



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L160-750-T2-L-S-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM ATAL011757

[TESTLAB] ATAL-LABS

[ISSUEDATE] 2023-01-18

[MANUFAC] WILLIAMS OUTDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] VA1-L160-750-T2-F-S-xxx-DIM-UNV\_

[LUMINAIRE] VA1 LED AREA LIGHT FIXTURE WITH TYPE II

[MORE] OPTICS, CLEAR LENS

[LAMP] LED

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Outdoor, Architectural, Area, Parking, Site

[\_SEARCH\_MOUNTING] Pole

[\_CONVERT] Luminaire test position and photometric web converted from original test data

### CHARACTERISTICS

|   |                                 |
|---|---------------------------------|
| IES Classification                              | N.A.                            |
| Longitudinal Classification                     | N.A.                            |
| Lumens Per Lamp                                 | N.A. (absolute)                 |
| Total Lamp Lumens                               | N.A. (absolute)                 |
| Luminaire Lumens                                | 17686                           |
| Downward Total Efficiency                       | N.A. (absolute)                 |
| Total Luminaire Efficiency                      | N.A. (absolute)                 |
| Luminaire Efficacy Rating (LER)                 | 135                             |
| Total Luminaire Watts                           | 131                             |
| Ballast Factor                                  | 1.00                            |
| Upward Waste Light Ratio                        | 0.00                            |
| Maximum Candela                                 | 17898.47                        |
| Maximum Candela Angle                           | 12.5H 67.5V                     |
| Maximum Candela (<90 Degrees Vertical)          | 17898.47                        |
| Maximum Candela Angle (<90 Degrees Vertical)    | 12.5H 67.5V                     |
| Maximum Candela At 90 Degrees Vertical          | 0 (0.0% Luminaire Lumens)       |
| Maximum Candela from 80 to <90 Degrees Vertical | 685.078 (3.9% Luminaire Lumens) |
| Cutoff Classification (deprecated)              | N.A. (absolute)                 |

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA1-L160-750-T2-L-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

|                               | Lumens   | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30)         | 1956.4   | N.A.   | 11.1        |
| FM - Front-Medium (30-60)     | 4725.3   | N.A.   | 26.7        |
| FH - Front-High (60-80)       | 2107.4   | N.A.   | 11.9        |
| FVH - Front-Very High (80-90) | 53.8     | N.A.   | 0.3         |
| BL - Back-Low (0-30)          | 1956.4   | N.A.   | 11.1        |
| BM - Back-Medium (30-60)      | 4725.3   | N.A.   | 26.7        |
| BH - Back-High (60-80)        | 2107.4   | N.A.   | 11.9        |
| BVH - Back-Very High (80-90)  | 53.8     | 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                         | 17685.8  | N.A.   | 100.0       |
| BUG Rating                    | B3-U0-G3 |        |             |

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**CANDELA TABULATION**

| Vert.<br>Angles | Horizontal Angles |            |            |            |             |             |             |             |             |             |
|-----------------|-------------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                 | <u>0.0</u>        | <u>2.5</u> | <u>5.0</u> | <u>7.5</u> | <u>10.0</u> | <u>12.5</u> | <u>15.0</u> | <u>17.5</u> | <u>20.0</u> | <u>22.5</u> |
| 0.0             | 3888.304          | 3888.304   | 3888.304   | 3888.304   | 3888.304    | 3888.304    | 3888.304    | 3888.304    | 3888.304    | 3888.304    |
| 2.5             | 3909.684          | 3949.190   | 3988.696   | 4028.976   | 4069.257    | 4109.537    | 4155.085    | 4185.760    | 4216.435    | 4247.110    |
| 5.0             | 3902.248          | 3994.273   | 4086.298   | 4177.704   | 4269.109    | 4360.515    | 4456.259    | 4532.715    | 4609.170    | 4685.626    |
| 7.5             | 3905.966          | 4049.117   | 4192.267   | 4334.798   | 4477.329    | 4619.860    | 4745.349    | 4868.979    | 4992.609    | 5116.239    |
| 10.0            | 3923.627          | 4115.115   | 4306.602   | 4495.610   | 4684.619    | 4873.627    | 5046.523    | 5211.750    | 5376.978    | 5542.205    |
| 12.5            | 3954.302          | 4195.520   | 4436.738   | 4673.153   | 4909.569    | 5145.984    | 5359.781    | 5567.071    | 5774.360    | 5981.650    |
| 15.0            | 4012.864          | 4301.954   | 4591.044   | 4874.866   | 5158.689    | 5442.511    | 5699.066    | 5960.270    | 6221.473    | 6482.677    |
| 17.5            | 4092.805          | 4433.950   | 4775.094   | 5109.732   | 5444.369    | 5779.007    | 6082.041    | 6383.215    | 6684.389    | 6985.562    |
| 20.0            | 4204.351          | 4600.339   | 4996.327   | 5385.188   | 5774.050    | 6162.911    | 6523.576    | 6862.165    | 7200.753    | 7539.342    |
| 22.5            | 4350.290          | 4801.122   | 5251.953   | 5702.784   | 6153.616    | 6604.447    | 7026.463    | 7388.755    | 7751.047    | 8113.338    |
| 25.0            | 4512.032          | 5027.467   | 5542.902   | 6059.731   | 6576.561    | 7093.390    | 7570.249    | 7943.231    | 8316.212    | 8689.194    |
| 27.5            | 4694.224          | 5269.615   | 5845.005   | 6430.621   | 7016.237    | 7601.853    | 8130.767    | 8488.179    | 8845.591    | 9203.002    |
| 30.0            | 4895.006          | 5526.635   | 6158.264   | 6808.638   | 7459.013    | 8109.387    | 8667.117    | 8987.114    | 9307.112    | 9627.109    |
| 32.5            | 5085.564          | 5770.177   | 6454.790   | 7169.303   | 7883.817    | 8598.330    | 9218.340    | 9461.882    | 9705.424    | 9948.965    |
| 35.0            | 5243.587          | 5972.354   | 6701.120   | 7478.533   | 8255.946    | 9033.359    | 9703.564    | 9858.799    | 10014.034   | 10169.268   |
| 37.5            | 5399.751          | 6152.222   | 6904.692   | 7746.244   | 8587.795    | 9429.347    | 10130.227   | 10198.317   | 10266.406   | 10334.496   |
| 40.0            | 5598.675          | 6381.820   | 7164.965   | 8062.910   | 8960.854    | 9858.799    | 10529.934   | 10516.688   | 10503.442   | 10490.195   |
| 42.5            | 5780.867          | 6588.645   | 7396.423   | 8344.873   | 9293.323    | 10241.773   | 10897.105   | 10857.367   | 10817.629   | 10777.891   |
| 45.0            | 6003.958          | 6829.398   | 7654.838   | 8646.667   | 9638.496    | 10630.325   | 11195.491   | 11300.298   | 11405.104   | 11509.911   |
| 47.5            | 6308.851          | 7151.023   | 7993.194   | 9022.515   | 10051.835   | 11081.156   | 11615.647   | 11869.414   | 12123.181   | 12376.948   |
| 50.0            | 7188.204          | 8071.276   | 8954.348   | 10046.258  | 11138.169   | 12230.079   | 12843.582   | 12923.756   | 13003.929   | 13084.103   |
| 52.5            | 8557.430          | 9533.457   | 10509.483  | 11714.489  | 12919.494   | 14124.500   | 14795.635   | 14532.340   | 14269.046   | 14005.751   |
| 55.0            | 9613.398          | 10640.085  | 11666.772  | 13077.518  | 14488.264   | 15899.010   | 16513.442   | 15882.278   | 15251.114   | 14619.950   |
| 57.5            | 9475.825          | 10448.134  | 11420.442  | 13128.953  | 14837.465   | 16545.976   | 17032.130   | 16021.245   | 15010.361   | 13999.476   |
| 60.0            | 9127.244          | 10076.314  | 11025.383  | 12921.973  | 14818.564   | 16715.154   | 16915.937   | 15454.918   | 13993.899   | 12532.880   |
| 62.5            | 8771.226          | 9717.043   | 10662.859  | 12731.726  | 14800.592   | 16869.459   | 16753.266   | 14801.213   | 12849.159   | 10897.106   |
| 65.0            | 8551.853          | 9517.655   | 10483.456  | 12683.079  | 14882.703   | 17082.326   | 16693.774   | 14173.069   | 11652.364   | 9131.659    |
| 67.5            | 8302.734          | 9416.334   | 10529.934  | 12986.113  | 15442.291   | 17898.470   | 17351.895   | 14160.985   | 10970.075   | 7779.165    |
| 70.0            | 6732.725          | 8044.784   | 9356.842   | 11661.504  | 13966.167   | 16270.829   | 15825.575   | 12652.791   | 9480.008    | 6307.224    |
| 72.5            | 4288.011          | 5506.650   | 6725.289   | 8117.754   | 9510.218    | 10902.683   | 10642.409   | 8458.433    | 6274.457    | 4090.481    |
| 75.0            | 1570.938          | 1872.577   | 2174.216   | 2686.397   | 3198.579    | 3710.760    | 3726.563    | 3040.788    | 2355.013    | 1669.238    |
| 77.5            | 416.438           | 478.718    | 540.998    | 632.094    | 723.189     | 814.285     | 789.187     | 721.795     | 654.403     | 587.010     |
| 80.0            | 217.515           | 243.078    | 268.640    | 303.033    | 337.427     | 371.820     | 363.454     | 343.934     | 324.413     | 304.893     |
| 82.5            | 124.560           | 136.644    | 148.728    | 159.573    | 170.417     | 181.262     | 187.769     | 177.079     | 166.390     | 155.700     |
| 85.0            | 48.337            | 51.126     | 53.914     | 58.872     | 63.829      | 68.787      | 70.646      | 65.998      | 61.351      | 56.703      |
| 87.5            | 4.648             | 4.648      | 4.648      | 5.887      | 7.127       | 8.366       | 8.366       | 8.134       | 7.901       | 7.669       |
| 90.0            | 0.000             | 0.000      | 0.000      | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 92.5            | 0.000             | 0.000      | 0.000      | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 95.0            | 0.000             | 0.000      | 0.000      | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 97.5            | 0.000             | 0.000      | 0.000      | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 100.0           | 0.000             | 0.000      | 0.000      | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 102.5           | 0.000             | 0.000      | 0.000      | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 105.0           | 0.000             | 0.000      | 0.000      | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 107.5           | 0.000             | 0.000      | 0.000      | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 110.0           | 0.000             | 0.000      | 0.000      | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 112.5           | 0.000             | 0.000      | 0.000      | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 115.0           | 0.000             | 0.000      | 0.000      | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 117.5           | 0.000             | 0.000      | 0.000      | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 120.0           | 0.000             | 0.000      | 0.000      | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 122.5           | 0.000             | 0.000      | 0.000      | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 125.0           | 0.000             | 0.000      | 0.000      | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 127.5           | 0.000             | 0.000      | 0.000      | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 130.0           | 0.000             | 0.000      | 0.000      | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |

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**CANDELA TABULATION - (Cont.)**

|       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

**Vert. Horizontal Angles**

|      | <u>25.0</u> | <u>27.5</u> | <u>30.0</u> | <u>32.5</u> | <u>35.0</u> | <u>37.5</u> | <u>40.0</u> | <u>42.5</u> | <u>45.0</u> | <u>47.5</u> |
|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0.0  | 3888.304    | 3888.304    | 3888.304    | 3888.304    | 3888.304    | 3888.304    | 3888.304    | 3888.304    | 3888.304    | 3888.304    |
| 2.5  | 4277.785    | 4311.714    | 4345.643    | 4379.571    | 4413.500    | 4439.063    | 4464.625    | 4490.188    | 4515.750    | 4538.292    |
| 5.0  | 4762.081    | 4836.677    | 4911.274    | 4985.870    | 5060.466    | 5122.514    | 5184.561    | 5246.609    | 5308.656    | 5363.267    |
| 7.5  | 5239.869    | 5353.274    | 5466.679    | 5580.084    | 5693.489    | 5791.092    | 5888.695    | 5986.297    | 6083.900    | 6170.580    |
| 10.0 | 5707.432    | 5871.033    | 6034.634    | 6198.234    | 6361.835    | 6491.042    | 6620.250    | 6749.457    | 6878.664    | 6990.907    |
| 12.5 | 6188.939    | 6395.531    | 6602.124    | 6808.716    | 7015.308    | 7167.057    | 7318.806    | 7470.555    | 7622.304    | 7742.216    |
| 15.0 | 6743.880    | 6969.528    | 7195.176    | 7420.824    | 7646.472    | 7801.242    | 7956.012    | 8110.782    | 8265.552    | 8355.718    |
| 17.5 | 7286.736    | 7523.771    | 7760.807    | 7997.842    | 8234.877    | 8352.930    | 8470.983    | 8589.035    | 8707.088    | 8718.010    |
| 20.0 | 7877.930    | 8091.029    | 8304.128    | 8517.227    | 8730.326    | 8754.262    | 8778.198    | 8802.134    | 8826.070    | 8789.120    |
| 22.5 | 8475.630    | 8615.295    | 8754.960    | 8894.624    | 9034.289    | 8970.847    | 8907.406    | 8843.964    | 8780.522    | 8761.002    |
| 25.0 | 9062.175    | 9082.858    | 9103.540    | 9124.223    | 9144.905    | 9057.760    | 8970.615    | 8883.469    | 8796.324    | 8779.592    |
| 27.5 | 9560.414    | 9465.368    | 9370.321    | 9275.275    | 9180.228    | 9097.498    | 9014.769    | 8932.039    | 8849.309    | 8786.797    |
| 30.0 | 9947.106    | 9774.675    | 9602.244    | 9429.812    | 9257.381    | 9150.018    | 9042.655    | 8935.292    | 8827.929    | 8663.864    |
| 32.5 | 10192.507   | 9986.612    | 9780.717    | 9574.822    | 9368.927    | 9183.482    | 8998.037    | 8812.591    | 8627.146    | 8353.626    |
| 35.0 | 10324.503   | 10113.263   | 9902.023    | 9690.783    | 9479.543    | 9166.053    | 8852.562    | 8539.072    | 8225.581    | 7927.196    |
| 37.5 | 10402.585   | 10191.345   | 9980.105    | 9768.865    | 9557.625    | 9117.019    | 8676.413    | 8235.806    | 7795.200    | 7521.448    |
| 40.0 | 10476.949   | 10297.546   | 10118.143   | 9938.740    | 9759.337    | 9163.729    | 8568.120    | 7972.512    | 7376.903    | 7109.425    |
| 42.5 | 10738.153   | 10556.426   | 10374.699   | 10192.972   | 10011.245   | 9212.530    | 8413.815    | 7615.099    | 6816.384    | 6543.329    |
| 45.0 | 11614.717   | 11129.260   | 10643.803   | 10158.346   | 9672.889    | 8792.141    | 7911.394    | 7030.646    | 6149.898    | 5805.965    |
| 47.5 | 12630.715   | 11653.526   | 10676.338   | 9699.149    | 8721.960    | 7837.959    | 6953.958    | 6069.956    | 5185.955    | 4742.560    |
| 50.0 | 13164.276   | 11765.072   | 10365.868   | 966.664     | 7567.460    | 6531.478    | 5495.495    | 4459.513    | 3423.530    | 3195.791    |
| 52.5 | 13742.456   | 11740.904   | 9739.352    | 7737.800    | 5736.248    | 4890.591    | 4044.934    | 3199.276    | 2353.619    | 2295.755    |
| 55.0 | 13988.786   | 11355.838   | 8722.890    | 6089.942    | 3456.994    | 3099.582    | 2742.171    | 2384.759    | 2027.347    | 2000.390    |
| 57.5 | 12988.591   | 10427.218   | 7865.846    | 5304.473    | 2743.100    | 2527.909    | 2312.719    | 2097.528    | 1882.337    | 1879.084    |
| 60.0 | 11071.861   | 8948.073    | 6824.286    | 4700.498    | 2576.710    | 2376.392    | 2176.075    | 1975.757    | 1775.439    | 1783.340    |
| 62.5 | 8945.052    | 7299.053    | 5653.054    | 4007.054    | 2361.055    | 2172.357    | 1983.658    | 1794.960    | 1606.261    | 1607.888    |
| 65.0 | 6610.954    | 5465.982    | 4321.010    | 3176.037    | 2031.065    | 1865.605    | 1700.146    | 1534.686    | 1369.226    | 1376.198    |
| 67.5 | 4588.255    | 3845.545    | 3102.836    | 2360.126    | 1617.416    | 1494.251    | 1371.086    | 1247.920    | 1124.755    | 1132.889    |
| 70.0 | 3134.440    | 2647.821    | 2161.202    | 1674.583    | 1187.964    | 1113.833    | 1039.701    | 965.570     | 891.438     | 898.410     |
| 72.5 | 1906.505    | 1639.027    | 1371.550    | 1104.072    | 836.594     | 807.546     | 778.498     | 749.449     | 720.401     | 720.866     |
| 75.0 | 983.463     | 876.797     | 770.132     | 663.466     | 556.800     | 573.764     | 590.729     | 607.693     | 624.657     | 611.876     |
| 77.5 | 519.618     | 474.767     | 429.917     | 385.066     | 340.215     | 399.706     | 459.198     | 518.689     | 578.180     | 545.646     |

