

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: P191329

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191329  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA 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: 5603.7 lumens  
Efficiency: N/A  
Efficacy: 95.0 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

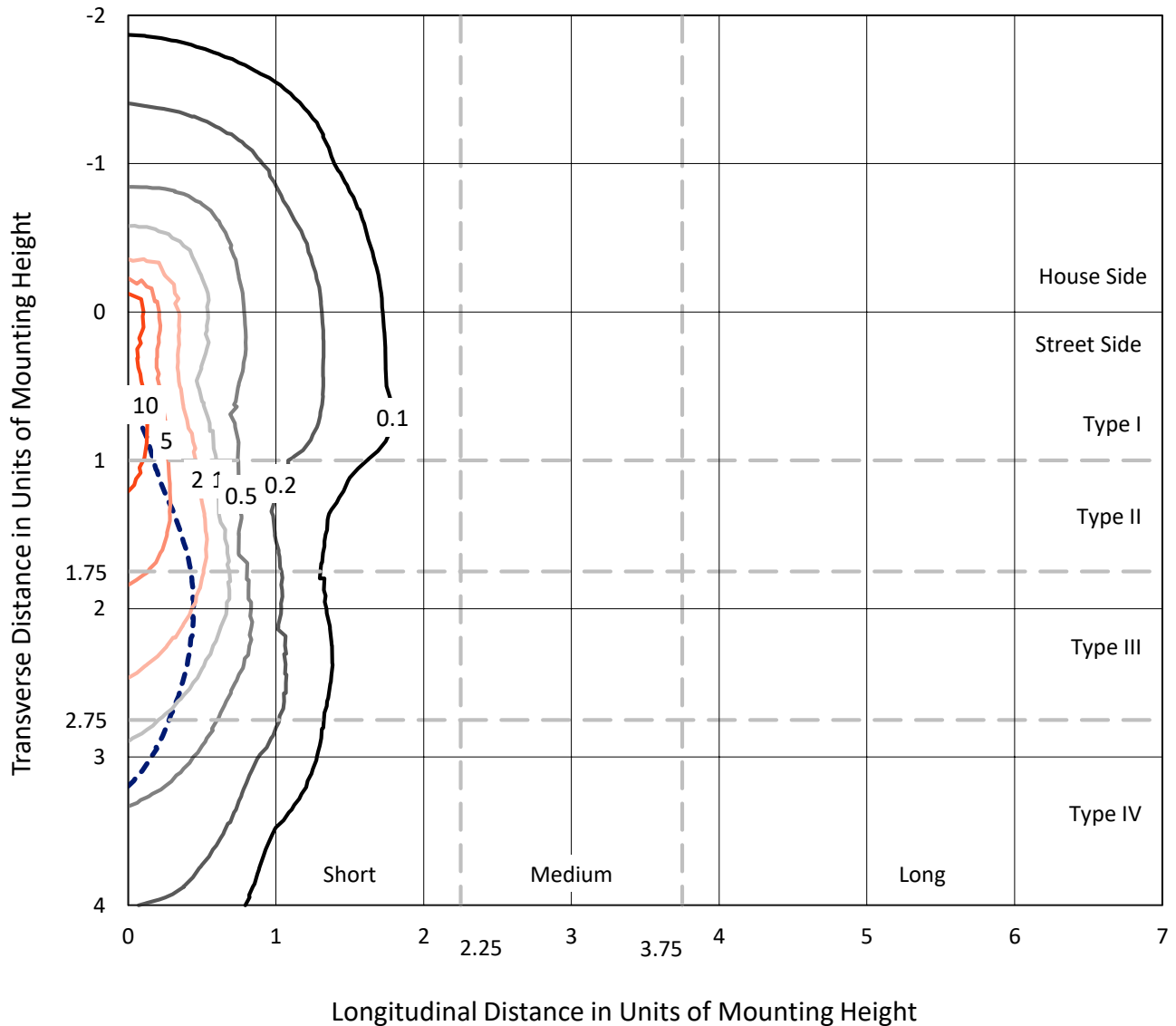
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

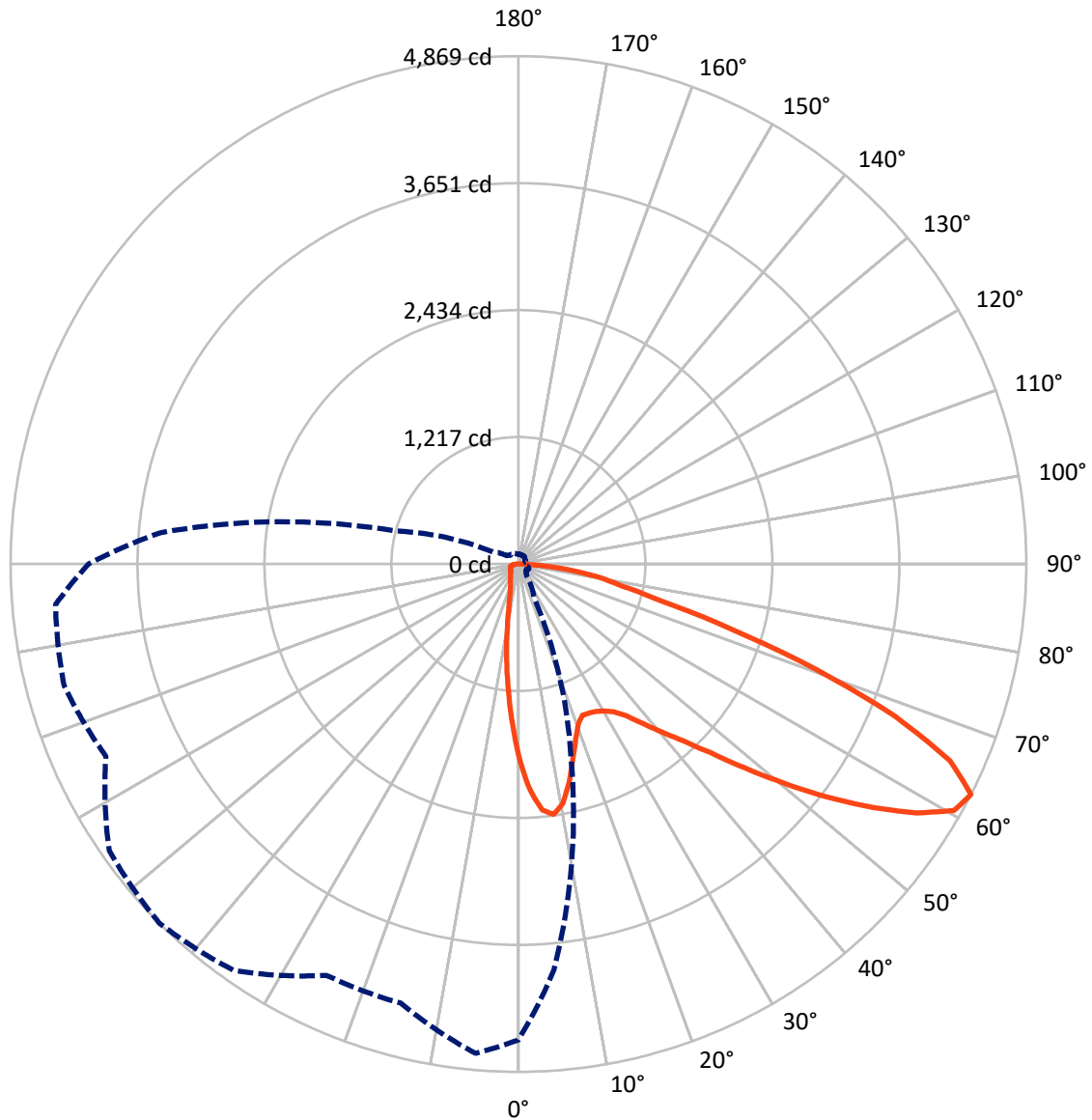


Based on 10 foot mounting height. Maximum calculated value = 18.9 fc  
 Type IV - Short - Non-Cutoff

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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    | 927.3    | 0.0    | 927.3  |
|                    | % Fixture | 16.5     | 0.0    | 16.5   |
| <b>Street Side</b> | Lumens    | 4676.4   | 0.0    | 4676.4 |
|                    | % Fixture | 83.5     | 0.0    | 83.5   |
| <b>Total</b>       | Lumens    | 5603.7   | 0.0    | 5603.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 137.8  | 2.5       |
| 10°-20°   | 252.7  | 4.5       |
| 20°-30°   | 368.5  | 6.6       |
| 30°-40°   | 567.5  | 10.1      |
| 40°-50°   | 835.2  | 14.9      |
| 50°-60°   | 1225.1 | 21.9      |
| 60°-70°   | 1369.4 | 24.4      |
| 70°-80°   | 670.5  | 12.0      |
| 80°-90°   | 177.0  | 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°    | 5603.7 | 100.0     |
| 0°-180°   | 5603.7 | 100.0     |

**Coefficient of Utilization**



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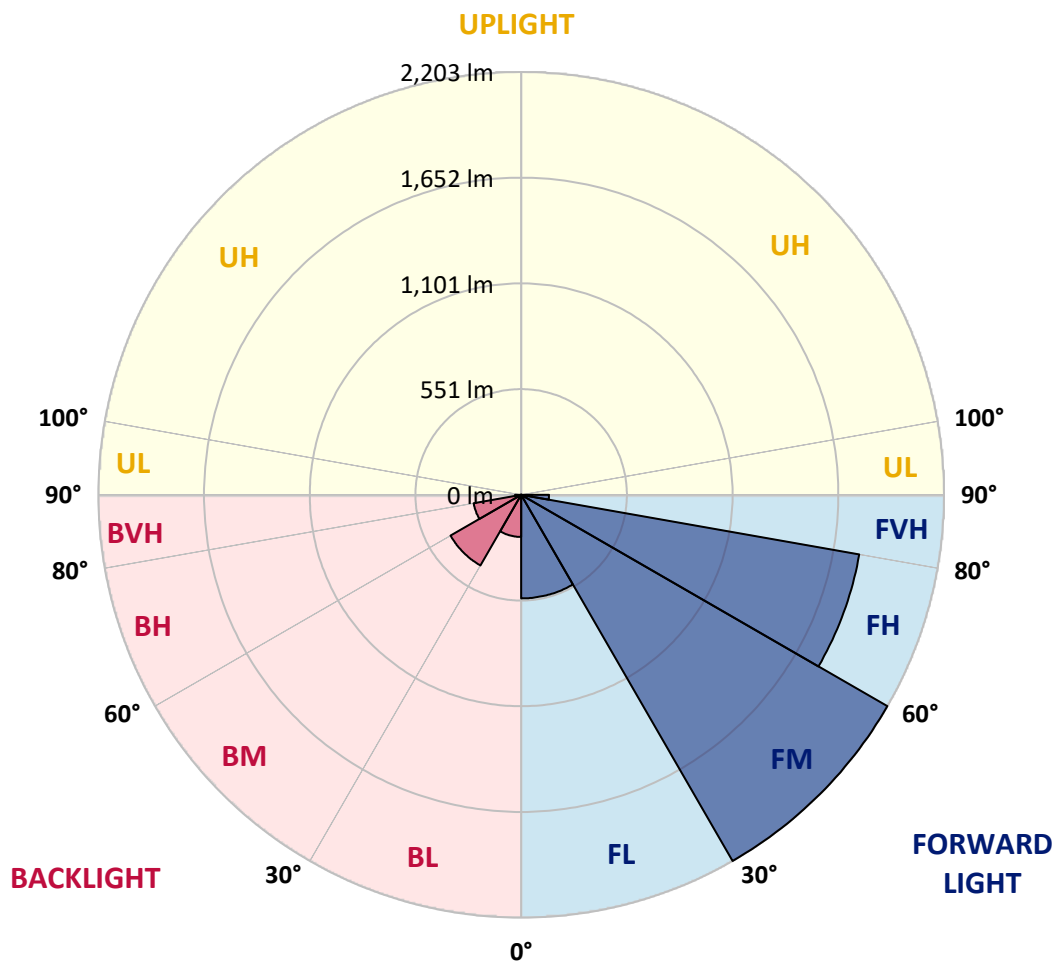
CATALOG NUMBER: GAN-AF-01-LED-U-SLR

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 539.6  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 2202.9 | 39.3      |                         |      |         |
| FH   | (60°-80°)   | 1788.5 | 31.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 145.4  | 2.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 219.4  | 3.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 424.9  | 7.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 251.4  | 4.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 31.6   | 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°    | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 |
