



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-25L-30-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11746
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/23/20
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-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	17281
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	227.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	17669
Maximum Candela Angle	80H 57.5V
Maximum Candela (<90 Degrees Vertical)	17669
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	698 (4.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1334.0	N.A.	7.7
FM - Front-Medium (30-60)	9734.9	N.A.	56.3
FH - Front-High (60-80)	3196.5	N.A.	18.5
FVH - Front-Very High (80-90)	67.8	N.A.	0.4
BL - Back-Low (0-30)	723.4	N.A.	4.2
BM - Back-Medium (30-60)	1813.4	N.A.	10.5
BH - Back-High (60-80)	375.8	N.A.	2.2
BVH - Back-Very High (80-90)	12.3	N.A.	0.1
UL - Uplight-Low (90-100)	5.3	N.A.	0.0
UH - Uplight-High (100-180)	17.9	N.A.	0.1
Total	17281.3	N.A.	100.0
BUG Rating	B2-U2-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>80</u>
0.0	1776	1776	1776	1776	1776	1776	1776	1776	1776	1776
2.5	1808	1816	1812	1829	1827	1827	1836	1820	1794	1764
5.0	1809	1835	1875	1857	1913	1783	1792	1738	1693	1681
7.5	1845	1898	1925	1826	1869	1792	1817	1880	1836	1783
10.0	1961	1952	2034	1883	1936	1968	1988	1961	1909	1851
12.5	2121	2220	2143	2087	2136	2104	2132	2099	2087	2090
15.0	2285	2381	2340	2398	2451	2336	2367	2329	2365	2282
17.5	2443	2513	2489	2543	2611	2716	2596	2654	2700	2572
20.0	2774	2829	2815	2786	2868	2917	2992	2969	3024	3002
22.5	2990	3012	3080	3158	3199	3217	3469	3453	3561	3547
25.0	3416	3320	3414	3495	3588	3577	3923	4150	4175	4191
27.5	3902	4007	4048	3939	3973	4092	4429	5005	5211	5106
30.0	4547	4439	4411	4436	4495	4716	5088	6008	6227	6165
32.5	5370	5439	5098	4909	5096	5292	5956	7293	7633	7565
35.0	6219	6142	5861	5720	5660	6118	6835	8362	9087	8938
37.5	7106	7096	6700	6421	6565	6745	7673	9173	9753	9920
40.0	7506	7523	7398	7271	7307	7544	8337	9500	10227	10257
42.5	7665	7635	7587	7632	7984	8227	9122	9727	10387	10586
45.0	7483	7492	7494	7732	8291	8981	9983	10369	10920	11265
47.5	6929	6912	7053	7436	8167	9283	10855	11443	11732	12243
50.0	6129	6095	6274	6693	7614	9128	11744	12646	12688	13280
52.5	5099	5099	5295	5728	6726	8491	12250	13976	13893	14963
55.0	3964	3951	4154	4678	5625	7468	12301	15084	15346	16510
57.5	2836	2779	3014	3495	4373	6169	11656	15396	16496	17669
60.0	1934	1918	2106	2450	3135	4649	10244	14872	16862	17648
62.5	1359	1369	1478	1704	2120	3154	8385	13041	15966	16391
65.0	949	947	1038	1252	1525	2011	6346	10973	13798	13629
67.5	617	646	703	886	1143	1359	4309	8219	10936	10454
70.0	390	402	422	587	830	980	2618	5613	7661	6745
72.5	289	300	300	371	576	705	1357	3508	4443	3378
75.0	200	208	206	241	387	510	756	2132	2176	1348
77.5	132	133	138	148	238	360	455	1214	1137	725
80.0	88	93	96	93	131	234	286	649	698	492
82.5	84	83	80	75	82	117	169	325	441	379
85.0	63	62	60	60	65	83	99	158	227	228
87.5	37	37	36	35	38	49	60	78	85	82
90.0	13	13	10	8	8	9	5	9	12	9
92.5	5	5	5	5	3	0	0	0	1	1
95.0	4	3	4	4	2	0	0	0	0	0
97.5	4	3	4	4	2	0	0	0	0	0
100.0	3	3	4	4	2	0	0	0	0	0
102.5	4	3	4	4	2	0	0	0	0	0
105.0	4	3	4	4	2	0	0	0	0	0
107.5	4	4	4	4	2	0	0	0	0	0
110.0	5	4	5	5	2	0	0	0	0	0
112.5	5	5	5	5	3	1	0	0	0	0
115.0	5	5	5	5	3	1	0	0	1	1
117.5	6	6	5	5	4	1	0	0	1	2
120.0	8	7	6	5	4	2	0	1	2	2
122.5	9	8	7	6	5	3	0	1	3	3
125.0	10	9	8	6	5	3	1	2	4	4
127.5	11	10	9	7	5	4	2	3	4	5
130.0	12	11	10	7	5	4	2	3	5	5

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PHOTOMETRIC FILENAME : LXM4-PT-2-LED-25L-30-IL.IES

CANDELA TABULATION - (Cont.)

