



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L83-740-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-L83-740-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	8648
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6198.756
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	6198.756
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	1264.226 (14.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L83-740-T3-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	872.6	N.A.	10.1
FM - Front-Medium (30-60)	3022.6	N.A.	35.0
FH - Front-High (60-80)	2019.8	N.A.	23.4
FVH - Front-Very High (80-90)	61.7	N.A.	0.7
BL - Back-Low (0-30)	473.7	N.A.	5.5
BM - Back-Medium (30-60)	1123.3	N.A.	13.0
BH - Back-High (60-80)	984.2	N.A.	11.4
BVH - Back-Very High (80-90)	89.9	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	8647.8	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	1804.003	1804.003	1804.003	1804.003	1804.003	1804.003	1804.003	1804.003	1804.003	1804.003
2.5	1896.561	1883.212	1880.097	1879.652	1870.307	1865.857	1852.062	1845.387	1839.602	1828.032
5.0	1993.125	1981.110	1974.880	1968.650	1952.631	1937.946	1913.471	1892.556	1883.212	1852.952
7.5	2028.279	2018.045	2013.150	2013.150	2008.255	1997.130	1968.205	1940.171	1929.491	1882.767
10.0	2007.365	2001.580	1996.685	2002.915	2010.925	2021.160	2012.260	1985.560	1976.215	1918.366
12.5	1990.900	1987.340	1981.555	1988.230	1996.685	2015.375	2027.834	2019.380	2015.375	1956.635
15.0	1997.130	1994.460	1985.560	1986.005	1990.455	2009.145	2032.284	2040.739	2043.854	2002.470
17.5	2029.169	2026.499	2014.040	2006.920	2001.580	2015.820	2041.629	2059.874	2067.439	2048.304
20.0	2069.219	2070.554	2054.979	2047.414	2034.954	2041.184	2062.544	2086.129	2093.693	2093.693
22.5	2111.493	2111.493	2099.478	2094.138	2087.019	2086.129	2098.143	2123.063	2128.848	2139.528
25.0	2144.423	2144.868	2138.193	2137.748	2144.868	2146.648	2147.983	2164.447	2171.122	2184.027
27.5	2172.012	2173.792	2163.557	2172.012	2197.822	2215.177	2212.507	2211.617	2218.737	2227.636
30.0	2202.717	2200.937	2189.812	2192.037	2237.426	2291.270	2289.490	2269.021	2270.356	2271.691
32.5	2205.387	2205.832	2204.052	2211.617	2261.901	2368.254	2374.484	2341.110	2332.210	2315.300
35.0	2188.032	2190.702	2201.827	2235.201	2299.280	2438.563	2480.393	2428.773	2408.749	2355.349
37.5	2164.002	2168.007	2185.362	2265.016	2395.399	2512.432	2597.871	2527.117	2488.402	2382.939
40.0	2136.858	2143.533	2173.347	2339.775	2647.710	2804.348	2757.623	2639.255	2583.186	2411.419
42.5	2098.143	2110.603	2147.538	2299.280	2652.605	3096.263	3151.887	2870.652	2761.183	2458.143
45.0	2173.792	2180.022	2162.667	2265.461	2584.076	3056.659	3411.764	3304.075	3178.142	2625.015
47.5	2395.399	2389.169	2360.244	2378.934	2560.491	2944.521	3405.089	3504.322	3473.618	3051.764
50.0	2387.389	2378.489	2434.113	2560.491	2669.960	2902.246	3239.106	3415.323	3405.979	3107.388
52.5	2175.127	2167.562	2305.510	2574.286	2858.192	3030.404	3171.022	3280.491	3284.050	3011.270
55.0	1678.960	1691.864	1950.406	2471.048	3016.165	3404.199	3359.699	3341.900	3342.345	3082.469
57.5	1257.106	1290.926	1522.322	2119.503	3021.504	3977.350	3875.892	3594.211	3555.051	3210.627
60.0	1014.140	1034.164	1163.212	1487.168	2618.341	4329.340	4845.087	4091.713	3968.450	3472.283
62.5	732.904	752.039	821.903	975.425	1821.358	4083.703	5786.693	4960.785	4685.334	3915.051
65.0	586.946	598.516	642.570	678.170	1018.590	3371.714	5837.422	5875.246	5560.636	4457.943
67.5	513.967	517.082	575.821	584.721	625.661	1900.566	5196.632	6198.756	6124.443	4786.793
70.0	407.614	400.049	485.043	510.852	483.708	928.701	3939.081	5559.301	5736.408	4851.317
72.5	287.021	279.456	312.830	434.313	381.359	527.762	2180.467	4231.886	4557.176	4377.399
75.0	221.607	219.382	222.497	334.635	316.390	342.200	954.066	2568.946	2903.136	2922.716
77.5	153.078	151.298	154.858	222.942	269.666	235.846	409.839	1023.930	1361.679	1903.681
80.0	98.789	97.009	101.903	140.618	235.846	155.303	214.487	392.484	578.046	1264.226
82.5	53.844	52.064	58.294	83.214	156.638	86.329	112.583	167.317	209.147	578.936
85.0	22.695	21.360	25.365	37.824	55.624	36.044	45.834	59.629	67.639	127.268
87.5	4.450	4.450	4.895	8.455	10.235	7.565	8.900	11.570	12.460	15.130
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	1804.003	1804.003	1804.003	1804.003	1804.003	1804.003	1804.003	1804.003	1804.003	1804.003
2.5	1812.013	1805.783	1799.998	1781.753	1768.403	1748.379	1729.689	1725.239	1706.994	1699.874
5.0	1817.798	1799.108	1783.978	1743.929	1703.879	1657.600	1612.211	1582.396	1541.012	1518.317
7.5	1828.922	1799.108	1773.743	1707.884	1636.240	1550.357	1458.688	1376.364	1276.241	1231.741
10.0	1845.387	1805.783	1767.958	1674.510	1561.926	1409.739	1231.296	1083.114	979.875	935.376
12.5	1866.747	1817.798	1766.178	1640.245	1472.038	1221.062	1000.345	918.021	900.221	893.992
15.0	1894.781	1836.042	1771.518	1607.316	1357.675	1035.054	914.906	897.106	891.322	890.877
17.5	1928.601	1860.072	1782.643	1572.161	1217.057	932.706	902.001	893.992	890.432	888.652
20.0	1965.980	1889.441	1799.108	1531.667	1079.109	906.896	895.771	889.987	880.197	870.852
22.5	2009.590	1925.486	1818.688	1483.163	980.320	898.886	886.872	873.522	860.172	847.267
25.0	2056.759	1961.085	1837.822	1426.203	935.376	892.212	870.852	849.937	834.362	819.678
27.5	2108.378	1998.020	1852.062	1359.899	919.356	882.867	849.492	824.573	808.553	792.533

