



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

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-4786  
[TESTLAB]LSI INDUSTRIES, INC  
[ISS DATE]11/25/13  
[TESTDATE]11/25/13  
[MANUFAC]LSI INDUSTRIES, INC  
[LUMCAT]XENM3-PT-FT-LED-SS-NW  
[\_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[\_ABSOLUTE]LUMENS]5354  
[\_SEARCH\_SOURCE]TYPE] 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	5355
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	70
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3550
Maximum Candela Angle	35H 62.5V
Maximum Candela (<90 Degrees Vertical)	3550
Maximum Candela Angle (<90 Degrees Vertical)	35H 62.5V
Maximum Candela At 90 Degrees Vertical	7 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1053 (19.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	400.8	N.A.	7.5
FM - Front-Medium (30-60)	2484.8	N.A.	46.4
FH - Front-High (60-80)	1898.1	N.A.	35.4
FVH - Front-Very High (80-90)	74.1	N.A.	1.4
BL - Back-Low (0-30)	99.1	N.A.	1.9
BM - Back-Medium (30-60)	275.3	N.A.	5.1
BH - Back-High (60-80)	98.0	N.A.	1.8
BVH - Back-Very High (80-90)	6.1	N.A.	0.1
UL - Uplight-Low (90-100)	3.6	N.A.	0.1
UH - Uplight-High (100-180)	14.6	N.A.	0.3
Total	5354.5	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>35.0</u>	<u>37.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
<b>0.0</b>	188	188	188	188	188	188	188	188	188	188
<b>2.5</b>	219	222	222	219	219	218	214	203	196	190
<b>5.0</b>	286	292	290	272	244	244	233	217	207	193
<b>7.5</b>	387	382	341	303	287	279	277	255	228	209
<b>10.0</b>	553	539	452	423	383	373	330	309	302	263
<b>12.5</b>	774	736	632	596	547	534	535	474	389	331
<b>15.0</b>	964	907	801	766	745	757	762	664	515	416
<b>17.5</b>	1104	1032	979	918	1013	1017	942	843	700	501
<b>20.0</b>	1226	1082	1060	1079	1219	1192	1146	1063	920	629
<b>22.5</b>	1258	1124	1181	1223	1291	1299	1310	1312	1203	800
<b>25.0</b>	1320	1139	1182	1256	1391	1399	1454	1612	1446	997
<b>27.5</b>	1384	1230	1230	1359	1365	1411	1662	1850	1721	1202
<b>30.0</b>	1513	1328	1303	1404	1471	1517	1788	2066	1989	1426
<b>32.5</b>	1718	1466	1450	1475	1608	1675	1874	2160	2193	1679
<b>35.0</b>	1927	1618	1657	1632	1778	1792	1940	2093	2289	1897
<b>37.5</b>	2098	1757	1800	1776	1998	1955	1965	2015	2280	1963
<b>40.0</b>	2269	1899	1954	1978	2159	2138	2038	1970	2190	2049
<b>42.5</b>	2498	2087	2163	2264	2313	2288	2152	1931	2094	2064
<b>45.0</b>	2783	2333	2449	2613	2535	2517	2264	1931	1989	2013
<b>47.5</b>	2810	2376	2591	2981	2845	2792	2427	2017	1837	1959
<b>50.0</b>	2897	2462	2681	3083	3188	3129	2662	2112	1737	1866
<b>52.5</b>	2969	2532	2858	3224	3317	3319	2977	2214	1688	1766
<b>55.0</b>	3036	2601	2904	3290	3362	3329	3185	2369	1714	1653
<b>57.5</b>	3124	2712	3134	3338	3401	3391	3176	2597	1796	1557
<b>60.0</b>	2804	2434	2983	3528	3449	3393	3254	2761	1924	1503
<b>62.5</b>	2904	2515	2977	3225	3550	3548	3301	2849	2084	1390
<b>65.0</b>	2911	2524	3014	3273	3272	3300	3397	2951	2102	1203
<b>67.5</b>	2374	2063	2606	3187	3358	3376	3327	2799	2014	1135
<b>70.0</b>	1771	1526	1817	2391	3314	3413	3177	2496	2026	1094
<b>72.5</b>	1224	1102	1359	1830	2550	2683	2740	2214	1912	1087
<b>75.0</b>	749	683	837	1270	1819	1865	1929	1894	1645	1077
<b>77.5</b>	394	376	471	823	1072	1072	1083	1294	1464	1065
<b>80.0</b>	82	87	146	333	480	497	535	670	1053	870
<b>82.5</b>	23	25	43	72	103	107	174	261	467	599
<b>85.0</b>	9	9	11	18	23	22	28	51	111	257
<b>87.5</b>	3	3	4	6	6	6	7	8	12	40
<b>90.0</b>	1	1	2	3	3	3	3	3	3	3
<b>92.5</b>	1	1	2	2	3	3	3	3	3	3
<b>95.0</b>	1	1	2	2	3	3	3	3	3	3
<b>97.5</b>	2	2	2	2	3	3	3	3	3	3
<b>100.0</b>	1	1	2	2	3	2	3	3	3	3
<b>102.5</b>	2	1	2	2	2	2	3	3	3	3
<b>105.0</b>	1	1	2	2	2	2	2	3	3	3
<b>107.5</b>	1	1	2	2	2	2	3	3	3	3
<b>110.0</b>	1	1	2	2	2	2	3	3	3	3
<b>112.5</b>	1	1	2	2	2	2	3	3	3	3
<b>115.0</b>	2	2	2	2	3	3	3	3	3	3
<b>117.5</b>	2	2	2	2	3	3	3	3	3	3
<b>120.0</b>	2	2	3	3	3	3	3	3	3	4
<b>122.5</b>	2	2	3	3	3	3	3	4	4	4
<b>125.0</b>	2	2	3	3	3	3	3	4	4	4
<b>127.5</b>	3	2	3	3	3	3	3	4	4	4
<b>130.0</b>	3	3	4	4	4	4	4	4	4	4