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : VA1-L160-750-T2-L-S-XXX-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |         |         |         |         |         |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 80.0  | 285.372 | 264.690 | 244.007 | 223.325 | 202.642 | 259.345 | 316.047 | 372.750 | 429.452 | 406.213 |
| 82.5  | 145.010 | 135.715 | 126.419 | 117.124 | 107.828 | 128.511 | 149.193 | 169.876 | 190.558 | 195.206 |
| 85.0  | 52.055  | 50.428  | 48.802  | 47.175  | 45.548  | 50.661  | 55.773  | 60.886  | 65.998  | 75.294  |
| 87.5  | 7.436   | 6.971   | 6.507   | 6.042   | 5.577   | 6.274   | 6.972   | 7.669   | 8.366   | 11.155  |
| 90.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 92.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 95.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 97.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 100.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 102.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 105.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 107.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 110.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 112.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 115.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 117.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 120.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 122.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 125.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 127.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 130.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 132.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 135.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 137.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 140.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 142.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 145.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 147.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 150.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 152.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 155.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 157.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 160.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 162.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 165.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 167.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 170.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 172.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 175.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 177.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 180.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |

**Vert. Horizontal Angles**  
**Angles**

|      | <u>50.0</u> | <u>52.5</u> | <u>55.0</u> | <u>57.5</u> | <u>60.0</u> | <u>62.5</u> | <u>65.0</u> | <u>67.5</u> | <u>70.0</u> | <u>72.5</u> |
|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0.0  | 3888.304    | 3888.304    | 3888.304    | 3888.304    | 3888.304    | 3888.304    | 3888.304    | 3888.304    | 3888.304    | 3888.304    |
| 2.5  | 4560.833    | 4583.375    | 4605.916    | 4618.930    | 4631.944    | 4644.957    | 4657.971    | 4681.907    | 4705.843    | 4729.779    |
| 5.0  | 5417.878    | 5472.489    | 5527.100    | 5562.423    | 5597.746    | 5633.068    | 5668.391    | 5709.291    | 5750.192    | 5791.092    |
| 7.5  | 6257.261    | 6343.941    | 6430.621    | 6493.598    | 6556.575    | 6619.552    | 6682.529    | 6741.091    | 6799.653    | 6858.214    |
| 10.0 | 7103.150    | 7215.393    | 7327.636    | 7406.648    | 7485.660    | 7564.671    | 7643.683    | 7708.287    | 7772.891    | 7837.494    |
| 12.5 | 7862.128    | 7982.039    | 8101.951    | 8176.547    | 8251.144    | 8325.740    | 8400.336    | 8447.511    | 8494.686    | 8541.860    |
| 15.0 | 8445.885    | 8536.051    | 8626.217    | 8652.709    | 8679.201    | 8705.693    | 8732.185    | 8728.235    | 8724.284    | 8720.334    |
| 17.5 | 8728.932    | 8739.854    | 8750.776    | 8724.749    | 8698.722    | 8672.694    | 8646.667    | 8628.541    | 8610.415    | 8592.288    |
| 20.0 | 8752.171    | 8715.221    | 8678.271    | 8664.328    | 8650.385    | 8636.442    | 8622.499    | 8620.640    | 8618.781    | 8616.921    |
| 22.5 | 8741.481    | 8721.961    | 8702.440    | 8695.236    | 8688.032    | 8680.828    | 8673.624    | 8651.082    | 8628.541    | 8605.999    |
| 25.0 | 8762.861    | 8746.129    | 8729.397    | 8686.405    | 8643.414    | 8600.422    | 8557.430    | 8481.672    | 8405.914    | 8330.155    |

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : VA1-L160-750-T2-L-S-XXX-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 27.5  | 8724.285 | 8661.772 | 8599.260 | 8477.954 | 8356.648 | 8235.341 | 8114.035 | 8001.095 | 7888.155 | 7775.214 |
| 30.0  | 8499.798 | 8335.733 | 8171.667 | 7987.152 | 7802.636 | 7618.121 | 7433.605 | 7317.411 | 7201.218 | 7085.024 |
| 32.5  | 8080.107 | 7806.587 | 7533.067 | 7378.297 | 7223.527 | 7068.757 | 6913.987 | 6833.349 | 6752.710 | 6672.072 |
| 35.0  | 7628.811 | 7330.425 | 7032.040 | 6926.536 | 6821.032 | 6715.528 | 6610.024 | 6534.963 | 6459.902 | 6384.841 |
| 37.5  | 7247.696 | 6973.943 | 6700.191 | 6600.265 | 6500.338 | 6400.412 | 6300.485 | 6214.037 | 6127.589 | 6041.140 |
| 40.0  | 6841.947 | 6574.469 | 6306.991 | 6177.552 | 6048.112 | 5918.673 | 5789.233 | 5675.131 | 5561.029 | 5446.926 |
| 42.5  | 6270.274 | 5997.219 | 5724.164 | 5529.888 | 5335.613 | 5141.337 | 4947.061 | 4815.995 | 4684.928 | 4553.862 |
| 45.0  | 5462.032 | 5118.098 | 4774.165 | 4522.490 | 4270.814 | 4019.139 | 3767.463 | 3665.213 | 3562.962 | 3460.712 |
| 47.5  | 4299.165 | 3855.770 | 3412.375 | 3257.838 | 3103.300 | 2948.763 | 2794.225 | 2751.001 | 2707.777 | 2664.553 |
| 50.0  | 2968.051 | 2740.312 | 2512.572 | 2453.081 | 2393.590 | 2334.098 | 2274.607 | 2264.614 | 2254.622 | 2244.629 |
| 52.5  | 2237.890 | 2180.026 | 2122.161 | 2093.113 | 2064.064 | 2035.016 | 2005.967 | 2021.305 | 2036.642 | 2051.980 |
| 55.0  | 1973.433 | 1946.476 | 1919.519 | 1918.590 | 1917.660 | 1916.731 | 1915.801 | 1925.329 | 1934.857 | 1944.384 |
| 57.5  | 1875.830 | 1872.577 | 1869.323 | 1870.020 | 1870.718 | 1871.415 | 1872.112 | 1835.163 | 1798.213 | 1761.264 |
| 60.0  | 1791.242 | 1799.143 | 1807.044 | 1777.531 | 1748.018 | 1718.504 | 1688.991 | 1644.838 | 1600.684 | 1556.531 |
| 62.5  | 1609.515 | 1611.141 | 1612.768 | 1583.952 | 1555.136 | 1526.320 | 1497.504 | 1449.632 | 1401.761 | 1353.889 |
| 65.0  | 1383.169 | 1390.141 | 1397.112 | 1368.529 | 1339.945 | 1311.362 | 1282.778 | 1231.885 | 1180.993 | 1130.100 |
| 67.5  | 1141.022 | 1149.156 | 1157.289 | 1128.008 | 1098.728 | 1069.447 | 1040.166 | 985.555  | 930.944  | 876.333  |
| 70.0  | 905.381  | 912.353  | 919.324  | 885.628  | 851.932  | 818.236  | 784.540  | 721.098  | 657.657  | 594.215  |
| 72.5  | 721.331  | 721.795  | 722.260  | 680.430  | 638.601  | 596.771  | 554.941  | 520.780  | 486.619  | 452.458  |
| 75.0  | 599.095  | 586.313  | 573.532  | 527.519  | 481.507  | 435.494  | 389.481  | 372.284  | 355.088  | 337.891  |
| 77.5  | 513.112  | 480.577  | 448.043  | 407.375  | 366.708  | 326.040  | 285.372  | 273.288  | 261.204  | 249.119  |
| 80.0  | 382.975  | 359.736  | 336.497  | 298.386  | 260.274  | 222.163  | 184.051  | 178.474  | 172.897  | 167.319  |
| 82.5  | 199.854  | 204.501  | 209.149  | 183.122  | 157.094  | 131.067  | 105.039  | 102.018  | 98.997   | 95.976   |
| 85.0  | 84.589   | 93.885   | 103.180  | 88.540   | 73.899   | 59.259   | 44.618   | 43.224   | 41.830   | 40.435   |
| 87.5  | 13.944   | 16.732   | 19.521   | 16.500   | 13.479   | 10.457   | 7.436    | 7.436    | 7.436    | 7.436    |
| 90.0  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 92.5  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 95.0  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 97.5  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 100.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 102.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 105.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 107.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 110.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 112.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 115.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 117.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 120.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 122.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 125.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 127.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 130.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 132.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 135.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 137.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 140.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 142.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 145.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 147.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 150.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 152.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 155.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 157.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 160.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 162.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 165.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : VA1-L160-750-T2-L-S-XXX-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 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>75.0</u> | <u>77.5</u> | <u>80.0</u> | <u>82.5</u> | <u>85.0</u> | <u>87.5</u> | <u>90.0</u> | <u>92.5</u> | <u>95.0</u> | <u>97.5</u> |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0.0   | 3888.304    | 3888.304    | 3888.304    | 3888.304    | 3888.304    | 3888.304    | 3888.304    | 3888.304    | 3888.304    | 3888.304    |
| 2.5   | 4753.715    | 4752.553    | 4751.391    | 4750.229    | 4749.067    | 4795.080    | 4841.092    | 4795.079    | 4749.067    | 4750.229    |
| 5.0   | 5831.992    | 5839.428    | 5846.865    | 5854.301    | 5861.737    | 5892.413    | 5923.088    | 5892.412    | 5861.737    | 5854.301    |
| 7.5   | 6916.776    | 6933.973    | 6951.169    | 6968.366    | 6985.562    | 7013.449    | 7041.335    | 7013.448    | 6985.562    | 6968.366    |
| 10.0  | 7902.098    | 7924.407    | 7946.717    | 7969.026    | 7991.335    | 8027.587    | 8063.839    | 8027.587    | 7991.335    | 7969.026    |
| 12.5  | 8589.035    | 8607.858    | 8626.682    | 8645.505    | 8664.328    | 8680.131    | 8695.933    | 8680.130    | 8664.328    | 8645.505    |
| 15.0  | 8716.383    | 8717.777    | 8719.172    | 8720.566    | 8721.960    | 8721.960    | 8721.960    | 8721.960    | 8721.960    | 8720.566    |
| 17.5  | 8574.162    | 8575.324    | 8576.486    | 8577.648    | 8578.810    | 8581.134    | 8583.457    | 8581.134    | 8578.810    | 8577.648    |
| 20.0  | 8615.062    | 8614.133    | 8613.203    | 8612.274    | 8611.344    | 8611.809    | 8612.273    | 8611.809    | 8611.344    | 8612.274    |
| 22.5  | 8583.457    | 8566.493    | 8549.529    | 8532.564    | 8515.600    | 8510.488    | 8505.375    | 8510.488    | 8515.600    | 8532.564    |
| 25.0  | 8254.397    | 8213.497    | 8172.597    | 8131.696    | 8090.796    | 8080.571    | 8070.346    | 8080.571    | 8090.796    | 8131.696    |
| 27.5  | 7662.274    | 7589.072    | 7515.870    | 7442.668    | 7369.466    | 7357.382    | 7345.298    | 7357.382    | 7369.466    | 7442.668    |
| 30.0  | 6968.830    | 6916.775    | 6864.721    | 6812.666    | 6760.611    | 6745.739    | 6730.866    | 6745.739    | 6760.611    | 6812.666    |
| 32.5  | 6591.433    | 6544.259    | 6497.084    | 6449.910    | 6402.735    | 6387.862    | 6372.989    | 6387.862    | 6402.735    | 6449.910    |
| 35.0  | 6309.780    | 6264.232    | 6218.684    | 6173.136    | 6127.588    | 6116.899    | 6106.209    | 6116.899    | 6127.588    | 6173.136    |
| 37.5  | 5954.692    | 5898.222    | 5841.752    | 5785.282    | 5728.812    | 5719.517    | 5710.221    | 5719.517    | 5728.812    | 5785.282    |
| 40.0  | 5332.824    | 5261.016    | 5189.209    | 5117.401    | 5045.593    | 5033.509    | 5021.425    | 5033.509    | 5045.593    | 5117.401    |
| 42.5  | 4422.795    | 4331.235    | 4239.674    | 4148.114    | 4056.553    | 4046.328    | 4036.103    | 4046.328    | 4056.553    | 4148.114    |
| 45.0  | 3358.461    | 3300.829    | 3243.197    | 3185.565    | 3127.933    | 3123.750    | 3119.567    | 3123.750    | 3127.933    | 3185.565    |
| 47.5  | 2621.329    | 2594.372    | 2567.415    | 2540.458    | 2513.501    | 2514.431    | 2515.360    | 2514.431    | 2513.501    | 2540.458    |
| 50.0  | 2234.636    | 2230.918    | 2227.200    | 2223.482    | 2219.764    | 2224.877    | 2229.989    | 2224.877    | 2219.764    | 2223.482    |
| 52.5  | 2067.317    | 2075.916    | 2084.514    | 2093.113    | 2101.711    | 2106.359    | 2111.006    | 2106.359    | 2101.711    | 2093.113    |
| 55.0  | 1953.912    | 1941.363    | 1928.815    | 1916.266    | 1903.717    | 1899.999    | 1896.280    | 1899.999    | 1903.717    | 1916.266    |
| 57.5  | 1724.314    | 1703.632    | 1682.949    | 1662.267    | 1641.584    | 1637.866    | 1634.148    | 1637.866    | 1641.584    | 1662.267    |
| 60.0  | 1512.377    | 1491.695    | 1471.012    | 1450.330    | 1429.647    | 1424.535    | 1419.422    | 1424.535    | 1429.647    | 1450.330    |
| 62.5  | 1306.017    | 1276.969    | 1247.920    | 1218.872    | 1189.823    | 1180.993    | 1172.162    | 1180.993    | 1189.823    | 1218.872    |
| 65.0  | 1079.207    | 1046.208    | 1013.209    | 980.210     | 947.211     | 937.451     | 927.690     | 937.451     | 947.211     | 980.210     |
| 67.5  | 821.722     | 784.540     | 747.358     | 710.176     | 672.994     | 664.628     | 656.262     | 664.628     | 672.994     | 710.176     |
| 70.0  | 530.773     | 518.921     | 507.070     | 495.218     | 483.366     | 480.577     | 477.788     | 480.577     | 483.366     | 495.218     |
| 72.5  | 418.297     | 408.769     | 399.242     | 389.714     | 380.186     | 377.862     | 375.538     | 377.862     | 380.186     | 389.714     |
| 75.0  | 320.694     | 312.096     | 303.498     | 294.899     | 286.301     | 283.513     | 280.724     | 283.513     | 286.301     | 294.899     |
| 77.5  | 237.035     | 228.902     | 220.768     | 212.635     | 204.501     | 200.783     | 197.064     | 200.783     | 204.501     | 212.635     |
| 80.0  | 161.742     | 155.700     | 149.658     | 143.615     | 137.573     | 134.320     | 131.066     | 134.320     | 137.573     | 143.615     |
| 82.5  | 92.955      | 89.469      | 85.984      | 82.498      | 79.012      | 79.012      | 79.012      | 79.012      | 79.012      | 82.498      |
| 85.0  | 39.041      | 37.647      | 36.253      | 34.858      | 33.464      | 33.464      | 33.464      | 33.464      | 33.464      | 34.858      |
| 87.5  | 7.436       | 7.204       | 6.972       | 6.739       | 6.507       | 6.507       | 6.507       | 6.507       | 6.507       | 6.739       |
| 90.0  | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 92.5  | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 95.0  | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 97.5  | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 100.0 | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 102.5 | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 105.0 | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 107.5 | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 110.0 | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |
| 112.5 | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       | 0.000       |

