

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: P324653

Luminaire Tested: **GAN-SA9C-830-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324653  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9C-830-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37247 lumens  
Efficiency: N/A  
Efficacy: 74.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

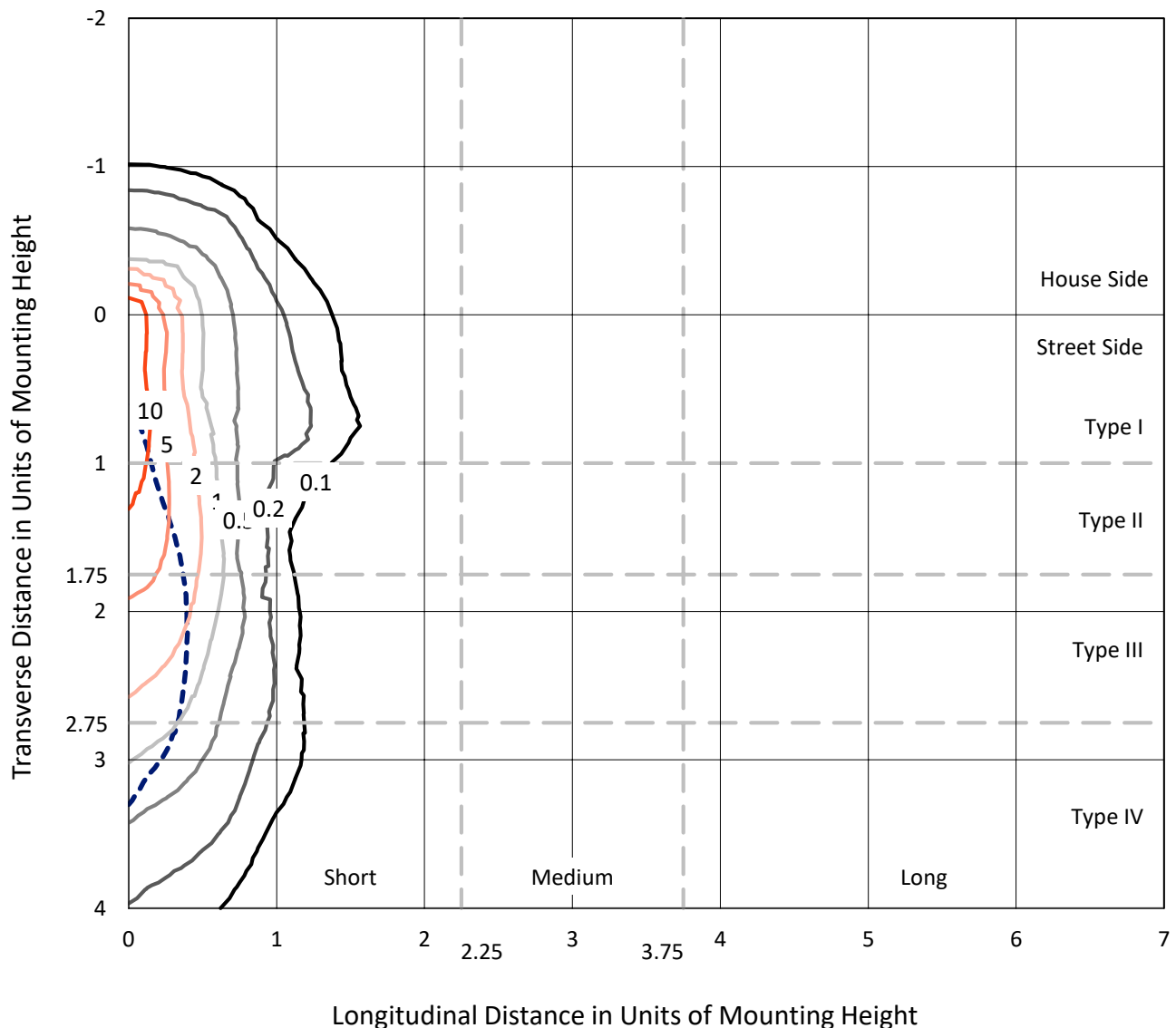
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

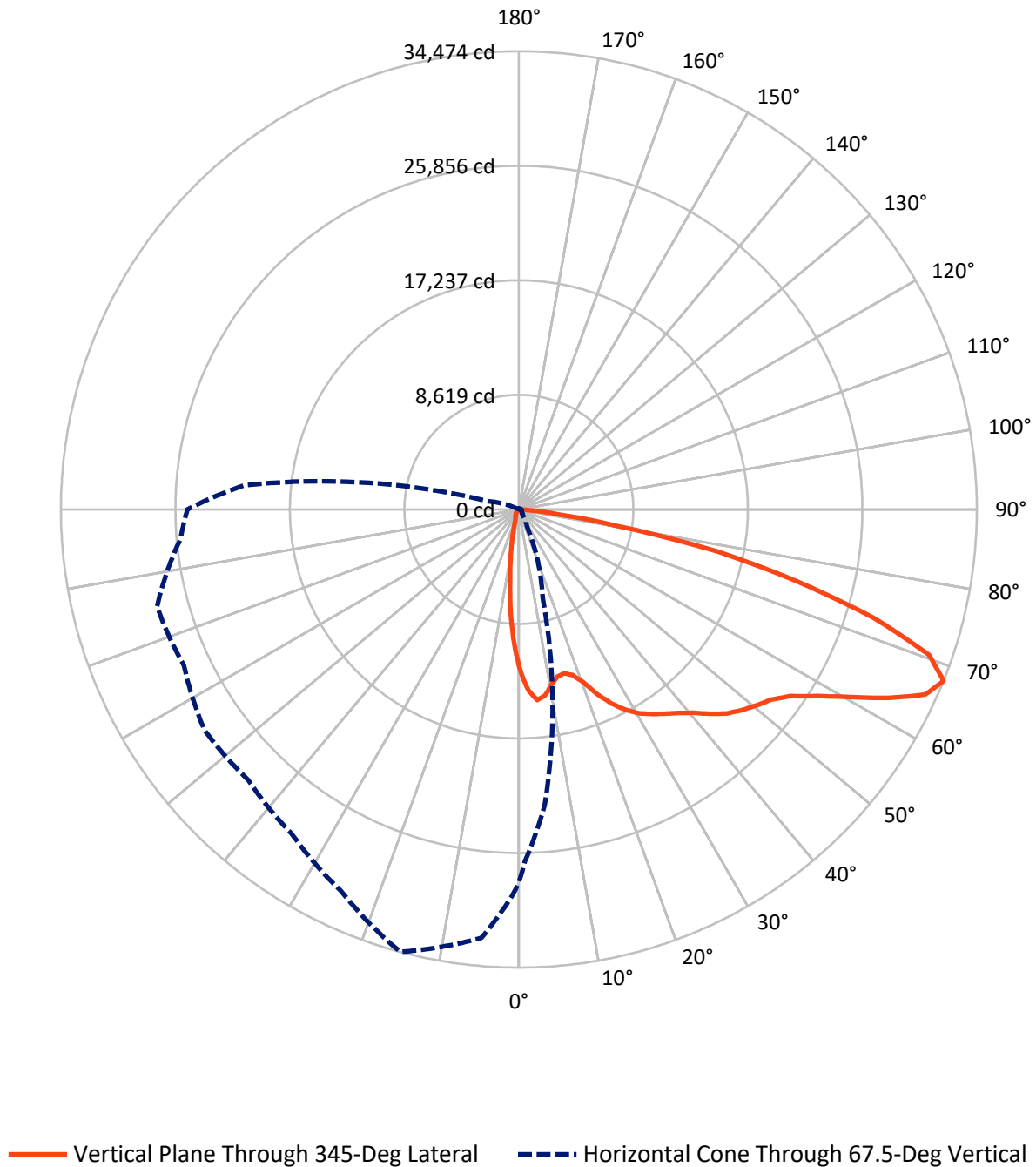
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4508.1   | 0.0    | 4508.1  |
|                    | % Fixture | 12.1     | 0.0    | 12.1    |
| <b>Street Side</b> | Lumens    | 32738.9  | 0.0    | 32738.9 |
|                    | % Fixture | 87.9     | 0.0    | 87.9    |
| <b>Total</b>       | Lumens    | 37247.0  | 0.0    | 37247.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 931.2   | 2.5       |
| 10°-20°   | 1853.5  | 5.0       |
| 20°-30°   | 2632.0  | 7.1       |
| 30°-40°   | 3887.7  | 10.4      |
| 40°-50°   | 5606.9  | 15.1      |
| 50°-60°   | 7870.9  | 21.1      |
| 60°-70°   | 9175.2  | 24.6      |
| 70°-80°   | 4690.5  | 12.6      |
| 80°-90°   | 599.0   | 1.6       |
| 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°    | 37247.0 | 100.0     |
| 0°-180°   | 37247.0 | 100.0     |

**Coefficient of Utilization**



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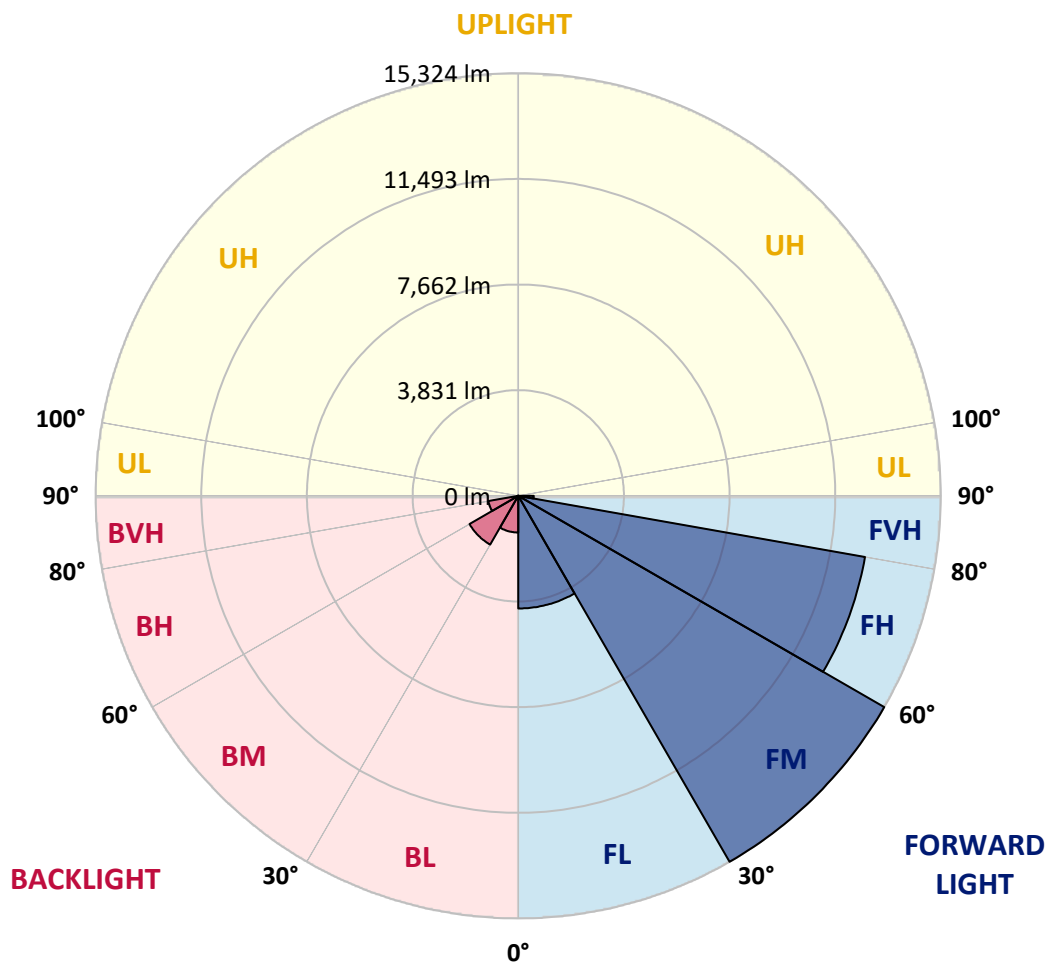
CATALOG NUMBER: GAN-SA9C-830-U-SLR-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4085.3  | 11.0      |                         |      |         |
| FM   | (30°-60°)   | 15324.0 | 41.1      |                         |      |         |
| FH   | (60°-80°)   | 12767.0 | 34.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 562.6   | 1.5       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1331.5  | 3.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2041.4  | 5.5       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1098.8  | 2.9       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 36.4    | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 |
| 2.5°  | 13285.4 | 13183.1 | 13070.1 | 12701.3 | 12359.0 | 11967.3 | 11647.9 | 11425.6 | 11146.7 | 10785.0 | 10693.3 |