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**CANDELA TABULATION - (Cont.)**

132.5	3	3	4	4	3	3	4	4	4	4
135.0	3	3	4	4	3	3	3	4	4	4
137.5	2	2	3	2	3	2	3	3	3	3
140.0	1	1	1	2	2	2	2	2	2	3
142.5	1	1	1	1	2	2	2	2	2	2
145.0	1	1	1	2	2	2	2	2	2	3
147.5	1	1	1	2	2	2	2	2	2	3
150.0	1	1	1	2	2	2	2	2	3	3
152.5	1	1	1	2	2	2	2	2	3	3
155.0	1	1	1	1	2	2	2	2	2	3
157.5	1	1	1	1	2	2	2	2	2	2
160.0	0	1	1	1	2	2	2	2	2	2
162.5	1	1	1	1	2	2	2	2	2	2
165.0	1	1	1	1	2	2	2	2	2	2
167.5	1	1	1	2	2	2	2	2	2	2
170.0	1	1	1	2	2	2	2	2	2	2
172.5	1	1	1	2	2	2	2	2	2	2
175.0	1	1	1	2	2	2	2	2	2	2
177.5	1	1	1	1	2	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	188	188	188	188	188	188	188	188	188	188
2.5	185	182	179	175	173	173	171	171	170	169
5.0	179	172	166	160	156	156	151	149	151	146
7.5	188	178	172	168	166	156	146	137	132	140
10.0	231	211	199	195	180	162	153	154	151	145
12.5	279	251	233	223	201	192	181	161	148	142
15.0	346	311	288	258	241	209	180	164	155	149
17.5	417	374	338	306	299	228	194	170	152	141
20.0	490	431	392	371	318	248	213	171	148	137
22.5	542	476	433	422	329	280	234	180	142	133
25.0	604	536	478	444	345	304	255	181	140	131
27.5	672	576	511	489	383	322	274	167	135	133
30.0	739	616	551	517	428	349	236	164	140	136
32.5	804	646	569	529	481	373	233	167	141	141
35.0	834	645	554	490	519	382	242	180	145	140
37.5	894	654	535	433	496	378	244	187	142	128
40.0	978	690	538	409	411	365	239	197	125	94
42.5	1056	727	559	390	338	355	207	192	95	69
45.0	1117	756	573	382	287	357	183	155	93	71
47.5	1146	775	587	360	246	329	152	129	115	80
50.0	1176	774	596	348	215	266	109	119	144	81
52.5	1207	776	599	330	195	205	84	110	148	84
55.0	1216	766	612	304	182	115	80	99	139	91
57.5	1194	725	591	297	168	79	81	94	127	103
60.0	1176	682	561	267	149	81	76	88	124	116
62.5	1117	685	517	235	96	87	64	87	122	130
65.0	1041	677	494	212	75	86	57	78	122	98
67.5	914	598	438	188	82	74	43	61	35	20
70.0	777	548	354	140	86	56	36	29	24	15
72.5	671	467	302	90	79	43	32	28	24	12
75.0	577	389	236	76	61	32	26	23	25	11
77.5	482	273	165	78	46	22	21	14	16	10

