



IES ROAD REPORT
PHOTOMETRIC FILENAME : GST-08L-FT-40.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-40
[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] 4000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7587
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	3589
Maximum Candela Angle	5H 27.5V
Maximum Candela (<90 Degrees Vertical)	3589
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	274 (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)	1362.3	N.A.	18.0
FM - Front-Medium (30-60)	2977.8	N.A.	39.2
FH - Front-High (60-80)	941.3	N.A.	12.4
FVH - Front-Very High (80-90)	38.2	N.A.	0.5
BL - Back-Low (0-30)	956.6	N.A.	12.6
BM - Back-Medium (30-60)	1105.1	N.A.	14.6
BH - Back-High (60-80)	194.6	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	7586.7	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	2927	2927	2927	2927	2927	2927	2927	2927	2927	2927
2.5	2940	2941	2945	2953	2961	2969	2976	2982	2982	2975
5.0	3018	3019	3017	3022	3022	3020	3016	3008	2993	2972
7.5	3119	3120	3114	3107	3098	3075	3052	3034	3008	2974
10.0	3225	3225	3219	3207	3190	3143	3096	3061	3025	2977
12.5	3266	3263	3267	3262	3241	3204	3144	3088	3038	2974
15.0	3344	3341	3322	3294	3268	3239	3189	3125	3047	2966
17.5	3446	3446	3429	3385	3326	3266	3223	3159	3053	2954
20.0	3495	3505	3505	3459	3407	3319	3238	3182	3051	2926
22.5	3517	3520	3516	3485	3459	3377	3244	3179	3030	2879
25.0	3566	3562	3543	3490	3464	3411	3268	3143	2992	2824
27.5	3577	3589	3558	3524	3469	3423	3278	3099	2945	2778
30.0	3558	3576	3556	3546	3464	3379	3241	3040	2912	2724
32.5	3529	3529	3537	3507	3423	3330	3188	3001	2843	2620
35.0	3477	3493	3487	3435	3371	3287	3117	2957	2750	2520
37.5	3418	3442	3418	3364	3304	3213	3035	2873	2639	2419
40.0	3340	3367	3328	3287	3220	3102	2952	2771	2527	2300
42.5	3243	3261	3223	3181	3113	2992	2854	2647	2410	2178
45.0	3133	3141	3106	3067	2991	2865	2722	2514	2274	2041
47.5	3004	3008	2975	2932	2853	2728	2579	2379	2139	1892
50.0	2845	2860	2833	2780	2699	2572	2423	2230	1986	1745
52.5	2668	2676	2653	2617	2530	2390	2235	2054	1834	1589
55.0	2453	2474	2455	2423	2344	2216	2053	1887	1671	1437
57.5	2247	2260	2245	2213	2140	2014	1861	1700	1506	1284
60.0	2026	2026	2028	1994	1925	1807	1674	1519	1333	1129
62.5	1795	1794	1790	1769	1693	1597	1480	1339	1171	986
65.0	1558	1558	1556	1518	1466	1386	1281	1159	1011	848
67.5	1318	1319	1309	1288	1233	1173	1087	986	860	710
70.0	1082	1074	1077	1059	1017	960	902	819	714	589
72.5	855	846	851	839	807	766	724	650	569	474
75.0	616	630	635	632	613	583	538	499	441	368
77.5	419	432	438	442	435	410	386	358	325	273
80.0	241	241	258	269	274	263	251	236	215	186
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	2927	2927	2927	2927	2927	2927	2927	2927	2927	2927
2.5	2976	2970	2957	2938	2918	2896	2876	2851	2831	2821
5.0	2963	2949	2923	2889	2858	2824	2791	2757	2725	2722
7.5	2957	2930	2880	2825	2773	2721	2681	2641	2607	2601
10.0	2952	2915	2836	2757	2681	2614	2555	2512	2486	2479
12.5	2936	2893	2804	2700	2606	2520	2453	2403	2368	2349
15.0	2929	2880	2778	2651	2535	2431	2335	2270	2246	2238
17.5	2908	2854	2736	2584	2466	2338	2237	2153	2119	2109
20.0	2868	2801	2660	2500	2378	2252	2139	2030	1975	1961
22.5	2808	2732	2563	2409	2261	2141	2020	1910	1834	1817
25.0	2762	2682	2487	2323	2155	2006	1886	1780	1685	1656
27.5	2709	2616	2393	2208	2038	1878	1740	1621	1520	1486

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CANDELA TABULATION - (Cont.)

