



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPX-L60-740-TFT-XXX-SDGL-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL009421  
[TESTLAB] ATAL-LABS  
[ISSUE DATE] 2024-02-01  
[TEST DATE] 07/14/15  
[MANUFAC] H.E. WILLIAMS, INC.  
[LUMCAT] VWPx-L60-740-TFT-xxx-SDGL-DIM-UNV  
[LUMINAIRE] CAST ALUMINUM LED WALL PACK  
[MORE] FORWARD THROW DISTRIBUTION WITH  
[MORE] MICRO-PRISMATIC GLASS LENS  
[LAMPCAT] X8-LUXEON M  
[LAMP] (8) LEDS  
[\_SEARCH\_SOURCETYPE] LED  
[\_SEARCH\_APPLICATION] Outdoor  
[\_SEARCH\_MOUNTING] Wall

### CHARACTERISTICS

|   |                                 |
|---|---------------------------------|
| IES Classification                              | Type IV                         |
| Longitudinal Classification                     | Short                           |
| Lumens Per Lamp                                 | N.A. (absolute)                 |
| Total Lamp Lumens                               | N.A. (absolute)                 |
| Luminaire Lumens                                | 6263                            |
| Downward Total Efficiency                       | N.A. (absolute)                 |
| Total Luminaire Efficiency                      | N.A. (absolute)                 |
| Luminaire Efficacy Rating (LER)                 | 128                             |
| Total Luminaire Watts                           | 49                              |
| Ballast Factor                                  | 1.00                            |
| Upward Waste Light Ratio                        | 0.00                            |
| Maximum Candela                                 | 1723.425                        |
| Maximum Candela Angle                           | 52.5H 57.5V                     |
| Maximum Candela (<90 Degrees Vertical)          | 1723.425                        |
| Maximum Candela Angle (<90 Degrees Vertical)    | 52.5H 57.5V                     |
| Maximum Candela At 90 Degrees Vertical          | 0 (0.0% Luminaire Lumens)       |
| Maximum Candela from 80 to <90 Degrees Vertical | 477.218 (7.6% Luminaire Lumens) |
| Cutoff Classification (deprecated)              | N.A. (absolute)                 |

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VWPX-L60-740-TFT-XXX-SDGL-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

|                               | Lumens   | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30)         | 435.9    | N.A.   | 7.0         |
| FM - Front-Medium (30-60)     | 1740.6   | N.A.   | 27.8        |
| FH - Front-High (60-80)       | 1105.7   | N.A.   | 17.7        |
| FVH - Front-Very High (80-90) | 84.6     | N.A.   | 1.4         |
| BL - Back-Low (0-30)          | 422.2    | N.A.   | 6.7         |
| BM - Back-Medium (30-60)      | 1649.5   | N.A.   | 26.3        |
| BH - Back-High (60-80)        | 806.7    | N.A.   | 12.9        |
| BVH - Back-Very High (80-90)  | 17.5     | 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                         | 6262.7   | N.A.   | 100.0       |
| BUG Rating                    | B2-U0-G2 |        |             |

