



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L83-750-T4-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011762
[TESTLAB] ATA-LABS
[ISSUE DATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA1-L83-750-T4-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA1 LED AREA LIGHT FIXTURE WITH TYPE IV
[MORE] OPTICS AND CLEAR LENS
[LAMP] LED
[BALLASTCAT] X1-EUD-200S105DT
[BALLAST] (1) INVENTRONICS ELECTRONIC DRIVER
[_SEARCH_ SOURCETYPE] LED
[_SEARCH_ APPLICATION] Outdoor, Architectural, Area, Parking, Site
[_SEARCH_ MOUNTING] Pole

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8720
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8103.99
Maximum Candela Angle	42.5H 72.5V
Maximum Candela (<90 Degrees Vertical)	8103.99
Maximum Candela Angle (<90 Degrees Vertical)	42.5H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	596.588 (6.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L83-750-T4-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	688.9	N.A.	7.9
FM - Front-Medium (30-60)	2667.5	N.A.	30.6
FH - Front-High (60-80)	3049.1	N.A.	35.0
FVH - Front-Very High (80-90)	54.8	N.A.	0.6
BL - Back-Low (0-30)	464.2	N.A.	5.3
BM - Back-Medium (30-60)	1101.3	N.A.	12.6
BH - Back-High (60-80)	654.5	N.A.	7.5
BVH - Back-Very High (80-90)	39.8	N.A.	0.5
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	8720.1	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>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	1407.913	1407.913	1407.913	1407.913	1407.913	1407.913	1407.913	1407.913	1407.913	1407.913
2.5	1526.526	1519.471	1510.652	1504.479	1497.424	1488.164	1478.904	1468.322	1451.125	1431.283
5.0	1651.752	1646.461	1635.878	1623.973	1602.808	1580.320	1566.651	1532.699	1491.251	1445.834
7.5	1732.443	1729.798	1722.302	1713.924	1690.995	1661.452	1646.461	1593.107	1530.053	1464.794
10.0	1757.136	1758.459	1751.404	1750.963	1737.294	1710.397	1696.727	1637.201	1568.856	1484.637
12.5	1758.018	1760.663	1754.049	1755.372	1751.404	1724.947	1713.042	1663.657	1599.721	1504.920
15.0	1753.167	1755.372	1747.435	1746.553	1746.553	1724.947	1716.129	1679.090	1627.059	1529.612
17.5	1738.176	1740.821	1738.176	1737.294	1733.766	1716.570	1712.160	1697.609	1652.634	1552.541
20.0	1701.137	1704.223	1713.924	1719.215	1719.656	1707.310	1706.428	1711.719	1656.161	1567.092
22.5	1653.957	1657.043	1692.318	1697.168	1695.846	1694.082	1695.846	1692.318	1660.130	1587.375
25.0	1616.918	1623.091	1682.617	1664.980	1667.185	1682.177	1688.791	1683.058	1671.594	1611.186
27.5	1597.957	1614.272	1655.279	1646.461	1653.516	1679.531	1690.995	1693.200	1687.909	1643.815
30.0	1609.863	1623.091	1629.705	1643.815	1666.744	1692.318	1704.223	1721.861	1720.979	1685.704
32.5	1642.933	1635.878	1636.319	1672.035	1703.782	1724.947	1737.294	1766.837	1765.955	1736.853
35.0	1680.413	1664.980	1670.271	1729.798	1759.782	1779.183	1789.324	1822.836	1819.308	1795.938
37.5	1748.758	1735.530	1751.404	1807.844	1836.505	1848.851	1851.937	1875.748	1876.630	1861.638
