



IES ROAD REPORT
PHOTOMETRIC FILENAME : GSQ-08L-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-08L-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	7771
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	66
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3606
Maximum Candela Angle	0H 30V
Maximum Candela (<90 Degrees Vertical)	3606
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	301 (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)	1368.6	N.A.	17.6
FM - Front-Medium (30-60)	3035.0	N.A.	39.1
FH - Front-High (60-80)	993.4	N.A.	12.8
FVH - Front-Very High (80-90)	44.0	N.A.	0.6
BL - Back-Low (0-30)	973.9	N.A.	12.5
BM - Back-Medium (30-60)	1140.3	N.A.	14.7
BH - Back-High (60-80)	205.4	N.A.	2.6
BVH - Back-Very High (80-90)	10.6	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	7771.2	N.A.	100.0
BUG Rating	B2-U0-G1		

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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>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
0.0	2917	2917	2917	2917	2917	2917	2917	2917	2917	2917
2.5	2912	2914	2927	2934	2943	2957	2963	2968	2965	2968
5.0	3003	3005	3013	3008	3006	3012	3011	3005	2995	2988
7.5	3123	3126	3135	3133	3137	3126	3094	3058	3026	3009
10.0	3200	3200	3216	3237	3242	3241	3200	3120	3051	3006
12.5	3247	3249	3266	3283	3288	3294	3250	3146	3045	2974
15.0	3337	3332	3337	3344	3324	3302	3254	3166	3045	2961
17.5	3419	3414	3419	3417	3369	3290	3236	3168	3062	2947
20.0	3481	3477	3472	3476	3408	3317	3247	3182	3060	2915
22.5	3517	3511	3520	3517	3439	3357	3268	3180	3063	2888
25.0	3562	3555	3566	3533	3451	3382	3281	3162	3048	2849
27.5	3583	3584	3593	3559	3466	3392	3277	3128	3008	2799
30.0	3606	3591	3595	3546	3459	3370	3238	3078	2941	2728
32.5	3596	3587	3582	3514	3442	3344	3195	3026	2850	2642
35.0	3571	3562	3541	3475	3403	3296	3132	2955	2774	2550
37.5	3524	3516	3489	3437	3344	3214	3057	2877	2669	2450
40.0	3451	3439	3422	3358	3273	3127	2968	2779	2559	2330
42.5	3363	3342	3325	3258	3171	3029	2852	2658	2432	2206
45.0	3251	3238	3211	3139	3044	2915	2734	2531	2296	2070
47.5	3115	3096	3075	3009	2910	2777	2601	2401	2159	1929
50.0	2966	2945	2921	2853	2761	2617	2455	2251	2014	1781
52.5	2783	2780	2753	2686	2583	2449	2277	2081	1854	1634
55.0	2598	2592	2568	2505	2399	2268	2099	1903	1691	1480
57.5	2391	2391	2366	2304	2205	2074	1915	1731	1533	1325
60.0	2160	2154	2132	2091	1995	1867	1726	1560	1364	1174
62.5	1917	1909	1896	1843	1765	1661	1536	1381	1203	1019
65.0	1663	1657	1637	1602	1546	1452	1343	1207	1044	878
67.5	1406	1401	1385	1358	1307	1242	1151	1034	883	736
70.0	1155	1152	1137	1118	1079	1035	962	867	736	610
72.5	912	900	901	889	863	824	780	697	597	491
75.0	665	675	677	672	657	635	599	543	466	382
77.5	459	460	474	473	468	458	430	393	344	281
80.0	280	280	286	298	293	301	287	265	229	192
82.5	127	128	134	143	152	159	161	153	135	111
85.0	18	19	24	27	42	55	63	65	59	47
87.5	0	0	1	1	1	1	3	6	9	8
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles Horizontal Angles

	<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>	<u>175</u>
0.0	2917	2917	2917	2917	2917	2917	2917	2917	2917	2917
2.5	2968	2967	2948	2932	2915	2892	2873	2851	2830	2823
5.0	2983	2975	2944	2911	2878	2836	2800	2768	2744	2736
7.5	2995	2979	2927	2880	2834	2784	2738	2686	2649	2630
10.0	2981	2953	2884	2831	2775	2703	2642	2589	2545	2525
12.5	2945	2912	2823	2751	2679	2599	2537	2478	2441	2405
15.0	2924	2880	2775	2686	2591	2487	2418	2367	2330	2290
17.5	2906	2856	2741	2620	2504	2395	2311	2247	2176	2129
20.0	2873	2820	2685	2555	2427	2296	2181	2086	2029	1991
22.5	2830	2764	2623	2460	2321	2170	2041	1941	1885	1837
25.0	2783	2699	2537	2356	2203	2029	1905	1799	1736	1686
27.5	2715	2626	2442	2249	2082	1890	1758	1650	1578	1536

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CANDELA TABULATION - (Cont.)

