



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XGBM-FTA-LED-LW-NW-HSS.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-5312A  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]03/30/16  
[TEST DATE]03/30/16  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]XGBM-FTA-LED-LW-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	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9277
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	136.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9722
Maximum Candela Angle	20H 60V
Maximum Candela (<90 Degrees Vertical)	9722
Maximum Candela Angle (<90 Degrees Vertical)	20H 60V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	757 (8.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	887.6	N.A.	9.6
FM - Front-Medium (30-60)	3980.2	N.A.	42.9
FH - Front-High (60-80)	2966.1	N.A.	32.0
FVH - Front-Very High (80-90)	61.5	N.A.	0.7
BL - Back-Low (0-30)	630.7	N.A.	6.8
BM - Back-Medium (30-60)	638.6	N.A.	6.9
BH - Back-High (60-80)	110.3	N.A.	1.2
BVH - Back-Very High (80-90)	2.3	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	9277.3	N.A.	100.0
BUG Rating	B2-U0-G2		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0</b></u>	<u><b>5</b></u>	<u><b>15</b></u>	<u><b>20</b></u>	<u><b>25</b></u>	<u><b>35</b></u>	<u><b>45</b></u>	<u><b>55</b></u>	<u><b>65</b></u>	<u><b>75</b></u>
<b>0.0</b>	2241	2241	2241	2241	2241	2241	2241	2241	2241	2241
<b>2.5</b>	2187	2198	2200	2209	2199	2210	2200	2207	2199	2211
<b>5.0</b>	2052	2067	2074	2076	2077	2107	2120	2132	2149	2185
<b>7.5</b>	2082	2088	2098	2097	2095	2050	2011	2062	2106	2150
<b>10.0</b>	1960	1973	1986	1992	2001	2036	2085	2036	2056	2134
<b>12.5</b>	1892	1906	1915	1919	1921	1953	2007	2087	2033	2129
<b>15.0</b>	1858	1876	1879	1881	1885	1913	1938	2026	2141	2127
<b>17.5</b>	1851	1863	1867	1871	1873	1884	1910	1985	2144	2151
<b>20.0</b>	2033	2029	1919	1877	1871	1871	1887	1967	2131	2223
<b>22.5</b>	2077	2084	2089	2095	2088	1880	1881	1941	2119	2391
<b>25.0</b>	2070	2085	2089	2089	2088	2089	1878	1944	2165	2533
<b>27.5</b>	2083	2091	2106	2099	2098	2095	2109	2000	2246	2640
<b>30.0</b>	2077	2085	2095	2097	2100	2103	2174	2108	2308	2659
<b>32.5</b>	2395	2407	2376	2203	2110	2126	2266	2447	2317	2565
<b>35.0</b>	2491	2500	2488	2465	2446	2175	2400	2504	2261	2445
<b>37.5</b>	2608	2628	2601	2573	2558	2625	2495	2508	2206	2329
<b>40.0</b>	2963	2915	2821	2746	2714	2865	2642	2499	2326	2216
<b>42.5</b>	3325	3342	3257	3218	3069	3094	2981	2475	2342	2106
<b>45.0</b>	3710	3715	3618	3587	3622	3371	3066	2465	2295	2035
<b>47.5</b>	4278	4249	4060	4021	4112	3841	3142	2774	2258	1977
<b>50.0</b>	5402	5358	5000	4940	4735	4150	3432	2823	2255	1952
<b>52.5</b>	6293	6326	6067	6282	6203	4617	3684	2866	2279	2018
<b>55.0</b>	6971	6986	6650	7130	7205	5678	3920	3083	2430	2113
