



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L380-730-T5-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011774
[TESTLAB] ATAL-LABS
[ISSUEDATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L380-730-T5-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA2 ARCHITECTURAL LED AREA LIGHT
[MORE] WITH TYPE V OPTICS, CLEAR LENS, (2) LED MODULES
[MORE] AND (2) ELECTRONIC DRIVERS
[LAMP] LED
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor, Area, Parking
[_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 | 37088 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 117 |
| Total Luminaire Watts | 317 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 17731.164 |
| Maximum Candela Angle | 45H 67.5V |
| Maximum Candela (<90 Degrees Vertical) | 17731.164 |
| 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 | 685.987 (1.8% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L380-730-T5-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30) | 1851.0 | N.A. | 5.0 |
| FM - Front-Medium (30-60) | 8510.3 | N.A. | 22.9 |
| FH - Front-High (60-80) | 8090.7 | N.A. | 21.8 |
| FVH - Front-Very High (80-90) | 92.1 | N.A. | 0.2 |
| BL - Back-Low (0-30) | 1851.0 | N.A. | 5.0 |
| BM - Back-Medium (30-60) | 8510.3 | N.A. | 22.9 |
| BH - Back-High (60-80) | 8090.7 | N.A. | 21.8 |
| BVH - Back-Very High (80-90) | 92.1 | N.A. | 0.2 |
| UL - Uplight-Low (90-100) | 0.0 | N.A. | 0.0 |
