

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P651466

Luminaire Tested: **GALN-SA6D-840-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651466  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-840-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33254.8 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

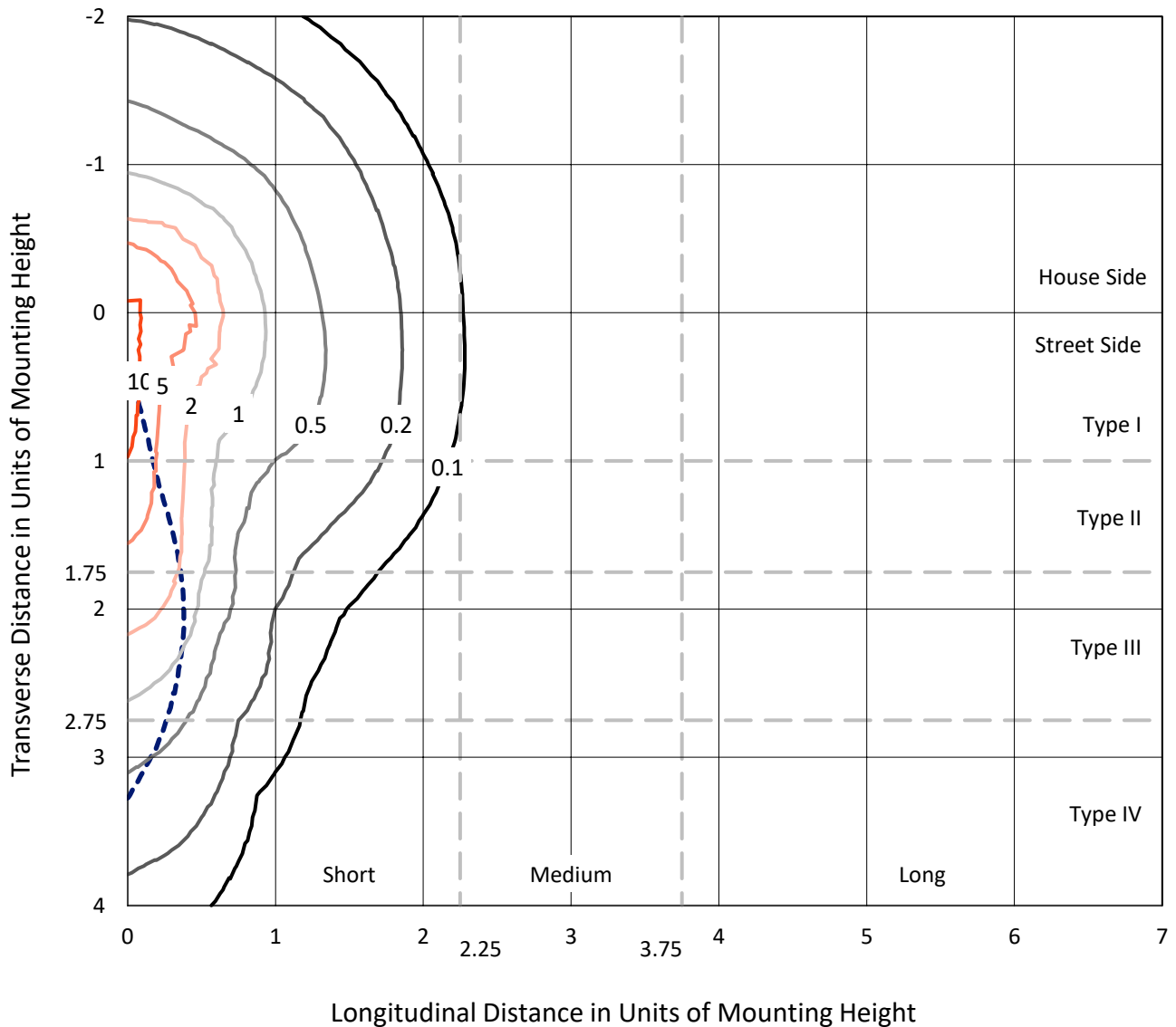




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### Iso-Footcandle Lines of Horizontal Illumination

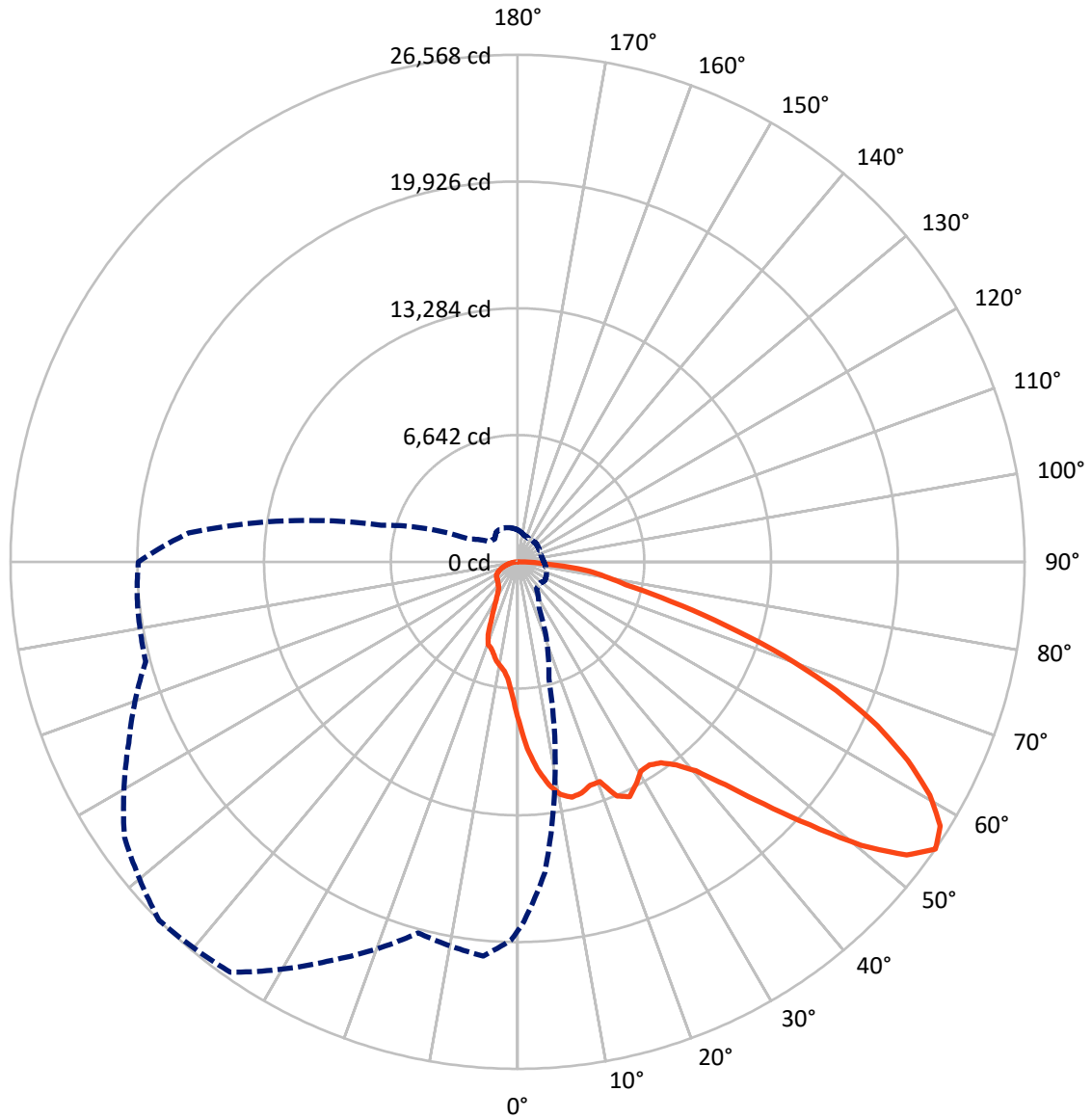
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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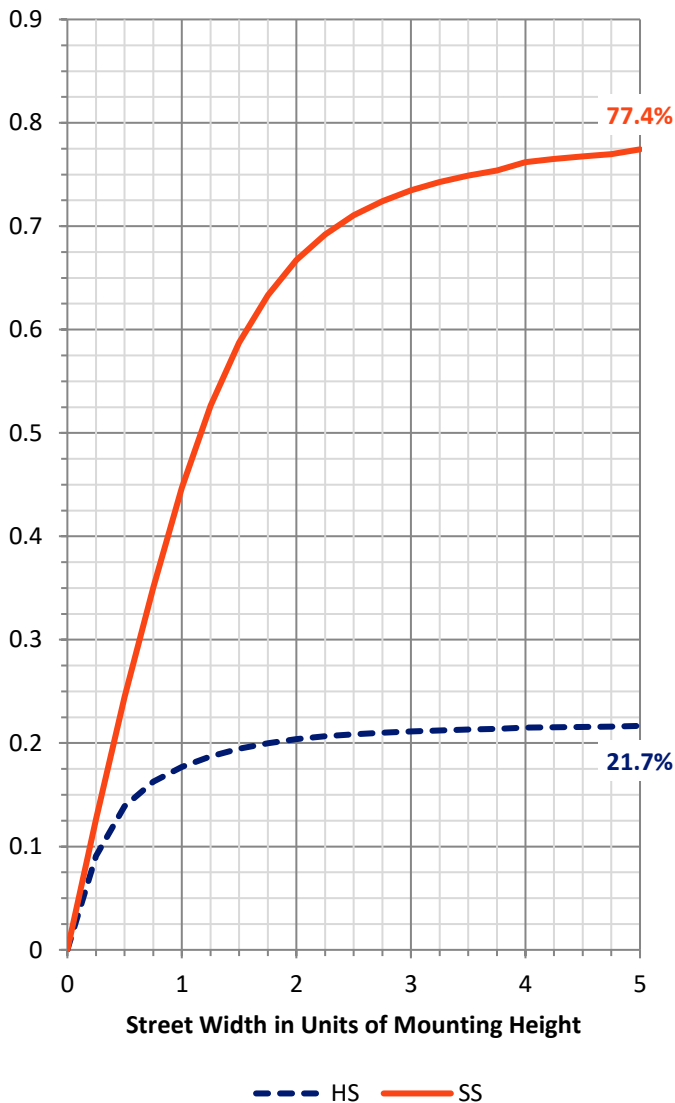
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7274.3   | 0.0    | 7274.3  |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 25980.5  | 0.0    | 25980.5 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 33254.8  | 0.0    | 33254.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 707.3   | 2.1       |
| 10°-20°   | 1876.5  | 5.6       |
| 20°-30°   | 3241.8  | 9.7       |
| 30°-40°   | 3767.5  | 11.3      |
| 40°-50°   | 5256.4  | 15.8      |
| 50°-60°   | 7132.4  | 21.4      |
| 60°-70°   | 6785.6  | 20.4      |
| 70°-80°   | 3665.8  | 11.0      |
| 80°-90°   | 821.6   | 2.5       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 33254.8 | 100.0     |
| 0°-180°   | 33254.8 | 100.0     |

**Coefficient of Utilization**



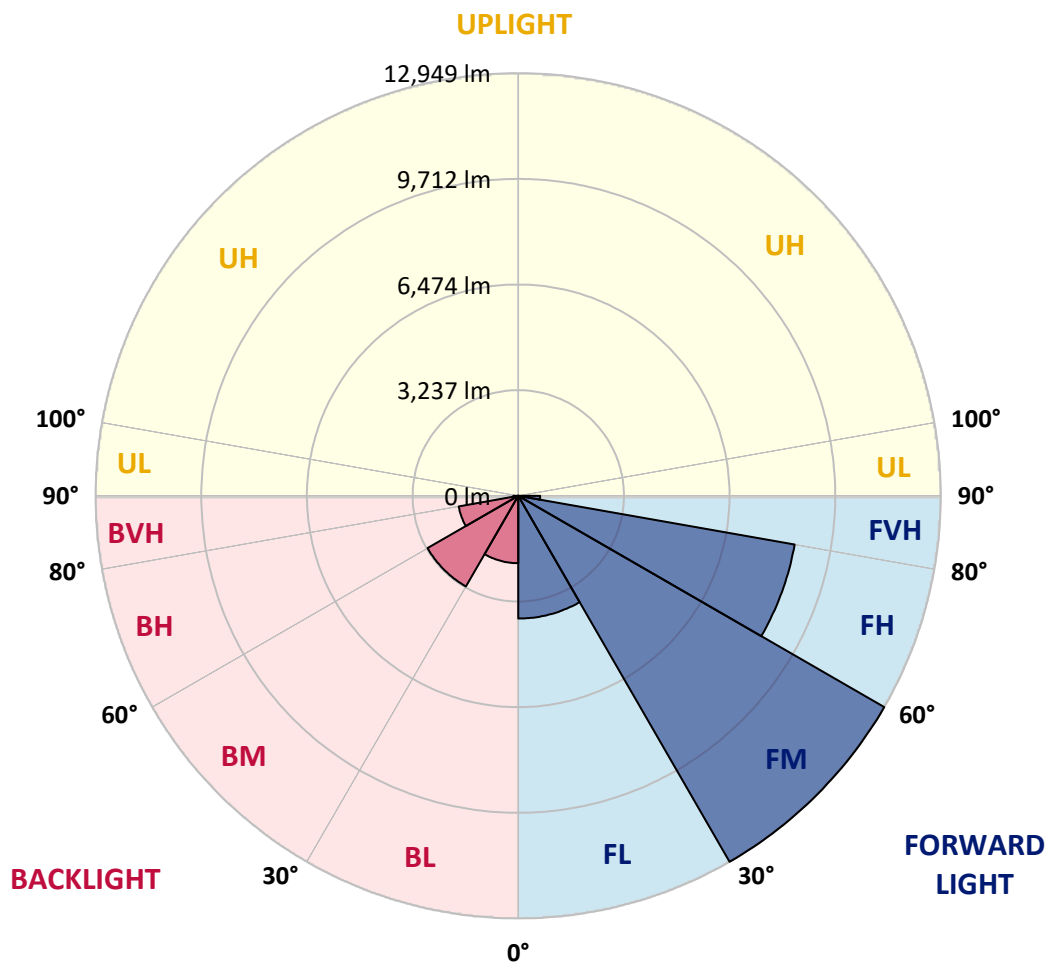
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3761.2  | 11.3      |                         |      |          |
| FM (30°-60°)   | 12948.7 | 38.9      |                         |      |          |
| FH (60°-80°)   | 8599.1  | 25.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 671.4   | 2.0       |                         |      | G4/750   |
| BL (0°-30°)    | 2064.5  | 6.2       | B3/2500                 |      |          |
| BM (30°-60°)   | 3207.5  | 9.6       | B3/5000                 |      |          |
