



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L110-750-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-L110-750-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	12072
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	88
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5698.35
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	5698.35
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	273.43 (2.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L110-750-T5-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	619.6	N.A.	5.1
FM - Front-Medium (30-60)	2818.3	N.A.	23.3
FH - Front-High (60-80)	2557.1	N.A.	21.2
FVH - Front-Very High (80-90)	40.9	N.A.	0.3
BL - Back-Low (0-30)	619.6	N.A.	5.1
BM - Back-Medium (30-60)	2818.3	N.A.	23.3
BH - Back-High (60-80)	2557.1	N.A.	21.2
BVH - Back-Very High (80-90)	40.9	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	12071.8	N.A.	100.0
BUG Rating	B4-U0-G2		

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CANDELA TABULATION

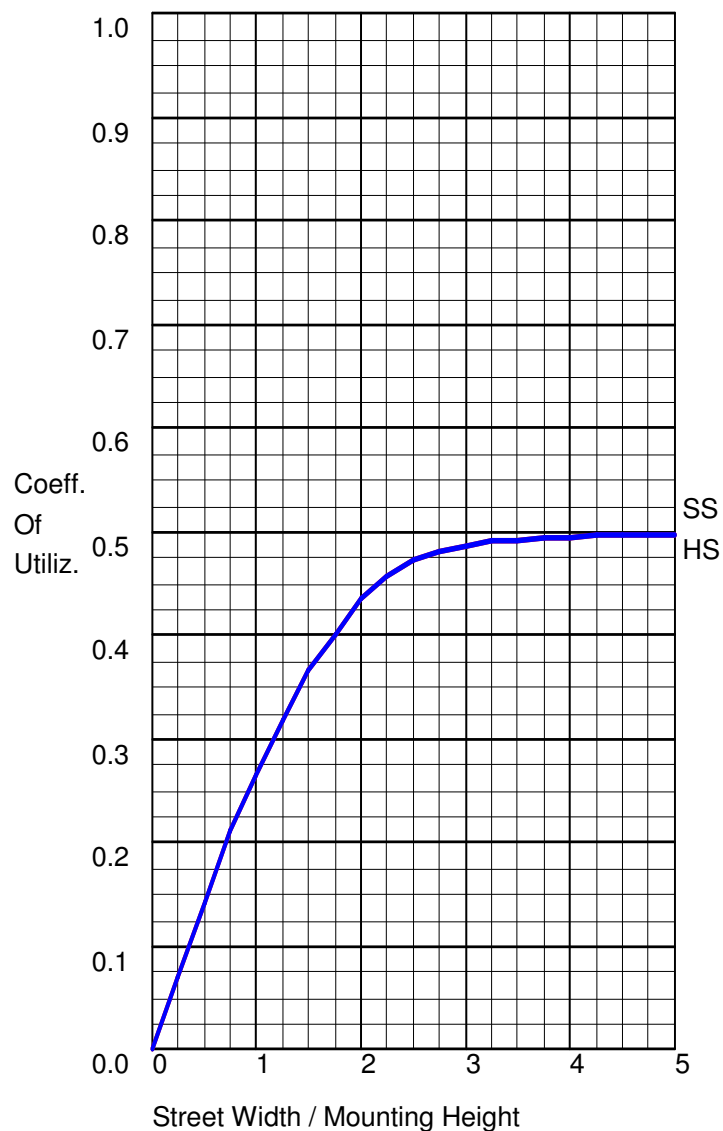
Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	1318.686	1318.686	1318.686	1318.686	1318.686	1318.686	1318.686	1318.686	1318.686	1318.686
2.5	1319.284	1320.481	1320.481	1319.284	1319.882	1319.284	1319.284	1318.686	1319.284	1319.882
5.0	1328.259	1330.652	1330.054	1328.857	1329.456	1328.857	1328.259	1327.062	1328.259	1329.456
