



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L83-730-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-L83-730-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	8141
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3842.861
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	3842.861
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	184.396 (2.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L83-730-T5-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	417.9	N.A.	5.1
FM - Front-Medium (30-60)	1900.6	N.A.	23.3
FH - Front-High (60-80)	1724.5	N.A.	21.2
FVH - Front-Very High (80-90)	27.6	N.A.	0.3
BL - Back-Low (0-30)	417.9	N.A.	5.1
BM - Back-Medium (30-60)	1900.6	N.A.	23.3
BH - Back-High (60-80)	1724.5	N.A.	21.2
BVH - Back-Very High (80-90)	27.6	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	8141.2	N.A.	100.0
BUG Rating	B3-U0-G1		

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CANDELA TABULATION

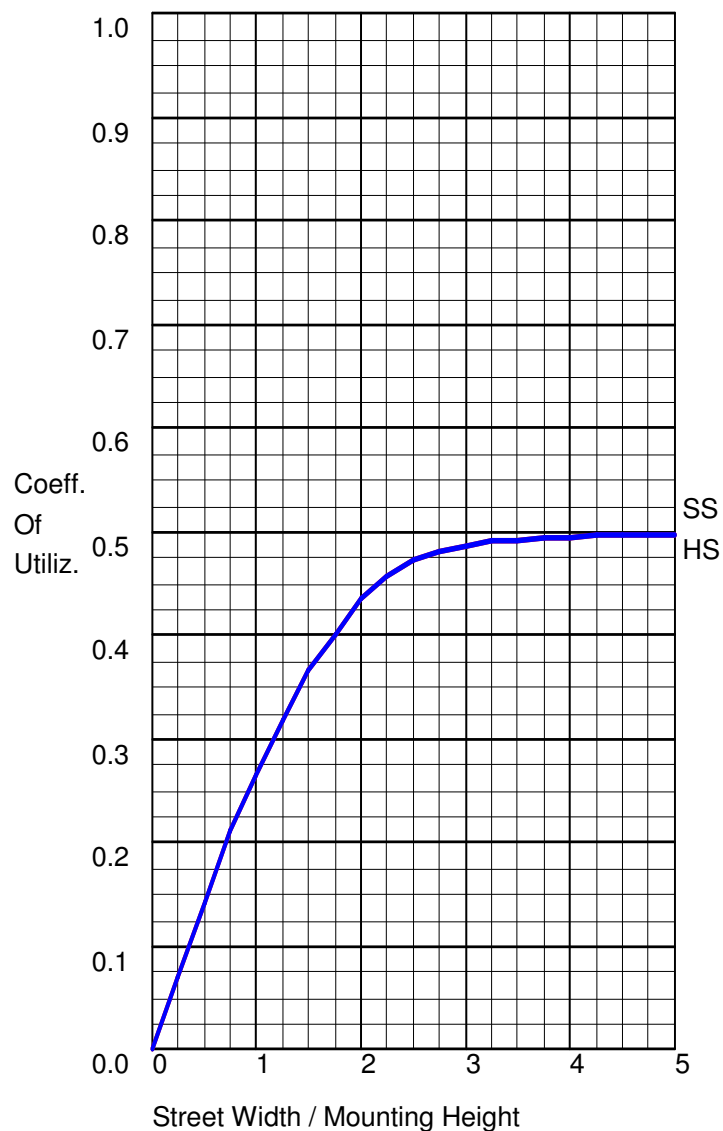
Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	889.297	889.297	889.297	889.297	889.297	889.297	889.297	889.297	889.297	889.297
2.5	889.701	890.508	890.508	889.701	890.104	889.701	889.701	889.297	889.701	890.104
5.0	895.753	897.367	896.963	896.156	896.560	896.156	895.753	894.946	895.753	896.560
