



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

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-5351  
[TESTLAB]LSI INDUSTRIES  
[ISSUE DATE]03/27/14  
[TEST DATE]03/27/14  
[MANUFACTURER]LSI INDUSTRIES  
[LUMEN CATEGORY]XGBM-FTA-LED-HO-NW  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08

**CHARACTERISTICS**

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25407
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	288.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	11465
Maximum Candela Angle	20H 62.5V
Maximum Candela (<90 Degrees Vertical)	11465
Maximum Candela Angle (<90 Degrees Vertical)	20H 62.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3040 (12.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3504.1	N.A.	13.8
FM - Front-Medium (30-60)	9346.5	N.A.	36.8
FH - Front-High (60-80)	6469.0	N.A.	25.5
FVH - Front-Very High (80-90)	329.3	N.A.	1.3
BL - Back-Low (0-30)	2387.3	N.A.	9.4
BM - Back-Medium (30-60)	2691.4	N.A.	10.6
BH - Back-High (60-80)	654.4	N.A.	2.6
BVH - Back-Very High (80-90)	24.9	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	25406.9	N.A.	100.0
BUG Rating	B3-U0-G3		

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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>	8160	8160	8160	8160	8160	8160	8160	8160	8160	8160
<b>2.5</b>	8308	8379	8348	8347	8325	8274	8240	8191	8155	8141
<b>5.0</b>	8670	8757	8721	8701	8670	8591	8500	8390	8294	8221
<b>7.5</b>	8918	9005	8974	8961	8931	8866	8771	8626	8478	8318
<b>10.0</b>	8968	9068	9063	9074	9077	9040	8954	8839	8667	8428
<b>12.5</b>	8652	8772	8801	8855	8908	9005	9074	9024	8868	8602
<b>15.0</b>	8073	8205	8271	8372	8467	8742	8980	9175	9084	8888
<b>17.5</b>	7518	7605	7696	7813	7918	8248	8729	9167	9352	9205
<b>20.0</b>	7127	7199	7274	7349	7435	7772	8349	9071	9598	9528
<b>22.5</b>	6780	6824	6900	6974	7070	7383	7978	8878	9792	9872
<b>25.0</b>	6557	6611	6655	6701	6758	7048	7563	8557	9837	10295
<b>27.5</b>	6464	6518	6542	6566	6594	6795	7237	8118	9771	10695
<b>30.0</b>	6540	6603	6565	6531	6524	6671	6963	7824	9559	10895
<b>32.5</b>	6707	6761	6713	6652	6618	6625	6921	7689	9167	10675
<b>35.0</b>	6915	6953	6902	6855	6813	6822	6998	7560	8539	10213
<b>37.5</b>	7303	7356	7213	7134	7073	7184	7191	7381	8016	9725
<b>40.0</b>	7572	7633	7554	7504	7489	7642	7465	7236	7635	9191
<b>42.5</b>	7881	7890	7767	7729	7826	8159	7740	7077	7207	8465
<b>45.0</b>	8257	8270	8147	8124	8233	8457	7945	7059	6821	7863
<b>47.5</b>	8695	8706	8558	8634	8863	8710	8169	7122	6573	7365
<b>50.0</b>	9204	9251	9075	9282	9533	9110	8240	7196	6423	6921
<b>52.5</b>	9626	9682	9699	10086	10209	9377	8398	7390	6410	6635
<b>55.0</b>	9239	9299	9585	10330	10760	9740	8622	7609	6506	6416
<b>57.5</b>	9220	9290	9374	10091	10298	10111	8977	7642	6555	6161
<b>60.0</b>	9928	10007	10153	10629	10273	9709	9421	7666	6328	5801
<b>62.5</b>	10189	10253	10882	11465	11019	9596	9282	7560	6138	5414
<b>65.0</b>	8954	9110	10075	10918	10998	10185	9031	7566	5631	4862
<b>67.5</b>	8436	8486	9059	9407	9435	10009	8902	7069	5219	4391
<b>70.0</b>	8168	8239	8836	9010	9010	8718	8183	6239	5024	3794
<b>72.5</b>	7136	7190	7896	8296	8874	8512	6698	5696	4523	3197
<b>75.0</b>	5199	5260	5936	6624	7536	7490	6029	4777	3782	2551
<b>77.5</b>	3046	3078	3436	4170	4801	5118	4769	4084	3137	1967
<b>80.0</b>	1448	1463	1673	1971	2381	2642	2849	3040	2271	1754
<b>82.5</b>	596	643	654	730	791	971	1159	1498	1446	1124
<b>85.0</b>	186	202	226	252	252	329	348	412	514	538
<b>87.5</b>	17	19	21	20	22	29	47	60	81	70
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>85</b></u>	<u><b>90</b></u>	<u><b>95</b></u>	<u><b>105</b></u>	<u><b>115</b></u>	<u><b>125</b></u>	<u><b>135</b></u>	<u><b>145</b></u>	<u><b>155</b></u>	<u><b>165</b></u>
<b>0.0</b>	8160	8160	8160	8160	8160	8160	8160	8160	8160	8160
<b>2.5</b>	8118	8091	8088	8072	8059	8064	8098	8091	8082	8111
<b>5.0</b>	8147	8094	8084	8033	7991	7953	7947	7892	7859	7870
<b>7.5</b>	8166	8105	8071	7989	7903	7813	7765	7698	7622	7610
<b>10.0</b>	8199	8125	8076	7954	7807	7685	7579	7434	7306	7250
<b>12.5</b>	8299	8193	8115	7933	7726	7530	7338	7073	6862	6723
<b>15.0</b>	8504	8355	8243	7942	7647	7357	7028	6551	6176	5861
<b>17.5</b>	8733	8544	8367	7974	7578	7112	6602	5772	5106	4624
<b>20.0</b>	8969	8698	8448	7976	7491	6862	5909	4741	3837	3262
<b>22.5</b>	9173	8854	8528	7952	7390	6505	5081	3612	2562	2061
<b>25.0</b>	9496	9046	8668	7981	7220	5975	4192	2596	1627	1229
<b>27.5</b>	9811	9283	8848	8067	7010	5282	3396	1871	1110	869

