



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-18L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11673
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 06/10/20
[TESTDATE] 04/02/20
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-2-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18113
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	148.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14557
Maximum Candela Angle	82.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	14557
Maximum Candela Angle (<90 Degrees Vertical)	82.5H 62.5V
Maximum Candela At 90 Degrees Vertical	21 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	808 (4.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-2-LED-18L-40.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1039.1	N.A.	5.7
FM - Front-Medium (30-60)	7116.4	N.A.	39.3
FH - Front-High (60-80)	3142.0	N.A.	17.3
FVH - Front-Very High (80-90)	82.0	N.A.	0.5
BL - Back-Low (0-30)	794.0	N.A.	4.4
BM - Back-Medium (30-60)	4264.3	N.A.	23.5
BH - Back-High (60-80)	1546.5	N.A.	8.5
BVH - Back-Very High (80-90)	104.1	N.A.	0.6
UL - Uplight-Low (90-100)	6.3	N.A.	0.0
UH - Uplight-High (100-180)	18.4	N.A.	0.1
Total	18113.1	N.A.	100.0
BUG Rating	B3-U2-G3		

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-2-LED-18L-40.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>82.5</u>
0.0	1581	1581	1581	1581	1581	1581	1581	1581	1581	1581
2.5	1612	1610	1586	1579	1587	1599	1591	1575	1543	1542
5.0	1547	1563	1557	1578	1546	1545	1534	1493	1499	1486
7.5	1568	1589	1560	1584	1519	1572	1537	1538	1581	1530
10.0	1621	1612	1615	1594	1595	1636	1659	1626	1635	1610
12.5	1794	1761	1750	1725	1705	1760	1788	1808	1763	1769
15.0	1906	1837	1887	1910	1915	1948	1953	2003	1980	1874
17.5	1988	1948	2003	1992	2107	2153	2152	2201	2207	2128
20.0	2231	2190	2226	2191	2186	2319	2408	2412	2481	2446
22.5	2306	2397	2418	2477	2477	2508	2679	2690	2812	2790
25.0	2633	2673	2653	2688	2799	2787	2926	3002	3076	3167
27.5	3173	3115	3145	3085	3085	3162	3236	3380	3456	3581
30.0	3593	3664	3654	3577	3527	3503	3618	3736	3955	4017
32.5	4591	4433	4276	4062	4052	4004	4042	4139	4435	4468
35.0	5147	5191	4897	4854	4582	4568	4556	4704	4843	5076
37.5	6026	6013	5624	5376	5219	5232	5194	5148	5419	5660
40.0	6294	6289	6217	5999	5887	5927	5775	5781	5811	6196
42.5	6370	6359	6294	6264	6439	6413	6469	6433	6092	6515
45.0	6141	6195	6155	6259	6596	6876	7049	7124	6472	6908
47.5	5683	5733	5749	5981	6469	7052	7734	8042	7051	7548
50.0	4934	4959	5098	5363	6056	6991	8374	9045	7854	8357
52.5	4040	4058	4243	4547	5377	6595	8794	10184	8927	9494
55.0	3150	3172	3322	3674	4455	5868	8879	11259	10068	10867
57.5	2370	2385	2497	2794	3426	4859	8464	12066	11189	12358
60.0	1731	1741	1815	1977	2435	3683	7494	12386	12183	13737
62.5	1302	1309	1318	1408	1707	2506	6198	11964	12846	14557
65.0	1021	1018	1035	1089	1255	1660	4694	10600	12754	14393
67.5	796	815	826	878	1000	1184	3248	8233	11511	12343
70.0	628	640	651	710	817	926	2012	5493	8876	8248
72.5	455	474	479	553	649	738	1239	3336	5178	3746
75.0	279	306	281	371	481	582	802	2050	2500	1416
77.5	239	265	205	205	265	414	562	1291	1290	717
80.0	251	262	191	156	161	244	365	808	728	453
82.5	252	252	163	116	113	158	191	472	435	281
85.0	221	213	130	80	75	99	107	156	209	144
87.5	89	98	68	38	33	38	33	35	45	46
90.0	15	15	12	8	3	2	0	1	4	4
92.5	7	7	6	4	1	0	0	0	1	2
95.0	7	6	5	4	1	0	0	0	0	1
97.5	6	6	5	3	1	0	0	0	0	0
100.0	5	5	4	3	1	0	0	0	0	0
102.5	5	5	4	3	1	0	0	0	0	0
105.0	5	5	4	3	2	1	0	0	0	1
107.5	5	5	4	3	2	1	0	0	0	1
110.0	5	6	5	4	2	1	0	0	0	1
112.5	6	6	6	5	3	1	0	0	0	1
115.0	7	7	6	5	3	2	0	0	1	1
117.5	8	8	7	6	4	2	0	0	1	1
120.0	9	9	8	7	5	3	1	1	2	2
122.5	10	9	9	8	5	3	1	1	2	3
125.0	10	10	9	8	6	4	1	1	3	3
127.5	11	10	10	9	7	5	2	2	3	4
130.0	11	11	10	9	7	5	2	2	4	5

