



IES ROAD REPORT

PHOTOMETRIC FILENAME : XGBM-3-LED-LW-CW-HSS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5278A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/16
[TEST DATE]03/30/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XGBM-3-LED-LW-CW-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	9205
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	136.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7085
Maximum Candela Angle	50H 55V
Maximum Candela (<90 Degrees Vertical)	7085
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	1347 (14.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	962.7	N.A.	10.5
FM - Front-Medium (30-60)	4536.9	N.A.	49.3
FH - Front-High (60-80)	2550.5	N.A.	27.7
FVH - Front-Very High (80-90)	84.4	N.A.	0.9
BL - Back-Low (0-30)	396.6	N.A.	4.3
BM - Back-Medium (30-60)	515.3	N.A.	5.6
BH - Back-High (60-80)	156.4	N.A.	1.7
BVH - Back-Very High (80-90)	2.1	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	9204.9	N.A.	100.0
BUG Rating	B1-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	968	968	968	968	968	968	968	968	968	968
2.5	1014	1010	1014	1017	1017	1021	1025	1025	1025	1015
5.0	1065	1061	1066	1073	1086	1111	1126	1134	1157	1160
7.5	1138	1141	1148	1186	1246	1300	1342	1366	1403	1417
10.0	1231	1235	1261	1359	1494	1585	1643	1671	1739	1747
12.5	1322	1326	1390	1566	1794	1984	2055	2087	2053	2055
15.0	1431	1436	1555	1802	2124	2337	2418	2472	2394	2295
17.5	1574	1588	1794	2114	2445	2660	2727	2753	2656	2403
20.0	1696	1721	1985	2492	2846	3002	2938	2897	2729	2344
22.5	1815	1856	2269	2879	3272	3213	3102	2895	2607	2312
25.0	1830	1878	2448	3231	3652	3342	3135	2867	2423	2212
27.5	1691	1752	2407	3367	3814	3467	3160	2838	2287	2132
30.0	1641	1726	2479	3367	3639	3560	3257	2829	2221	2056
32.5	1647	1763	2651	3425	3520	3539	3354	2967	2325	2102
35.0	1658	1819	2928	3625	3553	3388	3387	3227	2575	2266
37.5	1617	1796	3187	3833	3615	3340	3390	3483	2986	2500
40.0	1678	1924	3492	3824	3929	3443	3421	3571	3496	2851
42.5	1878	2257	3888	4051	4264	3938	3691	3726	4044	3260
45.0	2221	2626	4312	4363	4601	4609	4300	4086	4570	3472
47.5	2713	2990	4573	4579	5018	5401	5152	4746	4834	3885
50.0	3014	3370	4943	4675	5400	6244	5976	5492	5025	3985
52.5	2886	3370	4887	4847	5556	6777	6672	6111	5059	4163
55.0	2802	3303	4504	4544	5707	6889	7085	6465	5148	4001
57.5	2373	2892	3885	4318	5345	6962	7044	6665	5058	3827
60.0	2092	2431	3093	3684	5024	6724	6903	6437	4932	4052
62.5	1547	1854	2412	3086	4345	5924	6199	5957	4945	4071
65.0	727	998	1378	2278	3685	5033	5469	5664	5202	4227
67.5	600	706	945	1371	2712	4368	5027	5448	5200	4176
70.0	110	168	299	871	1760	4170	4847	5095	4681	3687
72.5	74	98	155	322	1294	3418	4277	4567	4091	3357
75.0	52	74	120	220	997	2731	3418	3715	3176	2369
77.5	33	43	76	168	755	2082	2412	2518	1965	1305
80.0	23	28	51	92	504	1231	1334	1347	952	628
82.5	17	22	37	58	232	489	550	501	371	264
85.0	16	21	33	43	61	94	131	129	88	51
87.5	18	23	36	44	59	61	53	41	22	16
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	968	968	968	968	968	968	968	968	968	968
2.5	1013	1006	994	979	963	941	915	894	880	868
5.0	1155	1126	1102	1036	952	868	804	757	727	708
7.5	1427	1381	1337	1187	1051	932	850	781	729	684
10.0	1758	1691	1603	1370	1223	1103	995	848	693	594
12.5	2040	1952	1809	1538	1419	1273	1017	821	686	588
15.0	2248	2131	1935	1654	1547	1266	1017	842	691	580
17.5	2307	2154	1912	1665	1532	1149	960	788	664	587
20.0	2216	2078	1838	1641	1345	1023	819	694	639	599
22.5	2090	1975	1776	1616	1184	896	682	627	625	598
25.0	1946	1868	1729	1575	1081	756	609	597	575	531
27.5	1810	1764	1686	1489	958	644	570	530	494	410
30.0	1783	1743	1688	1357	800	572	514	454	371	262
32.5	1817	1790	1717	1206	643	515	457	356	239	140
35.0	1967	1913	1786	1134	515	428	370	238	168	101
37.5	2128	2053	1896	1071	486	359	268	164	151	94
40.0	2371	2281	2055	1001	476	345	193	135	115	65
42.5	2593	2509	2207	927	454	311	148	101	69	45
45.0	2790	2682	2360	838	430	246	96	59	58	39
47.5	3047	2900	2462	751	420	194	73	32	38	12
50.0	3114	2987	2485	670	359	135	83	23	3	0
52.5	3043	2947	2435	595	311	89	62	10	0	0
55.0	2772	2760	2220	522	215	59	53	2	0	0
57.5	2622	2600	2092	410	150	39	20	0	0	0
60.0	2532	2519	2060	303	104	29	4	0	0	0
62.5	2429	2490	1925	239	66	13	0	0	0	0
65.0	2391	2385	1609	150	30	5	0	0	0	0
67.5	2267	2107	1338	63	12	3	0	0	0	0
70.0	2128	1928	1165	30	5	2	0	0	0	0
72.5	1861	1611	967	10	5	1	0	0	0	0
75.0	1378	1147	678	4	6	0	0	0	0	0
77.5	792	628	393	2	5	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