| 5°    | 13190.1 | 13080.7 | 12726.0 | 11905.5 | 11187.3 | 10488.6 | 9814.5  | 9419.2  | 8928.7  | 8431.1  | 8307.6  |
| 7.5°  | 12232.0 | 12117.3 | 11605.5 | 10481.5 | 9514.5  | 8505.2  | 7630.0  | 7088.3  | 6534.2  | 6078.9  | 5837.2  |
| 10°   | 11235.0 | 11109.7 | 10534.4 | 9170.4  | 7979.4  | 7067.1  | 6424.8  | 5907.8  | 5383.7  | 4896.7  | 4508.5  |
| 12.5° | 10548.6 | 10384.5 | 9759.8  | 8214.0  | 7176.5  | 6557.1  | 5957.2  | 5337.8  | 4628.5  | 4106.1  | 3679.1  |
| 15°   | 10260.9 | 10073.9 | 9413.9  | 7845.3  | 6892.4  | 6165.4  | 5383.7  | 4623.2  | 3792.0  | 3193.9  | 2802.1  |
| 17.5° | 10483.3 | 10239.8 | 9532.2  | 7820.5  | 6535.9  | 5546.0  | 4557.9  | 3665.0  | 2763.3  | 2158.1  | 1879.3  |
| 20°   | 11238.5 | 10919.1 | 10021.0 | 7813.5  | 6103.6  | 4810.2  | 3557.4  | 2548.0  | 1821.0  | 1464.6  | 1318.1  |
| 22.5° | 12427.8 | 12006.1 | 10723.3 | 7870.0  | 5657.2  | 4037.3  | 2569.2  | 1731.0  | 1367.5  | 1182.3  | 1095.8  |
| 25°   | 13864.2 | 13375.4 | 11734.3 | 8069.4  | 5265.5  | 3285.6  | 1866.9  | 1367.5  | 1154.0  | 1018.2  | 945.8   |
| 27.5° | 15230.0 | 14832.9 | 13011.9 | 8357.0  | 4962.0  | 2678.6  | 1515.8  | 1159.3  | 986.4   | 896.4   | 838.2   |
| 30°   | 16594.0 | 16094.6 | 14323.0 | 8699.3  | 4596.7  | 2267.5  | 1332.2  | 1057.0  | 884.0   | 788.8   | 751.7   |
| 32.5° | 17585.6 | 17171.0 | 15349.9 | 8946.3  | 4206.7  | 1999.3  | 1191.1  | 967.0   | 825.8   | 728.8   | 674.1   |
| 35°   | 18752.0 | 18282.6 | 16230.5 | 9001.0  | 3956.2  | 1829.9  | 1071.1  | 869.9   | 716.4   | 629.9   | 571.7   |
| 37.5° | 20011.9 | 19427.8 | 17246.8 | 8881.0  | 3760.3  | 1746.9  | 981.1   | 825.8   | 668.8   | 580.5   | 518.8   |
| 40°   | 21405.9 | 20746.0 | 18222.7 | 8708.1  | 3567.9  | 1718.7  | 912.3   | 792.3   | 631.7   | 541.7   | 478.2   |
| 42.5° | 22874.0 | 22095.9 | 19067.9 | 8526.4  | 3446.2  | 1621.6  | 905.2   | 758.8   | 603.5   | 506.4   | 442.9   |
| 45°   | 24107.5 | 23318.7 | 19936.0 | 8466.4  | 3359.7  | 1515.8  | 935.2   | 735.8   | 584.1   | 478.2   | 416.4   |
| 47.5° | 25090.3 | 24343.9 | 20825.4 | 8600.5  | 3310.3  | 1418.7  | 852.3   | 765.8   | 573.5   | 453.5   | 393.5   |
| 50°   | 26263.8 | 25418.5 | 22078.2 | 9001.0  | 3238.0  | 1321.7  | 771.1   | 877.0   | 573.5   | 437.6   | 374.1   |
