



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L83-740-T3-F-S-XXX-EHS-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 20087.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 08 MARCH 2024
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] POLE MOUNTED LED AREA LIGHT
[MORE] TYPE III ACRYLIC OPTIC, CLEAR FLAT GLASS LENS
[MORE] W/ EXTERNAL HOUSE SIDE SHIELD
[LUMCAT] VA1-L83-740-T3-F-S-xxx-EHS-DIM-UNV
[LAMPCAT] LUXEON TX

CHARACTERISTICS

| | |
|---|---------------------------------|
| IES Classification | Type II |
| Longitudinal Classification | Short |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 7863 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 117 |
| Total Luminaire Watts | 67 |
| Ballast Factor | 1.00 |
| Maximum Candela | 6113.992 |
| Maximum Candela Angle | 55H 62.5V |
| Maximum Candela (<90 Degrees Vertical) | 6113.992 |
| Maximum Candela Angle (<90 Degrees Vertical) | 55H 62.5V |
| Maximum Candela At 90 Degrees Vertical | 20.503 (0.3% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 530.978 (6.8% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L83-740-T3-F-S-XXX-EHS-DIM-UNV_.IES

CANDELA TABULATION

Vert. Angles Horizontal Angles

| | <u>0</u> | <u>5</u> | <u>15</u> | <u>25</u> | <u>35</u> | <u>45</u> | <u>55</u> | <u>65</u> | <u>75</u> | <u>85</u> |
|------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0.0 | 1862.818 | 1862.818 | 1862.818 | 1862.818 | 1862.818 | 1862.818 | 1862.818 | 1862.818 | 1862.818 | 1862.818 |
| 5.0 | 2044.413 | 2035.208 | 2027.258 | 2029.769 | 2029.350 | 2021.818 | 2014.287 | 1982.487 | 1943.992 | 1893.363 |
| 10.0 | 2028.932 | 2024.329 | 2023.074 | 2024.747 | 2035.208 | 2049.853 | 2058.221 | 2053.619 | 2010.939 | 1931.858 |
| 15.0 | 2064.916 | 2062.405 | 2065.334 | 2049.434 | 2048.179 | 2061.569 | 2080.816 | 2095.879 | 2090.021 | 1993.366 |
| 20.0 | 2155.714 | 2155.295 | 2158.643 | 2133.537 | 2128.098 | 2133.119 | 2148.601 | 2176.635 | 2190.861 | 2092.950 |
| 25.0 | 2184.166 | 2179.982 | 2184.585 | 2203.414 | 2234.377 | 2262.412 | 2253.625 | 2274.127 | 2288.772 | 2192.953 |
| 30.0 | 2209.272 | 2203.832 | 2202.996 | 2204.669 | 2262.830 | 2383.754 | 2403.838 | 2376.641 | 2382.499 | 2283.751 |
| 35.0 | 2197.974 | 2201.322 | 2223.917 | 2275.383 | 2317.643 | 2488.778 | 2603.008 | 2531.039 | 2462.418 | 2372.038 |
| 40.0 | 2231.448 | 2246.511 | 2268.269 | 2373.294 | 2642.758 | 2956.575 | 2868.706 | 2730.627 | 2513.047 | 2370.365 |
| 45.0 | 2540.244 | 2547.357 | 2541.918 | 2570.371 | 2721.003 | 3115.575 | 3492.574 | 3336.921 | 2752.803 | 2447.354 |
| 50.0 | 2492.126 | 2513.884 | 2547.357 | 2789.624 | 3086.704 | 3268.718 | 3485.461 | 3575.004 | 3197.586 | 2785.021 |
| 55.0 | 1549.419 | 1585.404 | 1750.681 | 2454.049 | 3303.447 | 4168.745 | 4165.816 | 3784.215 | 3431.903 | 2887.953 |
| 60.0 | 1038.944 | 1020.533 | 1062.375 | 1275.352 | 2370.783 | 4659.974 | 5911.057 | 4665.413 | 4055.771 | 3391.734 |
| 62.5 | 713.829 | 717.595 | 732.240 | 817.180 | 1271.587 | 4114.350 | 6113.992 | 5618.162 | 4654.534 | 3790.073 |
| 65.0 | 617.173 | 623.450 | 650.229 | 683.703 | 778.266 | 3056.159 | 5372.966 | 6099.766 | 4917.304 | 3839.447 |
| 67.5 | 477.002 | 500.015 | 560.686 | 577.005 | 623.868 | 1443.140 | 4334.859 | 5753.312 | 4965.004 | 3761.202 |
| 70.0 | 353.567 | 336.412 | 382.857 | 482.860 | 490.391 | 820.945 | 2546.102 | 4602.650 | 4454.110 | 3345.289 |
| 72.5 | 267.791 | 246.451 | 271.138 | 359.425 | 372.396 | 513.823 | 1054.844 | 3088.378 | 3072.896 | 2004.245 |
| 75.0 | 188.290 | 172.390 | 188.709 | 236.827 | 292.477 | 346.454 | 541.439 | 1788.757 | 2167.011 | 1402.134 |
| 77.5 | 105.861 | 111.719 | 128.037 | 157.327 | 237.664 | 238.083 | 334.738 | 891.659 | 1359.455 | 795.840 |
| 80.0 | 62.345 | 61.090 | 76.571 | 94.564 | 161.511 | 153.561 | 211.303 | 333.483 | 530.978 | 245.196 |
| 82.5 | 32.637 | 25.942 | 34.729 | 46.863 | 71.132 | 86.195 | 112.974 | 137.243 | 139.753 | 75.735 |
| 85.0 | 12.971 | 8.368 | 11.297 | 13.390 | 23.432 | 38.913 | 43.516 | 47.282 | 43.934 | 35.566 |
| 87.5 | 6.276 | 5.439 | 6.695 | 8.368 | 10.879 | 16.737 | 20.084 | 21.758 | 22.176 | 21.758 |
| 90.0 | 4.603 | 4.184 | 5.439 | 7.113 | 9.624 | 13.390 | 17.574 | 20.503 | 20.503 | 20.503 |