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**CANDELA TABULATION - (Cont.)**

30.0	10046	9425	8952	8105	6689	4469	2717	1527	899	752
32.5	9993	9302	8804	7939	6172	3643	2232	1479	857	692
35.0	9883	9160	8599	7609	5369	3010	1932	1577	848	637
37.5	9771	8996	8462	7272	4432	2453	1784	1576	798	591
40.0	9463	8736	8249	6813	3576	1966	1737	1345	763	569
42.5	9020	8433	8040	6249	2720	1649	1570	1005	786	568
45.0	8778	8175	7777	5621	1948	1430	1386	945	859	550
47.5	8550	7968	7601	4977	1445	1182	1275	963	831	486
50.0	8352	7850	7450	4337	1197	994	1132	967	677	368
52.5	8248	7795	7344	3732	1095	860	1041	855	578	256
55.0	7841	7482	7018	3199	1091	765	928	590	525	235
57.5	7478	7120	6547	2736	1070	729	675	356	466	251
60.0	6953	6651	6011	2323	1019	690	389	274	321	237
62.5	6199	6006	5240	1861	933	560	291	254	233	199
65.0	5215	5174	4399	1452	807	402	285	237	197	151
67.5	4467	4522	3720	1197	675	341	255	190	174	110
70.0	3861	4000	3041	1061	484	292	214	160	122	87
72.5	3062	3063	2192	884	327	231	179	129	95	67
75.0	2074	2192	1516	669	252	166	142	92	51	50
77.5	1335	1467	920	363	187	123	115	73	31	31
80.0	1017	1037	527	195	126	111	86	42	20	16
82.5	563	497	221	136	84	76	44	22	12	9
85.0	264	213	66	78	34	32	10	8	6	3
87.5	51	22	11	22	7	6	5	3	1	0
90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