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : VA1-L160-750-T2-L-S-XXX-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 115.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 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>100.0</u> | <u>102.5</u> | <u>105.0</u> | <u>107.5</u> | <u>110.0</u> | <u>112.5</u> | <u>115.0</u> | <u>117.5</u> | <u>120.0</u> | <u>122.5</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0  | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     |
| 2.5  | 4751.391     | 4752.553     | 4753.715     | 4729.779     | 4705.843     | 4681.907     | 4657.971     | 4644.957     | 4631.943     | 4618.930     |
| 5.0  | 5846.865     | 5839.428     | 5831.992     | 5791.092     | 5750.192     | 5709.291     | 5668.391     | 5633.068     | 5597.745     | 5562.423     |
| 7.5  | 6951.169     | 6933.973     | 6916.776     | 6858.214     | 6799.653     | 6741.091     | 6682.529     | 6619.552     | 6556.575     | 6493.598     |
| 10.0 | 7946.717     | 7924.407     | 7902.098     | 7837.494     | 7772.891     | 7708.287     | 7643.683     | 7564.671     | 7485.659     | 7406.648     |
| 12.5 | 8626.682     | 8607.858     | 8589.035     | 8541.860     | 8494.686     | 8447.511     | 8400.336     | 8325.740     | 8251.143     | 8176.547     |
| 15.0 | 8719.172     | 8717.777     | 8716.383     | 8720.334     | 8724.284     | 8728.235     | 8732.185     | 8705.693     | 8679.201     | 8652.709     |
| 17.5 | 8576.486     | 8575.324     | 8574.162     | 8592.288     | 8610.414     | 8628.541     | 8646.667     | 8672.694     | 8698.722     | 8724.749     |
| 20.0 | 8613.203     | 8614.133     | 8615.062     | 8616.921     | 8618.781     | 8620.640     | 8622.499     | 8636.442     | 8650.385     | 8664.328     |
| 22.5 | 8549.529     | 8566.493     | 8583.457     | 8605.999     | 8628.540     | 8651.082     | 8673.624     | 8680.828     | 8688.032     | 8695.236     |
| 25.0 | 8172.597     | 8213.497     | 8254.397     | 8330.155     | 8405.913     | 8481.672     | 8557.430     | 8600.422     | 8643.414     | 8686.405     |
| 27.5 | 7515.870     | 7589.072     | 7662.274     | 7775.214     | 7888.154     | 8001.095     | 8114.035     | 8235.341     | 8356.648     | 8477.954     |
| 30.0 | 6864.721     | 6916.775     | 6968.830     | 7085.024     | 7201.217     | 7317.411     | 7433.605     | 7618.121     | 7802.636     | 7987.152     |
| 32.5 | 6497.084     | 6544.259     | 6591.433     | 6672.072     | 6752.710     | 6833.348     | 6913.987     | 7068.757     | 7223.527     | 7378.297     |
| 35.0 | 6218.684     | 6264.232     | 6309.780     | 6384.841     | 6459.902     | 6534.963     | 6610.024     | 6715.528     | 6821.032     | 6926.536     |
| 37.5 | 5841.752     | 5898.222     | 5954.692     | 6041.140     | 6127.588     | 6214.037     | 6300.485     | 6400.412     | 6500.338     | 6600.265     |
| 40.0 | 5189.209     | 5261.016     | 5332.824     | 5446.926     | 5561.028     | 5675.131     | 5789.233     | 5918.673     | 6048.112     | 6177.552     |
| 42.5 | 4239.674     | 4331.235     | 4422.795     | 4553.862     | 4684.928     | 4815.994     | 4947.061     | 5141.337     | 5335.613     | 5529.889     |
| 45.0 | 3243.197     | 3300.829     | 3358.461     | 3460.712     | 3562.962     | 3665.212     | 3767.463     | 4019.139     | 4270.814     | 4522.490     |
| 47.5 | 2567.415     | 2594.372     | 2621.329     | 2664.553     | 2707.777     | 2751.001     | 2794.225     | 2948.763     | 3103.300     | 3257.838     |
| 50.0 | 2227.200     | 2230.918     | 2234.636     | 2244.629     | 2254.622     | 2264.614     | 2274.607     | 2334.098     | 2393.590     | 2453.081     |
| 52.5 | 2084.514     | 2075.916     | 2067.317     | 2051.980     | 2036.642     | 2021.305     | 2005.967     | 2035.016     | 2064.064     | 2093.113     |
| 55.0 | 1928.815     | 1941.363     | 1953.912     | 1944.384     | 1934.857     | 1925.329     | 1915.801     | 1916.731     | 1917.660     | 1918.590     |
| 57.5 | 1682.949     | 1703.632     | 1724.314     | 1761.264     | 1798.213     | 1835.162     | 1872.112     | 1871.415     | 1870.718     | 1870.020     |
| 60.0 | 1471.012     | 1491.695     | 1512.377     | 1556.531     | 1600.684     | 1644.837     | 1688.991     | 1718.504     | 1748.018     | 1777.531     |



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : VA1-L160-750-T2-L-S-XXX-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 62.5  | 1247.920 | 1276.969 | 1306.017 | 1353.889 | 1401.760 | 1449.632 | 1497.504 | 1526.320 | 1555.136 | 1583.952 |
| 65.0  | 1013.209 | 1046.208 | 1079.207 | 1130.100 | 1180.992 | 1231.885 | 1282.778 | 1311.362 | 1339.945 | 1368.529 |
| 67.5  | 747.358  | 784.540  | 821.722  | 876.333  | 930.944  | 985.555  | 1040.166 | 1069.447 | 1098.728 | 1128.008 |
| 70.0  | 507.070  | 518.921  | 530.773  | 594.215  | 657.656  | 721.098  | 784.540  | 818.236  | 851.932  | 885.628  |
| 72.5  | 399.242  | 408.769  | 418.297  | 452.458  | 486.619  | 520.780  | 554.941  | 596.771  | 638.601  | 680.430  |
| 75.0  | 303.498  | 312.096  | 320.694  | 337.891  | 355.087  | 372.284  | 389.481  | 435.494  | 481.507  | 527.519  |
| 77.5  | 220.768  | 228.902  | 237.035  | 249.119  | 261.204  | 273.288  | 285.372  | 326.040  | 366.708  | 407.375  |
| 80.0  | 149.658  | 155.700  | 161.742  | 167.319  | 172.897  | 178.474  | 184.051  | 222.163  | 260.274  | 298.386  |
| 82.5  | 85.984   | 89.469   | 92.955   | 95.976   | 98.997   | 102.018  | 105.039  | 131.067  | 157.094  | 183.122  |
| 85.0  | 36.253   | 37.647   | 39.041   | 40.435   | 41.830   | 43.224   | 44.618   | 59.259   | 73.899   | 88.540   |
| 87.5  | 6.972    | 7.204    | 7.436    | 7.436    | 7.436    | 7.436    | 7.436    | 10.457   | 13.479   | 16.500   |
| 90.0  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 92.5  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 95.0  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 97.5  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 100.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 102.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 105.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 107.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 110.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 112.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 115.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 117.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 120.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 122.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 125.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 127.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 130.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 132.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 135.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 137.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 140.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 142.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 145.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 147.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 150.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 152.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 155.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 157.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 160.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 162.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 165.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 167.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 170.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 172.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 175.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 177.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 180.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |

**Vert. Horizontal Angles**  
**Angles**

|     | <u>125.0</u> | <u>127.5</u> | <u>130.0</u> | <u>132.5</u> | <u>135.0</u> | <u>137.5</u> | <u>140.0</u> | <u>142.5</u> | <u>145.0</u> | <u>147.5</u> |
|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     |
| 2.5 | 4605.916     | 4583.374     | 4560.833     | 4538.292     | 4515.750     | 4490.188     | 4464.625     | 4439.063     | 4413.500     | 4379.571     |
| 5.0 | 5527.100     | 5472.489     | 5417.878     | 5363.267     | 5308.656     | 5246.609     | 5184.561     | 5122.514     | 5060.466     | 4985.870     |
| 7.5 | 6430.621     | 6343.941     | 6257.261     | 6170.580     | 6083.900     | 5986.297     | 5888.695     | 5791.092     | 5693.489     | 5580.084     |

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : VA1-L160-750-T2-L-S-XXX-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |          |          |          |           |           |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|
| 10.0  | 7327.636 | 7215.393 | 7103.150 | 6990.907 | 6878.664 | 6749.457 | 6620.250 | 6491.042 | 6361.835  | 6198.235  |
| 12.5  | 8101.951 | 7982.039 | 7862.128 | 7742.216 | 7622.304 | 7470.555 | 7318.806 | 7167.057 | 7015.308  | 6808.716  |
| 15.0  | 8626.217 | 8536.051 | 8445.885 | 8355.718 | 8265.552 | 8110.782 | 7956.012 | 7801.242 | 7646.472  | 7420.824  |
| 17.5  | 8750.776 | 8739.854 | 8728.932 | 8718.010 | 8707.088 | 8589.035 | 8470.983 | 8352.930 | 8234.877  | 7997.842  |
| 20.0  | 8678.271 | 8715.221 | 8752.171 | 8789.120 | 8826.070 | 8802.134 | 8778.198 | 8754.262 | 8730.326  | 8517.227  |
| 22.5  | 8702.440 | 8721.961 | 8741.481 | 8761.002 | 8780.522 | 8843.964 | 8907.406 | 8970.847 | 9034.289  | 8894.624  |
| 25.0  | 8729.397 | 8746.129 | 8762.861 | 8779.592 | 8796.324 | 8883.469 | 8970.615 | 9057.760 | 9144.905  | 9124.223  |
| 27.5  | 8599.260 | 8661.772 | 8724.285 | 8786.797 | 8849.309 | 8932.039 | 9014.769 | 9097.498 | 9180.228  | 9275.274  |
| 30.0  | 8171.667 | 8335.733 | 8499.798 | 8663.864 | 8827.929 | 8935.292 | 9042.655 | 9150.018 | 9257.381  | 9429.812  |
| 32.5  | 7533.067 | 7806.587 | 8080.107 | 8353.626 | 8627.146 | 8812.591 | 8998.037 | 9183.482 | 9368.927  | 9574.822  |
| 35.0  | 7032.040 | 7330.426 | 7628.811 | 7927.196 | 8225.581 | 8539.072 | 8852.562 | 9166.053 | 9479.543  | 9690.783  |
| 37.5  | 6700.191 | 6973.944 | 7247.696 | 7521.448 | 7795.200 | 8235.806 | 8676.413 | 9117.019 | 9557.625  | 9768.865  |
| 40.0  | 6306.991 | 6574.469 | 6841.947 | 7109.425 | 7376.903 | 7972.512 | 8568.120 | 9163.729 | 9759.337  | 9938.740  |
| 42.5  | 5724.164 | 5997.219 | 6270.274 | 6543.329 | 6816.384 | 7615.099 | 8413.815 | 9212.530 | 10011.245 | 10192.972 |
| 45.0  | 4774.165 | 5118.099 | 5462.032 | 5805.965 | 6149.898 | 7030.646 | 7911.394 | 8792.141 | 9672.889  | 10158.345 |
| 47.5  | 3412.375 | 3855.771 | 4299.165 | 4742.560 | 5185.955 | 6069.956 | 6953.958 | 7837.959 | 8721.960  | 9699.147  |
| 50.0  | 2512.572 | 2740.312 | 2968.051 | 3195.791 | 3423.530 | 4459.513 | 5495.495 | 6531.478 | 7567.460  | 8966.662  |
| 52.5  | 2122.161 | 2180.026 | 2237.890 | 2295.755 | 2353.619 | 3199.276 | 4044.934 | 4890.591 | 5736.248  | 7737.797  |
| 55.0  | 1919.519 | 1946.476 | 1973.433 | 2000.390 | 2027.347 | 2384.759 | 2742.171 | 3099.582 | 3456.994  | 6089.938  |
| 57.5  | 1869.323 | 1872.577 | 1875.830 | 1879.084 | 1882.337 | 2097.528 | 2312.719 | 2527.909 | 2743.100  | 5304.469  |
| 60.0  | 1807.044 | 1799.143 | 1791.242 | 1783.340 | 1775.439 | 1975.757 | 2176.075 | 2376.392 | 2576.710  | 4700.495  |
| 62.5  | 1612.768 | 1611.141 | 1609.515 | 1607.888 | 1606.261 | 1794.960 | 1983.658 | 2172.357 | 2361.055  | 4007.052  |
| 65.0  | 1397.112 | 1390.140 | 1383.169 | 1376.198 | 1369.226 | 1534.686 | 1700.146 | 1865.605 | 2031.065  | 3176.036  |
| 67.5  | 1157.289 | 1149.155 | 1141.022 | 1132.889 | 1124.755 | 1247.920 | 1371.086 | 1494.251 | 1617.416  | 2360.125  |
| 70.0  | 919.324  | 912.352  | 905.381  | 898.410  | 891.438  | 965.570  | 1039.701 | 1113.833 | 1187.964  | 1674.582  |
| 72.5  | 722.260  | 721.795  | 721.331  | 720.866  | 720.401  | 749.449  | 778.498  | 807.546  | 836.594   | 1104.071  |
| 75.0  | 573.532  | 586.313  | 599.095  | 611.876  | 624.657  | 607.693  | 590.729  | 573.764  | 556.800   | 663.466   |
| 77.5  | 448.043  | 480.577  | 513.112  | 545.646  | 578.180  | 518.689  | 459.198  | 399.706  | 340.215   | 385.066   |
| 80.0  | 336.497  | 359.736  | 382.975  | 406.213  | 429.452  | 372.750  | 316.047  | 259.345  | 202.642   | 223.324   |
| 82.5  | 209.149  | 204.501  | 199.854  | 195.206  | 190.558  | 169.876  | 149.193  | 128.511  | 107.828   | 117.123   |
| 85.0  | 103.180  | 93.884   | 84.589   | 75.294   | 65.998   | 60.886   | 55.773   | 50.661   | 45.548    | 47.175    |
| 87.5  | 19.521   | 16.732   | 13.944   | 11.155   | 8.366    | 7.669    | 6.972    | 6.274    | 5.577     | 6.042     |
| 90.0  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 92.5  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 95.0  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 97.5  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 100.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 102.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 105.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 107.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 110.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 112.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 115.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 117.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 120.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 122.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 125.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 127.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 130.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 132.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 135.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 137.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 140.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 142.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 145.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |
| 147.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 0.000     |