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-2-LED-18L-40.IES

CANDELA TABULATION - (Cont.)

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

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	1581	1581	1581	1581	1581	1581	1581	1581	1581	1581
2.5	1544	1562	1554	1561	1575	1554	1555	1545	1569	1576
5.0	1491	1502	1499	1427	1475	1485	1483	1457	1461	1422
7.5	1506	1519	1529	1507	1493	1426	1329	1343	1356	1353
10.0	1629	1584	1533	1554	1453	1407	1335	1318	1251	1284
12.5	1715	1722	1673	1645	1516	1398	1334	1357	1314	1352
15.0	1903	1877	1829	1700	1548	1467	1404	1414	1386	1356
17.5	2095	2051	1981	1828	1628	1535	1514	1461	1451	1438
20.0	2394	2315	2222	1965	1720	1623	1534	1548	1565	1581
22.5	2726	2617	2522	2192	1885	1750	1656	1645	1712	1816
25.0	3103	2985	2857	2479	2168	1851	1742	1816	1917	2074
27.5	3560	3453	3289	2854	2434	1972	1921	2056	2253	2413
30.0	4009	3954	3700	3151	2662	2189	2179	2329	2536	2700
32.5	4551	4431	4161	3529	2894	2504	2528	2630	2902	3155
35.0	5084	5044	4744	3944	3091	2785	2876	2977	3206	3457
37.5	5691	5620	5347	4386	3401	3102	3140	3306	3399	3709
40.0	6254	6137	5882	4816	3654	3409	3411	3479	3539	3769
42.5	6604	6555	6267	5044	3859	3630	3550	3572	3507	3599
45.0	7041	7023	6625	5200	3993	3682	3528	3458	3304	3290
47.5	7666	7651	7138	5333	4080	3659	3375	3215	3003	2919
50.0	8491	8434	7731	5450	4128	3558	3178	2904	2642	2535
52.5	9535	9437	8351	5511	4124	3411	2915	2582	2302	2192
55.0	10928	10623	8990	5511	4067	3222	2663	2338	2050	1931
57.5	12482	11834	9469	5403	3933	3002	2434	2132	1824	1727
60.0	13726	12378	9441	5077	3670	2722	2214	1928	1600	1510
62.5	14430	12168	8748	4451	3238	2355	1931	1703	1362	1265
65.0	13715	10759	7225	3537	2650	1936	1615	1441	1113	1004
67.5	11271	8066	5164	2497	1933	1494	1277	1154	857	762
70.0	7188	4876	3073	1640	1385	1103	1004	889	675	614
72.5	3222	2252	1606	1100	1016	850	785	696	534	473
75.0	1216	1000	878	803	764	678	632	521	392	325
77.5	628	558	574	617	605	552	478	357	248	233

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-2-LED-18L-40.IES

CANDELA TABULATION - (Cont.)