7.5	1344.413	1347.405	1347.405	1345.610	1345.610	1345.610	1346.208	1345.012	1345.610	1348.602
10.0	1364.158	1366.551	1367.149	1365.354	1365.953	1366.551	1367.149	1367.149	1368.346	1370.739
12.5	1383.304	1386.295	1387.492	1385.697	1386.295	1388.090	1389.287	1389.885	1391.082	1392.877
15.0	1406.040	1408.433	1407.835	1408.433	1407.835	1409.031	1409.630	1411.425	1413.220	1413.818
17.5	1430.571	1433.562	1432.366	1432.964	1431.169	1432.366	1431.767	1432.366	1434.161	1434.759
20.0	1461.085	1462.281	1460.486	1460.486	1458.093	1456.897	1456.897	1456.897	1456.897	1457.495
22.5	1491.001	1491.599	1489.804	1488.607	1486.214	1485.017	1484.419	1482.624	1482.026	1482.026
25.0	1526.301	1526.899	1524.506	1522.711	1518.523	1516.728	1515.531	1513.138	1512.540	1511.942
27.5	1573.568	1571.175	1567.585	1565.192	1559.208	1557.413	1554.422	1550.832	1550.234	1550.234
30.0	1626.818	1623.826	1620.835	1619.040	1611.860	1609.467	1604.082	1599.296	1599.894	1600.492
32.5	1690.838	1688.444	1684.256	1685.453	1678.273	1677.076	1670.495	1663.914	1660.922	1661.520
35.0	1766.824	1764.430	1763.234	1764.430	1757.849	1757.251	1753.661	1746.481	1744.686	1742.293
37.5	1856.571	1855.374	1856.571	1858.964	1855.374	1857.768	1857.169	1851.186	1847.596	1844.006
40.0	1955.293	1959.481	1960.079	1969.054	1970.251	1978.029	1979.824	1977.430	1979.225	1976.234