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : VA1-L160-750-T2-L-S-XXX-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 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>150.0</u> | <u>152.5</u> | <u>155.0</u> | <u>157.5</u> | <u>160.0</u> | <u>162.5</u> | <u>165.0</u> | <u>167.5</u> | <u>170.0</u> | <u>172.5</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0  | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     |
| 2.5  | 4345.643     | 4311.714     | 4277.785     | 4247.110     | 4216.435     | 4185.760     | 4155.085     | 4109.537     | 4069.257     | 4028.976     |
| 5.0  | 4911.274     | 4836.677     | 4762.081     | 4685.626     | 4609.170     | 4532.715     | 4456.259     | 4360.515     | 4269.110     | 4177.703     |
| 7.5  | 5466.679     | 5353.274     | 5239.869     | 5116.239     | 4992.609     | 4868.979     | 4745.349     | 4619.860     | 4477.329     | 4334.798     |
| 10.0 | 6034.634     | 5871.033     | 5707.432     | 5542.205     | 5376.978     | 5211.751     | 5046.524     | 4873.628     | 4684.619     | 4495.610     |
| 12.5 | 6602.124     | 6395.532     | 6188.939     | 5981.650     | 5774.361     | 5567.071     | 5359.782     | 5145.985     | 4909.569     | 4673.153     |
| 15.0 | 7195.176     | 6969.528     | 6743.880     | 6482.677     | 6221.474     | 5960.270     | 5699.067     | 5442.512     | 5158.690     | 4874.865     |
| 17.5 | 7760.807     | 7523.772     | 7286.736     | 6985.563     | 6684.389     | 6383.216     | 6082.042     | 5779.008     | 5444.370     | 5109.731     |
| 20.0 | 8304.128     | 8091.029     | 7877.930     | 7539.343     | 7200.754     | 6862.166     | 6523.577     | 6162.912     | 5774.051     | 5385.187     |
| 22.5 | 8754.960     | 8615.295     | 8475.630     | 8113.339     | 7751.048     | 7388.756     | 7026.464     | 6604.448     | 6153.617     | 5702.783     |
| 25.0 | 9103.540     | 9082.858     | 9062.175     | 8689.195     | 8316.213     | 7943.232     | 7570.250     | 7093.391     | 6576.562     | 6059.730     |
| 27.5 | 9370.321     | 9465.367     | 9560.414     | 9203.003     | 8845.592     | 8488.180     | 8130.768     | 7601.855     | 7016.239     | 6430.619     |
| 30.0 | 9602.243     | 9774.674     | 9947.106     | 9627.110     | 9307.112     | 8987.115     | 8667.118     | 8109.389     | 7459.015     | 6808.636     |
| 32.5 | 9780.717     | 9986.612     | 10192.507    | 9948.966     | 9705.424     | 9461.883     | 9218.341     | 8598.332     | 7883.819     | 7169.301     |
| 35.0 | 9902.023     | 10113.263    | 10324.503    | 10169.269    | 10014.034    | 9858.799     | 9703.564     | 9033.361     | 8255.948     | 7478.531     |
| 37.5 | 9980.105     | 10191.345    | 10402.585    | 10334.496    | 10266.406    | 10198.317    | 10130.227    | 9429.349     | 8587.798     | 7746.241     |
| 40.0 | 10118.143    | 10297.546    | 10476.949    | 10490.195    | 10503.441    | 10516.688    | 10529.934    | 9858.801     | 8960.857     | 8062.907     |
| 42.5 | 10374.699    | 10556.426    | 10738.153    | 10777.891    | 10817.629    | 10857.367    | 10897.105    | 10241.775    | 9293.326     | 8344.870     |
| 45.0 | 10643.802    | 11129.259    | 11614.717    | 11509.911    | 11405.104    | 11300.298    | 11195.491    | 10630.327    | 9638.499     | 8646.664     |
| 47.5 | 10676.336    | 11653.525    | 12630.715    | 12376.949    | 12123.182    | 11869.415    | 11615.648    | 11081.158    | 10051.838    | 9022.512     |
| 50.0 | 10365.866    | 11765.070    | 13164.276    | 13084.103    | 13003.929    | 12923.756    | 12843.582    | 12230.081    | 11138.172    | 10046.255    |
| 52.5 | 9739.349     | 11740.901    | 13742.456    | 14005.750    | 14269.045    | 14532.339    | 14795.634    | 14124.502    | 12919.498    | 11714.485    |
| 55.0 | 8722.886     | 11355.834    | 13988.786    | 14619.948    | 15251.112    | 15882.276    | 16513.440    | 15899.012    | 14488.268    | 13077.514    |
| 57.5 | 7865.842     | 10427.214    | 12988.591    | 13999.473    | 15010.357    | 16021.242    | 17032.127    | 16545.977    | 14837.470    | 13128.948    |
| 60.0 | 6824.282     | 8948.070     | 11071.861    | 12532.876    | 13993.895    | 15454.914    | 16915.933    | 16715.155    | 14818.569    | 12921.968    |
| 62.5 | 5653.051     | 7299.050     | 8945.052     | 10897.100    | 12849.153    | 14801.207    | 16753.260    | 16869.459    | 14800.599    | 12731.719    |
| 65.0 | 4321.008     | 5465.980     | 6610.954     | 9131.651     | 11652.356    | 14173.061    | 16693.766    | 17082.325    | 14882.709    | 12683.073    |
| 67.5 | 3102.834     | 3845.544     | 4588.255     | 7779.155     | 10970.065    | 14160.975    | 17351.885    | 17898.468    | 15442.299    | 12986.105    |
| 70.0 | 2161.201     | 2647.820     | 3134.440     | 6307.214     | 9479.998     | 12652.782    | 15825.565    | 16270.828    | 13966.174    | 11661.497    |
| 72.5 | 1371.549     | 1639.027     | 1906.505     | 4090.474     | 6274.450     | 8458.426     | 10642.402    | 10902.682    | 9510.223     | 8117.749     |
| 75.0 | 770.131      | 876.797      | 983.463      | 1669.236     | 2355.011     | 3040.786     | 3726.561     | 3710.760     | 3198.580     | 2686.396     |
| 77.5 | 429.916      | 474.767      | 519.618      | 587.010      | 654.402      | 721.795      | 789.187      | 814.285      | 723.190      | 632.093      |
| 80.0 | 244.007      | 264.689      | 285.372      | 304.892      | 324.413      | 343.933      | 363.454      | 371.820      | 337.427      | 303.033      |
| 82.5 | 126.419      | 135.714      | 145.010      | 155.700      | 166.389      | 177.079      | 187.769      | 181.262      | 170.417      | 159.573      |
| 85.0 | 48.802       | 50.428       | 52.055       | 56.703       | 61.350       | 65.998       | 70.646       | 68.787       | 63.829       | 58.872       |
| 87.5 | 6.507        | 6.971        | 7.436        | 7.669        | 7.901        | 8.134        | 8.366        | 8.366        | 7.127        | 5.887        |
| 90.0 | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| 92.5 | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| 95.0 | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : VA1-L160-750-T2-L-S-XXX-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 97.5  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 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>175.0</u> | <u>177.5</u> | <u>180.0</u> | <u>182.5</u> | <u>185.0</u> | <u>187.5</u> | <u>190.0</u> | <u>192.5</u> | <u>195.0</u> | <u>197.5</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0  | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     |
| 2.5  | 3988.696     | 3949.190     | 3909.684     | 3871.572     | 3833.461     | 3789.772     | 3746.084     | 3702.395     | 3658.706     | 3618.968     |
| 5.0  | 4086.298     | 3994.273     | 3902.248     | 3809.293     | 3716.338     | 3617.806     | 3519.274     | 3420.741     | 3322.209     | 3229.719     |
| 7.5  | 4192.267     | 4049.116     | 3905.966     | 3760.956     | 3615.946     | 3461.641     | 3307.336     | 3153.031     | 2998.726     | 2868.124     |
| 10.0 | 4306.602     | 4115.114     | 3923.627     | 3726.097     | 3528.569     | 3323.139     | 3117.708     | 2912.278     | 2706.847     | 2546.500     |
| 12.5 | 4436.738     | 4195.519     | 3954.302     | 3705.182     | 3456.064     | 3203.459     | 2950.854     | 2698.249     | 2445.644     | 2278.790     |
| 15.0 | 4591.044     | 4301.953     | 4012.864     | 3708.901     | 3404.939     | 3107.483     | 2810.028     | 2512.572     | 2215.116     | 2057.093     |
| 17.5 | 4775.094     | 4433.948     | 4092.805     | 3732.604     | 3372.405     | 3036.605     | 2700.806     | 2365.006     | 2029.206     | 1891.633     |
| 20.0 | 4996.327     | 4600.338     | 4204.351     | 3784.194     | 3364.039     | 2993.846     | 2623.653     | 2253.460     | 1883.267     | 1769.165     |
| 22.5 | 5251.953     | 4801.120     | 4350.290     | 3861.811     | 3373.334     | 2972.931     | 2572.528     | 2172.124     | 1771.721     | 1677.604     |
| 25.0 | 5542.902     | 5027.465     | 4512.032     | 3958.948     | 3405.868     | 2975.952     | 2546.035     | 2116.119     | 1686.202     | 1606.261     |
| 27.5 | 5845.005     | 5269.613     | 4694.224     | 4074.213     | 3454.205     | 2996.170     | 2538.134     | 2080.099     | 1622.063     | 1550.720     |
| 30.0 | 6158.264     | 5526.633     | 4895.006     | 4205.278     | 3515.555     | 3030.563     | 2545.571     | 2060.578     | 1575.586     | 1509.123     |
| 32.5 | 6454.790     | 5770.175     | 5085.564     | 4335.415     | 3585.271     | 3074.484     | 2563.697     | 2052.909     | 1542.122     | 1477.518     |
| 35.0 | 6701.120     | 5972.351     | 5243.587     | 4445.102     | 3646.622     | 3112.828     | 2579.035     | 2045.241     | 1511.447     | 1448.005     |
| 37.5 | 6904.692     | 6152.219     | 5399.751     | 4554.788     | 3709.831     | 3152.566     | 2595.302     | 2038.037     | 1480.772     | 1415.936     |
| 40.0 | 7164.965     | 6381.818     | 5598.675     | 4702.122     | 3805.574     | 3218.796     | 2632.019     | 2045.241     | 1458.463     | 1389.909     |
| 42.5 | 7396.423     | 6588.643     | 5780.867     | 4853.639     | 3926.416     | 3305.942     | 2685.468     | 2064.993     | 1444.519     | 1369.691     |

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : VA1-L160-750-T2-L-S-XXX-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |           |           |          |          |          |          |          |          |          |          |
|-------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 45.0  | 7654.838  | 6829.395  | 6003.958 | 5040.013 | 4076.073 | 3416.093 | 2756.114 | 2096.134 | 1436.154 | 1352.959 |
| 47.5  | 7993.194  | 7151.020  | 6308.851 | 5306.329 | 4303.813 | 3589.455 | 2875.096 | 2160.738 | 1446.379 | 1349.474 |
| 50.0  | 8954.348  | 8071.273  | 7188.204 | 6073.207 | 4958.216 | 4104.193 | 3250.169 | 2396.146 | 1542.122 | 1412.450 |
| 52.5  | 10509.483 | 9533.454  | 8557.430 | 7340.182 | 6122.941 | 5047.685 | 3972.429 | 2897.172 | 1821.916 | 1610.211 |
| 55.0  | 11666.772 | 10640.082 | 9613.398 | 8351.066 | 7088.742 | 5803.640 | 4518.539 | 3233.437 | 1948.335 | 1681.787 |
| 57.5  | 11420.442 | 10448.131 | 9475.825 | 8246.492 | 7017.167 | 5701.623 | 4386.078 | 3070.534 | 1754.989 | 1512.377 |
| 60.0  | 11025.383 | 10076.311 | 9127.244 | 7891.869 | 6656.502 | 5351.647 | 4046.793 | 2741.938 | 1437.083 | 1250.941 |
| 62.5  | 10662.859 | 9717.040  | 8771.226 | 7582.794 | 6394.369 | 5095.324 | 3796.279 | 2497.234 | 1198.189 | 1051.320 |
| 65.0  | 10483.456 | 9517.652  | 8551.853 | 7410.363 | 6268.880 | 4956.821 | 3644.763 | 2332.704 | 1020.645 | 899.804  |
| 67.5  | 10529.934 | 9416.331  | 8302.734 | 7193.314 | 6083.900 | 4772.538 | 3461.177 | 2149.815 | 838.453  | 747.125  |
| 70.0  | 9356.842  | 8044.780  | 6732.725 | 5912.860 | 5093.000 | 3981.492 | 2869.983 | 1758.475 | 646.966  | 590.031  |
| 72.5  | 6725.289  | 5506.646  | 4288.011 | 3776.292 | 3264.577 | 2560.676 | 1856.775 | 1152.873 | 448.972  | 428.057  |
| 75.0  | 2174.216  | 1872.576  | 1570.938 | 1496.109 | 1421.281 | 1144.740 | 868.199  | 591.658  | 315.117  | 312.561  |
| 77.5  | 540.998   | 478.718   | 416.438  | 375.538  | 334.638  | 303.266  | 271.894  | 240.521  | 209.149  | 215.423  |
| 80.0  | 268.640   | 243.077   | 217.515  | 198.924  | 180.333  | 170.108  | 159.883  | 149.657  | 139.432  | 145.242  |
| 82.5  | 148.728   | 136.644   | 124.560  | 112.011  | 99.462   | 94.814   | 90.167   | 85.519   | 80.871   | 86.448   |
| 85.0  | 53.914    | 51.126    | 48.337   | 44.154   | 39.971   | 38.344   | 36.718   | 35.091   | 33.464   | 37.415   |
| 87.5  | 4.648     | 4.648     | 4.648    | 3.719    | 2.789    | 2.557    | 2.324    | 2.092    | 1.859    | 3.253    |
| 90.0  | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 92.5  | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 95.0  | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 97.5  | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 100.0 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 102.5 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 105.0 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 107.5 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 110.0 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 112.5 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 115.0 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 117.5 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 120.0 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 122.5 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 125.0 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 127.5 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 130.0 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 132.5 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 135.0 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 137.5 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 140.0 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 142.5 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 145.0 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 147.5 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 150.0 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 152.5 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 155.0 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 157.5 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 160.0 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 162.5 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 165.0 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 167.5 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 170.0 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 172.5 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 175.0 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 177.5 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 180.0 | 0.000     | 0.000     | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : VA1-L160-750-T2-L-S-XXX-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

