



IES ROAD REPORT

PHOTOMETRIC FILENAME : XGBM-3-LED-SS-NW-HSS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5334A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/16
[TEST DATE]03/30/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XGBM-3-LED-SS-NW-HSS
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]Tested with new Flat Black HSS Shield
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10384
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	55
Total Luminaire Watts	189
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7120
Maximum Candela Angle	50H 55V
Maximum Candela (<90 Degrees Vertical)	7120
Maximum Candela Angle (<90 Degrees Vertical)	50H 55V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1232 (11.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1224.6	N.A.	11.8
FM - Front-Medium (30-60)	5112.5	N.A.	49.2
FH - Front-High (60-80)	2569.9	N.A.	24.7
FVH - Front-Very High (80-90)	107.0	N.A.	1.0
BL - Back-Low (0-30)	567.6	N.A.	5.5
BM - Back-Medium (30-60)	618.1	N.A.	6.0
BH - Back-High (60-80)	179.4	N.A.	1.7
BVH - Back-Very High (80-90)	5.0	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	10384.1	N.A.	100.0
BUG Rating	B2-U0-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>50</u>	<u>55</u>	<u>65</u>	<u>75</u>
0.0	1623	1623	1623	1623	1623	1623	1623	1623	1623	1623
2.5	1640	1637	1641	1637	1644	1652	1645	1656	1657	1658
5.0	1645	1644	1653	1672	1693	1730	1737	1764	1799	1818
7.5	1744	1739	1754	1777	1831	1916	1951	1983	2035	2074
10.0	1848	1856	1911	2030	2155	2217	2221	2226	2293	2319
12.5	1969	1985	2074	2269	2447	2587	2624	2578	2498	2495
15.0	2146	2165	2299	2552	2740	2839	2880	2873	2694	2611
17.5	2365	2409	2635	2925	3072	3057	3038	3022	2924	2650
20.0	2593	2656	2994	3357	3425	3310	3177	3083	2961	2654
22.5	2891	2977	3472	3849	3841	3548	3326	3083	2953	2720
25.0	3044	3146	3763	4237	4240	3701	3402	3135	2924	2766
27.5	2914	3048	3791	4375	4365	3861	3520	3180	2744	2663
30.0	2825	2991	3794	4285	4312	4025	3700	3244	2682	2529
32.5	2890	3099	3926	4257	4181	4066	3846	3416	2715	2505
35.0	2959	3221	4184	4410	4138	4017	3972	3704	2901	2570
37.5	2946	3249	4362	4571	4250	3930	3938	3888	3158	2689
40.0	3055	3420	4563	4634	4571	3937	3909	3972	3458	2921
42.5	3485	3928	4965	4822	4870	4336	3987	4030	4043	3328
45.0	4004	4461	5438	5224	5117	4940	4475	4227	4598	3723
47.5	4484	4887	5602	5481	5560	5472	5133	4761	5106	3968
50.0	4642	5161	5903	5594	5883	6187	5801	5434	5206	4073
52.5	4294	4900	5494	5682	5956	6762	6545	6128	5191	4090
55.0	4338	4863	5289	5165	6007	6905	7120	6614	5054	3983
57.5	3332	3775	4266	4940	5559	6988	7090	6865	5101	4048
60.0	3199	3530	3576	3856	5317	6592	6943	6849	5111	3965
62.5	2382	2726	2985	3499	4281	5901	6474	6237	4874	3928
65.0	1261	1452	1661	2571	3877	4982	5407	5585	5090	4090
67.5	1038	1045	1258	1535	2801	4211	4577	5234	5172	3877
70.0	209	228	361	986	1840	3965	4588	4689	4246	3578
72.5	151	167	205	330	1262	3217	3955	4064	3896	3188
75.0	130	145	192	279	938	2556	2992	3205	2869	2372
77.5	105	120	147	222	758	1742	2081	2115	1924	1781
80.0	95	103	124	171	420	990	1120	1232	1127	868
82.5	84	93	108	124	219	406	451	462	475	320
85.0	84	93	105	108	124	164	165	173	151	130
87.5	89	98	110	114	127	127	112	81	71	42
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	1623	1623	1623	1623	1623	1623	1623	1623	1623	1623
2.5	1655	1651	1647	1642	1628	1613	1602	1586	1563	1555
5.0	1832	1819	1816	1775	1709	1634	1568	1505	1444	1409
7.5	2101	2083	2073	1981	1852	1721	1614	1512	1423	1360
10.0	2349	2326	2295	2144	1977	1831	1718	1550	1355	1235
12.5	2516	2485	2436	2226	2059	1942	1676	1489	1309	1161
15.0	2600	2563	2481	2241	2105	1821	1619	1405	1201	1032
17.5	2596	2568	2451	2197	2053	1689	1446	1217	1031	885
20.0	2583	2529	2365	2132	1807	1507	1209	970	849	772
22.5	2563	2487	2287	2077	1674	1300	971	783	768	723
25.0	2474	2385	2214	2034	1529	1096	788	734	701	670
27.5	2326	2275	2169	1913	1359	894	718	671	650	570
30.0	2225	2199	2147	1739	1155	732	651	621	530	415
32.5	2199	2208	2163	1644	935	622	619	513	381	269
35.0	2247	2234	2178	1552	724	483	510	376	261	187
37.5	2350	2310	2221	1455	608	396	377	246	203	164
40.0	2544	2477	2318	1339	543	358	269	180	155	122
42.5	2808	2750	2472	1219	503	317	205	149	115	100
45.0	3013	2973	2592	1106	471	256	162	108	103	89
47.5	3122	3077	2654	955	468	213	133	81	82	51
50.0	3109	3102	2639	808	398	178	116	62	40	21
52.5	3022	2983	2532	687	298	153	93	38	20	13
55.0	2875	2851	2410	571	227	117	71	23	14	11
57.5	2739	2602	2193	412	188	91	43	16	9	8
60.0	2488	2431	2052	340	154	92	21	11	6	5
62.5	2349	2447	1886	282	116	46	15	6	4	2
65.0	2389	2499	1691	221	84	25	14	5	3	0
67.5	2158	2139	1498	161	58	20	8	4	0	0
70.0	2075	1946	1387	120	28	18	7	1	0	0
72.5	1830	1631	1138	79	26	17	4	1	0	0
75.0	1432	1162	755	35	24	13	4	1	0	0
77.5	1077	816	439	19	26	10	3	1	0	0