30.0	2643	2546	2346	2143	1948	1758	1609	1500	1426	1381
32.5	2552	2446	2228	2021	1796	1614	1461	1347	1266	1212
35.0	2447	2340	2108	1884	1651	1468	1314	1192	1106	1052
37.5	2338	2216	1980	1741	1502	1312	1161	1038	946	900
40.0	2215	2091	1850	1598	1363	1168	1015	894	800	758
42.5	2073	1959	1721	1449	1220	1026	864	743	671	632
45.0	1935	1819	1578	1305	1079	888	727	621	560	525
47.5	1797	1683	1428	1167	949	751	610	517	457	430
50.0	1651	1536	1285	1037	820	634	507	423	369	345
52.5	1501	1389	1148	896	696	529	416	340	294	271
55.0	1353	1248	1014	775	588	437	337	272	235	215
57.5	1211	1107	880	664	491	359	272	218	186	171
60.0	1067	971	758	565	403	290	217	174	146	135
62.5	925	842	646	471	330	231	172	137	119	111
65.0	787	712	545	390	267	186	137	110	99	94
67.5	664	598	450	318	214	148	109	91	84	81
70.0	548	486	363	254	169	115	87	75	71	69
72.5	439	390	288	198	128	90	69	62	59	58
75.0	341	302	221	142	96	67	53	50	48	48
77.5	250	222	160	99	67	47	39	37	37	37
80.0	172	151	105	64	42	30	27	26	26	26
82.5	102	88	60	36	23	17	16	16	17	17
85.0	43	40	25	15	9	8	8	8	9	9
87.5	8	7	5	3	2	2	2	1	1	1
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

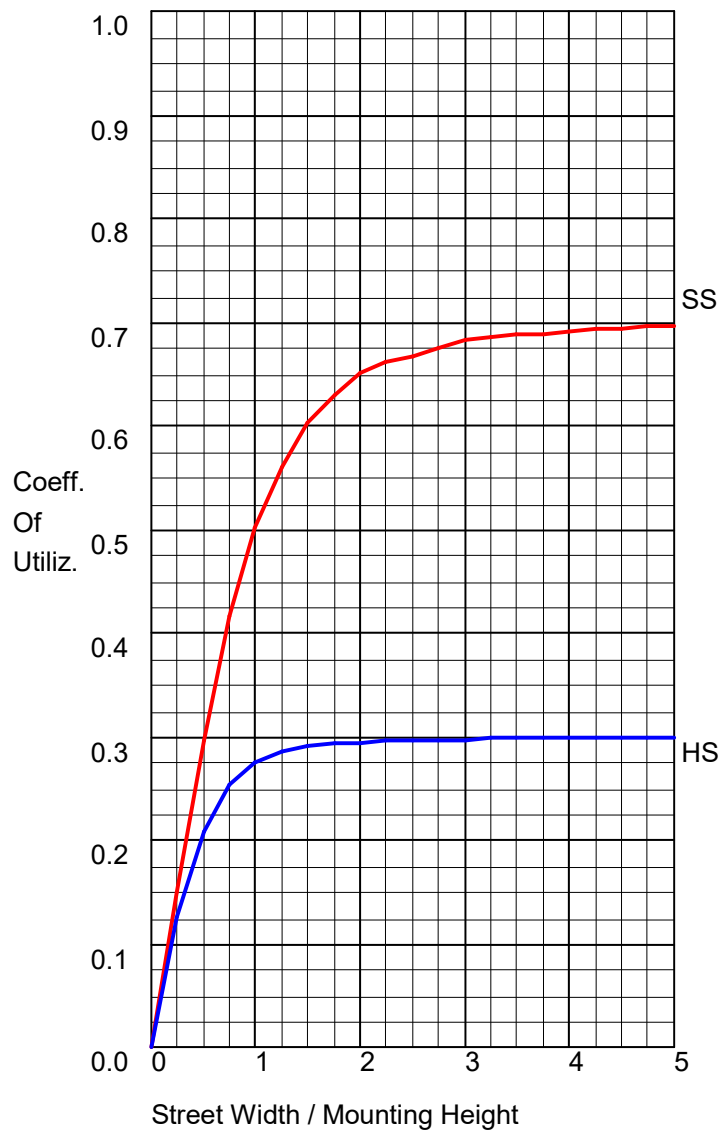
	180
0.0	2917
2.5	2821
5.0	2734
7.5	2629
10.0	2524
12.5	2401
15.0	2284
17.5	2117
20.0	1985
22.5	1834
25.0	1679
27.5	1513
30.0	1364
32.5	1206
35.0	1045
37.5	896
40.0	754
42.5	628
45.0	521
47.5	426
50.0	342
52.5	271
55.0	209
57.5	166
60.0	134
62.5	110
65.0	94