| <b>Vert.<br/>Angles</b> | <b>Horizontal Angles</b> |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|-------------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                         | <b><u>200.0</u></b>      | <b><u>202.5</u></b> | <b><u>205.0</u></b> | <b><u>207.5</u></b> | <b><u>210.0</u></b> | <b><u>212.5</u></b> | <b><u>215.0</u></b> | <b><u>217.5</u></b> | <b><u>220.0</u></b> | <b><u>222.5</u></b> |
| <b>0.0</b>              | 3888.304                 | 3888.304            | 3888.304            | 3888.304            | 3888.304            | 3888.304            | 3888.304            | 3888.304            | 3888.304            | 3888.304            |
| <b>2.5</b>              | 3579.230                 | 3539.491            | 3499.753            | 3456.994            | 3414.235            | 3371.475            | 3328.716            | 3307.569            | 3286.422            | 3265.274            |
| <b>5.0</b>              | 3137.229                 | 3044.738            | 2952.248            | 2866.033            | 2779.817            | 2693.602            | 2607.386            | 2547.430            | 2487.474            | 2427.518            |
| <b>7.5</b>              | 2737.523                 | 2606.921            | 2476.319            | 2362.217            | 2248.115            | 2134.012            | 2019.910            | 1957.398            | 1894.886            | 1832.374            |
| <b>10.0</b>             | 2386.153                 | 2225.805            | 2065.458            | 1964.370            | 1863.281            | 1762.193            | 1661.104            | 1619.275            | 1577.445            | 1535.616            |
| <b>12.5</b>             | 2111.936                 | 1945.082            | 1778.228            | 1704.794            | 1631.359            | 1557.925            | 1484.490            | 1461.949            | 1439.407            | 1416.866            |
| <b>15.0</b>             | 1899.069                 | 1741.046            | 1583.022            | 1537.707            | 1492.391            | 1447.076            | 1401.760            | 1385.958            | 1370.156            | 1354.353            |
| <b>17.5</b>             | 1754.060                 | 1616.486            | 1478.913            | 1447.773            | 1416.633            | 1385.493            | 1354.353            | 1340.875            | 1327.396            | 1313.918            |
| <b>20.0</b>             | 1655.063                 | 1540.960            | 1426.858            | 1401.063            | 1375.268            | 1349.473            | 1323.678            | 1311.594            | 1299.510            | 1287.426            |
| <b>22.5</b>             | 1583.487                 | 1489.370            | 1395.253            | 1371.317            | 1347.382            | 1323.446            | 1299.510            | 1289.285            | 1279.060            | 1268.835            |
| <b>25.0</b>             | 1526.320                 | 1446.378            | 1366.437            | 1344.128            | 1321.819            | 1299.510            | 1277.201            | 1268.370            | 1259.540            | 1250.709            |
| <b>27.5</b>             | 1479.378                 | 1408.035            | 1336.692            | 1315.312            | 1293.933            | 1272.553            | 1251.173            | 1243.969            | 1236.765            | 1229.561            |
| <b>30.0</b>             | 1442.661                 | 1376.198            | 1309.735            | 1288.588            | 1267.441            | 1246.293            | 1225.146            | 1218.174            | 1211.203            | 1204.231            |
| <b>32.5</b>             | 1412.915                 | 1348.311            | 1283.707            | 1261.863            | 1240.019            | 1218.174            | 1196.330            | 1189.126            | 1181.922            | 1174.718            |
| <b>35.0</b>             | 1384.564                 | 1321.122            | 1257.680            | 1234.441            | 1211.203            | 1187.964            | 1164.725            | 1157.289            | 1149.853            | 1142.416            |
| <b>37.5</b>             | 1351.100                 | 1286.264            | 1221.428            | 1199.351            | 1177.274            | 1155.197            | 1133.120            | 1116.388            | 1099.657            | 1082.925            |
| <b>40.0</b>             | 1321.355                 | 1252.800            | 1184.246            | 1158.916            | 1133.586            | 1108.255            | 1082.925            | 1057.595            | 1032.265            | 1006.934            |
| <b>42.5</b>             | 1294.862                 | 1220.034            | 1145.205            | 1111.741            | 1078.278            | 1044.814            | 1011.350            | 988.808             | 966.267             | 943.725             |
| <b>45.0</b>             | 1269.765                 | 1186.570            | 1103.375            | 1064.799            | 1026.223            | 987.646             | 949.070             | 918.163             | 887.255             | 856.348             |
| <b>47.5</b>             | 1252.568                 | 1155.663            | 1058.757            | 1021.343            | 983.928             | 946.514             | 909.099             | 879.586             | 850.073             | 820.559             |
| <b>50.0</b>             | 1282.778                 | 1153.106            | 1023.434            | 986.949             | 950.464             | 913.979             | 877.494             | 854.720             | 831.947             | 809.173             |
| <b>52.5</b>             | 1398.507                 | 1186.802            | 975.097             | 930.246             | 885.396             | 840.545             | 795.694             | 796.159             | 796.624             | 797.088             |
| <b>55.0</b>             | 1415.239                 | 1148.690            | 882.142             | 840.080             | 798.018             | 755.956             | 713.894             | 710.873             | 707.852             | 704.831             |
| <b>57.5</b>             | 1269.765                 | 1027.152            | 784.540             | 752.471             | 720.401             | 688.332             | 656.262             | 654.403             | 652.544             | 650.684             |
| <b>60.0</b>             | 1064.799                 | 878.656             | 692.514             | 670.902             | 649.290             | 627.678             | 606.066             | 607.460             | 608.855             | 610.249             |
| <b>62.5</b>             | 904.452                  | 757.583             | 610.714             | 599.559             | 588.405             | 577.250             | 566.095             | 569.349             | 572.602             | 575.856             |
| <b>65.0</b>             | 778.962                  | 658.121             | 537.279             | 532.864             | 528.449             | 524.033             | 519.618             | 526.125             | 532.632             | 539.138             |
| <b>67.5</b>             | 655.797                  | 564.469             | 473.141             | 471.979             | 470.817             | 469.655             | 468.493             | 478.718             | 488.943             | 499.168             |
| <b>70.0</b>             | 533.097                  | 476.162             | 419.227             | 419.227             | 419.227             | 419.227             | 419.227             | 430.846             | 442.466             | 454.085             |
| <b>72.5</b>             | 407.143                  | 386.228             | 365.313             | 368.102             | 370.890             | 373.679             | 376.467             | 386.460             | 396.453             | 406.445             |
| <b>75.0</b>             | 310.005                  | 307.448             | 304.892             | 311.399             | 317.906             | 324.413             | 330.920             | 339.518             | 348.117             | 356.715             |
| <b>77.5</b>             | 221.698                  | 227.972             | 234.246             | 243.542             | 252.837             | 262.133             | 271.428             | 279.097             | 286.766             | 294.434             |
| <b>80.0</b>             | 151.052                  | 156.861             | 162.671             | 172.896             | 183.121             | 193.346             | 203.571             | 210.078             | 216.585             | 223.092             |
| <b>82.5</b>             | 92.026                   | 97.603              | 103.180             | 111.778             | 120.377             | 128.975             | 137.573             | 140.362             | 143.151             | 145.939             |
| <b>85.0</b>             | 41.365                   | 45.316              | 49.266              | 51.822              | 54.379              | 56.935              | 59.491              | 61.583              | 63.674              | 65.766              |
| <b>87.5</b>             | 4.648                    | 6.042               | 7.436               | 8.366               | 9.296               | 10.225              | 11.155              | 11.387              | 11.620              | 11.852              |
| <b>90.0</b>             | 0.000                    | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               |
| <b>92.5</b>             | 0.000                    | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               |
| <b>95.0</b>             | 0.000                    | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               |
| <b>97.5</b>             | 0.000                    | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               |
| <b>100.0</b>            | 0.000                    | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               |
| <b>102.5</b>            | 0.000                    | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               |
| <b>105.0</b>            | 0.000                    | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               |
| <b>107.5</b>            | 0.000                    | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               |
| <b>110.0</b>            | 0.000                    | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               |
| <b>112.5</b>            | 0.000                    | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               |
| <b>115.0</b>            | 0.000                    | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               |
| <b>117.5</b>            | 0.000                    | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               |
| <b>120.0</b>            | 0.000                    | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               |
| <b>122.5</b>            | 0.000                    | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               |
| <b>125.0</b>            | 0.000                    | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               |
| <b>127.5</b>            | 0.000                    | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               |
| <b>130.0</b>            | 0.000                    | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               | 0.000               |

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : VA1-L160-750-T2-L-S-XXX-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 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>225.0</u> | <u>227.5</u> | <u>230.0</u> | <u>232.5</u> | <u>235.0</u> | <u>237.5</u> | <u>240.0</u> | <u>242.5</u> | <u>245.0</u> | <u>247.5</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0  | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     |
| 2.5  | 3244.127     | 3214.381     | 3184.636     | 3154.890     | 3125.144     | 3093.540     | 3061.935     | 3030.331     | 2998.726     | 2998.029     |
| 5.0  | 2367.562     | 2314.810     | 2262.058     | 2209.306     | 2156.554     | 2115.654     | 2074.754     | 2033.854     | 1992.954     | 1979.940     |
| 7.5  | 1769.862     | 1728.729     | 1687.597     | 1646.464     | 1605.331     | 1581.628     | 1557.924     | 1534.221     | 1510.517     | 1502.616     |
| 10.0 | 1493.786     | 1475.195     | 1456.604     | 1438.013     | 1419.422     | 1409.429     | 1399.437     | 1389.444     | 1379.451     | 1374.571     |
| 12.5 | 1394.324     | 1382.705     | 1371.085     | 1359.466     | 1347.846     | 1340.642     | 1333.438     | 1326.234     | 1319.030     | 1315.544     |
| 15.0 | 1338.551     | 1329.720     | 1320.890     | 1312.059     | 1303.228     | 1297.651     | 1292.074     | 1286.496     | 1280.919     | 1277.898     |
| 17.5 | 1300.439     | 1294.165     | 1287.891     | 1281.616     | 1275.342     | 1270.694     | 1266.047     | 1261.399     | 1256.751     | 1253.265     |
| 20.0 | 1275.342     | 1270.694     | 1266.047     | 1261.399     | 1256.751     | 1253.498     | 1250.244     | 1246.991     | 1243.737     | 1238.857     |
| 22.5 | 1258.610     | 1254.892     | 1251.174     | 1247.455     | 1243.737     | 1241.878     | 1240.019     | 1238.159     | 1236.300     | 1230.723     |
| 25.0 | 1241.878     | 1239.322     | 1236.766     | 1234.209     | 1231.653     | 1230.724     | 1229.794     | 1228.865     | 1227.935     | 1218.175     |
| 27.5 | 1222.357     | 1220.963     | 1219.569     | 1218.174     | 1216.780     | 1213.062     | 1209.344     | 1205.625     | 1201.907     | 1191.217     |
| 30.0 | 1197.259     | 1196.097     | 1194.936     | 1193.774     | 1192.612     | 1187.267     | 1181.922     | 1176.577     | 1171.232     | 1161.472     |
| 32.5 | 1167.514     | 1164.958     | 1162.402     | 1159.845     | 1157.289     | 1148.226     | 1139.163     | 1130.099     | 1121.036     | 1098.262     |
| 35.0 | 1134.980     | 1123.825     | 1112.671     | 1101.516     | 1090.361     | 1071.073     | 1051.785     | 1032.497     | 1013.209     | 996.245      |
| 37.5 | 1066.193     | 1048.532     | 1030.870     | 1013.209     | 995.547      | 979.745      | 963.943      | 948.140      | 932.338      | 926.528      |
| 40.0 | 981.604      | 960.457      | 939.310      | 918.162      | 897.015      | 896.550      | 896.086      | 895.621      | 895.156      | 890.276      |
| 42.5 | 921.183      | 902.592      | 884.001      | 865.410      | 846.819      | 850.073      | 853.326      | 856.580      | 859.833      | 861.925      |
| 45.0 | 825.440      | 821.257      | 817.074      | 812.891      | 808.708      | 815.447      | 822.187      | 828.926      | 835.665      | 839.151      |
| 47.5 | 791.046      | 788.258      | 785.469      | 782.681      | 779.892      | 787.096      | 794.300      | 801.504      | 808.708      | 813.821      |
| 50.0 | 786.399      | 778.498      | 770.597      | 762.695      | 754.794      | 763.160      | 771.526      | 779.892      | 788.258      | 796.392      |
| 52.5 | 797.553      | 778.497      | 759.442      | 740.386      | 721.330      | 735.971      | 750.611      | 765.252      | 779.892      | 791.976      |
| 55.0 | 701.810      | 700.880      | 699.951      | 699.021      | 698.091      | 719.471      | 740.851      | 762.230      | 783.610      | 798.018      |
| 57.5 | 648.825      | 657.656      | 666.487      | 675.317      | 684.148      | 709.943      | 735.738      | 761.533      | 787.328      | 799.412      |
| 60.0 | 611.643      | 627.446      | 643.248      | 659.051      | 674.853      | 698.789      | 722.725      | 746.660      | 770.596      | 778.033      |
| 62.5 | 579.109      | 598.165      | 617.221      | 636.276      | 655.332      | 673.226      | 691.120      | 709.013      | 726.907      | 731.787      |
| 65.0 | 545.645      | 564.004      | 582.363      | 600.721      | 619.080      | 631.164      | 643.248      | 655.332      | 667.416      | 684.148      |
| 67.5 | 509.393      | 524.498      | 539.604      | 554.709      | 569.814      | 582.131      | 594.447      | 606.764      | 619.080      | 708.317      |
| 70.0 | 465.704      | 477.324      | 488.943      | 500.563      | 512.182      | 568.420      | 624.658      | 680.895      | 737.133      | 867.502      |
| 72.5 | 416.438      | 424.804      | 433.170      | 441.536      | 449.902      | 581.898      | 713.894      | 845.890      | 977.886      | 1092.221     |
| 75.0 | 365.313      | 372.982      | 380.651      | 388.319      | 395.988      | 576.785      | 757.583      | 938.380      | 1119.177     | 1167.281     |
| 77.5 | 302.103      | 314.885      | 327.666      | 340.448      | 353.229      | 522.407      | 691.585      | 860.763      | 1029.941     | 1011.815     |

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : VA1-L160-750-T2-L-S-XXX-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |         |         |         |         |         |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 80.0  | 229.599 | 240.289 | 250.979 | 261.668 | 272.358 | 375.538 | 478.718 | 581.898 | 685.078 | 667.417 |
| 82.5  | 148.728 | 154.770 | 160.812 | 166.854 | 172.896 | 228.204 | 283.513 | 338.821 | 394.129 | 386.925 |
| 85.0  | 67.857  | 69.484  | 71.111  | 72.737  | 74.364  | 100.391 | 126.419 | 152.446 | 178.473 | 173.361 |
| 87.5  | 12.084  | 12.781  | 13.479  | 14.176  | 14.873  | 21.380  | 27.887  | 34.393  | 40.900  | 35.555  |
| 90.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 92.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 95.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 97.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 100.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 102.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 105.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 107.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 110.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 112.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 115.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 117.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 120.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 122.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 125.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 127.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 130.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 132.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 135.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 137.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 140.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 142.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 145.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 147.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 150.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 152.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 155.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 157.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 160.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 162.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 165.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 167.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 170.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 172.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 175.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 177.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 180.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |

**Vert. Horizontal Angles**  
**Angles**

|      | <u>250.0</u> | <u>252.5</u> | <u>255.0</u> | <u>257.5</u> | <u>260.0</u> | <u>262.5</u> | <u>265.0</u> | <u>267.5</u> | <u>270.0</u> | <u>272.5</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0  | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     |
| 2.5  | 2997.332     | 2996.634     | 2995.937     | 2965.262     | 2934.587     | 2903.912     | 2873.237     | 2900.658     | 2928.080     | 2900.659     |
| 5.0  | 1966.927     | 1953.913     | 1940.899     | 1916.266     | 1891.633     | 1867.000     | 1842.367     | 1857.239     | 1872.112     | 1857.240     |
| 7.5  | 1494.715     | 1486.814     | 1478.913     | 1471.012     | 1463.111     | 1455.209     | 1447.308     | 1450.096     | 1452.885     | 1450.097     |
| 10.0 | 1369.691     | 1364.811     | 1359.931     | 1356.213     | 1352.495     | 1348.776     | 1345.058     | 1345.523     | 1345.987     | 1345.523     |
| 12.5 | 1312.059     | 1308.573     | 1305.087     | 1302.531     | 1299.975     | 1297.418     | 1294.862     | 1294.862     | 1294.862     | 1294.862     |
| 15.0 | 1274.877     | 1271.856     | 1268.835     | 1267.208     | 1265.582     | 1263.955     | 1262.328     | 1262.793     | 1263.257     | 1262.793     |
| 17.5 | 1249.779     | 1246.293     | 1242.807     | 1241.180     | 1239.554     | 1237.927     | 1236.300     | 1236.765     | 1237.230     | 1236.765     |
| 20.0 | 1233.977     | 1229.096     | 1224.216     | 1221.660     | 1219.104     | 1216.547     | 1213.991     | 1213.991     | 1213.991     | 1213.991     |
| 22.5 | 1225.146     | 1219.568     | 1213.991     | 1210.041     | 1206.090     | 1202.140     | 1198.189     | 1198.189     | 1198.189     | 1198.189     |
| 25.0 | 1208.414     | 1198.654     | 1188.893     | 1182.619     | 1176.345     | 1170.070     | 1163.796     | 1164.261     | 1164.725     | 1164.261     |



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : VA1-L160-750-T2-L-S-XXX-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 27.5  | 1180.528 | 1169.838 | 1159.148 | 1153.803 | 1148.458 | 1143.113 | 1137.768 | 1138.233 | 1138.698 | 1138.233 |
| 30.0  | 1151.712 | 1141.951 | 1132.191 | 1119.875 | 1107.558 | 1095.242 | 1082.925 | 1083.390 | 1083.854 | 1083.390 |
| 32.5  | 1075.489 | 1052.715 | 1029.941 | 1018.786 | 1007.632 | 996.477  | 985.322  | 983.928  | 982.534  | 983.928  |
| 35.0  | 979.281  | 962.316  | 945.352  | 940.239  | 935.127  | 930.014  | 924.901  | 925.831  | 926.761  | 925.831  |
| 37.5  | 920.719  | 914.909  | 909.099  | 906.078  | 903.057  | 900.036  | 897.015  | 899.339  | 901.663  | 899.339  |
| 40.0  | 885.396  | 880.515  | 875.635  | 871.917  | 868.199  | 864.481  | 860.763  | 864.481  | 868.199  | 864.481  |
| 42.5  | 864.016  | 866.107  | 868.199  | 860.763  | 853.326  | 845.890  | 838.453  | 837.989  | 837.524  | 837.989  |
| 45.0  | 842.637  | 846.122  | 849.608  | 845.193  | 840.778  | 836.362  | 831.947  | 821.257  | 810.567  | 821.257  |
| 47.5  | 818.933  | 824.045  | 829.158  | 822.884  | 816.609  | 810.335  | 804.060  | 804.060  | 804.060  | 804.060  |
| 50.0  | 804.525  | 812.658  | 820.792  | 816.144  | 811.497  | 806.849  | 802.201  | 808.708  | 815.215  | 808.708  |
| 52.5  | 804.060  | 816.144  | 828.228  | 827.299  | 826.369  | 825.440  | 824.510  | 831.946  | 839.383  | 831.947  |
| 55.0  | 812.426  | 826.834  | 841.242  | 842.869  | 844.496  | 846.122  | 847.749  | 854.256  | 860.763  | 854.256  |
| 57.5  | 811.497  | 823.581  | 835.665  | 837.989  | 840.313  | 842.636  | 844.960  | 850.537  | 856.115  | 850.538  |
| 60.0  | 785.469  | 792.905  | 800.342  | 803.595  | 806.849  | 810.102  | 813.356  | 819.398  | 825.440  | 819.398  |
| 62.5  | 736.668  | 741.548  | 746.428  | 752.238  | 758.048  | 763.857  | 769.667  | 777.568  | 785.469  | 777.568  |
| 65.0  | 700.880  | 717.612  | 734.344  | 760.371  | 786.399  | 812.426  | 838.453  | 857.973  | 877.494  | 857.974  |
| 67.5  | 797.554  | 886.790  | 976.027  | 996.477  | 1016.927 | 1037.377 | 1057.827 | 1076.883 | 1095.939 | 1076.883 |
| 70.0  | 997.872  | 1128.240 | 1258.610 | 1248.153 | 1237.695 | 1227.238 | 1216.780 | 1236.300 | 1255.821 | 1236.301 |
| 72.5  | 1206.555 | 1320.889 | 1435.224 | 1386.888 | 1338.551 | 1290.215 | 1241.878 | 1251.638 | 1261.398 | 1251.638 |
| 75.0  | 1215.386 | 1263.489 | 1311.594 | 1239.787 | 1167.979 | 1096.171 | 1024.363 | 1044.813 | 1065.263 | 1044.813 |
| 77.5  | 993.689  | 975.562  | 957.436  | 893.995  | 830.553  | 767.111  | 703.669  | 705.528  | 707.387  | 705.528  |
| 80.0  | 649.755  | 632.094  | 614.432  | 573.997  | 533.561  | 493.126  | 452.690  | 449.902  | 447.113  | 449.901  |
| 82.5  | 379.721  | 372.517  | 365.313  | 342.307  | 319.300  | 296.294  | 273.287  | 276.540  | 279.794  | 276.541  |
| 85.0  | 168.248  | 163.136  | 158.023  | 134.552  | 111.081  | 87.610   | 64.139   | 67.857   | 71.575   | 67.857   |
| 87.5  | 30.211   | 24.866   | 19.521   | 15.570   | 11.620   | 7.669    | 3.718    | 1.859    | 0.000    | 1.859    |
| 90.0  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 92.5  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 95.0  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 97.5  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 100.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 102.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 105.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 107.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 110.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 112.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 115.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 117.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 120.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 122.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 125.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 127.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 130.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 132.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 135.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 137.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 140.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 142.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 145.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 147.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 150.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 152.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 155.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 157.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 160.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 162.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 165.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : VA1-L160-750-T2-L-S-XXX-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 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>275.0</u> | <u>277.5</u> | <u>280.0</u> | <u>282.5</u> | <u>285.0</u> | <u>287.5</u> | <u>290.0</u> | <u>292.5</u> | <u>295.0</u> | <u>297.5</u> |
|-------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0   | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     |
| 2.5   | 2873.237     | 2903.912     | 2934.587     | 2965.262     | 2995.937     | 2996.634     | 2997.332     | 2998.029     | 2998.726     | 3030.331     |
| 5.0   | 1842.367     | 1867.000     | 1891.633     | 1916.266     | 1940.899     | 1953.913     | 1966.927     | 1979.940     | 1992.954     | 2033.854     |
| 7.5   | 1447.308     | 1455.209     | 1463.111     | 1471.012     | 1478.913     | 1486.814     | 1494.715     | 1502.616     | 1510.517     | 1534.221     |
| 10.0  | 1345.058     | 1348.776     | 1352.495     | 1356.213     | 1359.931     | 1364.811     | 1369.691     | 1374.571     | 1379.451     | 1389.444     |
| 12.5  | 1294.862     | 1297.418     | 1299.975     | 1302.531     | 1305.087     | 1308.573     | 1312.059     | 1315.544     | 1319.030     | 1326.234     |
| 15.0  | 1262.328     | 1263.955     | 1265.582     | 1267.208     | 1268.835     | 1271.856     | 1274.877     | 1277.898     | 1280.919     | 1286.496     |
| 17.5  | 1236.300     | 1237.927     | 1239.554     | 1241.180     | 1242.807     | 1246.293     | 1249.779     | 1253.265     | 1256.751     | 1261.399     |
| 20.0  | 1213.991     | 1216.547     | 1219.104     | 1221.660     | 1224.216     | 1229.096     | 1233.977     | 1238.857     | 1243.737     | 1246.991     |
| 22.5  | 1198.189     | 1202.140     | 1206.090     | 1210.041     | 1213.991     | 1219.568     | 1225.146     | 1230.723     | 1236.300     | 1238.159     |
| 25.0  | 1163.796     | 1170.070     | 1176.345     | 1182.619     | 1188.893     | 1198.654     | 1208.414     | 1218.175     | 1227.935     | 1228.865     |
| 27.5  | 1137.768     | 1143.113     | 1148.458     | 1153.803     | 1159.148     | 1169.838     | 1180.528     | 1191.217     | 1201.907     | 1205.625     |
| 30.0  | 1082.925     | 1095.242     | 1107.558     | 1119.875     | 1132.191     | 1141.951     | 1151.712     | 1161.472     | 1171.232     | 1176.577     |
| 32.5  | 985.322      | 996.477      | 1007.632     | 1018.786     | 1029.941     | 1052.715     | 1075.489     | 1098.262     | 1121.036     | 1130.099     |
| 35.0  | 924.901      | 930.014      | 935.127      | 940.239      | 945.352      | 962.316      | 979.281      | 996.245      | 1013.209     | 1032.497     |
| 37.5  | 897.015      | 900.036      | 903.057      | 906.078      | 909.099      | 914.909      | 920.719      | 926.528      | 932.338      | 948.140      |
| 40.0  | 860.763      | 864.481      | 868.199      | 871.917      | 875.635      | 880.515      | 885.396      | 890.276      | 895.156      | 895.621      |
| 42.5  | 838.453      | 845.890      | 853.326      | 860.763      | 868.199      | 866.107      | 864.016      | 861.924      | 859.833      | 856.579      |
| 45.0  | 831.947      | 836.362      | 840.778      | 845.193      | 849.608      | 846.122      | 842.637      | 839.151      | 835.665      | 828.926      |
| 47.5  | 804.060      | 810.335      | 816.609      | 822.884      | 829.158      | 824.045      | 818.933      | 813.820      | 808.708      | 801.504      |
| 50.0  | 802.201      | 806.849      | 811.497      | 816.144      | 820.792      | 812.658      | 804.525      | 796.391      | 788.258      | 779.892      |
| 52.5  | 824.510      | 825.440      | 826.369      | 827.299      | 828.228      | 816.144      | 804.060      | 791.976      | 779.892      | 765.251      |
| 55.0  | 847.749      | 846.122      | 844.496      | 842.869      | 841.242      | 826.834      | 812.426      | 798.018      | 783.610      | 762.230      |
| 57.5  | 844.960      | 842.636      | 840.313      | 837.989      | 835.665      | 823.581      | 811.497      | 799.412      | 787.328      | 761.533      |
| 60.0  | 813.356      | 810.102      | 806.849      | 803.595      | 800.342      | 792.905      | 785.469      | 778.032      | 770.596      | 746.660      |
| 62.5  | 769.667      | 763.857      | 758.048      | 752.238      | 746.428      | 741.548      | 736.668      | 731.787      | 726.907      | 709.013      |
| 65.0  | 838.453      | 812.426      | 786.399      | 760.371      | 734.344      | 717.612      | 700.880      | 684.148      | 667.416      | 655.332      |
| 67.5  | 1057.827     | 1037.377     | 1016.927     | 996.477      | 976.027      | 886.790      | 797.554      | 708.316      | 619.080      | 606.763      |
| 70.0  | 1216.780     | 1227.238     | 1237.695     | 1248.153     | 1258.610     | 1128.240     | 997.872      | 867.501      | 737.133      | 680.895      |
| 72.5  | 1241.878     | 1290.215     | 1338.551     | 1386.888     | 1435.224     | 1320.889     | 1206.555     | 1092.220     | 977.886      | 845.889      |
| 75.0  | 1024.363     | 1096.171     | 1167.979     | 1239.787     | 1311.594     | 1263.489     | 1215.386     | 1167.281     | 1119.177     | 938.379      |
| 77.5  | 703.669      | 767.111      | 830.553      | 893.995      | 957.436      | 975.562      | 993.689      | 1011.815     | 1029.941     | 860.762      |
| 80.0  | 452.690      | 493.126      | 533.561      | 573.997      | 614.432      | 632.094      | 649.755      | 667.417      | 685.078      | 581.897      |
| 82.5  | 273.287      | 296.294      | 319.300      | 342.307      | 365.313      | 372.517      | 379.721      | 386.925      | 394.129      | 338.820      |
| 85.0  | 64.139       | 87.610       | 111.081      | 134.552      | 158.023      | 163.136      | 168.248      | 173.361      | 178.473      | 152.446      |
| 87.5  | 3.718        | 7.669        | 11.620       | 15.570       | 19.521       | 24.866       | 30.211       | 35.555       | 40.900       | 34.393       |
| 90.0  | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| 92.5  | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| 95.0  | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| 97.5  | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| 100.0 | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| 102.5 | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| 105.0 | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| 107.5 | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| 110.0 | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| 112.5 | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : VA1-L160-750-T2-L-S-XXX-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 115.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