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CANDELA TABULATION - (Cont.)

80.0	537	405	196	15	21	7	3	1	0	0
82.5	223	162	67	9	10	5	3	1	0	0
85.0	69	46	18	5	4	4	3	1	0	0
87.5	17	5	4	4	4	4	3	1	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	<u>175</u>	<u>180</u>
0.0	1623	1623
2.5	1552	1559
5.0	1390	1399
7.5	1328	1332
10.0	1177	1177
12.5	1075	1073
15.0	942	942
17.5	818	817
20.0	726	731
22.5	667	668
25.0	610	604

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CANDELA TABULATION - (Cont.)

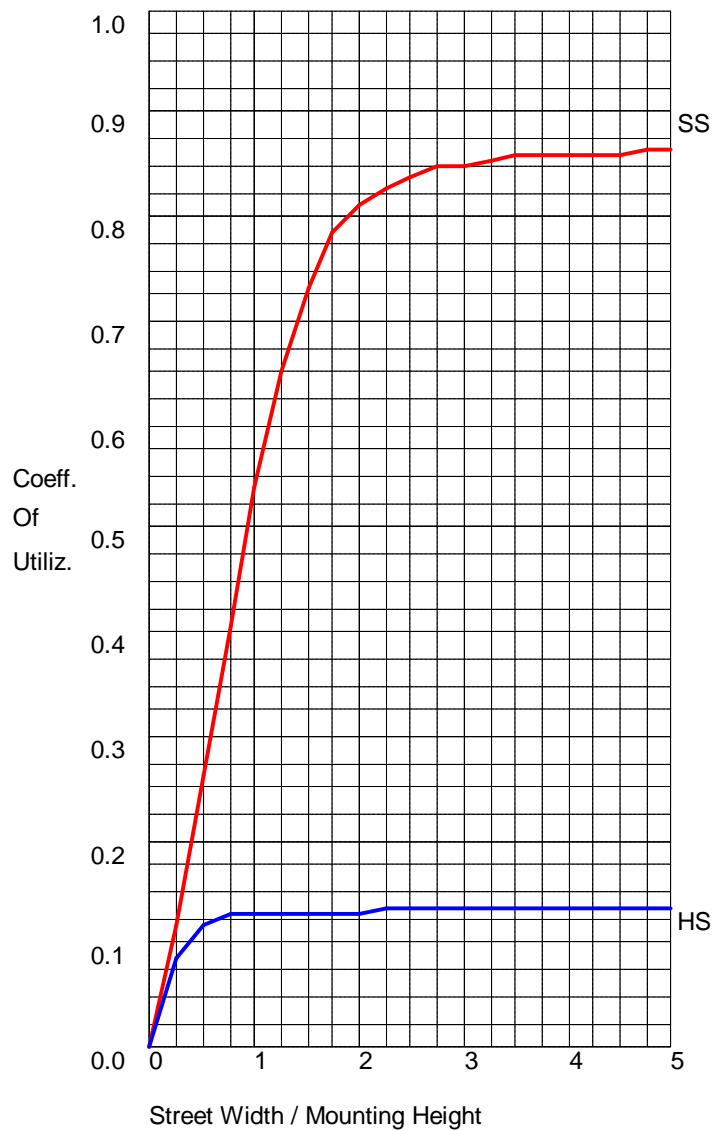
27.5	474	465
30.0	316	304
32.5	183	170
35.0	134	121
37.5	109	98
40.0	83	77
42.5	71	67
45.0	54	50
47.5	32	29
50.0	17	15
52.5	12	11
55.0	10	9
57.5	7	7
60.0	4	5
62.5	2	2
65.0	0	0
67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	0	0
110.0	0	0
112.5	0	0
115.0	0	0
117.5	0	0
120.0	0	0
122.5	0	0
125.0	0	0
127.5	0	0
130.0	0	0
132.5	0	0
135.0	0	0
137.5	0	0
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

