

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: STREETWORKS

Report Number: P192119

Luminaire Tested: **GAN-AF-01-LED-U-SLR-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192119  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-01-LED-U-SLR-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4426 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

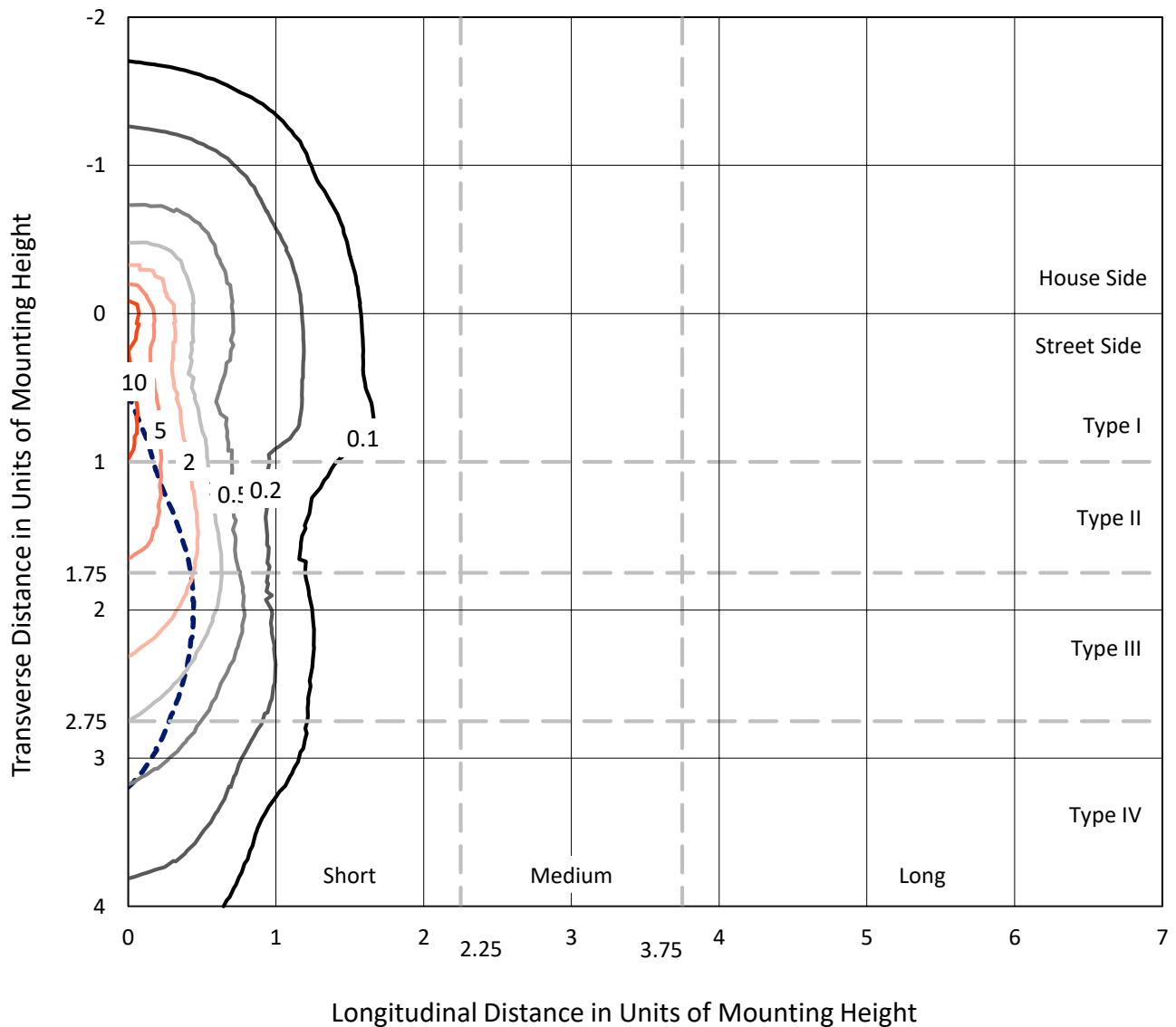
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

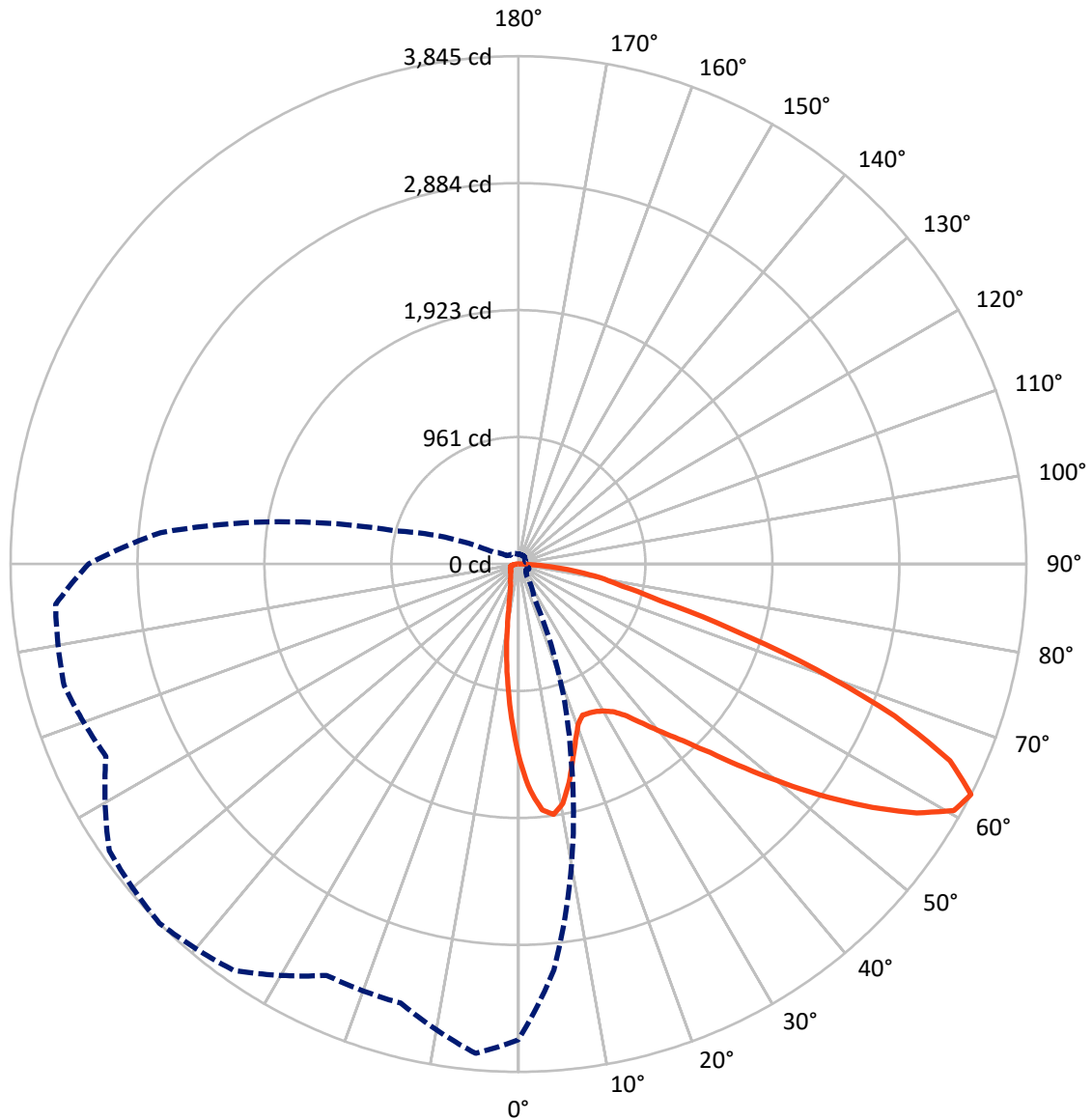
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 732.4    | 0.0    | 732.4  |
|                    | % Fixture | 16.5     | 0.0    | 16.5   |
| <b>Street Side</b> | Lumens    | 3693.6   | 0.0    | 3693.6 |
|                    | % Fixture | 83.5     | 0.0    | 83.5   |
| <b>Total</b>       | Lumens    | 4426.0   | 0.0    | 4426.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 108.9  | 2.5       |
| 10°-20°   | 199.6  | 4.5       |
| 20°-30°   | 291.0  | 6.6       |
| 30°-40°   | 448.2  | 10.1      |
| 40°-50°   | 659.7  | 14.9      |
| 50°-60°   | 967.6  | 21.9      |
| 60°-70°   | 1081.6 | 24.4      |
| 70°-80°   | 529.6  | 12.0      |
| 80°-90°   | 139.8  | 3.2       |
| 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°    | 4426.0 | 100.0     |
| 0°-180°   | 4426.0 | 100.0     |

**Coefficient of Utilization**



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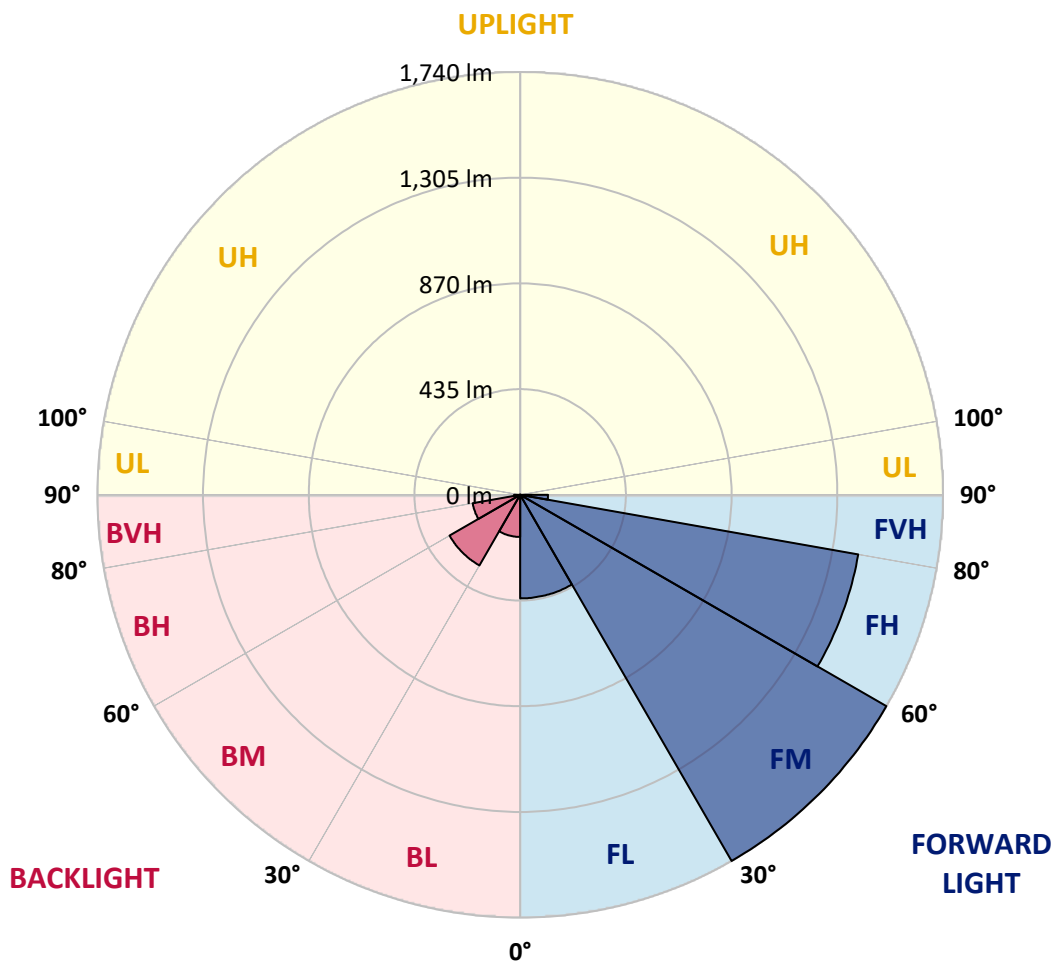
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 426.2  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 1739.9 | 39.3      |                         |      |         |
| FH   | (60°-80°)   | 1412.6 | 31.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 114.8  | 2.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 173.3  | 3.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 335.6  | 7.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 198.6  | 4.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 25.0   | 0.6       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 |