| UH - Uplight-High (100-180) | 0.0 | N.A. | 0.0 |
| Total | 37088.2 | N.A. | 100.0 |
| BUG Rating | B5-U0-G4 | | |

IES ROAD REPORT
PHOTOMETRIC FILENAME : VA2-L380-730-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 | 3901.553 | 3901.553 | 3901.553 | 3901.553 | 3901.553 | 3901.553 | 3901.553 | 3901.553 | 3901.553 | 3901.553 |
| 2.5 | 3890.834 | 3890.834 | 3893.514 | 3893.514 | 3892.174 | 3890.834 | 3890.834 | 3894.854 | 3896.194 | 3902.893 |
| 5.0 | 3917.631 | 3918.970 | 3921.650 | 3917.631 | 3914.951 | 3916.291 | 3913.611 | 3918.970 | 3921.650 | 3929.689 |
| 7.5 | 3965.864 | 3968.544 | 3968.544 | 3967.204 | 3964.524 | 3965.864 | 3963.184 | 3973.903 | 3976.583 | 3984.622 |
| 10.0 | 4023.476 | 4024.816 | 4024.816 | 4024.816 | 4023.476 | 4027.496 | 4028.836 | 4039.554 | 4042.234 | 4051.613 |
| 12.5 | 4089.127 | 4090.467 | 4089.127 | 4086.448 | 4087.788 | 4093.147 | 4097.166 | 4107.885 | 4113.244 | 4121.283 |
| 15.0 | 4165.497 | 4165.497 | 4157.458 | 4157.458 | 4160.138 | 4162.817 | 4168.177 | 4176.216 | 4181.575 | 4190.954 |
| 17.5 | 4259.284 | 4252.585 | 4240.527 | 4239.187 | 4239.187 | 4239.187 | 4240.527 | 4248.566 | 4253.925 | 4260.624 |
| 20.0 | 4361.111 | 4349.052 | 4331.635 | 4331.635 | 4328.955 | 4326.275 | 4324.936 | 4330.295 | 4330.295 | 4338.334 |
| 22.5 | 4470.976 | 4454.898 | 4441.500 | 4434.801 | 4429.441 | 4428.102 | 4417.383 | 4422.742 | 4420.063 | 4424.082 |
