



IES ROAD REPORT
PHOTOMETRIC FILENAME : GST-06L-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-06L-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	5845
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	49
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2765
Maximum Candela Angle	5H 27.5V
Maximum Candela (<90 Degrees Vertical)	2765
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	211 (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)	1049.6	N.A.	18.0
FM - Front-Medium (30-60)	2294.1	N.A.	39.2
FH - Front-High (60-80)	725.2	N.A.	12.4
FVH - Front-Very High (80-90)	29.5	N.A.	0.5
BL - Back-Low (0-30)	737.0	N.A.	12.6
BM - Back-Medium (30-60)	851.4	N.A.	14.6
BH - Back-High (60-80)	149.9	N.A.	2.6
BVH - Back-Very High (80-90)	8.3	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	5845.0	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	2255	2255	2255	2255	2255	2255	2255	2255	2255	2255
2.5	2265	2266	2269	2275	2281	2287	2293	2297	2297	2292
5.0	2325	2326	2324	2328	2328	2327	2324	2317	2306	2290
7.5	2403	2404	2399	2394	2387	2369	2351	2337	2317	2291
10.0	2485	2485	2480	2471	2458	2421	2385	2358	2330	2293
12.5	2516	2514	2517	2513	2497	2468	2422	2379	2340	2291
15.0	2576	2574	2559	2538	2518	2495	2457	2407	2347	2285
17.5	2655	2655	2642	2608	2562	2516	2483	2434	2352	2276
20.0	2693	2700	2700	2665	2625	2557	2495	2451	2350	2254
22.5	2709	2712	2709	2685	2665	2602	2499	2449	2334	2218
25.0	2747	2744	2730	2689	2669	2628	2518	2421	2305	2176
27.5	2756	2765	2741	2715	2673	2637	2525	2387	2269	2140
30.0	2741	2755	2740	2732	2669	2603	2497	2342	2243	2099
32.5	2719	2719	2725	2702	2637	2565	2456	2312	2190	2018
35.0	2679	2691	2686	2646	2597	2532	2401	2278	2119	1941
37.5	2633	2652	2633	2592	2545	2475	2338	2213	2033	1864
40.0	2573	2594	2564	2532	2481	2390	2274	2135	1947	1772
42.5	2498	2512	2483	2451	2398	2305	2199	2039	1857	1678
45.0	2414	2420	2393	2363	2304	2207	2097	1937	1752	1572
47.5	2314	2317	2292	2259	2198	2102	1987	1833	1648	1458
50.0	2192	2203	2183	2142	2079	1981	1867	1718	1530	1344
52.5	2055	2062	2044	2016	1949	1841	1722	1582	1413	1224
55.0	1890	1906	1891	1867	1806	1707	1582	1454	1287	1107
57.5	1731	1741	1730	1705	1649	1552	1434	1310	1160	989
60.0	1561	1561	1562	1536	1483	1392	1290	1170	1027	870
62.5	1383	1382	1379	1363	1304	1230	1140	1032	902	760
65.0	1200	1200	1199	1169	1129	1068	987	893	779	653
67.5	1015	1016	1008	992	950	904	837	760	663	547
70.0	834	827	830	816	783	740	695	631	550	454
72.5	659	652	656	646	622	590	558	501	438	365
75.0	475	485	489	487	472	449	414	384	340	284
77.5	323	333	337	341	335	316	297	276	250	210
80.0	186	186	199	207	211	203	193	182	166	143
82.5	72	72	78	93	100	108	106	103	97	85
85.0	5	5	7	13	23	34	40	42	42	39
87.5	0	0	1	1	1	1	2	5	7	8
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	2255	2255	2255	2255	2255	2255	2255	2255	2255	2255
2.5	2293	2288	2278	2263	2248	2231	2216	2196	2181	2173
5.0	2283	2272	2252	2226	2202	2176	2150	2124	2099	2097
7.5	2278	2257	2219	2176	2136	2096	2065	2035	2008	2004
10.0	2274	2246	2185	2124	2065	2014	1968	1935	1915	1910
12.5	2262	2229	2160	2080	2008	1941	1890	1851	1824	1810
15.0	2256	2219	2140	2042	1953	1873	1799	1749	1730	1724
17.5	2240	2199	2108	1991	1900	1801	1723	1659	1632	1625
20.0	2209	2158	2049	1926	1832	1735	1648	1564	1522	1511
22.5	2163	2105	1975	1856	1742	1649	1556	1471	1413	1400
25.0	2128	2066	1916	1790	1660	1545	1453	1371	1298	1276
27.5	2087	2015	1844	1701	1570	1447	1340	1249	1171	1145

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CANDELA TABULATION - (Cont.)

