



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L83-740-T5-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011764
[TESTLAB] ATAL-LABS
[ISSUE DATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA1-L83-740-T5-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA1 LED AREA LIGHT FIXTURE WITH TYPE
[MORE] VSM OPTICS AND CLEAR LENS
[LAMP] LED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor, Architectural, Area, Parking, Site
[SEARCH_MOUNTING] Pole

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8946
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4222.923
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	4222.923
Maximum Candela Angle (<90 Degrees Vertical)	45H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	202.633 (2.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L83-740-T5-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	459.2	N.A.	5.1
FM - Front-Medium (30-60)	2088.6	N.A.	23.3
FH - Front-High (60-80)	1895.0	N.A.	21.2
FVH - Front-Very High (80-90)	30.3	N.A.	0.3
BL - Back-Low (0-30)	459.2	N.A.	5.1
BM - Back-Medium (30-60)	2088.6	N.A.	23.3
BH - Back-High (60-80)	1895.0	N.A.	21.2
BVH - Back-Very High (80-90)	30.3	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	8946.2	N.A.	100.0
BUG Rating	B3-U0-G2		

IES ROAD REPORT
PHOTOMETRIC FILENAME : VA1-L83-740-T5-F-S-XXX-DIM-UNV_.IES

CANDELA TABULATION

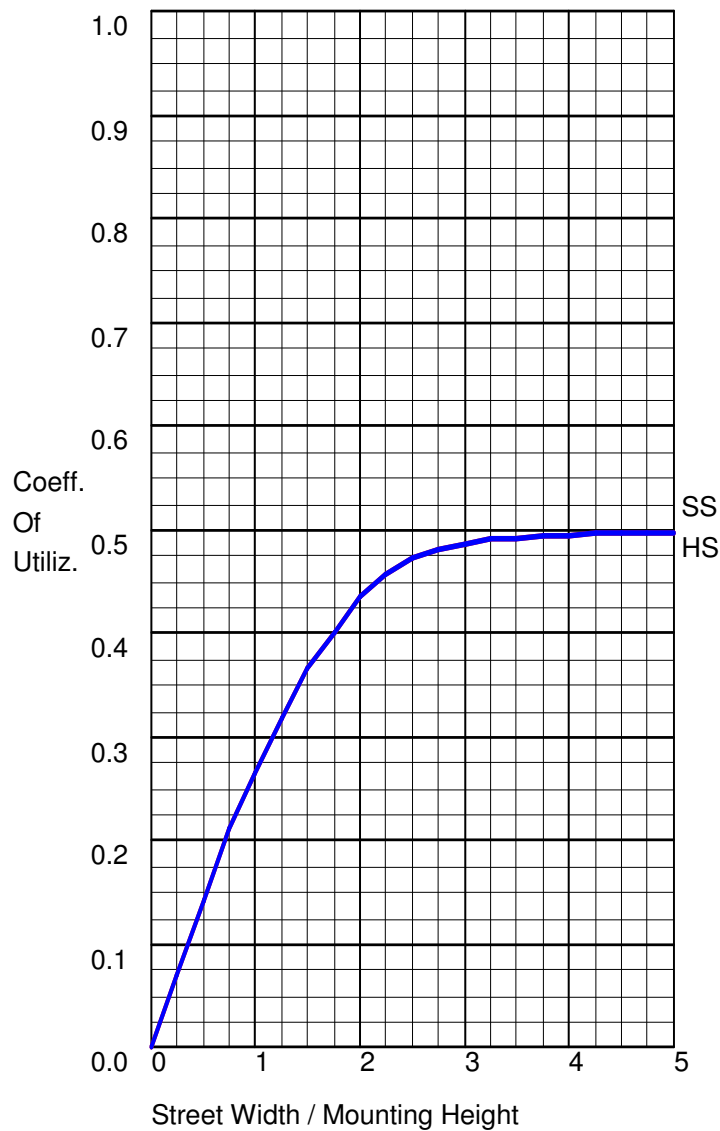
Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	977.249	977.249	977.249	977.249	977.249	977.249	977.249	977.249	977.249	977.249
2.5	977.693	978.580	978.580	977.693	978.136	977.693	977.693	977.249	977.693	978.136
5.0	984.344	986.117	985.674	984.787	985.231	984.787	984.344	983.457	984.344	985.231
7.5	996.316	998.532	998.532	997.202	997.202	997.202	997.646	996.759	997.202	999.419
10.0	1010.948	1012.721	1013.165	1011.834	1012.278	1012.721	1013.165	1013.165	1014.051	1015.825
12.5	1025.136	1027.353	1028.240	1026.910	1027.353	1028.684	1029.570	1030.014	1030.901	1032.231
15.0	1041.986	1043.759	1043.316	1043.759	1043.316	1044.202	1044.646	1045.976	1047.306	1047.750
17.5	1060.165	1062.382	1061.495	1061.938	1060.608	1061.495	1061.052	1061.495	1062.825	1063.269
20.0	1082.778	1083.665	1082.335	1082.335	1080.561	1079.674	1079.674	1079.674	1079.674	1080.118
22.5	1104.948	1105.391	1104.061	1103.174	1101.401	1100.514	1100.071	1098.740	1098.297	1098.297
25.0	1131.109	1131.552	1129.778	1128.448	1125.344	1124.014	1123.127	1121.354	1120.910	1120.467
27.5	1166.137	1164.363	1161.703	1159.929	1155.495	1154.165	1151.948	1149.288	1148.844	1148.844
30.0	1205.599	1203.382	1201.165	1199.835	1194.514	1192.741	1188.750	1185.203	1185.646	1186.090
32.5	1253.043	1251.269	1248.166	1249.052	1243.732	1242.845	1237.967	1233.090	1230.873	1231.316
35.0	1309.355	1307.581	1306.694	1307.581	1302.704	1302.260	1299.600	1294.279	1292.949	1291.175
37.5	1375.864	1374.977	1375.864	1377.638	1374.977	1376.751	1376.308	1371.874	1369.213	1366.553