7.5	906.647	908.665	908.665	907.454	907.454	907.454	907.858	907.051	907.454	909.472
10.0	919.962	921.576	921.980	920.769	921.173	921.576	921.980	921.980	922.787	924.401
12.5	932.874	934.892	935.699	934.488	934.892	936.102	936.909	937.313	938.120	939.330
15.0	948.207	949.821	949.417	949.821	949.417	950.224	950.628	951.838	953.049	953.452
17.5	964.750	966.768	965.961	966.364	965.154	965.961	965.557	965.961	967.171	967.575
20.0	985.328	986.135	984.925	984.925	983.311	982.504	982.504	982.504	982.504	982.907
22.5	1005.503	1005.906	1004.696	1003.889	1002.275	1001.468	1001.064	999.854	999.450	999.450
25.0	1029.309	1029.712	1028.098	1026.888	1024.063	1022.853	1022.046	1020.432	1020.029	1019.625
27.5	1061.185	1059.571	1057.150	1055.536	1051.501	1050.290	1048.273	1045.852	1045.449	1045.449
30.0	1097.096	1095.078	1093.061	1091.850	1087.008	1085.394	1081.763	1078.535	1078.938	1079.342
32.5	1140.269	1138.655	1135.831	1136.638	1131.796	1130.989	1126.551	1122.112	1120.095	1120.498
35.0	1191.513	1189.899	1189.092	1189.899	1185.460	1185.057	1182.636	1177.794	1176.584	1174.970
37.5	1252.037	1251.230	1252.037	1253.651	1251.230	1252.844	1252.440	1248.405	1245.984	1243.563
40.0	1318.613	1321.437	1321.841	1327.893	1328.700	1333.946	1335.156	1333.542	1334.753	1332.735
42.5	1392.452	1395.276	1397.294	1406.171	1413.030	1424.731	1427.959	1431.591	1432.801	1438.450