30.0	2023	1941	1762	1601	1466	1342	1224	1126	1056	1027
32.5	1947	1867	1680	1514	1363	1230	1105	1008	939	898
35.0	1869	1780	1589	1414	1253	1108	991	893	813	770
37.5	1788	1679	1488	1310	1144	992	875	773	696	651
40.0	1684	1582	1381	1206	1036	884	757	654	579	539
42.5	1583	1479	1277	1092	918	771	640	542	481	446
45.0	1475	1376	1171	982	814	665	539	453	401	371
47.5	1363	1257	1062	878	709	559	447	375	328	307
50.0	1248	1144	956	776	612	468	371	311	270	247
52.5	1134	1029	845	674	516	388	307	254	218	200
55.0	1020	923	746	576	433	321	252	206	175	160
57.5	908	815	643	492	357	263	204	166	140	128
60.0	800	706	555	414	294	213	164	133	111	102
62.5	689	611	471	344	239	171	130	105	89	82
65.0	585	519	395	282	193	138	103	85	73	67
67.5	493	436	327	228	154	110	83	68	59	55
70.0	408	357	267	181	122	86	65	54	48	45
72.5	327	287	210	139	92	67	51	43	39	38
75.0	255	223	162	102	69	50	39	33	31	30
77.5	189	166	116	72	49	37	29	25	25	24
80.0	130	112	79	47	33	24	19	18	18	17
82.5	79	69	47	28	19	15	12	12	12	12
85.0	35	34	22	13	8	7	6	6	7	7
87.5	8	8	5	3	2	2	2	2	2	2
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

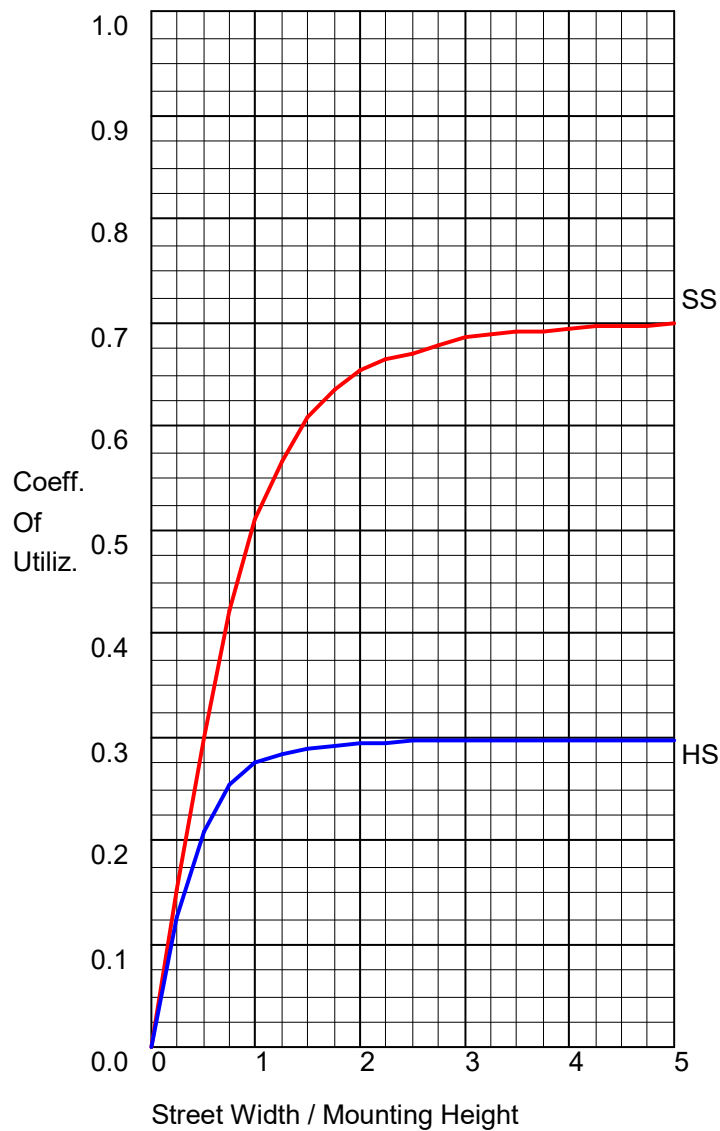
	180
0.0	2255
2.5	2172
5.0	2096
7.5	2005
10.0	1911
12.5	1810
15.0	1726
17.5	1622
20.0	1508
22.5	1403
25.0	1280
27.5	1149
30.0	1018
32.5	898
35.0	773
37.5	652
40.0	539
42.5	444
45.0	369
47.5	304
50.0	247
52.5	200
55.0	156
57.5	124
60.0	100
62.5	82
65.0	67