| 25.0 | 4588.880 | 4575.482 | 4563.423 | 4556.724 | 4548.685 | 4540.646 | 4528.588 | 4529.928 | 4524.569 | 4525.908 |
| 27.5 | 4733.580 | 4716.163 | 4704.104 | 4697.405 | 4682.667 | 4678.648 | 4663.910 | 4662.570 | 4651.851 | 4659.890 |
| 30.0 | 4903.737 | 4884.980 | 4874.261 | 4864.883 | 4852.824 | 4844.785 | 4827.368 | 4827.368 | 4813.970 | 4822.008 |
| 32.5 | 5087.293 | 5069.875 | 5059.156 | 5061.836 | 5044.418 | 5052.457 | 5036.379 | 5033.700 | 5016.282 | 5018.962 |
| 35.0 | 5325.780 | 5305.683 | 5289.605 | 5297.644 | 5292.285 | 5297.644 | 5286.926 | 5289.605 | 5270.848 | 5285.586 |
| 37.5 | 5609.822 | 5591.064 | 5579.006 | 5596.424 | 5584.365 | 5609.822 | 5597.764 | 5608.482 | 5592.404 | 5613.841 |
| 40.0 | 5931.379 | 5911.281 | 5899.223 | 5924.679 | 5940.757 | 5971.573 | 5978.272 | 5997.030 | 5986.311 | 6013.107 |
| 42.5 | 6240.877 | 6231.498 | 6230.158 | 6275.712 | 6315.907 | 6374.859 | 6411.034 | 6440.510 | 6441.850 | 6476.685 |
| 45.0 | 6562.433 | 6557.074 | 6574.492 | 6632.104 | 6695.075 | 6800.921 | 6841.116 | 6901.407 | 6920.165 | 6949.641 |
| 47.5 | 6901.407 | 6909.446 | 6937.583 | 7011.273 | 7103.720 | 7225.644 | 7279.236 | 7362.305 | 7389.102 | 7430.636 |
| 50.0 | 7326.130 | 7340.868 | 7371.684 | 7464.131 | 7590.074 | 7754.872 | 7820.523 | 7907.611 | 7921.010 | 7962.544 |
| 52.5 | 7851.339 | 7866.077 | 7904.932 | 8044.273 | 8218.449 | 8439.520 | 8527.948 | 8572.162 | 8582.880 | 8620.395 |