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CANDELA TABULATION - (Cont.)

67.5	81
70.0	69
72.5	59
75.0	48
77.5	36
80.0	26
82.5	17
85.0	9
87.5	1
90.0	0

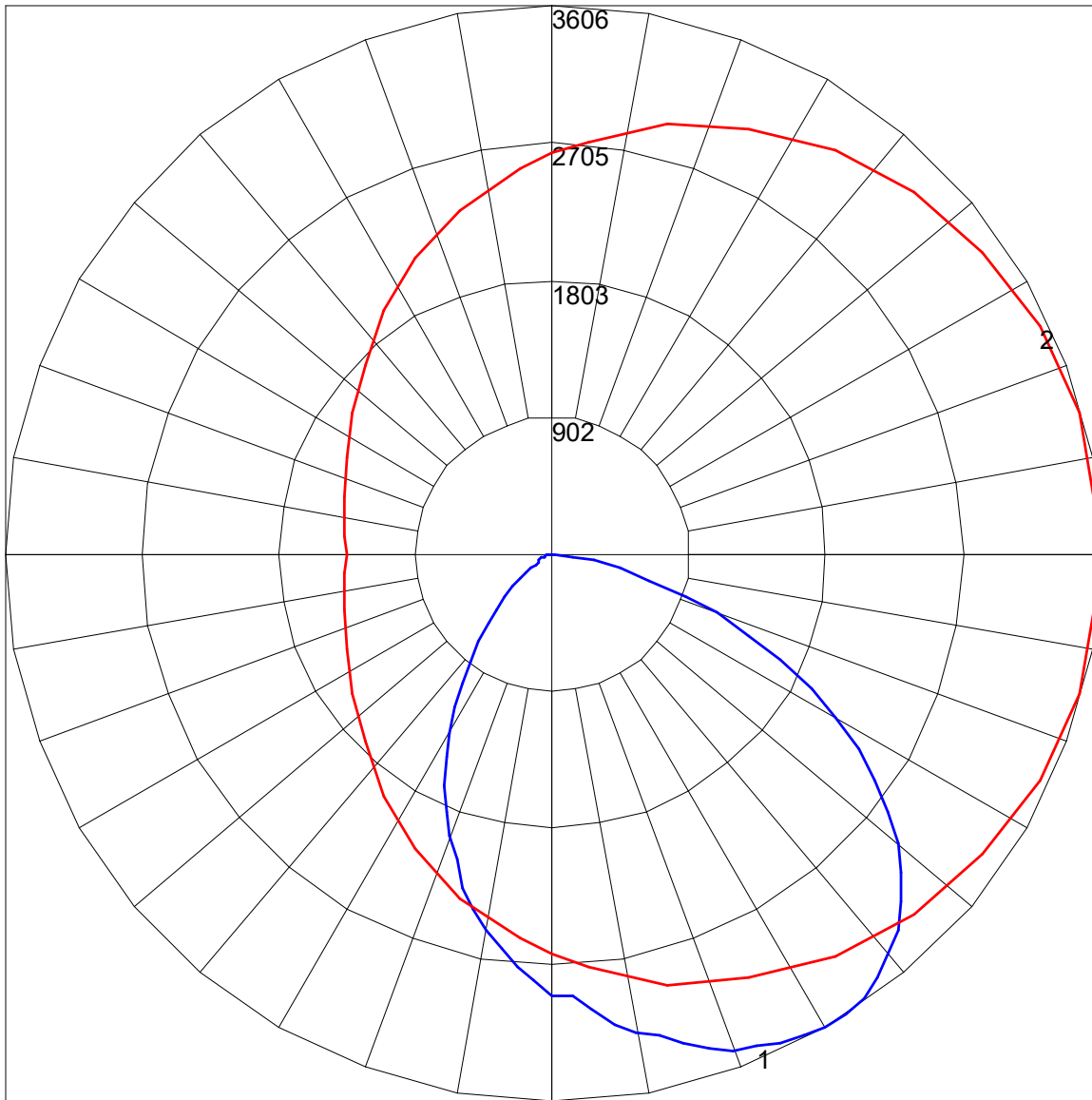
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