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CANDELA TABULATION - (Cont.)

80.0	357	171	99	62	25	14	12	6	11	10
82.5	257	89	41	33	14	8	8	4	7	10
85.0	116	32	16	12	6	4	4	3	5	7
87.5	21	7	4	3	3	3	3	3	5	6
90.0	3	3	3	3	3	3	3	3	4	6
92.5	3	3	3	3	3	3	4	3	5	6
95.0	3	3	3	3	4	4	4	3	5	6
97.5	3	3	3	4	4	4	4	3	4	4
100.0	3	3	3	3	4	4	4	3	3	3
102.5	3	3	3	4	4	4	4	3	3	3
105.0	3	3	3	4	4	4	4	3	3	2
107.5	3	3	3	3	4	4	4	3	3	2
110.0	3	3	3	4	4	4	4	3	3	2
112.5	3	3	3	4	4	4	4	3	3	2
115.0	3	3	4	4	4	4	4	3	3	3
117.5	3	4	4	4	4	4	4	3	3	3
120.0	4	4	4	4	4	4	4	4	3	3
122.5	4	4	4	4	4	5	5	4	4	3
125.0	4	4	4	4	4	5	4	4	4	3
127.5	4	4	4	4	4	4	4	4	3	3
130.0	4	4	4	4	4	5	5	4	3	3
132.5	4	4	4	4	4	4	4	4	3	3
135.0	4	4	4	4	4	4	4	3	3	3
137.5	3	3	3	3	4	4	3	3	2	2
140.0	3	3	3	3	3	3	3	2	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	2	1
155.0	3	3	3	3	3	3	2	2	1	1
157.5	3	3	3	3	3	3	2	2	1	1
160.0	2	3	3	3	2	2	2	1	1	1
162.5	2	2	2	2	3	2	2	1	1	1
165.0	2	2	2	2	2	2	2	1	1	1
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	1	0
177.5	2	2	2	2	2	2	1	1	1	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	188	188
2.5	170	169
5.0	149	150
7.5	140	141
10.0	148	148
12.5	144	141
15.0	148	144
17.5	137	134
20.0	132	127
22.5	128	127
25.0	127	126