| 55.0 | 8475.695 | 8497.132 | 8570.822 | 8779.834 | 9049.137 | 9334.519 | 9473.860 | 9510.035 | 9497.977 | 9554.249 |
| 57.5 | 9126.847 | 9168.381 | 9310.402 | 9631.958 | 10067.400 | 10473.365 | 10691.755 | 10674.338 | 10697.115 | 10725.251 |
| 60.0 | 9779.339 | 9828.912 | 10092.856 | 10591.269 | 11216.964 | 11805.145 | 12174.935 | 12178.954 | 12200.391 | 12191.013 |
| 62.5 | 10078.118 | 10154.488 | 10603.327 | 11242.421 | 12130.721 | 13067.254 | 13743.863 | 13955.554 | 14006.467 | 13982.351 |
| 65.0 | 9567.647 | 9696.270 | 10332.684 | 11203.566 | 12400.024 | 13686.251 | 14882.709 | 15561.997 | 15939.826 | 16101.944 |
| 67.0 | 8388.606 | 8538.666 | 9231.353 | 10348.762 | 11700.639 | 13269.567 | 14952.380 | 16231.907 | 17006.322 | 17539.570 |
| 67.5 | 7953.165 | 8108.584 | 8795.911 | 9976.292 | 11346.927 | 12990.885 | 14790.261 | 16252.004 | 17136.284 | 17731.164 |
| 70.0 | 4878.281 | 5025.661 | 5663.415 | 6838.436 | 8207.731 | 10122.332 | 12417.442 | 14700.494 | 16233.246 | 16940.671 |
| 72.5 | 2145.050 | 2217.400 | 2560.394 | 3070.865 | 3838.581 | 5325.780 | 7407.859 | 9870.446 | 11597.473 | 12476.394 |
| 75.0 | 959.310 | 979.408 | 1059.797 | 1173.681 | 1354.557 | 1779.280 | 2560.394 | 4044.913 | 5410.189 | 6239.537 |
| 77.5 | 545.306 | 549.326 | 609.618 | 656.511 | 723.502 | 802.552 | 905.718 | 1136.166 | 1535.433 | 1811.435 |