| 2.5°  | 1967.1 | 1927.1 | 1860.5 | 1791.3 | 1749.0 | 1699.8 | 1661.3 | 1627.4 | 1559.6 | 1546.4 | 1558.4 |
| 5°    | 1849.8 | 1769.4 | 1644.0 | 1517.8 | 1433.7 | 1343.3 | 1273.2 | 1216.8 | 1130.9 | 1115.7 | 1133.9 |
| 7.5°  | 1661.6 | 1565.5 | 1399.7 | 1238.7 | 1119.7 | 1007.0 | 931.2  | 870.8  | 803.7  | 774.7  | 776.6  |
| 10°   | 1499.2 | 1390.8 | 1194.9 | 1019.7 | 922.3  | 846.2  | 782.5  | 720.6  | 652.4  | 607.7  | 595.5  |
| 12.5° | 1408.4 | 1283.6 | 1057.8 | 901.3  | 811.1  | 731.0  | 662.3  | 596.1  | 523.3  | 477.8  | 464.8  |
| 15°   | 1392.6 | 1257.1 | 1006.4 | 825.5  | 712.5  | 611.1  | 530.1  | 456.2  | 381.4  | 344.4  | 336.7  |
| 17.5° | 1460.8 | 1304.6 | 989.7  | 758.1  | 619.8  | 494.7  | 395.3  | 312.7  | 251.6  | 233.2  | 231.7  |
| 20°   | 1591.4 | 1395.7 | 987.6  | 694.7  | 528.3  | 381.7  | 275.4  | 215.3  | 188.5  | 183.3  | 183.6  |
| 22.5° | 1774.6 | 1537.2 | 1014.1 | 646.9  | 444.2  | 284.6  | 207.0  | 180.2  | 169.7  | 164.8  | 164.8  |
| 25°   | 2011.8 | 1731.9 | 1075.1 | 612.1  | 371.2  | 227.3  | 182.7  | 166.6  | 156.8  | 153.4  | 154.1  |
| 27.5° | 2241.6 | 1921.3 | 1145.9 | 584.7  | 323.5  | 206.4  | 173.1  | 158.7  | 150.1  | 146.6  | 148.1  |
| 30°   | 2420.9 | 2089.5 | 1205.0 | 547.4  | 299.1  | 200.5  | 176.5  | 161.7  | 149.4  | 144.1  | 144.4  |
| 32.5° | 2569.4 | 2236.7 | 1254.6 | 520.6  | 277.5  | 171.9  | 152.2  | 145.7  | 144.1  | 138.0  | 134.9  |
| 35°   | 2759.1 | 2397.2 | 1287.9 | 521.2  | 267.4  | 153.4  | 135.5  | 124.2  | 115.8  | 108.7  | 108.7  |
| 37.5° | 2981.6 | 2581.4 | 1323.4 | 528.3  | 263.7  | 142.6  | 129.7  | 118.3  | 110.6  | 103.8  | 102.6  |
| 40°   | 3201.5 | 2762.0 | 1355.7 | 535.1  | 261.6  | 136.2  | 125.1  | 114.6  | 107.5  | 100.8  | 98.9   |
| 42.5° | 3388.5 | 2910.4 | 1384.7 | 538.5  | 254.1  | 135.5  | 121.6  | 112.1  | 105.4  | 98.0   | 96.2   |
| 45°   | 3526.8 | 3034.9 | 1415.8 | 543.7  | 246.7  | 138.0  | 121.6  | 111.8  | 103.5  | 96.5   | 94.5   |
