



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L83-750-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-L83-750-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	8907
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6384.719
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	6384.719
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	1302.153 (14.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L83-750-T3-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	898.8	N.A.	10.1
FM - Front-Medium (30-60)	3113.3	N.A.	35.0
FH - Front-High (60-80)	2080.4	N.A.	23.4
FVH - Front-Very High (80-90)	63.5	N.A.	0.7
BL - Back-Low (0-30)	487.9	N.A.	5.5
BM - Back-Medium (30-60)	1157.0	N.A.	13.0
BH - Back-High (60-80)	1013.7	N.A.	11.4
BVH - Back-Very High (80-90)	92.6	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	8907.2	N.A.	100.0
BUG Rating	B3-U0-G3		

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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	1858.123	1858.123	1858.123	1858.123	1858.123	1858.123	1858.123	1858.123	1858.123	1858.123
2.5	1953.458	1939.708	1936.500	1936.041	1926.416	1921.833	1907.624	1900.749	1894.790	1882.873
5.0	2052.919	2040.543	2034.127	2027.710	2011.209	1996.084	1970.875	1949.333	1939.708	1908.541
7.5	2089.128	2078.586	2073.544	2073.544	2068.502	2057.044	2027.251	1998.376	1987.376	1939.250
10.0	2067.586	2061.627	2056.585	2063.002	2071.252	2081.794	2072.627	2045.127	2035.502	1975.917
12.5	2050.627	2046.960	2041.002	2047.877	2056.585	2075.836	2088.669	2079.961	2075.836	2015.335
15.0	2057.044	2054.294	2045.127	2045.585	2050.169	2069.419	2093.253	2101.961	2105.170	2062.544
17.5	2090.044	2087.294	2074.461	2067.127	2061.627	2076.294	2102.878	2121.670	2129.462	2109.753
20.0	2131.295	2132.670	2116.628	2108.837	2096.003	2102.420	2124.420	2148.712	2156.504	2156.504
22.5	2174.838	2174.838	2162.463	2156.963	2149.629	2148.712	2161.088	2186.755	2192.713	2203.714
25.0	2208.755	2209.214	2202.339	2201.880	2209.214	2211.047	2212.422	2229.381	2236.256	2249.548
27.5	2237.173	2239.006	2228.464	2237.173	2263.757	2281.632	2278.882	2277.965	2285.299	2294.466
30.0	2268.798	2266.965	2255.506	2257.798	2304.549	2360.009	2358.175	2337.091	2338.466	2339.841
32.5	2271.548	2272.007	2270.173	2277.965	2329.758	2439.302	2445.719	2411.343	2402.176	2384.759
35.0	2253.673	2256.423	2267.882	2302.257	2368.259	2511.720	2554.804	2501.637	2481.011	2426.010
37.5	2228.922	2233.048	2250.923	2332.966	2467.261	2587.805	2675.807	2602.930	2563.055	2454.427
40.0	2200.964	2207.839	2238.548	2409.968	2727.141	2888.478	2840.352	2718.433	2660.682	2483.761
42.5	2161.088	2173.921	2211.964	2368.259	2732.183	3189.151	3246.444	2956.771	2844.019	2531.887
45.0	2239.006	2245.423	2227.547	2333.425	2661.598	3148.359	3514.116	3403.197	3273.486	2703.766
47.5	2467.261	2460.844	2431.052	2450.302	2637.306	3032.856	3507.241	3609.452	3577.826	3143.317
50.0	2459.011	2449.844	2507.137	2637.306	2750.059	2989.314	3336.279	3517.783	3508.158	3200.610
52.5	2240.381	2232.589	2374.676	2651.515	2943.938	3121.316	3266.153	3378.905	3382.572	3101.608
55.0	1729.328	1742.620	2008.918	2545.179	3106.649	3506.325	3460.490	3442.157	3442.615	3174.943
57.5	1294.819	1329.653	1567.992	2183.088	3112.150	4096.671	3992.168	3702.037	3661.703	3306.945
60.0	1044.564	1065.189	1198.109	1531.783	2696.891	4459.220	4990.440	4214.465	4087.504	3576.451
62.5	754.891	774.600	846.560	1004.688	1875.998	4206.215	5960.294	5109.609	4825.894	4032.502
65.0	604.555	616.471	661.847	698.515	1049.147	3472.866	6012.545	6051.504	5727.455	4591.681
67.5	529.386	532.595	593.096	602.263	644.430	1957.583	5352.531	6384.719	6308.176	4930.397
70.0	419.842	412.050	499.594	526.178	498.219	956.562	4057.253	5726.080	5908.501	4996.856
72.5	295.631	287.839	322.215	447.343	392.800	543.595	2245.881	4358.843	4693.892	4508.721
75.0	228.255	225.963	229.172	344.674	325.882	352.466	982.688	2646.015	2990.230	3010.397
77.5	157.670	155.837	159.503	229.630	277.756	242.922	422.134	1054.647	1402.530	1960.792
80.0	101.752	99.919	104.961	144.836	242.922	159.962	220.921	404.259	595.388	1302.153
82.5	55.460	53.626	60.043	85.710	161.337	88.919	115.961	172.337	215.421	596.304
85.0	23.375	22.000	26.126	38.959	57.293	37.126	47.209	61.418	69.668	131.086
87.5	4.583	4.583	5.042	8.709	10.542	7.792	9.167	11.917	12.834	15.584
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	1858.123	1858.123	1858.123	1858.123	1858.123	1858.123	1858.123	1858.123	1858.123	1858.123
2.5	1866.373	1859.956	1853.998	1835.206	1821.455	1800.830	1781.580	1776.996	1758.204	1750.871
5.0	1872.332	1853.081	1837.497	1796.247	1754.996	1707.328	1660.577	1629.868	1587.242	1563.867
7.5	1883.790	1853.081	1826.956	1759.121	1685.328	1596.867	1502.449	1417.655	1314.528	1268.694
10.0	1900.749	1859.956	1820.997	1724.745	1608.784	1452.031	1268.235	1115.607	1009.271	963.437
12.5	1922.749	1872.332	1819.164	1689.453	1516.199	1257.693	1030.355	945.562	927.228	920.811
15.0	1951.625	1891.124	1824.664	1655.535	1398.405	1066.106	942.353	924.020	918.061	917.603
17.5	1986.459	1915.874	1836.122	1619.326	1253.568	960.687	929.061	920.811	917.145	915.311
20.0	2024.960	1946.125	1853.081	1577.617	1111.482	934.103	922.645	916.686	906.603	896.977
22.5	2069.877	1983.251	1873.248	1527.658	1009.730	925.853	913.478	899.727	885.977	872.685
25.0	2118.462	2019.918	1892.957	1468.990	963.437	918.978	896.977	875.435	859.393	844.268
27.5	2171.630	2057.960	1907.624	1400.696	946.937	909.353	874.977	849.310	832.809	816.309

