



IES ROAD REPORT
PHOTOMETRIC FILENAME : XENM3-SA-FT-LED-SS-NW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4783
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]11/25/13
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]XENM3-SA-FT-LED-SS-NW
[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE]LUMENS]5898
[_SEARCH_SOURCE]TYPE] LED
[_SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5898
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	70
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3917
Maximum Candela Angle	25H 57.5V
Maximum Candela (<90 Degrees Vertical)	3917
Maximum Candela Angle (<90 Degrees Vertical)	25H 57.5V
Maximum Candela At 90 Degrees Vertical	3 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	866 (14.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	649.4	N.A.	11.0
FM - Front-Medium (30-60)	2753.8	N.A.	46.7
FH - Front-High (60-80)	1801.3	N.A.	30.5
FVH - Front-Very High (80-90)	47.3	N.A.	0.8
BL - Back-Low (0-30)	179.6	N.A.	3.0
BM - Back-Medium (30-60)	332.9	N.A.	5.6
BH - Back-High (60-80)	114.4	N.A.	1.9
BVH - Back-Very High (80-90)	5.5	N.A.	0.1
UL - Uplight-Low (90-100)	2.2	N.A.	0.0
UH - Uplight-High (100-180)	11.5	N.A.	0.2
Total	5897.9	N.A.	100.0
BUG Rating	B1-U2-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>22.5</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>
0.0	550	550	550	550	550	550	550	550	550	550
2.5	652	642	637	634	625	617	605	587	568	552
5.0	906	888	870	853	830	796	750	691	637	594
7.5	1245	1228	1202	1173	1158	1089	975	851	739	649
10.0	1511	1493	1459	1422	1417	1334	1225	1065	884	726
12.5	1733	1723	1711	1672	1665	1569	1431	1301	1085	848
15.0	1814	1807	1803	1788	1784	1754	1671	1478	1289	989
17.5	1835	1829	1833	1834	1831	1831	1805	1664	1435	1127
20.0	1743	1738	1764	1817	1827	1860	1866	1825	1619	1294
22.5	1691	1687	1702	1720	1723	1816	1938	1979	1851	1454
25.0	1672	1669	1685	1702	1705	1752	1990	2123	2046	1572
27.5	1689	1681	1679	1683	1682	1792	1993	2253	2202	1679
30.0	1804	1790	1754	1719	1704	1833	2046	2283	2276	1797
32.5	1929	1919	1896	1854	1831	1928	2081	2166	2310	1976
35.0	2077	2067	2012	1981	1989	2128	2061	2075	2294	2031
37.5	2256	2240	2187	2182	2212	2329	2116	2004	2181	2062
40.0	2461	2442	2382	2429	2511	2512	2250	1957	2065	2077
42.5	2719	2705	2648	2763	2862	2722	2357	1973	1985	2032
45.0	2811	2802	2866	3167	3262	3009	2515	2071	1892	1975
47.5	2856	2850	2927	3345	3456	3332	2719	2173	1786	1911
50.0	2942	2931	3098	3552	3574	3505	2997	2294	1743	1807
52.5	2988	2961	3185	3667	3680	3533	3278	2428	1766	1686
55.0	3132	3131	3439	3721	3676	3579	3291	2618	1839	1585
57.5	2814	2838	3464	3914	3917	3595	3305	2835	1934	1528
60.0	2847	2836	3329	3552	3584	3767	3386	2894	2087	1500
62.5	2863	2852	3404	3565	3558	3450	3472	2981	2270	1410
65.0	2518	2545	3165	3464	3500	3432	3435	3074	2207	1233
67.5	1800	1780	2159	2611	2861	3477	3326	2755	2093	1193
70.0	1293	1330	1631	1899	2044	2857	3052	2403	2070	1158
72.5	791	815	988	1237	1451	2075	2230	2149	1898	1176
75.0	443	461	577	810	966	1224	1438	1664	1621	1147
77.5	123	139	211	391	434	658	696	957	1433	1108
80.0	28	28	58	91	98	166	306	415	866	858
82.5	9	9	17	20	24	33	52	131	243	495
85.0	3	3	5	6	6	8	10	14	38	149
87.5	0	0	1	2	2	2	2	3	3	8
90.0	0	0	1	2	2	2	2	3	3	2
92.5	0	0	1	1	2	2	3	3	3	3
95.0	0	0	1	1	2	2	2	3	3	3
97.5	0	0	1	1	1	2	2	3	3	3
100.0	0	0	1	1	1	2	2	2	3	3
102.5	0	0	1	1	1	2	2	2	3	3
105.0	0	0	1	1	1	2	2	2	3	3
107.5	0	0	1	1	1	2	2	2	3	3
110.0	0	0	1	1	1	2	2	2	3	3
112.5	0	0	1	1	1	2	2	2	3	3
115.0	0	0	1	1	1	2	2	2	3	3
117.5	0	0	1	1	1	2	2	2	3	3
120.0	0	0	1	1	1	2	2	2	3	3
122.5	0	0	1	1	1	2	2	2	3	3
125.0	0	0	1	1	1	2	2	2	3	3
127.5	0	0	1	1	1	2	2	2	3	3
130.0	0	0	1	1	1	2	2	2	3	3