| BH (60°-80°)   | 1852.2  | 5.6       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 150.1   | 0.5       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8345.7  | 8345.7  | 8345.7  | 8345.7 | 8345.7 | 8345.7 | 8345.7 | 8345.7 | 8345.7 | 8345.7 | 8345.7 |
| 2.5°  | 9271.5  | 9236.4  | 9137.6  | 8878.8 | 8617.7 | 8352.2 | 8148.2 | 7893.7 | 7628.3 | 7485.7 | 7303.6 |
| 5°    | 9398.8  | 9359.2  | 9126.7  | 8543.1 | 8014.4 | 7459.3 | 7016.1 | 6627.8 | 6469.9 | 6237.3 | 6050.8 |
| 7.5°  | 9100.4  | 9082.8  | 8734.0  | 7895.9 | 7171.9 | 6445.8 | 5943.3 | 5631.8 | 5348.8 | 5243.5 | 5265.4 |
| 10°   | 8828.3  | 8758.1  | 8321.5  | 7226.8 | 6382.1 | 5792.0 | 5432.1 | 5127.2 | 4927.5 | 4874.9 | 4885.9 |
| 12.5° | 8602.3  | 8508.0  | 7992.4  | 6777.0 | 6037.6 | 5566.0 | 5107.5 | 4789.3 | 4607.3 | 4657.7 | 4828.9 |
| 15°   | 8556.2  | 8429.0  | 7854.2  | 6623.5 | 5849.0 | 5241.3 | 4738.9 | 4372.4 | 4236.5 | 4346.1 | 4620.4 |
| 17.5° | 8854.6  | 8694.5  | 8091.2  | 6673.9 | 5669.1 | 4910.0 | 4293.5 | 3874.5 | 3760.4 | 3935.9 | 4293.5 |
| 20°   | 9813.4  | 9576.5  | 8830.5  | 6965.7 | 5651.5 | 4745.4 | 4034.6 | 3613.4 | 3661.6 | 3995.1 | 4368.1 |
| 22.5° | 11586.0 | 11230.6 | 10125.0 | 7391.3 | 5743.7 | 4703.8 | 3982.0 | 3762.5 | 4028.1 | 4311.1 | 4556.8 |
| 25°   | 11937.1 | 11658.4 | 10357.5 | 7487.8 | 5723.9 | 4675.2 | 4131.2 | 4240.8 | 4537.0 | 4677.4 | 4591.9 |
| 27.5° | 12134.5 | 11816.5 | 10342.1 | 7009.6 | 5118.4 | 4240.8 | 3949.1 | 4131.2 | 4205.8 | 4069.7 | 3837.1 |
| 30°   | 12595.3 | 12264.0 | 10603.2 | 6507.2 | 4214.5 | 3146.1 | 2757.7 | 2683.1 | 2733.6 | 2759.9 | 2676.6 |
| 32.5° | 13229.4 | 12902.5 | 11094.6 | 6178.1 | 3644.1 | 2602.0 | 2220.2 | 2114.9 | 2090.8 | 2062.3 | 2029.3 |
| 35°   | 14049.8 | 13547.4 | 11577.3 | 5967.5 | 3409.3 | 2406.7 | 2055.7 | 1974.5 | 1941.6 | 1902.1 | 1867.0 |
| 37.5° | 14883.5 | 14357.0 | 12187.2 | 5745.9 | 3253.6 | 2270.7 | 1946.0 | 1908.7 | 1851.6 | 1810.0 | 1759.5 |