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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	0	0

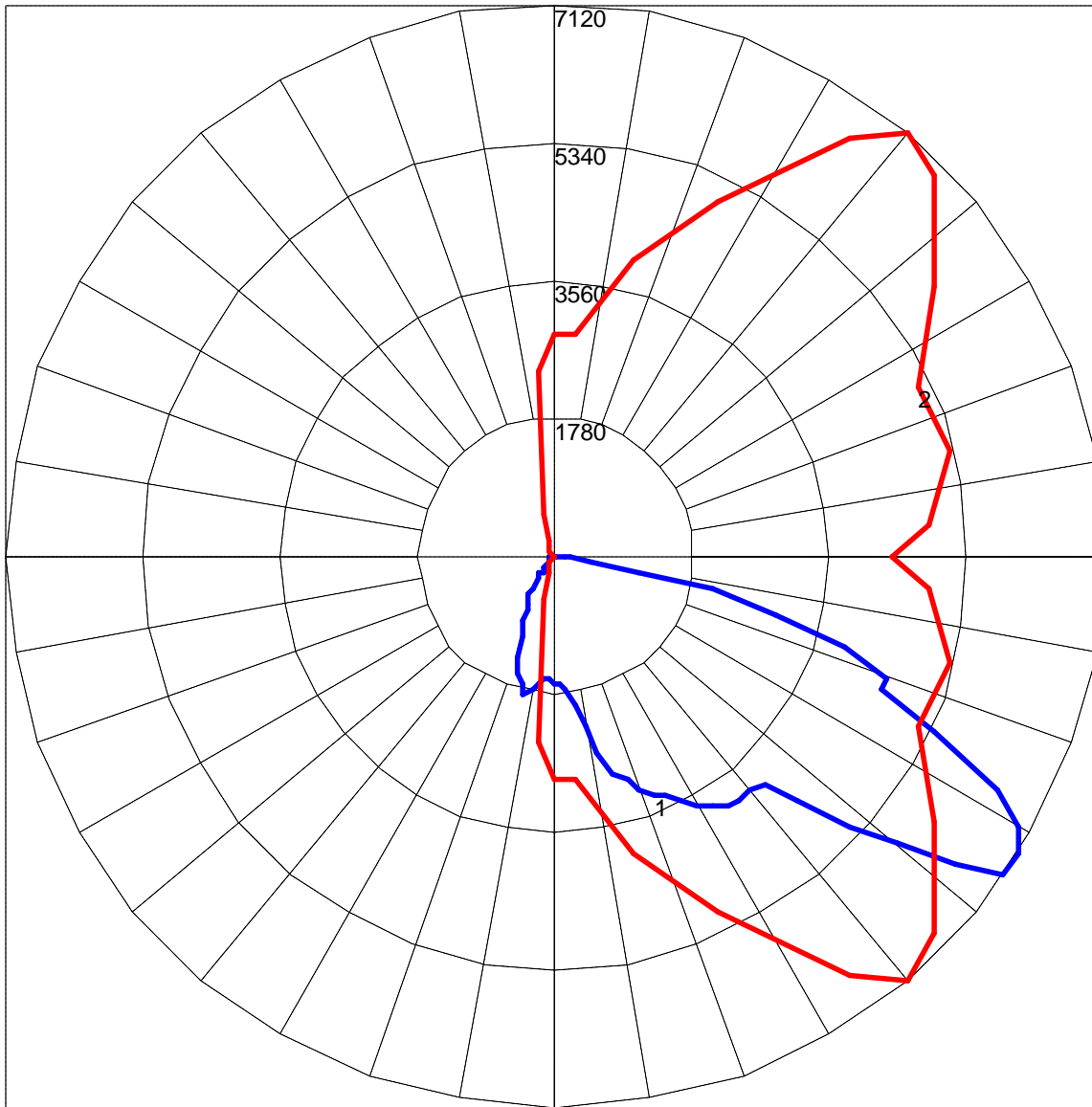
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