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CANDELA TABULATION - (Cont.)

132.5	0	0	1	1	1	2	2	2	3	3
135.0	0	0	1	1	1	2	2	2	3	3
137.5	0	0	1	1	1	2	2	2	3	3
140.0	0	0	1	1	1	2	2	2	3	3
142.5	0	0	1	1	1	1	2	2	2	3
145.0	0	0	1	1	1	2	2	2	3	3
147.5	0	0	1	1	1	2	2	2	3	3
150.0	0	0	1	1	1	2	2	2	3	3
152.5	0	0	1	1	1	2	2	2	3	3
155.0	0	0	1	1	1	2	2	2	3	3
157.5	0	0	1	1	1	2	2	2	3	3
160.0	0	0	1	1	1	2	2	2	2	3
162.5	0	1	1	1	1	2	2	2	2	3
165.0	0	0	1	1	1	2	2	2	2	2
167.5	0	0	1	1	1	2	2	2	2	2
170.0	0	0	1	1	1	2	2	2	2	2
172.5	1	1	1	1	2	2	2	2	2	2
175.0	0	0	1	1	1	2	2	2	2	2
177.5	0	1	1	1	1	2	2	2	2	2
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	550	550	550	550	550	550	550	550	550	550
2.5	541	534	527	519	512	510	508	507	505	504
5.0	555	536	520	496	480	471	467	466	463	460
7.5	575	546	520	485	468	456	439	426	415	409
10.0	614	574	535	488	464	431	409	397	386	376
12.5	683	629	578	520	465	420	402	390	369	352
15.0	761	689	635	564	485	448	397	360	338	326
17.5	814	726	665	588	558	487	372	336	315	301
20.0	877	764	688	596	606	463	380	320	290	268
22.5	929	785	699	608	604	464	397	309	259	235
25.0	964	792	701	655	549	465	404	306	233	211
27.5	987	790	693	687	553	468	403	278	211	189
30.0	1041	801	697	660	578	476	392	252	190	173
32.5	1107	815	700	623	602	494	318	228	176	161
35.0	1115	782	661	583	599	520	309	218	167	152
37.5	1204	803	650	528	557	481	308	219	161	140
40.0	1300	839	667	483	473	462	296	233	151	119
42.5	1344	880	695	476	391	440	276	224	132	81
45.0	1350	897	716	480	345	425	242	204	109	59
47.5	1347	888	719	471	314	379	204	150	117	64
50.0	1342	882	713	451	279	317	159	123	129	76
52.5	1327	877	708	438	244	245	107	114	155	85
55.0	1311	867	713	414	221	187	84	111	155	91
57.5	1269	816	691	388	205	106	82	109	142	106
60.0	1240	745	630	347	186	85	84	108	131	123
62.5	1135	762	596	304	151	91	78	102	126	136
65.0	1027	750	571	268	93	99	71	95	123	138
67.5	885	643	494	236	81	89	56	70	105	49
70.0	767	582	404	194	95	70	43	42	21	13
72.5	650	490	371	131	94	53	35	32	18	8
75.0	557	390	283	81	78	40	29	30	16	4
77.5	466	300	201	77	59	28	22	16	14	2

