



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-3-LED-18L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11676
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/02/20
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMEN CATEGORY] LXM4-PT-3-LED-18L-30
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCE TYPE] 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	17106
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	148.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	16501
Maximum Candela Angle	57.5H 65V
Maximum Candela (<90 Degrees Vertical)	16501
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 65V
Maximum Candela At 90 Degrees Vertical	75 (0.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1041 (6.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	513.4	N.A.	3.0
FM - Front-Medium (30-60)	7386.9	N.A.	43.2
FH - Front-High (60-80)	5508.4	N.A.	32.2
FVH - Front-Very High (80-90)	133.1	N.A.	0.8
BL - Back-Low (0-30)	490.2	N.A.	2.9
BM - Back-Medium (30-60)	2002.2	N.A.	11.7
BH - Back-High (60-80)	935.4	N.A.	5.5
BVH - Back-Very High (80-90)	89.9	N.A.	0.5
UL - Uplight-Low (90-100)	15.0	N.A.	0.1
UH - Uplight-High (100-180)	31.9	N.A.	0.2
Total	17106.4	N.A.	100.0
BUG Rating	B2-U2-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	57.5	65.0	75.0
0.0	842	842	842	842	842	842	842	842	842	842
2.5	815	819	814	811	815	819	833	833	832	832
5.0	740	741	756	770	786	768	763	761	762	771
7.5	707	719	738	725	722	714	739	753	788	780
10.0	714	708	710	701	713	755	771	774	782	792
12.5	749	747	744	720	752	772	792	794	810	827
15.0	797	791	792	804	824	815	844	853	863	877
17.5	858	855	841	864	879	908	896	907	918	946
20.0	992	986	965	966	984	1004	1020	1018	1012	1023
22.5	1109	1139	1150	1176	1164	1179	1219	1206	1153	1159
25.0	1359	1348	1392	1437	1449	1454	1507	1479	1437	1362
27.5	1791	1864	1850	1811	1821	1904	1881	1837	1846	1691
30.0	2361	2364	2326	2361	2309	2409	2392	2333	2288	2031
32.5	3083	3048	2889	2837	2915	2989	2982	2947	2820	2488
35.0	3595	3583	3508	3496	3510	3655	3580	3543	3350	2921
37.5	4363	4298	4155	4114	4146	4305	4192	4179	3807	3281
40.0	4981	4963	4902	4830	4829	4892	4717	4676	4220	3613
42.5	5700	5682	5620	5550	5515	5461	5262	5139	4609	3845
45.0	6632	6602	6563	6477	6290	6168	5723	5609	4949	4076
47.5	7805	7765	7773	7749	7290	6870	6226	6084	5303	4352
50.0	9229	9212	9263	9192	8589	7705	6835	6650	5749	4713
52.5	10672	10726	10911	10833	10136	8740	7649	7388	6395	5254
55.0	11352	11368	11747	12150	11837	10084	8711	8470	7426	6011
57.5	11114	11148	11743	12529	13087	11741	10159	9996	8724	7253
60.0	8967	9082	10413	11923	13433	13349	12209	12012	10552	8638
62.5	5450	5522	6730	9366	12737	14371	14667	14500	12486	9795
65.0	2693	2738	3536	5455	10019	14064	16423	16501	13495	10051
67.5	1364	1387	1680	2757	5983	11705	15976	16264	13873	9086
70.0	827	849	1032	1523	3102	7585	13158	13839	12018	6601
72.5	491	500	661	1042	1885	3975	8680	9481	7670	3599
75.0	339	352	459	779	1317	2135	4332	4836	3910	1457
77.5	254	265	356	661	1031	1298	2116	2232	1693	625
80.0	182	192	277	557	843	826	950	1041	870	333
82.5	125	135	214	394	621	534	459	498	442	212
85.0	95	101	160	300	357	304	223	238	236	138
87.5	89	92	119	213	213	112	88	89	93	71
90.0	49	49	64	75	67	28	26	25	22	17
92.5	15	15	16	16	9	9	11	11	10	9
95.0	6	6	6	5	5	7	9	9	9	8
97.5	5	5	5	5	5	6	7	7	7	7
100.0	5	5	5	5	5	6	6	6	6	6
102.5	5	5	5	5	5	5	5	5	5	6
105.0	4	5	5	5	5	5	5	5	5	5
107.5	4	5	5	5	5	5	5	5	5	6
110.0	5	5	5	5	5	5	5	5	5	6
112.5	5	5	5	5	5	6	5	5	5	6
115.0	5	5	5	5	5	6	5	5	5	6
117.5	5	5	5	5	6	6	5	5	5	6
120.0	6	6	5	6	6	6	5	5	5	6
122.5	6	6	6	6	6	6	6	6	6	7
125.0	6	6	6	6	6	7	6	6	6	7
127.5	6	7	6	7	7	7	6	6	6	7
130.0	7	7	7	7	7	7	6	6	6	7

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CANDELA TABULATION - (Cont.)