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CANDELA TABULATION - (Cont.)

30.0	2226.631	2098.753	1926.874	1330.112	935.478	893.769	851.601	821.351	803.934	790.642
32.5	2279.799	2143.212	1948.875	1265.027	923.561	873.602	826.393	792.475	778.267	768.183
35.0	2319.674	2172.088	1964.458	1202.692	907.061	849.768	803.934	764.058	750.766	745.724
37.5	2334.341	2174.838	1961.250	1150.899	886.894	824.559	780.558	740.682	726.015	716.849
40.0	2349.008	2182.171	1960.333	1115.149	869.477	800.725	760.391	718.224	699.432	687.515
42.5	2368.717	2197.755	1969.959	1088.565	853.893	780.100	742.516	698.973	669.181	655.431
45.0	2474.594	2309.591	2058.419	1099.565	845.643	763.141	728.766	681.556	640.305	626.097
47.5	2765.184	2559.388	2296.757	1257.693	910.728	759.016	720.515	676.514	625.180	613.263
50.0	2822.935	2613.014	2343.050	1358.529	1083.981	845.643	723.265	683.390	644.430	671.473
52.5	2751.892	2544.262	2278.423	1240.735	1026.230	960.687	783.308	690.265	700.807	809.892
55.0	2833.477	2640.056	2405.843	1296.653	926.770	845.643	834.643	703.557	753.516	943.728
57.5	2951.729	2780.768	2615.306	1551.033	914.394	759.016	726.474	700.348	778.267	1006.980
60.0	3130.483	2947.146	2873.811	1915.874	936.395	715.932	642.139	627.472	768.641	959.312
62.5	3402.739	3179.068	3137.817	2272.923	992.313	680.639	587.596	581.637	731.974	853.893
65.0	3660.786	3323.446	3234.527	2419.135	1107.357	650.847	539.470	541.762	681.098	736.099
67.5	3755.205	3383.489	3295.028	2460.844	1240.735	611.888	491.344	494.552	605.013	641.222
70.0	3676.828	3369.738	3341.779	2417.760	1358.071	575.679	433.593	437.718	533.511	562.387
72.5	3215.735	2983.814	3022.314	2248.631	1431.864	538.095	374.008	374.466	459.260	475.760
75.0	1997.459	1874.165	1948.875	1837.497	1422.697	510.594	308.007	309.382	382.258	359.799
77.5	1336.528	1193.067	1237.526	1449.739	1328.278	482.177	244.755	242.463	295.631	193.421
80.0	987.729	863.977	926.311	1112.399	1170.150	452.843	167.295	174.170	198.463	97.169
82.5	395.092	364.841	421.217	627.013	882.769	372.175	83.877	105.419	100.377	55.001
85.0	54.084	44.459	60.043	174.170	447.343	222.296	33.459	36.667	30.251	23.375
87.5	9.625	7.333	8.250	14.209	100.377	63.251	6.875	6.875	4.125	2.292
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

