



IES ROAD REPORT
PHOTOMETRIC FILENAME : GST-08L-FT-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12865
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 08/26/2021
[TEST DATE] 07/29/21
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] GST-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	7609
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	66
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3600
Maximum Candela Angle	5H 27.5V
Maximum Candela (<90 Degrees Vertical)	3600
Maximum Candela Angle (<90 Degrees Vertical)	5H 27.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	275 (3.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1366.4	N.A.	18.0
FM - Front-Medium (30-60)	2986.8	N.A.	39.3
FH - Front-High (60-80)	944.1	N.A.	12.4
FVH - Front-Very High (80-90)	38.3	N.A.	0.5
BL - Back-Low (0-30)	959.5	N.A.	12.6
BM - Back-Medium (30-60)	1108.4	N.A.	14.6
BH - Back-High (60-80)	195.1	N.A.	2.6
BVH - Back-Very High (80-90)	10.8	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	7609.4	N.A.	100.0
BUG Rating	B2-U0-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	85
0.0	2936	2936	2936	2936	2936	2936	2936	2936	2936	2936
2.5	2949	2950	2954	2962	2970	2978	2985	2991	2991	2984
5.0	3027	3028	3026	3031	3031	3029	3025	3017	3002	2981
7.5	3128	3129	3123	3116	3107	3084	3061	3043	3017	2983
10.0	3235	3235	3229	3217	3200	3152	3105	3070	3034	2986
12.5	3276	3273	3277	3272	3251	3214	3153	3097	3047	2983
15.0	3354	3351	3332	3304	3278	3249	3199	3134	3056	2975
17.5	3456	3456	3439	3395	3336	3276	3233	3168	3062	2963
20.0	3505	3516	3516	3469	3417	3329	3248	3192	3060	2935
22.5	3528	3531	3527	3495	3469	3387	3254	3189	3039	2888
25.0	3577	3573	3554	3500	3474	3421	3278	3152	3001	2832
27.5	3588	3600	3569	3535	3479	3433	3288	3108	2954	2786
30.0	3569	3587	3567	3557	3474	3389	3251	3049	2921	2732
32.5	3540	3540	3548	3518	3433	3340	3198	3010	2852	2628
35.0	3487	3503	3497	3445	3381	3297	3126	2966	2758	2528
37.5	3428	3452	3428	3374	3314	3223	3044	2882	2647	2426
40.0	3350	3377	3338	3297	3230	3111	2961	2779	2535	2307
42.5	3253	3271	3233	3191	3122	3001	2863	2655	2417	2185
45.0	3142	3150	3115	3076	3000	2874	2730	2522	2281	2047
47.5	3013	3017	2984	2941	2862	2736	2587	2386	2145	1898
50.0	2854	2869	2841	2788	2707	2580	2430	2237	1992	1750
52.5	2676	2684	2661	2625	2538	2397	2242	2060	1840	1594
55.0	2460	2481	2462	2430	2351	2223	2059	1893	1676	1441
57.5	2254	2267	2252	2220	2146	2020	1867	1705	1511	1288
60.0	2032	2032	2034	2000	1931	1812	1679	1524	1337	1132
62.5	1800	1799	1795	1774	1698	1602	1484	1343	1175	989
65.0	1563	1563	1561	1523	1470	1390	1285	1162	1014	851
67.5	1322	1323	1313	1292	1237	1177	1090	989	863	712
70.0	1085	1077	1080	1062	1020	963	905	821	716	591
72.5	858	849	854	842	809	768	726	652	571	475
75.0	618	632	637	634	615	585	540	500	442	369
77.5	420	433	439	443	436	411	387	359	326	274
80.0	242	242	259	270	275	264	252	237	216	187
82.5	94	94	101	121	130	140	138	134	126	110
85.0	6	6	9	17	30	44	52	54	55	50
87.5	0	0	1	1	1	1	3	6	9	10
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	90	95	105	115	125	135	145	155	165	175
0.0	2936	2936	2936	2936	2936	2936	2936	2936	2936	2936
2.5	2985	2979	2966	2947	2927	2905	2885	2860	2839	2829
5.0	2972	2958	2932	2898	2867	2832	2799	2765	2733	2730
7.5	2966	2939	2889	2833	2781	2729	2689	2649	2615	2609
10.0	2961	2924	2845	2765	2689	2622	2563	2520	2493	2486
12.5	2945	2902	2812	2708	2614	2528	2460	2410	2375	2356
15.0	2938	2889	2786	2659	2543	2438	2342	2277	2253	2245
17.5	2917	2863	2744	2592	2473	2345	2244	2159	2125	2115
20.0	2877	2809	2668	2508	2385	2259	2145	2036	1981	1967
22.5	2816	2740	2571	2416	2268	2147	2026	1916	1840	1822
25.0	2770	2690	2494	2330	2161	2012	1892	1785	1690	1661
27.5	2717	2624	2400	2215	2044	1884	1745	1626	1525	1490

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CANDELA TABULATION - (Cont.)