45.0	1469.922	1471.536	1475.168	1488.080	1499.377	1518.745	1526.815	1533.674	1539.323	1545.779
47.5	1553.849	1557.077	1557.480	1576.444	1596.216	1620.022	1627.688	1638.582	1648.266	1654.722
50.0	1653.108	1655.932	1659.564	1681.352	1708.386	1743.087	1751.560	1760.840	1770.121	1778.998
52.5	1773.349	1774.156	1778.998	1813.698	1848.802	1898.028	1907.308	1919.816	1925.465	1936.360
55.0	1902.466	1906.098	1922.641	1975.498	2034.408	2092.511	2115.914	2127.615	2134.474	2149.000
57.5	2041.671	2046.109	2075.161	2154.649	2249.066	2336.624	2377.780	2388.674	2395.534	2414.094
60.0	2178.051	2189.753	2243.014	2351.553	2490.354	2617.455	2688.469	2707.030	2706.223	2715.907
62.5	2231.312	2255.925	2352.764	2506.898	2704.205	2904.338	3035.069	3075.418	3079.857	3081.874
65.0	2077.582	2098.160	2245.031	2447.988	2724.784	3026.596	3291.287	3420.808	3503.524	3534.593
67.5	1661.985	1664.406	1843.153	2074.757	2405.218	2791.763	3196.466	3518.049	3743.602	3842.861
70.0	995.819	987.749	1141.480	1345.647	1662.388	2078.389	2581.544	3052.419	3381.669	3527.733
72.5	469.665	460.788	536.645	625.817	829.580	1068.448	1488.887	1937.570	2274.486	2451.619
75.0	245.323	243.306	263.480	282.041	336.916	400.264	562.065	792.459	1004.292	1153.584
77.5	150.503	152.117	165.028	175.519	193.676	208.606	240.885	286.076	343.372	378.072