| 80.0 | 351.033 | 348.353 | 368.450 | 412.664 | 466.257 | 505.112 | 541.287 | 588.181 | 651.152 | 685.987 |
| 82.5 | 210.352 | 207.672 | 214.371 | 233.128 | 276.003 | 297.440 | 313.518 | 330.935 | 348.353 | 347.013 |
| 85.0 | 71.010 | 77.709 | 85.748 | 96.467 | 124.603 | 129.962 | 136.662 | 139.341 | 129.962 | 123.263 |
| 87.5 | 8.039 | 9.379 | 13.398 | 14.738 | 20.097 | 21.437 | 22.777 | 24.117 | 22.777 | 20.097 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

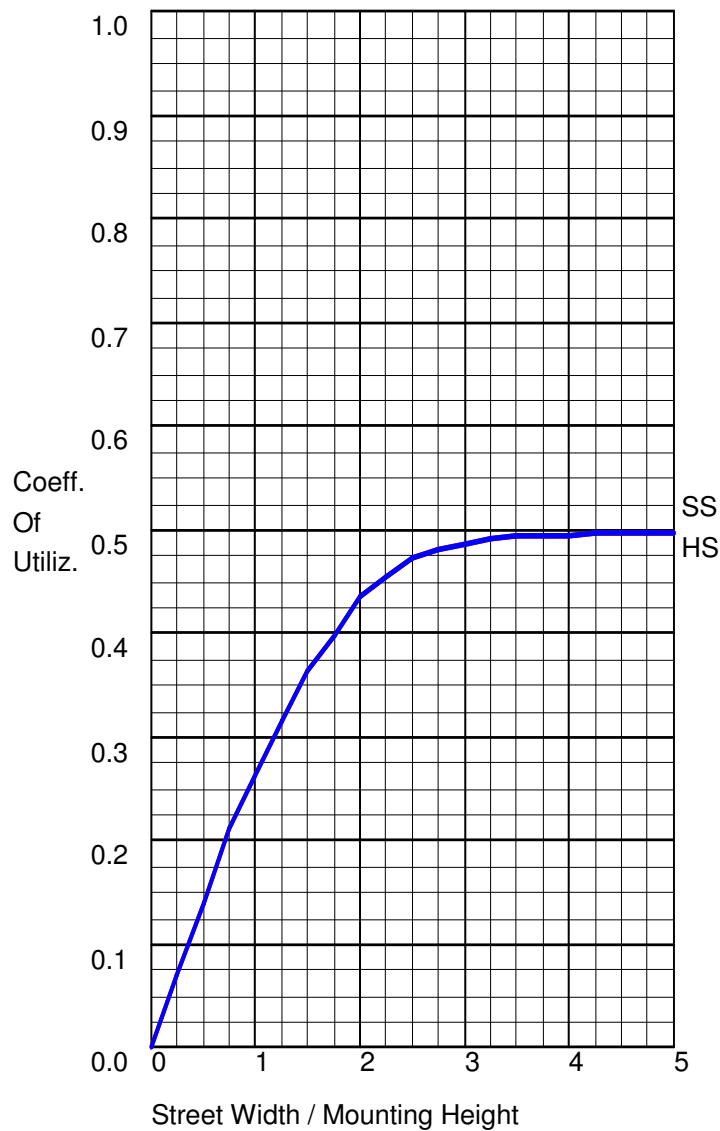
| Vert. Angles | Horizontal Angles | | | | | | | | |
|-------------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | <u>50</u> | <u>55</u> | <u>60</u> | <u>65</u> | <u>70</u> | <u>75</u> | <u>80</u> | <u>85</u> | <u>90</u> |
| 0.0 | 3901.553 | 3901.553 | 3901.553 | 3901.553 | 3901.553 | 3901.553 | 3901.553 | 3901.553 | 3901.553 |
| 2.5 | 3904.232 | 3906.912 | 3910.932 | 3914.951 | 3916.291 | 3918.970 | 3922.990 | 3921.650 | 3928.349 |
| 5.0 | 3932.369 | 3933.708 | 3943.087 | 3948.446 | 3949.786 | 3953.806 | 3959.165 | 3957.825 | 3961.845 |
| 7.5 | 3989.981 | 3994.000 | 4000.699 | 4008.738 | 4014.098 | 4018.117 | 4026.156 | 4023.476 | 4026.156 |
| 10.0 | 4058.312 | 4063.671 | 4070.370 | 4078.409 | 4086.448 | 4089.127 | 4099.846 | 4099.846 | 4098.506 |
| 12.5 | 4127.982 | 4136.021 | 4141.380 | 4148.079 | 4156.118 | 4162.817 | 4170.856 | 4174.876 | 4170.856 |
| 15.0 | 4196.313 | 4203.012 | 4209.711 | 4216.410 | 4225.789 | 4233.828 | 4244.546 | 4252.585 | 4245.886 |
