



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : GSQ-02L-FT-50.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-12867  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 08/26/2021  
[TEST DATE] 07/30/21  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] GSQ-02L-FT-50  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] OUTDOOR  
[SEARCH\_COLORTEMP] 5000

**CHARACTERISTICS**

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2385
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	18
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1107
Maximum Candela Angle	0H 30V
Maximum Candela (<90 Degrees Vertical)	1107
Maximum Candela Angle (<90 Degrees Vertical)	0H 30V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	92 (3.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	420.0	N.A.	17.6
FM - Front-Medium (30-60)	931.5	N.A.	39.1
FH - Front-High (60-80)	305.0	N.A.	12.8
FVH - Front-Very High (80-90)	13.5	N.A.	0.6
BL - Back-Low (0-30)	298.9	N.A.	12.5
BM - Back-Medium (30-60)	349.9	N.A.	14.7
BH - Back-High (60-80)	63.1	N.A.	2.6
BVH - Back-Very High (80-90)	3.2	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	2385.1	N.A.	100.0
BUG Rating	B1-U0-G1		

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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>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>	<u><b>85</b></u>
<b>0.0</b>	895	895	895	895	895	895	895	895	895	895
<b>2.5</b>	894	894	898	900	903	907	909	911	910	911
<b>5.0</b>	922	922	925	923	923	924	924	922	919	917
<b>7.5</b>	959	959	962	962	963	959	950	939	929	923
<b>10.0</b>	982	982	987	993	995	995	982	958	936	923
<b>12.5</b>	996	997	1002	1007	1009	1011	997	966	935	913
<b>15.0</b>	1024	1023	1024	1026	1020	1013	999	972	935	909
<b>17.5</b>	1049	1048	1049	1049	1034	1010	993	972	940	904
<b>20.0</b>	1068	1067	1066	1067	1046	1018	996	976	939	895
<b>22.5</b>	1079	1077	1080	1079	1056	1030	1003	976	940	886
<b>25.0</b>	1093	1091	1094	1084	1059	1038	1007	971	935	874
<b>27.5</b>	1100	1100	1103	1092	1064	1041	1006	960	923	859
<b>30.0</b>	1107	1102	1103	1088	1062	1034	994	945	903	838
<b>32.5</b>	1104	1101	1099	1078	1056	1026	980	929	875	811
<b>35.0</b>	1096	1093	1087	1067	1044	1012	961	907	852	782
<b>37.5</b>	1081	1079	1071	1055	1026	986	938	883	819	752
<b>40.0</b>	1059	1056	1050	1031	1004	960	911	853	785	715
<b>42.5</b>	1032	1026	1020	1000	973	930	875	816	746	677
<b>45.0</b>	998	994	985	963	934	895	840	777	705	635
<b>47.5</b>	956	950	944	923	893	852	798	737	663	592
<b>50.0</b>	910	904	896	875	848	803	754	691	618	547
<b>52.5</b>	854	853	846	824	793	752	699	639	569	502
<b>55.0</b>	797	795	788	769	736	696	644	584	519	454
<b>57.5</b>	734	734	726	707	677	637	588	531	470	407
<b>60.0</b>	663	661	654	642	612	573	530	479	419	360
<b>62.5</b>	588	586	582	565	542	511	471	424	369	313
<b>65.0</b>	511	510	503	492	474	446	412	370	320	269
<b>67.5</b>	432	430	425	417	401	381	353	317	271	226
<b>70.0</b>	355	354	349	343	331	318	295	266	226	187
<b>72.5</b>	280	276	276	273	265	253	239	214	183	151
<b>75.0</b>	204	207	208	206	202	195	184	168	143	117
<b>77.5</b>	141	141	146	145	144	141	132	121	106	86
<b>80.0</b>	86	86	88	91	90	92	88	81	70	59
<b>82.5</b>	39	39	41	44	47	49	50	47	42	34
<b>85.0</b>	6	6	7	8	13	17	19	20	18	14
<b>87.5</b>	0	0	0	0	0	0	1	2	3	2
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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>	<u><b>175</b></u>
<b>0.0</b>	895	895	895	895	895	895	895	895	895	895
<b>2.5</b>	911	911	905	900	895	887	882	875	869	867
<b>5.0</b>	915	913	903	893	883	871	859	851	843	841
<b>7.5</b>	919	914	898	884	870	855	841	824	813	807
<b>10.0</b>	915	906	885	869	852	830	811	794	781	775
<b>12.5</b>	904	894	867	845	822	798	778	761	749	738
<b>15.0</b>	897	884	852	824	795	763	742	726	715	703
<b>17.5</b>	892	876	842	804	769	735	709	690	668	654
<b>20.0</b>	882	866	824	784	745	705	669	640	623	611
<b>22.5</b>	869	849	805	755	712	666	626	596	578	564
<b>25.0</b>	854	828	778	723	676	623	585	552	533	517
<b>27.5</b>	833	806	750	690	639	580	540	507	484	471