30.0	2634	2527	2294	2084	1909	1747	1594	1465	1375	1337
32.5	2535	2431	2188	1971	1774	1602	1438	1312	1223	1169
35.0	2433	2317	2068	1842	1631	1442	1290	1162	1058	1003
37.5	2328	2187	1938	1705	1489	1292	1139	1007	906	848
40.0	2193	2060	1798	1571	1349	1150	986	852	753	701
42.5	2061	1926	1662	1421	1195	1004	833	705	626	581
45.0	1920	1791	1525	1279	1059	866	702	590	522	483
47.5	1774	1637	1382	1143	923	727	582	488	427	399
50.0	1625	1489	1245	1010	797	609	483	405	351	322
52.5	1476	1340	1100	878	672	506	400	331	284	260
55.0	1328	1202	971	750	564	418	328	268	228	209
57.5	1182	1061	838	640	464	343	266	216	183	166
60.0	1041	920	722	539	382	277	214	173	144	132
62.5	897	795	614	447	311	223	170	136	116	107
65.0	761	676	515	367	251	180	134	110	95	87
67.5	642	568	426	297	201	143	108	88	77	71
70.0	531	465	348	236	158	112	85	70	62	59
72.5	426	374	273	182	120	87	66	56	51	49
75.0	332	291	211	133	90	65	50	43	40	39
77.5	246	217	151	93	64	48	37	33	32	31
80.0	170	146	102	61	43	31	25	23	23	22
82.5	103	90	61	36	25	19	16	16	15	16
85.0	46	44	28	17	11	9	8	8	9	9
87.5	11	11	7	4	3	2	2	2	2	3
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

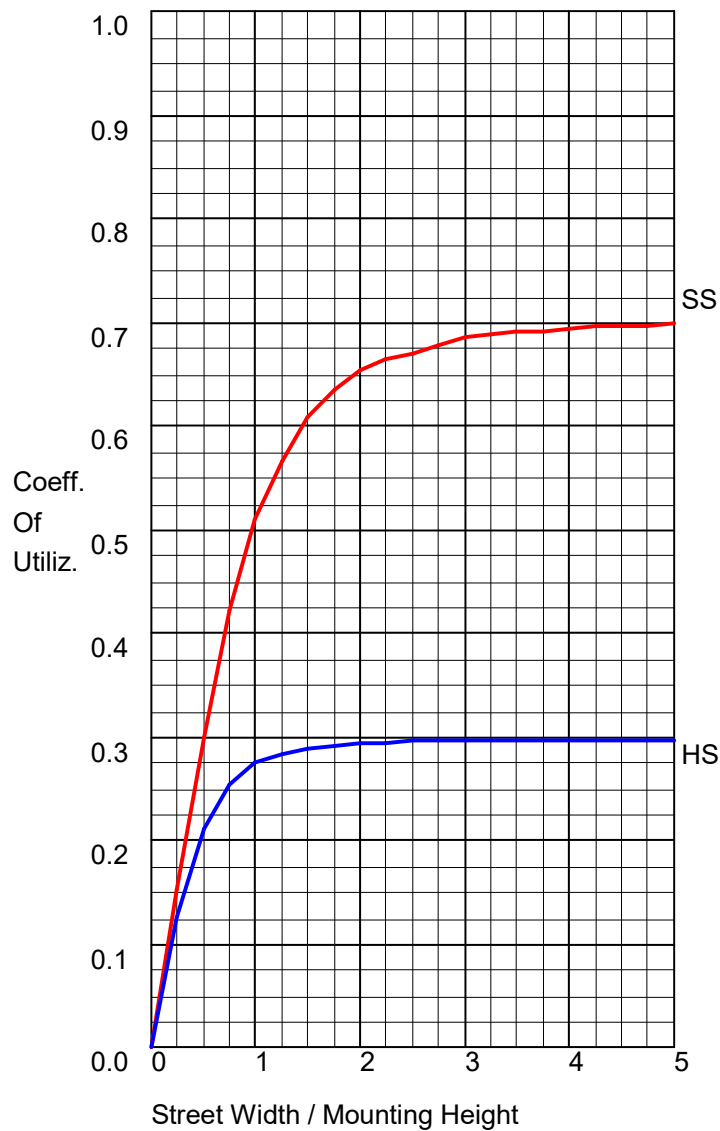
	180
0.0	2936
2.5	2827
5.0	2729
7.5	2610
10.0	2488
12.5	2357
15.0	2247
17.5	2112
20.0	1963
22.5	1826
25.0	1667
27.5	1496
30.0	1326
32.5	1169
35.0	1006
37.5	849
40.0	701
42.5	578
45.0	480
47.5	395
50.0	321
52.5	260
55.0	203
57.5	161
60.0	130
62.5	106
65.0	87