| 2.5°  | 1553.7 | 1522.1 | 1469.6 | 1414.8 | 1381.5 | 1342.5 | 1312.1 | 1285.4 | 1231.8 | 1221.4 | 1230.9 |
| 5°    | 1461.0 | 1397.5 | 1298.5 | 1198.8 | 1132.3 | 1061.0 | 1005.6 | 961.0  | 893.2  | 881.2  | 895.6  |
| 7.5°  | 1312.4 | 1236.5 | 1105.6 | 978.3  | 884.4  | 795.4  | 735.5  | 687.8  | 634.8  | 611.9  | 613.4  |
| 10°   | 1184.2 | 1098.5 | 943.8  | 805.3  | 728.4  | 668.4  | 618.0  | 569.1  | 515.3  | 480.0  | 470.3  |
| 12.5° | 1112.4 | 1013.8 | 835.5  | 711.9  | 640.6  | 577.4  | 523.1  | 470.8  | 413.4  | 377.4  | 367.1  |
| 15°   | 1100.0 | 992.9  | 794.9  | 652.1  | 562.8  | 482.7  | 418.7  | 360.3  | 301.2  | 272.0  | 265.9  |
| 17.5° | 1153.7 | 1030.4 | 781.7  | 598.8  | 489.5  | 390.7  | 312.2  | 247.0  | 198.8  | 184.2  | 183.0  |
| 20°   | 1256.9 | 1102.4 | 780.0  | 548.6  | 417.3  | 301.5  | 217.5  | 170.1  | 148.9  | 144.8  | 145.0  |
| 22.5° | 1401.7 | 1214.1 | 801.0  | 510.9  | 350.8  | 224.8  | 163.5  | 142.3  | 134.1  | 130.2  | 130.2  |
| 25°   | 1589.0 | 1367.9 | 849.1  | 483.4  | 293.2  | 179.6  | 144.3  | 131.6  | 123.8  | 121.2  | 121.7  |
| 27.5° | 1770.5 | 1517.5 | 905.1  | 461.8  | 255.5  | 163.0  | 136.7  | 125.3  | 118.5  | 115.8  | 117.0  |
| 30°   | 1912.1 | 1650.3 | 951.8  | 432.3  | 236.2  | 158.4  | 139.4  | 127.7  | 118.0  | 113.9  | 114.1  |
| 32.5° | 2029.4 | 1766.6 | 991.0  | 411.2  | 219.2  | 135.8  | 120.2  | 115.1  | 113.9  | 109.0  | 106.6  |
| 35°   | 2179.3 | 1893.4 | 1017.3 | 411.7  | 211.2  | 121.2  | 107.1  | 98.1   | 91.5   | 85.9   | 85.9   |
| 37.5° | 2354.9 | 2038.9 | 1045.2 | 417.3  | 208.3  | 112.6  | 102.4  | 93.4   | 87.3   | 82.0   | 81.0   |
| 40°   | 2528.6 | 2181.5 | 1070.8 | 422.6  | 206.6  | 107.5  | 98.8   | 90.5   | 84.9   | 79.6   | 78.1   |
| 42.5° | 2676.3 | 2298.7 | 1093.6 | 425.3  | 200.7  | 107.1  | 96.1   | 88.6   | 83.2   | 77.4   | 75.9   |
| 45°   | 2785.6 | 2397.0 | 1118.2 | 429.4  | 194.9  | 109.0  | 96.1   | 88.3   | 81.7   | 76.2   | 74.7   |
| 47.5° | 2883.1 | 2512.3 | 1159.3 | 429.4  | 187.8  | 105.4  | 99.3   | 88.6   | 81.5   | 75.7   | 74.5   |
| 50°   | 3013.8 | 2670.5 | 1237.2 | 419.5  | 177.9  | 101.5  | 104.6  | 87.6   | 79.3   | 74.7   | 73.2   |