**IES ROAD REPORT**  
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**CANDELA TABULATION**

| <b>Vert.<br/>Angles</b> | <b>Horizontal Angles</b> |                   |                    |                    |                    |                    |                    |                    |                    |                    |
|-------------------------|--------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                         | <u><b>0.0</b></u>        | <u><b>5.0</b></u> | <u><b>10.0</b></u> | <u><b>15.0</b></u> | <u><b>20.0</b></u> | <u><b>25.0</b></u> | <u><b>30.0</b></u> | <u><b>35.0</b></u> | <u><b>40.0</b></u> | <u><b>45.0</b></u> |
| <b>0.0</b>              | 944.546                  | 944.546           | 944.546            | 944.546            | 944.546            | 944.546            | 944.546            | 944.546            | 944.546            | 944.546            |
| <b>2.5</b>              | 964.327                  | 961.854           | 956.909            | 951.964            | 951.964            | 951.964            | 954.436            | 949.491            | 949.491            | 947.018            |
| <b>5.0</b>              | 949.491                  | 947.018           | 942.073            | 937.128            | 934.655            | 934.655            | 934.655            | 932.183            | 929.710            | 932.183            |
| <b>7.5</b>              | 974.217                  | 969.272           | 964.327            | 956.909            | 949.491            | 947.018            | 947.018            | 942.073            | 934.655            | 932.183            |
| <b>10.0</b>             | 959.382                  | 954.436           | 947.018            | 937.128            | 934.655            | 939.600            | 944.546            | 947.018            | 947.018            | 949.491            |
| <b>12.5</b>             | 974.217                  | 966.799           | 954.436            | 949.491            | 947.018            | 954.436            | 954.436            | 951.964            | 944.546            | 947.018            |
| <b>15.0</b>             | 976.690                  | 971.745           | 961.854            | 964.327            | 969.272            | 976.690            | 976.690            | 976.690            | 966.799            | 964.327            |
| <b>17.5</b>             | 1003.889                 | 998.944           | 986.581            | 989.053            | 989.053            | 993.998            | 996.471            | 998.944            | 993.998            | 998.944            |
| <b>20.0</b>             | 1028.615                 | 1018.725          | 1008.834           | 1011.307           | 1016.252           | 1018.725           | 1031.088           | 1031.088           | 1031.088           | 1033.561           |
| <b>22.5</b>             | 1065.705                 | 1058.287          | 1050.869           | 1050.869           | 1040.978           | 1048.396           | 1050.869           | 1063.232           | 1068.177           | 1065.705           |
| <b>25.0</b>             | 1102.794                 | 1095.376          | 1092.904           | 1090.431           | 1080.541           | 1085.486           | 1083.013           | 1090.431           | 1095.376           | 1100.322           |
| <b>27.5</b>             | 1162.137                 | 1157.192          | 1147.302           | 1137.411           | 1125.048           | 1120.103           | 1115.157           | 1132.466           | 1137.411           | 1127.521           |
| <b>30.0</b>             | 1211.590                 | 1206.645          | 1201.700           | 1191.809           | 1184.391           | 1167.083           | 1162.137           | 1169.555           | 1164.610           | 1167.083           |
| <b>32.5</b>             | 1270.933                 | 1273.406          | 1270.933           | 1256.098           | 1233.844           | 1221.481           | 1209.117           | 1211.590           | 1204.172           | 1199.227           |
| <b>35.0</b>             | 1345.112                 | 1345.112          | 1340.167           | 1325.331           | 1295.660           | 1283.296           | 1270.933           | 1258.570           | 1258.570           | 1248.680           |
| <b>37.5</b>             | 1421.764                 | 1411.873          | 1401.983           | 1392.092           | 1364.893           | 1347.585           | 1325.331           | 1325.331           | 1305.550           | 1303.078           |
| <b>40.0</b>             | 1490.998                 | 1486.052          | 1471.217           | 1468.744           | 1431.654           | 1419.291           | 1401.983           | 1389.620           | 1369.839           | 1367.366           |
| <b>42.5</b>             | 1537.978                 | 1540.450          | 1528.087           | 1537.978           | 1510.779           | 1503.361           | 1481.107           | 1461.326           | 1446.490           | 1429.182           |
| <b>45.0</b>             | 1589.903                 | 1597.321          | 1584.958           | 1597.321           | 1582.485           | 1584.958           | 1562.704           | 1540.450           | 1515.724           | 1513.251           |
| <b>47.5</b>             | 1639.356                 | 1646.774          | 1644.301           | 1649.246           | 1639.356           | 1641.828           | 1617.102           | 1609.684           | 1584.958           | 1587.430           |
| <b>50.0</b>             | 1651.719                 | 1664.082          | 1669.027           | 1666.555           | 1671.500           | 1671.500           | 1669.027           | 1654.191           | 1654.191           | 1636.883           |
| <b>52.5</b>             | 1629.465                 | 1644.301          | 1649.246           | 1654.191           | 1683.863           | 1683.863           | 1688.808           | 1678.918           | 1681.390           | 1681.390           |
| <b>55.0</b>             | 1597.321                 | 1609.684          | 1614.629           | 1631.938           | 1673.972           | 1673.972           | 1686.336           | 1696.226           | 1703.644           | 1711.062           |
| <b>57.5</b>             | 1535.505                 | 1547.868          | 1567.649           | 1602.266           | 1629.465           | 1639.356           | 1676.445           | 1688.808           | 1708.589           | 1711.062           |
| <b>60.0</b>             | 1468.744                 | 1478.634          | 1498.416           | 1535.505           | 1560.231           | 1597.321           | 1634.410           | 1664.082           | 1683.863           | 1693.754           |
| <b>62.5</b>             | 1367.366                 | 1389.620          | 1406.928           | 1441.545           | 1486.052           | 1523.142           | 1557.759           | 1592.376           | 1634.410           | 1644.301           |
| <b>65.0</b>             | 1258.570                 | 1275.879          | 1295.660           | 1335.222           | 1374.784           | 1414.346           | 1451.436           | 1488.525           | 1540.450           | 1560.231           |
| <b>67.5</b>             | 1132.466                 | 1137.411          | 1162.137           | 1196.754           | 1226.426           | 1263.515           | 1303.078           | 1347.585           | 1404.455           | 1426.709           |
| <b>70.0</b>             | 971.745                  | 971.745           | 993.998            | 1026.143           | 1048.396           | 1085.486           | 1127.521           | 1172.028           | 1221.481           | 1256.098           |
| <b>72.5</b>             | 791.243                  | 791.243           | 811.024            | 843.168            | 865.422            | 897.566            | 949.491            | 974.217            | 1023.670           | 1055.814           |
| <b>75.0</b>             | 613.213                  | 613.213           | 635.467            | 667.611            | 689.865            | 714.591            | 764.044            | 793.715            | 828.332            | 850.586            |
| <b>77.5</b>             | 452.492                  | 452.492           | 472.273            | 501.944            | 521.726            | 543.979            | 583.541            | 608.268            | 630.521            | 652.775            |
| <b>80.0</b>             | 311.552                  | 309.079           | 326.388            | 348.641            | 363.477            | 385.731            | 417.875            | 430.238            | 445.074            | 462.382            |
| <b>82.5</b>             | 190.393                  | 187.920           | 202.756            | 212.646            | 229.955            | 239.845            | 262.099            | 269.517            | 279.408            | 289.298            |
| <b>85.0</b>             | 91.487                   | 89.015            | 98.905             | 101.378            | 113.741            | 116.214            | 131.050            | 138.467            | 138.467            | 143.413            |
| <b>87.5</b>             | 24.726                   | 24.726            | 27.199             | 27.199             | 32.144             | 29.672             | 37.089             | 39.562             | 39.562             | 42.035             |
| <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>Vert.<br/>Angles</b> | <b>Horizontal Angles</b> |                    |                    |                    |                    |                    |                    |                    |                    |                    |
|-------------------------|--------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                         | <u><b>50.0</b></u>       | <u><b>52.5</b></u> | <u><b>55.0</b></u> | <u><b>60.0</b></u> | <u><b>65.0</b></u> | <u><b>70.0</b></u> | <u><b>75.0</b></u> | <u><b>80.0</b></u> | <u><b>85.0</b></u> | <u><b>90.0</b></u> |
| <b>0.0</b>              | 944.546                  | 944.546            | 944.546            | 944.546            | 944.546            | 944.546            | 944.546            | 944.546            | 944.546            | 944.546            |
| <b>2.5</b>              | 947.018                  | 947.018            | 949.491            | 951.964            | 951.964            | 949.491            | 947.018            | 944.546            | 944.546            | 942.073            |
| <b>5.0</b>              | 934.655                  | 937.128            | 939.600            | 944.546            | 949.491            | 949.491            | 949.491            | 947.018            | 942.073            | 937.128            |
| <b>7.5</b>              | 932.183                  | 932.183            | 932.183            | 934.655            | 942.073            | 947.018            | 949.491            | 949.491            | 947.018            | 942.073            |
| <b>10.0</b>             | 947.018                  | 942.073            | 939.600            | 932.183            | 929.710            | 934.655            | 942.073            | 944.546            | 942.073            | 934.655            |
| <b>12.5</b>             | 954.436                  | 954.436            | 954.436            | 944.546            | 934.655            | 937.128            | 939.600            | 949.491            | 949.491            | 944.546            |
| <b>15.0</b>             | 964.327                  | 966.799            | 969.272            | 979.163            | 971.745            | 966.799            | 959.382            | 966.799            | 964.327            | 954.436            |
| <b>17.5</b>             | 1001.416                 | 996.471            | 993.998            | 991.526            | 991.526            | 981.635            | 974.217            | 976.690            | 976.690            | 969.272            |
| <b>20.0</b>             | 1031.088                 | 1028.615           | 1023.670           | 1011.307           | 1003.889           | 1003.889           | 993.998            | 993.998            | 1001.416           | 996.471            |
| <b>22.5</b>             | 1058.287                 | 1050.869           | 1050.869           | 1048.396           | 1038.506           | 1038.506           | 1026.143           | 1021.197           | 1028.615           | 1026.143           |
| <b>25.0</b>             | 1092.904                 | 1090.431           | 1085.486           | 1085.486           | 1073.123           | 1068.177           | 1063.232           | 1055.814           | 1063.232           | 1065.705           |
| <b>27.5</b>             | 1129.993                 | 1127.521           | 1122.575           | 1112.685           | 1110.212           | 1105.267           | 1102.794           | 1107.740           | 1110.212           | 1110.212           |