| 40°   | 15769.8 | 15179.7 | 12742.2 | 5552.8 | 3102.2 | 2183.0 | 1867.0 | 1862.6 | 1788.1 | 1739.8 | 1680.6 |
| 42.5° | 16537.8 | 15930.1 | 13238.1 | 5434.4 | 2985.9 | 2090.8 | 1818.7 | 1832.0 | 1755.2 | 1682.8 | 1606.0 |
| 45°   | 17147.7 | 16550.9 | 13696.6 | 5434.4 | 2891.6 | 1998.6 | 1810.0 | 1801.2 | 1724.4 | 1634.5 | 1546.7 |
| 47.5° | 17683.0 | 17066.5 | 14144.2 | 5572.6 | 2832.3 | 1921.9 | 1761.7 | 1777.0 | 1698.1 | 1584.0 | 1498.4 |
| 50°   | 18097.6 | 17553.5 | 14747.5 | 5787.6 | 2773.1 | 1860.5 | 1700.2 | 1783.7 | 1676.1 | 1557.7 | 1459.0 |
| 52.5° | 18626.4 | 18139.3 | 15473.7 | 6081.5 | 2722.7 | 1792.4 | 1645.4 | 1783.7 | 1673.9 | 1559.9 | 1452.4 |
| 55°   | 19359.1 | 18845.7 | 16349.0 | 6325.1 | 2641.5 | 1728.8 | 1597.1 | 1733.2 | 1667.4 | 1548.9 | 1434.8 |
| 57.5° | 19872.5 | 19488.6 | 16967.8 | 6487.4 | 2525.2 | 1647.6 | 1553.3 | 1684.9 | 1638.9 | 1507.2 | 1382.2 |
| 58°   | 19896.6 | 19521.5 | 17057.7 | 6524.7 | 2496.7 | 1632.3 | 1542.3 | 1663.0 | 1625.7 | 1489.7 | 1364.6 |
| 60°   | 19620.2 | 19297.7 | 17075.2 | 6472.1 | 2334.4 | 1555.5 | 1485.3 | 1573.0 | 1555.5 | 1386.6 | 1270.2 |
| 62.5° | 18615.4 | 18271.0 | 16366.6 | 6044.3 | 2119.3 | 1461.2 | 1397.5 | 1452.4 | 1412.9 | 1241.7 | 1134.3 |
| 65°   | 17187.2 | 16553.1 | 14909.8 | 5372.9 | 1965.8 | 1360.2 | 1279.1 | 1283.5 | 1241.7 | 1118.9 | 1024.6 |
| 67.5° | 15285.0 | 14576.4 | 12623.8 | 4528.3 | 1849.4 | 1248.4 | 1138.6 | 1127.7 | 1077.2 | 998.3  | 921.5  |
| 70°   | 12944.1 | 12459.2 | 10258.8 | 3683.6 | 1720.0 | 1125.5 | 980.7  | 974.1  | 943.3  | 884.1  | 816.1  |
| 72.5° | 10491.3 | 9874.9  | 8284.3  | 2948.6 | 1562.1 | 1007.0 | 833.7  | 846.9  | 807.4  | 765.6  | 704.3  |
| 75°   | 7742.3  | 7338.7  | 6404.0  | 2365.1 | 1349.3 | 877.6  | 695.5  | 699.9  | 682.3  | 638.4  | 590.1  |
| 77.5° | 5098.6  | 4978.0  | 4580.9  | 1553.3 | 1037.7 | 697.7  | 568.3  | 572.6  | 559.4  | 520.0  | 469.5  |