| 52.5° | 3193.8 | 2873.2 | 1360.8 | 402.2  | 162.5  | 93.9   | 103.9  | 87.1   | 77.1   | 72.3   | 70.6   |
| 55°   | 3406.7 | 3090.2 | 1495.6 | 382.0  | 139.7  | 88.6   | 100.2  | 85.9   | 74.7   | 69.3   | 67.6   |
| 57.5° | 3572.9 | 3239.6 | 1590.5 | 350.8  | 119.7  | 85.6   | 88.8   | 84.7   | 71.8   | 66.2   | 64.7   |
| 60°   | 3639.1 | 3233.7 | 1616.5 | 309.2  | 110.0  | 83.2   | 77.6   | 94.9   | 69.3   | 63.7   | 62.0   |
| 62.5° | 3603.3 | 3084.4 | 1543.5 | 280.0  | 107.8  | 80.0   | 72.7   | 87.8   | 67.4   | 62.0   | 59.6   |
| 65°   | 3438.1 | 2819.6 | 1350.1 | 272.3  | 114.1  | 76.9   | 69.6   | 68.9   | 64.7   | 59.6   | 57.2   |
| 67.5° | 3078.3 | 2424.0 | 1081.0 | 273.0  | 122.1  | 73.7   | 66.4   | 63.0   | 61.1   | 56.9   | 54.7   |
| 70°   | 2507.2 | 1916.5 | 805.8  | 274.9  | 126.3  | 70.1   | 63.0   | 59.4   | 57.2   | 53.0   | 51.6   |
| 72.5° | 1843.5 | 1477.1 | 585.4  | 262.3  | 127.0  | 65.9   | 58.4   | 55.2   | 53.0   | 48.7   | 47.4   |
| 75°   | 1261.3 | 1129.9 | 406.1  | 217.3  | 110.7  | 60.1   | 53.3   | 50.4   | 48.9   | 43.6   | 42.8   |
| 77.5° | 921.4  | 848.2  | 259.8  | 161.3  | 85.4   | 52.8   | 47.0   | 44.8   | 43.8   | 38.0   | 37.0   |
| 80°   | 739.4  | 671.0  | 162.5  | 110.5  | 62.5   | 44.3   | 39.4   | 38.2   | 37.2   | 31.4   | 30.7   |
| 82.5° | 512.9  | 449.4  | 104.4  | 71.8   | 47.0   | 34.3   | 31.1   | 30.7   | 29.2   | 23.8   | 23.1   |
| 85°   | 270.6  | 244.0  | 66.2   | 48.9   | 34.1   | 23.6   | 21.7   | 21.7   | 20.9   | 15.8   | 15.3   |
| 87.5° | 34.5   | 56.2   | 33.6   | 25.5   | 18.7   | 10.5   | 10.5   | 10.2   | 10.9   | 9.0    | 7.8    |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 |
| 2.5°  | 1208.5 | 1220.2 | 1209.0 | 1209.7 | 1222.1 | 1259.1 | 1275.9 | 1289.8 | 1304.6 | 1314.3 | 1318.7 |
| 5°    | 875.9  | 903.1  | 912.4  | 931.9  | 960.6  | 1007.8 | 1026.5 | 1040.1 | 1049.1 | 1054.5 | 1056.7 |
| 7.5°  | 599.0  | 615.6  | 634.0  | 665.4  | 728.0  | 755.7  | 768.1  | 764.9  | 754.7  | 751.1  | 747.4  |