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**CANDELA TABULATION - (Cont.)**

30.0	811	781	720	658	598	540	494	461	438	424
32.5	783	751	684	620	551	495	448	413	388	372
35.0	751	718	647	578	508	451	403	366	340	323
37.5	718	680	608	534	461	403	356	319	290	276
40.0	680	642	568	490	418	359	312	274	246	233
42.5	636	601	528	445	374	315	265	228	206	194
45.0	594	558	484	400	331	272	223	191	172	161
47.5	552	517	438	358	291	231	187	159	140	132
50.0	508	471	394	318	252	195	155	130	113	106
52.5	461	426	352	275	214	162	128	104	90	83
55.0	415	383	311	238	180	134	103	83	72	66
57.5	372	340	270	204	151	110	83	67	57	52
60.0	328	298	233	173	124	89	66	53	45	42
62.5	284	258	198	145	101	71	53	42	37	34
65.0	242	219	168	120	82	57	42	34	30	29
67.5	204	183	138	98	66	46	34	28	26	25
70.0	169	149	111	78	52	35	27	23	22	21
72.5	135	120	88	61	39	28	21	19	18	18
75.0	105	93	68	44	30	21	16	15	15	15
77.5	77	68	49	30	21	14	12	11	11	11
80.0	53	46	32	20	13	9	8	8	8	8
82.5	31	27	18	11	7	5	5	5	5	5
85.0	13	12	8	5	3	2	2	2	3	3
87.5	2	2	2	1	1	1	1	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

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

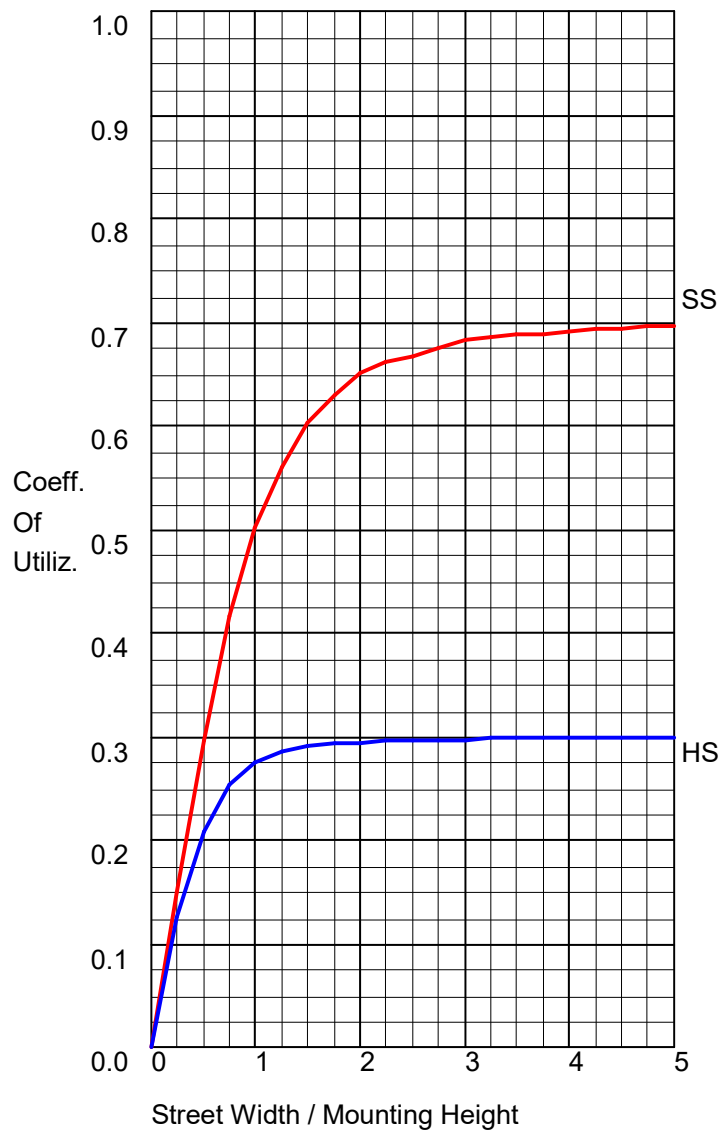
	<b>180</b>
0.0	895
2.5	866
5.0	840
7.5	807
10.0	774
12.5	737
15.0	701
17.5	650
20.0	609
22.5	563
25.0	515
27.5	464
30.0	419
32.5	370
35.0	321
37.5	275
40.0	231
42.5	193
45.0	160
47.5	131
50.0	105
52.5	83
55.0	64
57.5	51
60.0	41
62.5	34
65.0	29