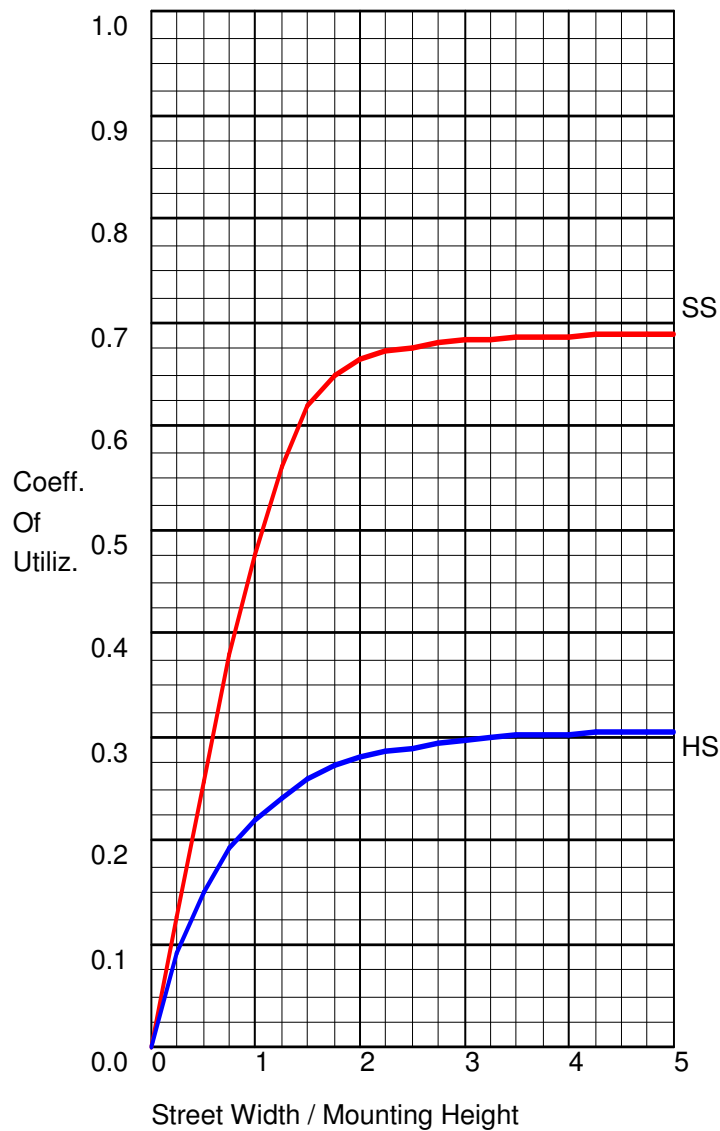
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	1858.123	1858.123
2.5	1749.954	1745.829
5.0	1558.825	1553.325
7.5	1233.401	1228.818
10.0	948.770	946.937
12.5	919.436	918.520
15.0	918.978	919.436
17.5	914.394	913.478
20.0	892.852	891.477
22.5	866.727	864.435
25.0	837.393	834.643
27.5	808.517	808.059
30.0	783.767	782.392
32.5	759.933	758.558
35.0	737.016	735.182
37.5	708.140	706.765
40.0	676.973	676.973
42.5	641.680	641.222
45.0	614.638	612.805
47.5	601.804	602.721
50.0	682.931	691.640
52.5	862.143	874.060
55.0	1050.522	1069.773
57.5	1154.566	1180.233
60.0	1049.606	1053.272
62.5	876.810	865.810
65.0	710.432	693.931

