



IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-18L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11682
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/03/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-FT-LED-18L-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	18336
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	149
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12526
Maximum Candela Angle	40H 70V
Maximum Candela (<90 Degrees Vertical)	12526
Maximum Candela Angle (<90 Degrees Vertical)	40H 70V
Maximum Candela At 90 Degrees Vertical	165 (0.9% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2984 (16.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	855.7	N.A.	4.7
FM - Front-Medium (30-60)	5969.4	N.A.	32.6
FH - Front-High (60-80)	6583.1	N.A.	35.9
FVH - Front-Very High (80-90)	332.5	N.A.	1.8
BL - Back-Low (0-30)	767.2	N.A.	4.2
BM - Back-Medium (30-60)	2626.6	N.A.	14.3
BH - Back-High (60-80)	1068.4	N.A.	5.8
BVH - Back-Very High (80-90)	88.3	N.A.	0.5
UL - Uplight-Low (90-100)	14.0	N.A.	0.1
UH - Uplight-High (100-180)	30.9	N.A.	0.2
Total	18336.1	N.A.	100.0
BUG Rating	B3-U2-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	40	45	55	65	75
0.0	1446	1446	1446	1446	1446	1446	1446	1446	1446	1446
2.5	1447	1444	1427	1420	1428	1429	1435	1457	1464	1455
5.0	1320	1353	1375	1392	1426	1422	1374	1356	1341	1343
7.5	1286	1315	1374	1306	1317	1294	1306	1321	1430	1411
10.0	1280	1296	1322	1256	1309	1346	1389	1424	1434	1451
12.5	1297	1388	1354	1313	1391	1386	1425	1469	1507	1547
15.0	1372	1471	1447	1486	1546	1494	1504	1599	1639	1695
17.5	1499	1582	1528	1590	1644	1693	1708	1701	1790	1898
20.0	1778	1819	1805	1762	1815	1819	1861	1933	1957	2054
22.5	2037	2012	2055	2081	2076	2021	2093	2196	2173	2287
25.0	2310	2239	2306	2311	2320	2407	2370	2486	2456	2426
27.5	2600	2715	2707	2578	2565	2702	2742	2720	2695	2678
30.0	2962	2904	2868	2897	2892	2885	2989	2975	2950	2913
32.5	3442	3483	3219	3107	3224	3264	3187	3278	3208	3111
35.0	3852	3776	3642	3493	3436	3500	3544	3553	3407	3296
37.5	4309	4245	4027	3780	3849	3775	3814	3794	3625	3450
40.0	4586	4578	4428	4293	4127	4142	4180	4062	3860	3647
42.5	4878	4872	4750	4728	4571	4469	4482	4414	4121	3804
45.0	5220	5237	5130	5014	4928	4914	4877	4782	4418	4059
47.5	5611	5636	5530	5407	5287	5309	5247	5214	4868	4435
50.0	6091	6067	5970	5874	5746	5783	5778	5843	5500	4851
52.5	6528	6517	6479	6397	6314	6349	6451	6691	6183	5333
55.0	6968	6965	7012	6961	6978	7055	7299	7573	6950	5905
57.5	7439	7478	7564	7580	7750	7937	8303	8532	7777	6403
60.0	8003	8068	8248	8339	8846	8992	9409	9554	8482	6680
62.5	8571	8650	8948	9291	10092	10177	10621	10427	8881	6600
65.0	8996	9089	9593	10227	11423	11482	11715	10916	8746	6043
67.5	8632	8659	9557	10727	12401	12495	12257	10755	7902	4782
70.0	7033	7223	8377	10258	12367	12526	11988	9664	6234	3027
72.5	4852	5080	6309	8414	10996	11305	10593	7543	3969	1758
75.0	2356	2554	3604	5650	8276	8672	7975	4884	2291	1178
77.5	1146	1228	1890	3030	4878	5509	5105	2957	1508	801
80.0	659	707	1294	1916	2468	2984	2877	1842	979	524
82.5	485	515	914	1277	1451	1589	1599	1011	616	325
85.0	373	393	699	914	1052	936	712	485	318	185
87.5	250	276	504	496	604	418	182	191	113	82
90.0	61	91	165	92	78	44	30	13	9	9
92.5	21	19	28	16	9	10	9	7	6	6
95.0	6	6	7	8	8	9	8	7	6	6
97.5	5	6	6	7	7	8	8	6	6	6
100.0	5	5	5	6	6	7	7	6	6	6
102.5	4	4	5	5	6	6	6	6	6	6
105.0	4	4	4	5	5	6	6	5	5	6
107.5	4	4	4	5	5	6	6	5	5	6
110.0	5	5	5	5	6	6	6	5	6	6
112.5	5	5	5	5	6	6	6	5	6	6
115.0	5	5	5	6	6	6	6	5	6	7
117.5	6	6	6	6	6	6	6	6	6	7
120.0	7	7	6	6	7	7	7	6	6	7
122.5	7	7	7	7	7	7	7	6	7	8
125.0	8	8	8	7	7	7	7	7	7	8
127.5	8	8	8	8	8	8	7	7	7	8
130.0	9	9	8	8	8	8	8	7	8	9