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

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	842	842	842	842	842	842	842	842	842	842
2.5	839	846	844	846	851	856	871	874	864	852
5.0	779	779	781	812	833	844	869	879	876	860
7.5	800	803	819	863	846	833	822	847	835	866
10.0	803	808	816	856	834	869	866	872	872	900
12.5	843	853	886	883	879	884	909	981	982	1031
15.0	888	902	905	901	891	959	1008	1077	1099	1088
17.5	944	936	947	956	943	1053	1136	1160	1161	1162
20.0	1024	1012	1022	969	1002	1127	1169	1231	1251	1249
22.5	1145	1112	1118	1070	1125	1213	1272	1282	1277	1302
25.0	1331	1278	1254	1134	1273	1316	1301	1321	1336	1365
27.5	1557	1455	1413	1268	1386	1390	1362	1382	1420	1446
30.0	1838	1694	1588	1381	1454	1510	1445	1451	1473	1507
32.5	2092	1917	1745	1489	1535	1618	1565	1537	1593	1689
35.0	2408	2143	1895	1581	1569	1688	1663	1648	1754	1876
37.5	2653	2332	2015	1626	1585	1725	1705	1773	1917	2085
40.0	2835	2441	2047	1639	1585	1741	1725	1810	2137	2202
42.5	2963	2525	2060	1594	1531	1723	1713	1830	2315	2175
45.0	3142	2613	2083	1546	1469	1658	1681	1780	2503	2056
47.5	3329	2745	2139	1510	1406	1590	1628	1728	2551	1960
50.0	3627	2962	2255	1496	1346	1521	1572	1683	2505	1918
52.5	4056	3259	2423	1505	1287	1462	1512	1621	2345	1885
55.0	4600	3665	2673	1520	1234	1389	1442	1535	2098	1842
57.5	5409	4206	2916	1520	1170	1290	1362	1428	1785	1759
60.0	6359	4681	2887	1436	1090	1167	1255	1288	1464	1711
62.5	6957	4832	2531	1257	998	1043	1129	1150	1181	1656
65.0	6758	4439	1934	1043	903	935	996	1048	997	1572
67.5	5447	3609	1361	855	799	821	879	954	872	1419
70.0	3313	2214	869	690	687	702	768	871	797	1199
72.5	1499	964	517	537	560	591	655	778	698	908
75.0	579	435	341	421	471	503	559	614	502	621
77.5	292	236	261	359	401	433	420	378	304	396

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CANDELA TABULATION - (Cont.)