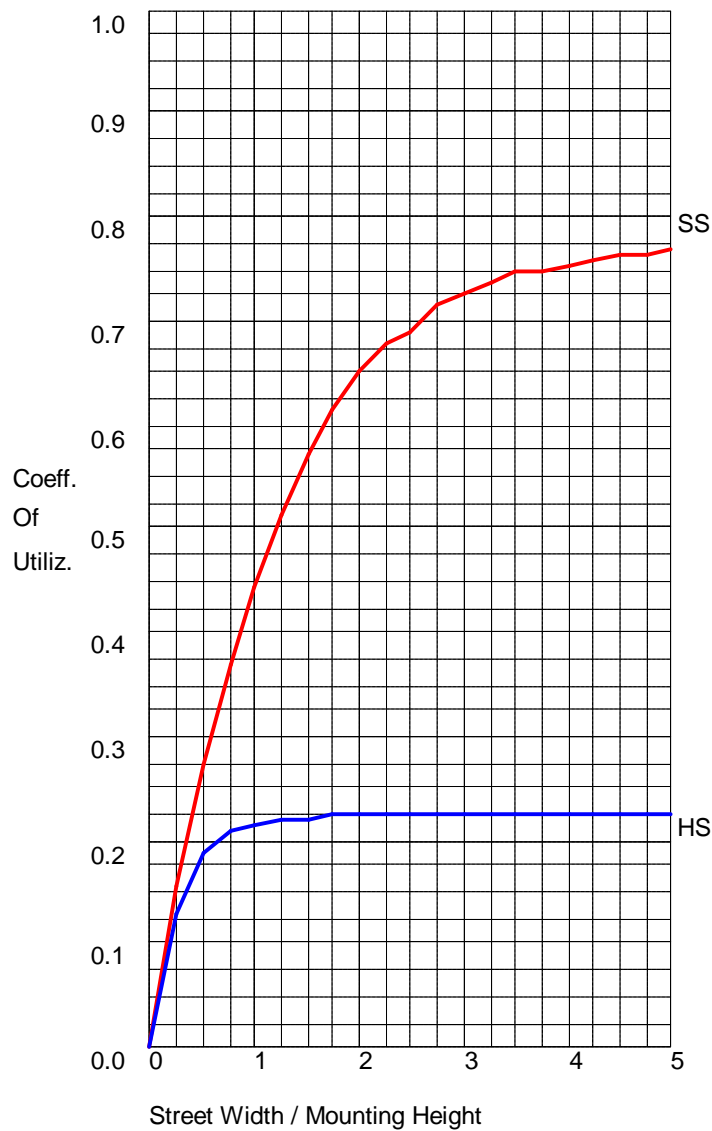
	<b>175</b>	<b>180</b>
0.0	8160	8160
2.5	8107	8201
5.0	7858	7927
7.5	7588	7652
10.0	7197	7267
12.5	6614	6614
15.0	5662	5601
17.5	4268	4260
20.0	2878	2855
22.5	1745	1722
25.0	1080	1062
27.5	804	794
30.0	705	696
32.5	650	636
35.0	613	586
37.5	586	551
40.0	571	541
42.5	563	536
45.0	539	493
47.5	455	396
50.0	319	263
52.5	232	190
55.0	224	189
57.5	213	186
60.0	190	167
62.5	149	139
65.0	120	116

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	94	88
<b>70.0</b>	72	68
<b>72.5</b>	51	48
<b>75.0</b>	35	32
<b>77.5</b>	23	22
<b>80.0</b>	14	14
<b>82.5</b>	8	7
<b>85.0</b>	2	1
<b>87.5</b>	0	0
<b>90.0</b>	0	0