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PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-18L-40.IES

CANDELA TABULATION - (Cont.)

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

Vert. Angles **Horizontal Angles**

	85	90	95	105	115	125	135	145	155	165
0.0	1446	1446	1446	1446	1446	1446	1446	1446	1446	1446
2.5	1446	1448	1457	1450	1445	1458	1468	1465	1458	1419
5.0	1346	1334	1328	1367	1373	1383	1404	1404	1401	1362
7.5	1402	1403	1408	1458	1388	1323	1267	1304	1310	1328
10.0	1417	1436	1408	1436	1334	1352	1334	1337	1305	1352
12.5	1545	1525	1556	1491	1403	1385	1371	1480	1467	1535
15.0	1661	1679	1631	1535	1436	1487	1527	1606	1641	1599
17.5	1847	1791	1778	1658	1534	1625	1710	1705	1707	1699
20.0	2013	2018	1973	1725	1643	1770	1754	1809	1802	1801
22.5	2321	2205	2165	1920	1825	1897	1880	1879	1850	1904
25.0	2499	2486	2407	2023	2107	2028	1939	1900	1956	1985
27.5	2740	2608	2603	2188	2264	2108	2011	2018	2046	2091
30.0	2892	2784	2744	2339	2370	2255	2097	2077	2066	2126
32.5	3005	2935	2831	2488	2507	2359	2212	2141	2161	2236
35.0	3185	3046	2956	2642	2556	2433	2356	2185	2272	2316
37.5	3308	3208	3065	2716	2590	2485	2363	2296	2274	2412
40.0	3406	3249	3072	2766	2605	2481	2365	2288	2326	2447
42.5	3496	3308	3087	2704	2521	2457	2331	2298	2305	2340
45.0	3700	3425	3143	2659	2416	2369	2271	2231	2283	2176
47.5	3956	3594	3258	2624	2297	2265	2160	2164	2173	2005
50.0	4233	3760	3392	2602	2161	2144	2051	2110	2029	1872
52.5	4562	4003	3551	2588	2012	2012	1945	2027	1868	1744
55.0	4944	4283	3726	2592	1870	1888	1836	1900	1709	1607
57.5	5126	4441	3800	2545	1729	1769	1720	1757	1546	1423
60.0	5117	4424	3625	2447	1584	1639	1611	1609	1367	1300
62.5	4809	4050	3106	2268	1437	1493	1484	1464	1236	1200
65.0	4067	3252	2279	1946	1276	1339	1348	1355	1118	1119
67.5	2869	2205	1476	1498	1104	1178	1214	1236	1017	1040
70.0	1714	1310	950	1089	933	1002	1084	1100	920	958
72.5	977	766	663	793	747	835	944	954	813	834
75.0	681	510	461	576	587	680	797	786	636	608
77.5	455	332	331	429	463	554	615	548	397	387

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PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-18L-40.IES

CANDELA TABULATION - (Cont.)