80.0	176	160	214	309	339	309	255	281	217	288
82.5	124	113	180	266	254	202	184	207	135	210
85.0	78	76	141	204	163	140	131	105	65	133
87.5	38	40	98	127	95	79	52	49	29	61
90.0	14	9	34	51	42	35	25	15	6	8
92.5	8	8	17	27	34	31	22	12	3	3
95.0	7	8	16	26	32	28	20	11	4	3
97.5	6	7	13	21	26	24	17	10	4	3
100.0	6	7	10	17	22	20	16	9	4	3
102.5	6	7	9	15	18	17	14	9	5	3
105.0	6	7	9	13	16	15	13	9	5	3
107.5	6	7	9	11	13	14	12	9	5	4
110.0	6	8	9	10	12	12	11	9	5	4
112.5	6	8	9	10	12	12	11	9	6	4
115.0	7	8	9	10	12	12	11	9	6	5
117.5	7	8	9	10	12	12	11	9	6	5
120.0	7	8	9	10	12	12	11	9	7	5
122.5	8	9	9	11	13	13	12	10	7	5
125.0	8	9	9	11	12	13	12	10	8	6
127.5	8	9	10	10	12	13	12	10	8	6
130.0	8	9	9	10	12	13	12	10	8	6
132.5	8	9	9	10	12	12	11	10	8	6
135.0	8	9	9	10	11	11	10	8	6	5
137.5	6	7	8	8	9	9	8	6	5	3
140.0	5	6	6	7	7	7	6	5	4	2
142.5	5	5	6	6	7	7	6	5	3	1
145.0	5	5	5	6	6	6	5	4	3	1
147.5	5	5	5	5	6	6	5	4	2	1
150.0	5	5	5	5	6	6	5	4	2	0
152.5	5	5	5	5	5	5	5	3	2	0
155.0	5	5	5	5	5	5	5	3	1	0
157.5	4	5	5	5	5	5	4	3	1	0
160.0	4	5	5	5	5	5	4	2	0	0
162.5	4	4	5	5	5	5	3	2	0	0
165.0	4	4	5	5	5	5	3	2	0	0
167.5	4	4	4	5	5	4	3	2	0	0
170.0	4	4	4	5	5	4	3	2	0	0
172.5	4	4	4	4	5	4	3	2	0	0
175.0	4	4	4	4	5	4	3	2	1	0
177.5	4	4	4	4	4	4	3	2	1	0
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	842	842
2.5	850	854
5.0	857	870
7.5	871	884
10.0	929	935
12.5	1037	1046
15.0	1128	1151
17.5	1201	1212
20.0	1278	1281
22.5	1296	1336
25.0	1381	1415

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CANDELA TABULATION - (Cont.)

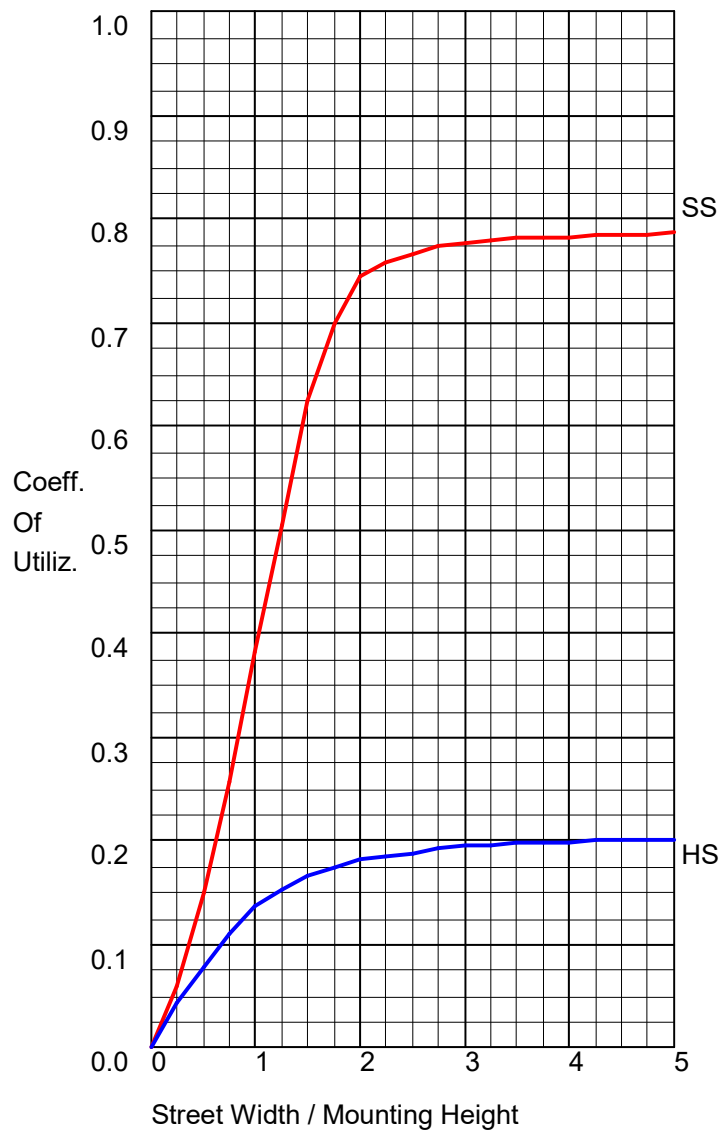
27.5	1445	1469
30.0	1541	1573
32.5	1731	1753
35.0	1936	1948
37.5	2093	2082
40.0	1967	1925
42.5	1742	1691
45.0	1587	1531
47.5	1492	1434
50.0	1414	1360
52.5	1347	1282
55.0	1259	1163
57.5	1184	1065
60.0	1183	1021
62.5	1236	1032
65.0	1331	1104
67.5	1454	1245
70.0	1531	1420
72.5	1381	1448
75.0	1109	1315
77.5	918	1104
80.0	684	796
82.5	474	537
85.0	331	364
87.5	254	371
90.0	14	24
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	1	0
105.0	1	1
107.5	2	1
110.0	2	2
112.5	2	2
115.0	3	3
117.5	3	3
120.0	4	4
122.5	4	4
125.0	5	5
127.5	5	5
130.0	5	5
132.5	5	5
135.0	4	4
137.5	2	1
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.)