| 17.5 | 4264.644 | 4271.343 | 4282.061 | 4290.100 | 4300.819 | 4310.198 | 4324.936 | 4335.654 | 4327.615 |
| 20.0 | 4342.353 | 4347.713 | 4357.091 | 4371.829 | 4385.227 | 4397.286 | 4414.703 | 4429.441 | 4425.422 |
| 22.5 | 4430.781 | 4436.141 | 4446.859 | 4458.917 | 4477.675 | 4495.093 | 4515.190 | 4535.287 | 4535.287 |
| 25.0 | 4533.947 | 4537.967 | 4551.365 | 4564.763 | 4587.540 | 4606.298 | 4634.434 | 4653.191 | 4654.531 |

IES ROAD REPORT
PHOTOMETRIC FILENAME : VA2-L380-730-T5-F-S-XXX-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 27.5 | 4659.890 | 4669.269 | 4681.327 | 4697.405 | 4721.522 | 4740.279 | 4763.056 | 4779.134 | 4789.853 |
| 30.0 | 4823.348 | 4830.047 | 4844.785 | 4858.184 | 4887.660 | 4905.077 | 4927.854 | 4934.553 | 4951.971 |
| 32.5 | 5028.341 | 5036.379 | 5056.477 | 5068.535 | 5093.992 | 5103.370 | 5122.128 | 5123.468 | 5142.225 |
| 35.0 | 5286.926 | 5300.324 | 5317.741 | 5324.441 | 5345.878 | 5349.897 | 5368.655 | 5364.635 | 5382.053 |
| 37.5 | 5611.162 | 5624.560 | 5639.298 | 5644.657 | 5663.415 | 5656.716 | 5660.735 | 5659.395 | 5671.454 |
| 40.0 | 6014.447 | 6006.408 | 6033.205 | 6029.185 | 6035.884 | 6001.049 | 5984.971 | 5979.612 | 5987.651 |
| 42.5 | 6464.626 | 6457.927 | 6474.005 | 6452.568 | 6416.393 | 6354.761 | 6318.586 | 6309.207 | 6317.246 |
| 45.0 | 6933.563 | 6916.145 | 6910.786 | 6865.232 | 6795.562 | 6712.493 | 6665.599 | 6654.881 | 6657.560 |