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CANDELA TABULATION - (Cont.)

80.0	356	173	107	73	35	18	13	6	3	1
82.5	232	99	60	43	19	10	8	2	1	0
85.0	119	42	17	16	7	4	3	1	1	0
87.5	19	7	3	3	3	2	2	1	0	0
90.0	2	2	2	2	2	2	2	1	0	0
92.5	3	2	3	3	3	3	2	2	1	0
95.0	3	3	3	3	3	3	3	2	1	0
97.5	3	3	3	3	3	3	3	2	1	1
100.0	3	3	3	3	4	4	3	2	1	1
102.5	3	3	3	3	4	4	3	2	2	1
105.0	3	3	3	3	4	4	3	2	2	1
107.5	3	3	3	3	4	4	3	3	2	1
110.0	3	3	3	3	4	4	3	3	2	1
112.5	3	3	3	4	4	4	3	3	2	1
115.0	3	3	3	3	4	4	3	3	2	1
117.5	3	3	3	4	4	4	4	3	2	2
120.0	3	3	3	4	4	4	4	3	2	1
122.5	3	3	3	4	4	4	4	3	2	2
125.0	3	3	3	4	4	4	4	3	2	2
127.5	3	3	3	4	4	4	4	3	2	2
130.0	3	3	3	3	4	4	4	3	2	2
132.5	3	3	3	4	4	4	4	3	2	2
135.0	3	3	3	4	4	4	4	3	2	2
137.5	3	3	3	4	4	4	3	3	2	2
140.0	3	3	3	3	4	3	3	3	2	1
142.5	3	3	3	3	3	3	3	2	2	1
145.0	3	3	3	3	3	3	3	2	2	1
147.5	3	3	3	3	3	3	3	2	2	1
150.0	3	3	3	3	3	3	3	2	2	1
152.5	3	3	3	3	3	3	3	2	1	1
155.0	3	3	3	3	3	3	3	2	2	1
157.5	3	3	3	3	3	3	3	2	1	1
160.0	3	3	3	3	3	3	2	2	1	1
162.5	3	3	3	3	3	3	2	2	1	1
165.0	3	3	2	3	3	2	2	1	1	0
167.5	2	2	2	2	2	2	2	1	1	0
170.0	2	2	2	2	2	2	2	1	1	0
172.5	2	2	2	2	2	2	2	1	1	0
175.0	2	2	2	2	2	2	2	1	0	0
177.5	2	2	2	2	2	2	1	1	0	0
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	550	550
2.5	506	505
5.0	460	460
7.5	408	407
10.0	371	373
12.5	343	346
15.0	319	321
17.5	291	293
20.0	255	257
22.5	226	227
25.0	201	200

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CANDELA TABULATION - (Cont.)