42.5	2064.784	2068.973	2071.964	2085.127	2095.299	2112.650	2117.436	2122.821	2124.616	2132.992
45.0	2179.661	2182.054	2187.439	2206.585	2223.338	2252.057	2264.023	2274.195	2282.571	2292.144
47.5	2304.110	2308.897	2309.495	2337.616	2366.933	2402.234	2413.602	2429.756	2444.116	2453.689
50.0	2451.296	2455.484	2460.869	2493.178	2533.265	2584.720	2597.285	2611.046	2624.807	2637.970
52.5	2629.594	2630.790	2637.970	2689.425	2741.479	2814.473	2828.234	2846.782	2855.158	2871.313
55.0	2821.054	2826.439	2850.970	2929.349	3016.703	3102.861	3137.563	3154.914	3165.085	3186.625
57.5	3027.473	3034.054	3077.133	3195.001	3335.007	3464.841	3525.869	3542.024	3552.195	3579.718
60.0	3229.703	3247.055	3326.032	3486.979	3692.799	3881.268	3986.572	4014.094	4012.898	4027.257
62.5	3308.681	3345.178	3488.774	3717.330	4009.906	4306.670	4500.524	4560.356	4566.937	4569.929
65.0	3080.723	3111.237	3329.024	3629.976	4040.420	4487.959	4880.454	5072.513	5195.168	5241.238
67.5	2464.459	2468.049	2733.102	3076.535	3566.555	4139.740	4739.850	5216.707	5551.165	5698.350
70.0	1476.641	1464.675	1692.633	1995.380	2465.057	3081.920	3828.018	4526.252	5014.477	5231.066
72.5	696.438	683.276	795.759	927.986	1230.135	1584.338	2207.782	2873.108	3372.701	3635.361
75.0	363.775	360.784	390.700	418.222	499.593	593.528	833.453	1175.090	1489.206	1710.582
77.5	223.171	225.565	244.711	260.267	287.191	309.329	357.194	424.205	509.166	560.621