132.5	12	11	10	8	5	4	2	3	5	5
135.0	11	10	8	6	5	4	2	3	4	5
137.5	5	5	5	4	3	1	0	0	1	2
140.0	1	1	2	2	0	0	0	0	0	0
142.5	1	1	2	1	0	0	0	0	0	0
145.0	1	1	2	1	0	0	0	0	0	0
147.5	1	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	1	1	1	1	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	1	1	1	1	0	0	0	0	0	0
175.0	1	1	2	2	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	1776	1776	1776	1776	1776	1776	1776	1776	1776	1776
2.5	1772	1767	1775	1766	1743	1756	1764	1767	1751	1738
5.0	1701	1686	1654	1638	1651	1647	1617	1632	1605	1557
7.5	1755	1761	1723	1735	1649	1566	1441	1460	1439	1481
10.0	1824	1783	1728	1758	1556	1517	1451	1408	1336	1390
12.5	1979	1950	1909	1813	1625	1519	1435	1474	1478	1556
15.0	2188	2130	2003	1846	1599	1555	1561	1641	1679	1654
17.5	2468	2322	2205	1959	1658	1657	1750	1793	1788	1776
20.0	2803	2687	2491	2071	1757	1826	1839	1867	1751	1595
22.5	3373	3058	2863	2339	1927	1964	1921	1695	1379	1153
25.0	3975	3733	3352	2535	2228	2097	1744	1243	892	689
27.5	4804	4367	3955	2859	2465	2056	1358	818	551	464
30.0	5831	5259	4611	3201	2659	1827	965	550	452	410
32.5	6938	6220	5318	3534	2764	1504	653	469	403	379
35.0	8216	7290	6136	3907	2676	1127	547	423	379	358
37.5	9198	8362	6820	4191	2419	766	494	395	346	322
40.0	9641	8837	7150	4424	2040	610	448	365	307	280
42.5	10130	9348	7411	4436	1429	540	407	326	263	228
45.0	10822	9924	7788	4316	903	482	364	280	215	182
47.5	11820	10708	8151	3941	659	429	310	229	171	142
50.0	12911	11450	8449	3288	564	380	257	179	136	110
52.5	14247	12102	8564	2443	512	329	205	136	105	83
55.0	15656	12257	8387	1647	472	276	160	104	81	59
57.5	16207	11767	7699	1161	436	224	119	75	58	37
60.0	15680	10689	6626	947	420	182	88	50	34	17
62.5	13846	9028	5333	784	400	143	62	27	18	9
65.0	11231	6926	3875	600	349	112	41	13	13	6
67.5	8018	4827	2364	423	265	82	26	10	11	6
70.0	4608	2885	1303	300	178	55	21	12	10	6
72.5	2077	1423	733	221	113	34	21	15	10	5
75.0	867	739	453	159	64	27	24	16	9	5
77.5	535	507	292	104	41	28	25	18	8	5

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CANDELA TABULATION - (Cont.)