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CANDELA TABULATION - (Cont.)

30.0	2161.777	2037.624	1870.752	1291.371	908.231	867.737	826.798	797.428	780.518	767.613
32.5	2213.397	2080.789	1892.111	1228.181	896.661	848.157	802.323	769.393	755.599	745.809
35.0	2252.111	2108.823	1907.241	1167.662	880.642	825.018	780.518	741.804	728.899	724.004
37.5	2266.351	2111.493	1904.126	1117.378	861.062	800.543	757.824	719.109	704.869	695.970
40.0	2280.591	2118.613	1903.236	1082.669	844.152	777.403	738.244	697.304	679.060	667.490
42.5	2299.725	2133.743	1912.581	1056.859	829.022	757.379	720.889	678.615	649.690	636.340
45.0	2402.519	2242.321	1998.465	1067.539	821.013	740.914	707.539	661.705	621.656	607.861
47.5	2684.645	2484.843	2229.861	1221.062	884.202	736.909	699.529	656.810	606.971	595.401
50.0	2740.714	2536.907	2274.806	1318.960	1052.409	821.013	702.199	663.485	625.661	651.915
52.5	2671.740	2470.158	2212.062	1204.597	996.340	932.706	760.494	670.160	680.395	786.303
55.0	2750.949	2563.161	2335.770	1258.886	899.776	821.013	810.333	683.065	731.569	916.241
57.5	2865.757	2699.774	2539.132	1505.857	887.762	736.909	705.314	679.950	755.599	977.650
60.0	3039.304	2861.307	2790.108	1860.072	909.121	695.080	623.436	609.196	746.254	931.371
62.5	3303.630	3086.473	3046.424	2206.722	963.410	660.815	570.481	564.696	710.654	829.022
65.0	3554.161	3226.646	3140.318	2348.675	1075.104	631.890	523.757	525.982	661.260	714.659
67.5	3645.830	3284.940	3199.057	2389.169	1204.597	594.066	477.033	480.148	587.391	622.546
70.0	3569.736	3271.591	3244.446	2347.340	1318.515	558.912	420.964	424.969	517.972	546.007
72.5	3122.073	2896.906	2934.286	2183.137	1390.159	522.422	363.115	363.560	445.883	461.903
75.0	1939.281	1819.578	1892.111	1783.978	1381.259	495.723	299.035	300.370	371.124	349.320
77.5	1297.600	1158.318	1201.482	1407.514	1289.591	468.133	237.626	235.401	287.021	187.787
80.0	958.961	838.812	899.331	1079.999	1136.068	439.653	162.423	169.097	192.682	94.339
82.5	383.584	354.215	408.949	608.751	857.057	361.335	81.434	102.348	97.454	53.399
85.0	52.509	43.164	58.294	169.097	434.313	215.822	32.485	35.599	29.370	22.695
87.5	9.345	7.120	8.010	13.795	97.454	61.409	6.675	6.675	4.005	2.225
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