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CANDELA TABULATION - (Cont.)

67.5	72
70.0	59
72.5	49
75.0	39
77.5	31
80.0	22
82.5	15
85.0	9
87.5	3
90.0	0

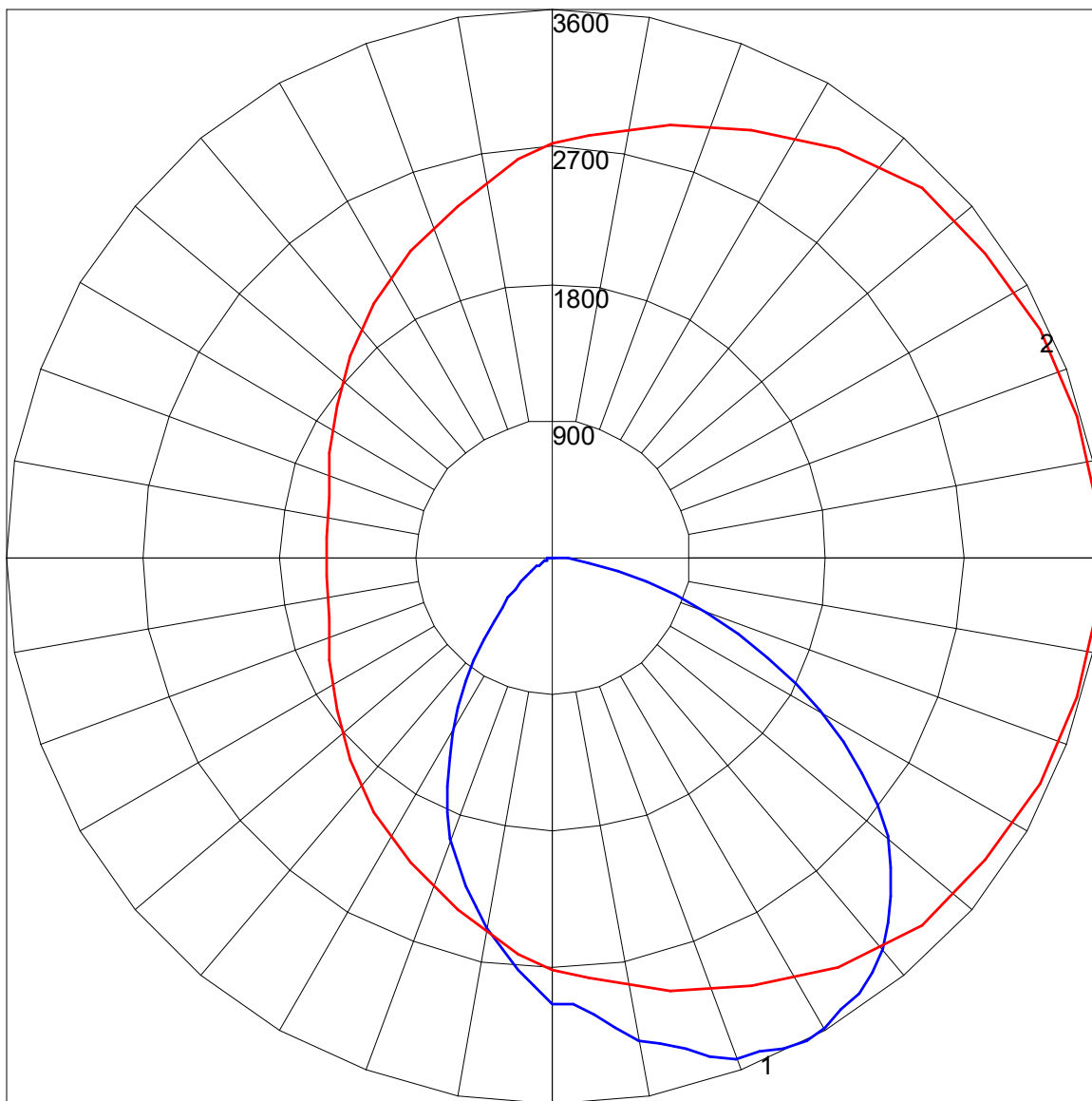
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	5335.7	70.1
Downward House Side	2273.8	29.9
Downward Total	7609.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7609.5	100.0