80.0	411	377	367	475	488	413	303	248	216	212
82.5	248	222	217	365	366	250	210	218	273	269
85.0	125	113	117	228	175	158	167	216	311	272
87.5	42	39	41	64	64	75	89	120	179	167
90.0	4	4	6	10	16	21	21	17	7	10
92.5	2	2	4	8	15	19	19	15	6	8
95.0	1	0	3	7	12	16	15	12	5	7
97.5	1	0	3	6	10	12	11	8	4	6
100.0	0	0	2	5	7	8	7	6	3	6
102.5	0	1	2	4	6	6	5	5	3	5
105.0	0	1	2	4	5	5	4	4	4	5
107.5	0	1	2	4	4	4	4	4	4	5
110.0	1	2	2	4	4	4	4	4	4	6
112.5	1	2	3	4	5	4	4	4	4	6
115.0	1	2	3	4	5	5	4	4	5	7
117.5	2	3	3	4	5	5	5	5	5	7
120.0	2	3	4	5	6	6	6	6	6	8
122.5	3	4	5	6	6	6	6	7	7	9
125.0	4	5	5	6	6	6	7	7	8	10
127.5	5	5	6	6	6	6	6	7	9	10
130.0	5	5	6	6	7	7	7	7	9	11
132.5	5	5	6	7	7	7	7	8	10	12
135.0	3	4	4	5	6	6	6	7	9	11
137.5	1	1	2	3	3	3	4	5	6	8
140.0	0	0	0	0	1	2	2	3	4	5
142.5	0	0	0	0	1	2	2	3	4	5
145.0	0	0	0	0	1	1	2	3	4	4
147.5	0	0	0	0	1	2	2	3	4	4
150.0	0	0	0	0	1	2	3	4	4	5
152.5	0	0	0	0	1	2	2	3	4	4
155.0	0	0	0	0	1	2	3	4	4	4
157.5	0	0	0	0	1	2	3	4	4	4
160.0	0	0	0	0	1	2	2	3	3	3
162.5	0	0	0	0	1	2	2	3	3	3
165.0	0	0	0	0	0	1	2	3	3	3
167.5	0	0	0	0	0	1	2	3	3	3
170.0	0	0	0	0	0	1	2	2	3	3
172.5	0	0	0	0	0	1	1	2	2	3
175.0	0	0	0	0	0	1	1	2	3	3
177.5	0	0	0	0	0	1	1	2	2	3
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	1581	1581
2.5	1581	1571
5.0	1442	1436
7.5	1369	1387
10.0	1296	1313
12.5	1351	1389
15.0	1410	1456
17.5	1517	1532
20.0	1694	1666
22.5	1843	1914
25.0	2146	2179

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-2-LED-18L-40.IES

CANDELA TABULATION - (Cont.)