80.0	373	291	156	1	3	0	0	0	0	0
82.5	163	100	24	0	0	0	0	0	0	0
85.0	15	2	0	0	0	0	0	0	0	0
87.5	1	0	0	0	0	0	0	0	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	968	968
2.5	863	867
5.0	699	705
7.5	670	675
10.0	561	562
12.5	536	534
15.0	528	521
17.5	549	538
20.0	573	562
22.5	566	556
25.0	475	455

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CANDELA TABULATION - (Cont.)

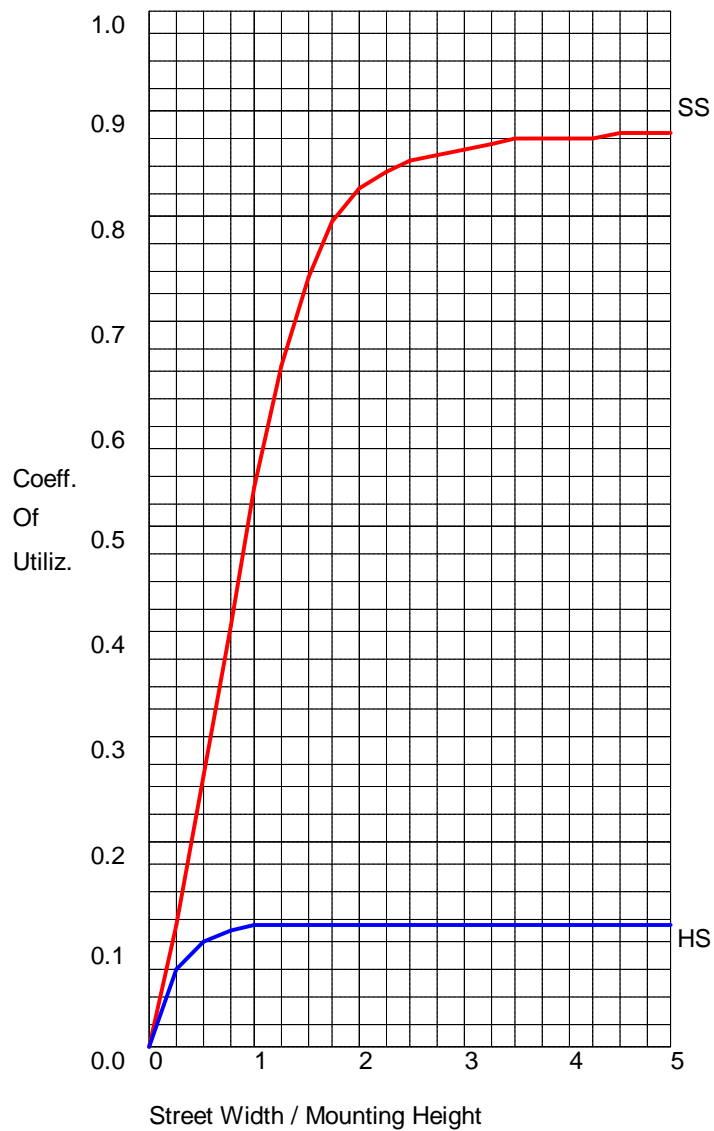
27.5	329	309
30.0	176	158
32.5	70	62
35.0	55	51
37.5	45	39
40.0	29	25
42.5	20	17
45.0	8	6
47.5	0	0
50.0	0	0
52.5	0	0
55.0	0	0
57.5	0	0
60.0	0	0
62.5	0	0
65.0	0	0
67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	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

