



## IES ROAD REPORT

PHOTOMETRIC FILENAME : XENM3-PT-FT-LED-SS-CW.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-4700  
[TESTLAB]LSI INDUSTRIES, INC  
[ISS DATE]11/13/13  
[TESTDATE]11/21/13  
[MANUFAC]LSI INDUSTRIES, INC  
[LUMCAT]XENM3-PT-FT-LED-SS-CW  
[\_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[\_ABSOLUTE]LUMENS]5572  
[\_SEARCH\_SOURCE]TYPE] LED  
[\_SEARCH\_APPLICATION] Outdoor

### CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5572
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	70
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3592
Maximum Candela Angle	35H 60V
Maximum Candela (<90 Degrees Vertical)	3592
Maximum Candela Angle (<90 Degrees Vertical)	35H 60V
Maximum Candela At 90 Degrees Vertical	6 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	987 (17.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	461.2	N.A.	8.3
FM - Front-Medium (30-60)	2626.6	N.A.	47.1
FH - Front-High (60-80)	1891.9	N.A.	34.0
FVH - Front-Very High (80-90)	60.4	N.A.	1.1
BL - Back-Low (0-30)	106.4	N.A.	1.9
BM - Back-Medium (30-60)	296.7	N.A.	5.3
BH - Back-High (60-80)	107.4	N.A.	1.9
BVH - Back-Very High (80-90)	6.5	N.A.	0.1
UL - Uplight-Low (90-100)	3.0	N.A.	0.1
UH - Uplight-High (100-180)	11.9	N.A.	0.2
Total	5572.0	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>25.0</u>	<u>32.5</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	236	236	236	236	236	236	236	236	236	236
2.5	274	274	276	268	262	261	250	240	231	227
5.0	329	328	340	308	288	287	276	261	243	233
7.5	504	494	422	399	361	364	343	305	279	243
10.0	707	698	595	559	509	504	455	374	352	310
12.5	910	893	795	763	711	677	648	627	512	395
15.0	1105	1079	956	946	934	941	971	833	674	511
17.5	1208	1141	1112	1076	1151	1190	1170	1050	886	641
20.0	1323	1232	1197	1204	1319	1350	1341	1279	1118	858
22.5	1268	1183	1209	1320	1424	1423	1491	1542	1476	1059
25.0	1358	1233	1255	1334	1421	1474	1642	1856	1737	1283
27.5	1411	1268	1317	1420	1453	1495	1821	2065	2079	1529
30.0	1551	1390	1380	1469	1494	1559	1876	2281	2306	1787
32.5	1747	1549	1572	1593	1606	1675	1973	2245	2461	2070
35.0	1901	1668	1725	1734	1852	1899	2000	2142	2481	2221
37.5	2079	1819	1893	1866	2076	2100	2050	2075	2407	2279
40.0	2309	2021	2071	2118	2261	2269	2170	2023	2267	2313
42.5	2625	2288	2341	2446	2504	2459	2264	1990	2127	2264
45.0	2774	2396	2596	2828	2834	2732	2391	2044	2003	2174
47.5	2830	2434	2613	3091	3235	3126	2589	2144	1864	2083
50.0	2956	2537	2798	3209	3334	3356	2884	2223	1775	1991
52.5	2972	2539	2879	3375	3412	3383	3258	2343	1756	1860
55.0	3102	2660	3012	3328	3455	3476	3270	2530	1824	1718
57.5	2958	2553	3144	3506	3401	3445	3286	2806	1894	1616
60.0	2857	2451	2962	3431	3589	3592	3381	2893	2037	1570
62.5	2952	2535	3084	3292	3315	3431	3382	2950	2212	1455
65.0	2778	2424	3055	3376	3353	3355	3472	3038	2260	1253
67.5	2176	1911	2317	3049	3455	3513	3337	2745	2112	1193
70.0	1743	1551	1854	2393	2924	3151	3191	2446	2110	1128
72.5	1144	1025	1235	1822	2443	2556	2527	2207	1853	1138
75.0	747	676	798	1258	1570	1630	1789	1870	1617	1151
77.5	307	305	425	748	950	988	919	1207	1443	1084
80.0	68	67	110	192	304	325	474	538	987	853
82.5	20	19	28	47	53	61	90	206	373	544
85.0	5	5	7	10	13	14	18	27	69	192
87.5	1	1	3	3	4	4	4	4	5	14
90.0	0	1	2	2	3	3	3	3	3	2
92.5	0	1	1	2	2	3	3	3	3	2
95.0	0	1	1	2	2	2	3	3	3	3
97.5	0	1	1	2	2	2	2	3	3	3
100.0	0	1	1	2	2	2	2	3	3	3
102.5	1	1	1	2	2	2	2	2	3	3
105.0	1	1	1	2	2	2	2	2	2	3
107.5	1	1	1	2	2	2	2	2	2	3
110.0	1	1	1	2	2	2	2	2	3	3
112.5	1	1	1	2	2	2	2	3	3	3
115.0	1	1	2	2	2	2	2	3	3	3
117.5	1	1	2	2	2	2	3	3	3	3
120.0	1	1	2	2	2	2	3	3	3	3
122.5	1	1	2	2	2	3	3	3	3	3
125.0	2	1	2	3	3	3	3	3	3	3
127.5	2	2	3	3	3	3	3	3	3	3
130.0	2	2	3	3	3	3	3	4	4	4