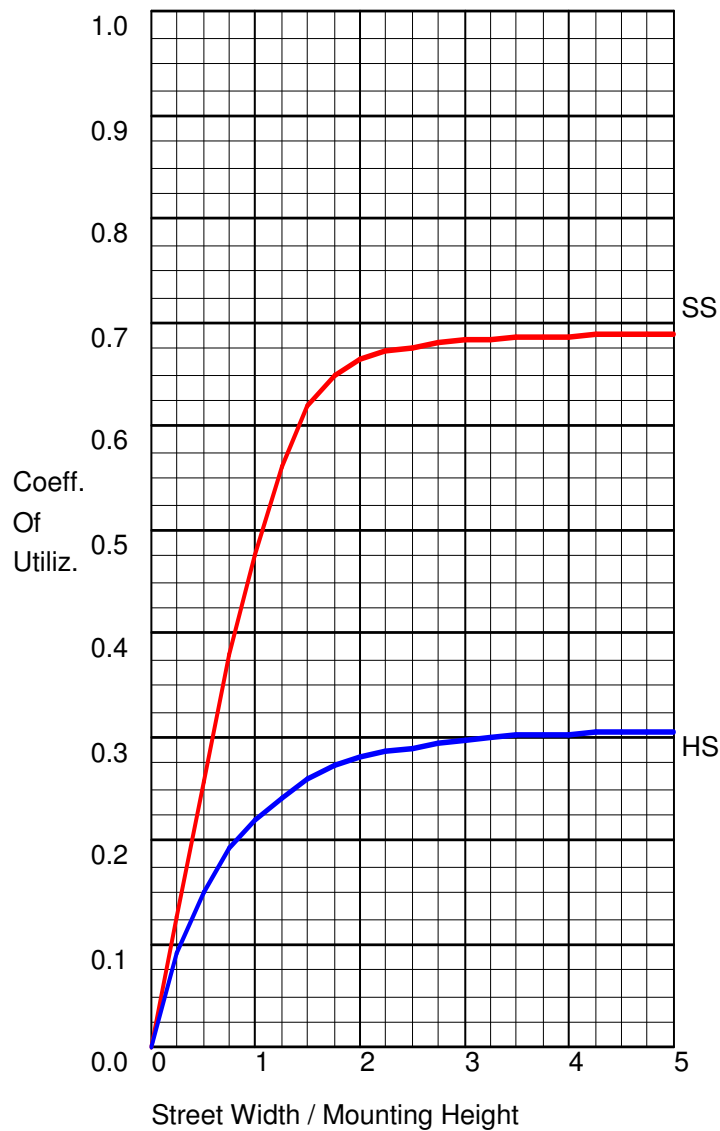
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	1804.003	1804.003
2.5	1698.984	1694.979
5.0	1513.422	1508.082
7.5	1197.477	1193.027
10.0	921.136	919.356
12.5	892.657	891.767
15.0	892.212	892.657
17.5	887.762	886.872
20.0	866.847	865.512
22.5	841.482	839.257
25.0	813.003	810.333
27.5	784.968	784.523
30.0	760.939	759.604
32.5	737.799	736.464
35.0	715.549	713.769
37.5	687.515	686.180
40.0	657.255	657.255
42.5	622.991	622.546
45.0	596.736	594.956
47.5	584.276	585.166
50.0	663.040	671.495
52.5	837.032	848.602
55.0	1019.925	1038.614
57.5	1120.938	1145.858
60.0	1019.035	1022.595
62.5	851.272	840.592
65.0	689.740	673.720