| 47.5° | 3650.3 | 3180.9 | 1467.8 | 543.7  | 237.8  | 133.4  | 125.7  | 112.1  | 103.2  | 95.9   | 94.2   |
| 50°   | 3815.7 | 3381.1 | 1566.4 | 531.1  | 225.2  | 128.5  | 132.5  | 110.9  | 100.5  | 94.5   | 92.7   |
| 52.5° | 4043.7 | 3637.7 | 1722.9 | 509.2  | 205.8  | 118.9  | 131.6  | 110.3  | 97.7   | 91.5   | 89.3   |
| 55°   | 4313.3 | 3912.5 | 1893.6 | 483.7  | 176.9  | 112.1  | 126.9  | 108.7  | 94.5   | 87.8   | 85.6   |
| 57.5° | 4523.6 | 4101.6 | 2013.7 | 444.2  | 151.6  | 108.4  | 112.4  | 107.2  | 90.8   | 83.8   | 81.9   |
| 60°   | 4607.4 | 4094.3 | 2046.6 | 391.5  | 139.2  | 105.4  | 98.3   | 120.1  | 87.8   | 80.7   | 78.6   |
| 62.5° | 4562.2 | 3905.1 | 1954.2 | 354.6  | 136.5  | 101.4  | 92.1   | 111.2  | 85.3   | 78.6   | 75.5   |
| 65°   | 4353.0 | 3569.9 | 1709.4 | 344.7  | 144.4  | 97.4   | 88.1   | 87.2   | 81.9   | 75.5   | 72.4   |
| 67.5° | 3897.3 | 3069.1 | 1368.6 | 345.7  | 154.7  | 93.3   | 84.1   | 79.8   | 77.3   | 72.1   | 69.4   |
| 70°   | 3174.4 | 2426.4 | 1020.3 | 348.1  | 159.9  | 88.7   | 79.8   | 75.2   | 72.4   | 67.1   | 65.3   |
| 72.5° | 2334.1 | 1870.2 | 741.1  | 332.0  | 160.8  | 83.5   | 74.0   | 70.0   | 67.1   | 61.6   | 60.0   |
| 75°   | 1596.9 | 1430.6 | 514.1  | 275.1  | 140.1  | 76.1   | 67.4   | 63.7   | 61.9   | 55.1   | 54.2   |
| 77.5° | 1166.6 | 1073.8 | 329.0  | 204.3  | 108.1  | 66.8   | 59.4   | 56.7   | 55.4   | 48.1   | 46.9   |
| 80°   | 936.1  | 849.6  | 205.8  | 139.8  | 79.2   | 56.1   | 49.9   | 48.4   | 47.2   | 39.7   | 38.8   |
| 82.5° | 649.4  | 569.0  | 132.2  | 90.8   | 59.4   | 43.5   | 39.4   | 38.8   | 36.9   | 30.2   | 29.3   |
| 85°   | 342.6  | 308.9  | 83.8   | 61.9   | 43.2   | 29.9   | 27.4   | 27.4   | 26.5   | 20.0   | 19.4   |
| 87.5° | 43.8   | 71.2   | 42.6   | 32.3   | 23.7   | 13.2   | 13.2   | 12.9   | 13.9   | 11.4   | 9.8    |
| 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°    | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 |
| 2.5°  | 1530.0 | 1544.9 | 1530.6 | 1531.6 | 1547.3 | 1594.2 | 1615.3 | 1632.9 | 1651.8 | 1664.0 | 1669.6 |
| 5°    | 1109.0 | 1143.5 | 1155.1 | 1179.8 | 1216.2 | 1275.9 | 1299.7 | 1316.8 | 1328.3 | 1335.1 | 1337.8 |