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	25
<b>70.0</b>	21
<b>72.5</b>	18
<b>75.0</b>	15
<b>77.5</b>	11
<b>80.0</b>	8
<b>82.5</b>	5
<b>85.0</b>	3
<b>87.5</b>	0
<b>90.0</b>	0

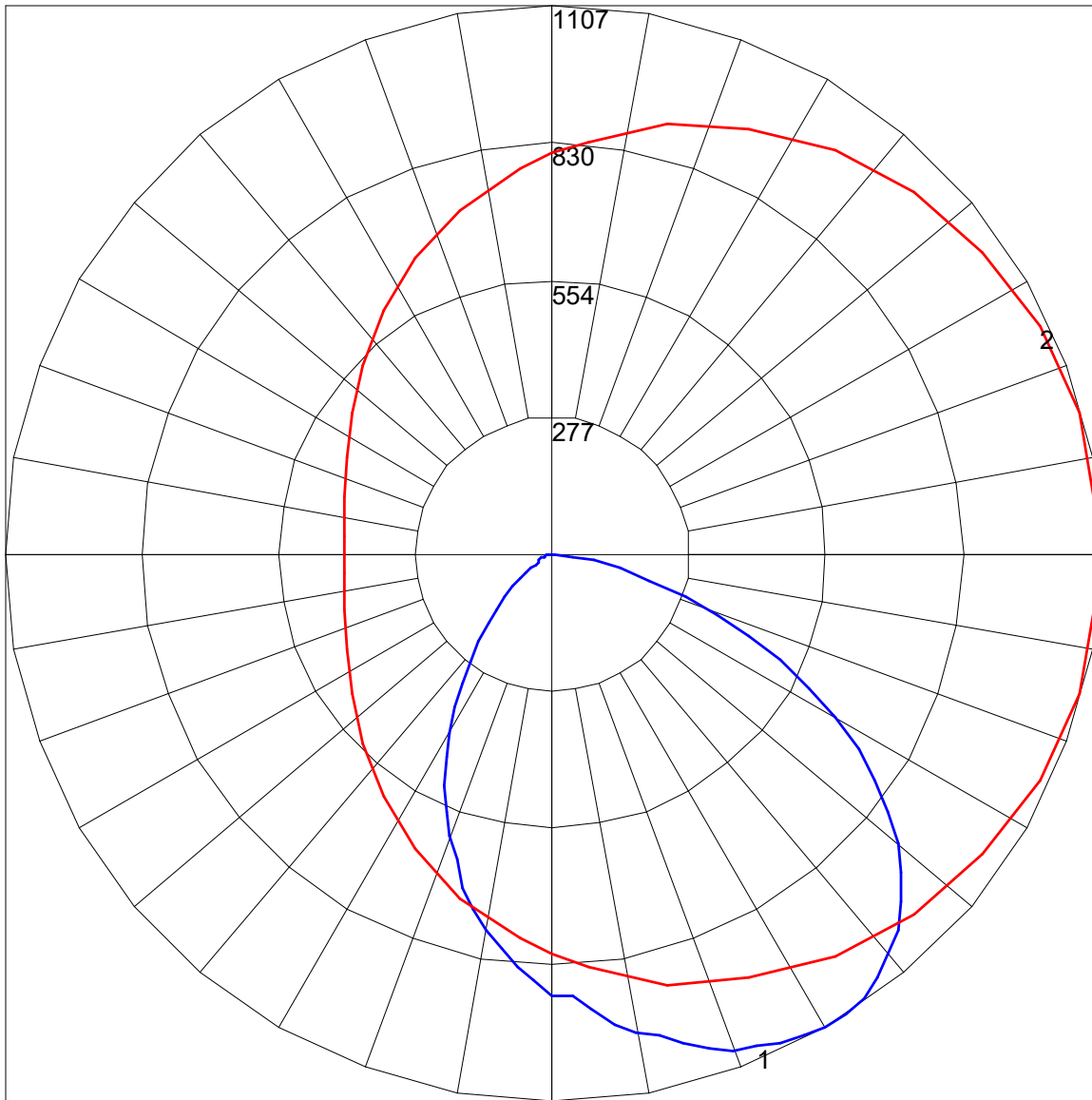
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