| 80°   | 3431.3  | 3350.1  | 3104.4  | 1000.5 | 693.2  | 504.6  | 438.7  | 443.2  | 440.9  | 399.3  | 331.3  |
| 82.5° | 2114.9  | 2079.8  | 2000.8  | 675.7  | 480.5  | 362.0  | 289.6  | 302.8  | 326.9  | 280.8  | 226.0  |
| 85°   | 998.3   | 1000.5  | 1208.9  | 368.6  | 283.0  | 232.5  | 157.9  | 169.0  | 169.0  | 169.0  | 127.2  |
| 87.5° | 129.4   | 136.0   | 166.8   | 155.8  | 103.1  | 87.7   | 57.0   | 48.3   | 41.7   | 54.8   | 39.5   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8345.7 | 8345.7 | 8345.7 | 8345.7 | 8345.7 | 8345.7 | 8345.7 | 8345.7 | 8345.7 | 8345.7 | 8345.7 |
| 2.5°  | 7239.9 | 7196.0 | 7101.7 | 7079.8 | 7066.6 | 7103.9 | 7005.2 | 7031.5 | 6987.6 | 7110.5 | 7090.7 |
| 5°    | 6061.8 | 6066.2 | 6143.0 | 6193.5 | 6211.0 | 6193.5 | 6127.6 | 6013.5 | 5925.8 | 5890.7 | 5899.4 |
| 7.5°  | 5223.7 | 5300.5 | 5432.1 | 5579.1 | 5713.0 | 5752.4 | 5715.2 | 5498.0 | 5261.0 | 5111.9 | 5063.6 |
| 10°   | 4945.1 | 5048.2 | 5199.6 | 5315.9 | 5434.4 | 5528.6 | 5548.4 | 5379.5 | 5098.6 | 4745.4 | 4607.3 |
| 12.5° | 4960.5 | 5100.8 | 5245.7 | 5283.0 | 5272.0 | 5309.3 | 5291.7 | 5263.2 | 5078.9 | 4629.2 | 4398.8 |
| 15°   | 4815.7 | 4982.4 | 5083.3 | 5063.6 | 5028.4 | 4995.5 | 4949.5 | 4877.0 | 4811.3 | 4495.3 | 4240.8 |
| 17.5° | 4482.2 | 4653.3 | 4736.7 | 4743.2 | 4743.2 | 4734.5 | 4622.6 | 4596.2 | 4587.5 | 4433.9 | 4278.2 |
| 20°   | 4543.6 | 4637.9 | 4600.6 | 4539.2 | 4556.8 | 4616.0 | 4550.1 | 4537.0 | 4587.5 | 4655.5 | 4626.9 |
| 22.5° | 4578.7 | 4545.8 | 4265.0 | 3992.9 | 3931.5 | 4115.8 | 4153.1 | 4300.1 | 4504.1 | 4749.8 | 4910.0 |
| 25°   | 4361.5 | 4096.0 | 3593.7 | 3286.5 | 3113.1 | 3284.3 | 3508.1 | 3780.1 | 4085.1 | 4401.0 | 4587.5 |
| 27.5° | 3646.3 | 3444.5 | 3084.6 | 2808.2 | 2656.8 | 2683.1 | 2874.0 | 3122.0 | 3405.0 | 3617.7 | 3753.8 |
| 30°   | 2746.8 | 2656.8 | 2470.4 | 2376.0 | 2283.9 | 2262.0 | 2343.1 | 2437.5 | 2562.5 | 2588.9 | 2623.9 |
| 32.5° | 2022.8 | 2009.7 | 2020.6 | 1989.9 | 1972.3 | 1970.1 | 1946.0 | 1967.9 | 1981.1 | 1996.4 | 1965.8 |
