



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L83-730-T3-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011760
[TESTLAB] ATA-LABS
[ISSUE DATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA1-L83-730-T3-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA1 LED AREA LIGHT FIXTURE WITH TYPE
[MORE] III OPTICS AND CLEAR LENS
[LAMP] LED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor, Architectural, Area, Parking, Site
[SEARCH_MOUNTING] Pole

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7869
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5640.869
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	5640.869
Maximum Candela Angle (<90 Degrees Vertical)	62.5H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1150.446 (14.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L83-730-T3-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	794.1	N.A.	10.1
FM - Front-Medium (30-60)	2750.6	N.A.	35.0
FH - Front-High (60-80)	1838.0	N.A.	23.4
FVH - Front-Very High (80-90)	56.1	N.A.	0.7
BL - Back-Low (0-30)	431.1	N.A.	5.5
BM - Back-Medium (30-60)	1022.2	N.A.	13.0
BH - Back-High (60-80)	895.6	N.A.	11.4
BVH - Back-Very High (80-90)	81.8	N.A.	1.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	7869.5	N.A.	100.0
BUG Rating	B2-U0-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>62.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	1641.643	1641.643	1641.643	1641.643	1641.643	1641.643	1641.643	1641.643	1641.643	1641.643
2.5	1725.871	1713.723	1710.888	1710.483	1701.979	1697.930	1685.377	1679.302	1674.038	1663.510
5.0	1813.744	1802.810	1797.141	1791.472	1776.894	1763.531	1741.259	1722.226	1713.723	1686.186
7.5	1845.734	1836.421	1831.966	1831.966	1827.512	1817.388	1791.067	1765.555	1755.837	1713.318
10.0	1826.702	1821.438	1816.983	1822.653	1829.942	1839.255	1831.156	1806.860	1798.356	1745.713
12.5	1811.719	1808.480	1803.215	1809.289	1816.983	1833.991	1845.329	1837.635	1833.991	1780.538
15.0	1817.388	1814.959	1806.860	1807.265	1811.314	1828.322	1849.379	1857.073	1859.907	1822.248
17.5	1846.544	1844.115	1832.776	1826.297	1821.438	1834.396	1857.883	1874.485	1881.369	1863.957
20.0	1882.989	1884.204	1870.031	1863.147	1851.809	1857.478	1876.915	1898.377	1905.261	1905.261
22.5	1921.459	1921.459	1910.525	1905.666	1899.187	1898.377	1909.311	1931.987	1937.252	1946.970
25.0	1951.425	1951.830	1945.756	1945.351	1951.830	1953.449	1954.664	1969.647	1975.721	1987.465
27.5	1976.531	1978.151	1968.837	1976.531	2000.018	2015.811	2013.381	2012.571	2019.050	2027.149
30.0	2004.472	2002.853	1992.729	1994.754	2036.058	2085.056	2083.436	2064.809	2066.024	2067.239
32.5	2006.902	2007.307	2005.687	2012.571	2058.330	2155.112	2160.781	2130.410	2122.311	2106.923
35.0	1991.109	1993.539	2003.662	2034.033	2092.345	2219.093	2257.157	2210.184	2191.961	2143.368
37.5	1969.242	1972.887	1988.680	2061.165	2179.813	2286.313	2364.063	2299.676	2264.446	2168.475
40.0	1944.541	1950.615	1977.746	2129.195	2409.416	2551.957	2509.437	2401.722	2350.699	2194.391
42.5	1909.311	1920.649	1954.259	2092.345	2413.871	2817.600	2868.218	2612.293	2512.677	2236.910
45.0	1978.151	1983.820	1968.027	2061.569	2351.509	2781.560	3104.705	3006.709	2892.109	2388.764
47.5	2179.813	2174.144	2147.823	2164.830	2330.047	2679.514	3098.631	3188.933	3160.992	2777.105
50.0	2172.524	2164.425	2215.043	2330.047	2429.663	2641.044	2947.587	3107.945	3099.441	2827.723
52.5	1979.366	1972.482	2098.014	2342.601	2600.955	2757.668	2885.630	2985.247	2988.486	2740.255
55.0	1527.853	1539.597	1774.869	2248.654	2744.710	3097.821	3057.327	3041.129	3041.534	2805.046
57.5	1143.967	1174.742	1385.313	1928.748	2749.569	3619.389	3527.061	3270.732	3235.097	2921.670
60.0	922.867	941.090	1058.523	1353.323	2382.690	3939.699	4409.029	3723.459	3611.290	3159.777
62.5	666.943	684.355	747.931	887.637	1657.435	3716.170	5265.891	4514.315	4263.654	3562.697
65.0	534.121	544.650	584.739	617.135	926.917	3068.260	5312.054	5346.474	5060.179	4056.728
67.5	467.710	470.545	523.997	532.096	569.351	1729.515	4728.935	5640.869	5573.243	4355.982
70.0	370.929	364.045	441.389	464.876	440.174	845.118	3584.564	5058.964	5220.132	4414.699
72.5	261.189	254.305	284.676	395.225	347.037	480.263	1984.225	3851.017	4147.031	3983.433
75.0	201.662	199.637	202.472	304.518	287.915	311.402	868.200	2337.741	2641.854	2659.672
77.5	139.301	137.681	140.920	202.877	245.396	214.620	372.953	931.776	1239.128	1732.350
80.0	89.898	88.278	92.732	127.962	214.620	141.325	195.183	357.161	526.022	1150.446
82.5	48.998	47.378	53.048	75.725	142.540	78.559	102.451	152.259	190.324	526.832
85.0	20.652	19.437	23.082	34.420	50.618	32.800	41.709	54.262	61.551	115.814
87.5	4.049	4.049	4.454	7.694	9.314	6.884	8.099	10.529	11.338	13.768
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	1641.643	1641.643	1641.643	1641.643	1641.643	1641.643	1641.643	1641.643	1641.643	1641.643
2.5	1648.932	1643.262	1637.998	1621.395	1609.247	1591.025	1574.017	1569.968	1553.365	1546.886
5.0	1654.196	1637.188	1623.420	1586.975	1550.530	1508.416	1467.112	1439.981	1402.321	1381.669
7.5	1664.319	1637.188	1614.106	1554.175	1488.979	1410.825	1327.406	1252.492	1161.379	1120.885
10.0	1679.302	1643.262	1608.842	1523.804	1421.353	1282.862	1120.480	985.633	891.686	851.192
12.5	1698.740	1654.196	1607.222	1492.623	1339.554	1111.166	910.314	835.399	819.202	813.532
15.0	1724.251	1670.799	1612.082	1462.657	1235.484	941.900	832.565	816.367	811.103	810.698
17.5	1755.027	1692.666	1622.205	1430.667	1107.522	848.762	820.821	813.532	810.293	808.673
20.0	1789.042	1719.392	1637.188	1393.817	981.989	825.276	815.152	809.888	800.979	792.475
22.5	1828.727	1752.192	1655.006	1349.678	892.091	817.987	807.053	794.905	782.757	771.013
25.0	1871.651	1784.588	1672.418	1297.845	851.192	811.913	792.475	773.443	759.270	745.907
27.5	1918.624	1818.198	1685.377	1237.509	836.614	803.409	773.038	750.361	735.783	721.205