| 10°   | 451.6  | 445.0  | 441.6  | 458.9  | 509.5  | 537.5  | 546.2  | 537.7  | 532.1  | 533.3  | 539.4  |
| 12.5° | 349.9  | 338.4  | 324.6  | 322.6  | 356.0  | 381.0  | 386.6  | 387.1  | 397.3  | 406.3  | 419.7  |
| 15°   | 255.0  | 253.8  | 247.0  | 242.8  | 261.8  | 282.2  | 284.7  | 289.0  | 298.3  | 304.9  | 316.5  |
| 17.5° | 179.8  | 186.4  | 191.7  | 194.4  | 208.8  | 223.4  | 220.7  | 218.5  | 216.8  | 216.8  | 222.4  |
| 20°   | 145.0  | 149.4  | 156.2  | 164.0  | 178.6  | 188.8  | 182.2  | 173.5  | 167.1  | 165.2  | 165.9  |
| 22.5° | 130.7  | 134.1  | 138.0  | 144.8  | 157.9  | 165.0  | 157.9  | 151.6  | 145.3  | 143.1  | 142.3  |
| 25°   | 123.4  | 127.7  | 131.4  | 136.5  | 146.2  | 151.1  | 144.3  | 139.7  | 135.8  | 133.1  | 131.1  |
| 27.5° | 119.2  | 123.1  | 124.1  | 126.5  | 134.8  | 139.2  | 135.8  | 133.8  | 131.4  | 129.0  | 126.5  |
| 30°   | 114.8  | 114.1  | 112.4  | 112.6  | 119.2  | 123.6  | 123.4  | 123.8  | 123.6  | 122.9  | 122.4  |
| 32.5° | 104.9  | 103.4  | 101.9  | 103.4  | 109.5  | 113.4  | 113.6  | 114.6  | 114.6  | 114.4  | 116.3  |
| 35°   | 87.3   | 90.0   | 91.7   | 96.1   | 103.4  | 106.8  | 105.4  | 102.9  | 98.5   | 95.9   | 95.6   |
| 37.5° | 80.8   | 81.3   | 84.2   | 90.3   | 98.3   | 101.5  | 99.3   | 93.7   | 90.8   | 90.3   | 91.0   |
| 40°   | 77.6   | 78.1   | 79.8   | 85.4   | 93.4   | 96.6   | 94.6   | 90.5   | 87.8   | 87.6   | 88.8   |
| 42.5° | 75.4   | 75.9   | 76.9   | 80.8   | 87.3   | 91.2   | 91.5   | 88.6   | 85.4   | 85.6   | 86.9   |
| 45°   | 74.2   | 74.5   | 74.2   | 76.2   | 82.2   | 86.9   | 88.8   | 86.9   | 84.2   | 84.7   | 86.1   |
| 47.5° | 74.0   | 73.2   | 72.3   | 72.7   | 79.1   | 83.7   | 86.1   | 85.4   | 84.2   | 84.7   | 85.9   |
| 50°   | 73.0   | 71.3   | 70.1   | 69.8   | 76.2   | 81.0   | 83.2   | 83.2   | 83.7   | 84.7   | 85.9   |
| 52.5° | 70.1   | 68.1   | 68.1   | 67.4   | 74.2   | 78.8   | 80.3   | 80.5   | 81.3   | 83.0   | 84.7   |
| 55°   | 66.4   | 65.7   | 66.4   | 65.2   | 72.7   | 77.1   | 77.9   | 78.3   | 78.8   | 80.3   | 82.7   |