80.0	424	356	189	57	31	27	26	19	9	5
82.5	303	217	112	27	26	25	25	19	9	6
85.0	175	111	53	14	18	24	24	17	8	6
87.5	60	28	8	7	14	21	20	16	8	5
90.0	3	3	4	6	13	19	19	13	7	5
92.5	0	2	4	6	12	17	16	11	6	5
95.0	0	2	3	5	9	14	12	8	5	5
97.5	0	2	3	5	7	9	7	6	5	5
100.0	0	2	3	5	6	6	6	5	5	5
102.5	0	2	3	5	5	5	5	5	4	5
105.0	0	2	3	4	5	5	5	5	4	5
107.5	0	2	3	5	5	5	5	5	4	4
110.0	1	2	3	5	5	5	5	5	4	5
112.5	1	2	3	5	5	5	5	5	5	5
115.0	2	3	4	5	5	5	5	5	5	5
117.5	3	3	4	5	5	5	5	5	5	5
120.0	4	4	5	5	5	5	5	5	5	5
122.5	4	5	5	5	6	6	6	6	6	6
125.0	5	5	5	5	6	6	6	6	6	6
127.5	5	5	5	6	6	6	6	7	7	7
130.0	5	5	6	6	6	6	6	7	7	7
132.5	5	5	6	6	6	6	6	7	7	7
135.0	5	5	5	6	6	6	6	7	7	7
137.5	2	3	4	4	5	5	5	6	6	6
140.0	0	0	1	2	3	4	5	5	5	5
142.5	0	0	0	1	3	4	4	5	5	5
145.0	0	0	0	1	3	4	4	5	5	5
147.5	0	0	0	1	3	4	5	5	5	5
150.0	0	0	0	1	3	4	5	5	5	5
152.5	0	0	0	2	3	4	5	5	5	5
155.0	0	0	0	2	3	4	5	5	5	5
157.5	0	0	0	2	3	4	5	5	5	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	2	2	4	4	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	2	2	3	3
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	<u>175</u>	<u>180</u>
0.0	1776	1776
2.5	1718	1687
5.0	1547	1528
7.5	1462	1428
10.0	1429	1387
12.5	1595	1545
15.0	1775	1741
17.5	1857	1799
20.0	1576	1497
22.5	1052	1035
25.0	605	590

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PHOTOMETRIC FILENAME : LXM4-PT-2-LED-25L-30-IL.IES

CANDELA TABULATION - (Cont.)

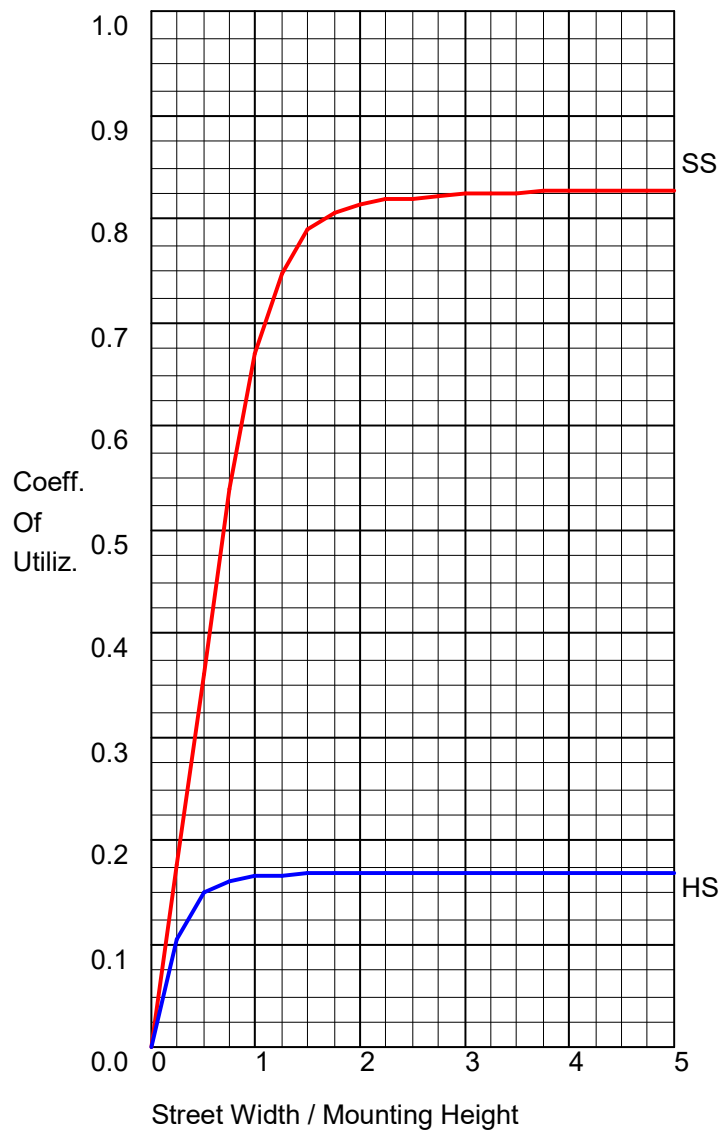
27.5	452	448
30.0	404	403
32.5	383	383
35.0	354	354
37.5	318	321
40.0	268	268
42.5	217	213
45.0	171	169
47.5	133	131
50.0	101	100
52.5	73	72
55.0	49	49
57.5	27	26
60.0	11	11
62.5	5	5
65.0	3	3
67.5	4	4
70.0	4	4
72.5	3	2
75.0	2	2
77.5	3	2
80.0	3	3
82.5	3	3
85.0	3	3
87.5	3	3
90.0	3	3
92.5	3	3
95.0	3	2
97.5	2	2
100.0	2	2
102.5	2	2
105.0	2	2
107.5	2	2
110.0	3	2
112.5	3	3
115.0	3	3
117.5	4	4
120.0	5	5
122.5	5	5
125.0	6	6
127.5	7	7
130.0	7	8
132.5	7	8
135.0	7	7
137.5	5	5
140.0	4	4
142.5	4	4
145.0	3	4
147.5	3	4
150.0	3	4
152.5	4	4
155.0	3	4
157.5	3	3
160.0	2	2
162.5	2	1
165.0	1	0