| 7.5°  | 758.4  | 779.4  | 802.8  | 842.5  | 921.7  | 956.8  | 972.5  | 968.5  | 955.5  | 950.9  | 946.3  |
| 10°   | 571.7  | 563.4  | 559.1  | 580.9  | 645.1  | 680.5  | 691.5  | 680.8  | 673.7  | 675.2  | 682.9  |
| 12.5° | 442.9  | 428.5  | 410.9  | 408.5  | 450.7  | 482.4  | 489.5  | 490.1  | 503.1  | 514.4  | 531.4  |
| 15°   | 322.8  | 321.3  | 312.7  | 307.4  | 331.4  | 357.3  | 360.4  | 365.9  | 377.7  | 386.0  | 400.8  |
| 17.5° | 227.6  | 236.0  | 242.7  | 246.1  | 264.3  | 282.7  | 279.4  | 276.6  | 274.5  | 274.5  | 281.5  |
| 20°   | 183.6  | 189.1  | 197.7  | 207.7  | 226.1  | 239.1  | 230.7  | 219.6  | 211.6  | 209.2  | 210.1  |
| 22.5° | 165.4  | 169.7  | 174.6  | 183.3  | 199.9  | 208.9  | 199.9  | 191.9  | 183.9  | 181.2  | 180.2  |
| 25°   | 156.2  | 161.7  | 166.3  | 172.8  | 185.2  | 191.3  | 182.7  | 176.9  | 171.9  | 168.5  | 166.0  |
| 27.5° | 151.0  | 155.9  | 157.1  | 160.2  | 170.6  | 176.2  | 171.9  | 169.4  | 166.3  | 163.3  | 160.2  |
| 30°   | 145.4  | 144.4  | 142.3  | 142.6  | 151.0  | 156.5  | 156.2  | 156.8  | 156.5  | 155.6  | 155.0  |
| 32.5° | 132.8  | 130.9  | 129.1  | 130.9  | 138.6  | 143.5  | 143.8  | 145.1  | 145.1  | 144.7  | 147.2  |
| 35°   | 110.6  | 114.0  | 116.1  | 121.6  | 130.9  | 135.2  | 133.4  | 130.3  | 124.8  | 121.3  | 121.0  |
| 37.5° | 102.3  | 102.9  | 106.6  | 114.3  | 124.5  | 128.5  | 125.7  | 118.6  | 114.9  | 114.3  | 115.2  |
| 40°   | 98.3   | 98.9   | 101.1  | 108.1  | 118.3  | 122.2  | 119.8  | 114.6  | 111.2  | 110.9  | 112.4  |
| 42.5° | 95.5   | 96.2   | 97.4   | 102.3  | 110.6  | 115.5  | 115.8  | 112.1  | 108.1  | 108.4  | 110.0  |
| 45°   | 93.9   | 94.2   | 93.9   | 96.5   | 104.1  | 110.0  | 112.4  | 110.0  | 106.6  | 107.2  | 109.0  |
| 47.5° | 93.6   | 92.7   | 91.5   | 92.1   | 100.1  | 106.0  | 109.0  | 108.1  | 106.6  | 107.2  | 108.7  |
| 50°   | 92.4   | 90.2   | 88.7   | 88.4   | 96.5   | 102.6  | 105.4  | 105.4  | 106.0  | 107.2  | 108.7  |
| 52.5° | 88.7   | 86.2   | 86.2   | 85.3   | 93.9   | 99.8   | 101.7  | 102.0  | 102.9  | 105.1  | 107.2  |