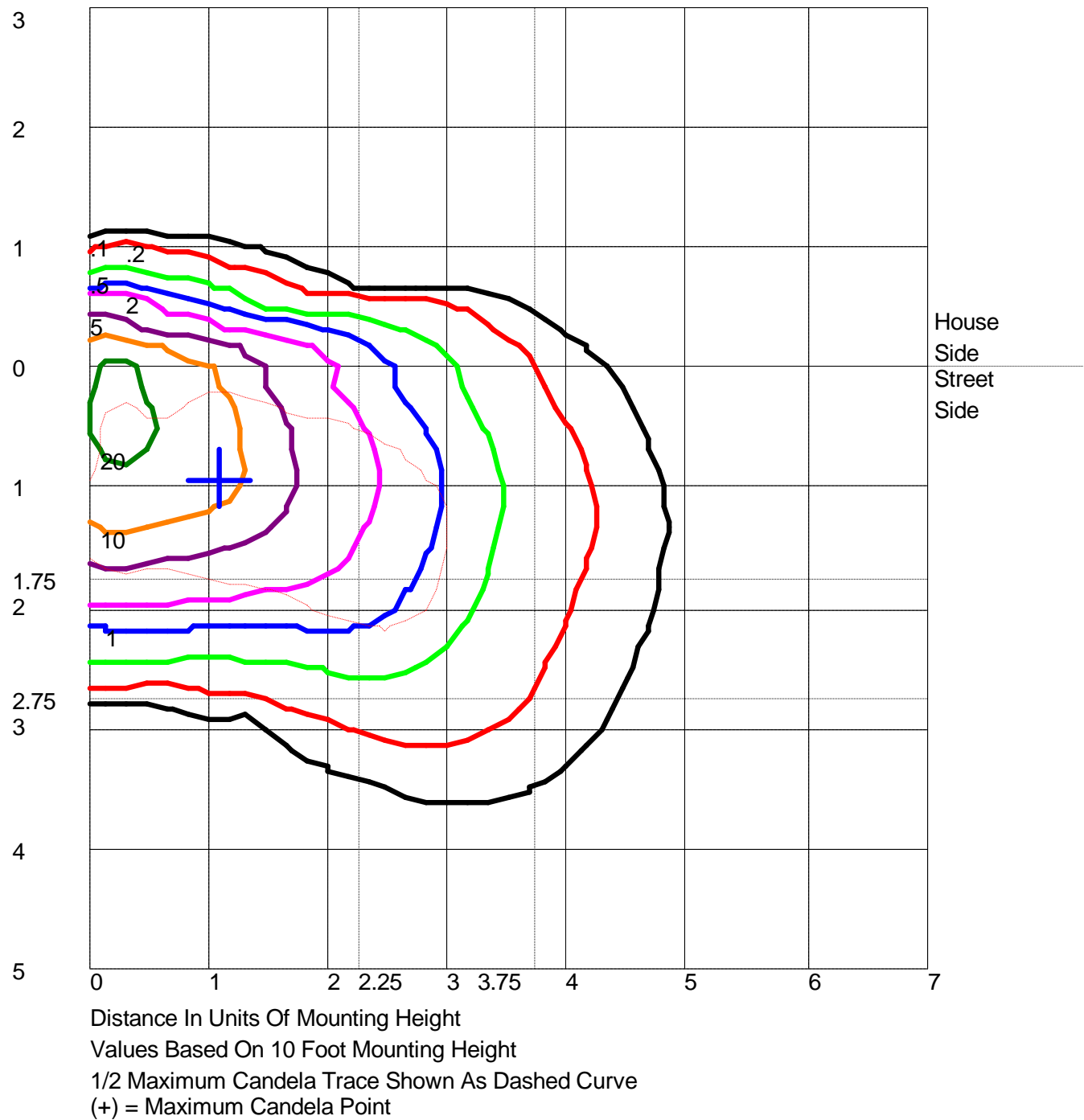
	Lumens	Percent Of Luminaire
Downward Street Side	9014.0	86.8
Downward House Side	1370.0	13.2
Downward Total	10384.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	10384.0	100.0