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PHOTOMETRIC FILENAME : LXM4-PT-2-LED-25L-30-IL.IES

CANDELA TABULATION - (Cont.)

167.5	1	0
170.0	1	0
172.5	1	0
175.0	1	0
177.5	1	0
180.0	1	1

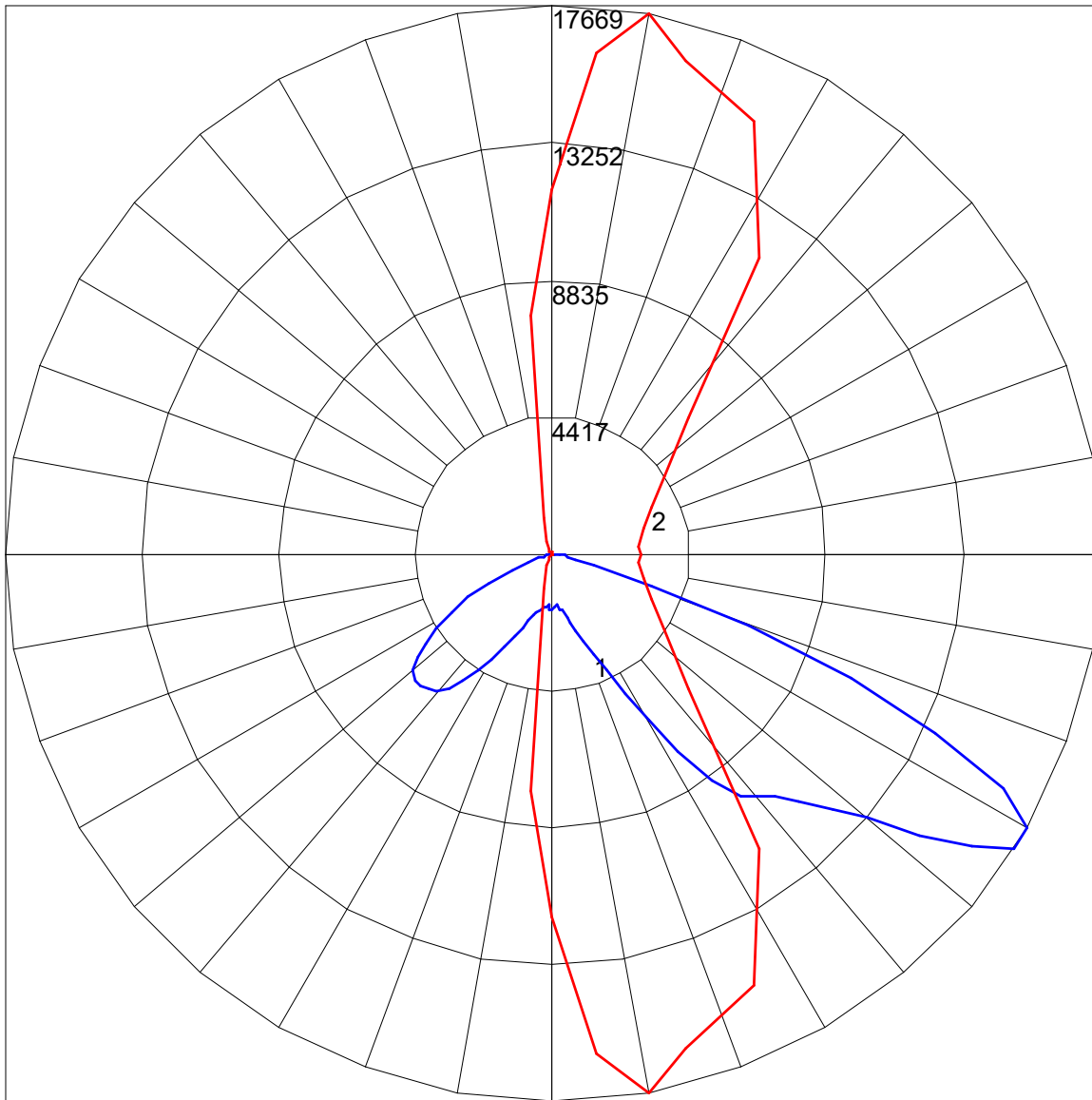
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