| 55°   | 84.1   | 83.2   | 84.1   | 82.6   | 92.1   | 97.7   | 98.6   | 99.2   | 99.8   | 101.7  | 104.8  |
| 57.5° | 80.1   | 78.9   | 81.0   | 80.4   | 90.5   | 95.5   | 95.5   | 96.8   | 96.8   | 99.2   | 101.7  |
| 60°   | 77.9   | 75.5   | 76.4   | 77.0   | 88.4   | 93.6   | 93.0   | 94.2   | 94.8   | 97.1   | 98.9   |
| 62.5° | 75.2   | 73.0   | 73.0   | 74.6   | 85.9   | 90.8   | 90.5   | 91.5   | 93.9   | 94.5   | 96.5   |
| 65°   | 71.8   | 70.9   | 70.0   | 71.8   | 83.5   | 87.8   | 88.1   | 89.3   | 91.5   | 92.1   | 93.6   |
| 67.5° | 68.4   | 68.7   | 66.8   | 68.7   | 81.3   | 84.7   | 84.7   | 87.2   | 88.1   | 89.3   | 90.8   |
| 70°   | 64.7   | 65.0   | 63.4   | 65.6   | 79.8   | 81.3   | 81.0   | 84.4   | 85.0   | 85.9   | 87.5   |
| 72.5° | 60.0   | 60.0   | 59.4   | 62.5   | 77.3   | 77.9   | 77.3   | 80.1   | 80.4   | 81.3   | 81.9   |
| 75°   | 55.1   | 55.1   | 54.5   | 58.8   | 75.8   | 74.3   | 72.4   | 74.6   | 75.2   | 75.8   | 75.8   |
| 77.5° | 48.7   | 49.3   | 49.3   | 54.5   | 70.6   | 72.7   | 66.5   | 67.7   | 68.7   | 69.0   | 68.1   |
| 80°   | 40.6   | 42.2   | 42.9   | 49.6   | 59.1   | 67.1   | 59.4   | 60.4   | 60.7   | 60.7   | 59.4   |
| 82.5° | 31.1   | 33.9   | 35.4   | 42.9   | 45.3   | 56.4   | 51.8   | 52.7   | 51.8   | 49.9   | 49.3   |
| 85°   | 21.6   | 25.3   | 27.1   | 32.6   | 34.2   | 43.5   | 43.2   | 43.2   | 41.3   | 38.8   | 38.5   |
| 87.5° | 11.7   | 13.9   | 15.1   | 19.4   | 23.4   | 29.3   | 31.7   | 30.8   | 29.3   | 27.7   | 28.0   |
| 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°    | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 |
| 2.5°  | 1698.5 | 1740.4 | 1807.2 | 1858.4 | 1909.8 | 1959.5 | 2013.1 | 2054.1 | 2088.9 | 2102.4 | 2143.7 |
| 5°    | 1365.8 | 1418.2 | 1481.3 | 1595.4 | 1676.1 | 1765.1 | 1868.0 | 2004.2 | 2056.5 | 2128.9 | 2247.5 |
| 7.5°  | 965.8  | 1013.1 | 1114.8 | 1206.9 | 1321.2 | 1447.2 | 1586.1 | 1774.0 | 1842.7 | 1958.8 | 2152.0 |
| 10°   | 721.2  | 776.3  | 857.9  | 935.5  | 1036.2 | 1165.0 | 1324.6 | 1534.6 | 1618.2 | 1744.1 | 1966.5 |
| 12.5° | 580.9  | 646.0  | 732.5  | 805.6  | 883.4  | 974.4  | 1129.3 | 1359.7 | 1471.5 | 1581.8 | 1806.6 |