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CANDELA TABULATION - (Cont.)

67.5	55
70.0	45
72.5	38
75.0	30
77.5	24
80.0	17
82.5	12
85.0	7
87.5	2
90.0	0

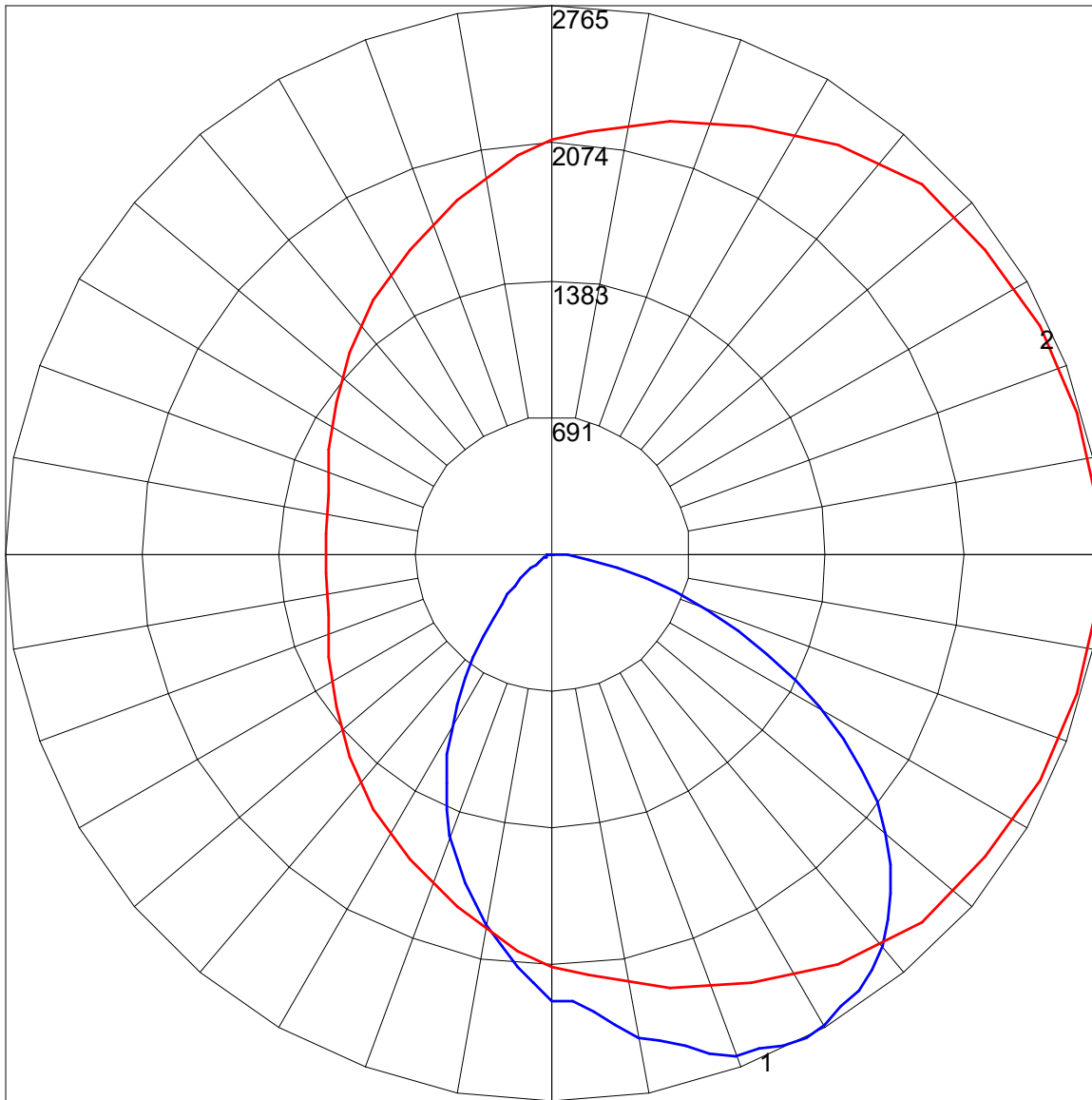
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