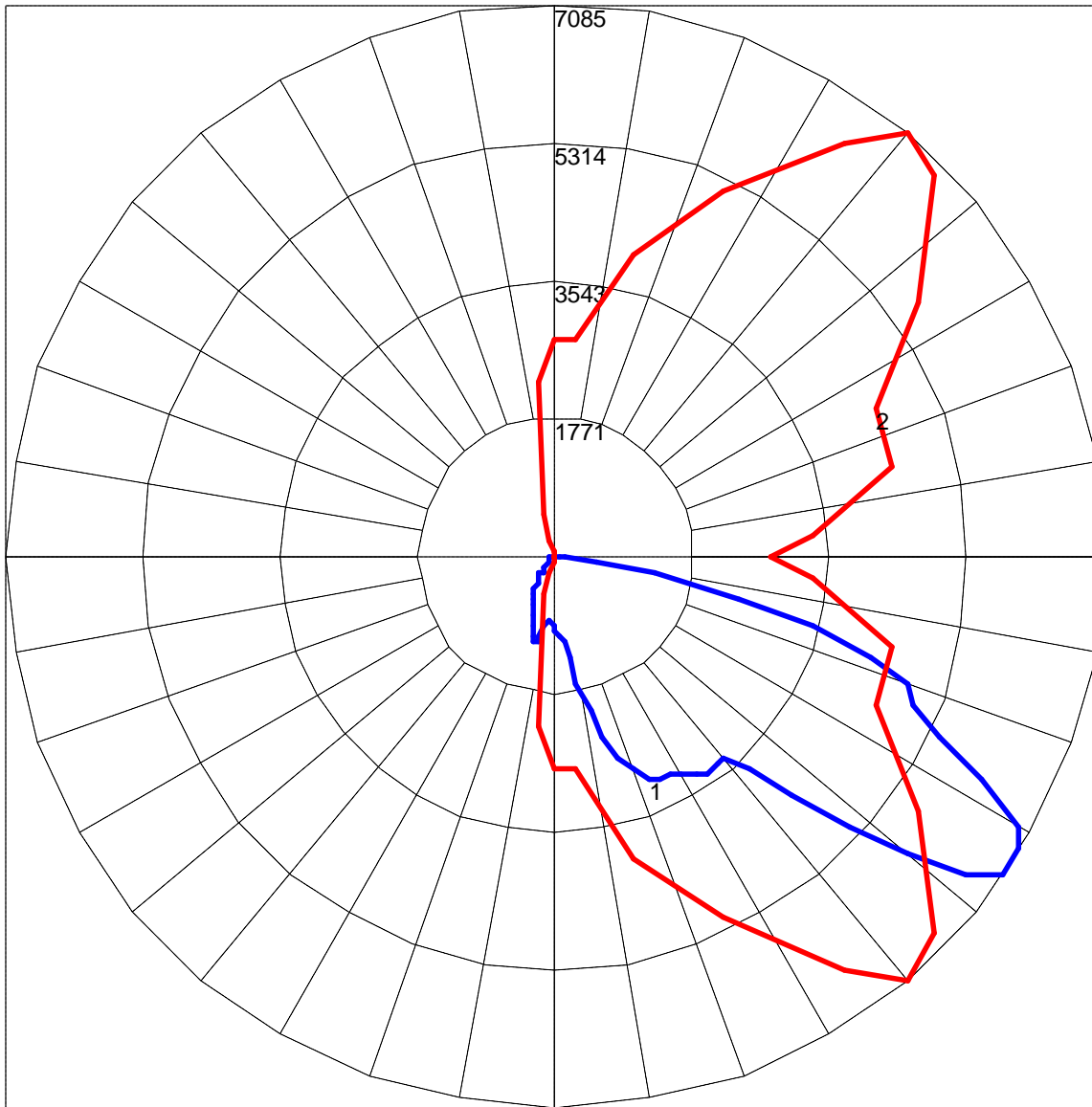
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