| 57.5° | 63.3   | 62.3   | 64.0   | 63.5   | 71.5   | 75.4   | 75.4   | 76.4   | 76.4   | 78.3   | 80.3   |
| 60°   | 61.6   | 59.6   | 60.3   | 60.8   | 69.8   | 74.0   | 73.5   | 74.5   | 74.9   | 76.6   | 78.1   |
| 62.5° | 59.4   | 57.7   | 57.7   | 58.9   | 67.9   | 71.8   | 71.5   | 72.3   | 74.2   | 74.7   | 76.2   |
| 65°   | 56.7   | 56.0   | 55.2   | 56.7   | 65.9   | 69.3   | 69.6   | 70.6   | 72.3   | 72.7   | 74.0   |
| 67.5° | 54.0   | 54.3   | 52.8   | 54.3   | 64.2   | 66.9   | 66.9   | 68.9   | 69.6   | 70.6   | 71.8   |
| 70°   | 51.1   | 51.3   | 50.1   | 51.8   | 63.0   | 64.2   | 64.0   | 66.7   | 67.2   | 67.9   | 69.1   |
| 72.5° | 47.4   | 47.4   | 47.0   | 49.4   | 61.1   | 61.6   | 61.1   | 63.3   | 63.5   | 64.2   | 64.7   |
| 75°   | 43.6   | 43.6   | 43.1   | 46.5   | 59.9   | 58.6   | 57.2   | 58.9   | 59.4   | 59.9   | 59.9   |
| 77.5° | 38.4   | 38.9   | 38.9   | 43.1   | 55.7   | 57.4   | 52.6   | 53.5   | 54.3   | 54.5   | 53.8   |
| 80°   | 32.1   | 33.3   | 33.8   | 39.2   | 46.7   | 53.0   | 47.0   | 47.7   | 47.9   | 47.9   | 47.0   |
| 82.5° | 24.6   | 26.8   | 28.0   | 33.8   | 35.8   | 44.5   | 40.9   | 41.6   | 40.9   | 39.4   | 38.9   |
| 85°   | 17.0   | 20.0   | 21.4   | 25.8   | 27.0   | 34.3   | 34.1   | 34.1   | 32.6   | 30.7   | 30.4   |
| 87.5° | 9.2    | 10.9   | 11.9   | 15.3   | 18.5   | 23.1   | 25.1   | 24.3   | 23.1   | 21.9   | 22.1   |
| 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):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 |
| 2.5°  | 1341.6 | 1374.7 | 1427.5 | 1467.8 | 1508.5 | 1547.7 | 1590.0 | 1622.3 | 1649.8 | 1660.5 | 1693.1 |
| 5°    | 1078.8 | 1120.2 | 1170.0 | 1260.1 | 1323.8 | 1394.1 | 1475.4 | 1582.9 | 1624.3 | 1681.5 | 1775.1 |
| 7.5°  | 762.8  | 800.2  | 880.5  | 953.3  | 1043.5 | 1143.0 | 1252.8 | 1401.2 | 1455.4 | 1547.2 | 1699.7 |
| 10°   | 569.6  | 613.1  | 677.6  | 738.9  | 818.5  | 920.2  | 1046.2 | 1212.1 | 1278.1 | 1377.6 | 1553.2 |
| 12.5° | 458.9  | 510.2  | 578.6  | 636.2  | 697.8  | 769.6  | 891.9  | 1073.9 | 1162.3 | 1249.4 | 1427.0 |
| 15°   | 352.5  | 406.3  | 469.8  | 543.1  | 610.9  | 688.3  | 816.5  | 1015.5 | 1117.2 | 1208.0 | 1359.6 |