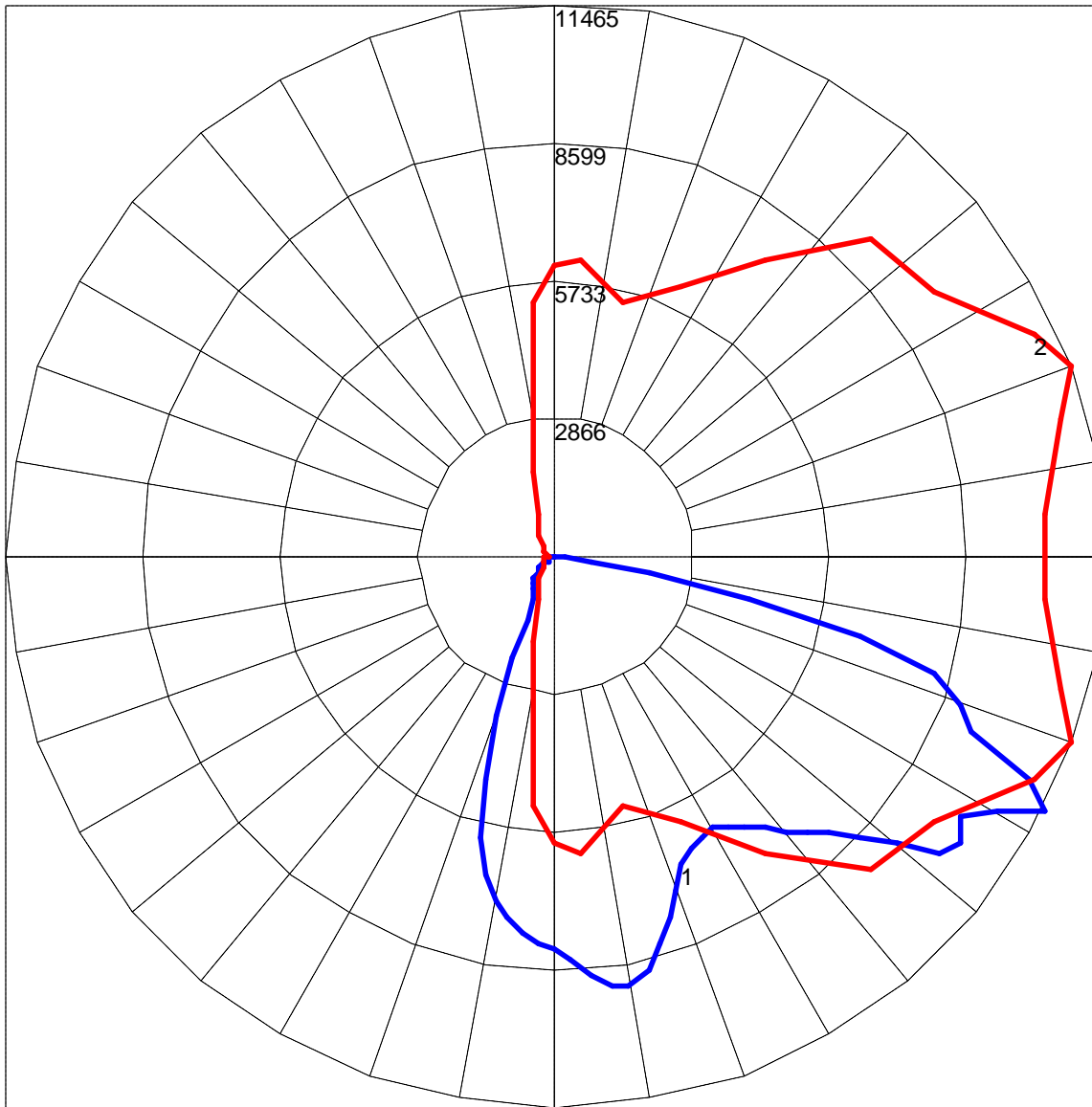
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