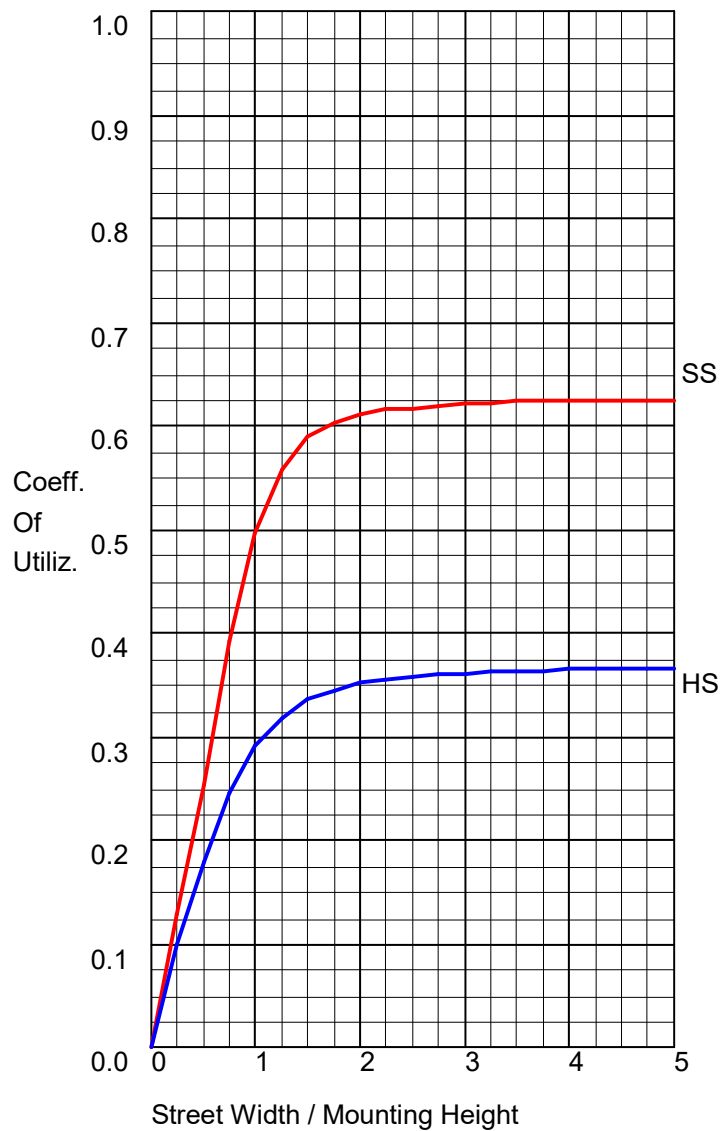
27.5	2486	2526
30.0	2822	2898
32.5	3281	3300
35.0	3596	3595
37.5	3880	3880
40.0	3862	3837
42.5	3645	3639
45.0	3311	3262
47.5	2883	2850
50.0	2482	2460
52.5	2163	2139
55.0	1897	1880
57.5	1692	1665
60.0	1459	1436
62.5	1215	1188
65.0	939	929
67.5	726	714
70.0	614	609
72.5	512	512
75.0	362	367
77.5	276	283
80.0	243	246
82.5	295	297
85.0	285	290
87.5	151	140
90.0	8	8
92.5	7	7
95.0	7	7
97.5	6	6
100.0	6	6
102.5	6	6
105.0	6	6
107.5	6	6
110.0	6	6
112.5	6	6
115.0	7	7
117.5	7	7
120.0	8	8
122.5	9	9
125.0	10	10
127.5	11	11
130.0	11	11
132.5	11	11
135.0	11	11
137.5	8	8
140.0	6	5
142.5	5	5
145.0	5	5
147.5	5	5
150.0	5	5
152.5	5	5
155.0	5	5
157.5	4	4
160.0	3	3
162.5	3	3
165.0	3	3

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-2-LED-18L-40.IES

CANDELA TABULATION - (Cont.)