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CANDELA TABULATION - (Cont.)

30.0	1967.218	1854.238	1702.384	1175.147	826.491	789.641	752.386	725.659	710.272	698.528
32.5	2014.191	1893.518	1721.822	1117.645	815.962	771.823	730.114	700.148	687.595	678.686
35.0	2049.421	1919.029	1735.590	1062.573	801.384	750.766	710.272	675.042	663.298	658.844
37.5	2062.379	1921.459	1732.755	1016.814	783.566	728.494	689.619	654.389	641.431	633.332
40.0	2075.338	1927.938	1731.945	985.229	768.179	707.437	671.802	634.547	617.944	607.416
42.5	2092.750	1941.706	1740.449	961.742	754.411	689.215	656.009	617.539	591.218	579.070
45.0	2186.292	2040.512	1818.603	971.460	747.122	674.232	643.861	602.152	565.707	553.153
47.5	2443.027	2261.207	2029.174	1111.166	804.624	670.587	636.572	597.697	552.343	541.815
50.0	2494.050	2308.585	2070.073	1200.254	957.692	747.122	639.001	603.771	569.351	593.243
52.5	2431.283	2247.844	2012.976	1096.183	906.669	848.762	692.049	609.846	619.159	715.536
55.0	2503.363	2332.477	2125.551	1145.586	818.797	747.122	737.403	621.589	665.728	833.780
57.5	2607.839	2456.795	2310.610	1370.330	807.863	670.587	641.836	618.754	687.595	889.662
60.0	2765.767	2603.789	2538.998	1692.666	827.300	632.522	567.326	554.368	679.091	847.548
62.5	3006.304	2808.691	2772.246	2008.117	876.704	601.342	519.138	513.874	646.695	754.411
65.0	3234.287	2936.248	2857.689	2137.294	978.344	575.020	476.619	478.644	601.747	650.340
67.5	3317.705	2989.296	2911.142	2174.144	1096.183	540.600	434.100	436.934	534.526	566.517
70.0	3248.460	2977.148	2952.446	2136.079	1199.849	508.610	383.077	386.721	471.355	496.866
72.5	2841.086	2636.185	2670.200	1986.655	1265.045	475.404	330.434	330.839	405.754	420.332
75.0	1764.746	1655.816	1721.822	1623.420	1256.946	451.108	272.122	273.337	337.723	317.881
77.5	1180.816	1054.069	1093.349	1280.838	1173.527	426.001	216.240	214.215	261.189	170.886
80.0	872.654	763.319	818.392	982.799	1033.822	400.085	147.805	153.879	175.341	85.848
82.5	349.062	322.335	372.143	553.963	779.922	328.814	74.105	93.137	88.683	48.593
85.0	47.783	39.280	53.048	153.879	395.225	196.398	29.561	32.396	26.726	20.652
87.5	8.504	6.479	7.289	12.553	88.683	55.882	6.074	6.074	3.644	2.025
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