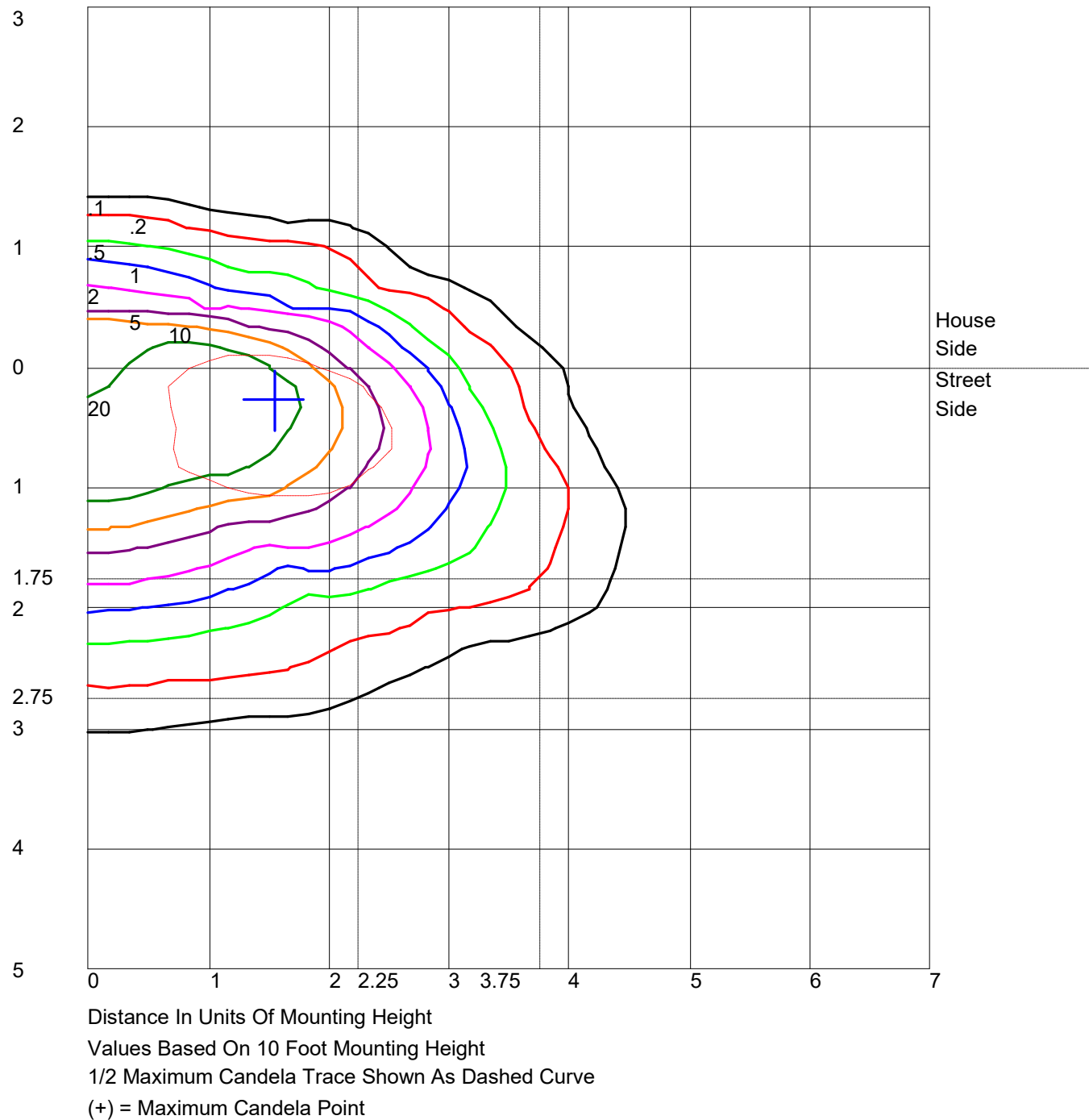
	Lumens	Percent Of Luminaire
Downward Street Side	14333.1	82.9
Downward House Side	2925.0	16.9
Downward Total	17258.1	99.9
Upward Street Side	7.5	0.0
Upward House Side	15.7	0.1
Upward Total	23.2	0.1
Total Flux	17281.3	100.0