80.0	150.177	150.177	157.357	172.315	192.059	203.427	226.163	245.309	266.250	273.430
82.5	93.935	93.337	96.329	103.508	119.663	126.843	138.809	147.185	154.964	151.972
85.0	34.104	34.702	40.685	46.669	58.635	61.028	67.011	70.601	68.806	66.413
87.5	5.385	5.983	7.778	10.171	13.761	14.958	18.548	20.941	21.539	21.539
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	1318.686	1318.686	1318.686	1318.686	1318.686	1318.686	1318.686	1318.686	1318.686
2.5	1319.284	1318.686	1319.882	1319.882	1320.481	1320.481	1319.284	1319.882	1319.882
5.0	1328.259	1328.259	1329.456	1329.456	1330.652	1331.250	1330.054	1331.250	1333.045
7.5	1346.807	1346.208	1347.405	1348.003	1349.200	1349.798	1349.200	1350.995	1353.986
10.0	1369.543	1368.944	1370.141	1370.141	1371.338	1371.936	1371.338	1373.731	1377.919
12.5	1392.279	1391.680	1392.279	1392.877	1394.074	1392.877	1393.475	1396.467	1402.450
15.0	1413.818	1412.621	1412.621	1413.220	1414.416	1414.416	1415.613	1419.801	1426.383
17.5	1434.161	1432.964	1434.759	1434.759	1435.956	1438.349	1440.144	1445.529	1453.307
20.0	1456.298	1455.700	1458.093	1458.692	1462.281	1465.273	1467.666	1474.846	1483.222
22.5	1480.231	1479.633	1483.821	1486.214	1491.001	1494.590	1499.377	1507.155	1514.335
25.0	1510.745	1510.745	1515.531	1519.121	1525.104	1530.489	1535.276	1543.652	1551.430
27.5	1550.234	1550.234	1554.422	1560.405	1565.790	1571.175	1577.158	1583.739	1590.919