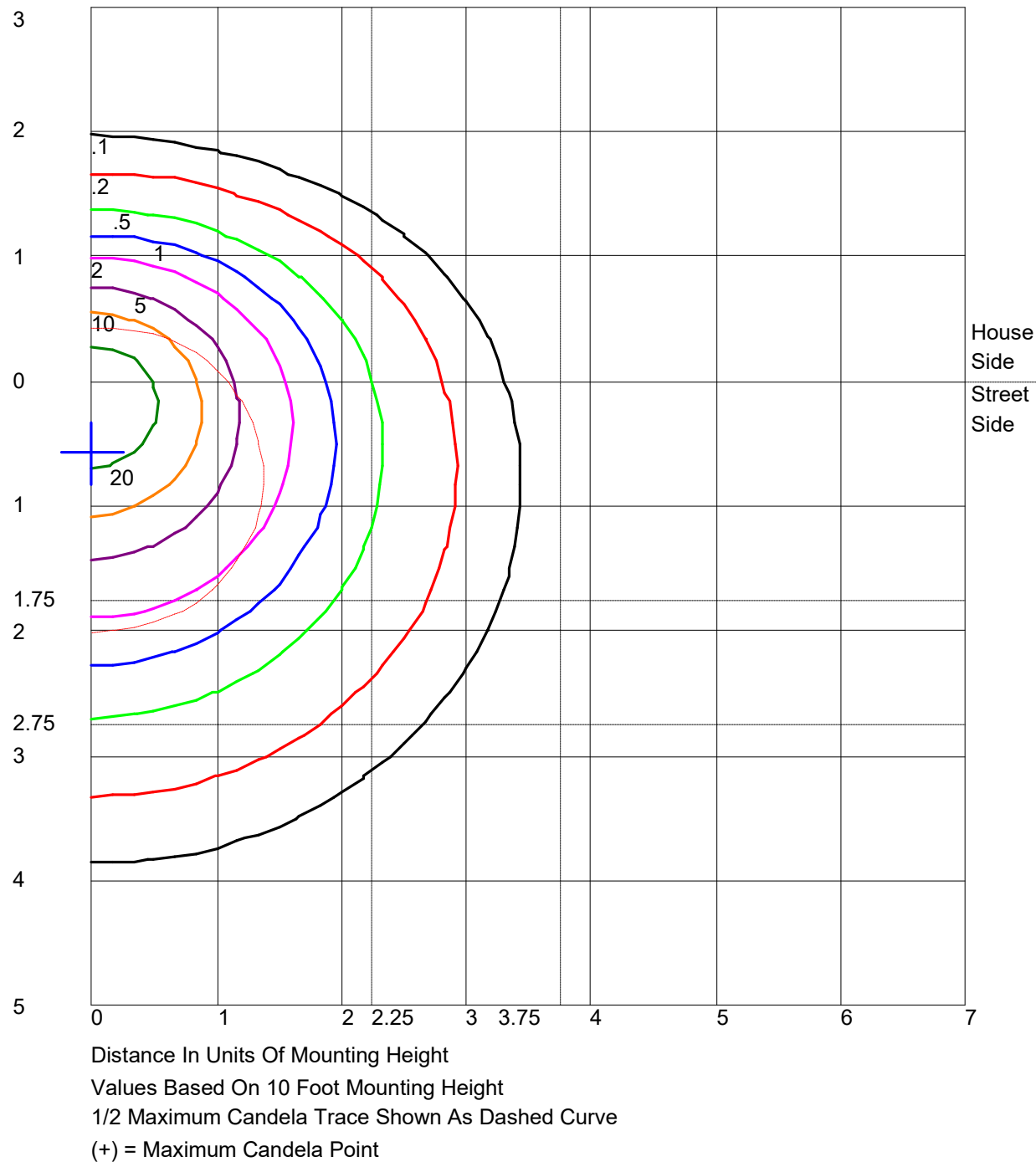
	Lumens	Percent Of Luminaire
Downward Street Side	5441.0	70.0
Downward House Side	2330.1	30.0
Downward Total	7771.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7771.1	100.0