**Vert. Horizontal Angles**  
**Angles**

|      | <u>300.0</u> | <u>302.5</u> | <u>305.0</u> | <u>307.5</u> | <u>310.0</u> | <u>312.5</u> | <u>315.0</u> | <u>317.5</u> | <u>320.0</u> | <u>322.5</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0  | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     |
| 2.5  | 3061.935     | 3093.540     | 3125.144     | 3154.890     | 3184.636     | 3214.381     | 3244.127     | 3265.274     | 3286.422     | 3307.569     |
| 5.0  | 2074.754     | 2115.654     | 2156.554     | 2209.306     | 2262.058     | 2314.810     | 2367.562     | 2427.518     | 2487.474     | 2547.430     |
| 7.5  | 1557.924     | 1581.628     | 1605.331     | 1646.464     | 1687.597     | 1728.729     | 1769.862     | 1832.374     | 1894.886     | 1957.398     |
| 10.0 | 1399.437     | 1409.429     | 1419.422     | 1438.013     | 1456.604     | 1475.195     | 1493.786     | 1535.616     | 1577.445     | 1619.275     |
| 12.5 | 1333.438     | 1340.642     | 1347.846     | 1359.466     | 1371.085     | 1382.705     | 1394.324     | 1416.866     | 1439.407     | 1461.949     |
| 15.0 | 1292.074     | 1297.651     | 1303.228     | 1312.059     | 1320.890     | 1329.720     | 1338.551     | 1354.353     | 1370.156     | 1385.958     |
| 17.5 | 1266.047     | 1270.694     | 1275.342     | 1281.616     | 1287.891     | 1294.165     | 1300.439     | 1313.918     | 1327.396     | 1340.875     |
| 20.0 | 1250.244     | 1253.498     | 1256.751     | 1261.399     | 1266.047     | 1270.694     | 1275.342     | 1287.426     | 1299.510     | 1311.594     |
| 22.5 | 1240.019     | 1241.878     | 1243.737     | 1247.455     | 1251.174     | 1254.892     | 1258.610     | 1268.835     | 1279.060     | 1289.285     |
| 25.0 | 1229.794     | 1230.724     | 1231.653     | 1234.209     | 1236.766     | 1239.322     | 1241.878     | 1250.709     | 1259.540     | 1268.370     |
| 27.5 | 1209.344     | 1213.062     | 1216.780     | 1218.174     | 1219.569     | 1220.963     | 1222.357     | 1229.561     | 1236.765     | 1243.969     |
| 30.0 | 1181.922     | 1187.267     | 1192.612     | 1193.774     | 1194.936     | 1196.097     | 1197.259     | 1204.231     | 1211.203     | 1218.174     |
| 32.5 | 1139.163     | 1148.226     | 1157.289     | 1159.845     | 1162.402     | 1164.958     | 1167.514     | 1174.718     | 1181.922     | 1189.126     |
| 35.0 | 1051.785     | 1071.073     | 1090.361     | 1101.516     | 1112.671     | 1123.825     | 1134.980     | 1142.416     | 1149.853     | 1157.289     |
| 37.5 | 963.943      | 979.745      | 995.547      | 1013.209     | 1030.870     | 1048.532     | 1066.193     | 1082.925     | 1099.657     | 1116.388     |
| 40.0 | 896.086      | 896.550      | 897.015      | 918.162      | 939.310      | 960.457      | 981.604      | 1006.934     | 1032.265     | 1057.595     |
| 42.5 | 853.326      | 850.073      | 846.819      | 865.410      | 884.001      | 902.592      | 921.183      | 943.725      | 966.267      | 988.808      |
| 45.0 | 822.187      | 815.447      | 808.708      | 812.891      | 817.074      | 821.257      | 825.440      | 856.348      | 887.255      | 918.163      |
| 47.5 | 794.300      | 787.096      | 779.892      | 782.681      | 785.469      | 788.258      | 791.046      | 820.559      | 850.073      | 879.586      |
| 50.0 | 771.526      | 763.160      | 754.794      | 762.695      | 770.597      | 778.498      | 786.399      | 809.173      | 831.947      | 854.720      |
| 52.5 | 750.611      | 735.971      | 721.330      | 740.386      | 759.442      | 778.497      | 797.553      | 797.088      | 796.624      | 796.159      |
| 55.0 | 740.851      | 719.471      | 698.091      | 699.021      | 699.951      | 700.880      | 701.810      | 704.831      | 707.852      | 710.873      |
| 57.5 | 735.738      | 709.943      | 684.148      | 675.317      | 666.487      | 657.656      | 648.825      | 650.684      | 652.544      | 654.403      |
| 60.0 | 722.725      | 698.789      | 674.853      | 659.051      | 643.248      | 627.446      | 611.643      | 610.249      | 608.855      | 607.460      |

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : VA1-L160-750-T2-L-S-XXX-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |         |         |         |         |         |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 62.5  | 691.120 | 673.226 | 655.332 | 636.276 | 617.221 | 598.165 | 579.109 | 575.856 | 572.602 | 569.349 |
| 65.0  | 643.248 | 631.164 | 619.080 | 600.721 | 582.363 | 564.004 | 545.645 | 539.138 | 532.632 | 526.125 |
| 67.5  | 594.447 | 582.131 | 569.814 | 554.709 | 539.604 | 524.498 | 509.393 | 499.168 | 488.943 | 478.718 |
| 70.0  | 624.658 | 568.420 | 512.182 | 500.563 | 488.943 | 477.324 | 465.704 | 454.085 | 442.466 | 430.846 |
| 72.5  | 713.894 | 581.898 | 449.902 | 441.536 | 433.170 | 424.804 | 416.438 | 406.445 | 396.453 | 386.460 |
| 75.0  | 757.583 | 576.785 | 395.988 | 388.319 | 380.651 | 372.982 | 365.313 | 356.715 | 348.117 | 339.518 |
| 77.5  | 691.585 | 522.407 | 353.229 | 340.448 | 327.666 | 314.885 | 302.103 | 294.434 | 286.766 | 279.097 |
| 80.0  | 478.718 | 375.538 | 272.358 | 261.668 | 250.979 | 240.289 | 229.599 | 223.092 | 216.585 | 210.078 |
| 82.5  | 283.513 | 228.204 | 172.896 | 166.854 | 160.812 | 154.770 | 148.728 | 145.939 | 143.151 | 140.362 |
| 85.0  | 126.419 | 100.391 | 74.364  | 72.737  | 71.111  | 69.484  | 67.857  | 65.766  | 63.674  | 61.583  |
| 87.5  | 27.887  | 21.380  | 14.873  | 14.176  | 13.479  | 12.781  | 12.084  | 11.852  | 11.620  | 11.387  |
| 90.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 92.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 95.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 97.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 100.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 102.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 105.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 107.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 110.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 112.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 115.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 117.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 120.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 122.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 125.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 127.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 130.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 132.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 135.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 137.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 140.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 142.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 145.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 147.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 150.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 152.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 155.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 157.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 160.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 162.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 165.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 167.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 170.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 172.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 175.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 177.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 180.0 | 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>325.0</u> | <u>327.5</u> | <u>330.0</u> | <u>332.5</u> | <u>335.0</u> | <u>337.5</u> | <u>340.0</u> | <u>342.5</u> | <u>345.0</u> | <u>347.5</u> |
|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     |
| 2.5 | 3328.716     | 3371.475     | 3414.234     | 3456.994     | 3499.753     | 3539.491     | 3579.229     | 3618.968     | 3658.706     | 3702.395     |
| 5.0 | 2607.386     | 2693.602     | 2779.816     | 2866.033     | 2952.248     | 3044.738     | 3137.228     | 3229.719     | 3322.210     | 3420.741     |
| 7.5 | 2019.910     | 2134.012     | 2248.114     | 2362.217     | 2476.319     | 2606.921     | 2737.522     | 2868.124     | 2998.727     | 3153.031     |

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : VA1-L160-750-T2-L-S-XXX-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|       |          |          |          |          |          |          |          |          |          |          |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 10.0  | 1661.104 | 1762.193 | 1863.280 | 1964.370 | 2065.458 | 2225.805 | 2386.152 | 2546.500 | 2706.848 | 2912.278 |
| 12.5  | 1484.490 | 1557.925 | 1631.359 | 1704.794 | 1778.228 | 1945.082 | 2111.935 | 2278.790 | 2445.646 | 2698.249 |
| 15.0  | 1401.760 | 1447.076 | 1492.391 | 1537.707 | 1583.022 | 1741.046 | 1899.068 | 2057.093 | 2215.118 | 2512.572 |
| 17.5  | 1354.353 | 1385.493 | 1416.633 | 1447.773 | 1478.913 | 1616.486 | 1754.059 | 1891.633 | 2029.208 | 2365.006 |
| 20.0  | 1323.678 | 1349.473 | 1375.268 | 1401.063 | 1426.858 | 1540.960 | 1655.062 | 1769.165 | 1883.269 | 2253.460 |
| 22.5  | 1299.510 | 1323.446 | 1347.381 | 1371.317 | 1395.253 | 1489.370 | 1583.486 | 1677.604 | 1771.723 | 2172.124 |
| 25.0  | 1277.201 | 1299.510 | 1321.819 | 1344.128 | 1366.437 | 1446.378 | 1526.319 | 1606.261 | 1686.205 | 2116.119 |
| 27.5  | 1251.173 | 1272.553 | 1293.932 | 1315.312 | 1336.692 | 1408.035 | 1479.377 | 1550.720 | 1622.066 | 2080.099 |
| 30.0  | 1225.146 | 1246.293 | 1267.440 | 1288.588 | 1309.735 | 1376.198 | 1442.660 | 1509.123 | 1575.589 | 2060.578 |
| 32.5  | 1196.330 | 1218.174 | 1240.018 | 1261.863 | 1283.707 | 1348.311 | 1412.914 | 1477.518 | 1542.125 | 2052.909 |
| 35.0  | 1164.725 | 1187.964 | 1211.202 | 1234.441 | 1257.680 | 1321.122 | 1384.563 | 1448.005 | 1511.450 | 2045.241 |
| 37.5  | 1133.120 | 1155.197 | 1177.274 | 1199.351 | 1221.428 | 1286.264 | 1351.100 | 1415.936 | 1480.775 | 2038.037 |
| 40.0  | 1082.925 | 1108.255 | 1133.585 | 1158.916 | 1184.246 | 1252.800 | 1321.354 | 1389.909 | 1458.467 | 2045.241 |
| 42.5  | 1011.350 | 1044.814 | 1078.277 | 1111.741 | 1145.205 | 1220.034 | 1294.862 | 1369.691 | 1444.523 | 2064.993 |
| 45.0  | 949.070  | 987.646  | 1026.222 | 1064.799 | 1103.375 | 1186.570 | 1269.764 | 1352.959 | 1436.158 | 2096.134 |
| 47.5  | 909.099  | 946.514  | 983.928  | 1021.343 | 1058.757 | 1155.663 | 1252.567 | 1349.474 | 1446.383 | 2160.738 |
| 50.0  | 877.494  | 913.979  | 950.464  | 986.949  | 1023.434 | 1153.106 | 1282.777 | 1412.450 | 1542.127 | 2396.146 |
| 52.5  | 795.694  | 840.545  | 885.395  | 930.246  | 975.097  | 1186.802 | 1398.505 | 1610.211 | 1821.923 | 2897.172 |
| 55.0  | 713.894  | 755.956  | 798.018  | 840.080  | 882.142  | 1148.690 | 1415.237 | 1681.787 | 1948.343 | 3233.437 |
| 57.5  | 656.262  | 688.332  | 720.401  | 752.471  | 784.540  | 1027.152 | 1269.763 | 1512.377 | 1754.997 | 3070.534 |
| 60.0  | 606.066  | 627.678  | 649.290  | 670.902  | 692.514  | 878.656  | 1064.797 | 1250.941 | 1437.091 | 2741.938 |
| 62.5  | 566.095  | 577.250  | 588.404  | 599.559  | 610.714  | 757.583  | 904.451  | 1051.320 | 1198.197 | 2497.234 |
| 65.0  | 519.618  | 524.033  | 528.448  | 532.864  | 537.279  | 658.121  | 778.961  | 899.804  | 1020.653 | 2332.704 |
| 67.5  | 468.493  | 469.655  | 470.817  | 471.979  | 473.141  | 564.469  | 655.796  | 747.125  | 838.461  | 2149.815 |
| 70.0  | 419.227  | 419.227  | 419.227  | 419.227  | 419.227  | 476.162  | 533.096  | 590.031  | 646.973  | 1758.475 |
| 72.5  | 376.467  | 373.679  | 370.890  | 368.102  | 365.313  | 386.228  | 407.142  | 428.057  | 448.976  | 1152.873 |
| 75.0  | 330.920  | 324.413  | 317.906  | 311.399  | 304.892  | 307.448  | 310.004  | 312.561  | 315.119  | 591.658  |
| 77.5  | 271.428  | 262.133  | 252.837  | 243.542  | 234.246  | 227.972  | 221.698  | 215.423  | 209.149  | 240.521  |
| 80.0  | 203.571  | 193.346  | 183.121  | 172.896  | 162.671  | 156.861  | 151.052  | 145.242  | 139.432  | 149.657  |
| 82.5  | 137.573  | 128.975  | 120.377  | 111.778  | 103.180  | 97.603   | 92.026   | 86.448   | 80.871   | 85.519   |
| 85.0  | 59.491   | 56.935   | 54.379   | 51.822   | 49.266   | 45.316   | 41.365   | 37.415   | 33.464   | 35.091   |
| 87.5  | 11.155   | 10.225   | 9.296    | 8.366    | 7.436    | 6.042    | 4.648    | 3.253    | 1.859    | 2.092    |
| 90.0  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 92.5  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 95.0  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 97.5  | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 100.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 102.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 105.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 107.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 110.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 112.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 115.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 117.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 120.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 122.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 125.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 127.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 130.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 132.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 135.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 137.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 140.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 142.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 145.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 147.5 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |

# IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L160-750-T2-L-S-XXX-DIM-UNV\_.IES

## CANDELA TABULATION - (Cont.)

|       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

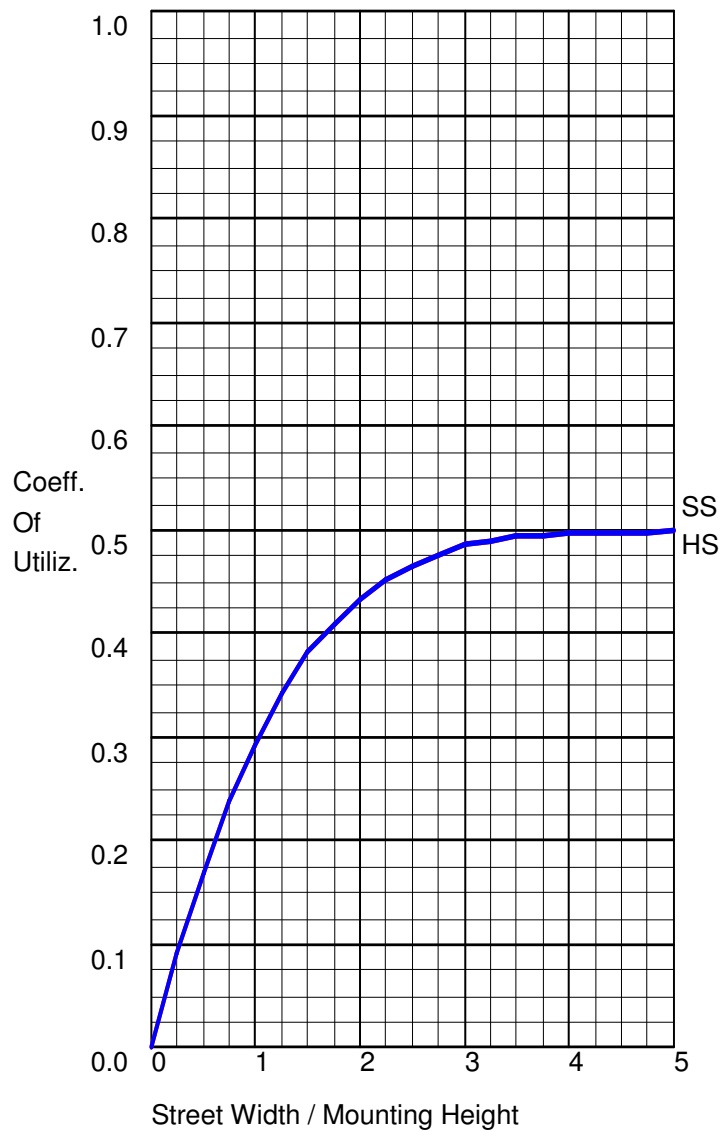
## Vert. Horizontal Angles

|      | <u>350.0</u> | <u>352.5</u> | <u>355.0</u> | <u>357.5</u> | <u>360.0</u> |
|------|--------------|--------------|--------------|--------------|--------------|
| 0.0  | 3888.304     | 3888.304     | 3888.304     | 3888.304     | 3888.304     |
| 2.5  | 3746.084     | 3789.772     | 3833.461     | 3871.573     | 3909.684     |
| 5.0  | 3519.274     | 3617.806     | 3716.338     | 3809.293     | 3902.248     |
| 7.5  | 3307.336     | 3461.641     | 3615.946     | 3760.956     | 3905.966     |
| 10.0 | 3117.708     | 3323.139     | 3528.569     | 3726.098     | 3923.627     |
| 12.5 | 2950.854     | 3203.459     | 3456.064     | 3705.183     | 3954.302     |
| 15.0 | 2810.028     | 3107.483     | 3404.939     | 3708.902     | 4012.864     |
| 17.5 | 2700.806     | 3036.605     | 3372.405     | 3732.605     | 4092.805     |
| 20.0 | 2623.653     | 2993.846     | 3364.039     | 3784.195     | 4204.351     |
| 22.5 | 2572.528     | 2972.931     | 3373.334     | 3861.812     | 4350.290     |
| 25.0 | 2546.035     | 2975.952     | 3405.868     | 3958.950     | 4512.032     |
| 27.5 | 2538.134     | 2996.170     | 3454.205     | 4074.215     | 4694.224     |
| 30.0 | 2545.571     | 3030.563     | 3515.555     | 4205.281     | 4895.006     |
| 32.5 | 2563.697     | 3074.484     | 3585.271     | 4335.418     | 5085.564     |
| 35.0 | 2579.035     | 3112.828     | 3646.622     | 4445.105     | 5243.587     |
| 37.5 | 2595.302     | 3152.566     | 3709.831     | 4554.791     | 5399.751     |
| 40.0 | 2632.019     | 3218.796     | 3805.574     | 4702.125     | 5598.675     |
| 42.5 | 2685.468     | 3305.942     | 3926.416     | 4853.642     | 5780.867     |
| 45.0 | 2756.114     | 3416.093     | 4076.073     | 5040.016     | 6003.958     |
| 47.5 | 2875.096     | 3589.455     | 4303.813     | 5306.332     | 6308.851     |
| 50.0 | 3250.169     | 4104.193     | 4958.216     | 6073.210     | 7188.204     |
| 52.5 | 3972.429     | 5047.685     | 6122.941     | 7340.186     | 8557.430     |
| 55.0 | 4518.539     | 5803.640     | 7088.742     | 8351.070     | 9613.398     |
| 57.5 | 4386.078     | 5701.623     | 7017.167     | 8246.496     | 9475.825     |
| 60.0 | 4046.793     | 5351.647     | 6656.502     | 7891.873     | 9127.244     |
| 62.5 | 3796.279     | 5095.324     | 6394.369     | 7582.798     | 8771.226     |
| 65.0 | 3644.763     | 4956.821     | 6268.880     | 7410.367     | 8551.853     |
| 67.5 | 3461.177     | 4772.538     | 6083.900     | 7193.317     | 8302.734     |
| 70.0 | 2869.983     | 3981.492     | 5093.000     | 5912.863     | 6732.725     |
| 72.5 | 1856.775     | 2560.676     | 3264.577     | 3776.294     | 4288.011     |
| 75.0 | 868.199      | 1144.740     | 1421.281     | 1496.110     | 1570.938     |
| 77.5 | 271.894      | 303.266      | 334.638      | 375.538      | 416.438      |
| 80.0 | 159.883      | 170.108      | 180.333      | 198.924      | 217.515      |
| 82.5 | 90.167       | 94.814       | 99.462       | 112.011      | 124.560      |
| 85.0 | 36.718       | 38.344       | 39.971       | 44.154       | 48.337       |
| 87.5 | 2.324        | 2.557        | 2.789        | 3.719        | 4.648        |
| 90.0 | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| 92.5 | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| 95.0 | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA1-L160-750-T2-L-S-XXX-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

|       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
| 97.5  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

COEFFICIENTS OF UTILIZATION

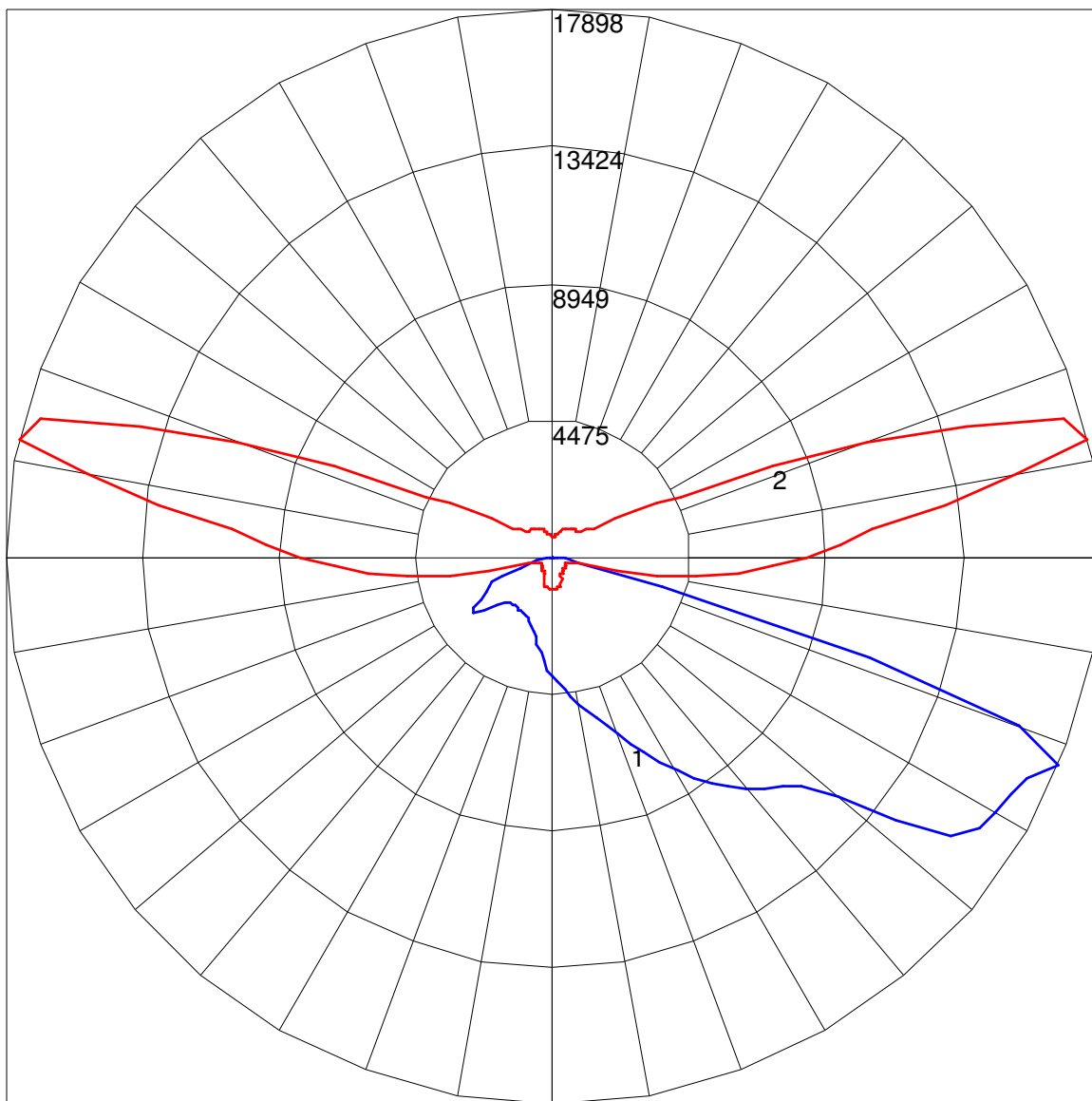


FLUX DISTRIBUTION

|                      | Lumens  | Percent<br>Of Luminaire |
|----------------------|---------|-------------------------|
| Downward Street Side | 8842.9  | 50.0                    |
| Downward House Side  | 8842.9  | 50.0                    |
| Downward Total       | 17685.8 | 100.0                   |
| Upward Street Side   | 0.0     | 0.0                     |
| Upward House Side    | 0.0     | 0.0                     |
| Upward Total         | 0.0     | 0.0                     |
| Total Flux           | 17685.8 | 100.0                   |

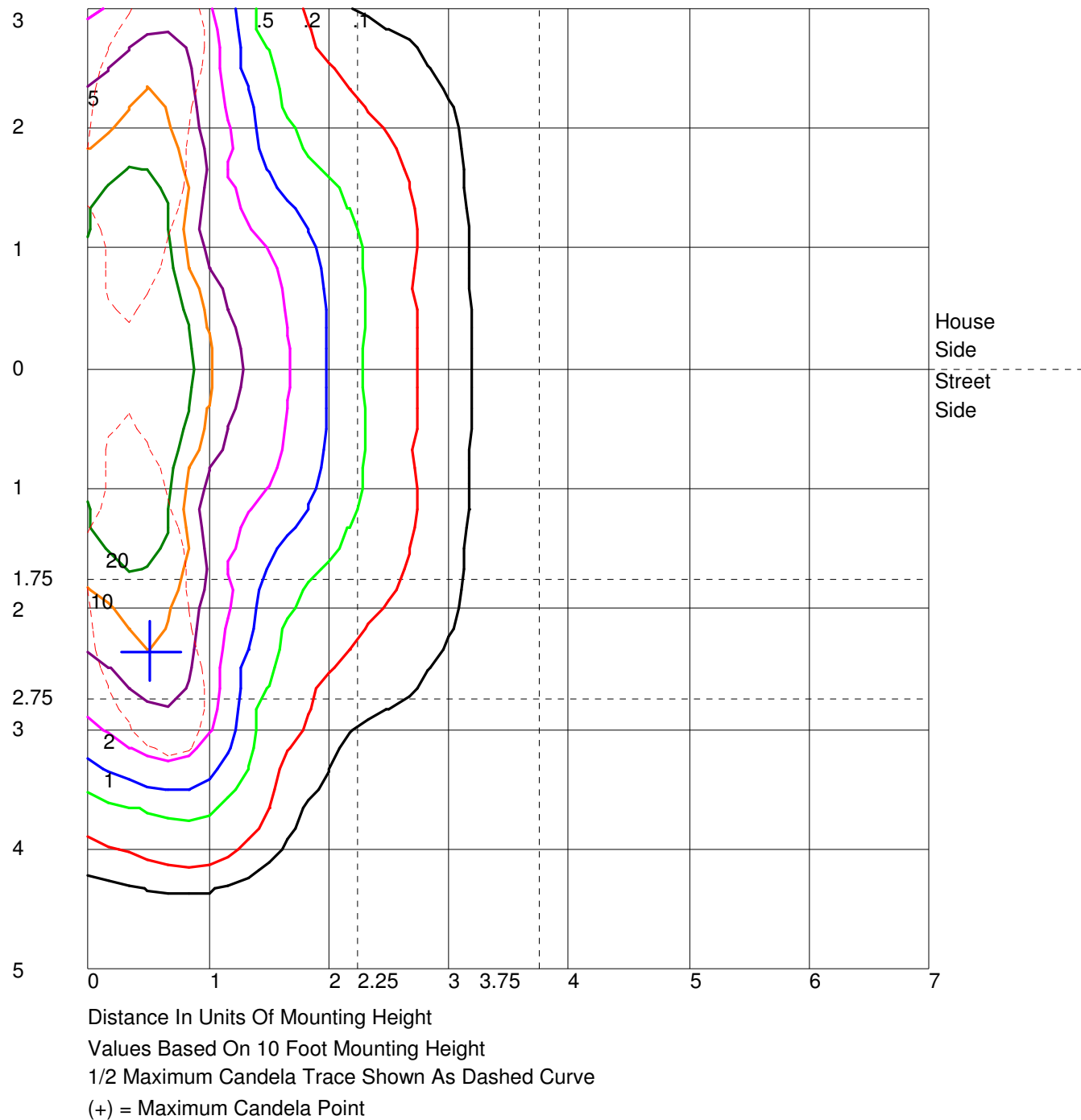


POLAR GRAPH

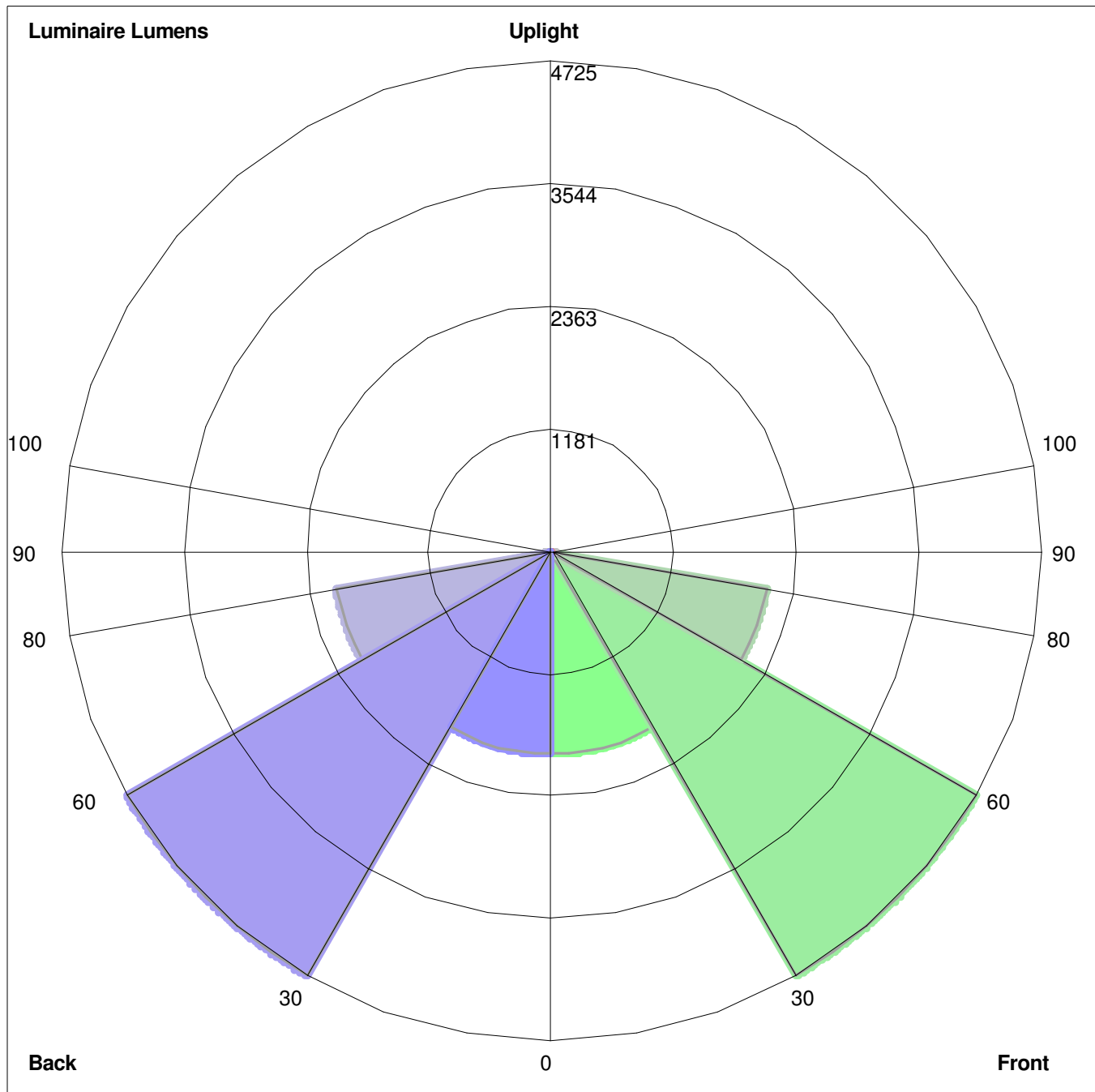


Maximum Candela = 17898.47 Located At Horizontal Angle = 12.5, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (12.5 - 192.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1956.4, Medium=4725.3, High=2107.4, Very High=53.8  
Back: Low=1956.4, Medium=4725.3, High=2107.4, Very High=53.8  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3