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

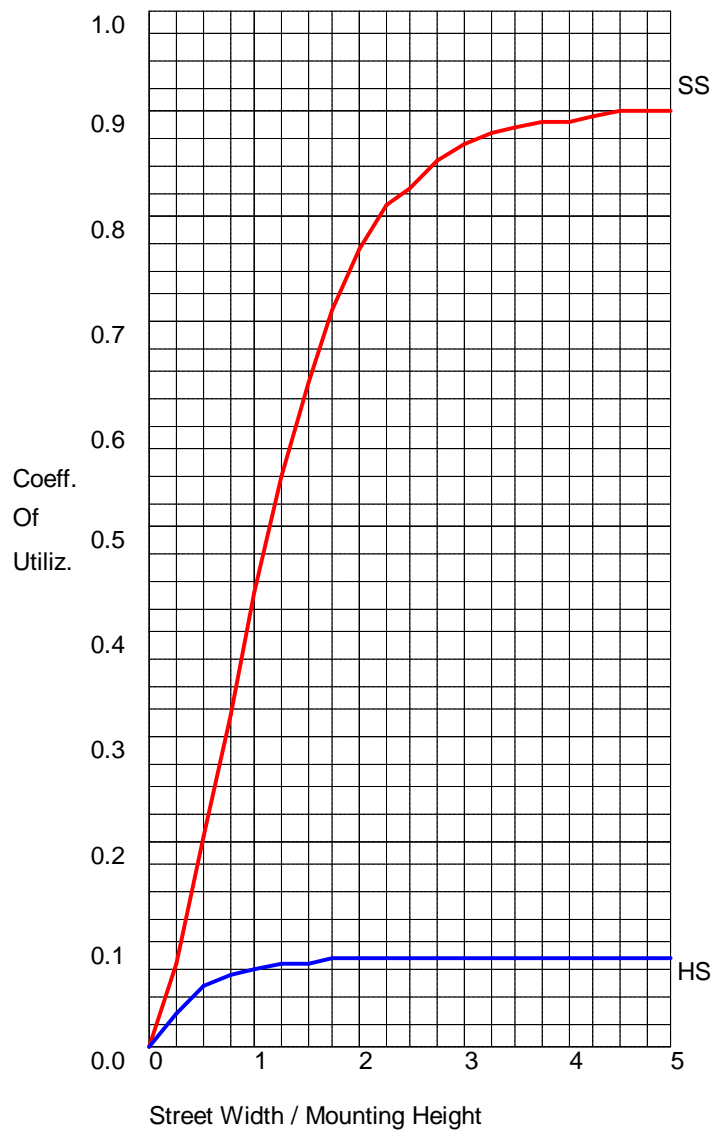
27.5	131	132
30.0	134	134
32.5	137	136
35.0	135	133
37.5	114	110
40.0	72	67
42.5	57	53
45.0	58	53
47.5	59	54
50.0	56	52
52.5	47	45
55.0	41	38
57.5	36	32
60.0	32	27
62.5	27	23
65.0	24	19
67.5	19	15
70.0	12	11
72.5	10	10
75.0	9	9
77.5	9	9
80.0	9	9
82.5	8	8
85.0	7	7
87.5	7	7
90.0	6	7
92.5	6	7
95.0	6	6
97.5	5	5
100.0	3	3
102.5	2	2
105.0	2	2
107.5	2	2
110.0	2	2
112.5	2	2
115.0	2	2
117.5	2	3
120.0	3	3
122.5	3	3
125.0	3	3
127.5	3	3
130.0	3	3
132.5	2	3
135.0	2	2
137.5	2	2
140.0	1	1
142.5	1	1
145.0	1	1
147.5	1	1
150.0	1	1
152.5	1	1
155.0	1	0
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0

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**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