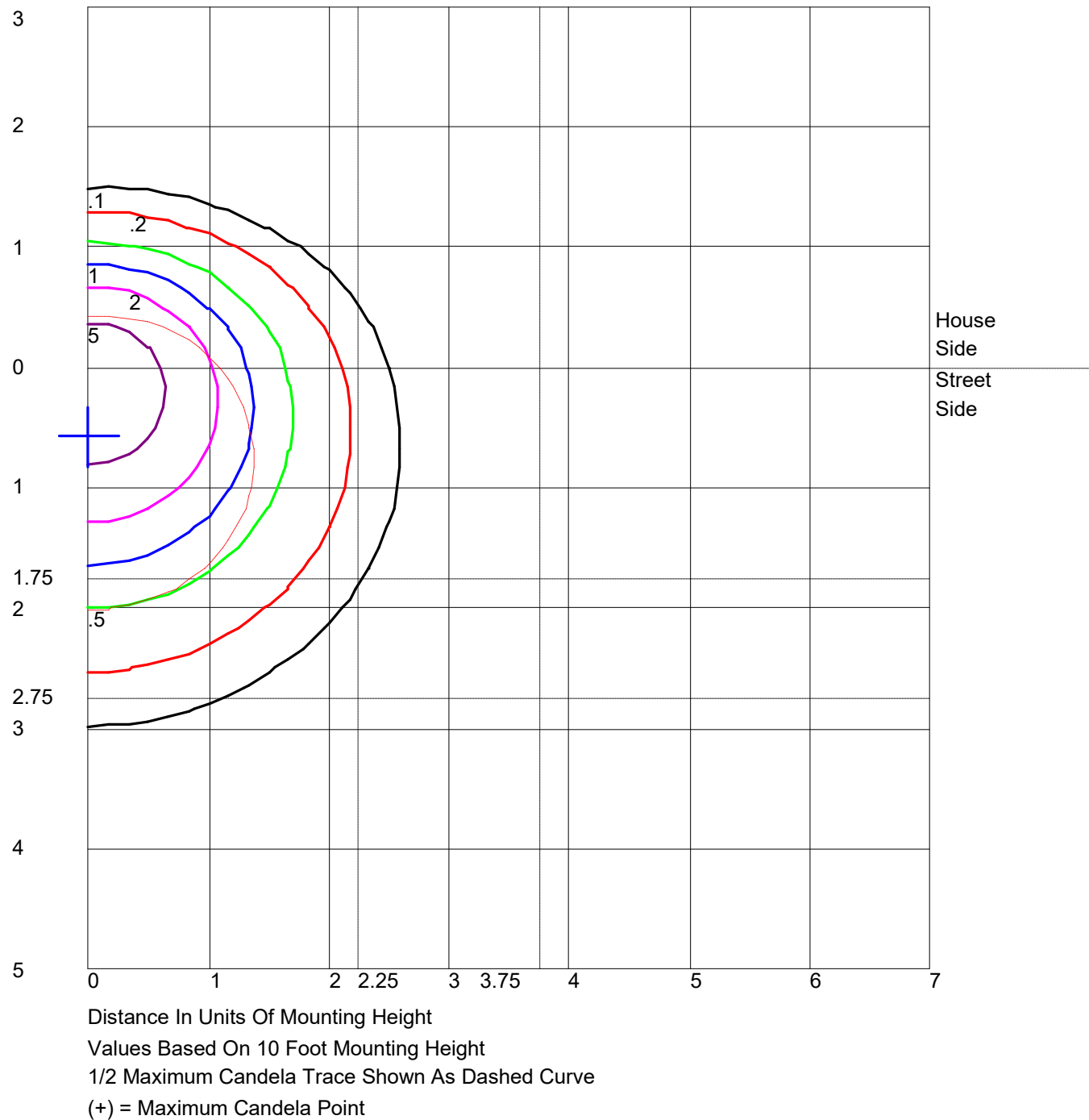
	Lumens	Percent Of Luminaire
Downward Street Side	1669.9	70.0
Downward House Side	715.2	30.0
Downward Total	2385.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	2385.1	100.0