30.0	2626	2519	2287	2078	1903	1742	1589	1461	1371	1333
32.5	2527	2424	2181	1965	1769	1597	1434	1308	1219	1166
35.0	2426	2310	2062	1836	1626	1438	1286	1159	1055	1000
37.5	2321	2180	1932	1700	1485	1288	1136	1004	903	845
40.0	2186	2054	1793	1566	1345	1147	983	849	751	699
42.5	2055	1920	1657	1417	1191	1001	831	703	624	579
45.0	1914	1786	1520	1275	1056	863	700	588	520	482
47.5	1769	1632	1378	1140	920	725	580	487	426	398
50.0	1620	1485	1241	1007	795	607	482	404	350	321
52.5	1472	1336	1097	875	670	504	399	330	283	259
55.0	1324	1198	968	748	562	417	327	267	227	208
57.5	1178	1058	835	638	463	342	265	215	182	166
60.0	1038	917	720	537	381	276	213	172	144	132
62.5	894	793	612	446	310	222	169	136	116	107
65.0	759	674	513	366	250	179	134	110	95	87
67.5	640	566	425	296	200	143	108	88	77	71
70.0	529	464	347	235	158	112	85	70	62	59
72.5	425	373	272	181	120	87	66	56	51	49
75.0	331	290	210	133	90	65	50	43	40	39
77.5	245	216	151	93	64	48	37	33	32	31
80.0	169	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

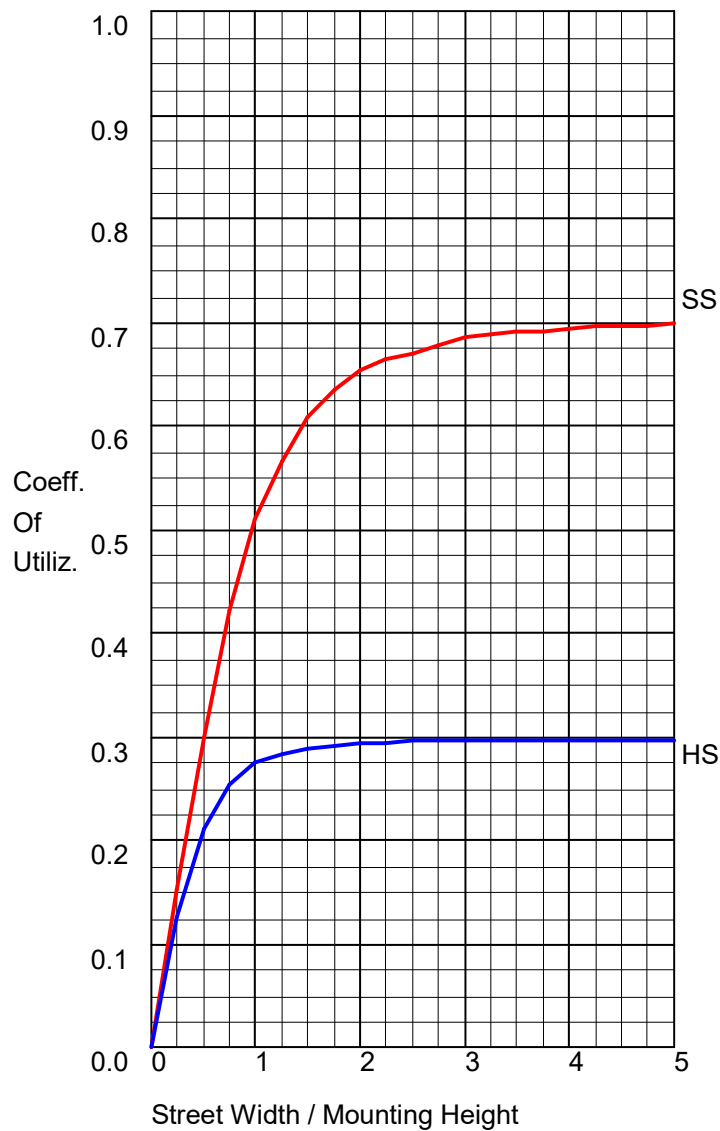
	180
0.0	2927
2.5	2819
5.0	2721
7.5	2602
10.0	2481
12.5	2350
15.0	2240
17.5	2106
20.0	1957
22.5	1821
25.0	1662
27.5	1492
30.0	1322
32.5	1166
35.0	1003
37.5	846
40.0	699
42.5	576
45.0	479
47.5	394
50.0	320
52.5	259
55.0	202
57.5	161
60.0	130
62.5	106
65.0	87