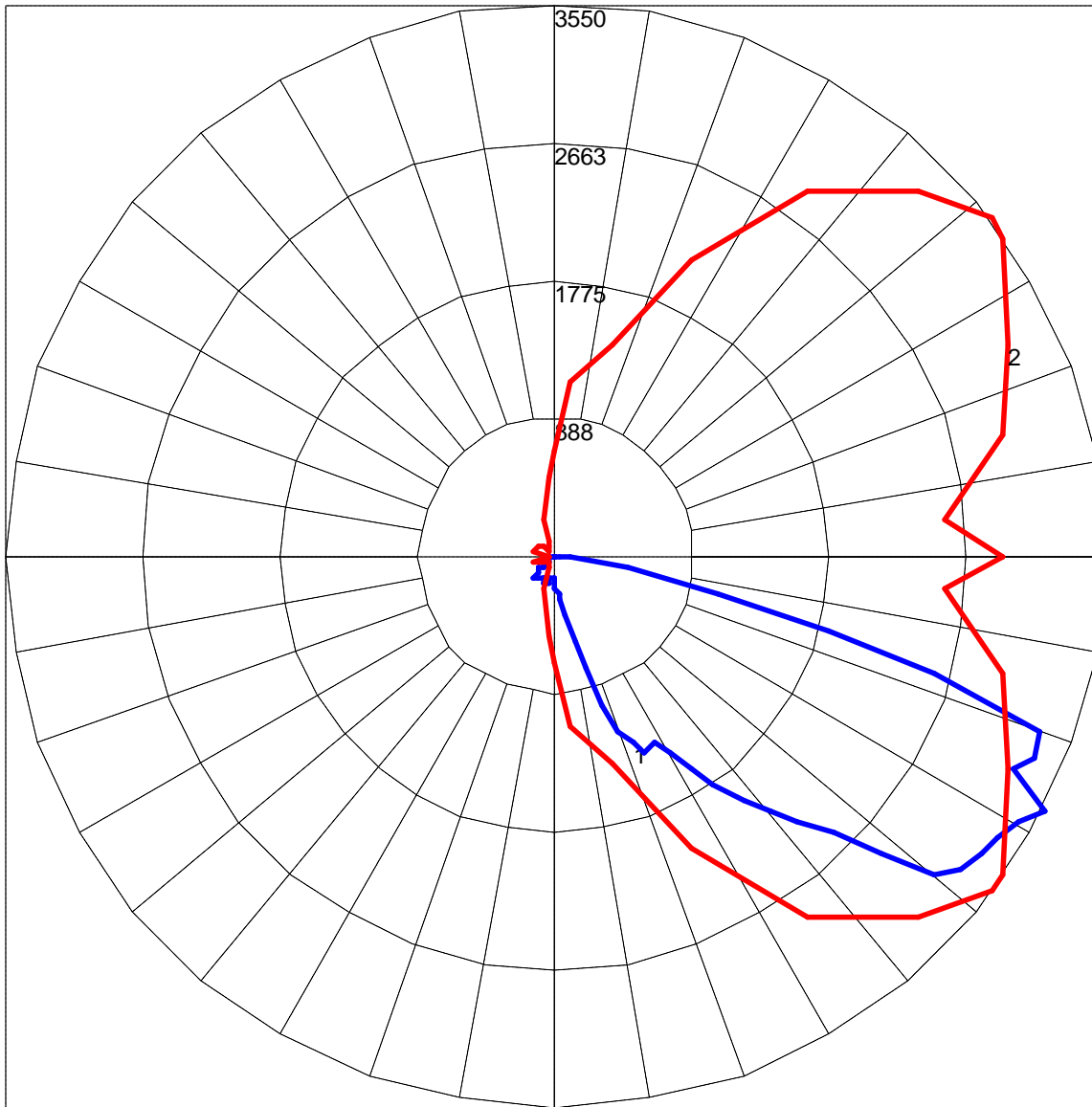


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	4857.8	90.7
Downward House Side	478.5	8.9
Downward Total	5336.3	99.7
Upward Street Side	8.2	0.2
Upward House Side	10.0	0.2
Upward Total	18.2	0.3
Total Flux	5354.5	100.0