40.0	1855.906	1844.882	1852.819	1908.377	1943.212	1933.952	1935.716	1923.369	1934.393	1934.834
42.5	1978.487	1966.140	1978.487	2022.139	2062.265	2038.454	2029.635	1979.368	1998.770	2018.612
45.0	2116.500	2108.563	2120.468	2165.444	2209.979	2163.680	2142.515	2087.839	2087.839	2116.059
47.5	2273.915	2258.041	2278.765	2343.142	2345.347	2316.686	2293.757	2229.380	2206.010	2232.467
50.0	2448.967	2426.920	2444.117	2526.131	2497.911	2483.360	2466.604	2419.424	2368.716	2371.362
52.5	2681.782	2671.640	2631.956	2698.096	2678.254	2678.695	2675.168	2676.931	2563.611	2533.627
55.0	3023.949	3012.485	2909.746	2897.841	2880.204	2917.683	2945.021	2960.013	2783.638	2727.198
57.5	3551.311	3523.972	3341.424	3175.191	3097.586	3223.694	3299.535	3231.631	3013.367	2899.605
60.0	3767.370	3760.756	3777.952	3554.397	3377.581	3613.483	3747.528	3530.146	3207.820	3014.249
62.5	3918.611	3949.477	4088.813	4033.696	3743.559	4143.931	4366.163	3838.802	3311.441	3033.209
65.0	4193.316	4260.338	4604.710	4576.049	4349.848	5061.521	5324.761	4226.827	3163.726	2904.896
67.5	4091.900	4197.284	4972.893	5373.264	5156.323	6430.632	6651.101	4433.186	2779.229	2630.633
70.0	3333.487	3406.683	4573.845	5999.836	5991.018	7824.436	7812.089	3943.304	2157.948	2023.903
72.5	2148.688	2275.237	3489.138	5367.532	6012.183	8103.990	7776.374	2436.180	1373.079	942.283
75.0	849.687	892.898	1550.336	3166.813	4527.987	5983.963	4660.268	992.550	788.837	433.001
77.5	526.920	512.369	469.157	910.536	1693.641	1613.390	880.552	403.017	430.796	279.554
80.0	347.900	395.962	274.704	436.528	596.588	440.056	327.176	227.524	247.807	182.548
82.5	185.194	217.382	171.966	225.760	248.248	183.871	174.170	128.754	128.313	104.061
85.0	80.251	102.297	74.959	86.424	97.888	70.991	74.959	59.086	55.558	45.857
87.5	24.692	32.188	16.756	17.197	20.283	14.992	14.110	14.992	11.905	11.905
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	1407.913	1407.913	1407.913	1407.913	1407.913	1407.913	1407.913	1407.913	1407.913	1407.913
2.5	1409.677	1401.299	1392.040	1372.638	1355.442	1335.159	1321.490	1310.025	1303.852	1297.679
5.0	1398.213	1378.371	1356.765	1313.112	1275.191	1240.798	1216.106	1199.791	1189.649	1183.035
7.5	1393.803	1361.615	1329.867	1264.168	1211.696	1173.776	1152.170	1143.351	1136.296	1134.091
10.0	1390.276	1345.741	1302.970	1219.192	1162.752	1130.564	1119.099	1120.863	1128.359	1138.501
12.5	1388.953	1331.631	1276.955	1177.303	1122.186	1102.344	1107.635	1125.713	1153.492	1181.272
15.0	1392.922	1320.608	1253.144	1138.501	1088.234	1083.824	1103.667	1138.501	1186.563	1228.452
17.5	1396.008	1312.230	1231.097	1104.107	1060.455	1067.951	1093.084	1138.942	1181.272	1216.106
20.0	1400.417	1305.616	1212.137	1074.124	1037.526	1050.754	1076.769	1103.226	1138.942	1176.862
22.5	1407.032	1299.002	1191.854	1046.345	1017.684	1035.762	1042.376	1057.368	1088.675	1124.391
25.0	1419.378	1297.238	1175.098	1022.975	1001.810	1015.038	1000.046	1011.952	1031.353	1065.305
27.5	1437.456	1300.325	1164.516	1005.778	989.464	984.613	962.126	967.417	983.291	1016.361