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L83-740-T3-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	571.371	568.256
70.0	484.598	481.483
72.5	401.384	397.379
75.0	258.986	256.761
77.5	151.298	147.293
80.0	98.789	97.009
82.5	61.409	60.519
85.0	12.905	12.015
87.5	0.445	0.000
90.0	0.000	0.000

COEFFICIENTS OF UTILIZATION



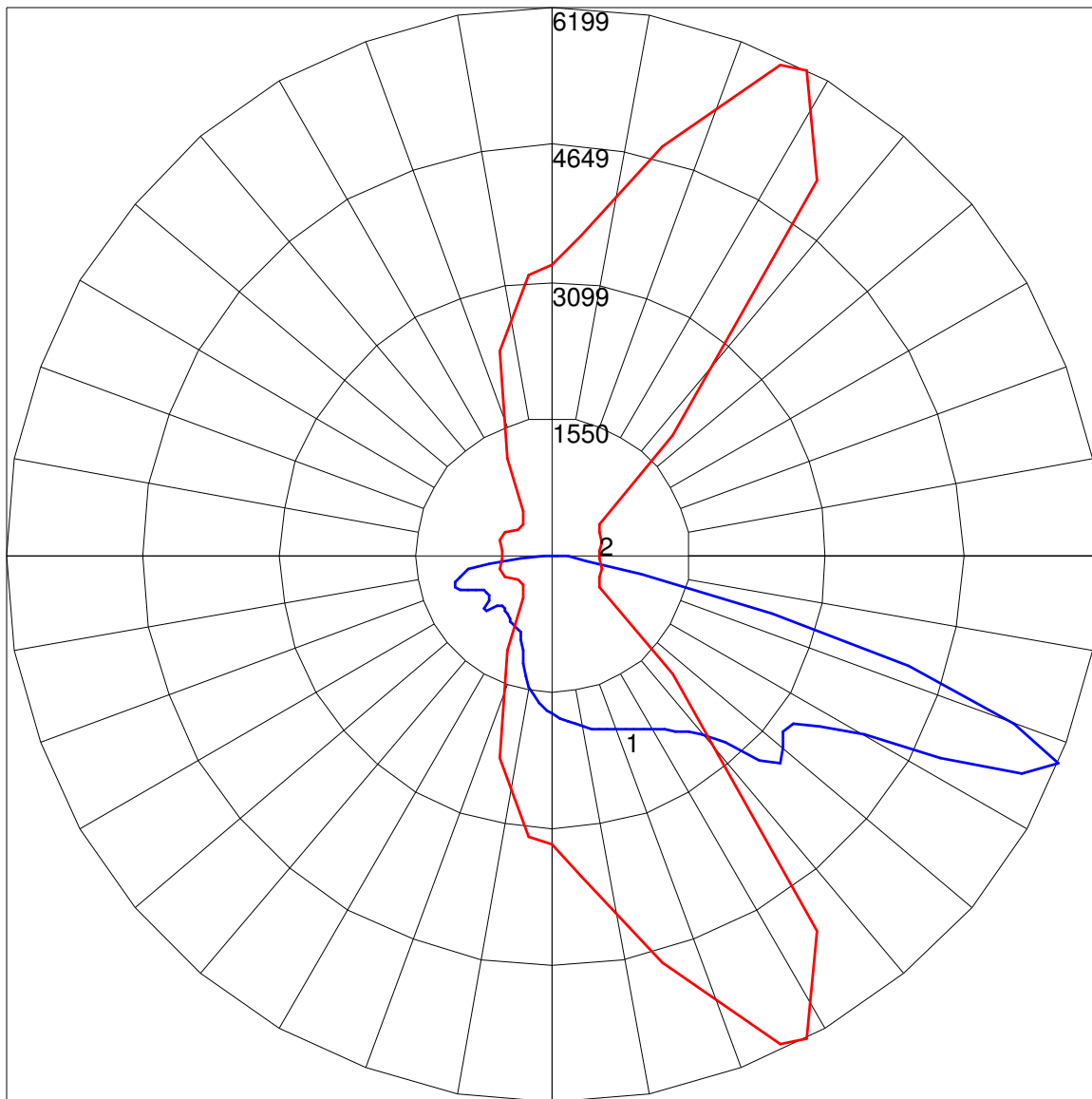
FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	5976.7	69.1
Downward House Side	2671.1	30.9
Downward Total	8647.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	8647.8	100.0