<b>57.5</b>	8360	8389	8263	8639	8020	6726	4774	3436	2553	2027
<b>60.0</b>	8414	8438	8953	9722	9565	7546	5833	3564	2481	1950
<b>62.5</b>	6968	7144	8424	9216	9514	9078	6524	3873	2407	1797
<b>65.0</b>	4461	4625	5744	6770	7826	9011	7607	4451	2280	1599
<b>67.5</b>	2557	2652	3263	3860	4772	7236	7510	4547	2254	1488
<b>70.0</b>	1081	1149	1498	1904	2667	4485	5793	4874	2561	1286
<b>72.5</b>	335	336	455	620	1226	2410	3308	4226	2721	1104
<b>75.0</b>	148	148	178	274	740	1017	1425	2413	2528	930
<b>77.5</b>	99	99	117	203	438	461	418	977	1785	837
<b>80.0</b>	86	88	105	130	209	226	170	287	668	757
<b>82.5</b>	81	83	92	96	104	123	115	140	182	420
<b>85.0</b>	82	82	86	92	97	95	93	103	81	90
<b>87.5</b>	81	81	84	90	94	90	79	62	40	15
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0
<b>92.5</b>	0	0	0	0	0	0	0	0	0	0
<b>95.0</b>	0	0	0	0	0	0	0	0	0	0
<b>97.5</b>	0	0	0	0	0	0	0	0	0	0
<b>100.0</b>	0	0	0	0	0	0	0	0	0	0
<b>102.5</b>	0	0	0	0	0	0	0	0	0	0
<b>105.0</b>	0	0	0	0	0	0	0	0	0	0
<b>107.5</b>	0	0	0	0	0	0	0	0	0	0
<b>110.0</b>	0	0	0	0	0	0	0	0	0	0
<b>112.5</b>	0	0	0	0	0	0	0	0	0	0
<b>115.0</b>	0	0	0	0	0	0	0	0	0	0
<b>117.5</b>	0	0	0	0	0	0	0	0	0	0
<b>120.0</b>	0	0	0	0	0	0	0	0	0	0
<b>122.5</b>	0	0	0	0	0	0	0	0	0	0
<b>125.0</b>	0	0	0	0	0	0	0	0	0	0
<b>127.5</b>	0	0	0	0	0	0	0	0	0	0
<b>130.0</b>	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	2241	2241	2241	2241	2241	2241	2241	2241	2241	2241
2.5	2219	2219	2226	2241	2257	2273	2286	2291	2297	2307
5.0	2212	2224	2239	2267	2275	2297	2291	2281	2279	2267
7.5	2205	2227	2246	2285	2284	2257	2231	2191	2170	2155
10.0	2204	2233	2263	2290	2243	2189	2141	2096	2057	1978
12.5	2220	2271	2308	2303	2201	2122	2055	1817	1747	1699
15.0	2253	2324	2369	2326	2175	2057	1774	1657	1556	1469
17.5	2299	2368	2425	2341	2155	1809	1640	1451	1247	1095
20.0	2340	2407	2454	2324	2109	1700	1464	1112	860	721
22.5	2418	2481	2530	2327	1890	1588	1182	784	526	378
25.0	2535	2586	2608	2361	1848	1402	881	484	280	195
27.5	2680	2716	2704	2419	1811	1175	601	258	186	168
30.0	2715	2749	2717	2418	1755	953	388	202	169	149
32.5	2617	2643	2606	2195	1606	752	275	192	145	116
35.0	2536	2565	2527	2000	1370	594	287	173	126	108
37.5	2475	2534	2472	1888	1155	513	316	161	119	98
40.0	2402	2483	2422	1738	880	546	307	156	107	67
42.5	2315	2429	2375	1598	632	493	290	146	76	64
45.0	2263	2367	2298	1408	443	409	239	111	72	59
47.5	2180	2327	2258	1208	327	309	190	123	60	31
50.0	2138	2297	2233	1033	283	249	141	125	26	15
52.5	2139	2260	2160	854	264	207	135	76	16	5
55.0	2051	2049	1941	697	227	148	98	49	12	1
57.5	1935	1901	1764	558	213	135	44	19	9	0
60.0	1832	1776	1589	414	181	93	8	4	0	0
62.5	1571	1564	1323	326	126	41	5	1	0	0
65.0	1372	1323	1062	252	96	12	4	0	0	0
67.5	1222	1154	863	196	58	6	1	0	0	0
70.0	1034	944	648	153	22	5	0	0	0	0
72.5	772	687	434	106	10	4	0	0	0	0
75.0	586	494	268	58	9	3	0	0	0	0
77.5	369	315	149	20	7	2	0	0	0	0