| 15°   | 446.3  | 514.4  | 594.8  | 687.5  | 773.5  | 871.5  | 1033.8 | 1285.7 | 1414.5 | 1529.4 | 1721.3 |
| 17.5° | 308.9  | 367.2  | 468.5  | 565.3  | 675.2  | 800.6  | 1007.3 | 1301.5 | 1455.2 | 1587.6 | 1736.2 |
| 20°   | 219.0  | 252.3  | 335.4  | 447.5  | 584.7  | 742.0  | 1002.4 | 1384.1 | 1583.9 | 1735.2 | 1831.0 |
| 22.5° | 184.2  | 196.5  | 244.9  | 347.8  | 506.2  | 698.4  | 1019.7 | 1499.9 | 1757.7 | 1950.9 | 1982.3 |
| 25°   | 167.9  | 175.2  | 200.5  | 272.9  | 436.2  | 666.7  | 1077.9 | 1672.4 | 1972.8 | 2166.5 | 2160.9 |
| 27.5° | 159.0  | 166.6  | 183.3  | 230.4  | 383.5  | 646.9  | 1136.1 | 1876.9 | 2218.6 | 2400.6 | 2331.6 |
| 30°   | 156.2  | 166.6  | 184.2  | 217.2  | 346.0  | 615.8  | 1183.9 | 2056.5 | 2407.7 | 2558.6 | 2409.3 |
| 32.5° | 154.1  | 155.6  | 163.6  | 187.3  | 310.2  | 579.4  | 1216.2 | 2217.7 | 2592.8 | 2709.0 | 2521.1 |
| 35°   | 124.5  | 132.2  | 145.1  | 167.9  | 289.3  | 557.6  | 1216.2 | 2356.6 | 2775.2 | 2860.8 | 2627.7 |
| 37.5° | 119.8  | 126.6  | 138.0  | 157.4  | 277.5  | 546.8  | 1191.8 | 2490.6 | 2961.5 | 3033.0 | 2715.4 |
| 40°   | 117.3  | 123.0  | 133.7  | 149.4  | 272.6  | 534.5  | 1156.4 | 2608.8 | 3143.6 | 3205.5 | 2797.4 |
| 42.5° | 115.5  | 120.4  | 130.6  | 144.4  | 266.2  | 520.9  | 1127.7 | 2703.7 | 3301.6 | 3352.7 | 2875.6 |
| 45°   | 114.6  | 119.8  | 130.9  | 146.9  | 253.2  | 503.1  | 1118.2 | 2806.3 | 3431.6 | 3475.7 | 2960.3 |
| 47.5° | 114.6  | 120.7  | 132.5  | 152.2  | 237.8  | 484.6  | 1148.1 | 2941.5 | 3554.5 | 3576.1 | 3060.2 |
| 50°   | 113.6  | 120.4  | 136.8  | 146.9  | 215.3  | 461.1  | 1218.3 | 3111.8 | 3687.6 | 3690.1 | 3186.4 |
| 52.5° | 111.8  | 119.8  | 147.2  | 143.8  | 189.5  | 430.4  | 1313.2 | 3330.6 | 3884.5 | 3899.2 | 3384.1 |
| 55°   | 109.7  | 118.9  | 144.4  | 136.8  | 168.2  | 393.6  | 1390.8 | 3596.4 | 4161.1 | 4202.1 | 3675.0 |
| 57.5° | 106.9  | 117.6  | 139.8  | 126.9  | 154.4  | 346.6  | 1418.8 | 3791.1 | 4354.2 | 4457.1 | 4002.7 |
| 60°   | 104.4  | 116.7  | 126.3  | 121.0  | 145.7  | 306.8  | 1364.6 | 3752.6 | 4341.0 | 4562.8 | 4293.2 |