| 35°   | 1829.8 | 1812.2 | 1781.5 | 1772.7 | 1761.7 | 1766.1 | 1755.2 | 1744.1 | 1753.0 | 1766.1 | 1774.8 |
| 37.5° | 1731.0 | 1704.7 | 1660.8 | 1645.4 | 1645.4 | 1652.1 | 1634.5 | 1630.1 | 1645.4 | 1687.1 | 1709.1 |
| 40°   | 1654.2 | 1623.5 | 1573.0 | 1553.3 | 1566.4 | 1584.0 | 1559.9 | 1551.1 | 1588.4 | 1632.3 | 1667.4 |
| 42.5° | 1581.8 | 1557.7 | 1509.4 | 1487.5 | 1498.4 | 1531.4 | 1496.2 | 1489.7 | 1537.9 | 1586.2 | 1627.9 |
| 45°   | 1520.4 | 1496.2 | 1452.4 | 1441.4 | 1445.8 | 1476.5 | 1452.4 | 1452.4 | 1498.4 | 1551.1 | 1588.4 |
| 47.5° | 1472.1 | 1441.4 | 1412.9 | 1404.1 | 1408.5 | 1426.1 | 1421.6 | 1421.6 | 1465.5 | 1520.4 | 1557.7 |
| 50°   | 1423.8 | 1397.5 | 1360.2 | 1364.6 | 1375.6 | 1399.8 | 1397.5 | 1404.1 | 1447.9 | 1516.0 | 1555.5 |
| 52.5° | 1401.9 | 1362.4 | 1320.7 | 1325.2 | 1358.0 | 1386.6 | 1377.8 | 1384.4 | 1434.8 | 1562.1 | 1619.1 |
| 55°   | 1377.8 | 1325.2 | 1276.9 | 1283.5 | 1320.7 | 1362.4 | 1351.5 | 1360.2 | 1419.4 | 1592.8 | 1671.7 |
| 57.5° | 1331.7 | 1270.2 | 1217.6 | 1222.0 | 1276.9 | 1320.7 | 1303.2 | 1314.1 | 1384.4 | 1559.9 | 1643.2 |
| 58°   | 1312.0 | 1259.3 | 1208.9 | 1211.0 | 1263.7 | 1312.0 | 1292.2 | 1301.0 | 1373.4 | 1551.1 | 1630.1 |
| 60°   | 1228.6 | 1197.9 | 1154.0 | 1156.2 | 1206.7 | 1248.4 | 1237.4 | 1246.1 | 1316.3 | 1487.5 | 1546.7 |
| 62.5° | 1114.5 | 1097.0 | 1086.0 | 1086.0 | 1116.7 | 1156.2 | 1167.1 | 1178.2 | 1241.7 | 1344.8 | 1397.5 |
| 65°   | 991.6  | 991.6  | 993.8  | 993.8  | 1013.6 | 1064.0 | 1070.6 | 1099.2 | 1158.4 | 1208.9 | 1248.4 |
| 67.5° | 908.3  | 903.9  | 908.3  | 897.3  | 906.1  | 936.8  | 969.7  | 996.1  | 1057.5 | 1092.5 | 1105.7 |
| 70°   | 800.8  | 798.6  | 800.8  | 785.4  | 796.4  | 822.8  | 844.6  | 888.5  | 952.2  | 978.5  | 985.1  |
| 72.5° | 695.5  | 695.5  | 699.9  | 688.9  | 688.9  | 717.4  | 732.8  | 781.0  | 840.2  | 855.6  | 857.8  |
| 75°   | 585.8  | 592.3  | 592.3  | 577.0  | 581.4  | 599.0  | 618.7  | 658.2  | 713.0  | 724.0  | 724.0  |