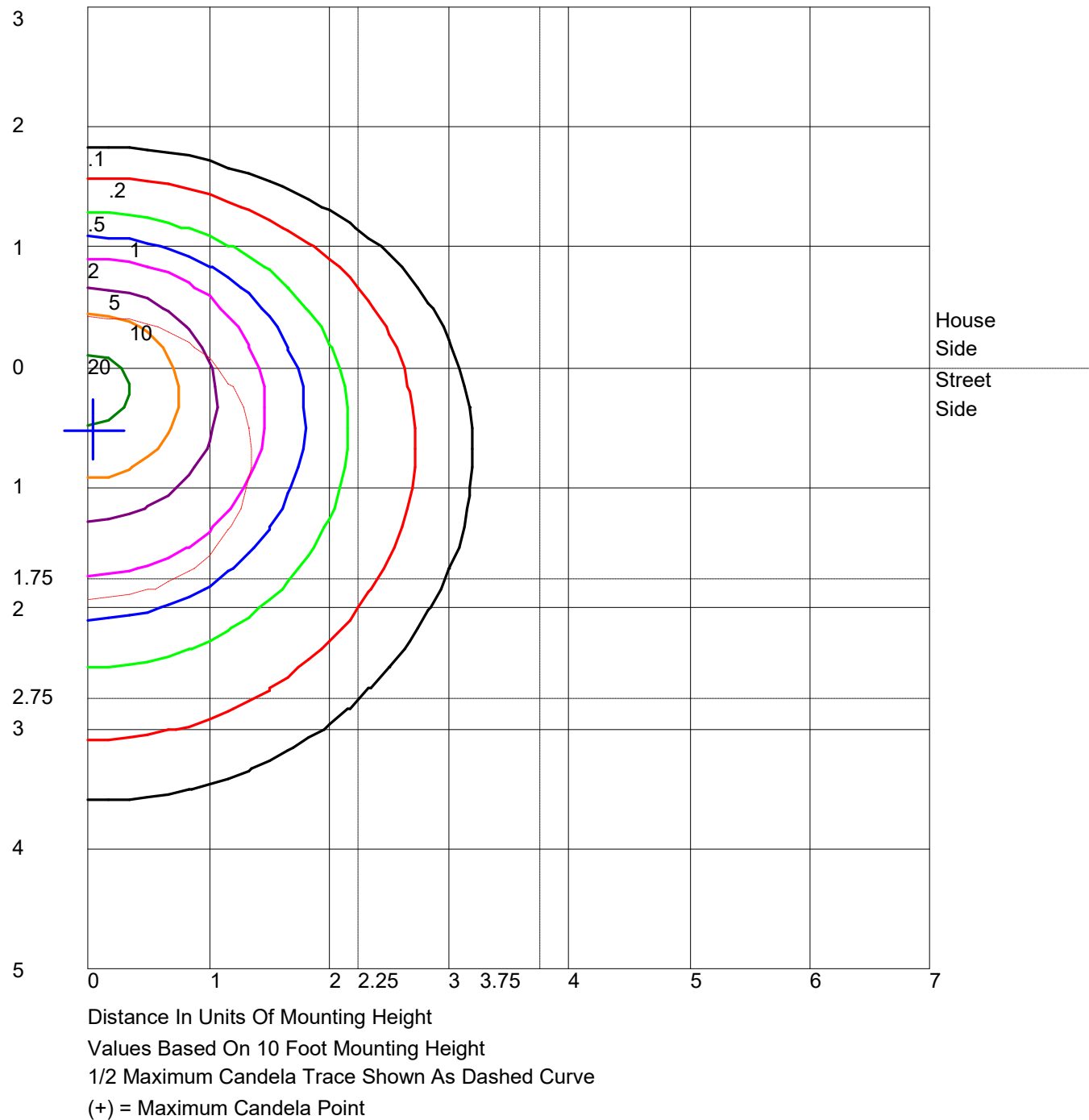
	Lumens	Percent Of Luminaire
Downward Street Side	4098.3	70.1
Downward House Side	1746.6	29.9
Downward Total	5844.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5844.9	100.0