| 52.5° | 27735.4 | 26899.0 | 23475.8 | 9622.2  | 3093.3  | 1187.6  | 693.5   | 878.8   | 578.8   | 416.4   | 349.4   |
| 55°   | 29586.4 | 28979.4 | 25471.5 | 10303.3 | 2862.1  | 989.9   | 600.0   | 755.2   | 557.6   | 377.6   | 326.4   |
| 57.5° | 31361.6 | 30865.8 | 27290.7 | 10769.1 | 2553.3  | 772.9   | 522.3   | 608.8   | 510.0   | 331.7   | 291.2   |
| 59°   | 31846.8 | 31305.1 | 27957.7 | 10790.3 | 2322.2  | 674.1   | 483.5   | 502.9   | 499.4   | 310.6   | 270.0   |
| 60°   | 31846.8 | 31271.6 | 28150.1 | 10677.4 | 2154.5  | 619.4   | 458.8   | 448.2   | 520.5   | 296.4   | 257.6   |
| 62.5° | 31269.8 | 30461.7 | 27525.4 | 9913.3  | 1757.5  | 527.6   | 400.6   | 370.6   | 467.6   | 266.4   | 227.6   |
| 65°   | 30069.9 | 28893.0 | 25397.4 | 8531.7  | 1566.9  | 483.5   | 345.9   | 303.5   | 324.7   | 234.7   | 199.4   |
| 67.5° | 28068.9 | 26473.8 | 22328.8 | 6892.4  | 1491.1  | 471.1   | 298.2   | 257.6   | 245.3   | 201.2   | 174.7   |
| 70°   | 24545.1 | 22775.2 | 18603.8 | 5419.0  | 1425.8  | 465.8   | 250.6   | 217.0   | 197.6   | 169.4   | 148.2   |
| 72.5° | 17864.4 | 16018.7 | 13207.8 | 4236.7  | 1386.9  | 476.4   | 201.2   | 181.8   | 162.3   | 132.3   | 114.7   |
| 75°   | 10218.6 | 9009.9  | 7423.5  | 2798.6  | 1182.3  | 455.3   | 155.3   | 151.8   | 116.5   | 95.3    | 79.4    |
| 77.5° | 5279.6  | 5119.0  | 4448.5  | 1074.6  | 566.4   | 199.4   | 102.3   | 88.2    | 68.8    | 58.2    | 47.6    |
| 80°   | 2278.1  | 2253.3  | 1949.8  | 310.6   | 150.0   | 111.2   | 58.2    | 37.1    | 31.8    | 24.7    | 19.4    |
| 82.5° | 787.0   | 787.0   | 693.5   | 104.1   | 67.1    | 54.7    | 7.1     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 158.8   | 178.2   | 125.3   | 0.0     | 22.9    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 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):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 |
| 2.5°  | 10582.1 | 10368.6 | 10354.5 | 10220.4 | 10052.7 | 9976.8  | 9932.7  | 10010.4 | 10105.7 | 10116.2 | 10259.2 |
| 5°    | 8214.0  | 7989.9  | 8083.5  | 7845.3  | 7892.9  | 7845.3  | 7767.6  | 7781.7  | 7824.1  | 7691.7  | 7855.8  |
| 7.5°  | 5768.4  | 5599.0  | 5706.6  | 5643.1  | 5727.8  | 5761.3  | 5713.7  | 5643.1  | 5434.9  | 5410.2  | 5553.1  |