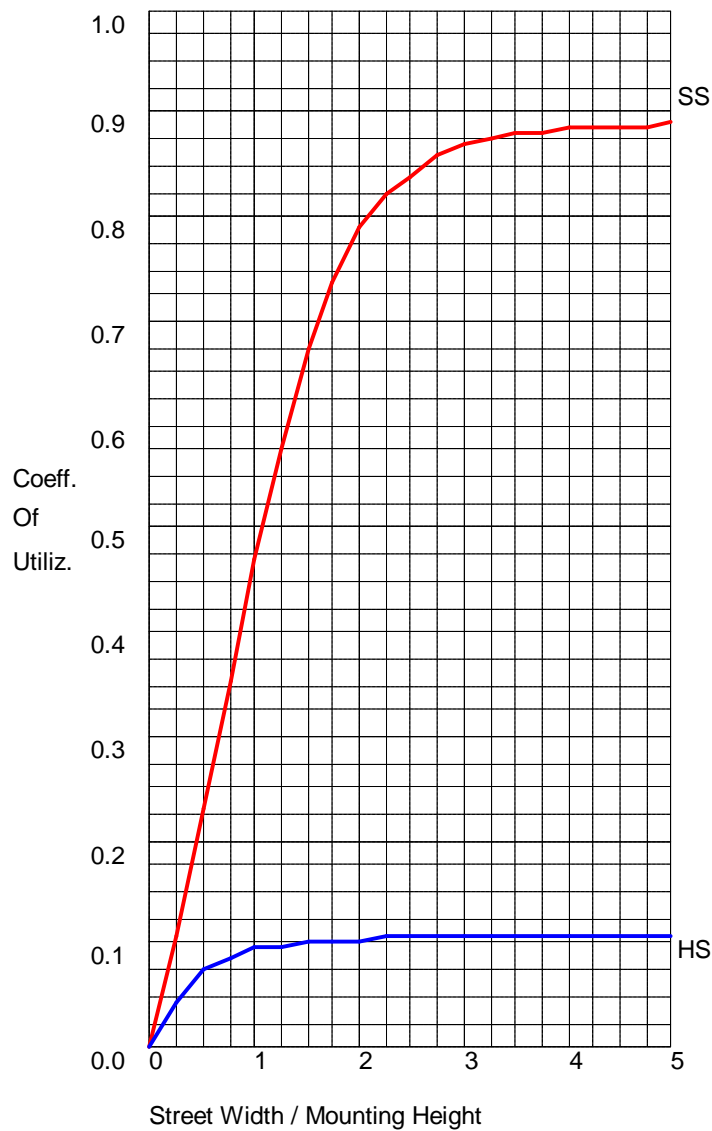
27.5	181	180
30.0	164	163
32.5	155	153
35.0	145	142
37.5	131	129
40.0	98	97
42.5	60	56
45.0	50	45
47.5	53	47
50.0	52	48
52.5	51	48
55.0	45	41
57.5	37	34
60.0	31	28
62.5	27	23
65.0	22	18
67.5	17	13
70.0	11	8
72.5	5	4
75.0	2	1
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	0	0
110.0	0	0
112.5	1	1
115.0	1	1
117.5	1	1
120.0	1	1
122.5	1	1
125.0	1	1
127.5	1	1
130.0	1	1
132.5	1	1
135.0	2	2
137.5	1	1
140.0	1	1
142.5	1	1
145.0	1	1
147.5	1	1
150.0	1	1
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	1	1