80.0	101.277	101.277	106.118	116.206	129.521	137.187	152.520	165.432	179.554	184.396
82.5	63.348	62.945	64.962	69.804	80.698	85.540	93.610	99.259	104.505	102.487
85.0	22.999	23.403	27.437	31.472	39.542	41.156	45.191	47.612	46.402	44.788
87.5	3.631	4.035	5.245	6.859	9.280	10.087	12.508	14.122	14.526	14.526
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	889.297	889.297	889.297	889.297	889.297	889.297	889.297	889.297	889.297	
2.5	889.701	889.297	890.104	890.104	890.508	890.508	889.701	890.104	890.104	
5.0	895.753	895.753	896.560	896.560	897.367	897.770	896.963	897.770	898.981	
7.5	908.261	907.858	908.665	909.068	909.875	910.279	909.875	911.086	913.103	
10.0	923.594	923.190	923.997	923.997	924.804	925.208	924.804	926.418	929.243	
12.5	938.927	938.523	938.927	939.330	940.137	939.330	939.734	941.751	945.786	
15.0	953.452	952.645	952.645	953.049	953.856	953.856	954.663	957.487	961.926	
17.5	967.171	966.364	967.575	967.575	968.382	969.995	971.206	974.837	980.083	
20.0	982.100	981.697	983.311	983.714	986.135	988.153	989.767	994.609	1000.257	
22.5	998.240	997.836	1000.661	1002.275	1005.503	1007.924	1011.152	1016.397	1021.239	
25.0	1018.818	1018.818	1022.046	1024.467	1028.502	1032.133	1035.361	1041.010	1046.256	
27.5	1045.449	1045.449	1048.273	1052.308	1055.939	1059.571	1063.606	1068.044	1072.886	