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : VWPX-L60-740-TFT-XXX-SDGL-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

|      |          |          |          |          |          |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 30.0 | 1164.610 | 1159.665 | 1152.247 | 1152.247 | 1147.302 | 1152.247 | 1152.247 | 1164.610 | 1167.083 | 1167.083 |
| 32.5 | 1191.809 | 1189.336 | 1189.336 | 1199.227 | 1204.172 | 1194.282 | 1201.700 | 1211.590 | 1211.590 | 1216.535 |
| 35.0 | 1246.207 | 1243.734 | 1238.789 | 1248.680 | 1246.207 | 1256.098 | 1265.988 | 1273.406 | 1273.406 | 1290.714 |
| 37.5 | 1298.132 | 1298.132 | 1298.132 | 1305.550 | 1305.550 | 1325.331 | 1335.222 | 1332.749 | 1340.167 | 1347.585 |
| 40.0 | 1362.421 | 1364.893 | 1367.366 | 1372.311 | 1372.311 | 1392.092 | 1404.455 | 1406.928 | 1419.291 | 1421.764 |
| 42.5 | 1441.545 | 1444.018 | 1441.545 | 1446.490 | 1448.963 | 1473.689 | 1476.162 | 1481.107 | 1481.107 | 1483.580 |
| 45.0 | 1510.779 | 1513.251 | 1510.779 | 1513.251 | 1525.614 | 1542.923 | 1542.923 | 1537.978 | 1537.978 | 1535.505 |
| 47.5 | 1580.012 | 1577.540 | 1575.067 | 1582.485 | 1584.958 | 1592.376 | 1587.430 | 1584.958 | 1575.067 | 1577.540 |
| 50.0 | 1639.356 | 1636.883 | 1636.883 | 1639.356 | 1636.883 | 1644.301 | 1634.410 | 1617.102 | 1604.739 | 1607.211 |
| 52.5 | 1678.918 | 1681.390 | 1681.390 | 1671.500 | 1669.027 | 1664.082 | 1646.774 | 1634.410 | 1614.629 | 1609.684 |
| 55.0 | 1706.117 | 1713.535 | 1711.062 | 1696.226 | 1681.390 | 1669.027 | 1641.828 | 1629.465 | 1604.739 | 1597.321 |
| 57.5 | 1718.480 | 1723.425 | 1718.480 | 1693.754 | 1673.972 | 1654.191 | 1622.047 | 1592.376 | 1570.122 | 1557.759 |
| 60.0 | 1703.644 | 1703.644 | 1701.171 | 1664.082 | 1646.774 | 1619.575 | 1577.540 | 1547.868 | 1505.833 | 1498.416 |
| 62.5 | 1664.082 | 1661.609 | 1654.191 | 1631.938 | 1592.376 | 1567.649 | 1520.669 | 1481.107 | 1441.545 | 1431.654 |
| 65.0 | 1580.012 | 1580.012 | 1575.067 | 1560.231 | 1510.779 | 1483.580 | 1444.018 | 1397.038 | 1359.948 | 1337.694 |
| 67.5 | 1444.018 | 1448.963 | 1451.436 | 1429.182 | 1397.038 | 1362.421 | 1322.859 | 1278.351 | 1251.152 | 1223.953 |
| 70.0 | 1273.406 | 1278.351 | 1280.824 | 1263.515 | 1236.316 | 1216.535 | 1172.028 | 1132.466 | 1102.794 | 1073.123 |
| 72.5 | 1078.068 | 1080.541 | 1080.541 | 1068.177 | 1045.924 | 1028.615 | 993.998  | 954.436  | 922.292  | 895.093  |
| 75.0 | 865.422  | 865.422  | 875.312  | 860.476  | 850.586  | 823.387  | 803.606  | 751.680  | 719.536  | 694.810  |
| 77.5 | 657.720  | 670.084  | 670.084  | 652.775  | 642.885  | 623.103  | 600.850  | 556.342  | 529.143  | 519.253  |
| 80.0 | 464.855  | 477.218  | 464.855  | 459.910  | 452.492  | 432.711  | 417.875  | 385.731  | 365.950  | 361.004  |
| 82.5 | 291.771  | 301.661  | 294.243  | 289.298  | 291.771  | 271.990  | 264.572  | 242.318  | 232.427  | 229.955  |
| 85.0 | 145.885  | 153.303  | 155.776  | 145.885  | 150.831  | 138.467  | 138.467  | 126.104  | 121.159  | 121.159  |
| 87.5 | 42.035   | 46.980   | 49.453   | 44.507   | 49.453   | 44.507   | 46.980   | 42.035   | 44.507   | 44.507   |
| 90.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |