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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

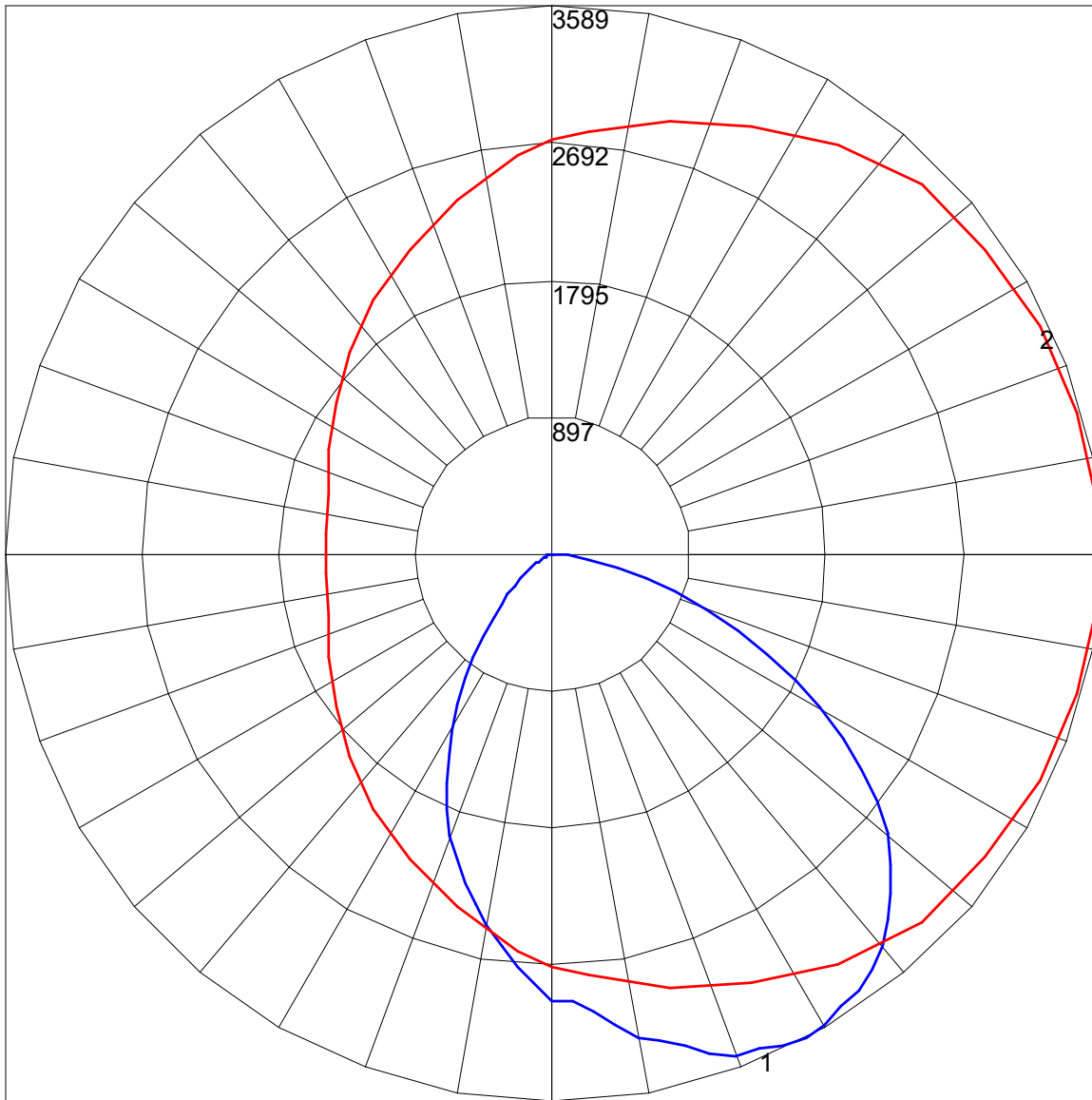
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