80.0	259	199	245	325	370	424	392	350	287	300
82.5	173	133	175	244	282	254	255	256	196	218
85.0	102	71	103	164	157	155	166	144	99	142
87.5	40	22	47	72	75	74	64	59	41	57
90.0	6	7	17	23	24	21	16	10	4	2
92.5	4	7	15	21	24	21	16	10	3	3
95.0	4	8	15	20	22	19	15	11	4	4
97.5	5	9	12	17	19	17	14	11	6	5
100.0	5	8	10	13	15	15	13	10	6	6
102.5	6	8	9	10	12	13	11	10	7	6
105.0	6	7	8	9	10	11	10	9	7	6
107.5	6	7	8	9	9	9	9	8	6	6
110.0	7	8	8	9	9	9	9	8	7	6
112.5	7	8	8	9	9	9	9	8	7	6
115.0	7	8	9	9	9	9	9	9	7	7
117.5	8	8	9	9	9	10	10	9	8	7
120.0	8	9	9	9	10	10	10	10	9	7
122.5	9	9	9	10	10	10	11	10	9	8
125.0	9	9	10	10	10	10	11	10	9	8
127.5	9	10	10	10	10	10	10	10	9	8
130.0	10	10	10	10	10	10	10	9	9	8
132.5	10	10	10	10	10	9	9	9	8	7
135.0	9	9	9	9	9	8	7	7	6	6
137.5	7	7	8	7	7	6	5	4	3	2
140.0	5	6	6	6	5	4	3	2	1	1
142.5	5	5	5	5	4	3	3	2	1	0
145.0	5	5	5	5	4	3	2	1	0	0
147.5	5	5	5	4	4	3	2	1	0	0
150.0	4	5	5	4	4	3	2	1	0	0
152.5	4	4	4	4	3	2	2	1	0	0
155.0	4	4	4	4	3	2	1	1	0	0
157.5	4	4	4	4	3	2	1	0	0	0
160.0	4	4	4	4	3	2	1	0	0	0
162.5	4	4	4	3	3	2	1	0	0	0
165.0	4	4	4	3	3	2	1	0	0	0
167.5	4	4	4	3	3	2	1	0	0	0
170.0	4	4	4	3	3	2	1	0	0	0
172.5	4	4	4	3	3	2	1	0	0	0
175.0	4	4	4	3	3	2	1	0	0	0
177.5	4	4	4	3	3	2	1	0	0	0
180.0	2	2	2	2	2	2	2	2	2	2

Vert. Horizontal Angles
Angles

	175	180
0.0	1446	1446
2.5	1420	1422
5.0	1352	1376
7.5	1342	1370
10.0	1390	1421
12.5	1558	1600
15.0	1684	1754
17.5	1776	1835
20.0	1877	1918
22.5	1896	2036
25.0	2012	2115

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-18L-40.IES

CANDELA TABULATION - (Cont.)