167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	3	3

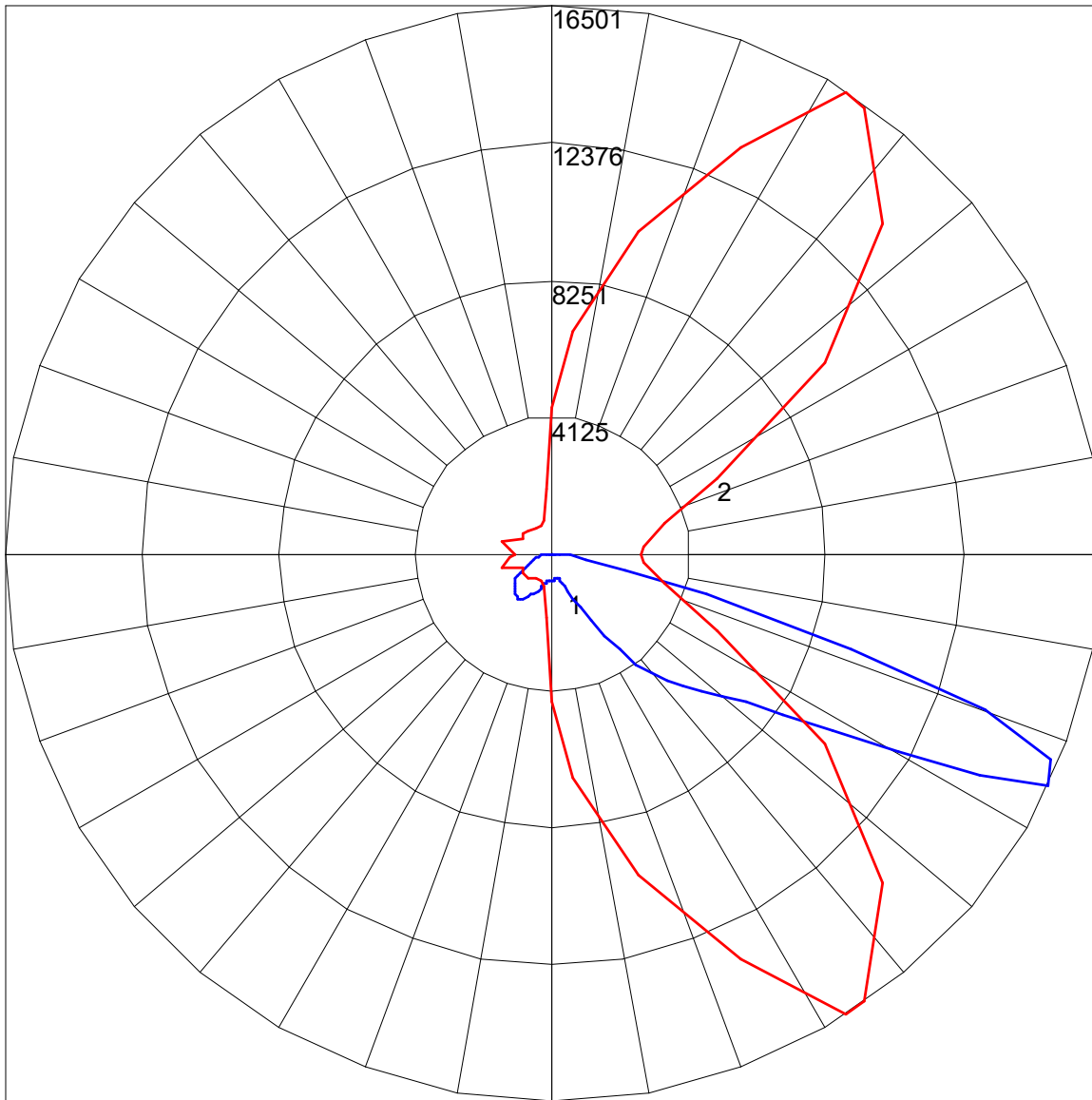
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