40.0	1449.025	1452.129	1452.572	1459.223	1460.110	1465.874	1467.204	1465.431	1466.761	1464.544
42.5	1530.167	1533.271	1535.488	1545.242	1552.780	1565.639	1569.186	1573.176	1574.507	1580.714
45.0	1615.299	1617.073	1621.063	1635.252	1647.667	1668.950	1677.818	1685.356	1691.564	1698.658
47.5	1707.526	1711.073	1711.517	1732.356	1754.083	1780.243	1788.668	1800.640	1811.281	1818.376
50.0	1816.602	1819.706	1823.696	1847.640	1877.348	1915.480	1924.791	1934.989	1945.187	1954.942
52.5	1948.735	1949.621	1954.942	1993.074	2031.650	2085.745	2095.943	2109.688	2115.896	2127.867
55.0	2090.622	2094.613	2112.792	2170.877	2235.613	2299.462	2325.180	2338.038	2345.576	2361.538
57.5	2243.594	2248.472	2280.396	2367.746	2471.501	2567.718	2612.945	2624.917	2632.454	2652.851
60.0	2393.463	2406.321	2464.850	2584.124	2736.653	2876.323	2954.361	2974.758	2973.871	2984.513
62.5	2451.991	2479.039	2585.454	2754.832	2971.654	3191.579	3335.240	3379.580	3384.458	3386.675
65.0	2283.057	2305.670	2467.067	2690.096	2994.267	3325.929	3616.798	3759.129	3850.026	3884.167
67.5	1826.357	1829.017	2025.442	2279.953	2643.096	3067.871	3512.600	3865.988	4113.847	4222.923
70.0	1094.306	1085.439	1254.373	1478.733	1826.800	2283.944	2836.861	3354.307	3716.119	3876.629
72.5	516.115	506.361	589.719	687.710	911.626	1174.118	1636.139	2129.198	2499.435	2694.087
75.0	269.586	267.369	289.539	309.935	370.237	439.851	617.654	870.834	1103.618	1267.675
77.5	165.387	167.161	181.350	192.878	212.831	229.237	264.709	314.369	377.332	415.464
80.0	111.293	111.293	116.614	127.699	142.331	150.755	167.604	181.793	197.312	202.633
82.5	69.613	69.170	71.387	76.708	88.680	94.000	102.868	109.076	114.840	112.623
85.0	25.274	25.717	30.151	34.585	43.453	45.227	49.661	52.321	50.991	49.217
87.5	3.991	4.434	5.764	7.538	10.198	11.085	13.745	15.519	15.962	15.962
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>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0.0	977.249	977.249	977.249	977.249	977.249	977.249	977.249	977.249	977.249
2.5	977.693	977.249	978.136	978.136	978.580	978.580	977.693	978.136	978.136
5.0	984.344	984.344	985.231	985.231	986.117	986.561	985.674	986.561	987.891
7.5	998.089	997.646	998.532	998.976	999.863	1000.306	999.863	1001.193	1003.410
10.0	1014.938	1014.495	1015.382	1015.382	1016.268	1016.712	1016.268	1018.042	1021.146
12.5	1031.787	1031.344	1031.787	1032.231	1033.118	1032.231	1032.674	1034.891	1039.325
15.0	1047.750	1046.863	1046.863	1047.306	1048.193	1048.193	1049.080	1052.184	1057.061
17.5	1062.825	1061.938	1063.269	1063.269	1064.155	1065.929	1067.259	1071.250	1077.014
20.0	1079.231	1078.788	1080.561	1081.005	1083.665	1085.882	1087.656	1092.976	1099.184
22.5	1096.967	1096.523	1099.627	1101.401	1104.948	1107.608	1111.156	1116.920	1122.241
25.0	1119.580	1119.580	1123.127	1125.788	1130.222	1134.212	1137.759	1143.967	1149.731
27.5	1148.844	1148.844	1151.948	1156.382	1160.373	1164.363	1168.797	1173.675	1178.996