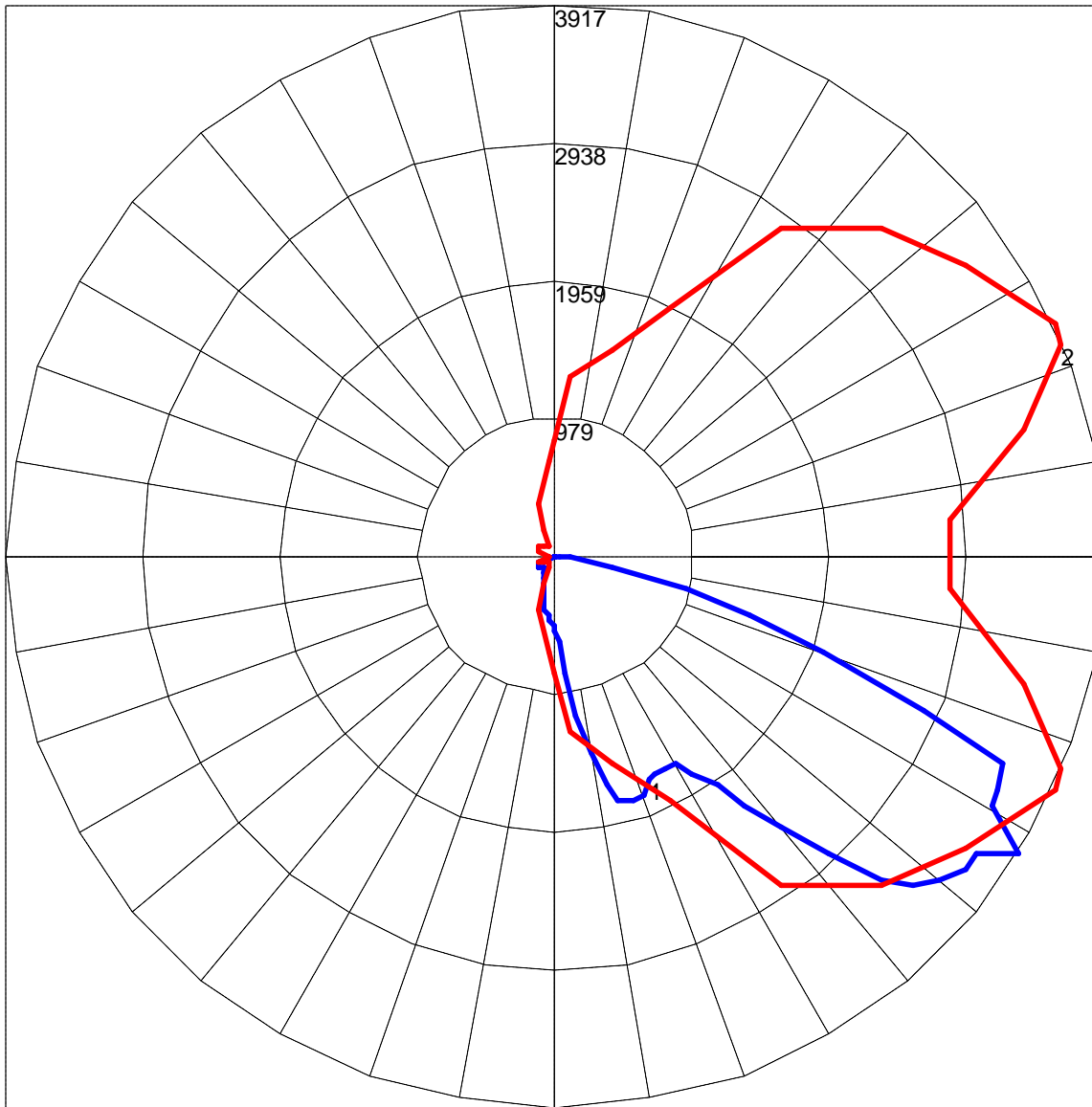
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