| 77.5° | 465.1  | 489.2  | 489.2  | 473.9  | 480.5  | 482.6  | 509.0  | 528.7  | 570.5  | 574.8  | 557.2  |
| 80°   | 337.8  | 362.0  | 381.7  | 368.6  | 379.5  | 366.4  | 381.7  | 394.9  | 436.6  | 416.9  | 388.3  |
| 82.5° | 241.4  | 258.9  | 274.3  | 276.4  | 265.5  | 241.4  | 261.0  | 263.2  | 283.0  | 256.7  | 241.4  |
| 85°   | 133.8  | 149.2  | 169.0  | 160.1  | 142.6  | 127.2  | 133.8  | 138.2  | 136.0  | 129.4  | 120.7  |
| 87.5° | 35.1   | 37.3   | 41.7   | 30.7   | 28.5   | 24.1   | 32.9   | 32.9   | 37.3   | 39.5   | 37.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |





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**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°    | 270°    | 275°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 8345.7 | 8345.7 | 8345.7 | 8345.7 | 8345.7 | 8345.7 | 8345.7 | 8345.7 | 8345.7  | 8345.7  | 8345.7  |
| 2.5°  | 7106.1 | 7202.7 | 7411.1 | 7569.0 | 7762.1 | 7996.8 | 8273.3 | 8551.9 | 8852.5  | 8946.8  | 9078.4  |
| 5°    | 5879.7 | 6121.1 | 6222.0 | 6509.3 | 6794.5 | 7222.3 | 7678.8 | 8207.4 | 8786.6  | 9065.3  | 9332.9  |
| 7.5°  | 5024.0 | 5153.5 | 5258.9 | 5469.4 | 5811.6 | 6331.6 | 6904.3 | 7564.6 | 8385.2  | 8791.1  | 9183.7  |
| 10°   | 4563.4 | 4576.5 | 4706.0 | 4967.0 | 5265.4 | 5723.9 | 6265.8 | 7005.2 | 7920.0  | 8413.7  | 8874.4  |
| 12.5° | 4258.4 | 4201.4 | 4341.7 | 4613.8 | 4951.6 | 5375.1 | 5873.1 | 6577.4 | 7584.4  | 8091.2  | 8648.4  |
| 15°   | 3990.7 | 3900.8 | 4006.1 | 4284.7 | 4618.2 | 5116.2 | 5651.5 | 6397.5 | 7452.8  | 8042.9  | 8661.6  |
| 17.5° | 3997.4 | 3749.4 | 3786.7 | 4021.4 | 4352.8 | 4859.6 | 5508.9 | 6390.8 | 7652.3  | 8332.5  | 9065.3  |
| 20°   | 4490.9 | 4093.8 | 3924.9 | 3968.8 | 4289.1 | 4842.0 | 5574.7 | 6698.1 | 8308.3  | 9300.0  | 10083.3 |
| 22.5° | 4975.8 | 4736.7 | 4464.6 | 4374.6 | 4550.1 | 5129.3 | 5993.8 | 7424.2 | 9734.4  | 11228.4 | 12643.5 |
| 25°   | 4806.9 | 5010.9 | 4942.9 | 4815.7 | 4855.2 | 5335.6 | 6279.0 | 8021.0 | 10842.3 | 12525.1 | 13854.5 |