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**CANDELA TABULATION - (Cont.)**

132.5	2	2	3	3	3	3	3	4	4	4
135.0	2	2	3	3	3	3	3	3	3	3
137.5	0	1	1	2	2	2	2	2	3	3
140.0	0	0	1	1	1	1	2	2	2	2
142.5	0	0	1	1	1	1	2	2	2	2
145.0	0	0	1	1	1	1	2	2	2	2
147.5	0	0	1	1	1	1	2	2	2	2
150.0	0	0	1	1	1	1	2	2	2	2
152.5	0	0	1	1	1	2	2	2	2	2
155.0	0	0	1	1	1	2	2	2	2	2
157.5	0	0	1	1	1	1	2	2	2	2
160.0	0	0	1	1	1	1	2	2	2	2
162.5	0	0	1	1	1	2	2	2	2	2
165.0	0	0	1	1	1	1	2	2	2	2
167.5	0	0	1	1	1	1	2	2	2	2
170.0	0	0	1	1	1	2	2	2	2	2
172.5	0	0	1	1	1	2	2	2	2	2
175.0	0	0	1	1	1	1	1	2	1	2
177.5	0	0	1	1	1	1	1	1	1	1
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	236	236	236	236	236	236	236	236	236	236
2.5	223	223	218	214	210	209	205	212	216	215
5.0	226	222	212	193	177	168	164	161	159	162
7.5	227	223	211	192	177	166	163	153	142	138
10.0	278	271	245	210	191	172	160	150	146	140
12.5	319	302	271	234	216	193	179	174	161	145
15.0	415	381	334	278	240	222	205	170	156	152
17.5	472	431	387	313	311	262	194	182	162	149
20.0	575	510	439	366	358	266	221	182	160	150
22.5	653	543	479	404	388	292	241	184	154	138
25.0	752	601	534	478	364	321	260	196	146	138
27.5	836	651	560	537	390	336	297	193	144	138
30.0	916	694	596	557	439	367	289	179	142	139
32.5	1019	744	625	551	506	393	261	181	142	145
35.0	1075	722	601	517	535	432	267	194	151	148
37.5	1173	748	582	459	494	407	266	206	149	144
40.0	1289	789	592	424	412	393	262	202	141	122
42.5	1356	829	621	411	335	387	243	205	119	88
45.0	1413	854	641	411	301	367	216	186	101	79
47.5	1433	859	649	405	263	331	182	147	108	83
50.0	1454	851	655	391	233	262	144	122	124	80
52.5	1458	837	645	371	211	209	102	111	135	77
55.0	1467	844	661	353	198	144	87	97	129	81
57.5	1414	799	648	328	181	94	84	89	119	93
60.0	1381	717	607	298	166	91	84	81	113	108
62.5	1307	714	559	271	128	91	77	81	111	122
65.0	1163	728	541	236	88	91	65	71	111	121
67.5	1007	661	471	211	88	82	52	61	88	37
70.0	883	560	387	170	95	66	41	36	25	19
72.5	727	499	335	116	89	49	34	30	22	15
75.0	611	373	265	83	68	39	31	25	22	13
77.5	511	287	173	78	49	27	23	16	19	11