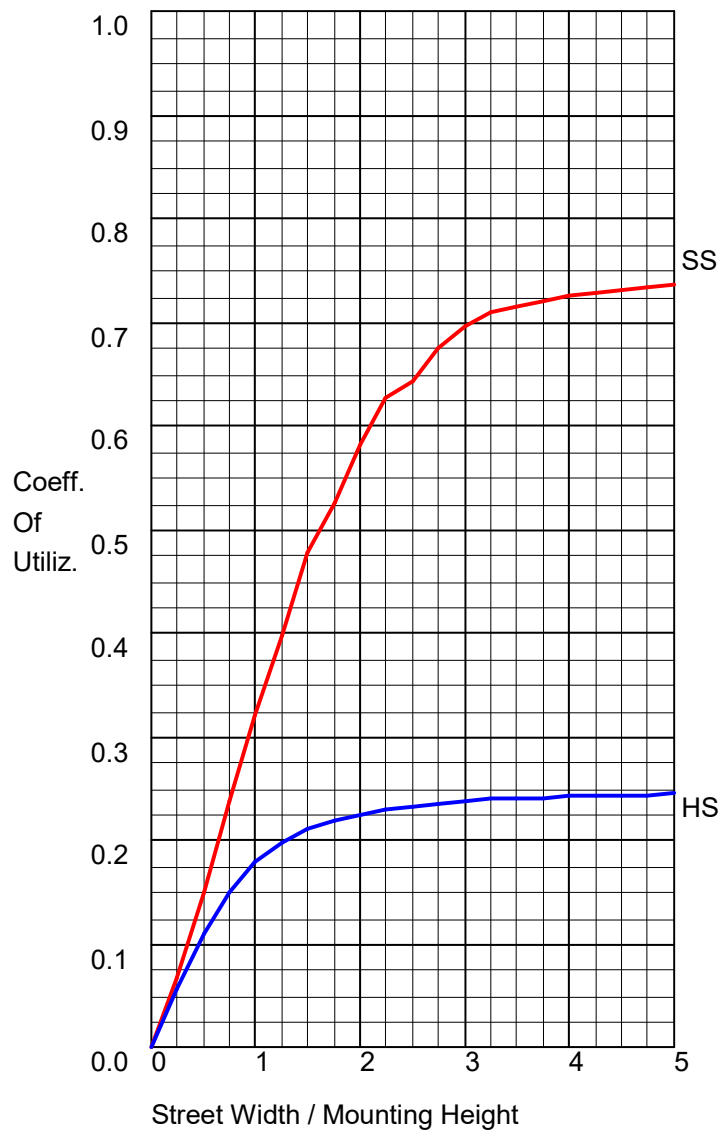
27.5	2083	2254
30.0	2149	2316
32.5	2291	2426
35.0	2331	2494
37.5	2442	2610
40.0	2394	2540
42.5	2221	2348
45.0	2072	2189
47.5	1941	2053
50.0	1819	1905
52.5	1694	1764
55.0	1547	1608
57.5	1391	1438
60.0	1288	1322
62.5	1210	1239
65.0	1153	1179
67.5	1104	1131
70.0	1054	1077
72.5	958	977
75.0	724	743
77.5	561	599
80.0	461	511
82.5	356	394
85.0	239	271
87.5	115	148
90.0	0	0
92.5	0	0
95.0	2	2
97.5	3	3
100.0	4	4
102.5	5	5
105.0	5	5
107.5	5	5
110.0	5	5
112.5	5	5
115.0	5	5
117.5	5	5
120.0	6	6
122.5	6	6
125.0	6	6
127.5	6	6
130.0	6	6
132.5	6	6
135.0	4	4
137.5	1	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