Vert. Angles Horizontal Angles

| | <u>90</u> | <u>95</u> | <u>105</u> | <u>115</u> | <u>125</u> | <u>135</u> | <u>145</u> | <u>155</u> | <u>165</u> | <u>175</u> |
|------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0.0 | 1862.818 | 1862.818 | 1862.818 | 1862.818 | 1862.818 | 1862.818 | 1862.818 | 1862.818 | 1862.818 | 1862.818 |
| 5.0 | 1872.023 | 1849.428 | 1778.296 | 1718.044 | 1642.309 | 1584.148 | 1541.469 | 1507.995 | 1451.090 | 1433.516 |
| 10.0 | 1895.455 | 1844.407 | 1715.951 | 1566.575 | 1359.037 | 1142.712 | 1025.136 | 954.422 | 936.848 | 912.998 |
| 15.0 | 1940.226 | 1858.634 | 1655.699 | 1324.726 | 1029.738 | 919.275 | 891.240 | 875.340 | 869.064 | 868.227 |
| 20.0 | 2018.053 | 1890.434 | 1563.227 | 1061.538 | 916.764 | 887.056 | 869.901 | 856.930 | 843.959 | 846.888 |
| 25.0 | 2097.971 | 1941.900 | 1431.006 | 958.188 | 887.893 | 857.348 | 841.030 | 828.059 | 802.953 | 812.158 |
| 30.0 | 2165.337 | 1970.352 | 1267.402 | 923.459 | 854.838 | 807.974 | 776.174 | 718.850 | 679.100 | 686.213 |
| 35.0 | 2217.640 | 1988.345 | 1139.783 | 875.340 | 805.464 | 690.816 | 652.739 | 623.031 | 568.218 | 562.779 |
| 40.0 | 2205.924 | 1974.537 | 1071.162 | 834.335 | 702.113 | 619.684 | 525.120 | 486.626 | 468.633 | 431.812 |
| 45.0 | 2312.204 | 2104.248 | 1047.730 | 783.287 | 615.918 | 512.986 | 408.799 | 367.794 | 347.709 | 322.185 |
| 50.0 | 2558.236 | 2267.851 | 1210.915 | 869.482 | 630.981 | 432.231 | 321.767 | 294.570 | 296.662 | 293.314 |
| 55.0 | 2743.598 | 2556.981 | 1181.207 | 661.108 | 451.897 | 356.496 | 228.459 | 200.424 | 200.006 | 197.496 |
| 60.0 | 3202.607 | 3108.881 | 1544.817 | 574.494 | 313.817 | 192.474 | 89.542 | 12.553 | 4.184 | 2.092 |
| 62.5 | 3438.179 | 3291.313 | 1753.191 | 548.971 | 259.004 | 116.740 | 35.148 | 0.000 | 0.000 | 0.000 |
| 65.0 | 3500.106 | 3332.318 | 1809.260 | 577.005 | 207.956 | 82.011 | 27.197 | 0.000 | 0.000 | 0.000 |
| 67.5 | 3493.830 | 3279.597 | 1750.681 | 606.294 | 174.064 | 69.877 | 22.176 | 0.000 | 0.000 | 0.000 |
| 70.0 | 3174.573 | 2642.339 | 1625.154 | 630.563 | 143.101 | 61.090 | 17.992 | 0.000 | 0.000 | 0.000 |
| 72.5 | 1934.368 | 1710.094 | 1360.292 | 620.521 | 120.087 | 50.211 | 12.553 | 0.000 | 0.000 | 0.000 |
| 75.0 | 1332.258 | 1214.263 | 1110.075 | 589.976 | 95.400 | 38.076 | 9.205 | 0.000 | 0.000 | 0.000 |
| 77.5 | 734.750 | 813.832 | 793.329 | 521.773 | 65.274 | 26.779 | 5.858 | 0.000 | 0.000 | 0.000 |
| 80.0 | 289.130 | 360.262 | 415.912 | 358.588 | 42.679 | 14.226 | 3.766 | 0.000 | 0.000 | 0.000 |
| 82.5 | 73.642 | 78.663 | 133.058 | 144.356 | 23.850 | 6.276 | 1.255 | 0.000 | 0.000 | 0.000 |
| 85.0 | 34.311 | 28.453 | 23.850 | 18.411 | 8.787 | 2.929 | 0.000 | 0.000 | 0.000 | 0.000 |
| 87.5 | 19.666 | 18.829 | 16.318 | 12.553 | 7.950 | 3.766 | 0.837 | 0.000 | 0.000 | 0.000 |

