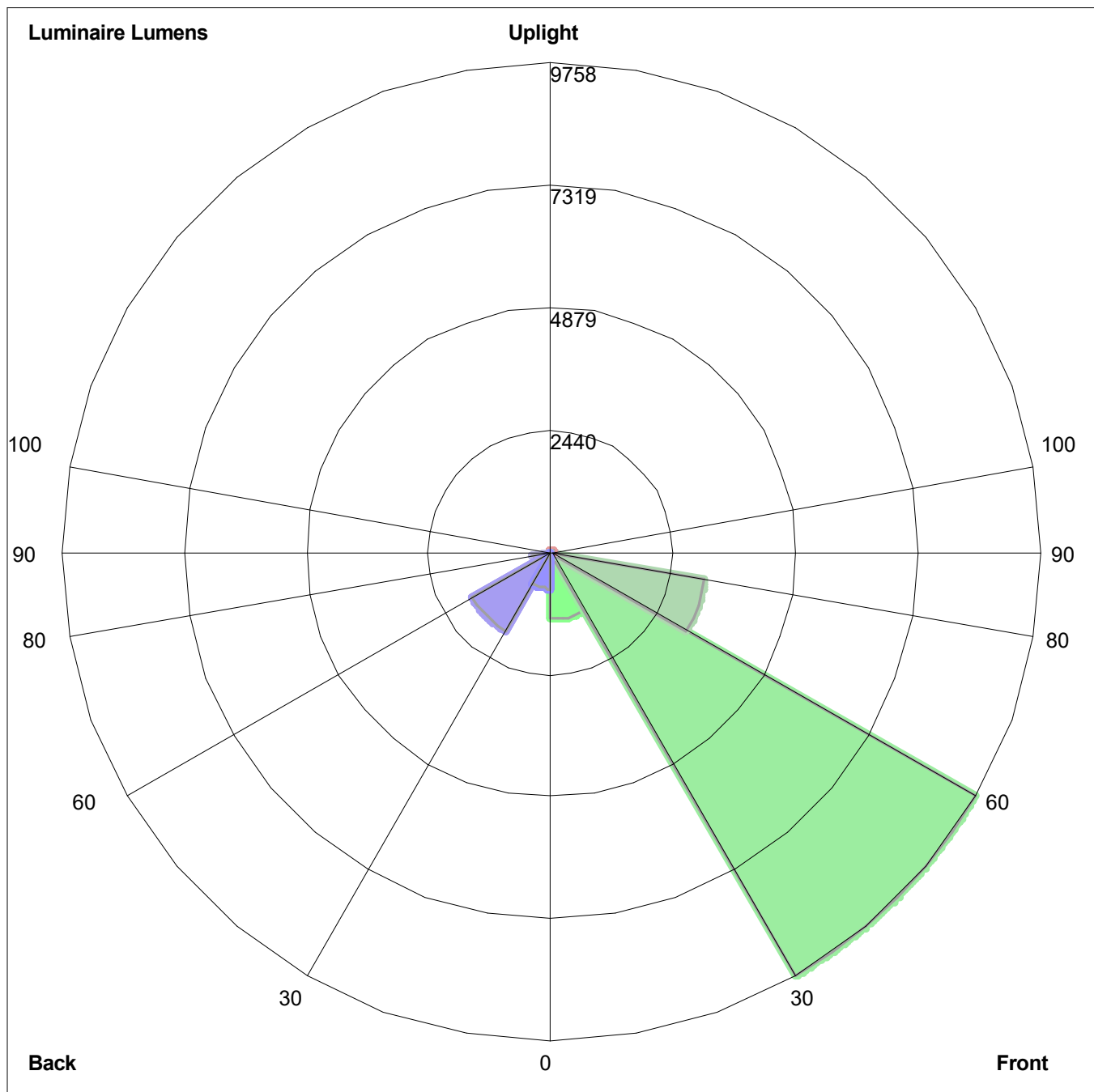


Maximum Candela = 17712 Located At Horizontal Angle = 80, Vertical Angle = 57.5  
# 1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low= 1342.0, Medium=9758.2, High=3124.3, Very High=67.9  
Back: Low=724.2, Medium=1804.9, High=365.4, Very High=12.3  
Uplight: Low=5.4, High=18.7

BUG Rating : B2-U2-G2