167.5	3	3
170.0	2	3
172.5	2	2
175.0	3	3
177.5	3	3
180.0	1	1

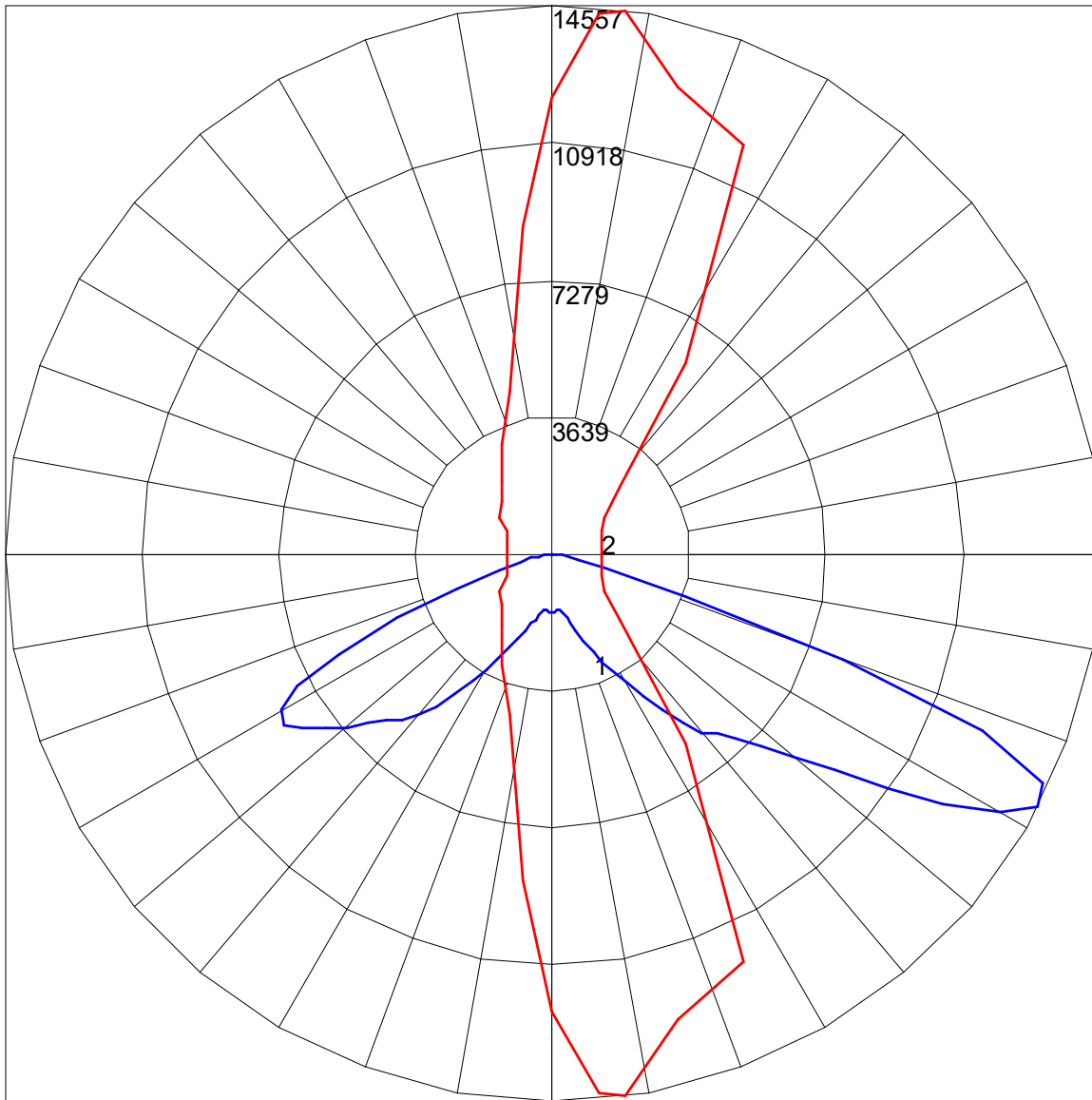
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