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30.0	1079.342	1079.745	1082.166	1085.798	1089.833	1093.464	1097.499	1101.130	1104.762
32.5	1121.305	1122.919	1126.147	1130.182	1133.410	1135.831	1138.655	1141.076	1144.304
35.0	1176.584	1178.198	1182.232	1187.074	1188.285	1191.109	1191.513	1195.144	1197.162
37.5	1246.388	1246.791	1251.230	1254.861	1257.282	1257.282	1257.282	1257.686	1261.317
40.0	1333.946	1331.928	1336.770	1338.787	1338.787	1331.525	1329.507	1329.104	1331.928
42.5	1435.222	1431.187	1432.801	1430.784	1423.521	1409.802	1404.153	1404.153	1409.399
45.0	1544.569	1535.692	1531.657	1524.394	1510.272	1492.922	1484.852	1481.624	1491.308
47.5	1653.511	1645.442	1636.161	1628.495	1606.303	1586.128	1576.848	1571.603	1579.269
50.0	1778.998	1774.963	1765.279	1755.998	1725.333	1697.089	1684.177	1676.914	1684.984
52.5	1942.008	1944.833	1938.781	1912.957	1868.976	1827.820	1806.032	1796.348	1801.997
55.0	2161.508	2169.175	2156.666	2110.265	2048.934	1985.586	1948.868	1929.904	1932.325
57.5	2429.831	2437.497	2422.164	2349.132	2274.083	2176.841	2117.124	2081.617	2075.564
60.0	2741.327	2748.186	2738.502	2652.962	2551.282	2412.884	2314.432	2256.732	2245.838
62.5	3102.049	3122.627	3112.136	2989.474	2812.341	2612.613	2452.830	2351.553	2320.081
65.0	3541.452	3522.891	3410.720	3150.871	2851.077	2563.790	2351.150	2198.226	2142.948