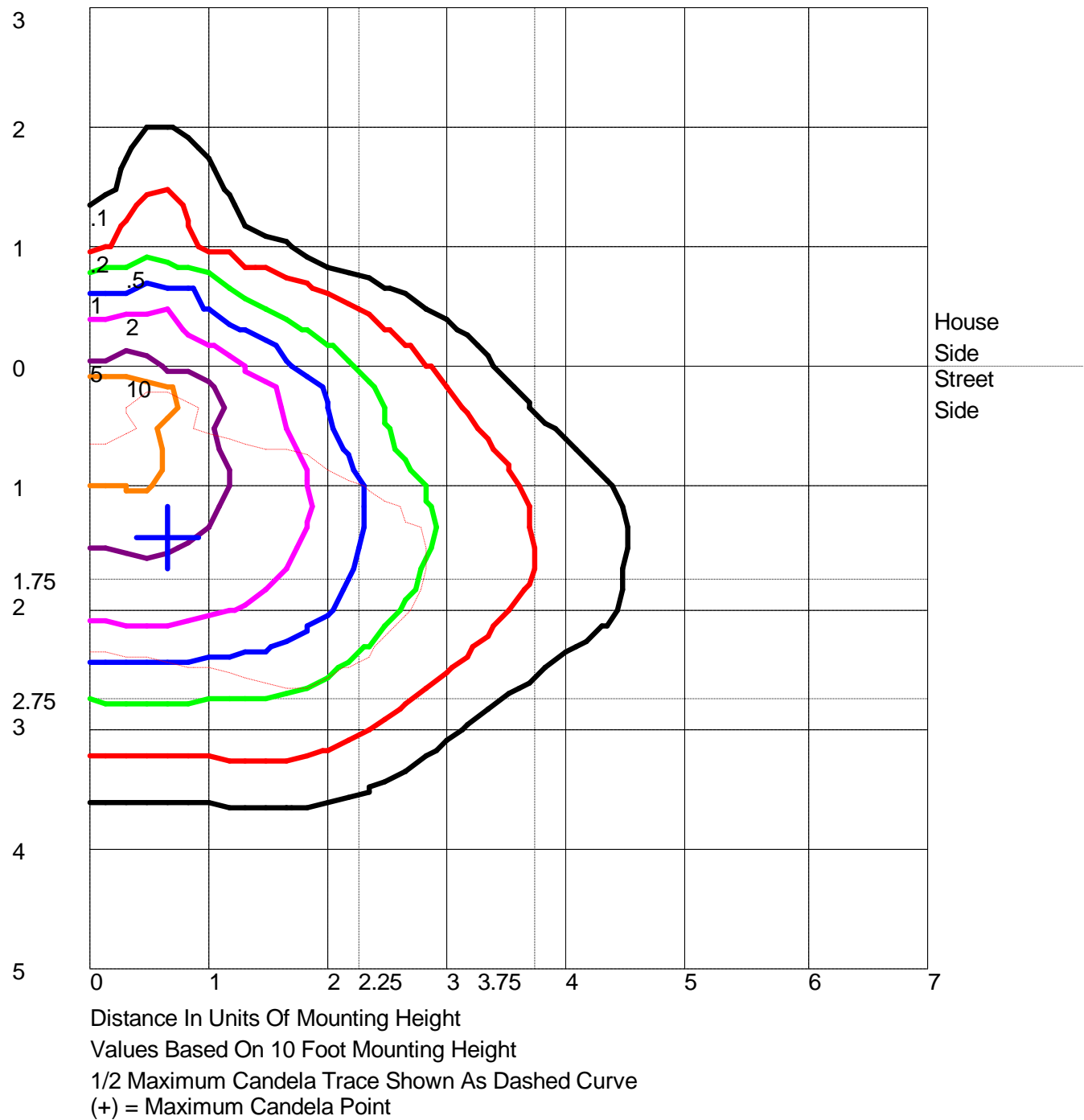
	Lumens	Percent Of Luminaire
Downward Street Side	5251.7	89.0
Downward House Side	632.3	10.7
Downward Total	5884.0	99.8
Upward Street Side	6.0	0.1
Upward House Side	7.8	0.1
Upward Total	13.8	0.2
Total Flux	5897.8	100.0