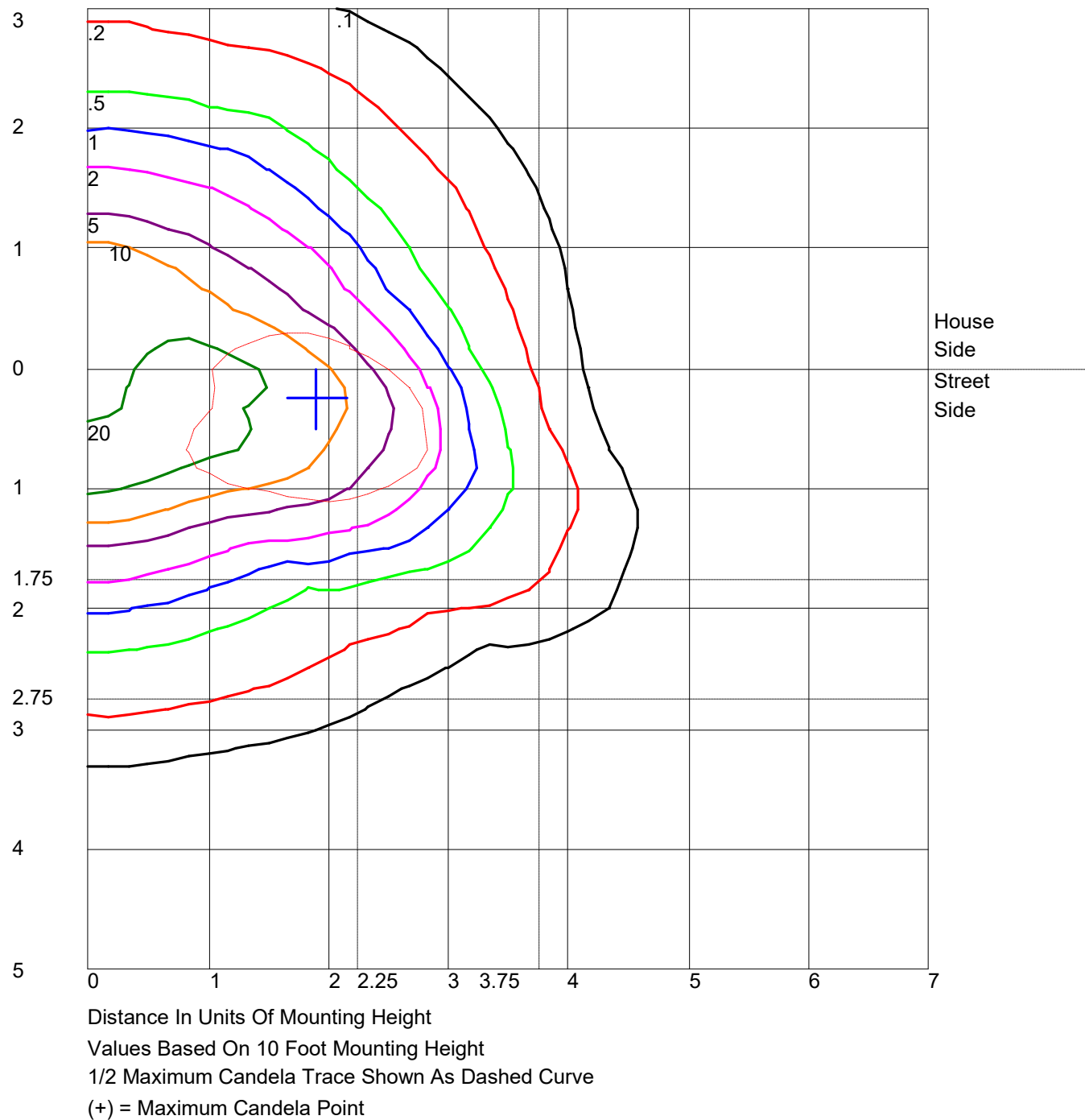
	Lumens	Percent Of Luminaire
Downward Street Side	11379.5	62.8
Downward House Side	6708.9	37.0
Downward Total	18088.4	99.9
Upward Street Side	7.6	0.0
Upward House Side	17.1	0.1
Upward Total	24.7	0.1
Total Flux	18113.1	100.0