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-18L-40.IES

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	2	2

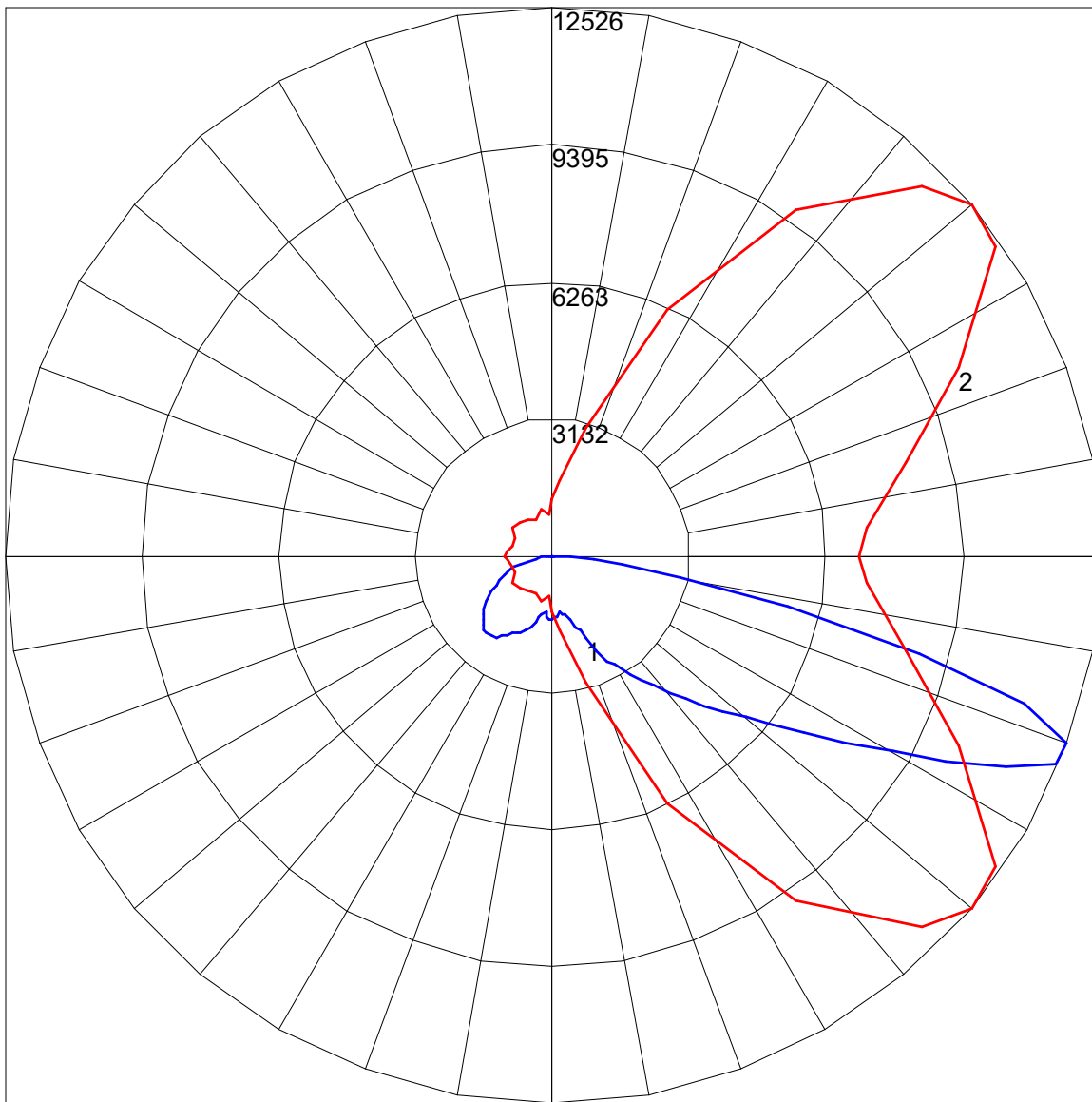
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