| 27.5° | 3846.0 | 4216.7 | 4291.3 | 4289.1 | 4304.5 | 4699.3 | 5647.1 | 7619.5 | 10980.5 | 12773.0 | 14043.3 |
| 30°   | 2702.9 | 2735.8 | 2775.3 | 2852.1 | 2922.3 | 3275.5 | 4418.5 | 6689.2 | 10919.1 | 12884.9 | 14157.3 |
| 32.5° | 1950.4 | 1994.3 | 2049.1 | 2154.4 | 2321.2 | 2770.9 | 3865.7 | 6393.1 | 11243.8 | 13347.8 | 14490.9 |
| 35°   | 1783.7 | 1834.1 | 1886.8 | 2007.5 | 2165.4 | 2582.2 | 3646.3 | 6270.2 | 11776.9 | 14098.1 | 15089.7 |
| 37.5° | 1731.0 | 1788.1 | 1834.1 | 1921.9 | 2049.1 | 2446.2 | 3446.7 | 6186.8 | 12323.3 | 14892.3 | 15892.7 |
| 40°   | 1693.7 | 1759.5 | 1796.8 | 1867.0 | 1954.8 | 2321.2 | 3269.0 | 6121.1 | 12852.0 | 15618.5 | 16537.8 |
| 42.5° | 1660.8 | 1728.8 | 1777.0 | 1827.5 | 1899.9 | 2209.3 | 3110.9 | 6055.2 | 13310.5 | 16322.7 | 17180.5 |
| 45°   | 1621.3 | 1706.9 | 1768.3 | 1807.8 | 1871.4 | 2114.9 | 2990.3 | 6002.6 | 13832.7 | 16948.0 | 17830.0 |
| 47.5° | 1588.4 | 1682.8 | 1759.5 | 1805.6 | 1829.8 | 2049.1 | 2893.8 | 6075.0 | 14460.1 | 17601.8 | 18433.3 |
| 50°   | 1590.6 | 1680.6 | 1777.0 | 1849.4 | 1785.9 | 1994.3 | 2834.5 | 6362.3 | 15276.3 | 18378.5 | 18909.4 |
| 52.5° | 1660.8 | 1770.5 | 1847.3 | 1864.8 | 1724.4 | 1928.4 | 2803.8 | 6864.7 | 16241.6 | 19065.1 | 19389.8 |
| 55°   | 1739.8 | 1853.9 | 1937.2 | 1926.2 | 1691.5 | 1845.1 | 2797.3 | 7400.0 | 17299.0 | 19865.9 | 20015.1 |
| 57.5° | 1711.3 | 1878.0 | 2005.3 | 1948.2 | 1693.7 | 1763.9 | 2768.7 | 7832.3 | 18183.2 | 20464.9 | 20633.8 |
| 58°   | 1702.5 | 1869.2 | 2014.0 | 1943.8 | 1687.1 | 1739.8 | 2762.2 | 7869.6 | 18306.0 | 20506.5 | 20721.6 |
| 60°   | 1616.9 | 1792.4 | 2007.5 | 1910.9 | 1649.8 | 1673.9 | 2689.8 | 7990.3 | 18273.2 | 20291.6 | 20774.2 |
| 62.5° | 1461.2 | 1606.0 | 1856.1 | 1750.7 | 1535.8 | 1586.2 | 2527.4 | 7841.1 | 17382.4 | 19256.0 | 20004.1 |
| 65°   | 1285.6 | 1393.1 | 1559.9 | 1540.1 | 1373.4 | 1496.2 | 2305.8 | 7250.9 | 15598.8 | 17575.5 | 18363.1 |