POLAR GRAPH

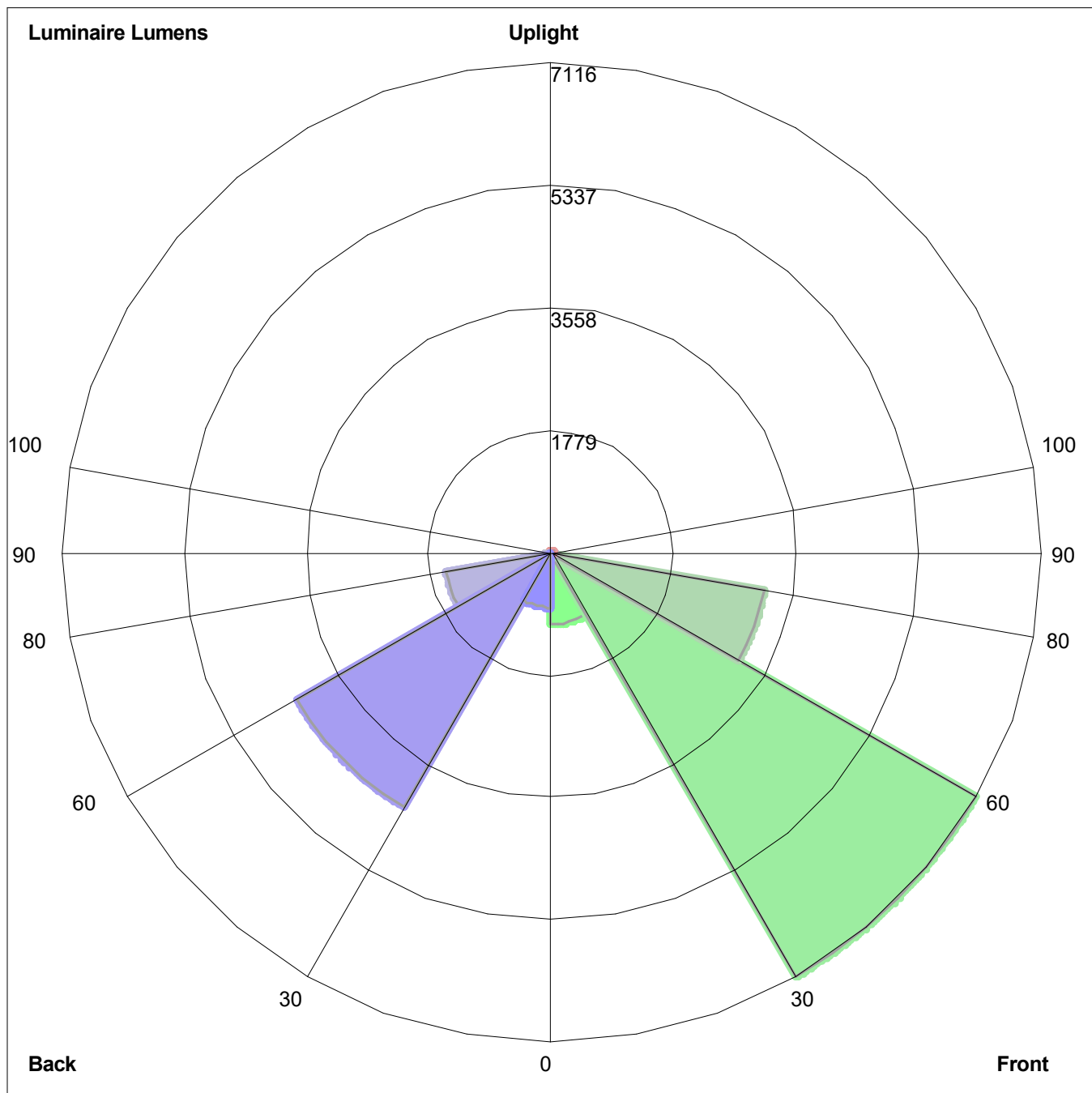


Maximum Candela = 14557 Located At Horizontal Angle = 82.5, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (82.5 - 262.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1039.1, Medium=7116.4, High= 3142.0, Very High=82.0
Back: Low=794.0, Medium=4264.3, High=1546.5, Very High=104.1
Uplight: Low=6.3, High=18.4

BUG Rating : B3-U2-G3