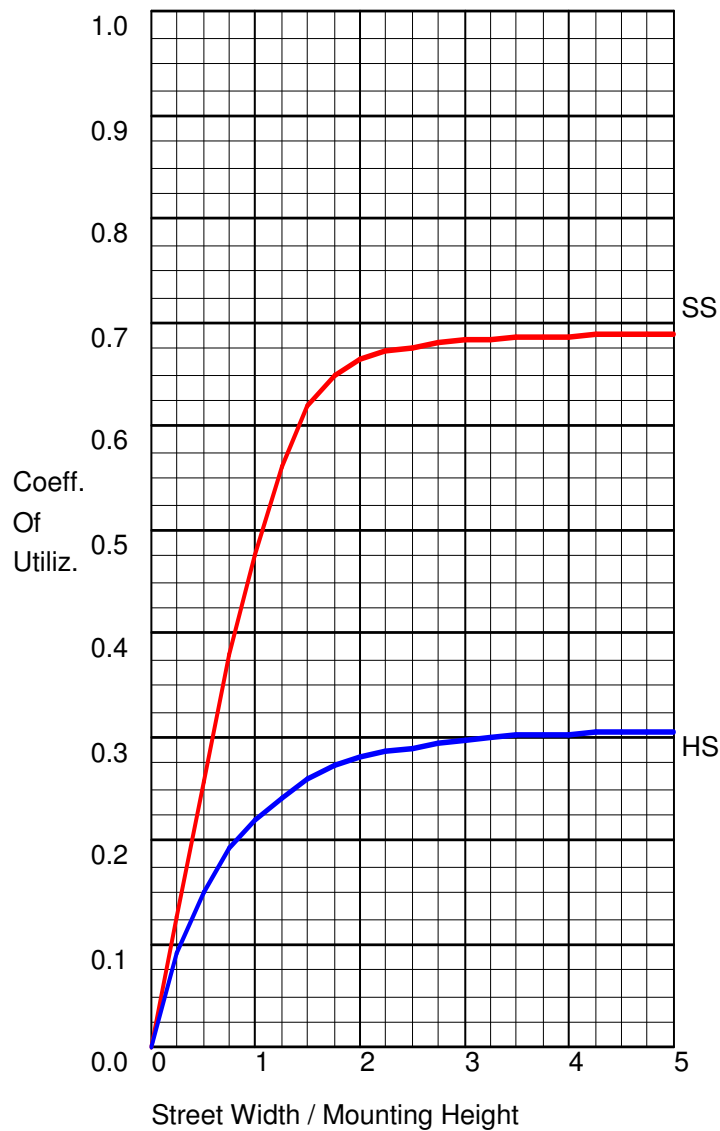
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	1641.643	1641.643
2.5	1546.076	1542.431
5.0	1377.214	1372.355
7.5	1089.704	1085.655
10.0	838.234	836.614
12.5	812.317	811.508
15.0	811.913	812.317
17.5	807.863	807.053
20.0	788.831	787.616
22.5	765.749	763.724
25.0	739.833	737.403
27.5	714.321	713.916
30.0	692.454	691.239
32.5	671.397	670.182
35.0	651.150	649.530
37.5	625.638	624.424
40.0	598.102	598.102
42.5	566.921	566.517
45.0	543.030	541.410
47.5	531.691	532.501
50.0	603.366	611.060
52.5	761.700	772.228
55.0	928.131	945.139
57.5	1020.054	1042.731
60.0	927.322	930.561
62.5	774.658	764.939
65.0	627.663	613.085