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L83-750-T3-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	588.513	585.304
70.0	499.136	495.927
72.5	413.425	409.300
75.0	266.756	264.464
77.5	155.837	151.712
80.0	101.752	99.919
82.5	63.251	62.335
85.0	13.292	12.375
87.5	0.458	0.000
90.0	0.000	0.000

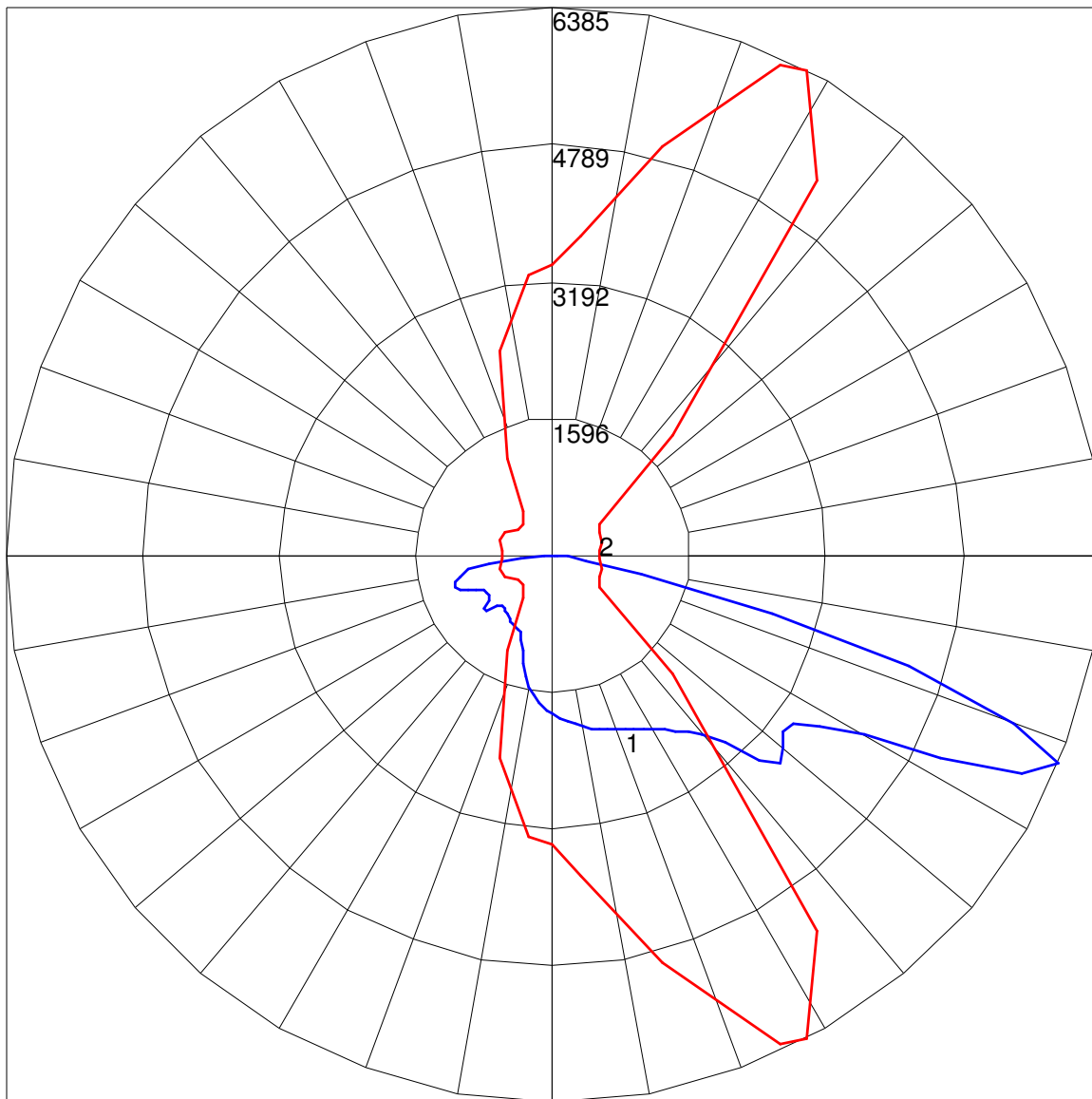
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