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L83-750-T4-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

30.0	1466.117	1312.230	1159.666	992.109	980.204	953.307	929.937	929.937	937.433	970.503
32.5	1503.156	1329.867	1160.547	983.732	973.149	928.173	900.394	891.576	902.158	947.575
35.0	1553.423	1355.442	1167.602	980.645	963.889	907.008	873.056	857.623	888.489	935.228
37.5	1613.390	1390.717	1182.594	984.613	946.693	886.725	839.986	841.309	877.466	929.937
40.0	1687.468	1444.511	1210.814	997.401	929.055	868.647	814.412	831.167	866.883	929.496
42.5	1783.592	1518.148	1253.585	1011.952	914.945	854.096	802.506	818.380	856.742	925.528
45.0	1901.322	1616.477	1315.317	1017.243	911.418	838.663	798.097	804.711	846.159	918.032
47.5	2035.808	1736.853	1398.213	1021.211	910.095	824.994	788.396	789.719	832.490	868.647
50.0	2192.782	1874.866	1490.369	1035.762	909.213	812.207	772.522	773.404	777.814	849.687
52.5	2365.189	2019.053	1589.139	1072.360	910.536	806.475	757.531	753.562	741.216	835.136
55.0	2572.429	2264.214	1765.955	1103.226	912.741	815.734	757.972	724.460	727.106	810.884
57.5	2909.306	2622.696	1931.747	1131.005	940.961	849.246	790.601	735.043	741.216	792.806
60.0	3236.922	2787.166	2065.351	1195.822	973.149	864.678	817.498	764.145	790.601	803.829
62.5	3217.080	2796.866	2209.979	1233.302	965.212	848.364	794.128	739.893	825.435	787.514
65.0	2986.470	2691.482	2097.981	1149.965	949.779	842.632	755.767	666.257	763.704	725.342
67.5	2218.797	1939.684	1380.134	839.104	845.277	822.789	721.815	597.470	677.280	682.130
70.0	1100.139	864.678	603.202	466.512	597.029	742.098	698.445	536.621	593.502	617.753
72.5	462.984	379.647	319.239	299.397	354.073	581.156	661.406	465.630	494.732	546.762
75.0	285.727	251.334	220.028	216.941	235.461	378.324	568.809	401.694	395.521	449.756
77.5	194.012	169.761	150.801	152.564	167.115	237.224	428.591	343.931	310.861	332.908
80.0	127.431	110.234	97.888	103.179	114.203	148.155	271.617	247.807	236.783	247.366
82.5	73.196	61.731	55.117	61.731	69.668	86.865	148.155	171.525	173.288	185.194
85.0	33.070	27.338	23.811	28.220	33.070	40.566	68.345	81.132	78.487	75.400
87.5	8.819	7.496	7.055	8.378	9.701	11.905	20.283	20.283	18.078	11.905
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

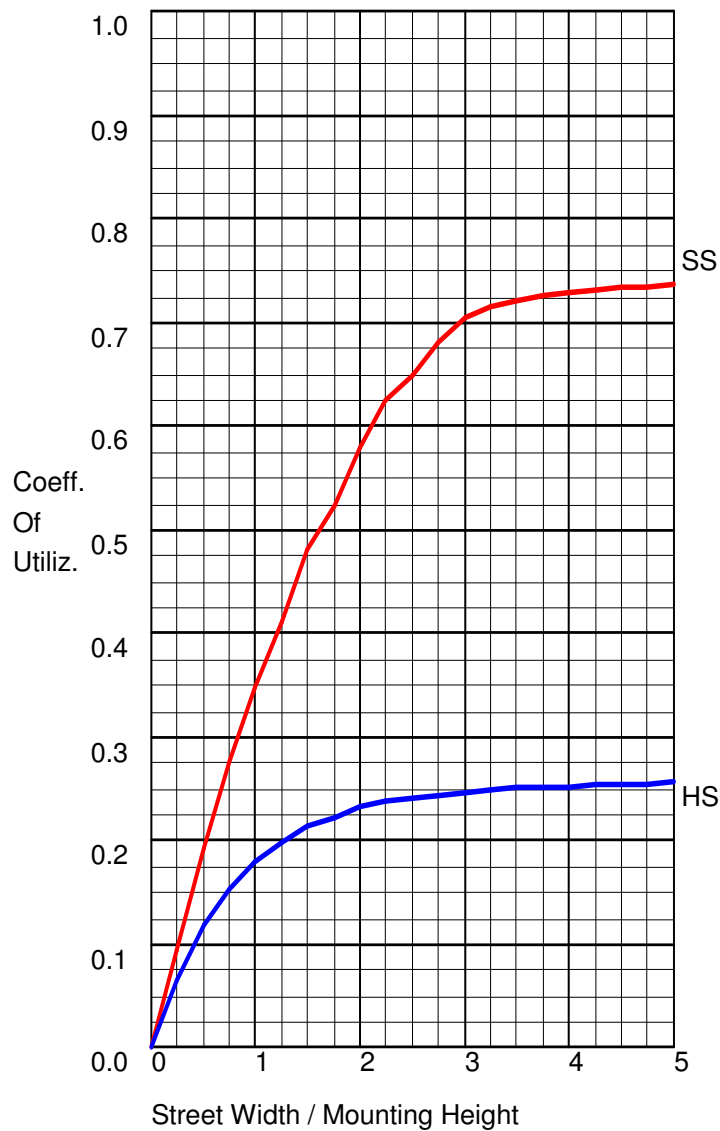
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	1407.913	1407.913
2.5	1288.419	1294.592
5.0	1175.980	1177.744
7.5	1131.446	1130.564
10.0	1144.674	1142.028
12.5	1198.909	1196.704
15.0	1249.176	1250.940
17.5	1234.625	1235.948
20.0	1198.468	1197.586
22.5	1145.115	1149.083
25.0	1092.202	1097.934
27.5	1039.290	1045.463
30.0	1000.046	1007.101
32.5	982.409	989.464
35.0	972.267	978.440
37.5	974.913	979.763
40.0	980.204	984.613
42.5	973.590	977.999
45.0	944.488	948.016
47.5	921.559	926.410
50.0	926.851	930.378
52.5	922.000	925.969
55.0	898.631	906.127
57.5	875.702	882.757
60.0	847.482	853.214
62.5	795.892	804.270
65.0	732.838	750.476