67.5	3800.897	3615.695	3319.128	2922.495	2542.405	2196.612	1935.553	1760.437	1688.615
70.0	3457.929	3158.538	2713.486	2227.278	1788.278	1449.344	1177.794	1041.010	980.486
72.5	2393.113	2048.127	1534.481	1062.395	764.214	630.658	522.119	476.524	454.332
75.0	1043.028	775.512	506.383	397.036	336.916	307.461	277.199	264.691	257.428
77.5	326.829	280.831	245.323	224.342	205.781	191.659	177.133	164.625	159.379
80.0	181.975	168.256	156.959	146.064	136.784	126.293	111.364	106.118	104.101
82.5	105.311	100.873	96.031	89.575	83.926	75.453	66.576	65.769	66.980
85.0	45.998	46.402	44.788	41.963	39.946	35.104	31.876	31.472	31.472
87.5	14.929	14.526	12.912	12.105	11.298	10.491	8.877	9.280	8.877
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

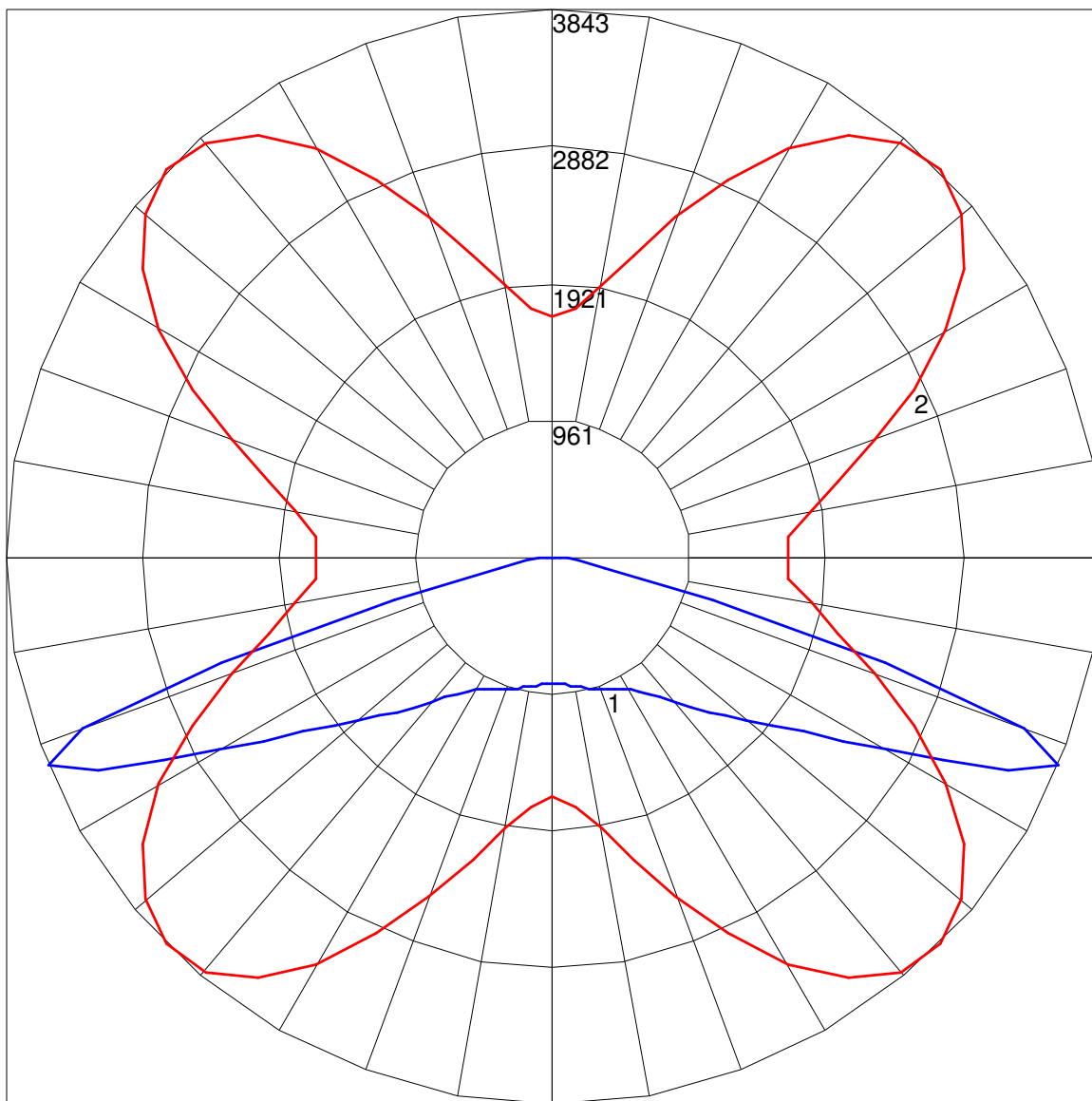
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

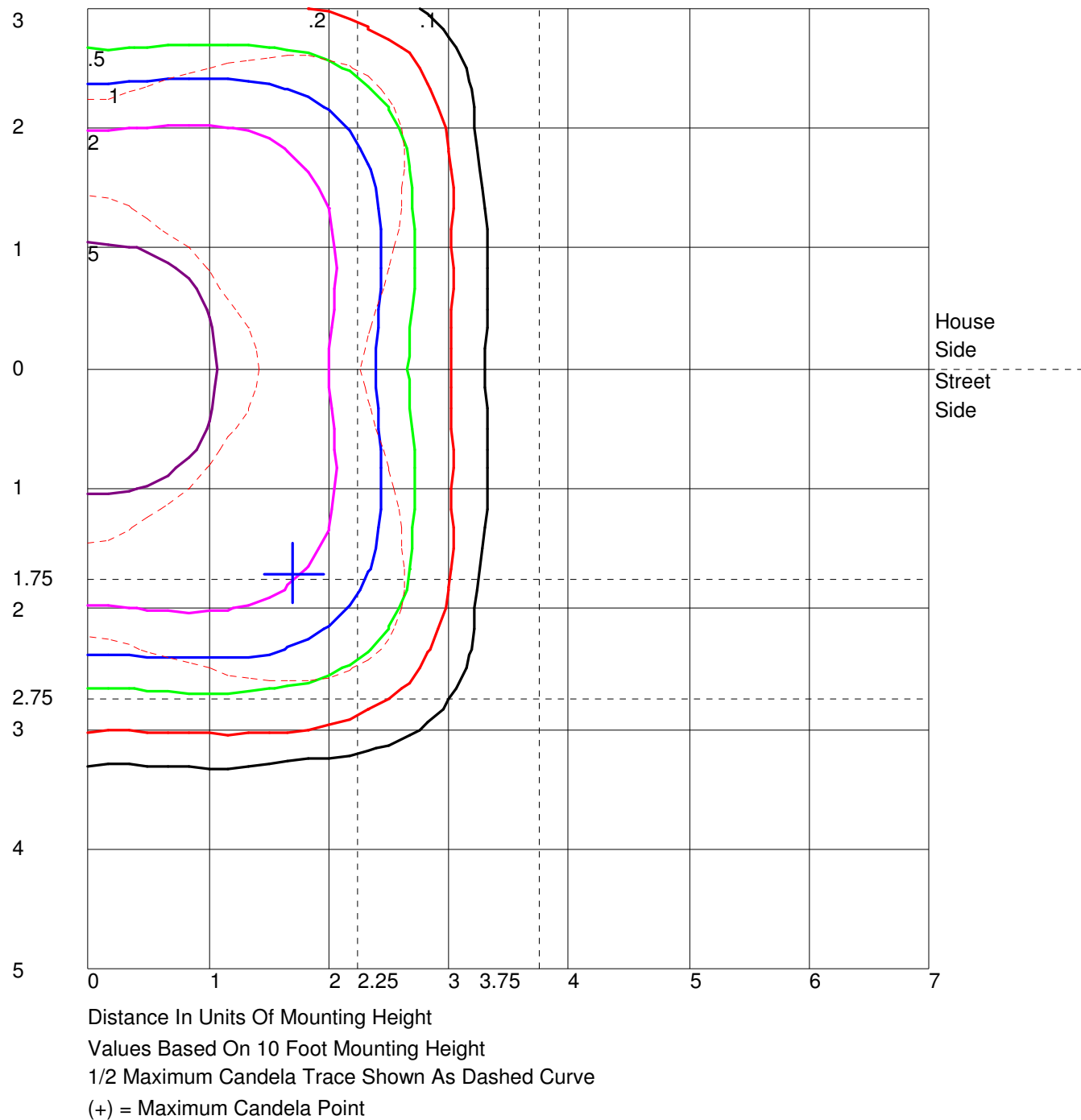
	Lumens	Percent Of Luminaire
Downward Street Side	4070.5	50.0
Downward House Side	4070.5	50.0
Downward Total	8141.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	8141.0	100.0

POLAR GRAPH

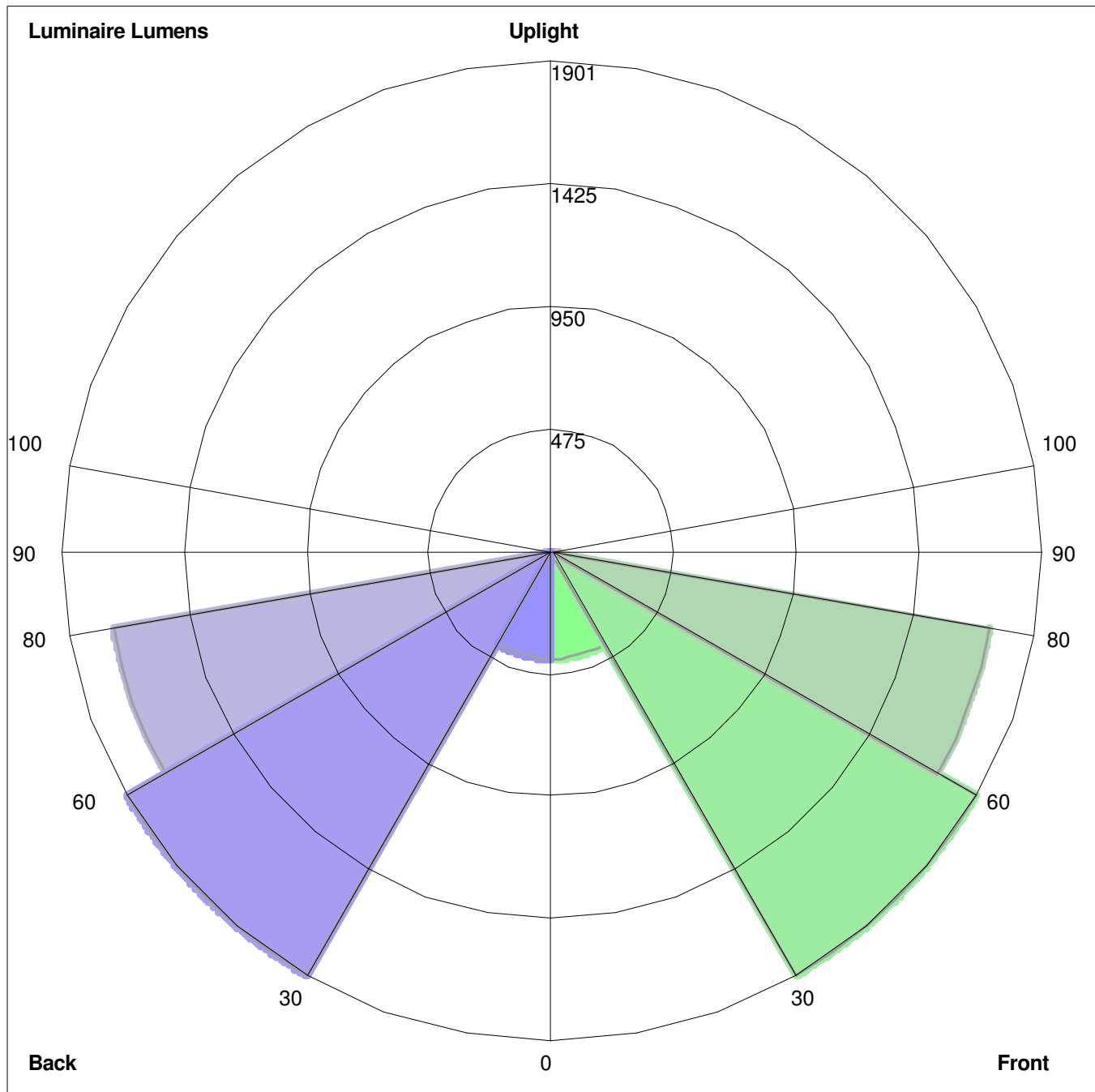


Maximum Candela = 3842.861 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=417.9, Medium=1900.6, High=1724.5, Very High=27.6
Back: Low=417.9, Medium=1900.6, High=1724.5, Very High=27.6
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G1