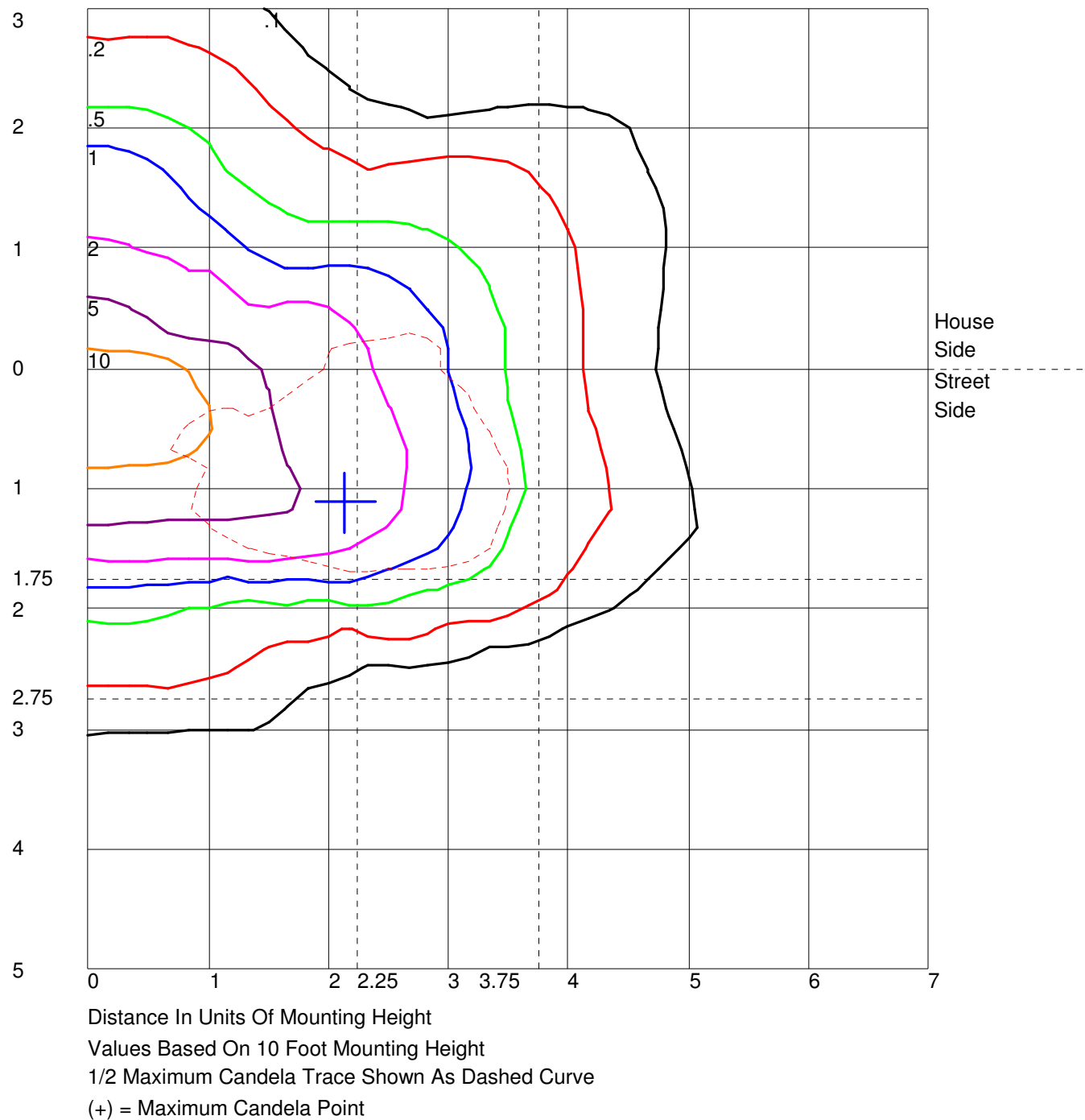
	Lumens	Percent Of Luminaire
Downward Street Side	6156.0	69.1
Downward House Side	2751.3	30.9
Downward Total	8907.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	8907.3	100.0