| 47.5 | 7410.539 | 7379.723 | 7351.587 | 7302.013 | 7205.546 | 7106.400 | 7050.127 | 7035.389 | 7031.370 |
| 50.0 | 7943.787 | 7919.670 | 7888.854 | 7852.679 | 7713.338 | 7586.055 | 7513.705 | 7492.268 | 7490.928 |
| 52.5 | 8633.793 | 8663.269 | 8624.415 | 8540.006 | 8356.451 | 8174.235 | 8075.089 | 8036.234 | 8017.477 |
| 55.0 | 9637.318 | 9662.774 | 9606.502 | 9432.325 | 9187.139 | 8897.738 | 8734.280 | 8667.289 | 8655.230 |
| 57.5 | 10871.291 | 10896.748 | 10831.096 | 10576.531 | 10216.120 | 9780.678 | 9543.530 | 9421.607 | 9400.170 |
| 60.0 | 12335.713 | 12373.228 | 12303.557 | 12004.778 | 11498.326 | 10871.291 | 10450.588 | 10238.896 | 10122.332 |
| 62.5 | 14129.731 | 14171.265 | 14088.196 | 13577.725 | 12772.494 | 11901.612 | 11234.382 | 10841.815 | 10679.697 |
| 65.0 | 16296.218 | 16154.197 | 15682.581 | 14574.551 | 13272.247 | 12075.788 | 11148.634 | 10458.627 | 10315.266 |
| 67.0 | 17559.667 | 17023.740 | 15858.097 | 14172.605 | 12511.229 | 11099.060 | 9995.049 | 9157.663 | 9058.516 |
| 67.5 | 17705.707 | 17041.157 | 15702.678 | 13863.107 | 12134.740 | 10683.716 | 9535.491 | 8680.687 | 8597.618 |
| 70.0 | 16482.453 | 15239.101 | 13209.275 | 10886.029 | 8967.408 | 7275.217 | 6070.720 | 5341.858 | 5266.828 |
| 72.5 | 12023.535 | 10382.257 | 8000.059 | 5581.686 | 3988.641 | 3096.322 | 2658.201 | 2399.616 | 2375.499 |