**Vert.  
Angles**

**Horizontal Angles**

|      | <u>95.0</u> | <u>100.0</u> | <u>105.0</u> | <u>110.0</u> | <u>115.0</u> | <u>120.0</u> | <u>125.0</u> | <u>130.0</u> | <u>135.0</u> | <u>140.0</u> |
|------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0  | 944.546     | 944.546      | 944.546      | 944.546      | 944.546      | 944.546      | 944.546      | 944.546      | 944.546      | 944.546      |
| 2.5  | 939.600     | 937.128      | 937.128      | 937.128      | 937.128      | 937.128      | 937.128      | 937.128      | 934.655      | 934.655      |
| 5.0  | 934.655     | 929.710      | 929.710      | 929.710      | 929.710      | 934.655      | 942.073      | 944.546      | 949.491      | 951.964      |
| 7.5  | 939.600     | 934.655      | 934.655      | 937.128      | 942.073      | 949.491      | 954.436      | 949.491      | 944.546      | 942.073      |
| 10.0 | 929.710     | 929.710      | 937.128      | 944.546      | 949.491      | 947.018      | 944.546      | 937.128      | 932.183      | 932.183      |
| 12.5 | 937.128     | 942.073      | 947.018      | 947.018      | 939.600      | 934.655      | 934.655      | 932.183      | 942.073      | 947.018      |
| 15.0 | 947.018     | 954.436      | 959.382      | 954.436      | 949.491      | 944.546      | 949.491      | 951.964      | 951.964      | 947.018      |
| 17.5 | 956.909     | 959.382      | 964.327      | 959.382      | 959.382      | 969.272      | 976.690      | 976.690      | 974.217      | 971.745      |
| 20.0 | 991.526     | 984.108      | 984.108      | 981.635      | 989.053      | 986.581      | 991.526      | 993.998      | 1001.416     | 998.944      |
| 22.5 | 1026.143    | 1021.197     | 1011.307     | 1008.834     | 1011.307     | 1011.307     | 1018.725     | 1018.725     | 1018.725     | 1016.252     |
| 25.0 | 1065.705    | 1058.287     | 1045.924     | 1040.978     | 1045.924     | 1045.924     | 1050.869     | 1045.924     | 1045.924     | 1038.506     |
| 27.5 | 1102.794    | 1095.376     | 1090.431     | 1087.958     | 1078.068     | 1083.013     | 1075.595     | 1073.123     | 1075.595     | 1068.177     |
| 30.0 | 1159.665    | 1152.247     | 1149.774     | 1132.466     | 1115.157     | 1115.157     | 1110.212     | 1105.267     | 1102.794     | 1090.431     |
| 32.5 | 1214.063    | 1209.117     | 1204.172     | 1189.336     | 1169.555     | 1154.720     | 1149.774     | 1142.356     | 1139.884     | 1122.575     |
| 35.0 | 1288.242    | 1275.879     | 1265.988     | 1248.680     | 1226.426     | 1204.172     | 1189.336     | 1179.446     | 1172.028     | 1154.720     |
| 37.5 | 1347.585    | 1340.167     | 1327.804     | 1315.441     | 1280.824     | 1256.098     | 1238.789     | 1221.481     | 1209.117     | 1194.282     |
| 40.0 | 1421.764    | 1419.291     | 1404.455     | 1377.257     | 1347.585     | 1325.331     | 1300.605     | 1273.406     | 1251.152     | 1243.734     |
| 42.5 | 1490.998    | 1488.525     | 1473.689     | 1461.326     | 1426.709     | 1394.565     | 1359.948     | 1342.640     | 1315.441     | 1308.023     |
| 45.0 | 1542.923    | 1540.450     | 1537.978     | 1520.669     | 1488.525     | 1466.271     | 1434.127     | 1411.873     | 1377.257     | 1377.257     |
| 47.5 | 1577.540    | 1577.540     | 1587.430     | 1575.067     | 1545.396     | 1523.142     | 1500.888     | 1478.634     | 1463.799     | 1448.963     |
| 50.0 | 1617.102    | 1612.157     | 1617.102     | 1619.575     | 1609.684     | 1580.012     | 1570.122     | 1560.231     | 1530.560     | 1523.142     |
| 52.5 | 1629.465    | 1629.465     | 1646.774     | 1661.609     | 1651.719     | 1636.883     | 1622.047     | 1617.102     | 1599.793     | 1582.485     |
| 55.0 | 1614.629    | 1634.410     | 1661.609     | 1671.500     | 1676.445     | 1673.972     | 1661.609     | 1654.191     | 1634.410     | 1617.102     |
| 57.5 | 1584.958    | 1609.684     | 1641.828     | 1661.609     | 1669.027     | 1678.918     | 1669.027     | 1661.609     | 1649.246     | 1617.102     |
| 60.0 | 1530.560    | 1552.813     | 1594.848     | 1626.992     | 1634.410     | 1651.719     | 1651.719     | 1636.883     | 1617.102     | 1587.430     |
| 62.5 | 1451.436    | 1486.052     | 1525.614     | 1555.286     | 1587.430     | 1589.903     | 1604.739     | 1589.903     | 1567.649     | 1540.450     |
| 65.0 | 1357.475    | 1394.565     | 1431.654     | 1458.853     | 1488.525     | 1503.361     | 1515.724     | 1503.361     | 1473.689     | 1446.490     |

# IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPX-L60-740-TFT-XXX-SDGL-DIM-UNV\_.IES

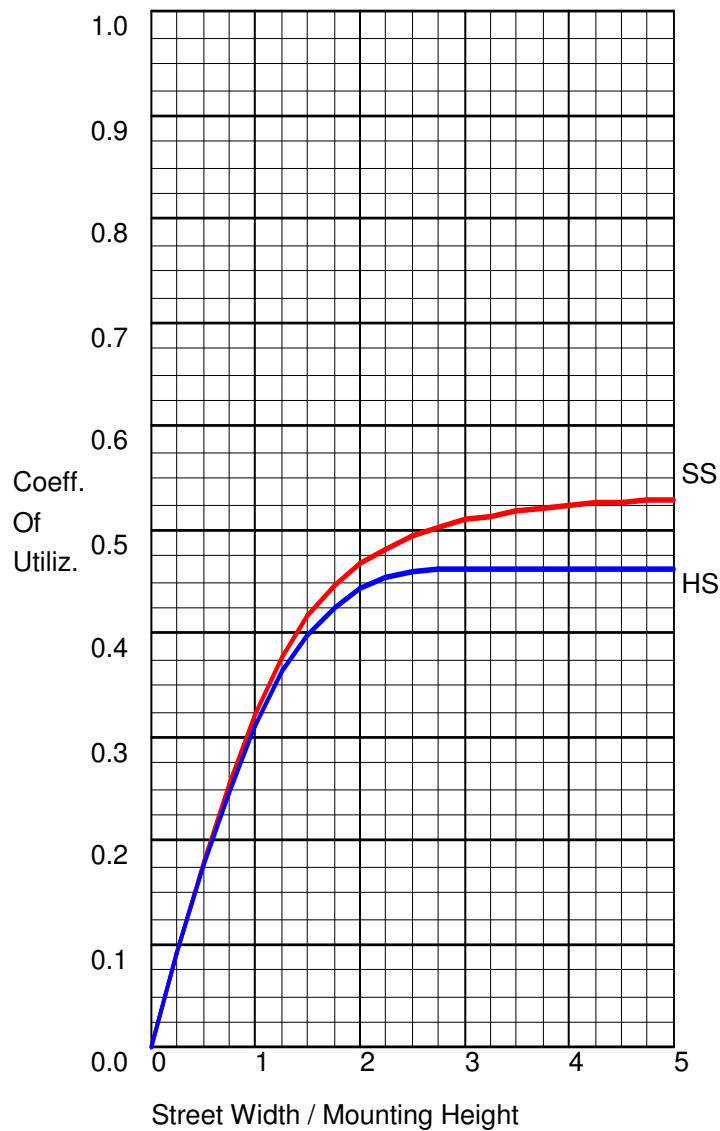
## CANDELA TABULATION - (Cont.)

|      |          |          |          |          |          |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 67.5 | 1241.262 | 1273.406 | 1305.550 | 1330.276 | 1359.948 | 1364.893 | 1369.839 | 1357.475 | 1327.804 | 1285.769 |
| 70.0 | 1090.431 | 1112.685 | 1152.247 | 1172.028 | 1201.700 | 1184.391 | 1191.809 | 1179.446 | 1132.466 | 1031.088 |
| 72.5 | 912.402  | 937.128  | 964.327  | 976.690  | 998.944  | 971.745  | 966.799  | 964.327  | 835.750  | 430.238  |
| 75.0 | 707.173  | 734.372  | 759.098  | 776.407  | 768.989  | 615.686  | 571.178  | 539.034  | 135.995  | 12.363   |
| 77.5 | 521.726  | 541.507  | 563.760  | 561.288  | 425.293  | 264.572  | 163.194  | 14.836   | 4.945    | 2.473    |
| 80.0 | 365.950  | 378.313  | 390.676  | 281.880  | 54.398   | 14.836   | 4.945    | 2.473    | 2.473    | 0.000    |
| 82.5 | 232.427  | 239.845  | 239.845  | 106.323  | 7.418    | 2.473    | 2.473    | 2.473    | 0.000    | 0.000    |
| 85.0 | 123.632  | 123.632  | 96.433   | 14.836   | 2.473    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 87.5 | 44.507   | 39.562   | 7.418    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| 90.0 | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |