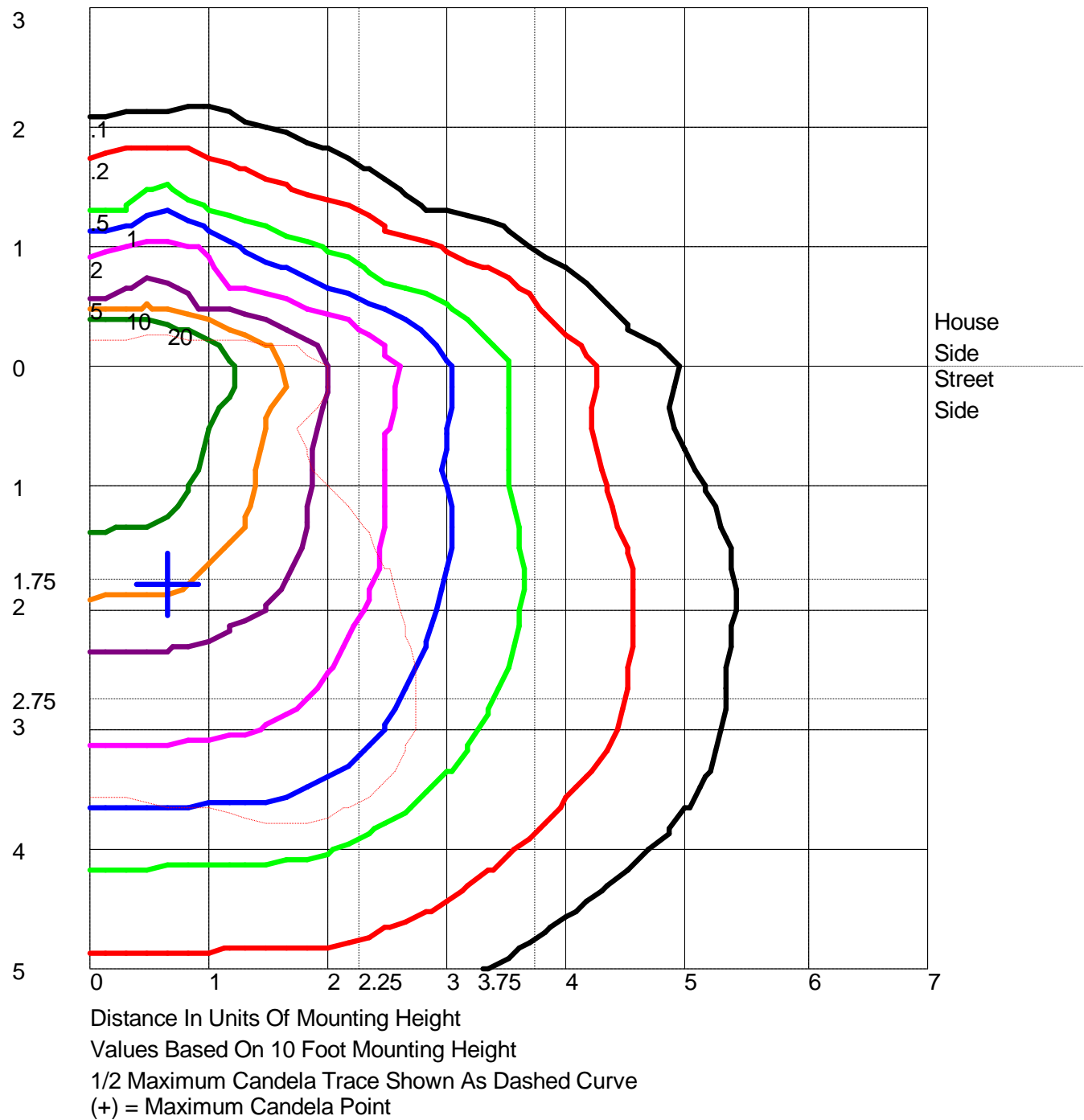
	Lumens	Percent Of Luminaire
Downward Street Side	19648.8	77.3
Downward House Side	5757.9	22.7
Downward Total	25406.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	25406.7	100.0