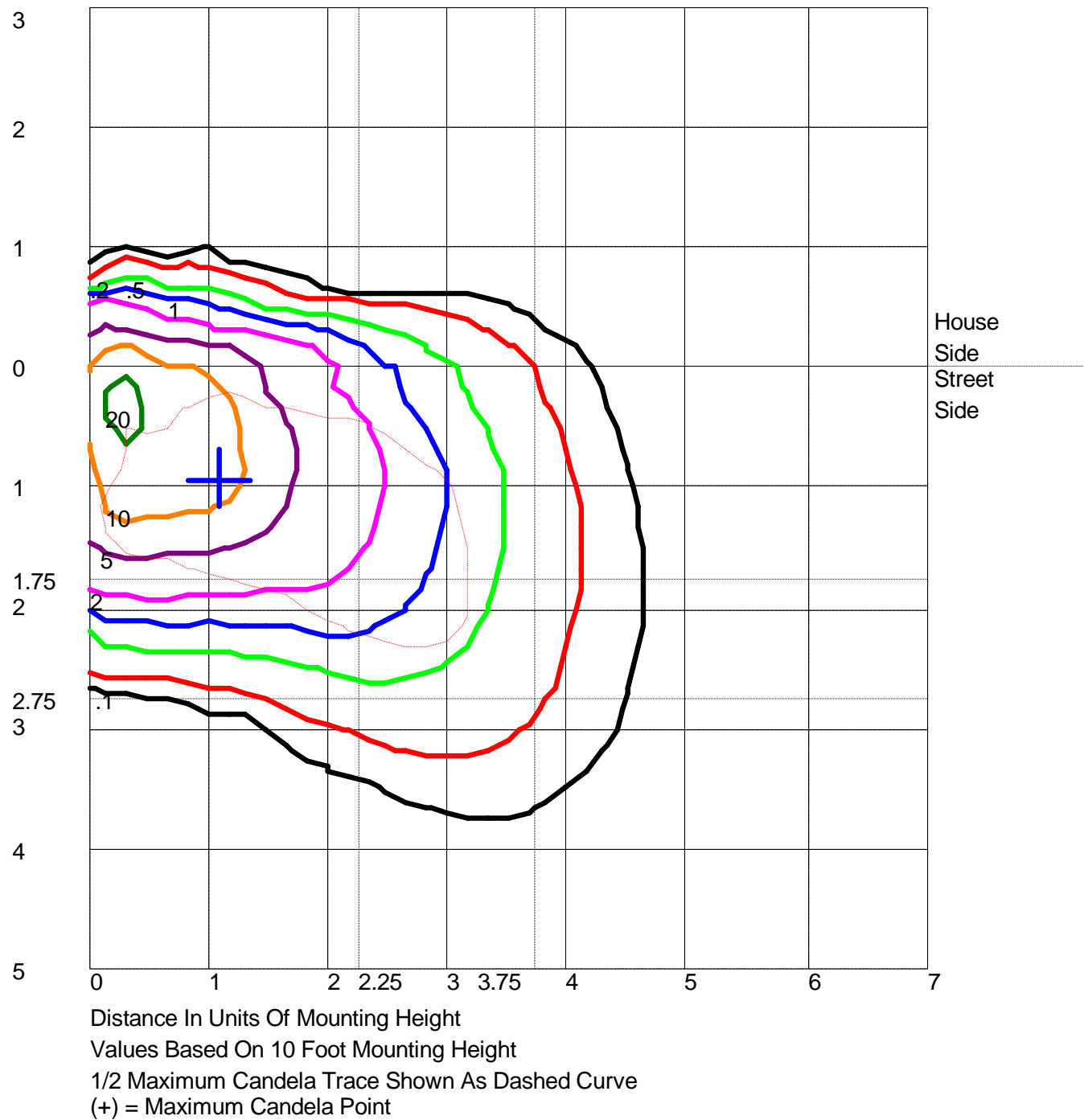
	Lumens	Percent Of Luminaire
Downward Street Side	8134.5	88.4
Downward House Side	1070.4	11.6
Downward Total	9204.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	9204.9	100.0