POLAR GRAPH



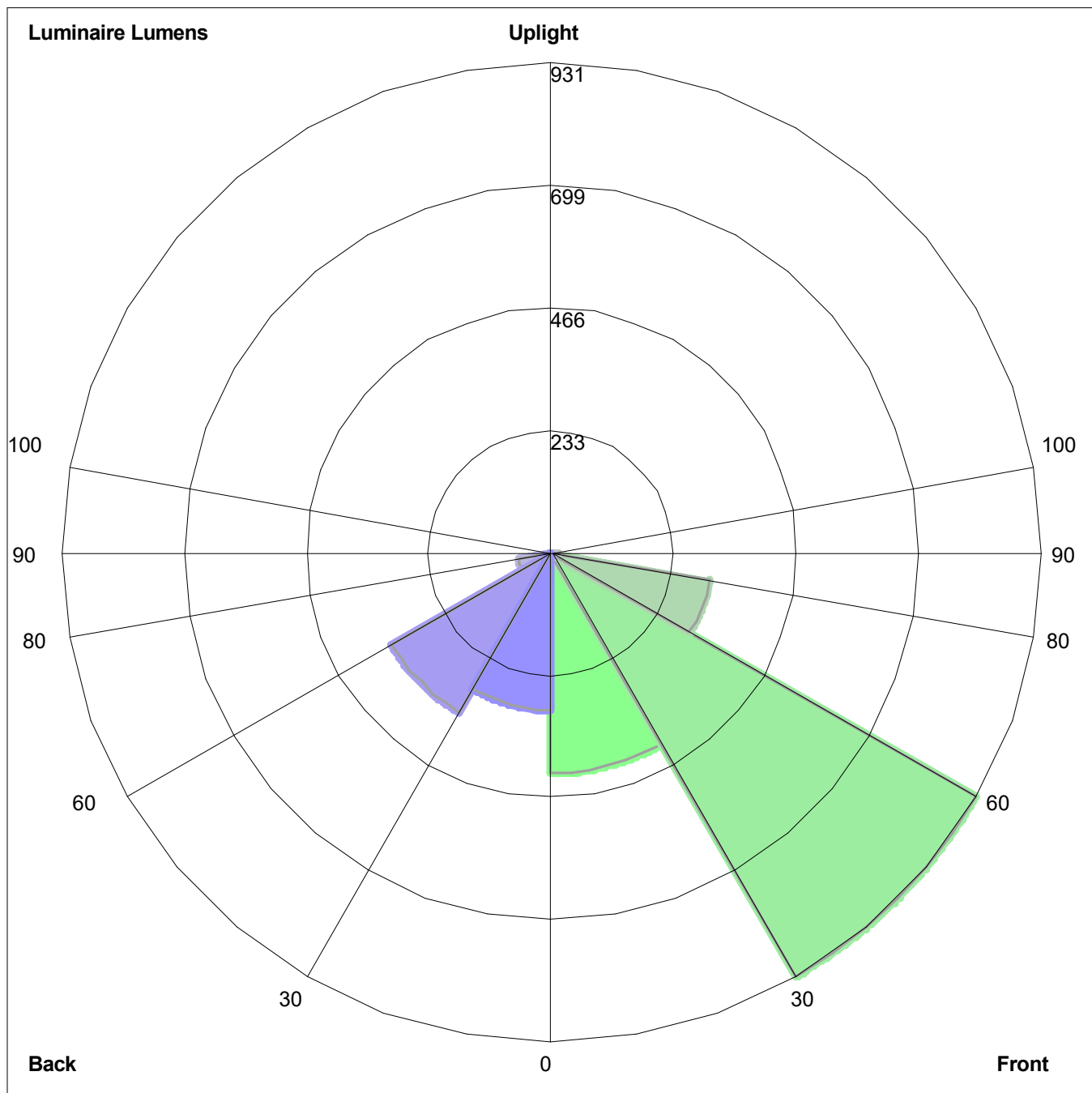
Maximum Candela = 1107 Located At Horizontal Angle = 0, Vertical Angle = 30  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=420.0, Medium=931.5, High=305.0, Very High=13.5  
Back: Low=298.9, Medium=349.9, High=63.1, Very High=3.2  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1