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L83-750-T4-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	665.816	689.626
70.0	594.825	625.690
72.5	527.802	554.699
75.0	440.497	460.780
77.5	359.805	387.584
80.0	324.089	344.813
82.5	187.398	190.044
85.0	54.676	49.385
87.5	4.850	2.646
90.0	0.000	0.000

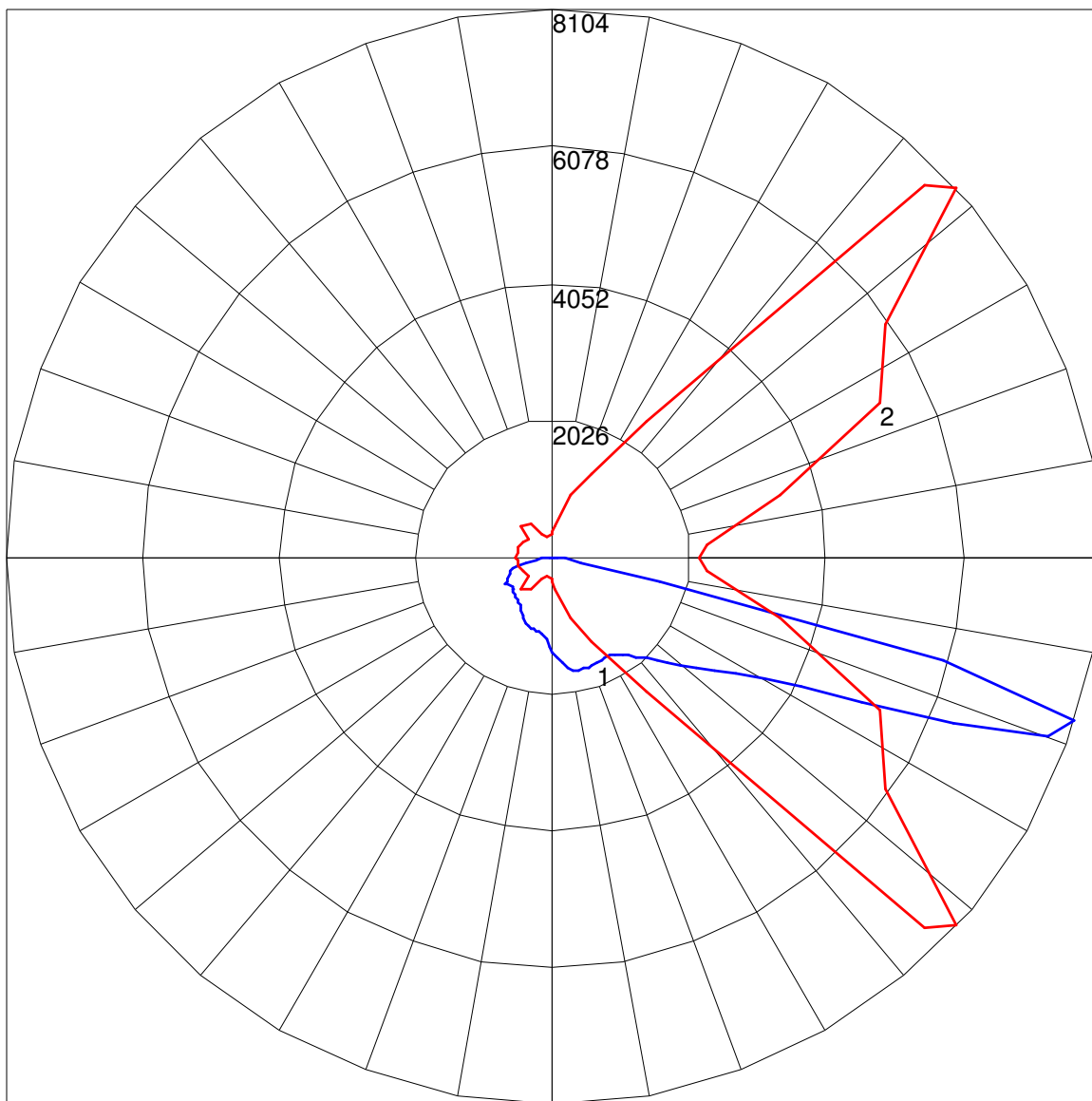
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