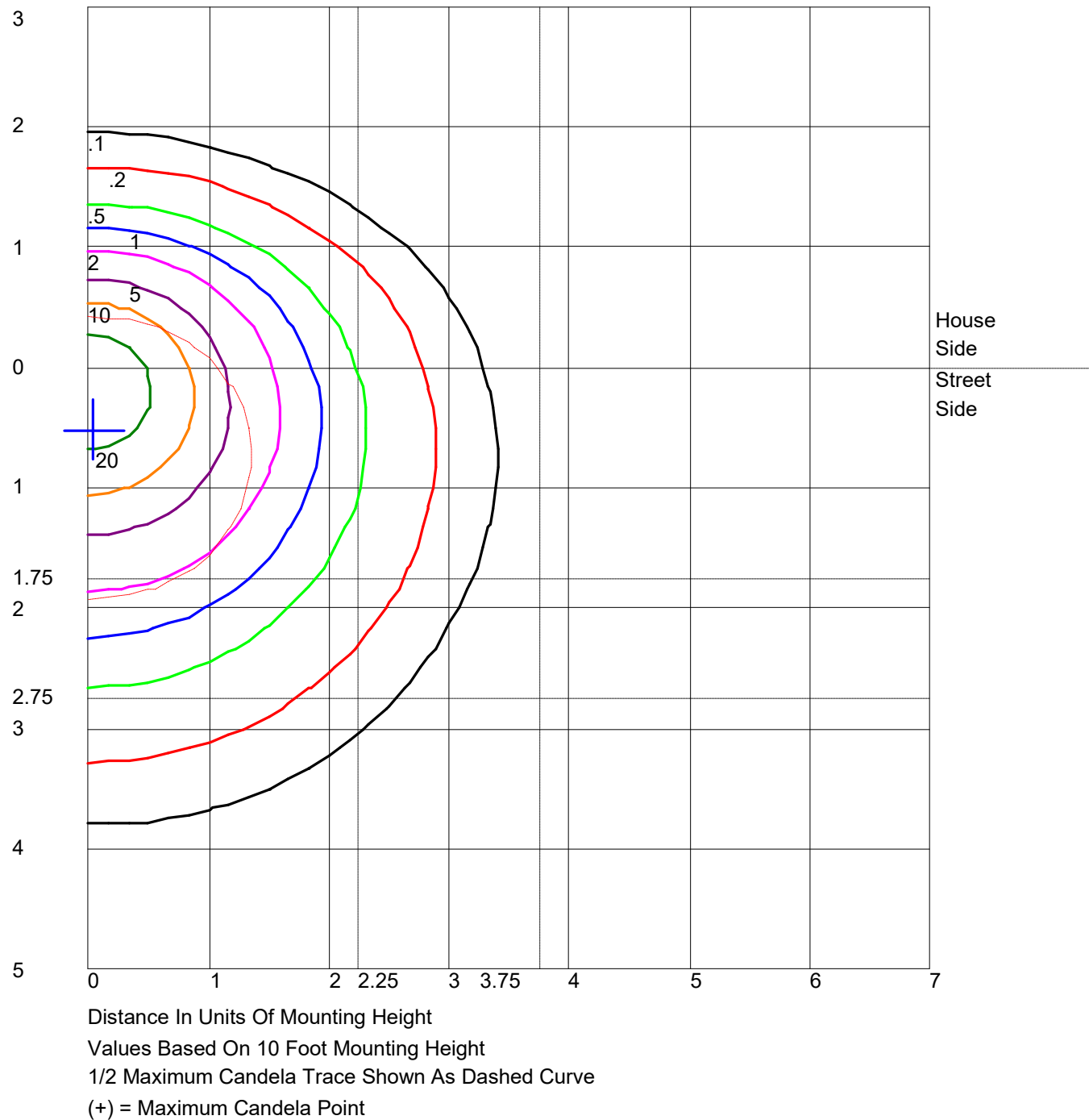
	Lumens	Percent Of Luminaire
Downward Street Side	5319.7	70.1
Downward House Side	2267.1	29.9
Downward Total	7586.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7586.8	100.0