| 10°   | 4347.9  | 4155.5  | 4040.9  | 3920.9  | 3947.3  | 4002.0  | 3984.4  | 3933.2  | 3800.9  | 3807.9  | 3945.6  |
| 12.5° | 3493.8  | 3278.6  | 3050.9  | 2756.2  | 2683.9  | 2724.5  | 2683.9  | 2653.9  | 2526.9  | 2537.4  | 2659.2  |
| 15°   | 2650.4  | 2473.9  | 2235.7  | 1999.3  | 1870.4  | 1882.8  | 1769.9  | 1690.5  | 1611.0  | 1515.8  | 1589.9  |
| 17.5° | 1789.3  | 1681.6  | 1611.0  | 1540.5  | 1386.9  | 1351.7  | 1208.7  | 1055.2  | 995.2   | 951.1   | 982.9   |
| 20°   | 1267.0  | 1208.7  | 1180.5  | 1177.0  | 1088.7  | 1044.6  | 905.2   | 809.9   | 779.9   | 771.1   | 790.5   |
| 22.5° | 1058.7  | 1016.4  | 975.8   | 952.9   | 908.8   | 857.6   | 751.7   | 704.1   | 682.9   | 672.3   | 686.4   |
| 25°   | 921.1   | 889.3   | 847.0   | 808.2   | 790.5   | 735.8   | 659.9   | 624.7   | 610.5   | 600.0   | 607.0   |
| 27.5° | 818.8   | 790.5   | 741.1   | 716.4   | 702.3   | 654.7   | 589.4   | 561.1   | 548.8   | 545.3   | 543.5   |
| 30°   | 737.6   | 711.1   | 665.2   | 637.0   | 612.3   | 570.0   | 531.1   | 502.9   | 490.5   | 487.0   | 483.5   |
| 32.5° | 656.4   | 635.2   | 605.2   | 577.0   | 550.5   | 511.7   | 478.2   | 455.3   | 435.8   | 432.3   | 430.6   |
| 35°   | 554.1   | 532.9   | 517.0   | 515.3   | 490.5   | 453.5   | 428.8   | 398.8   | 382.9   | 377.6   | 379.4   |
| 37.5° | 492.3   | 464.1   | 428.8   | 441.1   | 434.1   | 407.6   | 374.1   | 344.1   | 328.2   | 324.7   | 324.7   |
| 40°   | 453.5   | 423.5   | 382.9   | 361.7   | 382.9   | 377.6   | 324.7   | 294.7   | 278.8   | 277.0   | 273.5   |
| 42.5° | 416.4   | 386.4   | 340.6   | 305.3   | 315.9   | 331.7   | 280.6   | 252.3   | 236.5   | 232.9   | 227.6   |
| 45°   | 390.0   | 358.2   | 307.0   | 266.4   | 245.3   | 278.8   | 240.0   | 204.7   | 195.9   | 188.8   | 185.3   |
| 47.5° | 365.3   | 335.3   | 277.0   | 231.2   | 195.9   | 201.2   | 192.3   | 167.6   | 157.0   | 150.0   | 148.2   |
| 50°   | 344.1   | 312.3   | 250.6   | 197.6   | 162.3   | 148.2   | 155.3   | 132.3   | 123.5   | 116.5   | 112.9   |
| 52.5° | 319.4   | 289.4   | 222.3   | 171.2   | 135.9   | 116.5   | 118.2   | 104.1   | 95.3    | 90.0    | 88.2    |
| 55°   | 300.0   | 270.0   | 199.4   | 150.0   | 120.0   | 95.3    | 84.7    | 81.2    | 75.9    | 72.3    | 70.6    |