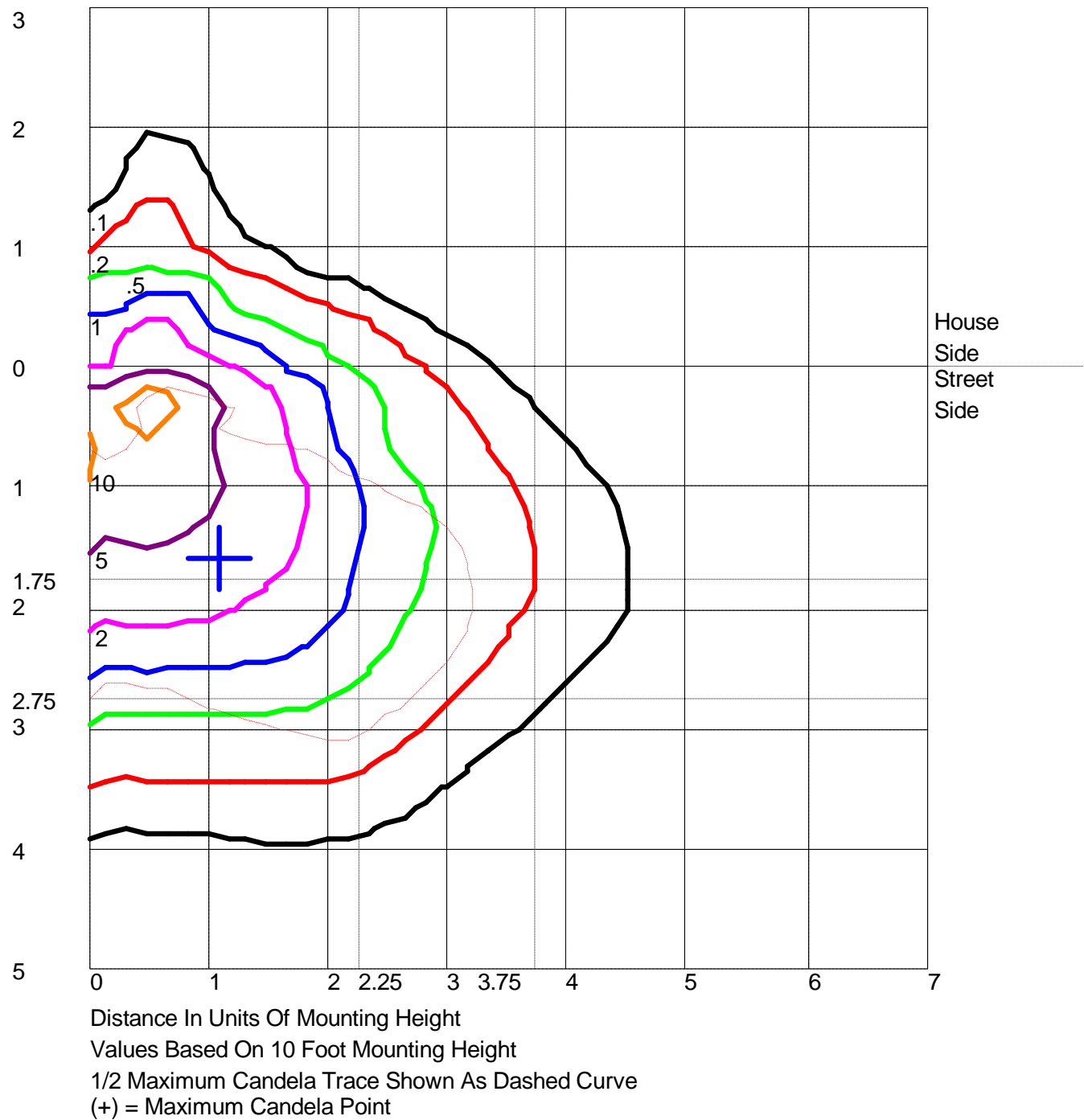


POLAR GRAPH

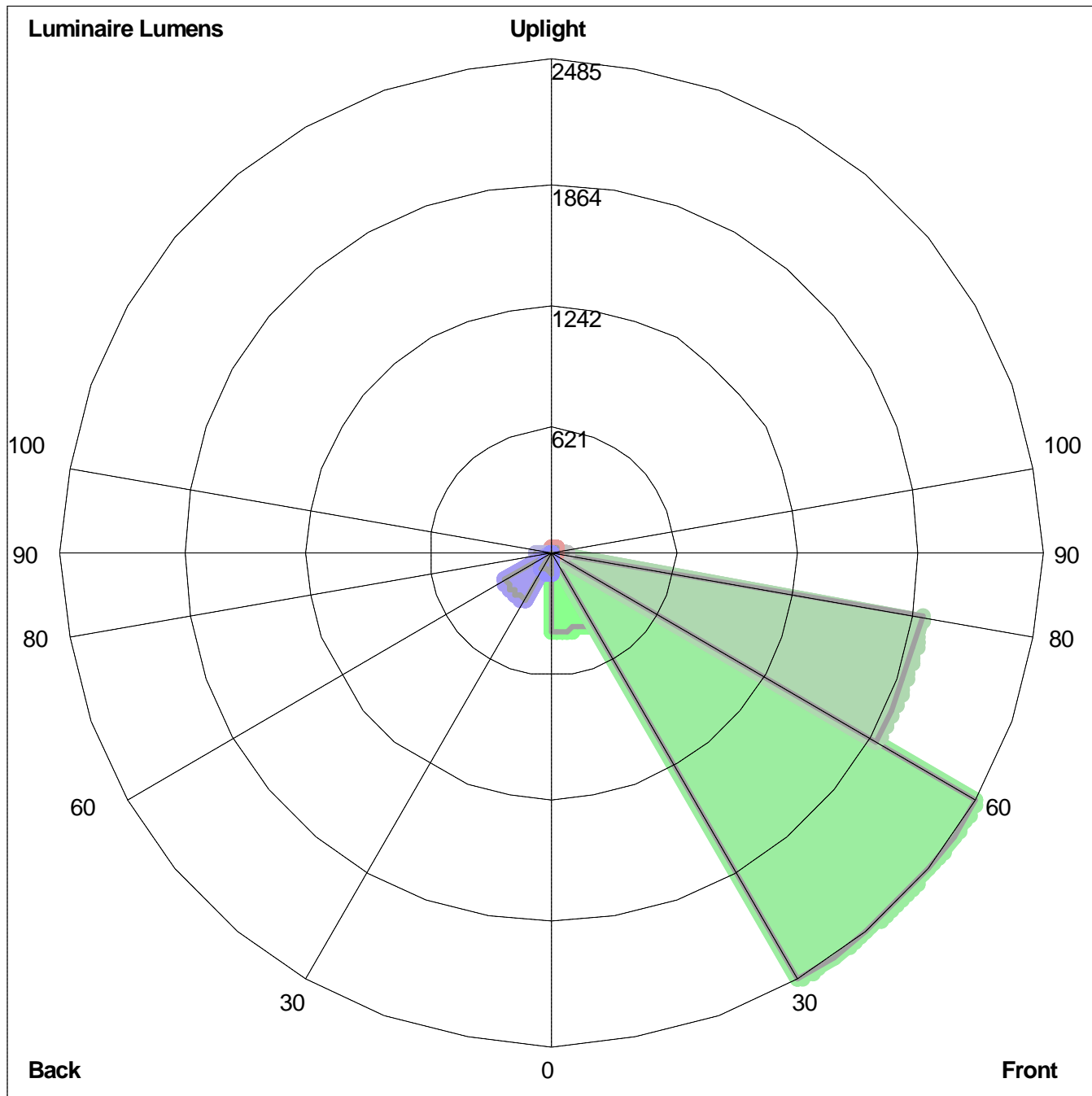


Maximum Candela = 3550 Located At Horizontal Angle = 35, Vertical Angle = 62.5  
# 1 - Vertical Plane Through Horizontal Angles (35 - 215) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=400.8, Medium=2484.8, High=1898.1, Very High=74.1  
Back: Low=99.1, Medium=275.3, High=98.0, Very High=6.1  
Uplight: Low=3.6, High=14.6

BUG Rating : B1-U2-G2