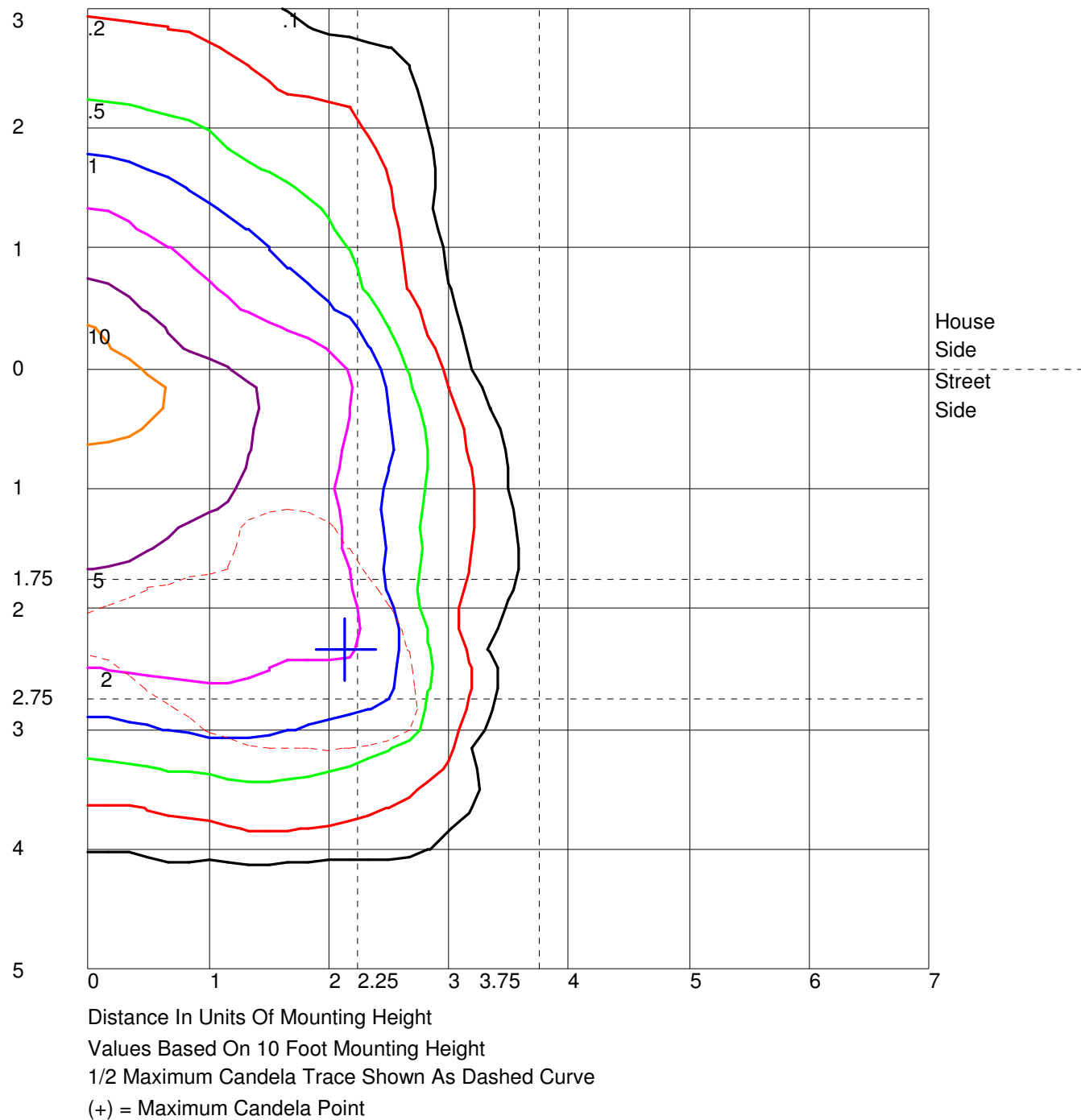
	Lumens	Percent Of Luminaire
Downward Street Side	6460.3	74.1
Downward House Side	2259.8	25.9
Downward Total	8720.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	8720.1	100.0