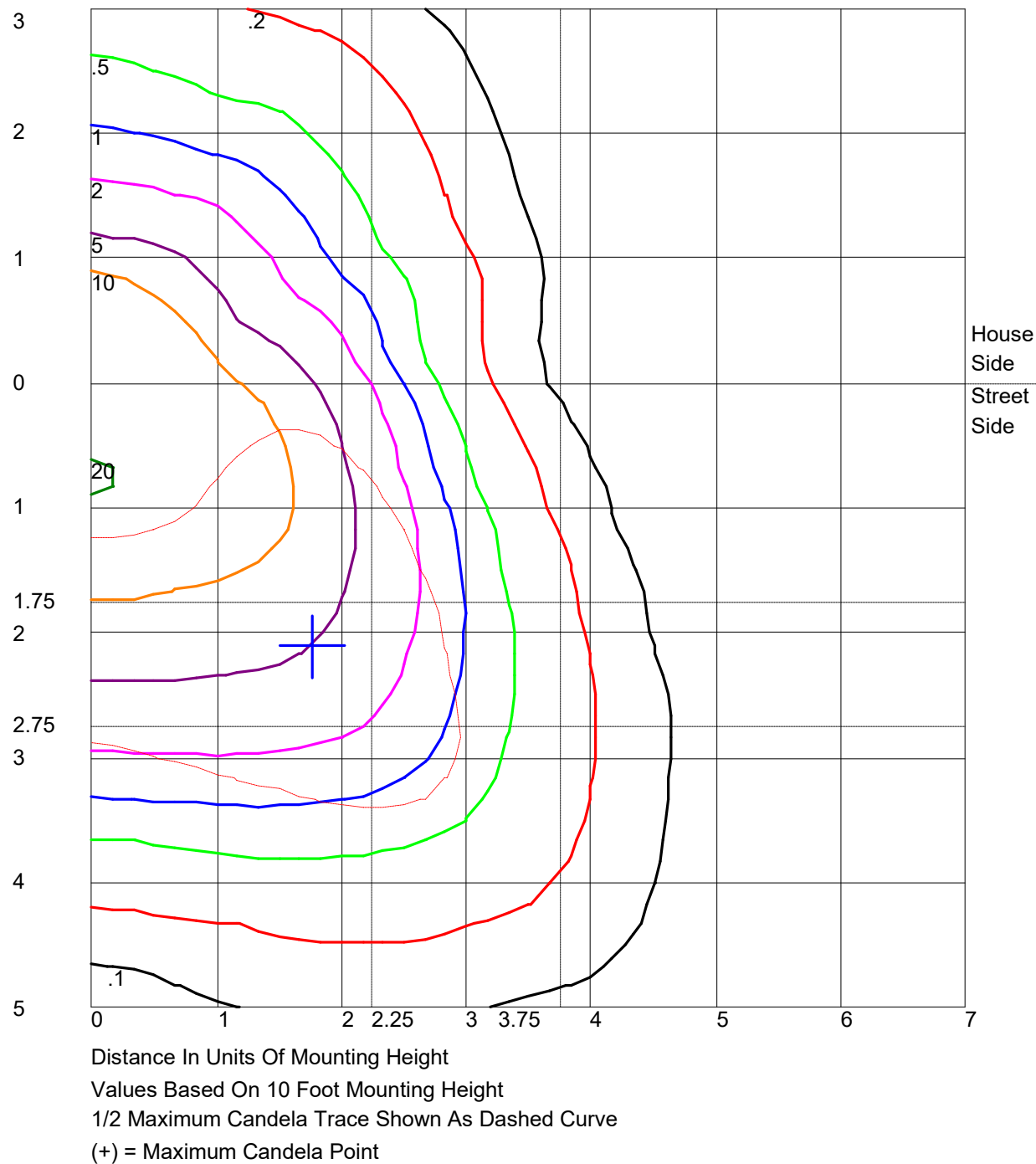
	Lumens	Percent Of Luminaire
Downward Street Side	13740.6	74.9
Downward House Side	4550.6	24.8
Downward Total	18291.2	99.8
Upward Street Side	21.7	0.1
Upward House Side	23.2	0.1
Upward Total	44.9	0.2
Total Flux	18336.1	100.0