POLAR GRAPH

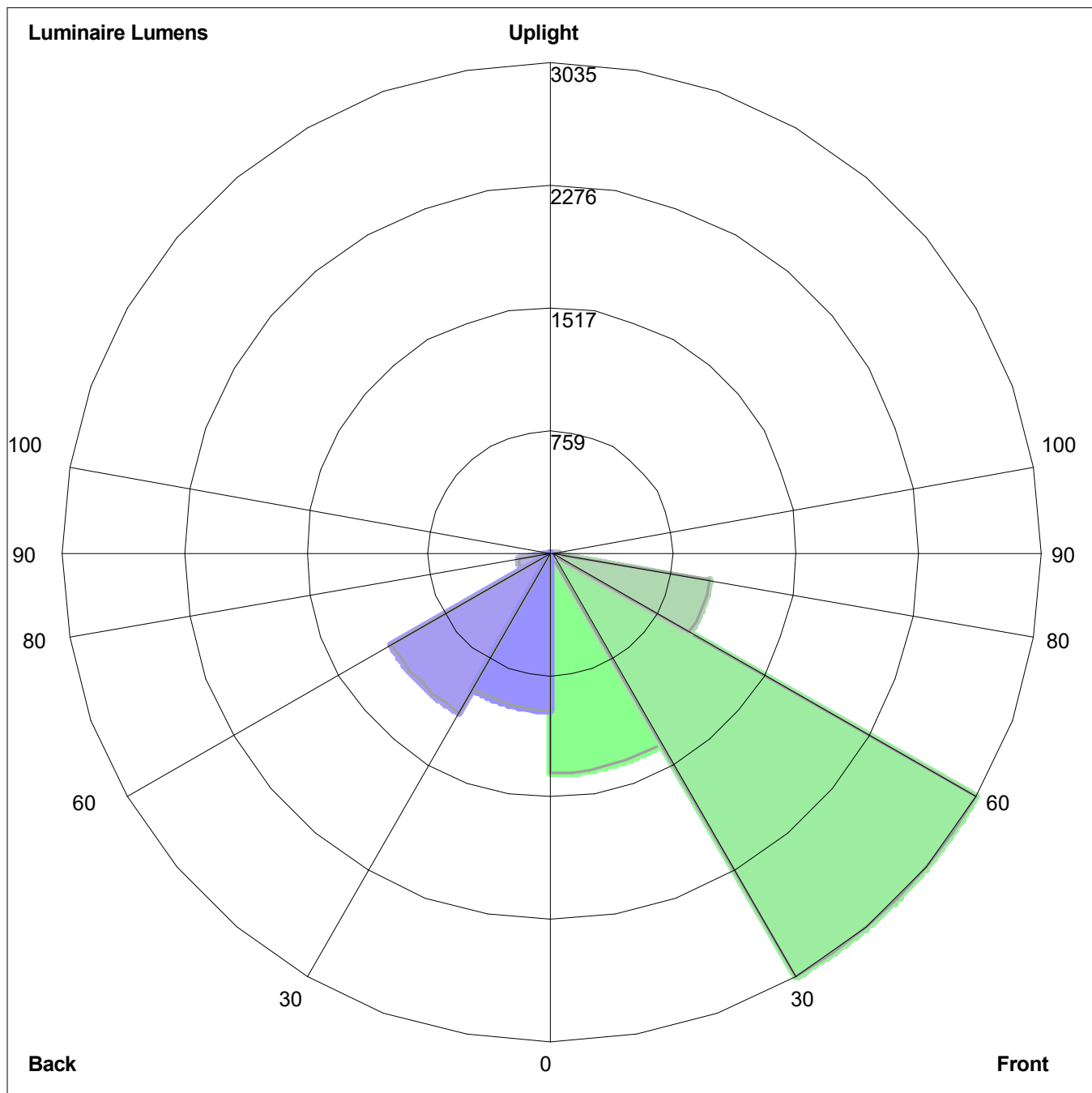


Maximum Candela = 3606 Located At Horizontal Angle = 0, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1368.6, Medium= 3035.0, High=993.4, Very High=44.0
Back: Low=973.9, Medium=1140.3, High=205.4, Very High=10.6
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1