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30.0	1600.492	1601.090	1604.680	1610.065	1616.048	1621.433	1627.416	1632.801	1638.186
32.5	1662.717	1665.110	1669.897	1675.880	1680.666	1684.256	1688.444	1692.034	1696.821
35.0	1744.686	1747.079	1753.062	1760.242	1762.037	1766.225	1766.824	1772.209	1775.200
37.5	1848.194	1848.793	1855.374	1860.759	1864.349	1864.349	1864.349	1864.947	1870.332
40.0	1978.029	1975.037	1982.217	1985.209	1985.209	1974.439	1971.447	1970.849	1975.037
42.5	2128.206	2122.223	2124.616	2121.624	2110.855	2090.512	2082.136	2082.136	2089.914
45.0	2290.349	2277.186	2271.203	2260.433	2239.492	2213.765	2201.799	2197.012	2211.372
47.5	2451.894	2439.928	2426.167	2414.799	2381.891	2351.976	2338.214	2330.436	2341.804
50.0	2637.970	2631.987	2617.627	2603.866	2558.394	2516.512	2497.366	2486.596	2498.563
52.5	2879.689	2883.877	2874.903	2836.611	2771.394	2710.366	2678.057	2663.698	2672.074
55.0	3205.172	3216.540	3197.993	3129.187	3038.243	2944.307	2889.861	2861.740	2865.330
57.5	3603.052	3614.420	3591.684	3483.389	3372.102	3227.908	3139.358	3086.706	3077.731
60.0	4064.951	4075.122	4060.763	3933.920	3783.145	3577.923	3431.934	3346.375	3330.220
62.5	4599.844	4630.358	4614.802	4432.915	4170.254	3874.088	3637.156	3486.979	3440.310
65.0	5251.409	5223.887	5057.555	4672.240	4227.693	3801.692	3486.380	3259.619	3177.650