| 57.5° | 273.5   | 245.3   | 176.5   | 127.0   | 102.3   | 77.6    | 65.3    | 65.3    | 63.5    | 60.0    | 58.2    |
| 59°   | 257.6   | 232.9   | 162.3   | 114.7   | 93.5    | 67.1    | 58.2    | 60.0    | 58.2    | 54.7    | 52.9    |
| 60°   | 245.3   | 222.3   | 151.8   | 105.9   | 88.2    | 61.8    | 52.9    | 56.5    | 54.7    | 51.2    | 49.4    |
| 62.5° | 217.0   | 201.2   | 130.6   | 88.2    | 77.6    | 49.4    | 44.1    | 47.6    | 47.6    | 45.9    | 44.1    |
| 65°   | 190.6   | 172.9   | 111.2   | 74.1    | 72.3    | 42.3    | 35.3    | 42.3    | 44.1    | 40.6    | 37.1    |
| 67.5° | 165.9   | 148.2   | 97.1    | 60.0    | 67.1    | 33.5    | 26.5    | 35.3    | 47.6    | 37.1    | 33.5    |
| 70°   | 141.2   | 123.5   | 75.9    | 47.6    | 70.6    | 22.9    | 21.2    | 31.8    | 56.5    | 40.6    | 31.8    |
| 72.5° | 109.4   | 95.3    | 52.9    | 35.3    | 75.9    | 15.9    | 15.9    | 26.5    | 63.5    | 44.1    | 30.0    |
| 75°   | 75.9    | 61.8    | 31.8    | 21.2    | 61.8    | 10.6    | 10.6    | 24.7    | 60.0    | 40.6    | 28.2    |
| 77.5° | 44.1    | 33.5    | 10.6    | 1.8     | 31.8    | 0.0     | 1.8     | 17.6    | 42.3    | 24.7    | 12.4    |
| 80°   | 15.9    | 7.1     | 0.0     | 0.0     | 19.4    | 0.0     | 0.0     | 0.0     | 3.5     | 0.0     | 0.0     |
| 82.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 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):**

|       | 185°    | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 |
| 2.5°  | 10296.2 | 10534.4 | 10748.0 | 11070.9 | 11453.8 | 11894.9 | 12274.3 | 12681.9 | 13064.8 | 13223.6 | 13333.0 |
| 5°    | 7889.4  | 8184.0  | 8528.1  | 9002.8  | 9634.5  | 10412.7 | 11141.5 | 11965.5 | 12851.3 | 13294.2 | 13710.7 |
| 7.5°  | 5577.8  | 5877.8  | 6304.8  | 6809.5  | 7573.5  | 8499.9  | 9452.8  | 10590.9 | 11790.8 | 12491.3 | 13181.3 |
| 10°   | 4010.9  | 4379.6  | 4778.4  | 5468.4  | 6244.8  | 7123.5  | 8104.6  | 9375.1  | 10712.7 | 11489.1 | 12320.2 |
| 12.5° | 2729.8  | 3149.7  | 3753.2  | 4526.1  | 5438.4  | 6299.5  | 7151.8  | 8364.0  | 9916.8  | 10686.2 | 11577.3 |
| 15°   | 1637.5  | 1870.4  | 2509.2  | 3403.8  | 4522.6  | 5595.4  | 6528.9  | 7744.7  | 9399.8  | 10342.1 | 11268.5 |