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**CANDELA TABULATION - (Cont.)**

80.0	371	165	103	63	31	16	13	7	9	10
82.5	235	84	56	39	15	8	8	5	8	9
85.0	119	36	18	15	6	4	4	2	6	7
87.5	23	7	4	4	3	3	3	2	5	7
90.0	2	2	2	2	3	3	3	1	4	6
92.5	2	2	2	3	3	3	3	1	4	6
95.0	2	2	3	3	3	3	3	2	4	6
97.5	2	2	3	3	3	3	3	2	3	4
100.0	2	3	3	3	3	3	3	2	2	3
102.5	3	3	3	3	3	4	3	2	2	2
105.0	3	3	3	3	3	3	3	2	2	2
107.5	3	3	3	3	3	3	3	2	2	1
110.0	3	3	3	3	3	4	3	2	2	1
112.5	3	3	3	3	3	3	3	3	2	2
115.0	3	3	3	3	4	4	3	3	2	2
117.5	3	3	3	3	4	4	3	3	2	2
120.0	3	3	3	4	4	4	4	3	2	2
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	4	4	4	4	4	3	2	2
130.0	3	4	4	4	4	4	4	3	2	2
132.5	4	3	4	4	4	4	3	3	2	2
135.0	3	3	3	4	4	4	3	3	2	2
137.5	3	3	3	3	3	3	3	2	2	1
140.0	2	2	3	3	3	3	3	2	1	1
142.5	2	2	2	3	3	3	2	2	1	1
145.0	2	2	2	3	3	3	2	2	1	1
147.5	2	2	2	2	3	3	2	2	1	1
150.0	2	2	2	2	3	3	2	2	1	1
152.5	2	3	3	3	3	3	2	2	1	1
155.0	2	3	2	2	3	2	2	2	1	1
157.5	2	2	2	2	2	2	2	1	1	0
160.0	2	2	2	2	2	2	2	1	1	0
162.5	2	2	2	2	2	2	2	1	1	0
165.0	2	2	2	2	2	2	1	1	0	0
167.5	2	2	2	2	2	2	1	1	0	0
170.0	2	2	2	2	2	2	1	1	0	0
172.5	2	2	2	2	2	1	1	1	0	0
175.0	1	2	2	2	2	2	1	1	0	0
177.5	2	2	2	1	1	1	1	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

**Vert. Horizontal Angles**

	<u>175.0</u>	<u>180.0</u>
0.0	236	236
2.5	212	215
5.0	171	171
7.5	154	155
10.0	153	159
12.5	146	153
15.0	147	161
17.5	145	151
20.0	141	142
22.5	134	129
25.0	133	132