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L83-740-T5-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

30.0	1186.090	1186.533	1189.194	1193.184	1197.618	1201.609	1206.043	1210.033	1214.024
32.5	1232.203	1233.977	1237.524	1241.958	1245.505	1248.166	1251.269	1253.930	1257.477
35.0	1292.949	1294.722	1299.156	1304.477	1305.807	1308.911	1309.355	1313.345	1315.562
37.5	1369.657	1370.100	1374.977	1378.968	1381.628	1381.628	1381.628	1382.072	1386.062
40.0	1465.874	1463.657	1468.978	1471.195	1471.195	1463.214	1460.997	1460.553	1463.657
42.5	1577.167	1572.733	1574.507	1572.290	1564.308	1549.233	1543.025	1543.025	1548.790
45.0	1697.328	1687.573	1683.139	1675.158	1659.639	1640.573	1631.705	1628.158	1638.799
47.5	1817.045	1808.177	1797.979	1789.555	1765.168	1742.998	1732.800	1727.036	1735.460
50.0	1954.942	1950.508	1939.867	1929.668	1895.970	1864.932	1850.744	1842.762	1851.630
52.5	2134.075	2137.179	2130.528	2102.150	2053.820	2008.593	1984.650	1974.008	1980.216
55.0	2375.284	2383.708	2369.963	2318.972	2251.575	2181.962	2141.613	2120.773	2123.433
57.5	2670.143	2678.568	2661.719	2581.464	2498.992	2392.133	2326.510	2287.491	2280.840
60.0	3012.447	3019.984	3009.343	2915.342	2803.606	2651.521	2543.331	2479.926	2467.954
62.5	3408.845	3431.458	3419.929	3285.136	3090.485	2871.003	2695.417	2584.124	2549.539
65.0	3891.705	3871.309	3748.044	3462.496	3133.051	2817.351	2583.681	2415.633	2354.887
67.5	4176.810	3973.290	3647.393	3211.532	2793.851	2413.859	2126.981	1934.546	1855.621
70.0	3799.922	3470.920	2981.852	2447.557	1965.140	1592.686	1294.279	1143.967	1077.457
72.5	2629.794	2250.689	1686.243	1167.467	839.796	693.031	573.757	523.653	499.266
75.0	1146.184	852.211	556.465	436.304	370.237	337.869	304.614	290.869	282.888
77.5	359.152	308.605	269.586	246.529	226.133	210.614	194.652	180.906	175.142
80.0	199.973	184.897	172.482	160.510	150.312	138.784	122.378	116.614	114.397
82.5	115.727	110.850	105.529	98.434	92.227	82.915	73.161	72.274	73.604
85.0	50.547	50.991	49.217	46.113	43.896	38.576	35.028	34.585	34.585
87.5	16.406	15.962	14.189	13.302	12.415	11.528	9.755	10.198	9.755
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