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POLAR GRAPH

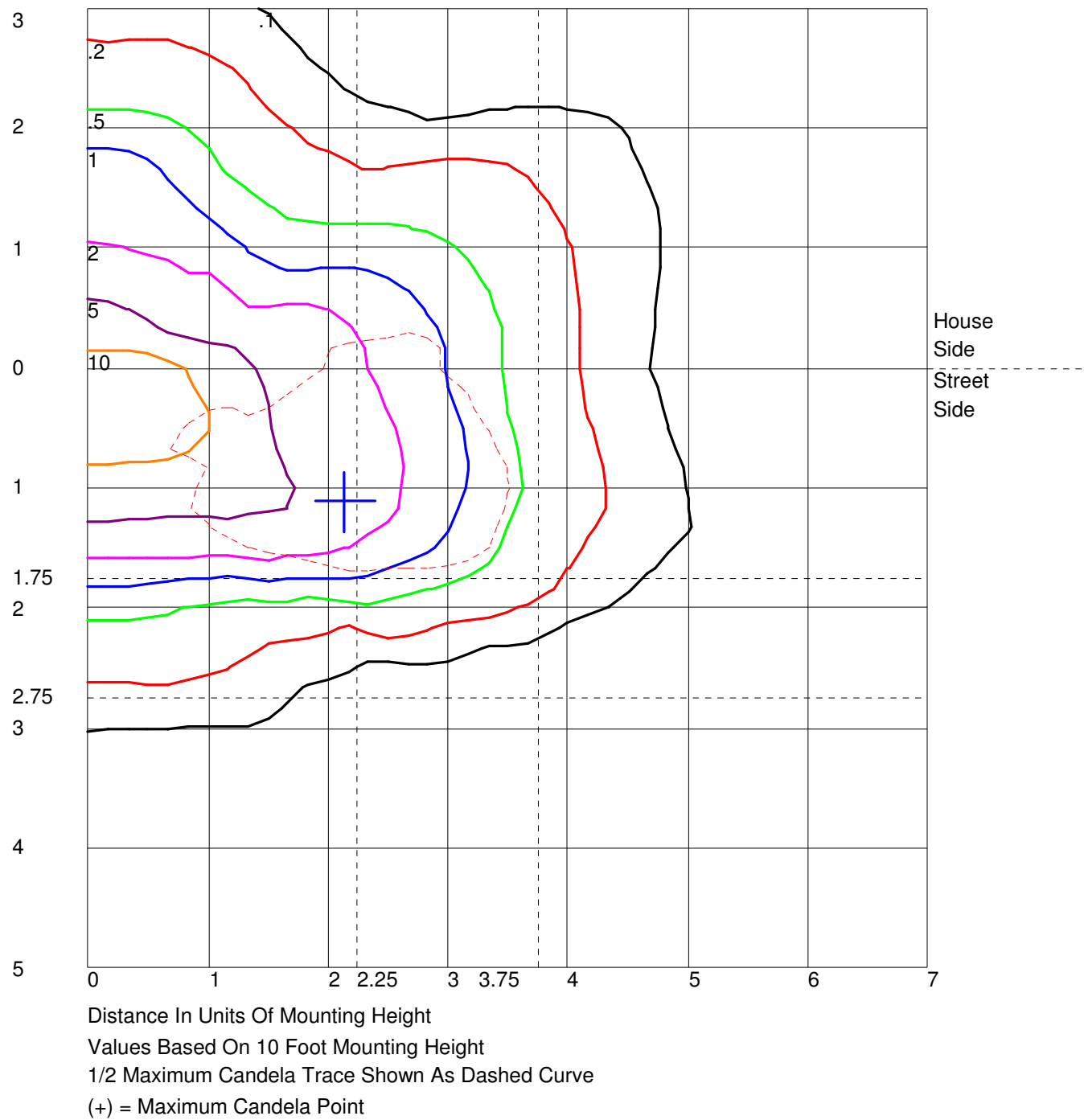


Maximum Candela = 6198.756 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5