| 67.5° | 1154.0 | 1241.7 | 1347.0 | 1318.5 | 1235.2 | 1375.6 | 2066.7 | 6252.7 | 13597.9 | 15557.1 | 16548.7 |
| 70°   | 1020.1 | 1088.2 | 1140.8 | 1121.1 | 1094.7 | 1257.1 | 1853.9 | 5074.5 | 11680.4 | 13639.6 | 14600.5 |
| 72.5° | 884.1  | 947.8  | 991.6  | 963.1  | 947.8  | 1132.1 | 1680.6 | 3938.1 | 9225.4  | 11252.6 | 12487.8 |
| 75°   | 739.3  | 803.0  | 833.7  | 800.8  | 792.0  | 998.3  | 1423.8 | 2942.1 | 6921.9  | 8674.7  | 9741.0  |
| 77.5° | 572.6  | 640.6  | 680.1  | 669.2  | 673.6  | 820.6  | 1149.6 | 2014.0 | 4949.5  | 5912.6  | 7035.9  |
| 80°   | 401.5  | 476.1  | 502.4  | 491.4  | 522.2  | 625.3  | 811.7  | 1279.1 | 3413.7  | 3837.1  | 4629.2  |
| 82.5° | 247.9  | 318.2  | 322.5  | 333.5  | 355.4  | 462.9  | 612.1  | 778.9  | 2143.5  | 2215.9  | 2790.7  |
| 85°   | 125.1  | 151.4  | 162.3  | 179.9  | 199.7  | 283.0  | 348.8  | 482.6  | 1380.0  | 1044.3  | 1559.9  |
| 87.5° | 41.7   | 43.9   | 52.6   | 65.9   | 81.2   | 116.3  | 149.2  | 197.5  | 342.3   | 188.6   | 482.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |



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| 62.5° | 20107.2 | 20783.0 | 22160.8 | 22950.6 | 22845.3 | 20675.5 | 19934.0 | 20153.3 | 18918.1 | 18615.4 |
| 65°   | 19493.0 | 19335.0 | 20157.7 | 20717.2 | 20796.2 | 19725.5 | 19593.9 | 18810.6 | 17615.0 | 17187.2 |
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| 70°   | 17481.1 | 15164.3 | 14466.7 | 14841.9 | 14732.1 | 15769.8 | 17619.4 | 15302.6 | 13472.8 | 12944.1 |
| 72.5° | 15160.0 | 12033.6 | 10916.9 | 11399.6 | 11123.2 | 12367.1 | 15416.6 | 12593.0 | 11140.7 | 10491.3 |
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| 85°   | 2749.0  | 2395.8  | 2180.7  | 1667.4  | 1963.6  | 2279.4  | 2810.4  | 1388.7  | 1101.4  | 998.3   |
| 87.5° | 1241.7  | 833.7   | 612.1   | 377.4   | 596.8   | 688.9   | 1364.6  | 162.3   | 125.1   | 129.4   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

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