POLAR GRAPH

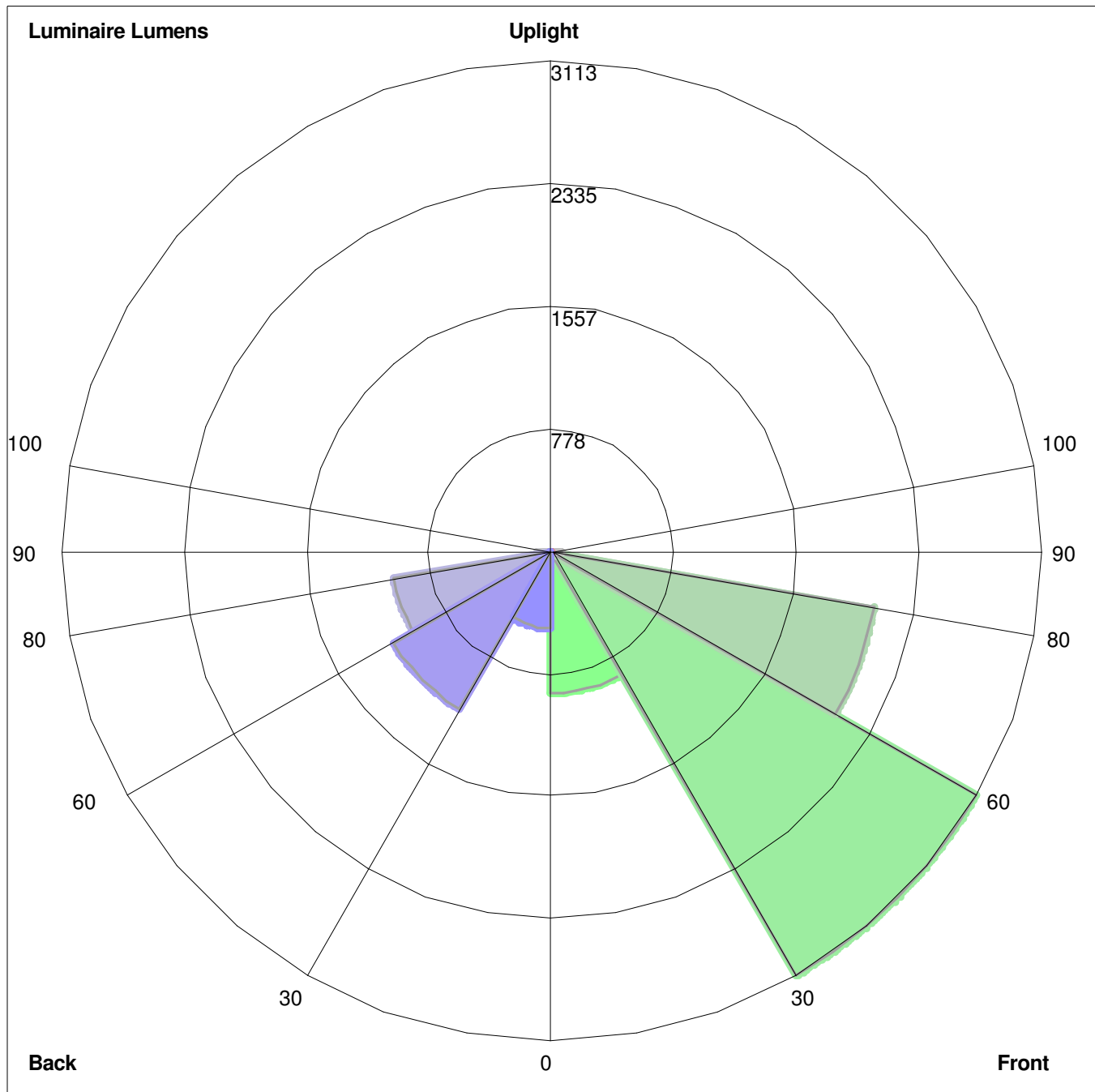


Maximum Candela = 6384.719 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=898.8, Medium=3113.3, High=2080.4, Very High=63.5
Back: Low=487.9, Medium= 1157.0, High=1013.7, Very High=92.6
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3