| 62.5° | 102.0  | 117.6  | 115.2  | 117.3  | 141.7  | 281.2  | 1222.9 | 3444.3 | 4121.4 | 4453.7 | 4508.6 |
| 65°   | 99.2   | 109.4  | 108.7  | 114.3  | 140.8  | 271.1  | 1013.7 | 2981.9 | 3696.8 | 4109.0 | 4559.4 |
| 67.5° | 95.5   | 101.1  | 104.1  | 110.3  | 143.8  | 262.2  | 818.2  | 2459.7 | 3106.9 | 3592.4 | 4294.4 |
| 70°   | 91.5   | 96.2   | 99.5   | 105.4  | 142.0  | 258.1  | 680.5  | 1939.7 | 2465.3 | 2944.3 | 3771.7 |
| 72.5° | 86.2   | 90.2   | 93.3   | 98.9   | 140.1  | 255.9  | 574.8  | 1562.0 | 1840.6 | 2187.1 | 3066.6 |
| 75°   | 80.1   | 83.8   | 85.9   | 91.5   | 134.3  | 234.5  | 451.9  | 1321.9 | 1377.3 | 1521.4 | 2442.5 |
| 77.5° | 73.0   | 75.8   | 77.6   | 83.8   | 118.9  | 195.0  | 326.8  | 1019.7 | 1069.5 | 1104.7 | 1872.6 |
| 80°   | 64.7   | 67.4   | 68.4   | 74.3   | 98.6   | 152.5  | 213.2  | 753.2  | 799.9  | 808.0  | 1222.9 |
| 82.5° | 55.1   | 57.9   | 57.9   | 63.4   | 80.7   | 109.7  | 139.8  | 516.0  | 525.2  | 552.3  | 864.4  |
| 85°   | 44.4   | 46.5   | 46.5   | 49.3   | 62.5   | 81.9   | 96.2   | 259.1  | 256.2  | 292.7  | 748.9  |
| 87.5° | 31.7   | 33.2   | 34.8   | 35.4   | 44.7   | 54.2   | 57.9   | 78.9   | 52.1   | 59.7   | 480.9  |
| 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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|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 | 1893.3 |
| 2.5°  | 2174.8 | 2192.4 | 2174.5 | 2161.6 | 2105.7 | 2059.9 | 1998.6 | 1967.1 |
| 5°    | 2337.7 | 2382.5 | 2367.3 | 2313.1 | 2196.7 | 2065.7 | 1917.0 | 1849.8 |
| 7.5°  | 2318.0 | 2421.8 | 2424.3 | 2322.9 | 2151.4 | 1958.5 | 1757.1 | 1661.6 |
| 10°   | 2164.7 | 2297.3 | 2335.3 | 2237.0 | 2055.0 | 1839.4 | 1608.3 | 1499.2 |
| 12.5° | 1993.3 | 2123.3 | 2152.3 | 2118.4 | 1966.2 | 1749.7 | 1515.3 | 1408.4 |
| 15°   | 1853.2 | 1911.4 | 1946.0 | 1975.5 | 1890.2 | 1714.0 | 1510.1 | 1392.6 |
| 17.5° | 1767.9 | 1761.4 | 1771.2 | 1822.7 | 1837.2 | 1755.0 | 1590.1 | 1460.8 |
| 20°   | 1737.1 | 1638.2 | 1635.7 | 1706.6 | 1812.3 | 1852.6 | 1746.6 | 1591.4 |
| 22.5° | 1754.1 | 1593.9 | 1573.5 | 1657.6 | 1825.5 | 1993.3 | 1951.8 | 1774.6 |
| 25°   | 1812.6 | 1597.5 | 1581.2 | 1662.5 | 1873.5 | 2143.4 | 2173.3 | 2011.8 |