POLAR GRAPH

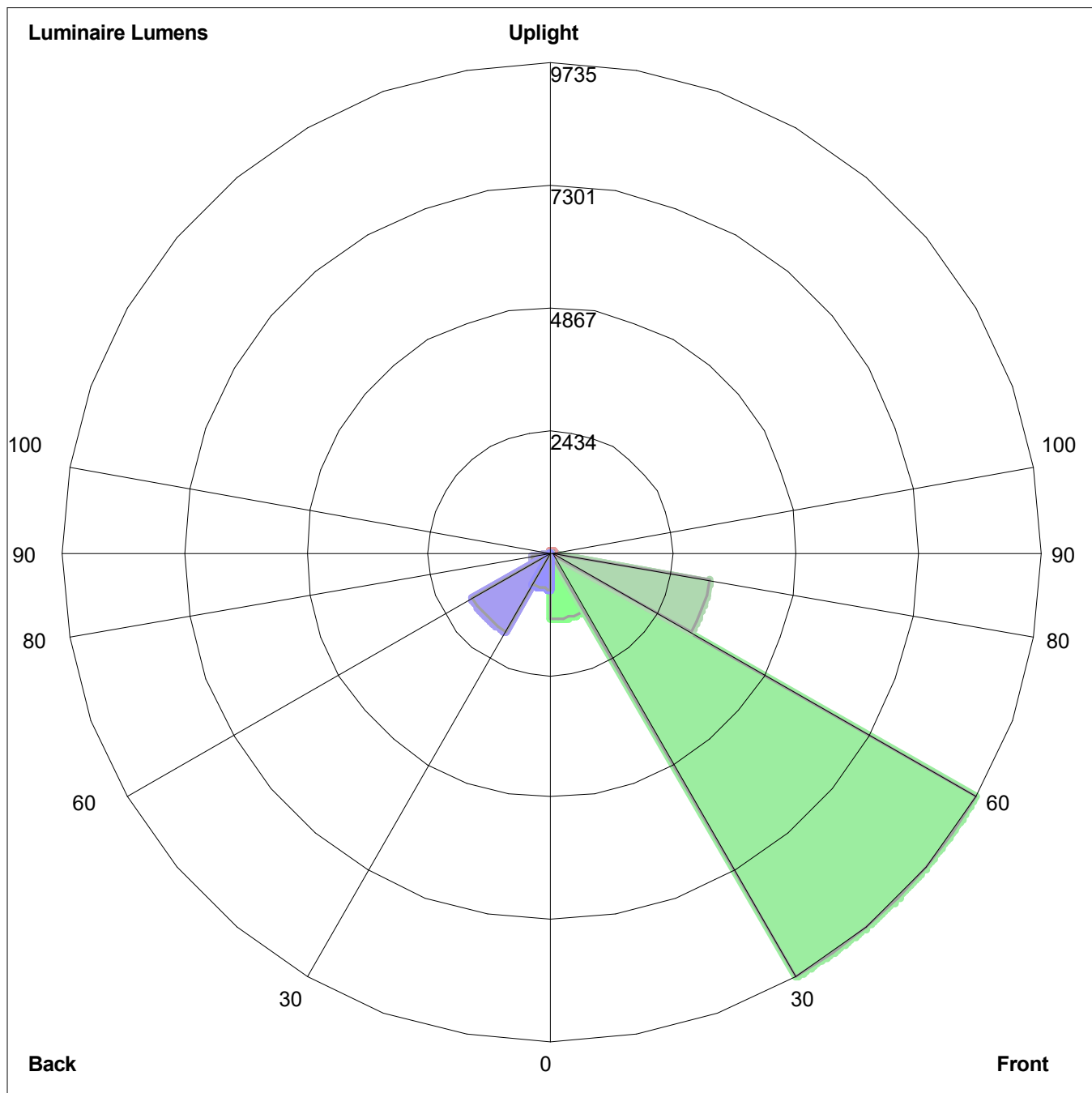


Maximum Candela = 17669 Located At Horizontal Angle = 80, Vertical Angle = 57.5
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 1334.0, Medium=9734.9, High=3196.5, Very High=67.8
Back: Low=723.4, Medium=1813.4, High=375.8, Very High=12.3
Uplight: Low=5.3, High=17.9

BUG Rating : B2-U2-G2