| 17.5° | 244.0  | 290.0  | 370.1  | 446.5  | 533.3  | 632.3  | 795.6  | 1028.0 | 1149.4 | 1254.0 | 1371.3 |
| 20°   | 173.0  | 199.3  | 265.0  | 353.5  | 461.8  | 586.1  | 791.7  | 1093.2 | 1251.1 | 1370.5 | 1446.2 |
| 22.5° | 145.5  | 155.2  | 193.4  | 274.7  | 399.7  | 551.6  | 805.3  | 1184.6 | 1388.3 | 1540.8 | 1565.7 |
| 25°   | 132.6  | 138.4  | 158.4  | 215.6  | 344.5  | 526.5  | 851.3  | 1320.9 | 1558.1 | 1711.2 | 1706.8 |
| 27.5° | 125.5  | 131.6  | 144.8  | 182.0  | 302.9  | 510.9  | 897.3  | 1482.4 | 1752.3 | 1896.1 | 1841.6 |
| 30°   | 123.4  | 131.6  | 145.5  | 171.5  | 273.2  | 486.4  | 935.0  | 1624.3 | 1901.7 | 2020.9 | 1902.9 |
| 32.5° | 121.7  | 122.9  | 129.2  | 147.9  | 245.0  | 457.7  | 960.6  | 1751.5 | 2047.9 | 2139.6 | 1991.2 |
| 35°   | 98.3   | 104.4  | 114.6  | 132.6  | 228.5  | 440.4  | 960.6  | 1861.3 | 2191.9 | 2259.6 | 2075.4 |
| 37.5° | 94.6   | 100.0  | 109.0  | 124.3  | 219.2  | 431.9  | 941.3  | 1967.1 | 2339.1 | 2395.6 | 2144.7 |
| 40°   | 92.7   | 97.1   | 105.6  | 118.0  | 215.3  | 422.1  | 913.4  | 2060.5 | 2482.9 | 2531.8 | 2209.4 |
| 42.5° | 91.2   | 95.1   | 103.2  | 114.1  | 210.2  | 411.4  | 890.7  | 2135.5 | 2607.7 | 2648.1 | 2271.2 |
| 45°   | 90.5   | 94.6   | 103.4  | 116.1  | 200.0  | 397.3  | 883.2  | 2216.5 | 2710.4 | 2745.2 | 2338.1 |
| 47.5° | 90.5   | 95.4   | 104.6  | 120.2  | 187.8  | 382.7  | 906.8  | 2323.3 | 2807.5 | 2824.5 | 2417.0 |
| 50°   | 89.8   | 95.1   | 108.0  | 116.1  | 170.1  | 364.2  | 962.3  | 2457.8 | 2912.6 | 2914.5 | 2516.7 |
| 52.5° | 88.3   | 94.6   | 116.3  | 113.6  | 149.6  | 339.9  | 1037.2 | 2630.6 | 3068.1 | 3079.7 | 2672.9 |
| 55°   | 86.6   | 93.9   | 114.1  | 108.0  | 132.8  | 310.9  | 1098.5 | 2840.6 | 3286.5 | 3318.9 | 2902.6 |
| 57.5° | 84.4   | 92.9   | 110.5  | 100.2  | 121.9  | 273.7  | 1120.7 | 2994.3 | 3439.1 | 3520.4 | 3161.5 |
| 60°   | 82.5   | 92.2   | 99.8   | 95.6   | 115.1  | 242.3  | 1077.8 | 2963.9 | 3428.6 | 3603.8 | 3390.9 |
| 62.5° | 80.5   | 92.9   | 91.0   | 92.7   | 111.9  | 222.1  | 965.9  | 2720.4 | 3255.2 | 3517.7 | 3561.0 |