POLAR GRAPH



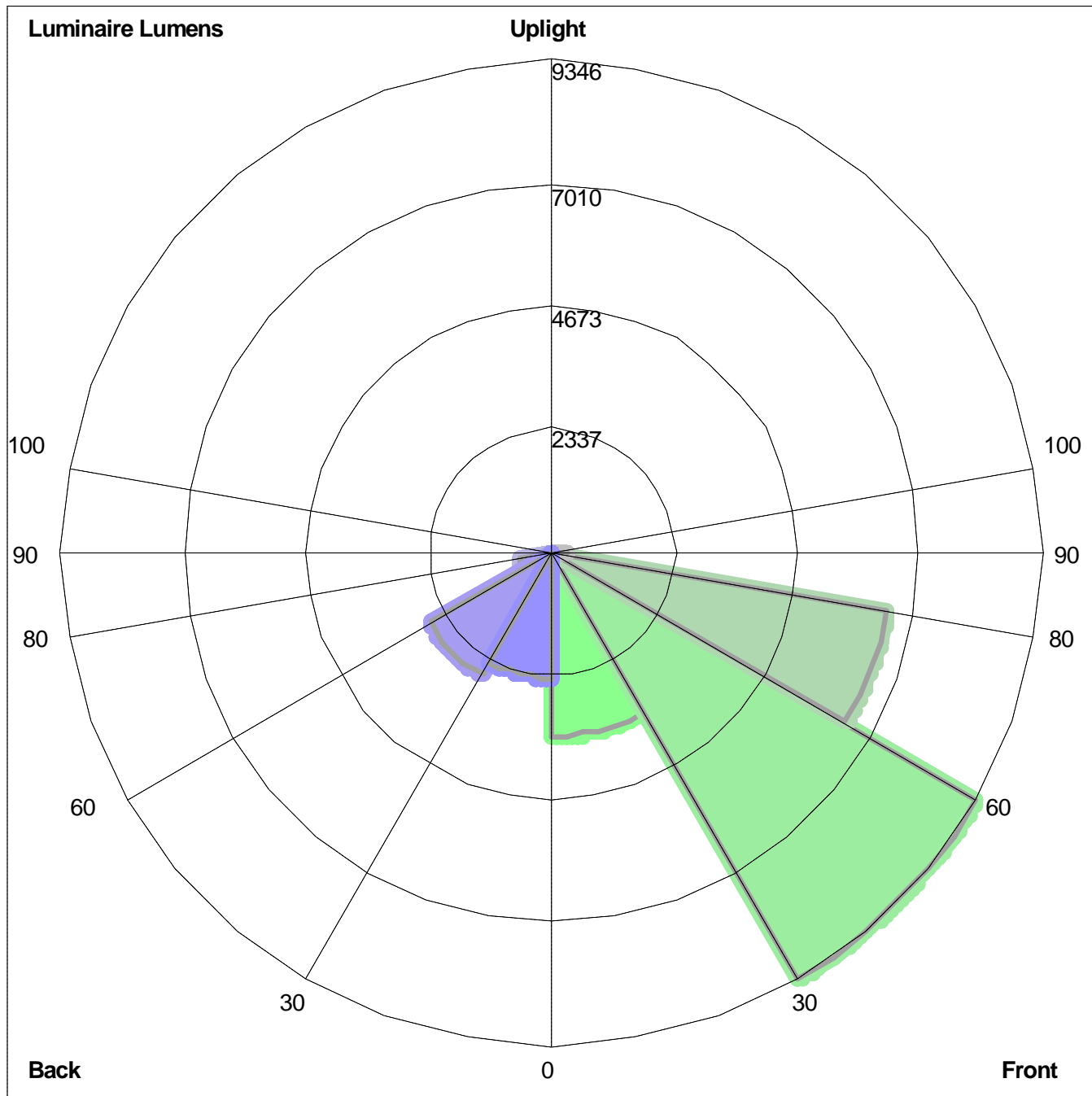
Maximum Candela = 11465 Located At Horizontal Angle = 20, Vertical Angle = 62.5  
# 1 - Vertical Plane Through Horizontal Angles (20 - 200) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=3504.1, Medium=9346.5, High= 6469.0, Very High=329.3  
Back: Low=2387.3, Medium=2691.4, High=654.4, Very High=24.9  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3