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**CANDELA TABULATION - (Cont.)**

80.0	246	214	66	11	6	2	0	0	0	0
82.5	120	90	24	8	4	1	0	0	0	0
85.0	55	33	8	8	3	1	0	0	0	0
87.5	9	6	4	4	2	1	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	2241	2241
2.5	2301	2327
5.0	2259	2269
7.5	2138	2161
10.0	1920	1921
12.5	1672	1679
15.0	1395	1413
17.5	999	1009
20.0	624	634
22.5	325	330
25.0	181	183

IES ROAD REPORT  
PHOTOMETRIC FILENAME : XGBM-FTA-LED-LW-NW-HSS.IES

CANDELA TABULATION - (Cont.)

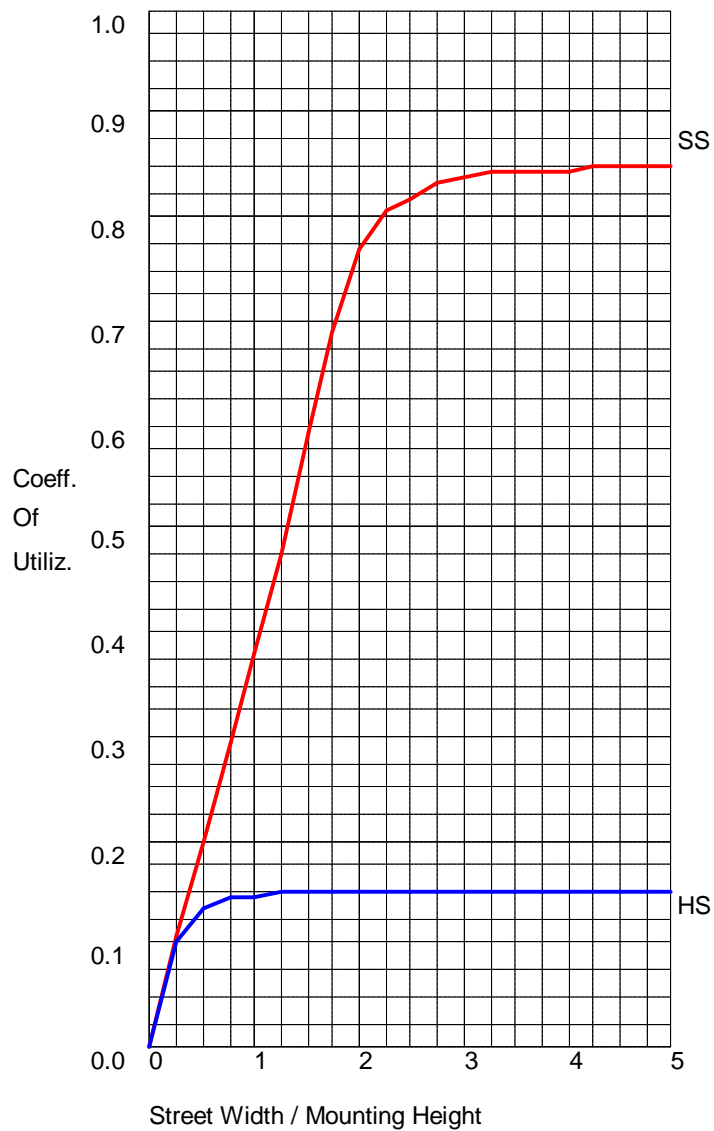
27.5	160	159
30.0	134	127
32.5	109	108
35.0	102	99
37.5	94	85
40.0	67	63
42.5	66	60
45.0	50	46
47.5	23	17
50.0	6	1
52.5	1	0
55.0	0	0
57.5	0	0
60.0	0	0
62.5	0	0
65.0	0	0
67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	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

**IES ROAD REPORT**  
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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>	0	0