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XENM3-PT-FT-LED-SS-CW.IES**

**CANDELA TABULATION - (Cont.)**

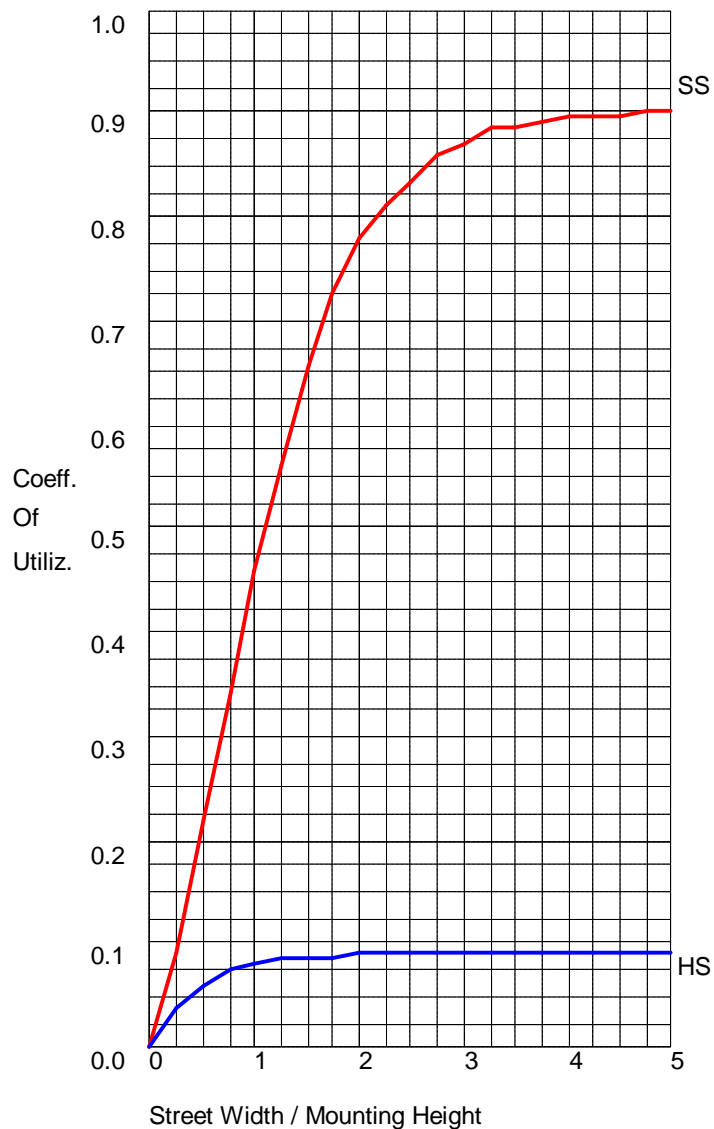
27.5	134	135
30.0	140	135
32.5	143	142
35.0	143	140
37.5	135	128
40.0	104	95
42.5	68	64
45.0	63	59
47.5	65	59
50.0	62	56
52.5	55	51
55.0	45	43
57.5	40	36
60.0	34	30
62.5	29	25
65.0	25	22
67.5	22	18
70.0	17	14
72.5	13	12
75.0	11	10
77.5	10	10
80.0	10	10
82.5	9	9
85.0	7	7
87.5	7	7
90.0	6	6
92.5	6	6
95.0	6	6
97.5	4	4
100.0	3	3
102.5	2	2
105.0	1	1
107.5	1	1
110.0	1	1
112.5	1	1
115.0	1	1
117.5	2	1
120.0	2	1
122.5	2	2
125.0	2	2
127.5	1	1
130.0	2	1
132.5	2	2
135.0	1	1
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 : XENM3-PT-FT-LED-SS-CW.IES**

**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	0	0
<b>170.0</b>	0	0
<b>172.5</b>	0	0
<b>175.0</b>	0	0
<b>177.5</b>	0	0
<b>180.0</b>	1	1