67.5	5636.126	5361.499	4921.738	4333.594	3769.982	3257.226	2870.116	2610.448	2503.948
70.0	5127.558	4683.608	4023.667	3302.698	2651.731	2149.147	1746.481	1543.652	1453.905
72.5	3548.605	3037.046	2275.391	1575.363	1133.208	935.166	774.219	706.610	673.702
75.0	1546.644	1149.961	750.885	588.742	499.593	455.916	411.042	392.495	381.725
77.5	484.635	416.427	363.775	332.663	305.141	284.200	262.660	244.112	236.334
80.0	269.840	249.497	232.744	216.590	202.829	187.273	165.135	157.357	154.365
82.5	156.160	149.579	142.399	132.826	124.449	111.885	98.722	97.525	99.320
85.0	68.208	68.806	66.413	62.225	59.233	52.053	47.267	46.669	46.669
87.5	22.138	21.539	19.146	17.949	16.753	15.556	13.163	13.761	13.163
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

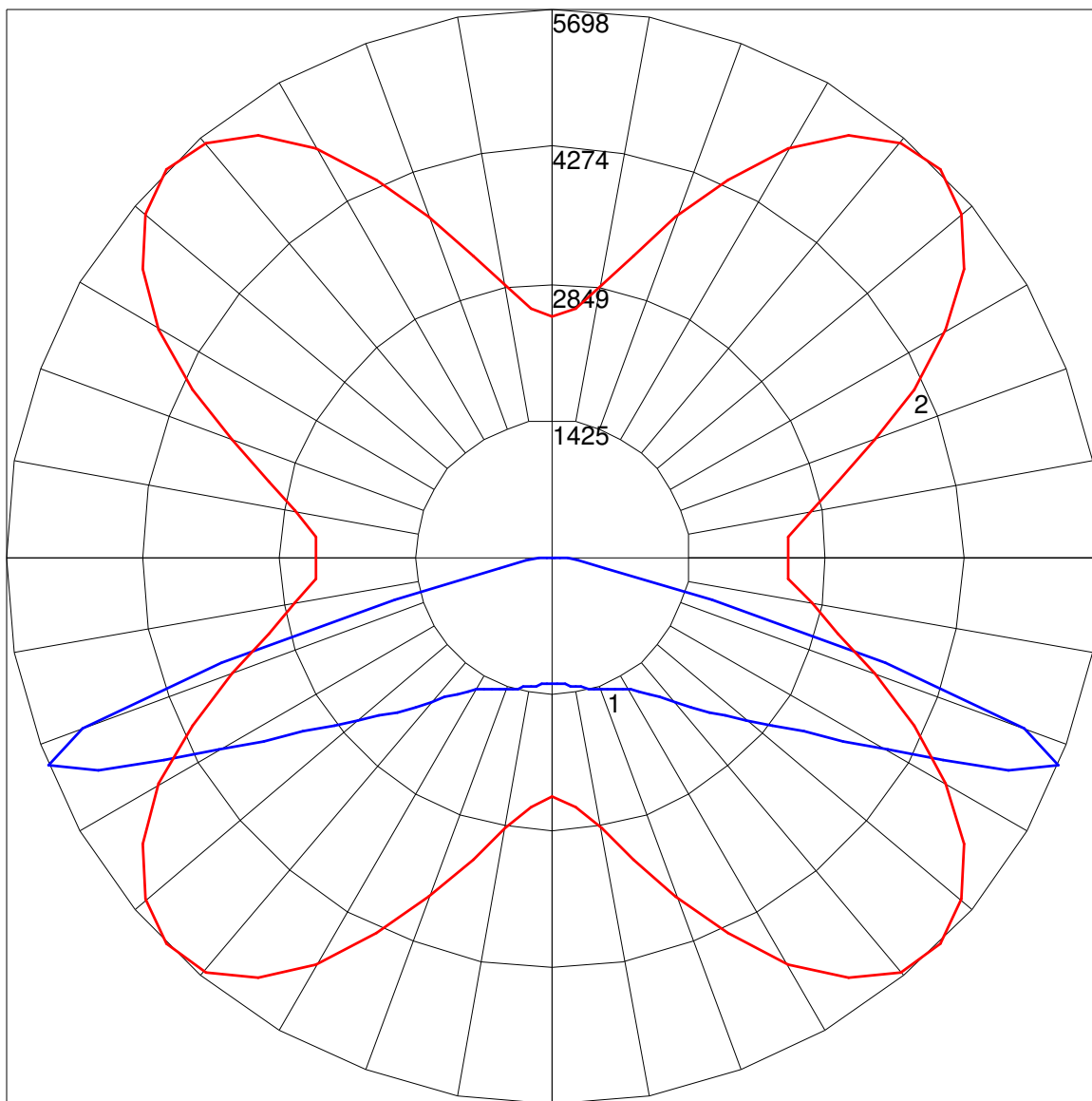
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

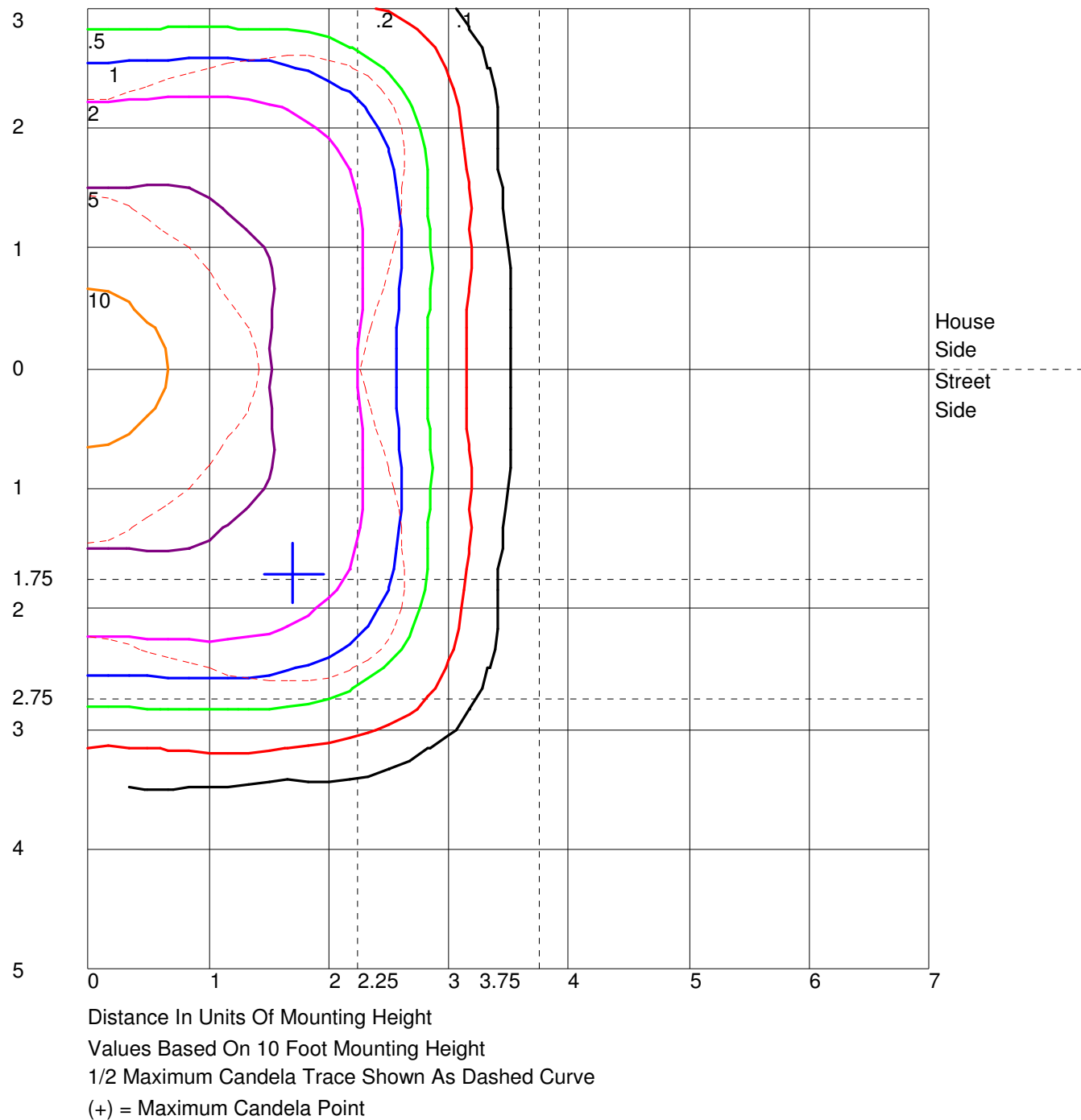
	Lumens	Percent Of Luminaire
Downward Street Side	6035.9	50.0
Downward House Side	6035.9	50.0
Downward Total	12071.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	12071.8	100.0

POLAR GRAPH

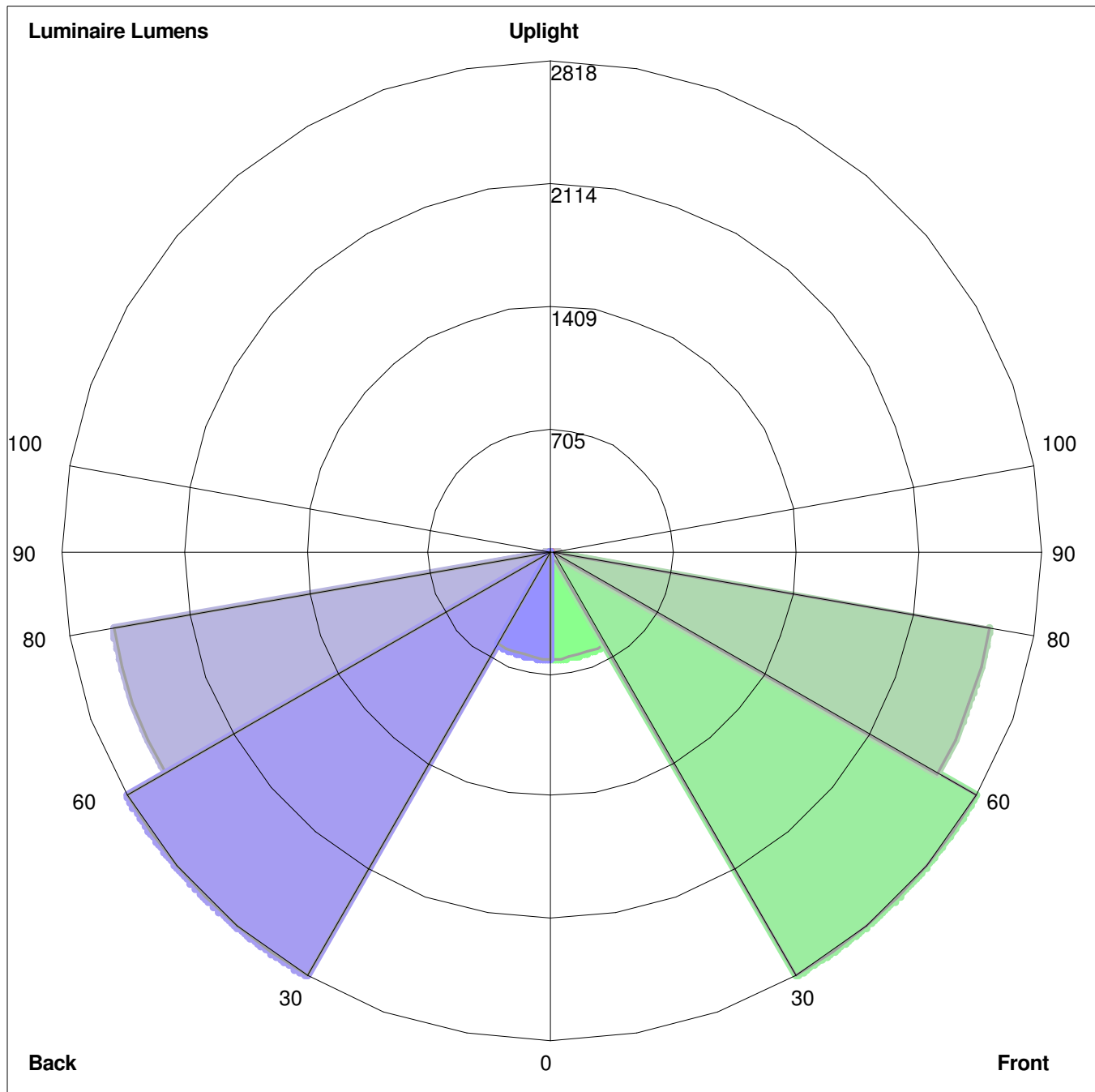


Maximum Candela = 5698.35 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=619.6, Medium=2818.3, High=2557.1, Very High=40.9
Back: Low=619.6, Medium=2818.3, High=2557.1, Very High=40.9
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2