POLAR GRAPH

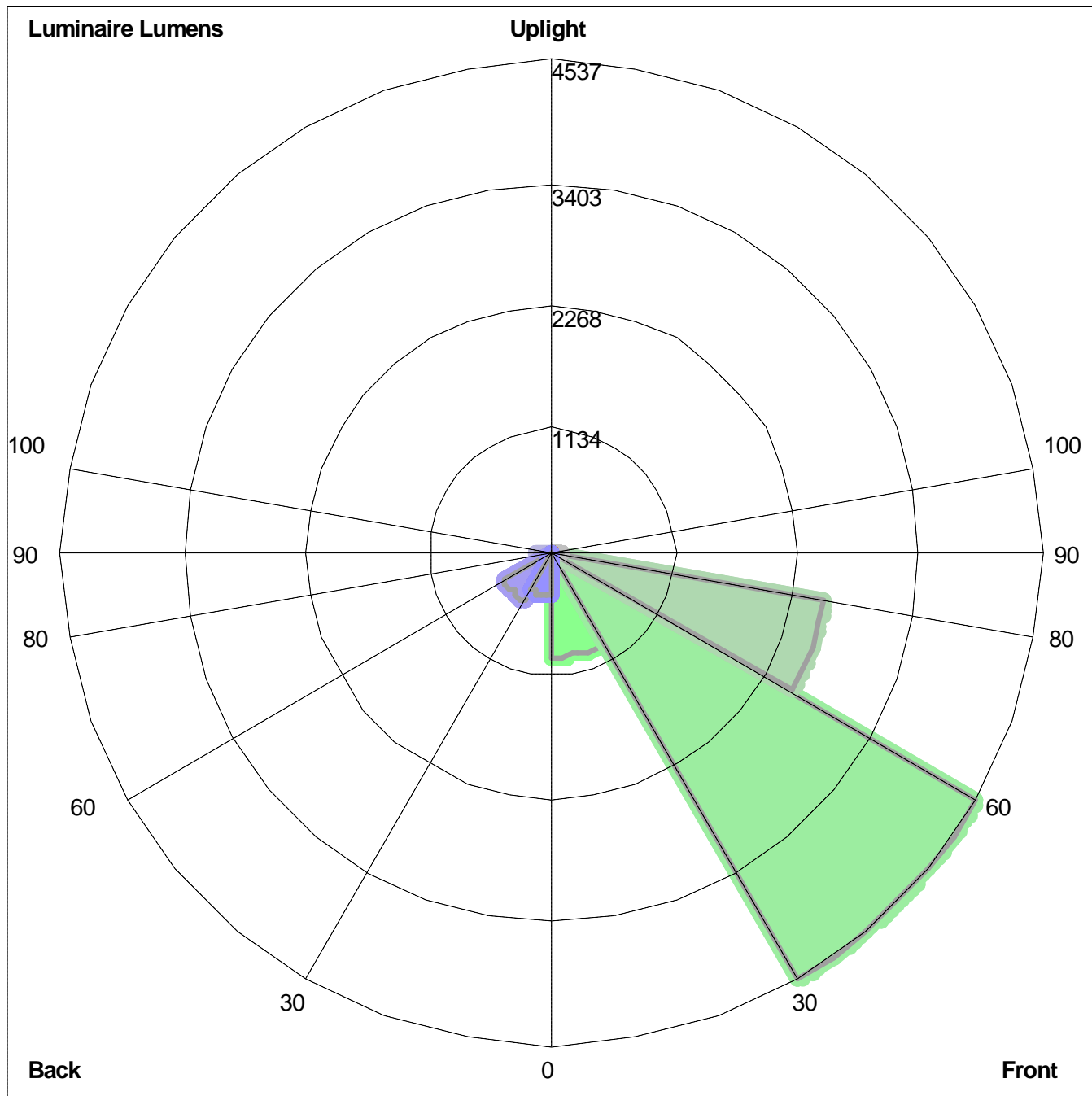


Maximum Candela = 7085 Located At Horizontal Angle = 50, Vertical Angle = 55
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=962.7, Medium=4536.9, High=2550.5, Very High=84.4
Back: Low=396.6, Medium=515.3, High=156.4, Very High=2.1
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G2