POLAR GRAPH

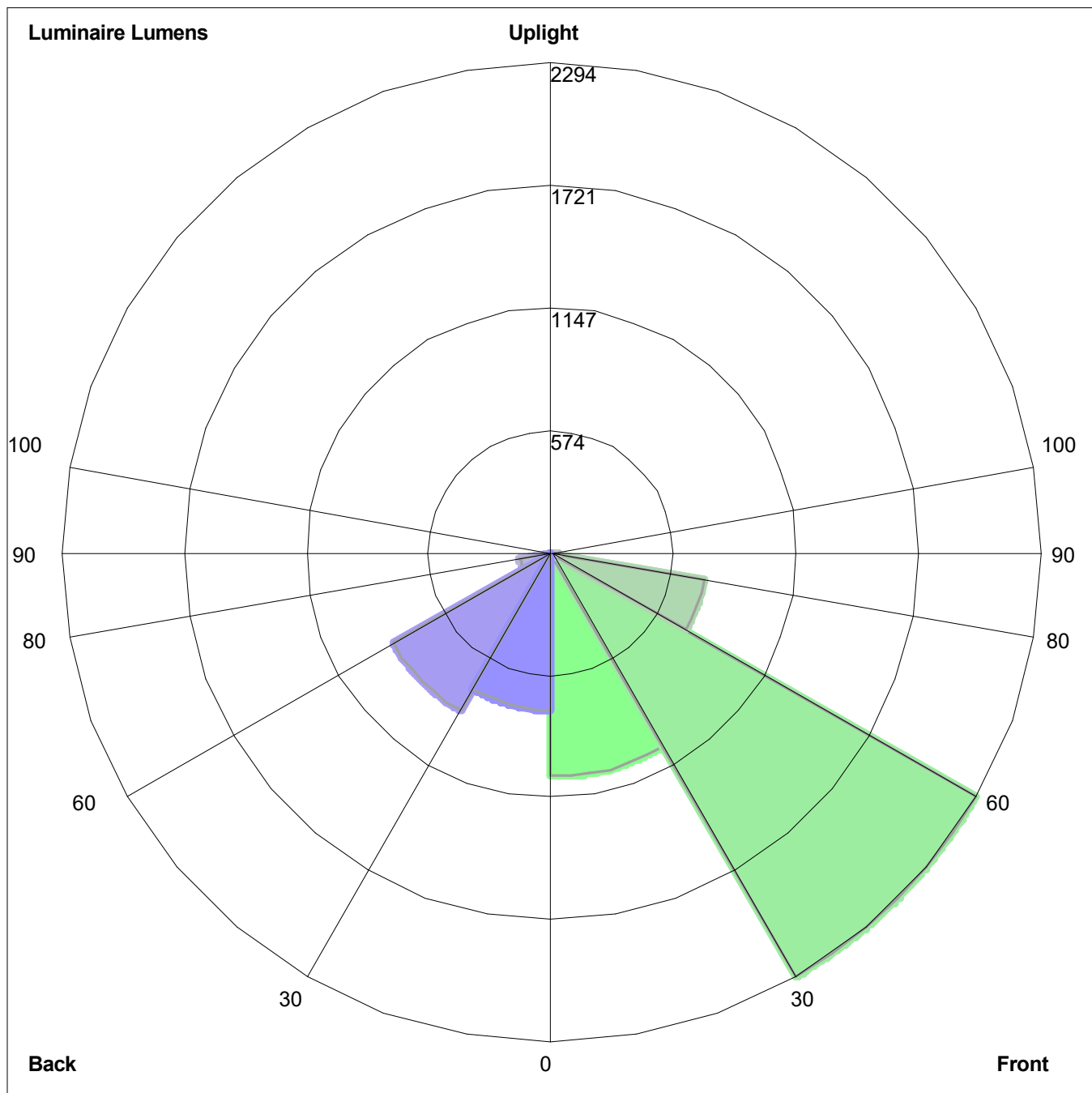


Maximum Candela = 2765 Located At Horizontal Angle = 5, Vertical Angle = 27.5
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1049.6, Medium=2294.1, High=725.2, Very High=29.5
Back: Low=737.0, Medium=851.4, High=149.9, Very High=8.3
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1