| 65°   | 78.3   | 86.4   | 85.9   | 90.3   | 111.2  | 214.1  | 800.7  | 2355.2 | 2919.9 | 3245.4 | 3601.1 |
| 67.5° | 75.4   | 79.8   | 82.2   | 87.1   | 113.6  | 207.1  | 646.2  | 1942.8 | 2454.0 | 2837.4 | 3391.9 |
| 70°   | 72.3   | 75.9   | 78.6   | 83.2   | 112.2  | 203.9  | 537.5  | 1532.1 | 1947.2 | 2325.5 | 2979.0 |
| 72.5° | 68.1   | 71.3   | 73.7   | 78.1   | 110.7  | 202.2  | 454.0  | 1233.8 | 1453.7 | 1727.5 | 2422.1 |
| 75°   | 63.3   | 66.2   | 67.9   | 72.3   | 106.1  | 185.2  | 356.9  | 1044.0 | 1087.8 | 1201.7 | 1929.2 |
| 77.5° | 57.7   | 59.9   | 61.3   | 66.2   | 93.9   | 154.0  | 258.1  | 805.3  | 844.7  | 872.5  | 1479.0 |
| 80°   | 51.1   | 53.3   | 54.0   | 58.6   | 77.9   | 120.4  | 168.4  | 594.9  | 631.9  | 638.2  | 965.9  |
| 82.5° | 43.6   | 45.7   | 45.7   | 50.1   | 63.7   | 86.6   | 110.5  | 407.5  | 414.8  | 436.2  | 682.7  |
| 85°   | 35.0   | 36.7   | 36.7   | 38.9   | 49.4   | 64.7   | 75.9   | 204.6  | 202.4  | 231.1  | 591.5  |
| 87.5° | 25.1   | 26.3   | 27.5   | 28.0   | 35.3   | 42.8   | 45.7   | 62.3   | 41.1   | 47.2   | 379.8  |
| 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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| 0°    | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 | 1495.3 |
| 2.5°  | 1717.7 | 1731.6 | 1717.5 | 1707.3 | 1663.2 | 1627.0 | 1578.6 | 1553.7 |
| 5°    | 1846.4 | 1881.7 | 1869.8 | 1827.0 | 1735.0 | 1631.6 | 1514.1 | 1461.0 |
| 7.5°  | 1830.9 | 1912.8 | 1914.8 | 1834.7 | 1699.2 | 1546.9 | 1387.8 | 1312.4 |
| 10°   | 1709.7 | 1814.6 | 1844.5 | 1766.9 | 1623.1 | 1452.8 | 1270.3 | 1184.2 |
| 12.5° | 1574.4 | 1677.1 | 1700.0 | 1673.2 | 1553.0 | 1382.0 | 1196.8 | 1112.4 |
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| 17.5° | 1396.3 | 1391.2 | 1399.0 | 1439.6 | 1451.1 | 1386.1 | 1255.9 | 1153.7 |
| 20°   | 1372.0 | 1293.9 | 1291.9 | 1347.9 | 1431.4 | 1463.2 | 1379.5 | 1256.9 |
| 22.5° | 1385.4 | 1258.9 | 1242.8 | 1309.2 | 1441.8 | 1574.4 | 1541.6 | 1401.7 |
| 25°   | 1431.6 | 1261.8 | 1248.9 | 1313.1 | 1479.8 | 1692.9 | 1716.5 | 1589.0 |