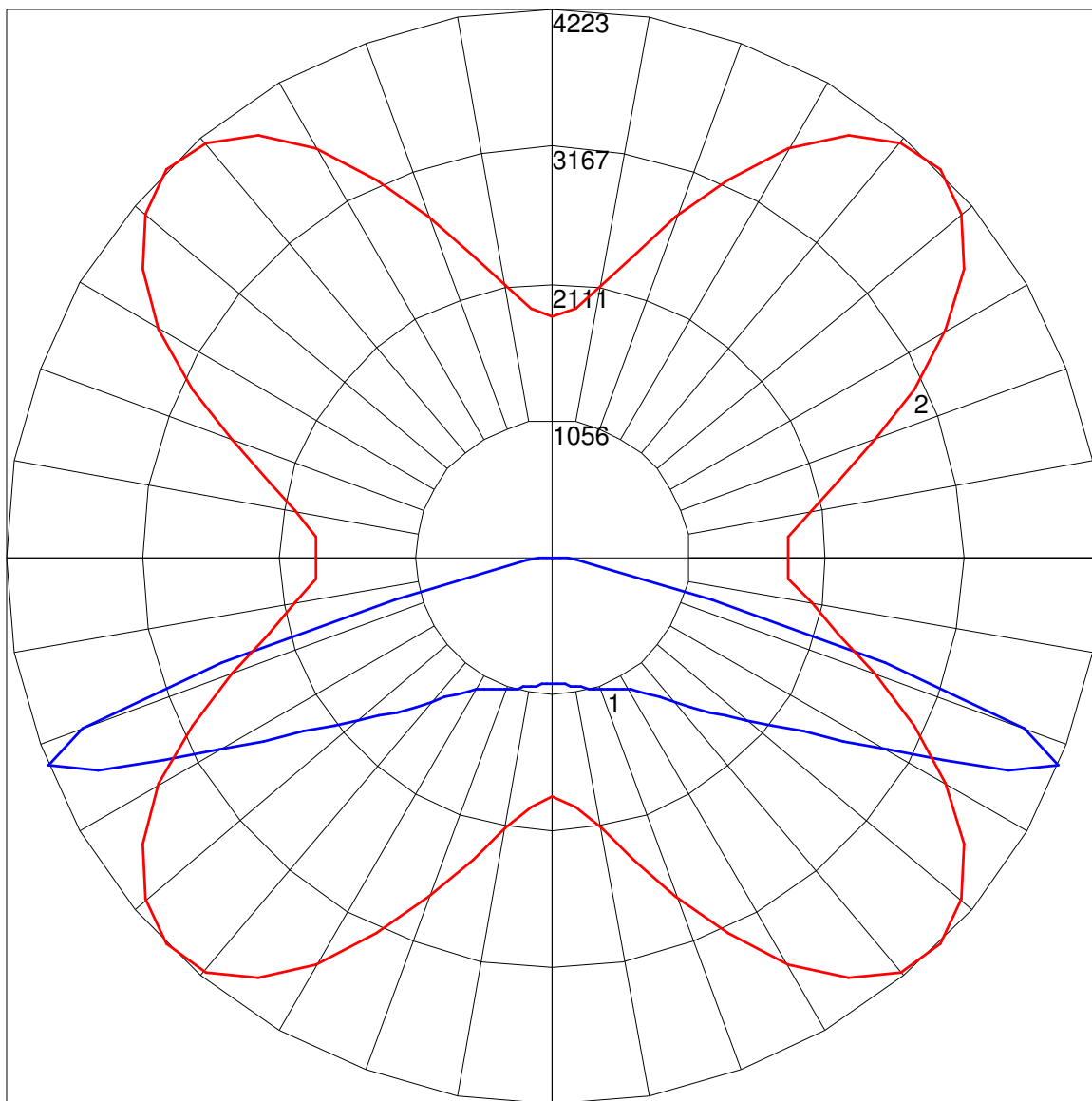
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