## Vert. Horizontal Angles

|      | <u>145.0</u> | <u>150.0</u> | <u>155.0</u> | <u>160.0</u> | <u>165.0</u> | <u>170.0</u> | <u>175.0</u> | <u>180.0</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0  | 944.546      | 944.546      | 944.546      | 944.546      | 944.546      | 944.546      | 944.546      | 944.546      |
| 2.5  | 934.655      | 939.600      | 942.073      | 947.018      | 944.546      | 942.073      | 939.600      | 937.128      |
| 5.0  | 954.436      | 956.909      | 959.382      | 961.854      | 959.382      | 954.436      | 947.018      | 947.018      |
| 7.5  | 939.600      | 939.600      | 944.546      | 944.546      | 939.600      | 932.183      | 927.237      | 922.292      |
| 10.0 | 932.183      | 934.655      | 942.073      | 947.018      | 947.018      | 939.600      | 932.183      | 927.237      |
| 12.5 | 949.491      | 947.018      | 944.546      | 944.546      | 947.018      | 939.600      | 929.710      | 924.765      |
| 15.0 | 951.964      | 954.436      | 954.436      | 954.436      | 951.964      | 947.018      | 939.600      | 934.655      |
| 17.5 | 974.217      | 971.745      | 966.799      | 961.854      | 954.436      | 954.436      | 951.964      | 947.018      |
| 20.0 | 993.998      | 986.581      | 974.217      | 976.690      | 969.272      | 969.272      | 961.854      | 959.382      |
| 22.5 | 1013.779     | 1001.416     | 996.471      | 998.944      | 993.998      | 993.998      | 986.581      | 986.581      |
| 25.0 | 1038.506     | 1031.088     | 1021.197     | 1013.779     | 1018.725     | 1023.670     | 1013.779     | 1016.252     |
| 27.5 | 1063.232     | 1053.342     | 1053.342     | 1048.396     | 1048.396     | 1048.396     | 1036.033     | 1040.978     |
| 30.0 | 1092.904     | 1085.486     | 1075.595     | 1070.650     | 1085.486     | 1097.849     | 1085.486     | 1097.849     |
| 32.5 | 1112.685     | 1120.103     | 1110.212     | 1112.685     | 1112.685     | 1125.048     | 1129.993     | 1147.302     |
| 35.0 | 1147.302     | 1149.774     | 1144.829     | 1159.665     | 1167.083     | 1184.391     | 1194.282     | 1199.227     |
| 37.5 | 1186.864     | 1186.864     | 1199.227     | 1209.117     | 1211.590     | 1233.844     | 1248.680     | 1251.152     |
| 40.0 | 1238.789     | 1233.844     | 1258.570     | 1273.406     | 1283.296     | 1300.605     | 1320.386     | 1317.913     |
| 42.5 | 1298.132     | 1293.187     | 1315.441     | 1332.749     | 1350.058     | 1377.257     | 1394.565     | 1394.565     |
| 45.0 | 1369.839     | 1364.893     | 1382.202     | 1409.401     | 1414.346     | 1431.654     | 1453.908     | 1461.326     |
| 47.5 | 1446.490     | 1436.600     | 1453.908     | 1473.689     | 1481.107     | 1490.998     | 1513.251     | 1518.197     |
| 50.0 | 1520.669     | 1508.306     | 1515.724     | 1533.032     | 1540.450     | 1547.868     | 1555.286     | 1557.759     |
| 52.5 | 1575.067     | 1560.231     | 1552.813     | 1557.759     | 1560.231     | 1557.759     | 1555.286     | 1555.286     |
| 55.0 | 1587.430     | 1562.704     | 1545.396     | 1540.450     | 1535.505     | 1528.087     | 1515.724     | 1513.251     |
| 57.5 | 1567.649     | 1547.868     | 1518.197     | 1498.416     | 1483.580     | 1468.744     | 1453.908     | 1453.908     |
| 60.0 | 1537.978     | 1503.361     | 1473.689     | 1448.963     | 1416.819     | 1394.565     | 1364.893     | 1372.311     |
| 62.5 | 1488.525     | 1444.018     | 1401.983     | 1364.893     | 1317.913     | 1283.296     | 1246.207     | 1246.207     |
| 65.0 | 1392.092     | 1330.276     | 1263.515     | 1196.754     | 1095.376     | 1028.615     | 937.128      | 934.655      |
| 67.5 | 1211.590     | 1085.486     | 897.566      | 677.501      | 417.875      | 296.716      | 148.358      | 148.358      |
| 70.0 | 783.825      | 437.656      | 103.851      | 22.254       | 12.363       | 9.891        | 9.891        | 9.891        |
| 72.5 | 61.816       | 14.836       | 7.418        | 7.418        | 4.945        | 4.945        | 4.945        | 4.945        |
| 75.0 | 7.418        | 4.945        | 2.473        | 2.473        | 2.473        | 2.473        | 2.473        | 2.473        |
| 77.5 | 2.473        | 2.473        | 2.473        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| 80.0 | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| 82.5 | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| 85.0 | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| 87.5 | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| 90.0 | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |

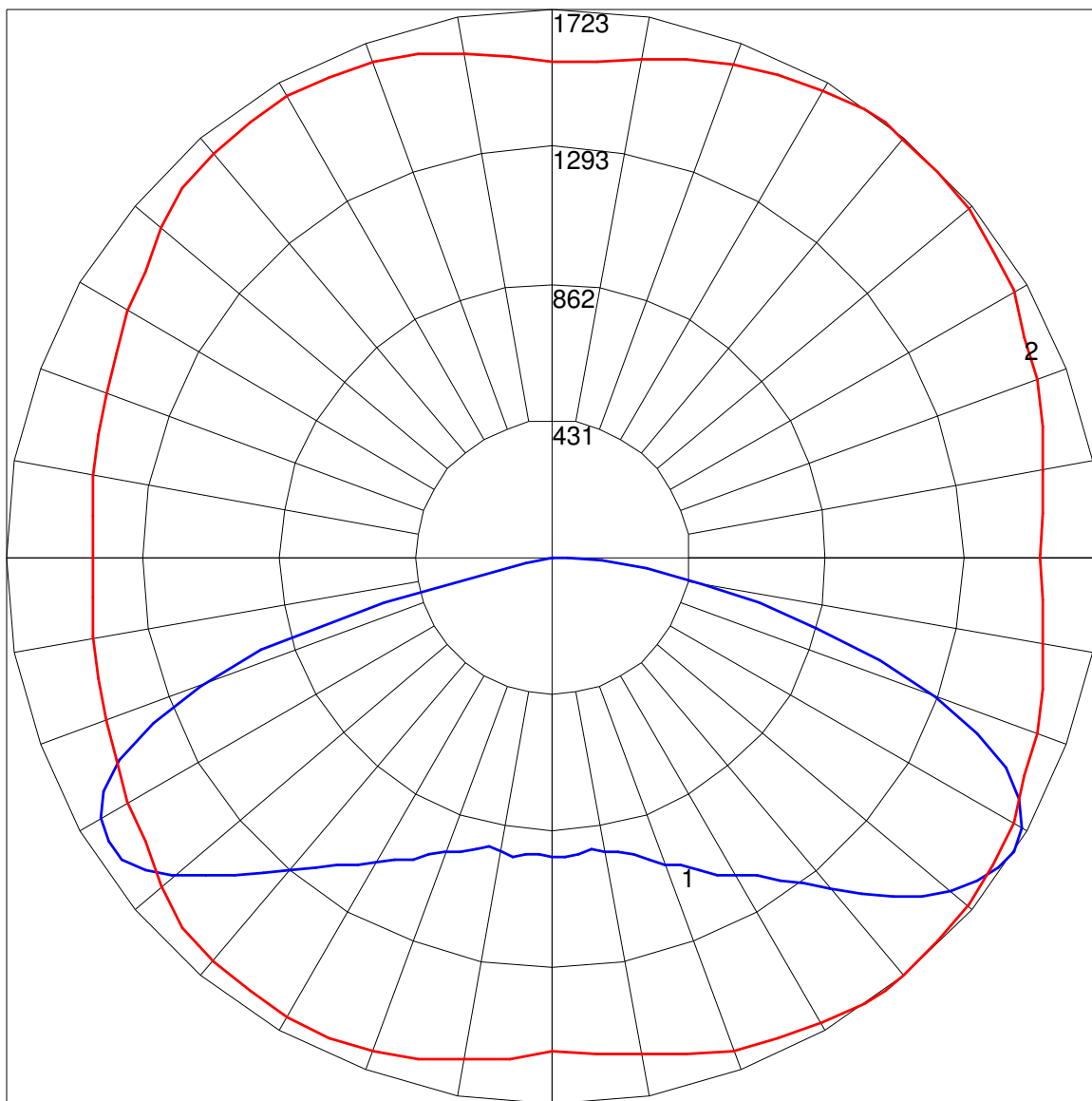
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

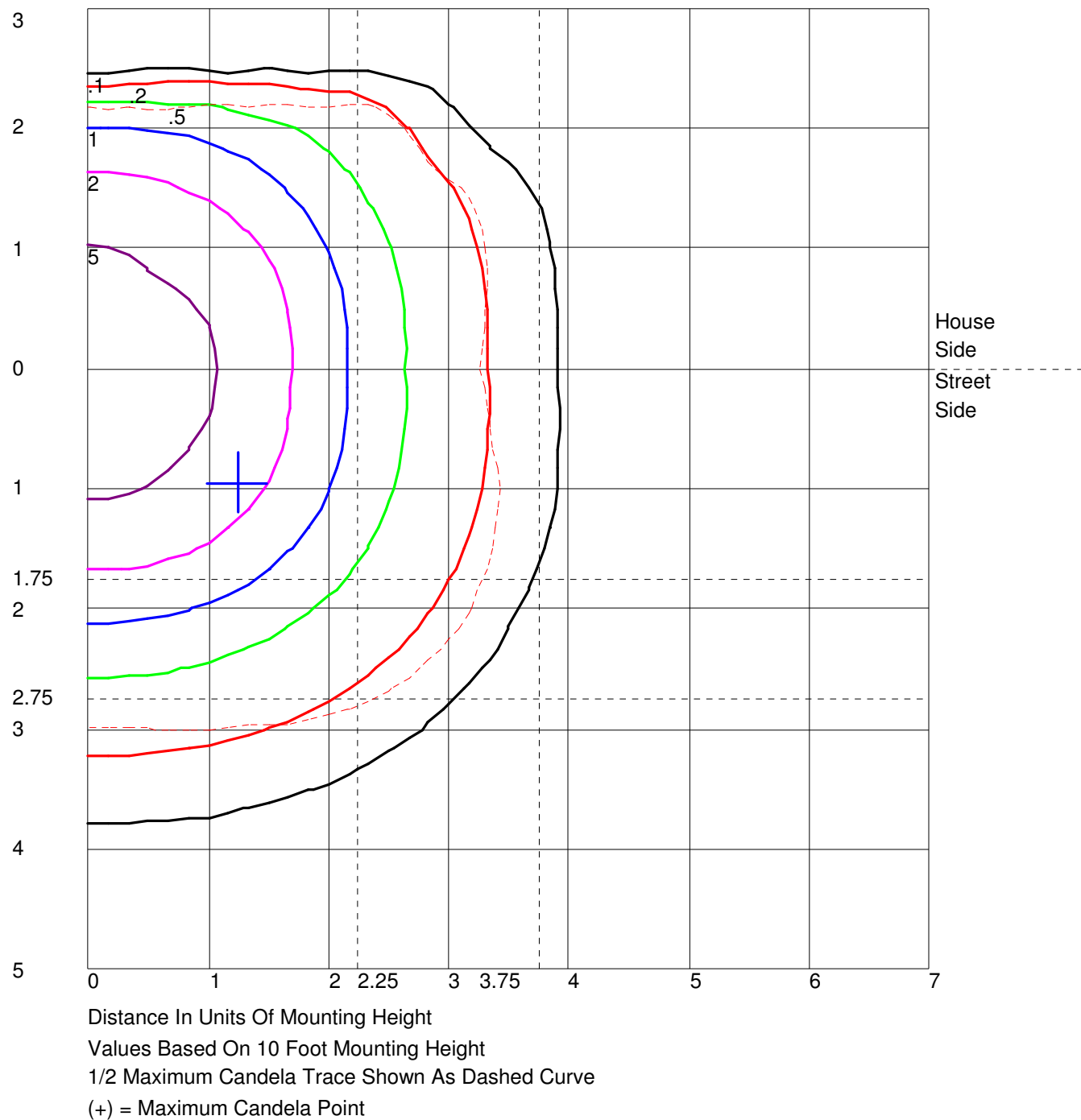
|                      | Lumens | Percent<br>Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 3366.7 | 53.8                    |
| Downward House Side  | 2896.0 | 46.2                    |
| Downward Total       | 6262.7 | 100.0                   |
| Upward Street Side   | 0.0    | 0.0                     |
| Upward House Side    | 0.0    | 0.0                     |
| Upward Total         | 0.0    | 0.0                     |
| Total Flux           | 6262.7 | 100.0                   |