POLAR GRAPH

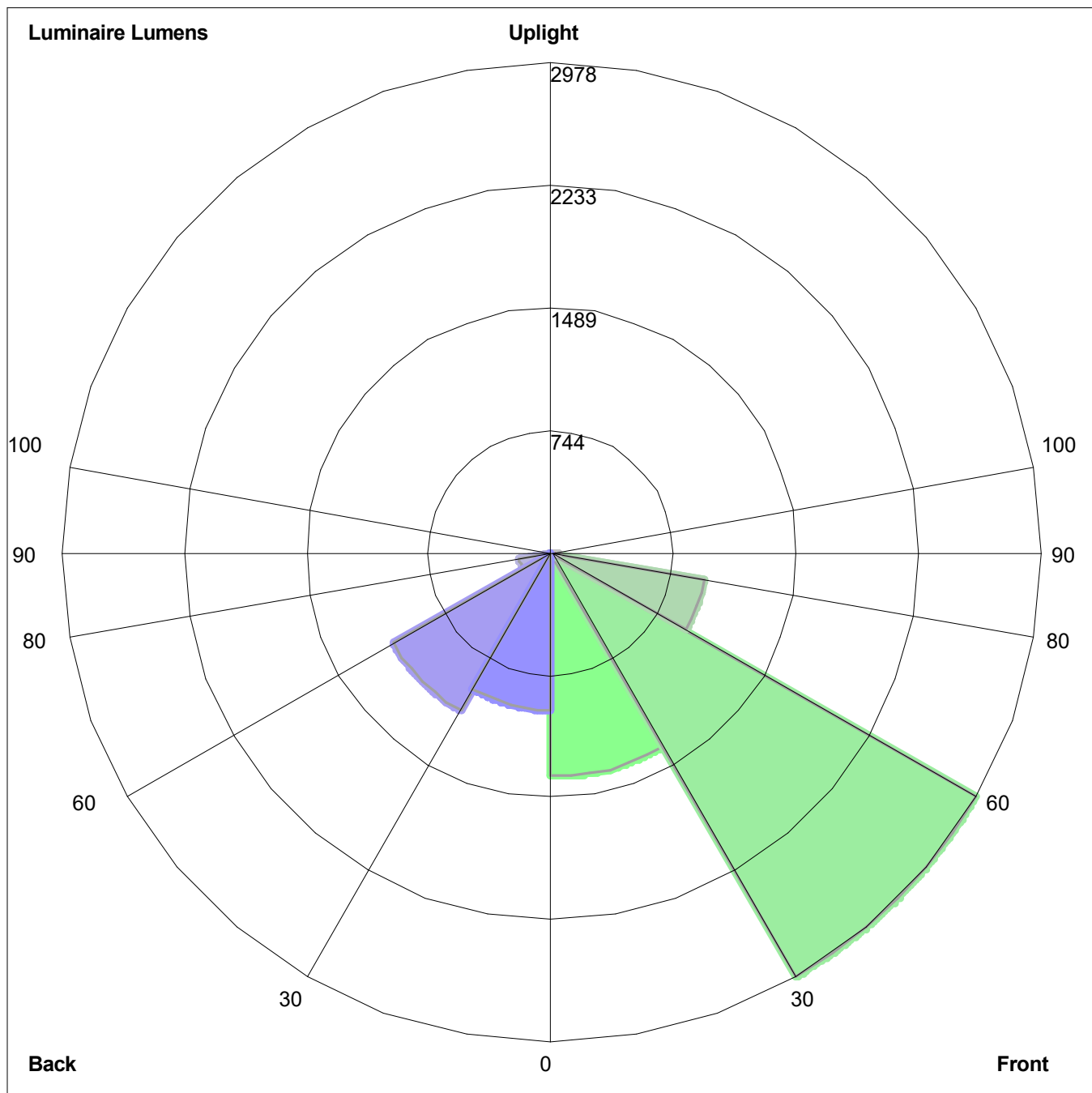


Maximum Candela = 3589 Located At Horizontal Angle = 5, Vertical Angle = 27.5
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1362.3, Medium=2977.8, High=941.3, Very High=38.2
Back: Low=956.6, Medium=1105.1, High=194.6, Very High=10.8
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1