COEFFICIENTS OF UTILIZATION

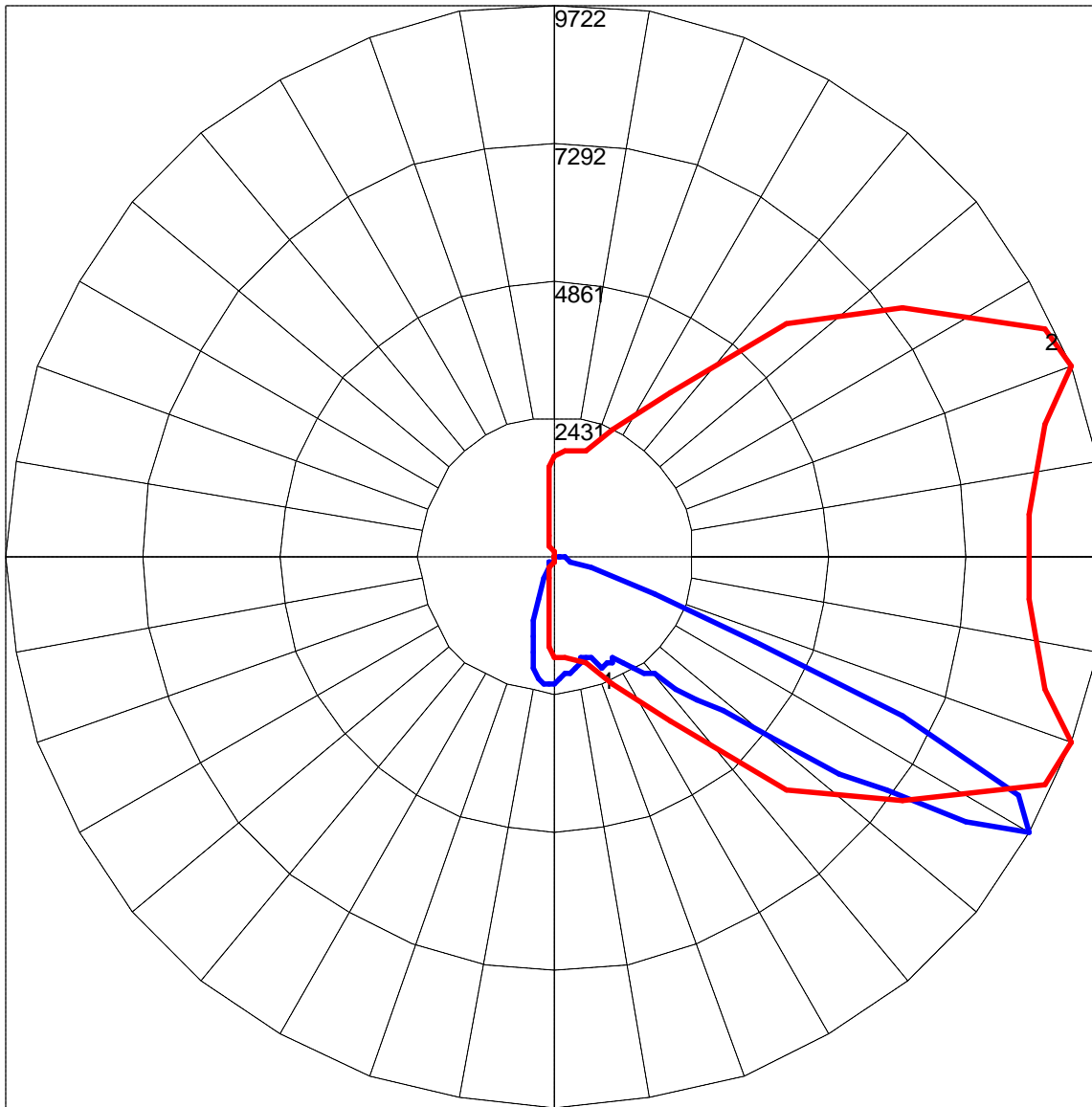


FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	7895.3	85.1
Downward House Side	1381.9	14.9
Downward Total	9277.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	9277.2	100.0