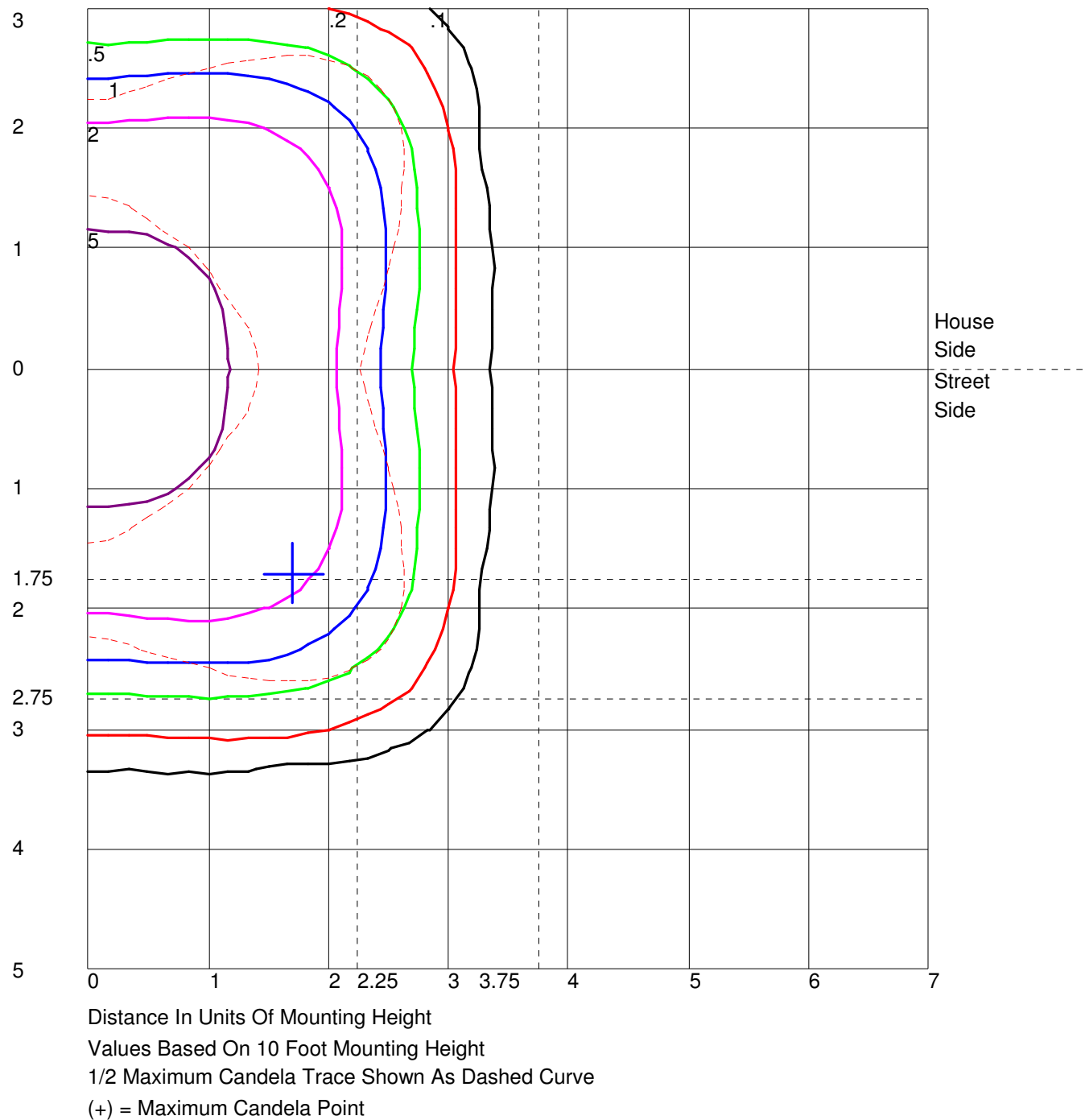
	Lumens	Percent Of Luminaire
Downward Street Side	4473.0	50.0
Downward House Side	4473.0	50.0
Downward Total	8946.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	8946.0	100.0