POLAR GRAPH

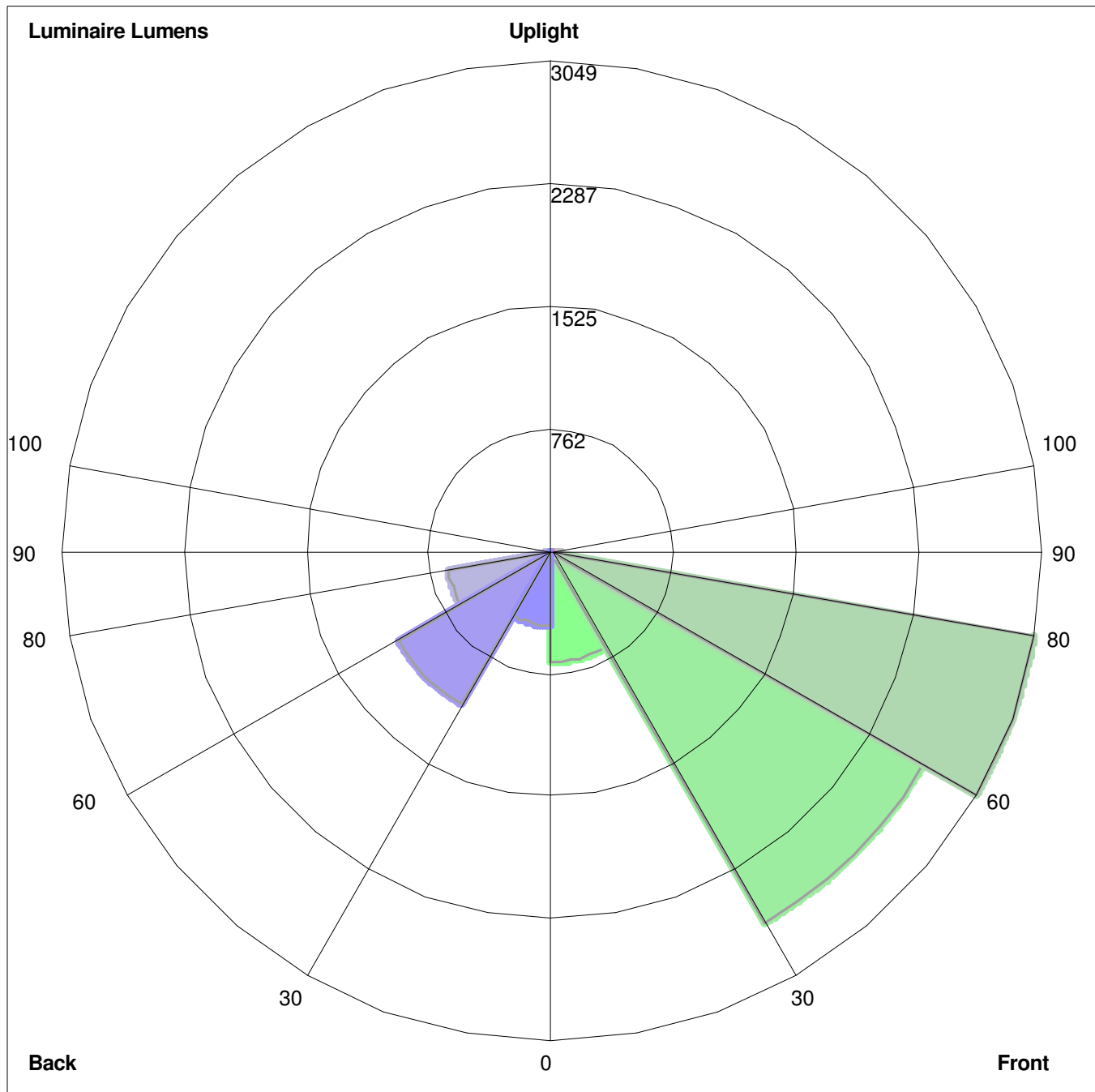


Maximum Candela = 8103.99 Located At Horizontal Angle = 42.5, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=688.9, Medium=2667.5, High=3049.1, Very High=54.8
Back: Low=464.2, Medium=1101.3, High=654.5, Very High=39.8
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2