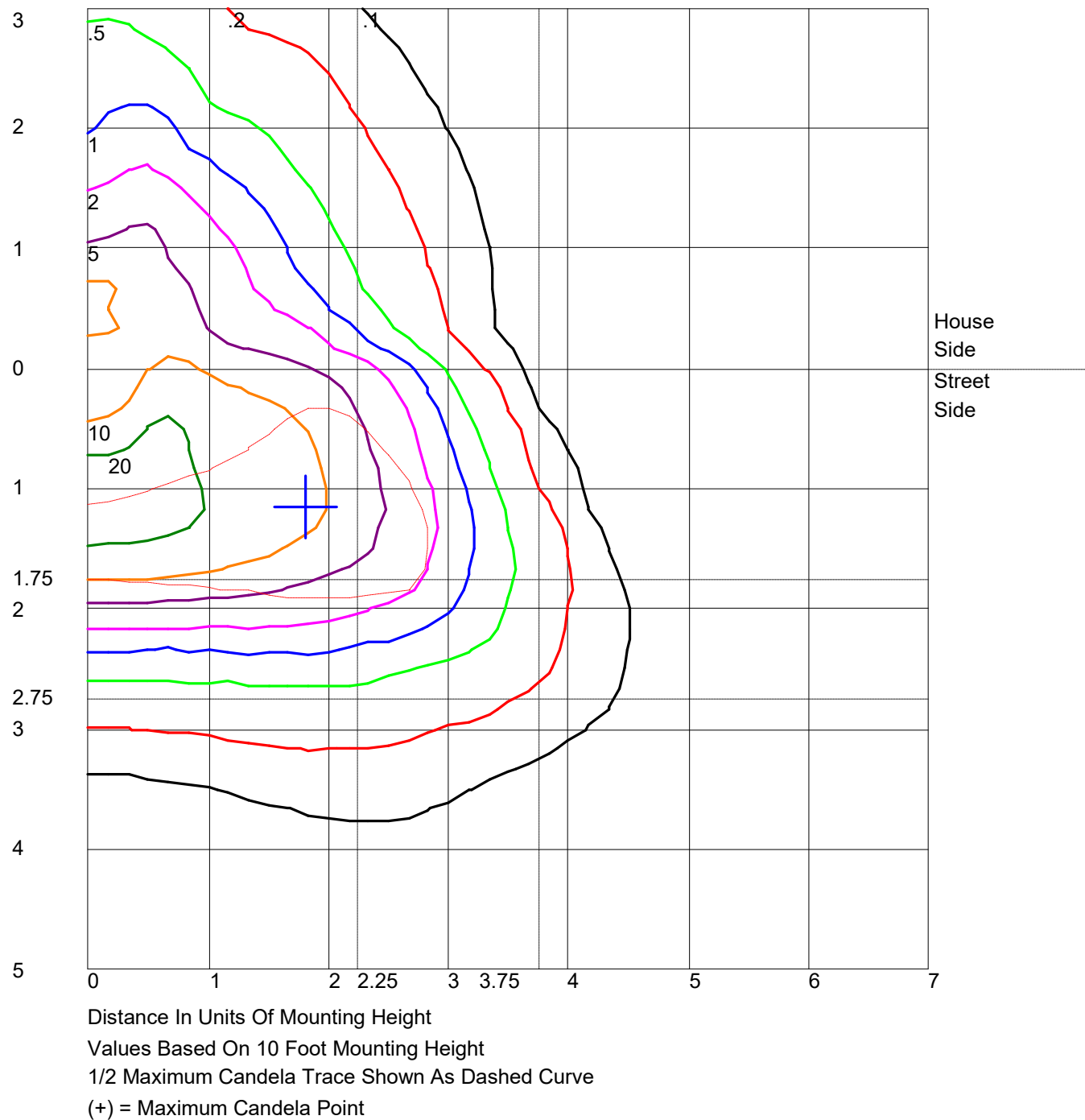
	Lumens	Percent Of Luminaire
Downward Street Side	13541.9	79.2
Downward House Side	3517.7	20.6
Downward Total	17059.6	99.7
Upward Street Side	19.4	0.1
Upward House Side	27.5	0.2
Upward Total	46.9	0.3
Total Flux	17106.5	100.0