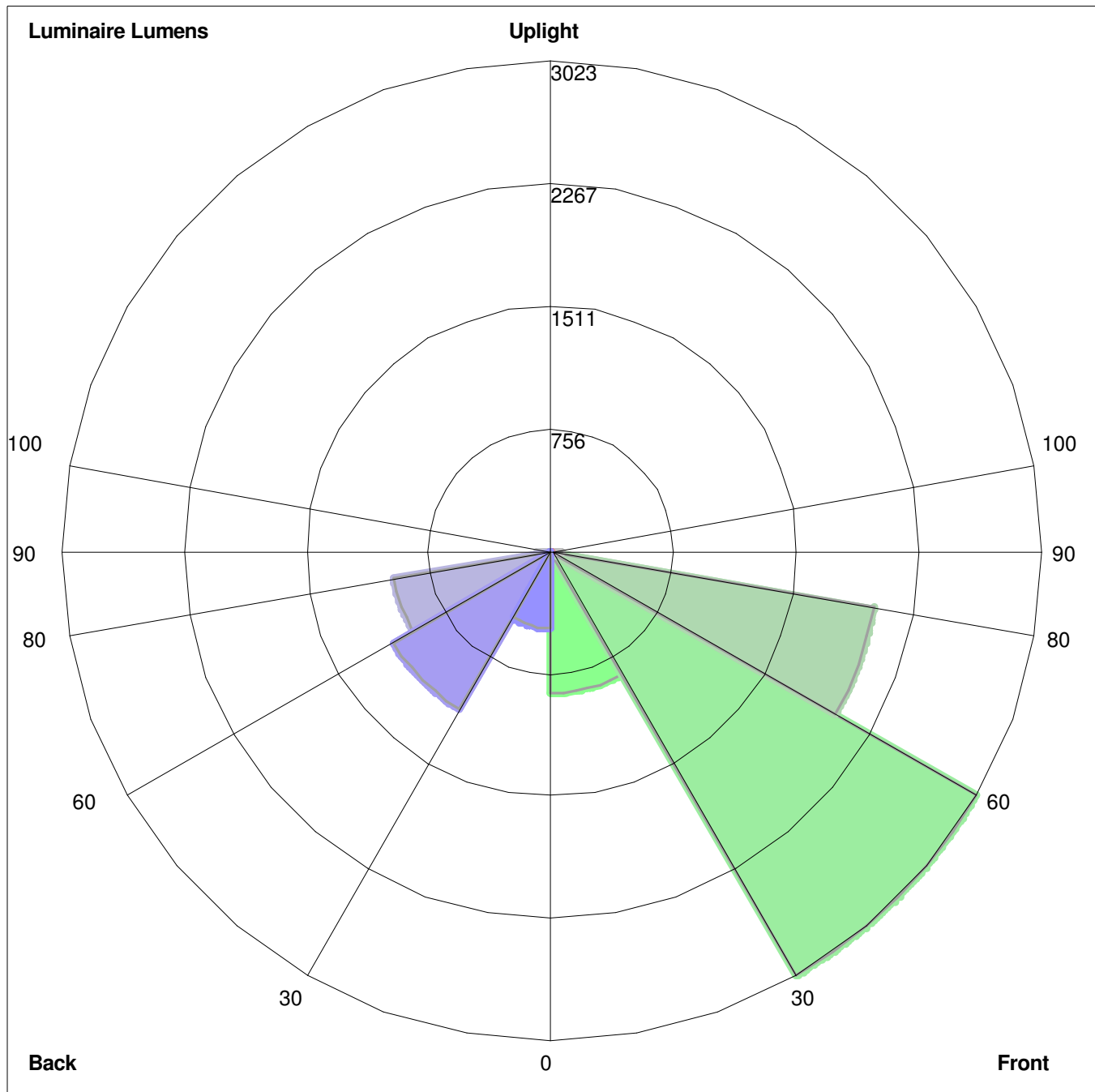
1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)

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

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=872.6, Medium=3022.6, High=2019.8, Very High=61.7
Back: Low=473.7, Medium=1123.3, High=984.2, Very High=89.9
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2