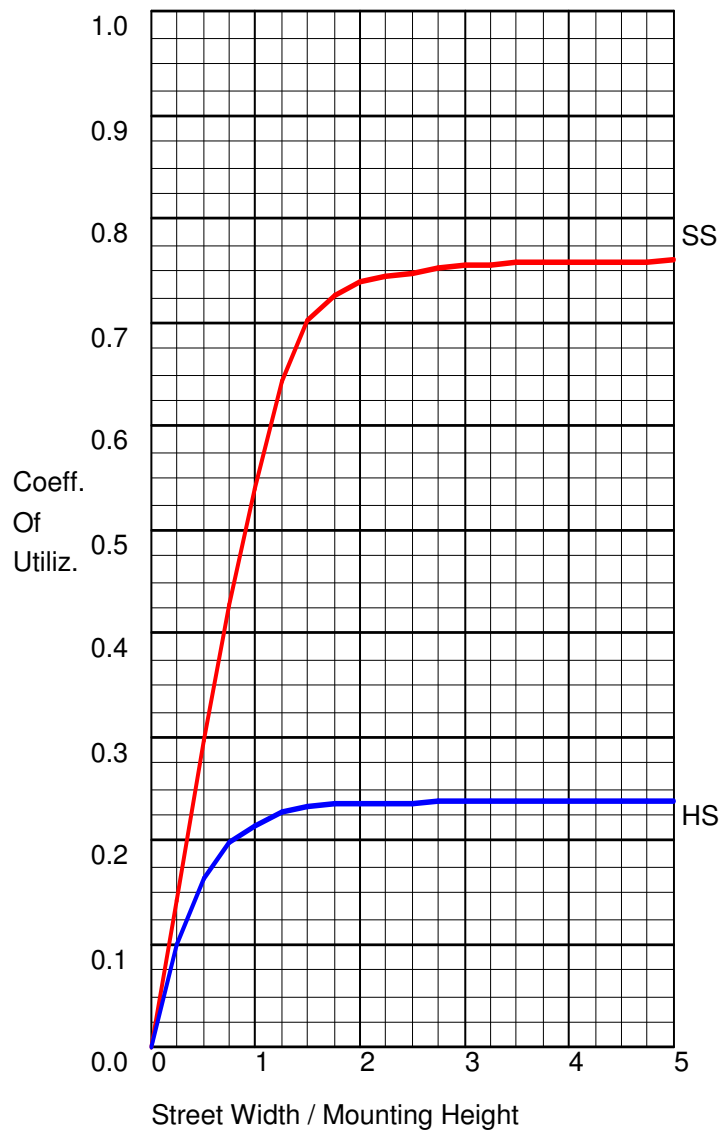
IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L83-740-T3-F-S-XXX-EHS-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

| | | | | | | | | | | |
|------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 90.0 | 18.829 | 18.411 | 16.318 | 12.134 | 7.950 | 3.766 | 0.418 | 0.000 | 0.000 | 0.000 |
|------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|

| Vert. Angles | Horizontal Angles |
|-----------------|-------------------|
|-----------------|-------------------|

| | |
|------|------------|
| | <u>180</u> |
| 0.0 | 1862.818 |
| 5.0 | 1437.700 |
| 10.0 | 920.530 |
| 15.0 | 867.809 |
| 20.0 | 843.540 |
| 25.0 | 799.606 |
| 30.0 | 671.987 |
| 35.0 | 553.573 |
| 40.0 | 426.373 |
| 45.0 | 312.562 |
| 50.0 | 287.456 |
| 55.0 | 227.622 |
| 60.0 | 2.511 |
| 62.5 | 0.000 |
| 65.0 | 0.000 |
| 67.5 | 0.000 |
| 70.0 | 0.000 |
| 72.5 | 0.000 |
| 75.0 | 0.000 |
| 77.5 | 0.000 |
| 80.0 | 0.000 |
| 82.5 | 0.000 |
| 85.0 | 0.000 |
| 87.5 | 0.000 |
| 90.0 | 0.000 |