| 27.5° | 1504.3 | 1280.3 | 1263.2 | 1329.2 | 1530.1 | 1792.4 | 1888.8 | 1770.5 |
| 30°   | 1573.4 | 1312.4 | 1291.2 | 1360.8 | 1576.1 | 1831.8 | 1994.4 | 1912.1 |
| 32.5° | 1657.4 | 1372.5 | 1335.2 | 1418.9 | 1633.1 | 1894.6 | 2088.5 | 2029.4 |
| 35°   | 1739.6 | 1458.1 | 1411.9 | 1508.7 | 1696.6 | 1972.7 | 2196.1 | 2179.3 |
| 37.5° | 1829.9 | 1570.0 | 1531.8 | 1624.8 | 1783.4 | 2046.4 | 2333.3 | 2354.9 |
| 40°   | 1926.2 | 1718.5 | 1673.2 | 1794.1 | 1918.2 | 2138.9 | 2476.6 | 2528.6 |
| 42.5° | 2023.3 | 1883.2 | 1829.2 | 1951.8 | 2066.4 | 2230.1 | 2599.2 | 2676.3 |
| 45°   | 2134.5 | 2062.0 | 2036.4 | 2169.0 | 2208.7 | 2317.0 | 2689.7 | 2785.6 |
| 47.5° | 2263.9 | 2264.9 | 2306.0 | 2359.1 | 2352.3 | 2415.3 | 2780.7 | 2883.1 |
| 50°   | 2415.0 | 2518.2 | 2608.9 | 2644.2 | 2500.2 | 2520.9 | 2907.0 | 3013.8 |
| 52.5° | 2596.5 | 2821.1 | 2933.5 | 2910.4 | 2659.5 | 2649.8 | 3107.0 | 3193.8 |
| 55°   | 2823.5 | 3141.8 | 3253.4 | 3236.9 | 2842.8 | 2825.5 | 3356.1 | 3406.7 |
| 57.5° | 3086.3 | 3452.5 | 3555.1 | 3480.7 | 3062.7 | 3018.2 | 3562.2 | 3572.9 |
| 60°   | 3317.2 | 3698.7 | 3788.7 | 3706.2 | 3284.6 | 3223.3 | 3690.9 | 3639.1 |
| 62.5° | 3445.7 | 3782.1 | 3845.4 | 3756.6 | 3436.7 | 3441.8 | 3719.1 | 3603.3 |
| 65°   | 3388.2 | 3571.2 | 3591.6 | 3584.3 | 3397.5 | 3568.5 | 3617.7 | 3438.1 |
| 67.5° | 3073.9 | 3037.9 | 3072.2 | 3119.6 | 3061.7 | 3401.6 | 3336.7 | 3078.3 |
| 70°   | 2520.1 | 2322.3 | 2390.7 | 2422.6 | 2448.8 | 2927.2 | 2896.0 | 2507.2 |
| 72.5° | 1899.2 | 1627.0 | 1681.0 | 1674.4 | 1796.1 | 2347.9 | 2252.3 | 1843.5 |
| 75°   | 1345.7 | 1103.1 | 1109.9 | 1107.3 | 1253.3 | 1836.9 | 1630.9 | 1261.3 |
| 77.5° | 941.6  | 799.3  | 802.9  | 818.0  | 842.6  | 1385.4 | 1165.2 | 921.4  |
| 80°   | 647.4  | 606.6  | 626.7  | 628.0  | 583.9  | 930.6  | 860.8  | 739.4  |
| 82.5° | 482.2  | 421.6  | 416.8  | 423.8  | 457.7  | 754.0  | 661.5  | 512.9  |
| 85°   | 394.9  | 249.6  | 200.7  | 251.6  | 405.6  | 746.7  | 439.4  | 270.6  |
| 87.5° | 222.4  | 118.5  | 53.5   | 99.3   | 161.8  | 494.4  | 127.0  | 34.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)