| 17.5° | 1009.3  | 1117.0  | 1464.6  | 2198.6  | 3373.8  | 4730.8  | 6010.1  | 7534.7  | 9473.9  | 10620.9 | 11612.6 |
| 20°   | 804.6   | 847.0   | 958.2   | 1298.7  | 2235.7  | 3777.9  | 5426.0  | 7492.3  | 10079.2 | 11490.8 | 12554.9 |
| 22.5° | 698.8   | 739.4   | 813.5   | 944.0   | 1406.4  | 2828.6  | 4872.0  | 7531.2  | 10947.4 | 12794.9 | 14037.1 |
| 25°   | 615.8   | 651.1   | 721.7   | 829.3   | 1030.5  | 1992.2  | 4279.1  | 7704.1  | 12078.4 | 14413.0 | 15732.9 |
| 27.5° | 550.5   | 580.5   | 645.8   | 744.6   | 884.0   | 1390.5  | 3606.8  | 7914.1  | 13419.5 | 16068.1 | 17370.4 |
| 30°   | 490.5   | 517.0   | 575.2   | 667.0   | 767.6   | 1069.3  | 2869.2  | 8057.0  | 14762.3 | 17370.4 | 18540.3 |
| 32.5° | 439.4   | 458.8   | 511.7   | 589.4   | 667.0   | 852.3   | 2181.0  | 8034.1  | 15759.3 | 18453.8 | 19382.0 |
| 35°   | 386.4   | 405.8   | 451.7   | 518.8   | 580.5   | 704.1   | 1715.2  | 7605.3  | 16627.5 | 19577.8 | 20345.4 |
| 37.5° | 328.2   | 352.9   | 397.0   | 457.0   | 499.4   | 619.4   | 1386.9  | 7088.3  | 17508.0 | 20862.4 | 21420.0 |
| 40°   | 278.8   | 303.5   | 342.3   | 407.6   | 434.1   | 587.6   | 1065.8  | 6458.3  | 18497.9 | 22298.8 | 22598.8 |
| 42.5° | 231.2   | 254.1   | 294.7   | 351.1   | 409.4   | 506.4   | 788.8   | 5738.4  | 19449.0 | 23526.9 | 23673.4 |
| 45°   | 187.0   | 210.0   | 252.3   | 308.8   | 437.6   | 420.0   | 610.5   | 4967.2  | 20216.6 | 24548.6 | 24596.3 |
| 47.5° | 148.2   | 169.4   | 213.5   | 291.2   | 407.6   | 335.3   | 435.8   | 4362.0  | 20860.7 | 25346.2 | 25220.9 |
| 50°   | 114.7   | 132.3   | 178.2   | 333.5   | 356.4   | 277.0   | 330.0   | 4160.8  | 21437.7 | 25840.3 | 25515.6 |
| 52.5° | 90.0    | 105.9   | 146.5   | 312.3   | 277.0   | 229.4   | 277.0   | 4349.6  | 22228.2 | 26249.7 | 25681.5 |
| 55°   | 72.3    | 88.2    | 114.7   | 178.2   | 188.8   | 194.1   | 236.5   | 4526.1  | 23592.2 | 27209.6 | 26660.8 |
| 57.5° | 60.0    | 75.9    | 93.5    | 125.3   | 142.9   | 164.1   | 210.0   | 4545.5  | 25199.7 | 28804.7 | 28286.0 |
| 59°   | 54.7    | 68.8    | 84.7    | 111.2   | 125.3   | 150.0   | 197.6   | 4439.6  | 25766.2 | 29385.3 | 29125.9 |
| 60°   | 51.2    | 65.3    | 79.4    | 102.3   | 116.5   | 141.2   | 190.6   | 4339.1  | 25790.9 | 29364.1 | 29484.1 |