POLAR GRAPH



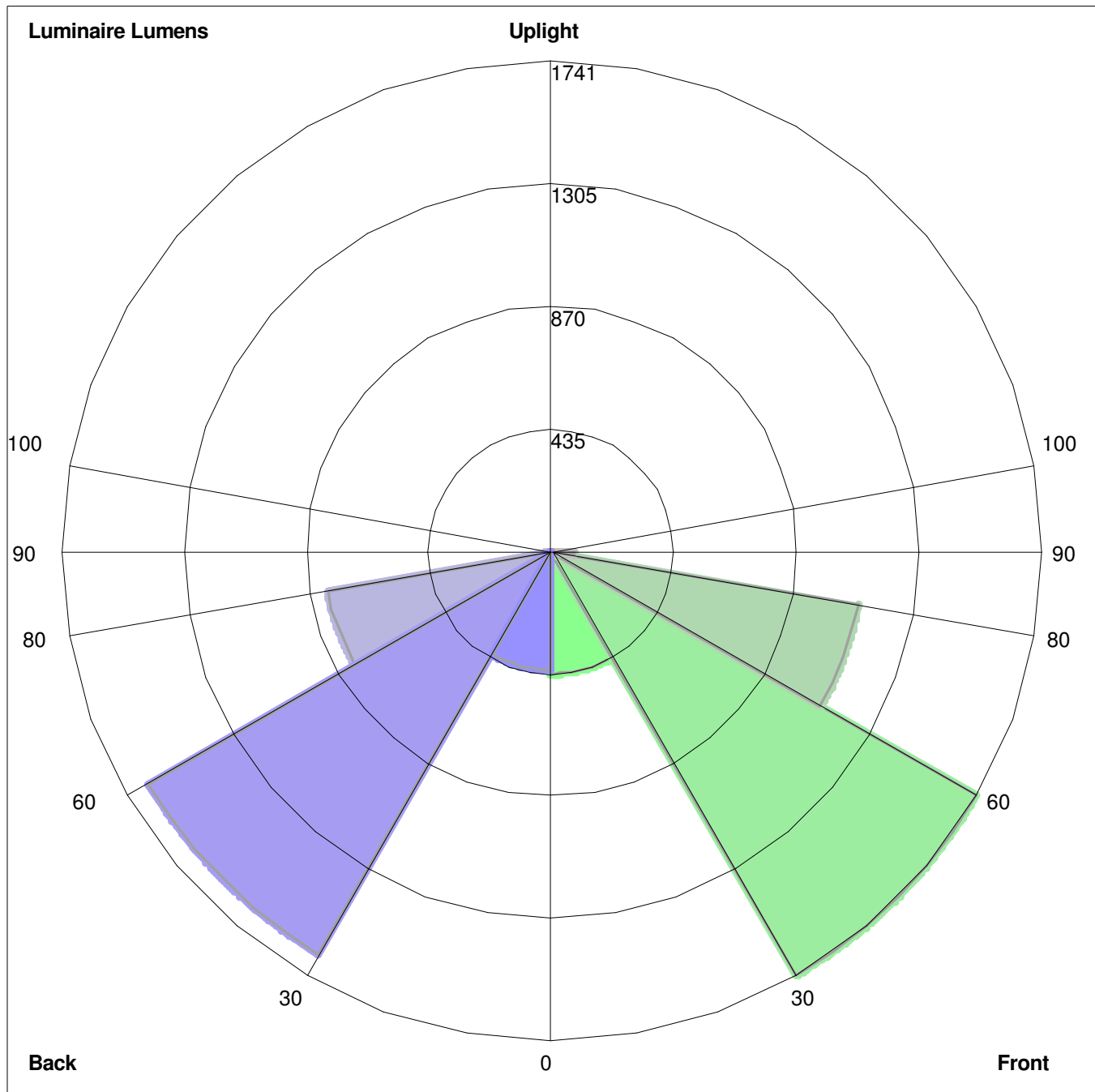
Maximum Candela = 1723.425 Located At Horizontal Angle = 52.5, Vertical Angle = 57.5  
# 1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

## ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=435.9, Medium=1740.6, High=1105.7, Very High=84.6  
Back: Low=422.2, Medium=1649.5, High=806.7, Very High=17.5  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2