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L83-730-T3-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	519.948	517.113
70.0	440.984	438.149
72.5	365.259	361.615
75.0	235.677	233.653
77.5	137.681	134.036
80.0	89.898	88.278
82.5	55.882	55.072
85.0	11.743	10.933
87.5	0.405	0.000
90.0	0.000	0.000

COEFFICIENTS OF UTILIZATION



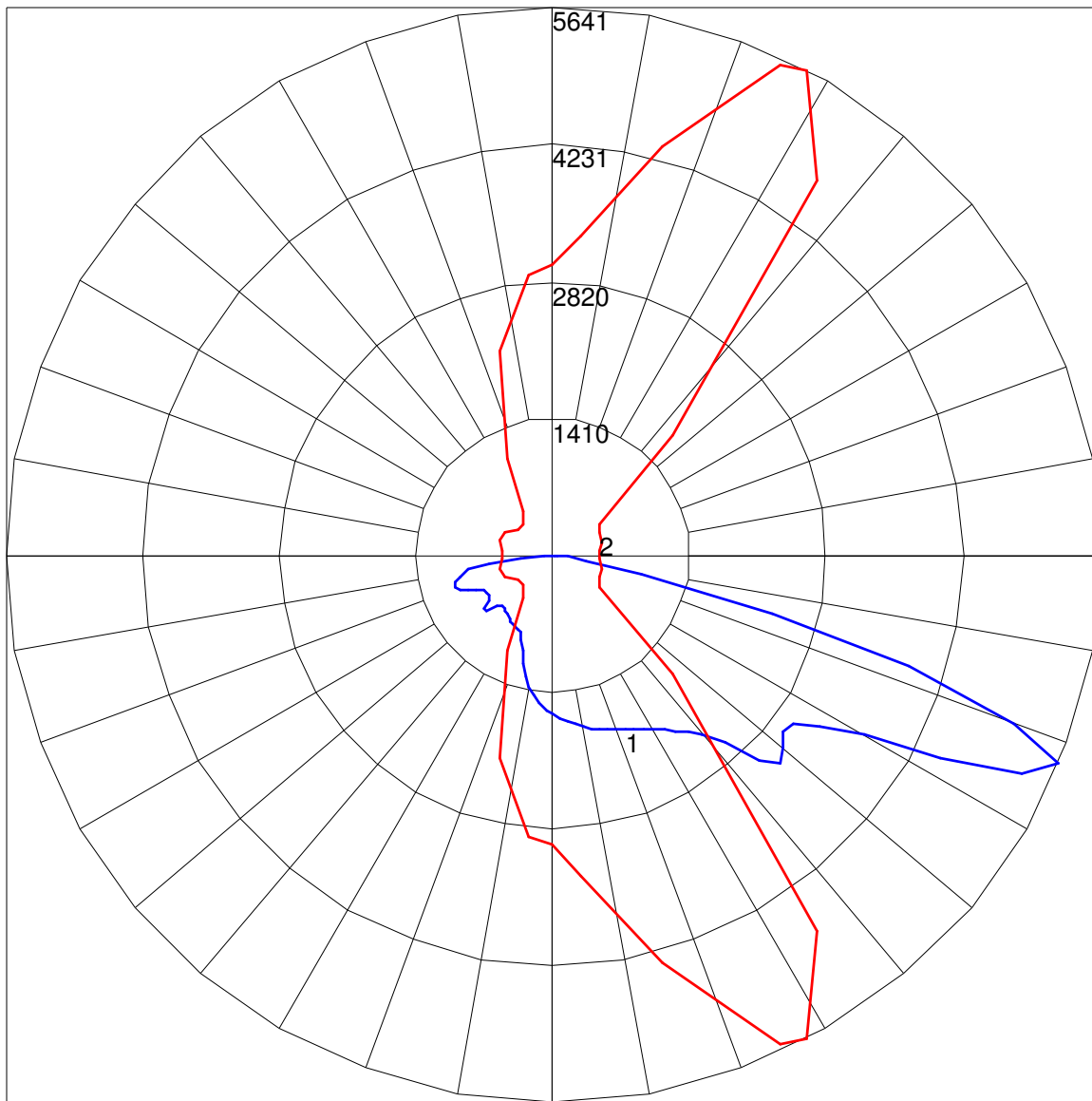
FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	5438.8	69.1
Downward House Side	2430.7	30.9
Downward Total	7869.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7869.5	100.0