POLAR GRAPH

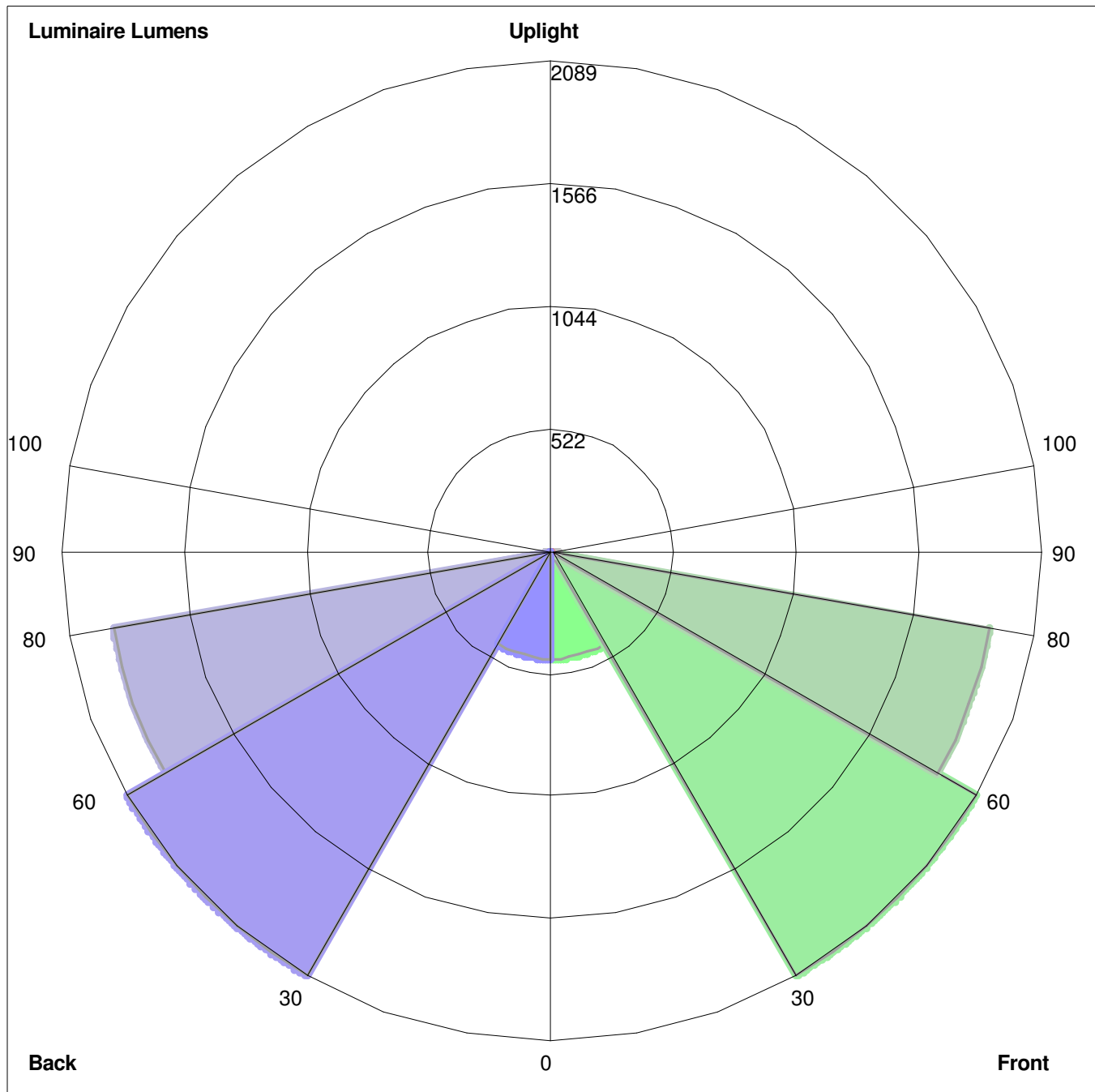


Maximum Candela = 4222.923 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=459.2, Medium=2088.6, High= 1895.0, Very High=30.3
Back: Low=459.2, Medium=2088.6, High= 1895.0, Very High=30.3
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2