| 62.5° | 44.1    | 58.2    | 70.6    | 86.5    | 98.8    | 120.0   | 171.2   | 3966.7  | 24746.2 | 28402.4 | 29268.8 |
| 65°   | 38.8    | 51.2    | 63.5    | 74.1    | 84.7    | 107.6   | 155.3   | 3287.4  | 22962.3 | 26851.4 | 27795.4 |
| 67.5° | 35.3    | 44.1    | 58.2    | 65.3    | 75.9    | 95.3    | 137.6   | 2343.3  | 20733.6 | 24954.5 | 25566.8 |
| 70°   | 31.8    | 42.3    | 52.9    | 60.0    | 68.8    | 82.9    | 118.2   | 1346.4  | 17508.0 | 22177.0 | 22612.9 |
| 72.5° | 30.0    | 40.6    | 47.6    | 56.5    | 61.8    | 74.1    | 107.6   | 633.5   | 12819.6 | 17765.6 | 18903.8 |
| 75°   | 26.5    | 37.1    | 44.1    | 52.9    | 58.2    | 67.1    | 91.8    | 303.5   | 8526.4  | 12856.6 | 14150.0 |
| 77.5° | 15.9    | 30.0    | 40.6    | 47.6    | 51.2    | 58.2    | 75.9    | 174.7   | 5441.9  | 8898.7  | 10481.5 |
| 80°   | 0.0     | 10.6    | 30.0    | 40.6    | 44.1    | 49.4    | 58.2    | 137.6   | 2911.5  | 5083.7  | 6101.9  |
| 82.5° | 0.0     | 0.0     | 21.2    | 31.8    | 30.0    | 33.5    | 44.1    | 86.5    | 1312.8  | 3322.7  | 3744.4  |
| 85°   | 0.0     | 0.0     | 7.1     | 24.7    | 21.2    | 15.9    | 30.0    | 30.0    | 287.6   | 1681.6  | 2098.1  |
| 87.5° | 0.0     | 0.0     | 0.0     | 1.8     | 10.6    | 7.1     | 12.4    | 3.5     | 1.8     | 125.3   | 508.2   |
| 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):**

|       | 285°    | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 359°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 | 12133.1 |
| 2.5°  | 13716.0 | 13846.5 | 14067.1 | 14171.2 | 14120.0 | 13903.0 | 13643.6 | 13378.9 | 13223.6 | 13285.4 |
| 5°    | 14559.4 | 15231.7 | 15619.9 | 15748.7 | 15533.5 | 15046.4 | 14409.4 | 13569.5 | 13271.3 | 13190.1 |
| 7.5°  | 14559.4 | 15824.6 | 16625.7 | 16766.9 | 16286.9 | 15332.3 | 14137.7 | 12826.6 | 12390.8 | 12232.0 |
| 10°   | 14047.7 | 15769.9 | 16886.9 | 17111.0 | 16440.4 | 15012.9 | 13412.4 | 11916.1 | 11399.1 | 11235.0 |
| 12.5° | 13470.7 | 15325.2 | 16502.2 | 16811.0 | 16260.5 | 14695.3 | 12909.5 | 11300.3 | 10691.5 | 10548.6 |
| 15°   | 13116.0 | 14778.2 | 15752.3 | 15976.4 | 15743.4 | 14510.0 | 12789.6 | 11115.0 | 10398.6 | 10260.9 |