### COEFFICIENTS OF UTILIZATION

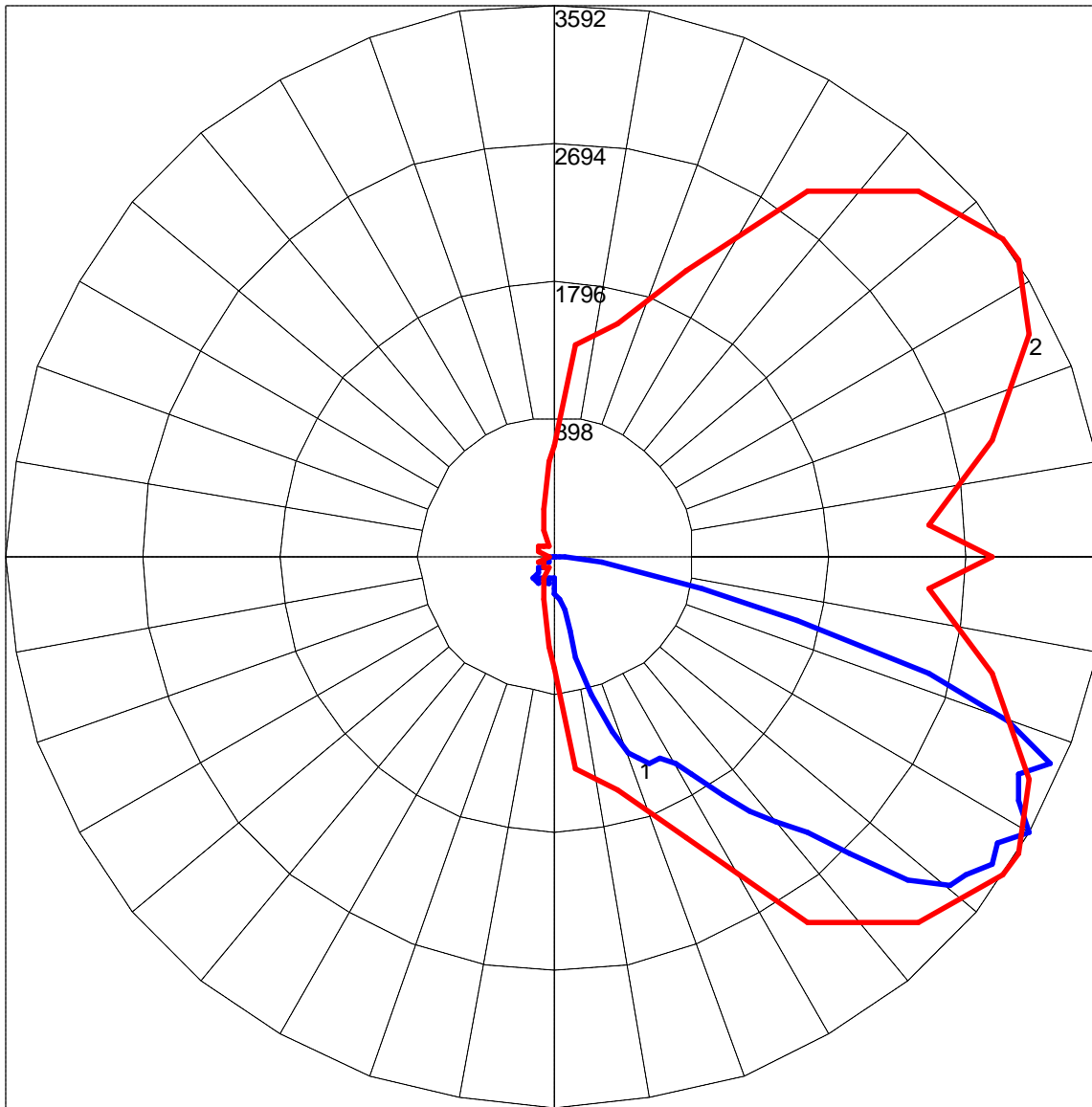


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	5040.2	90.5
Downward House Side	517.1	9.3
Downward Total	5557.3	99.7
Upward Street Side	6.8	0.1
Upward House Side	8.1	0.1
Upward Total	14.9	0.3
Total Flux	5572.2	100.0