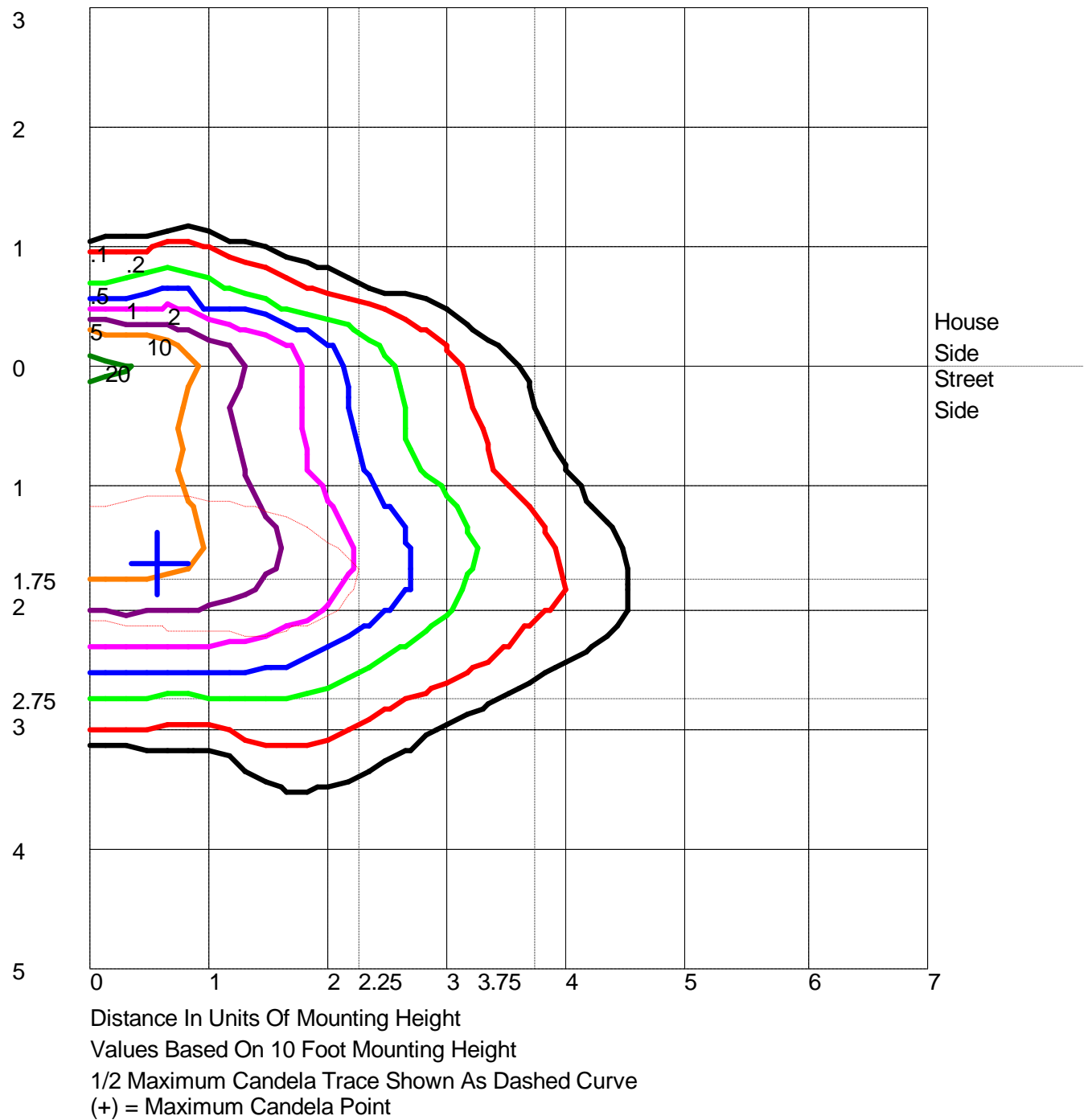


POLAR GRAPH

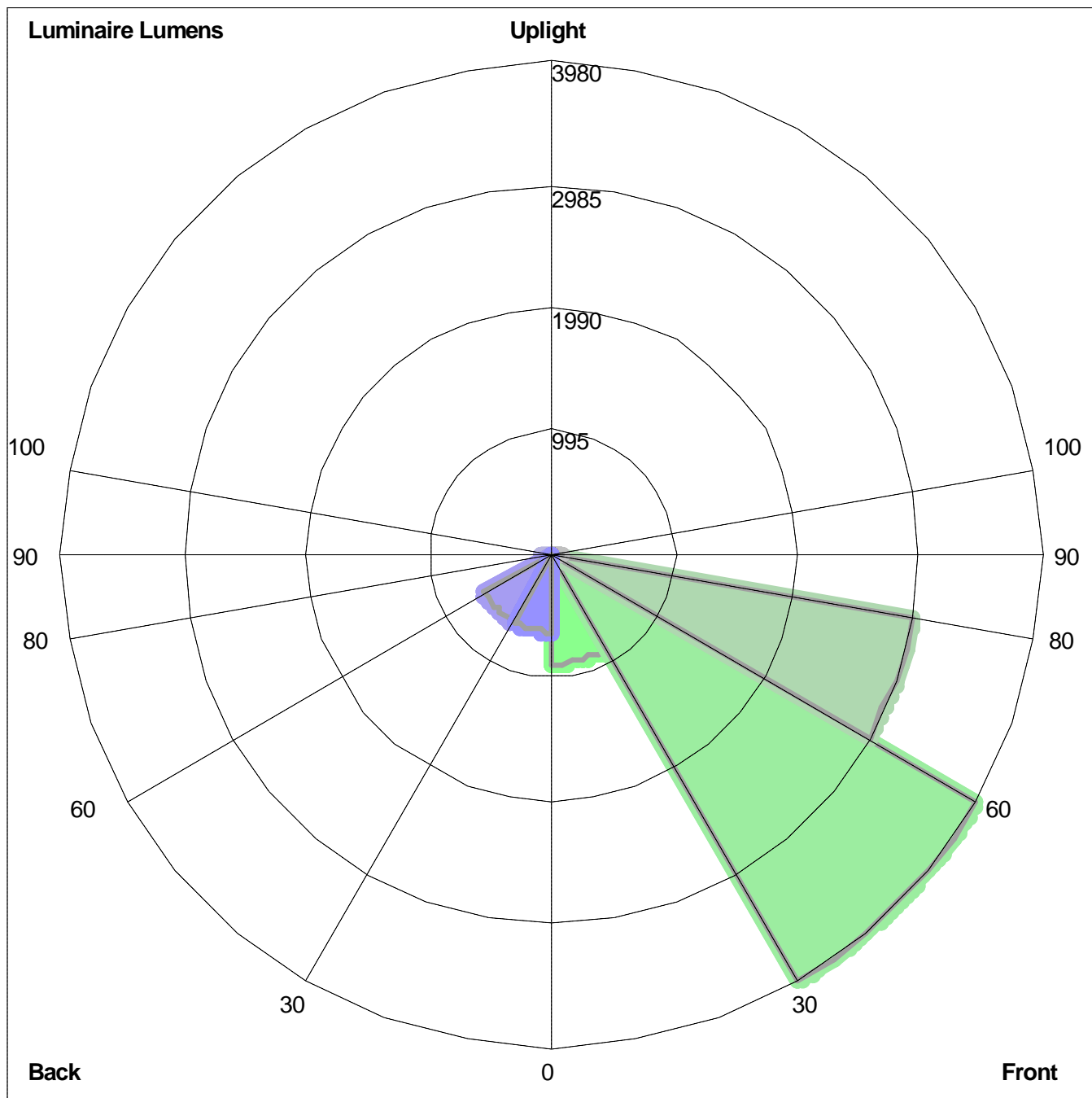


Maximum Candela = 9722 Located At Horizontal Angle = 20, Vertical Angle = 60  
# 1 - Vertical Plane Through Horizontal Angles (20 - 200) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=887.6, Medium=3980.2, High=2966.1, Very High=61.5  
Back: Low=630.7, Medium=638.6, High=110.3, Very High=2.3  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2