POLAR GRAPH

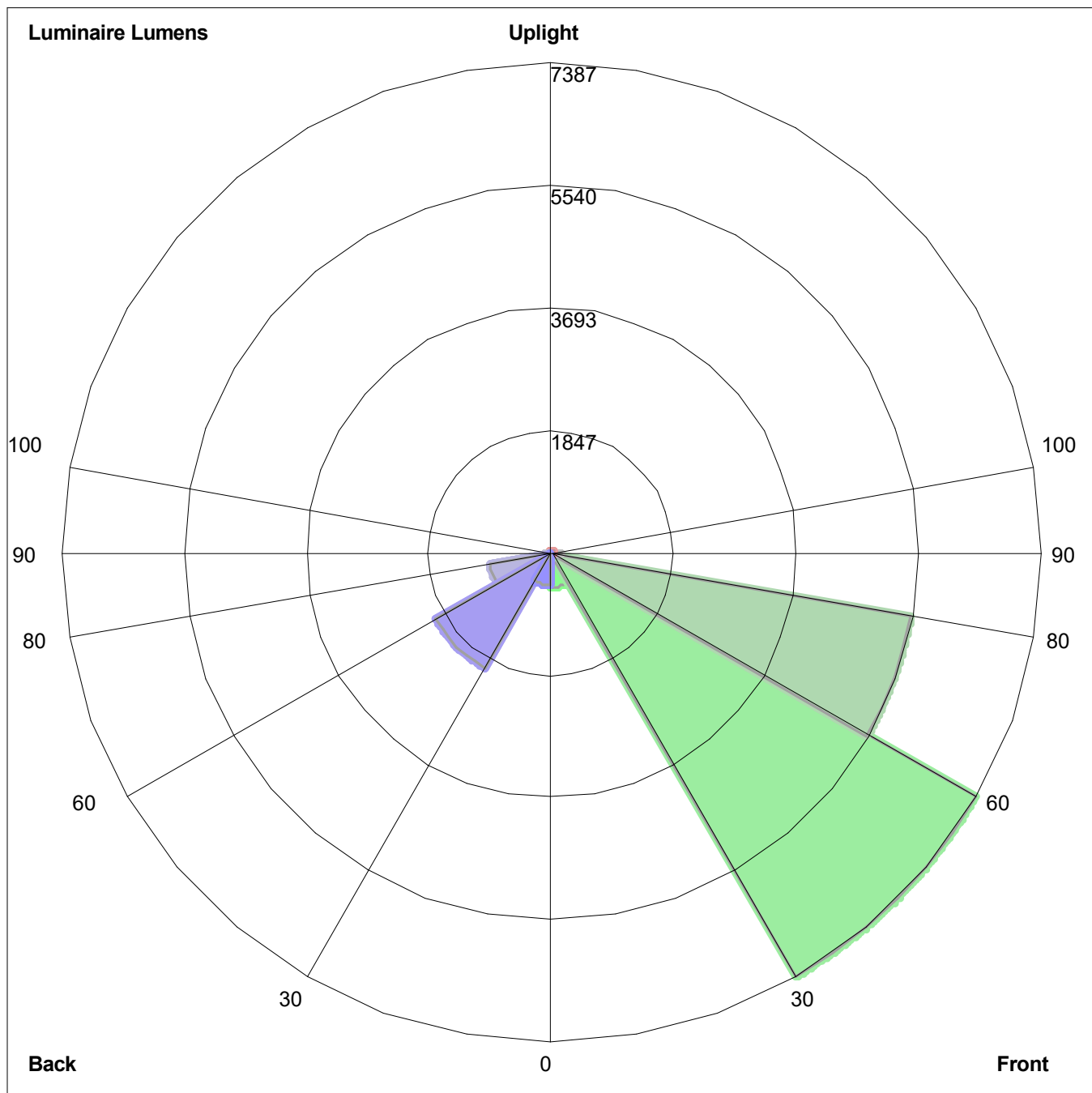


Maximum Candela = 16501 Located At Horizontal Angle = 57.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=513.4, Medium=7386.9, High=5508.4, Very High=133.1
Back: Low=490.2, Medium=2002.2, High=935.4, Very High=89.9
Uplight: Low=15.0, High=31.9

BUG Rating : B2-U2-G3