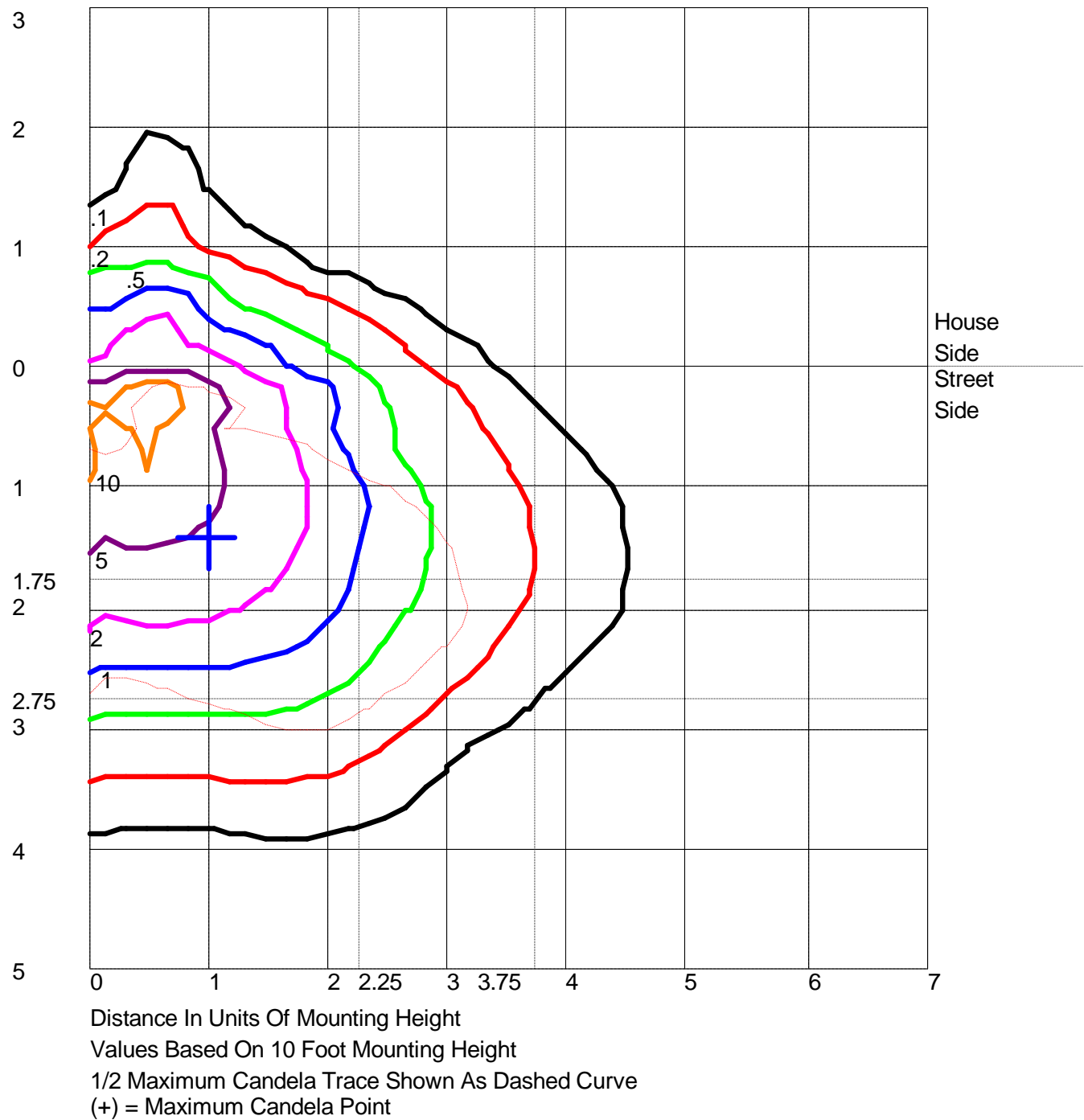


POLAR GRAPH

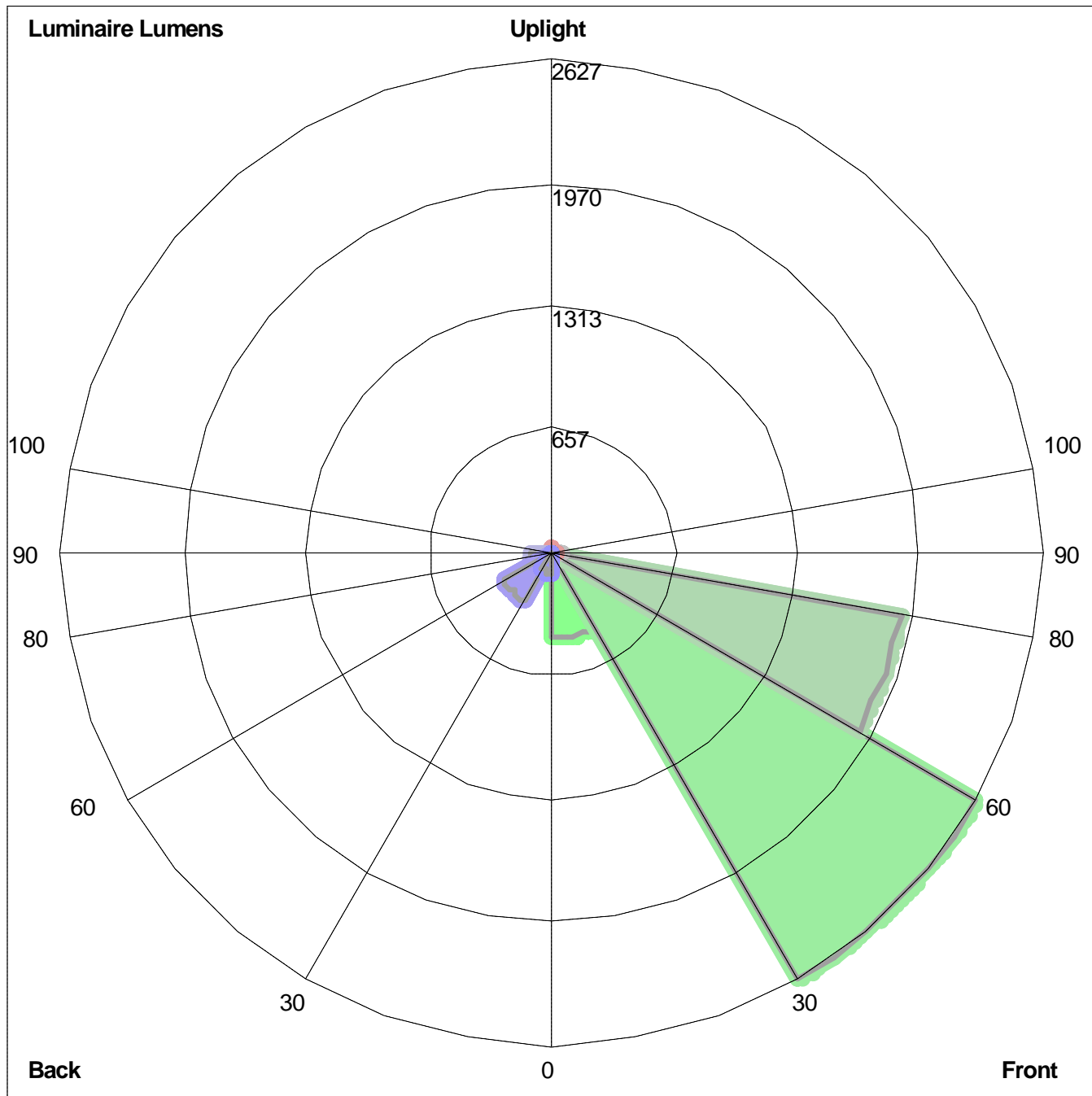


Maximum Candela = 3592 Located At Horizontal Angle = 35, Vertical Angle = 60  
# 1 - Vertical Plane Through Horizontal Angles (35 - 215) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=461.2, Medium=2626.6, High=1891.9, Very High=60.4  
Back: Low=106.4, Medium=296.7, High=107.4, Very High=6.5  
Uplight: Low=3.0, High=11.9

BUG Rating : B1-U2-G2