POLAR GRAPH

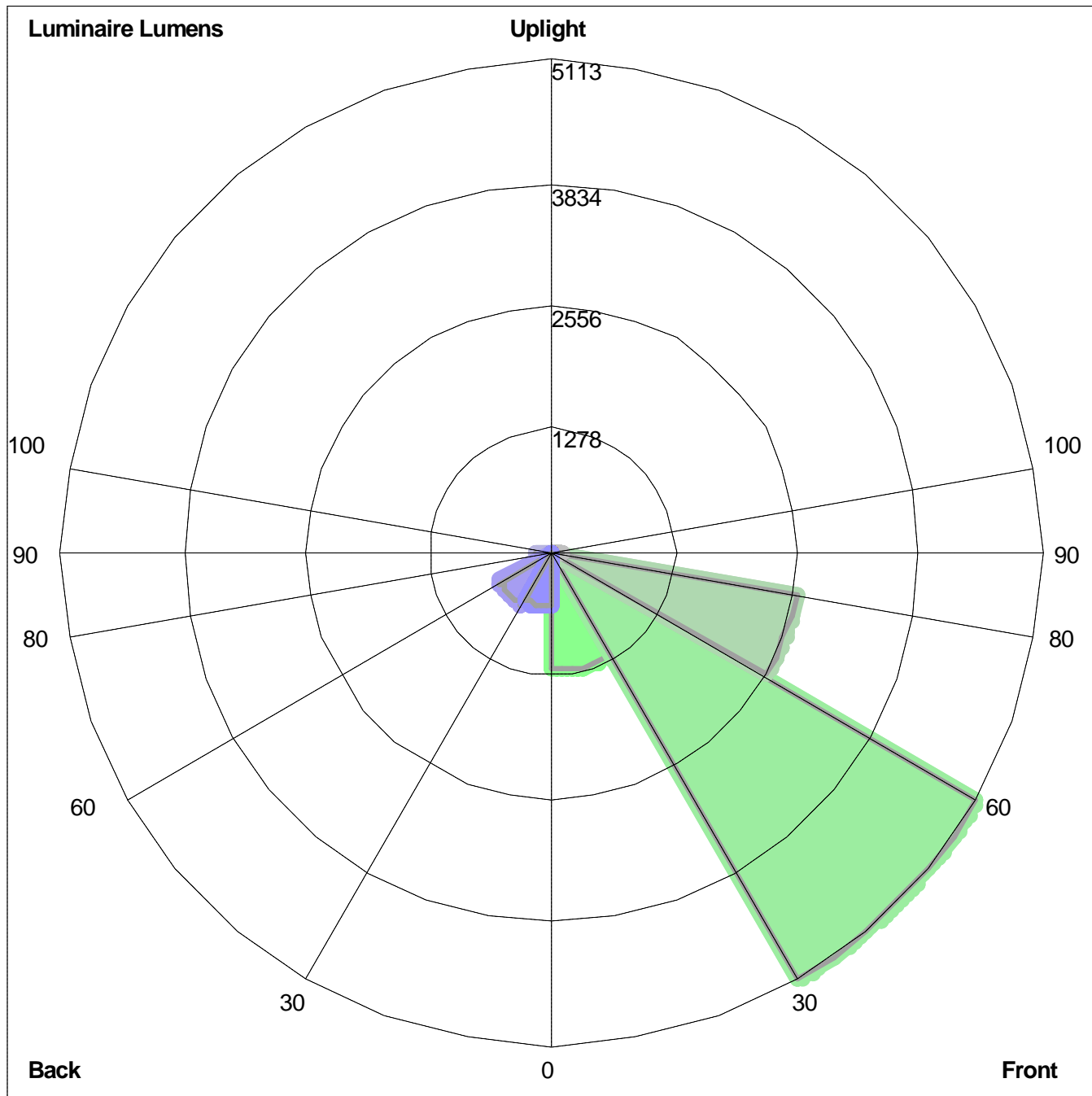


Maximum Candela = 7120 Located At Horizontal Angle = 50, Vertical Angle = 55
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1224.6, Medium=5112.5, High=2569.9, Very High=107.0
Back: Low=567.6, Medium=618.1, High=179.4, Very High=5.0
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2