POLAR GRAPH

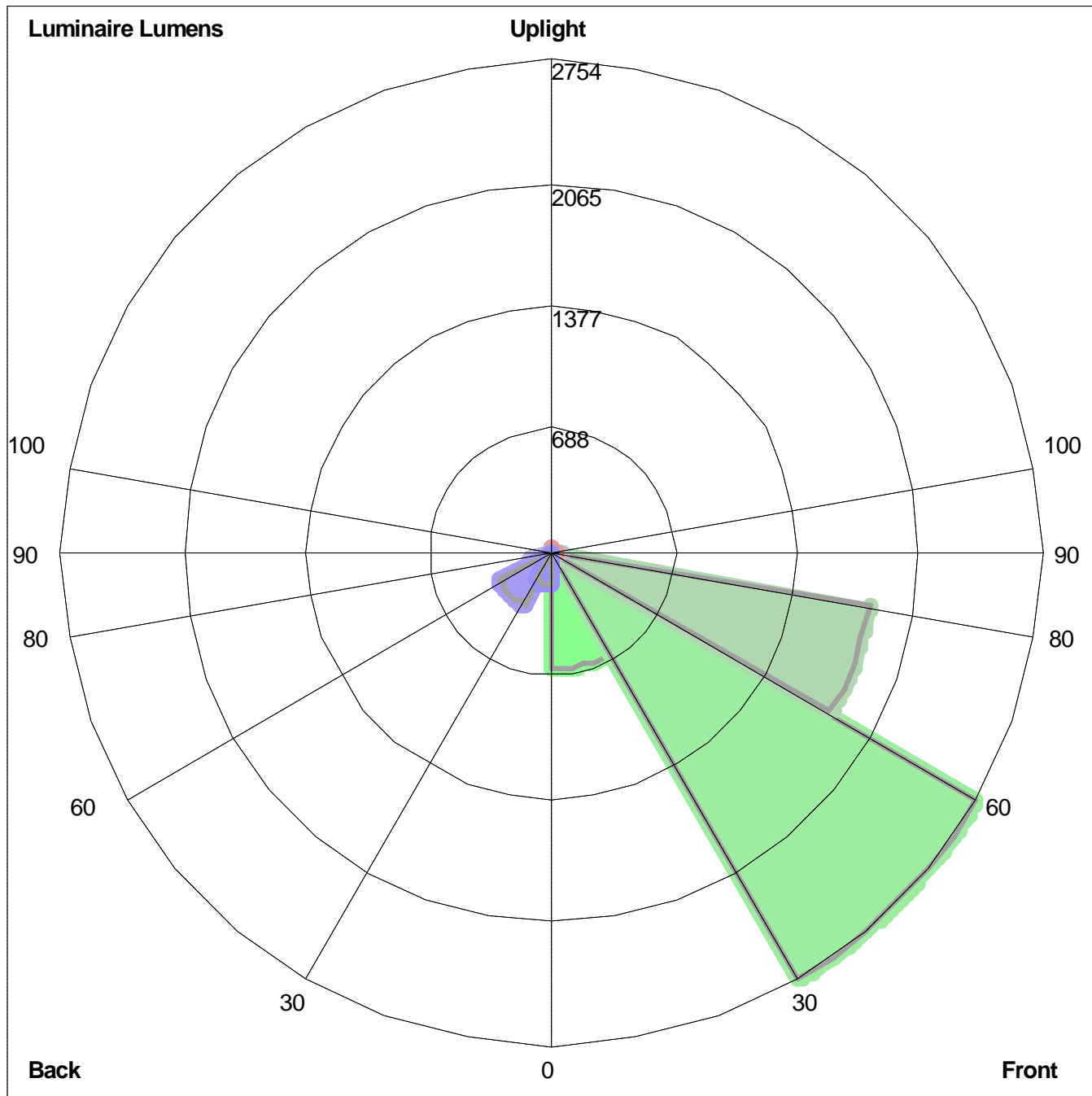


Maximum Candela = 3917 Located At Horizontal Angle = 25, Vertical Angle = 57.5
1 - Vertical Plane Through Horizontal Angles (25 - 205) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=649.4, Medium=2753.8, High=1801.3, Very High=47.3
Back: Low=179.6, Medium=332.9, High=114.4, Very High=5.5
Uplight: Low=2.2, High=11.5

BUG Rating : B1-U2-G2