| 75.0 | 5604.463 | 4027.496 | 2589.870 | 1858.329 | 1523.374 | 1300.964 | 1193.779 | 1145.545 | 1126.788 |
| 77.5 | 1503.277 | 1140.186 | 982.087 | 876.242 | 803.891 | 742.260 | 685.987 | 651.152 | 645.793 |
| 80.0 | 656.511 | 610.957 | 585.501 | 549.326 | 519.850 | 476.976 | 411.324 | 400.606 | 401.946 |
| 82.5 | 357.732 | 348.353 | 344.333 | 329.595 | 306.819 | 266.624 | 237.148 | 237.148 | 242.507 |
| 85.0 | 124.603 | 142.021 | 138.001 | 133.982 | 127.283 | 103.166 | 93.787 | 95.127 | 92.448 |
| 87.5 | 21.437 | 22.777 | 18.757 | 18.757 | 18.757 | 16.078 | 13.398 | 13.398 | 12.058 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

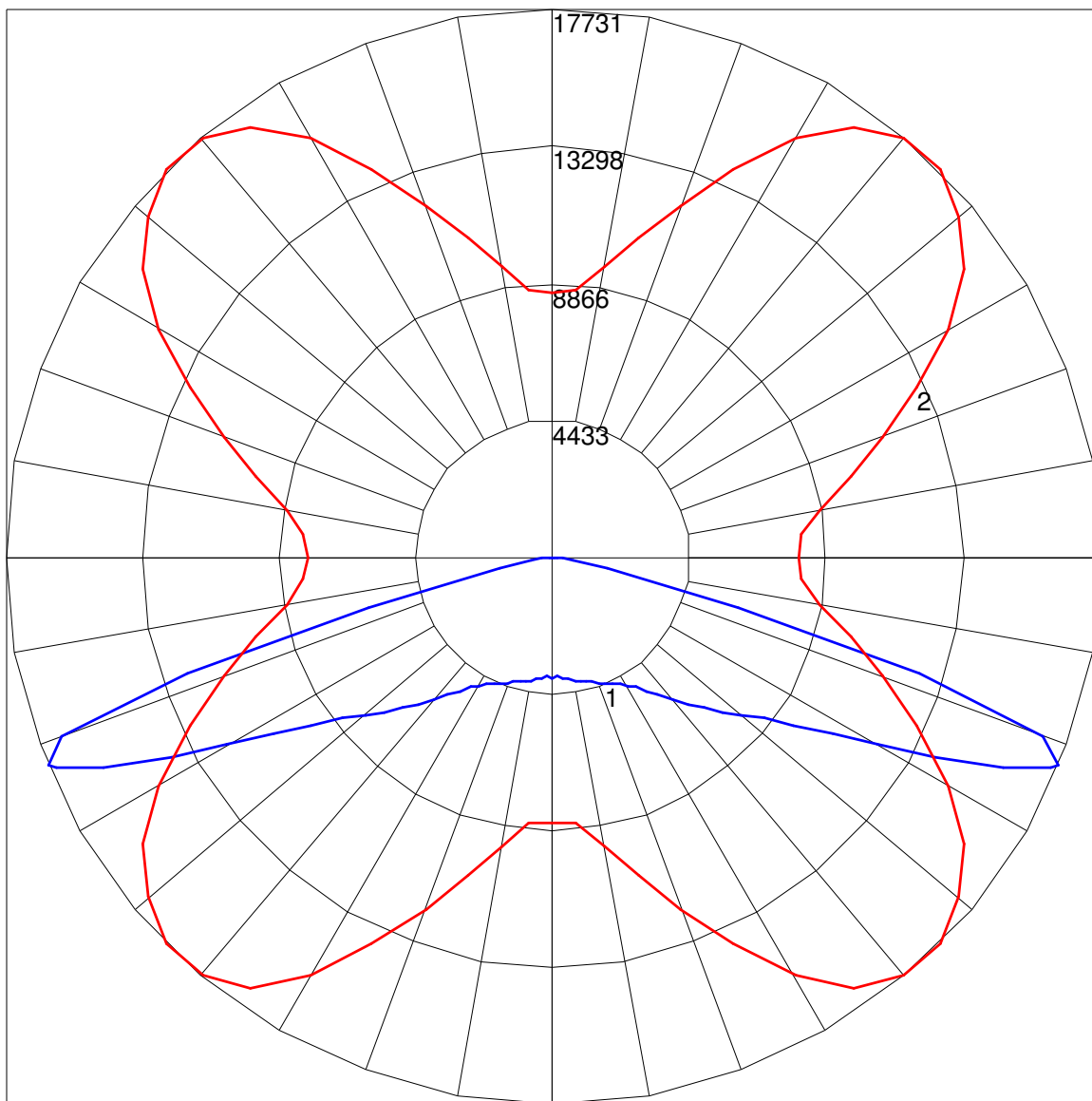
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

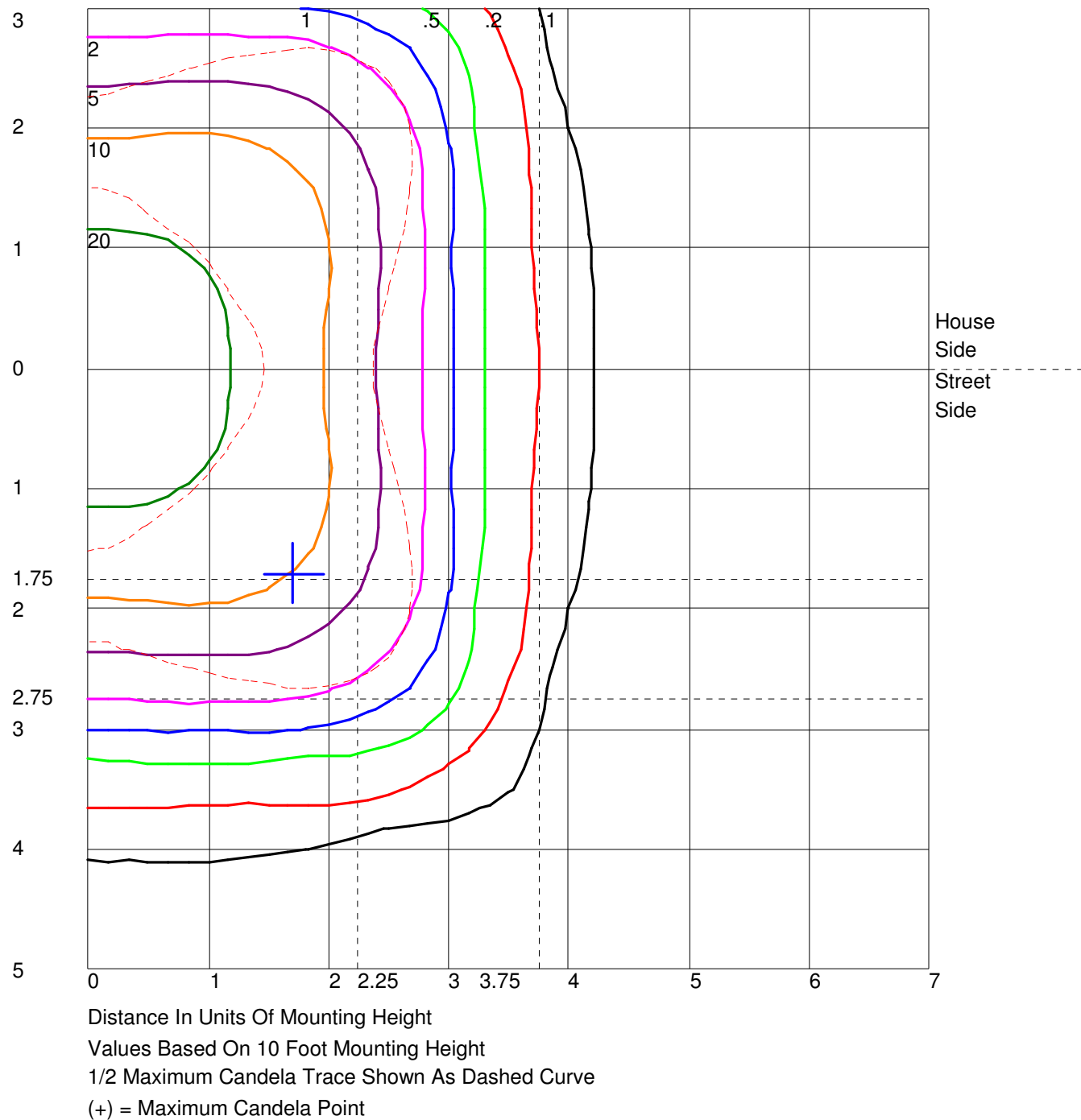
| | Lumens | Percent Of Luminaire |
|----------------------|---------|-------------------------|
| Downward Street Side | 18544.2 | 50.0 |
| Downward House Side | 18544.2 | 50.0 |
| Downward Total | 37088.4 | 100.0 |
| Upward Street Side | 0.0 | 0.0 |
| Upward House Side | 0.0 | 0.0 |
| Upward Total | 0.0 | 0.0 |
| Total Flux | 37088.4 | 100.0 |

POLAR GRAPH

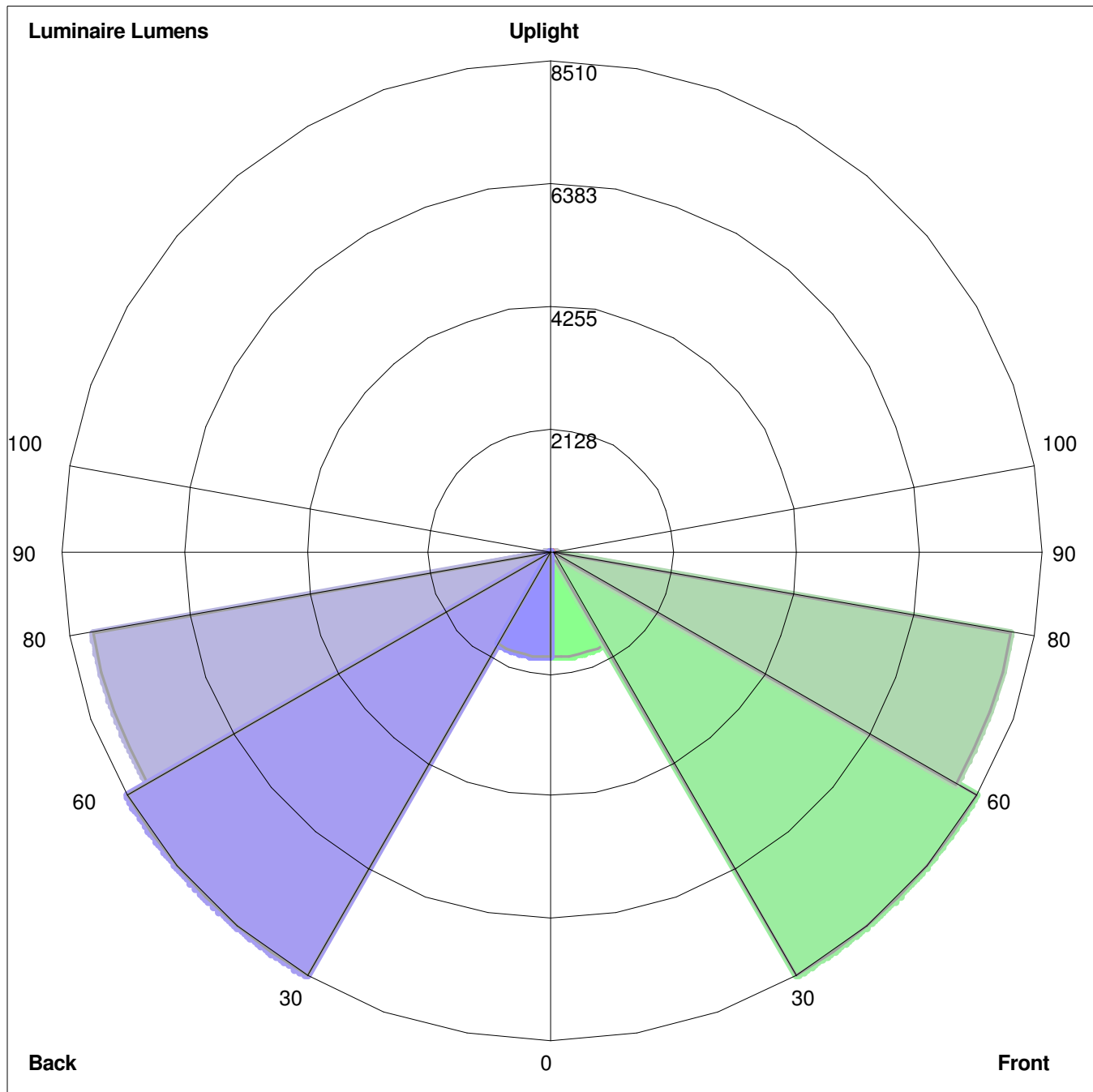


Maximum Candela = 17731.164 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
 Front: Low= 1851.0, Medium=8510.3, High=8090.7, Very High=92.1
 Back: Low= 1851.0, Medium=8510.3, High=8090.7, Very High=92.1
 Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G4