| 27.5° | 1904.6 | 1621.0 | 1599.4 | 1682.9 | 1937.3 | 2269.3 | 2391.4 | 2241.6 |
| 30°   | 1992.1 | 1661.6 | 1634.8 | 1722.9 | 1995.5 | 2319.2 | 2525.1 | 2420.9 |
| 32.5° | 2098.4 | 1737.7 | 1690.5 | 1796.5 | 2067.6 | 2398.7 | 2644.2 | 2569.4 |
| 35°   | 2202.5 | 1846.1 | 1787.6 | 1910.2 | 2148.0 | 2497.6 | 2780.4 | 2759.1 |
| 37.5° | 2316.8 | 1987.8 | 1939.4 | 2057.2 | 2258.0 | 2590.9 | 2954.2 | 2981.6 |
| 40°   | 2438.8 | 2175.7 | 2118.4 | 2271.6 | 2428.6 | 2708.1 | 3135.5 | 3201.5 |
| 42.5° | 2561.7 | 2384.3 | 2315.9 | 2471.1 | 2616.2 | 2823.5 | 3290.8 | 3388.5 |
| 45°   | 2702.4 | 2610.7 | 2578.3 | 2746.2 | 2796.4 | 2933.5 | 3405.4 | 3526.8 |
| 47.5° | 2866.3 | 2867.5 | 2919.6 | 2986.8 | 2978.2 | 3057.9 | 3520.6 | 3650.3 |
| 50°   | 3057.6 | 3188.2 | 3303.1 | 3347.8 | 3165.4 | 3191.6 | 3680.5 | 3815.7 |
| 52.5° | 3287.5 | 3571.7 | 3714.1 | 3684.9 | 3367.2 | 3354.9 | 3933.8 | 4043.7 |
| 55°   | 3574.8 | 3977.7 | 4119.2 | 4098.2 | 3599.2 | 3577.4 | 4249.1 | 4313.3 |
| 57.5° | 3907.6 | 4371.2 | 4501.2 | 4406.9 | 3877.7 | 3821.3 | 4510.1 | 4523.6 |
| 60°   | 4199.8 | 4682.9 | 4796.8 | 4692.5 | 4158.6 | 4081.0 | 4673.0 | 4607.4 |
| 62.5° | 4362.5 | 4788.5 | 4868.6 | 4756.2 | 4351.1 | 4357.6 | 4708.7 | 4562.2 |
| 65°   | 4289.8 | 4521.4 | 4547.3 | 4538.1 | 4301.5 | 4518.1 | 4580.3 | 4353.0 |
| 67.5° | 3891.8 | 3846.2 | 3889.7 | 3949.7 | 3876.5 | 4306.7 | 4224.5 | 3897.3 |
| 70°   | 3190.7 | 2940.3 | 3026.8 | 3067.2 | 3100.5 | 3706.0 | 3666.7 | 3174.4 |
| 72.5° | 2404.5 | 2059.9 | 2128.2 | 2120.0 | 2274.0 | 2972.6 | 2851.6 | 2334.1 |
| 75°   | 1703.8 | 1396.6 | 1405.3 | 1402.0 | 1586.7 | 2325.8 | 2064.8 | 1596.9 |
| 77.5° | 1192.1 | 1011.9 | 1016.5 | 1035.6 | 1066.7 | 1754.1 | 1475.2 | 1166.6 |
| 80°   | 819.7  | 767.9  | 793.5  | 795.0  | 739.3  | 1178.2 | 1089.9 | 936.1  |
| 82.5° | 610.5  | 533.9  | 527.6  | 536.6  | 579.4  | 954.6  | 837.6  | 649.4  |
| 85°   | 499.9  | 316.1  | 254.1  | 318.5  | 513.5  | 945.4  | 556.3  | 342.6  |
| 87.5° | 281.5  | 150.1  | 67.7   | 125.7  | 204.9  | 625.9  | 160.8  | 43.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)