IES ROAD REPORT

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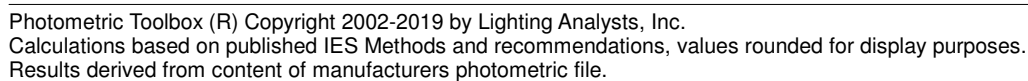
POLAR GRAPH



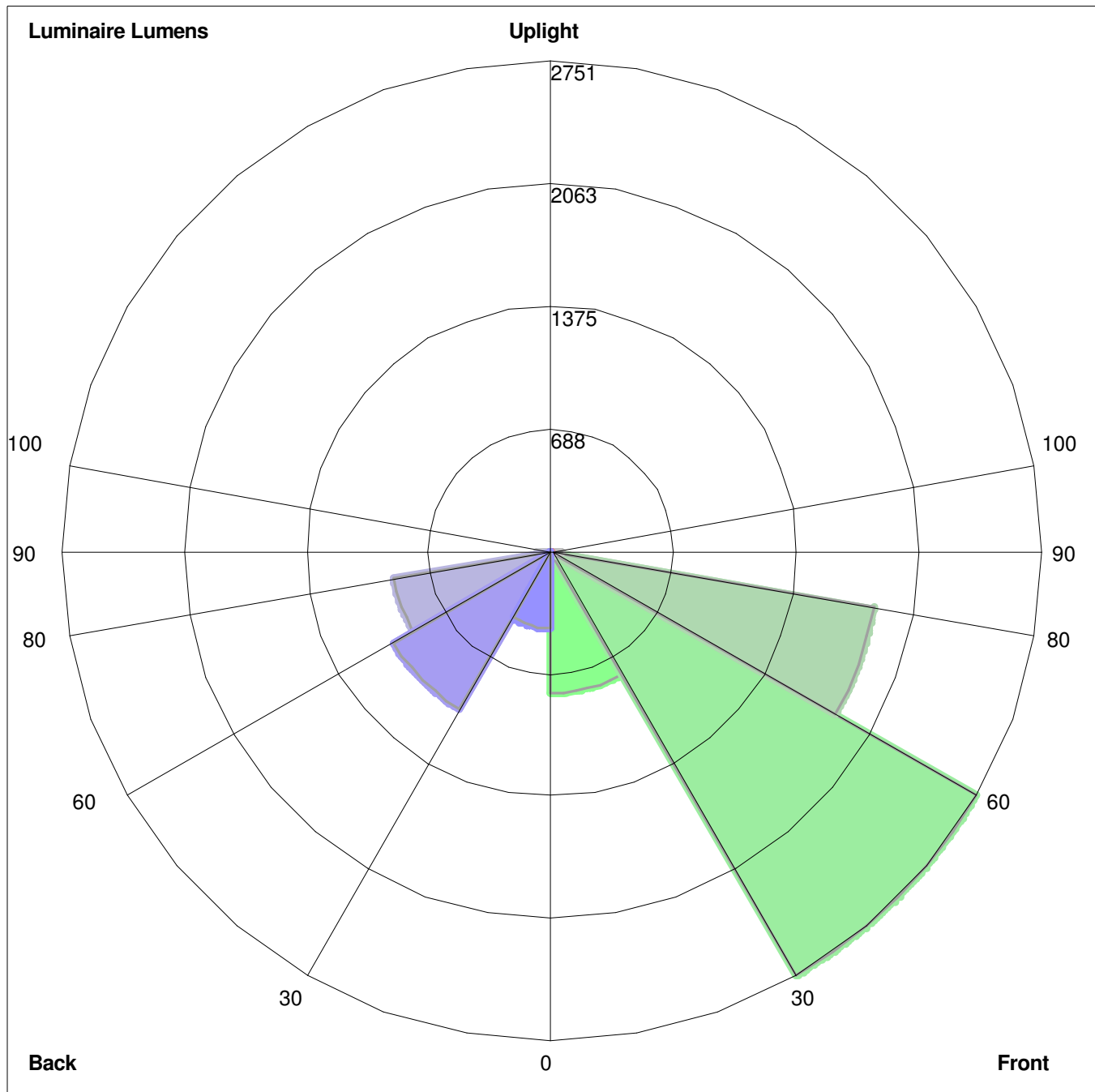
Maximum Candela = 5640.869 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5

1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=794.1, Medium=2750.6, High= 1838.0, Very High=56.1
Back: Low=431.1, Medium=1022.2, High=895.6, Very High=81.8
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2