POLAR GRAPH

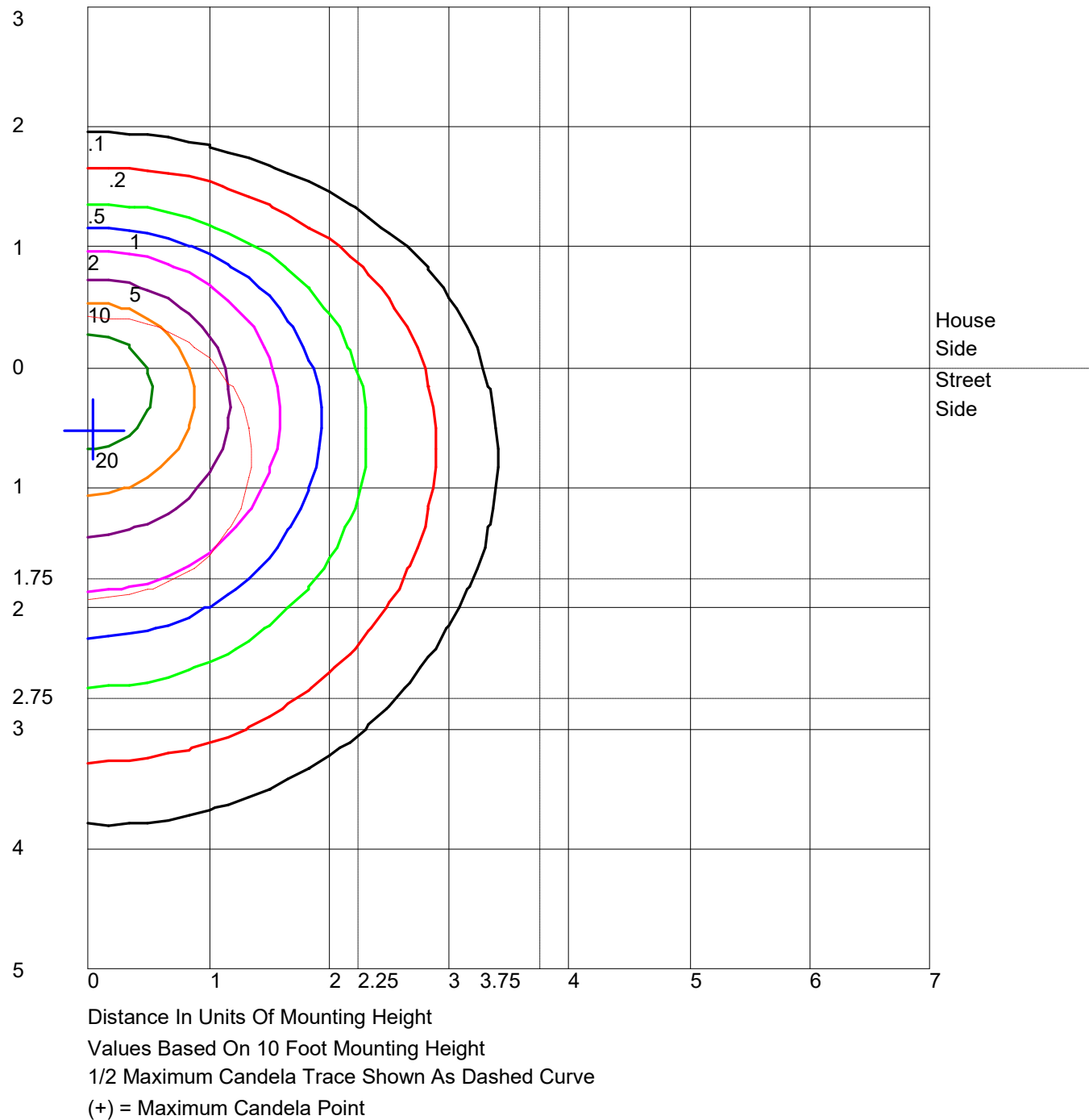


Maximum Candela = 3600 Located At Horizontal Angle = 5, Vertical Angle = 27.5

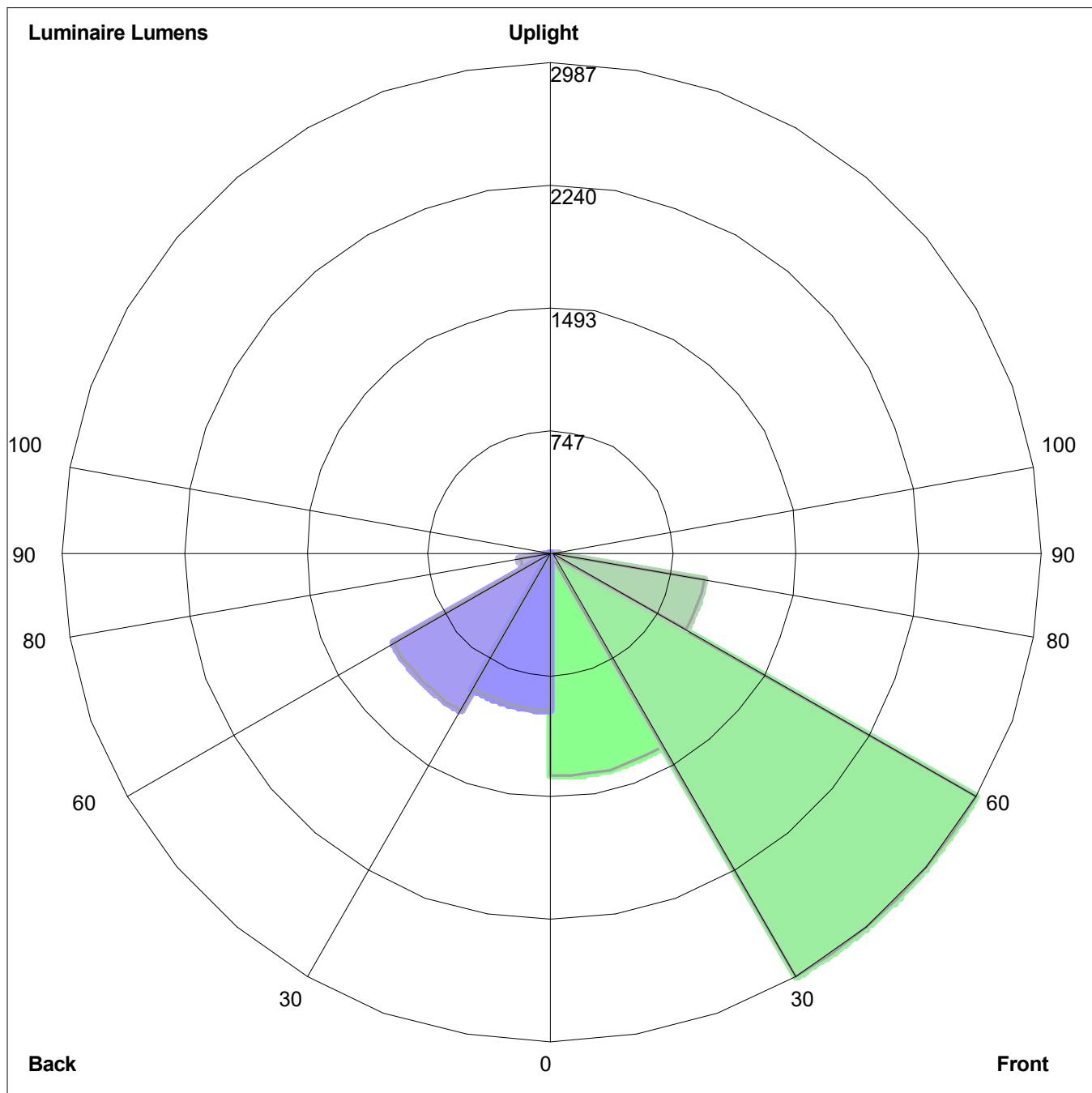
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1366.4, Medium=2986.8, High=944.1, Very High=38.3
Back: Low=959.5, Medium=1108.4, High=195.1, Very High=10.8
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1