POLAR GRAPH

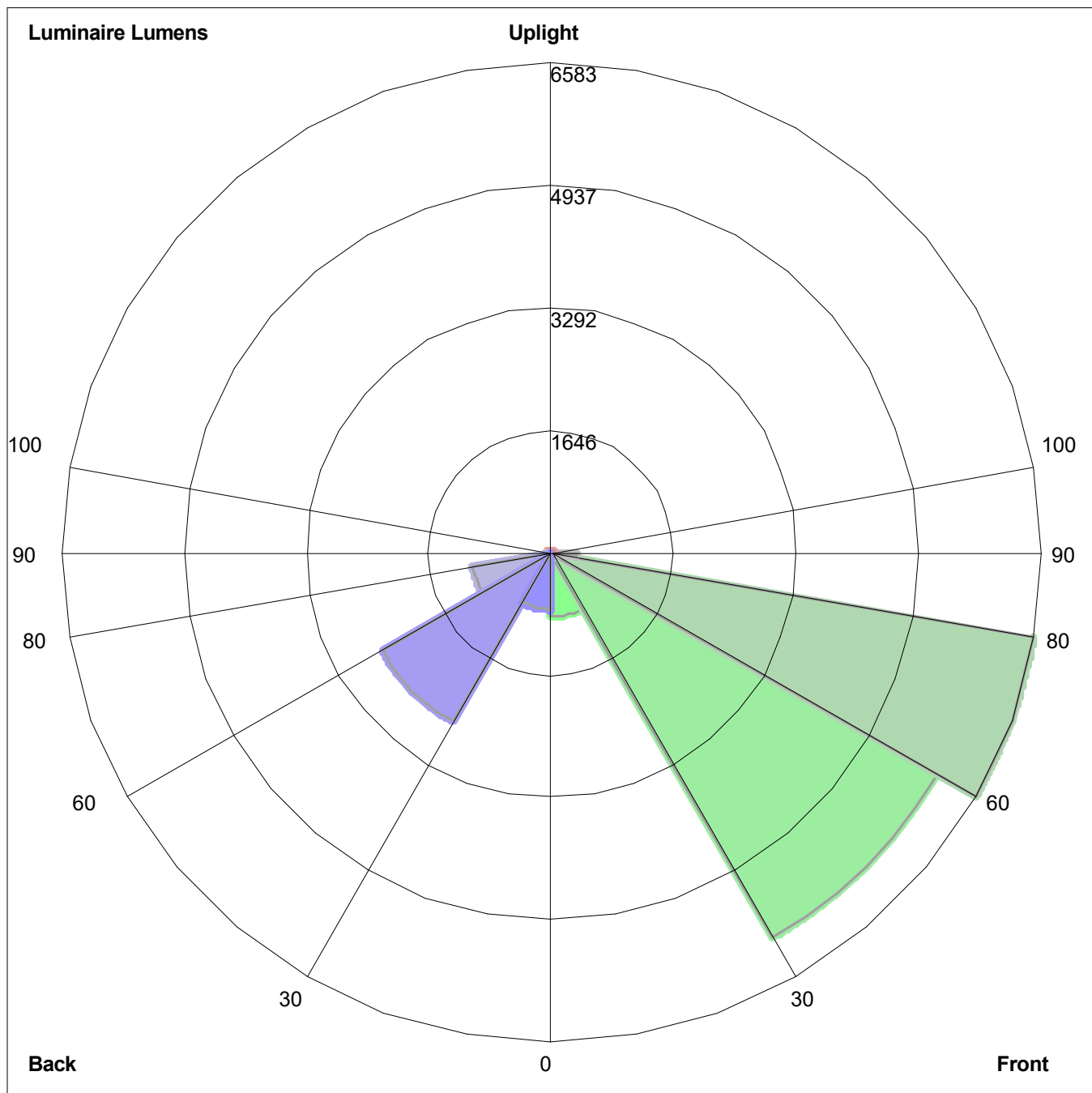


Maximum Candela = 12526 Located At Horizontal Angle = 40, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=855.7, Medium=5969.4, High=6583.1, Very High=332.5
Back: Low=767.2, Medium=2626.6, High=1068.4, Very High=88.3
Uplight: Low=14.0, High=30.9

BUG Rating : B3-U2-G3