COEFFICIENTS OF UTILIZATION



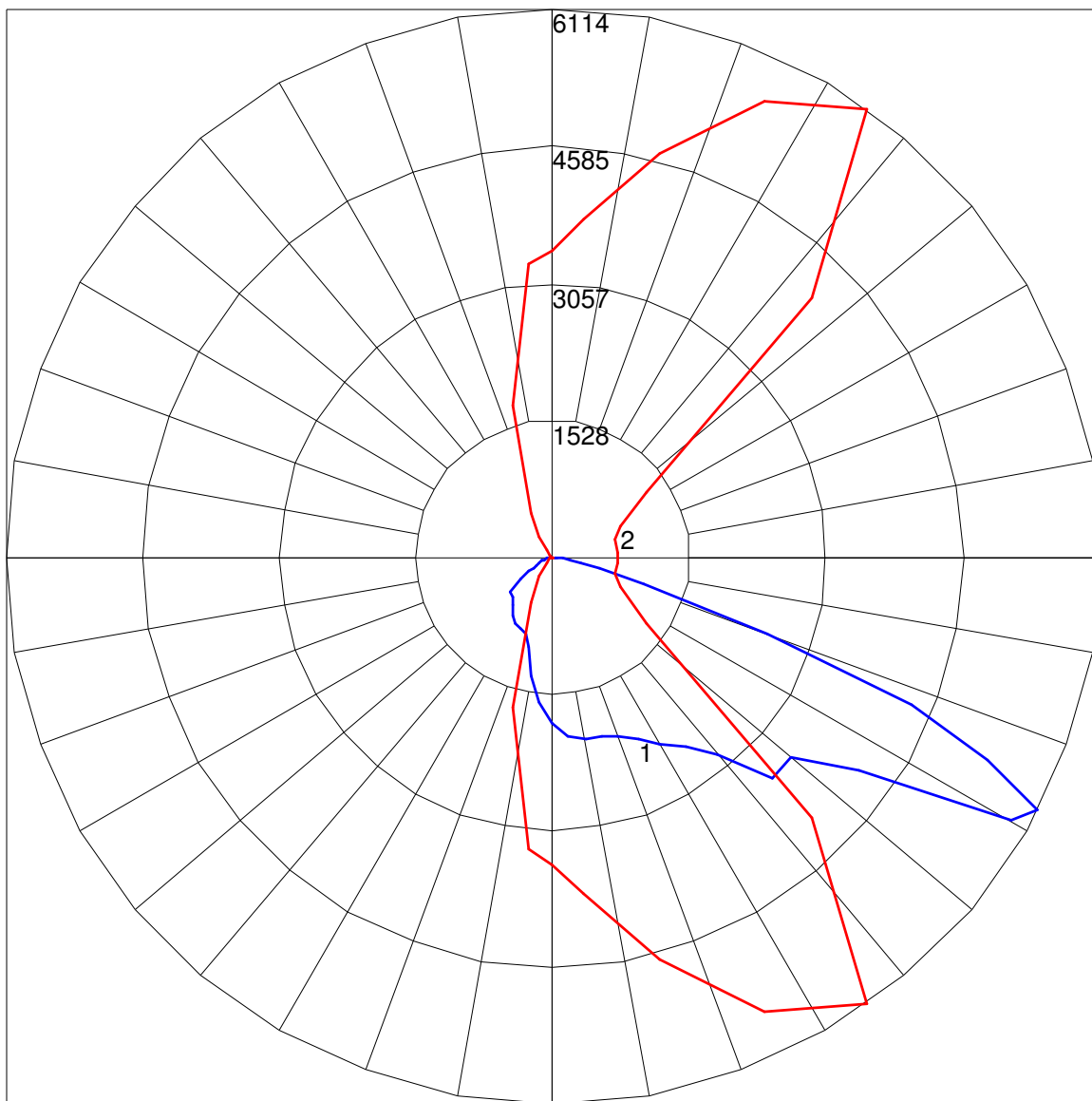
FLUX DISTRIBUTION

| | Lumens | Percent Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 5988.0 | 76.2 |
| Downward House Side | 1874.9 | 23.8 |
| Downward Total | 7862.9 | 100.0 |
| Upward Street Side | 0.0 | 0.0 |
| Upward House Side | 0.0 | 0.0 |
| Upward Total | 0.0 | 0.0 |
| Total Flux | 7862.9 | 100.0 |

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POLAR GRAPH



Maximum Candela = 6113.992 Located At Horizontal Angle = 55, Vertical Angle = 62.5

1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