| 17.5° | 13243.1 | 14354.7 | 14705.9 | 14836.5 | 14993.5 | 14444.7 | 13116.0 | 11520.8 | 10613.9 | 10483.3 |
| 20°   | 13721.2 | 13908.3 | 13726.5 | 13890.6 | 14314.1 | 14508.2 | 13894.2 | 12501.9 | 11413.2 | 11238.5 |
| 22.5° | 14532.9 | 13677.1 | 13167.2 | 13232.5 | 13747.7 | 14718.2 | 15083.5 | 13903.0 | 12646.6 | 12427.8 |
| 25°   | 15478.8 | 13864.2 | 12856.6 | 12798.4 | 13327.8 | 14995.3 | 16170.5 | 15427.6 | 14105.9 | 13864.2 |
| 27.5° | 16668.1 | 14284.1 | 12793.1 | 12734.9 | 13181.3 | 15254.7 | 17073.9 | 16934.5 | 15642.9 | 15230.0 |
| 30°   | 17585.6 | 14697.1 | 12981.9 | 12847.8 | 13327.8 | 15434.6 | 17799.2 | 18213.8 | 16867.5 | 16594.0 |
| 32.5° | 18243.8 | 15184.1 | 13288.9 | 13094.8 | 13740.7 | 15745.2 | 18358.5 | 19385.5 | 18000.3 | 17585.6 |
| 35°   | 18745.0 | 15713.4 | 13784.8 | 13465.4 | 14308.8 | 16216.3 | 18882.6 | 20633.0 | 19205.5 | 18752.0 |
| 37.5° | 19214.3 | 16456.3 | 14559.4 | 14178.3 | 15200.0 | 16975.1 | 19436.7 | 22048.2 | 20553.6 | 20011.9 |
| 40°   | 19869.0 | 17298.0 | 15754.0 | 15415.2 | 16698.1 | 18009.1 | 20128.4 | 23523.4 | 22087.0 | 21405.9 |
| 42.5° | 20523.6 | 18201.5 | 16976.9 | 17068.6 | 18566.7 | 19265.5 | 21021.2 | 25083.3 | 23601.0 | 22874.0 |
| 45°   | 21121.8 | 19133.2 | 18718.5 | 19142.0 | 20301.3 | 20643.6 | 21908.8 | 25985.0 | 24809.8 | 24107.5 |
| 47.5° | 21654.7 | 20297.8 | 20449.5 | 21577.1 | 22274.1 | 21891.2 | 22572.3 | 26763.1 | 25709.7 | 25090.3 |
| 50°   | 22274.1 | 21804.7 | 22731.1 | 24326.3 | 24545.1 | 23020.5 | 23175.8 | 27684.2 | 26761.4 | 26263.8 |
| 52.5° | 22951.7 | 23392.8 | 25258.0 | 26664.3 | 26593.7 | 24246.9 | 23782.8 | 28716.5 | 28203.0 | 27735.4 |
| 55°   | 23721.0 | 24675.7 | 27483.1 | 28852.4 | 28792.4 | 25616.2 | 24788.6 | 29992.3 | 30009.9 | 29586.4 |
| 57.5° | 24862.7 | 25780.3 | 28993.5 | 30622.2 | 30722.8 | 27197.2 | 26493.2 | 31421.6 | 31643.9 | 31361.6 |
| 59°   | 25681.5 | 26496.7 | 29591.7 | 31361.6 | 31771.0 | 28420.1 | 27738.9 | 32250.9 | 32104.5 | 31846.8 |
| 60°   | 26288.5 | 26951.9 | 29888.2 | 31748.0 | 32379.7 | 29249.4 | 28658.3 | 32738.0 | 32159.2 | 31846.8 |
| 62.5° | 27790.1 | 27943.6 | 30422.8 | 32185.6 | 33080.3 | 31091.6 | 31245.1 | 33567.3 | 31779.8 | 31269.8 |
| 65°   | 28490.6 | 28570.1 | 30415.8 | 31402.2 | 32402.7 | 32526.2 | 33592.0 | 33592.0 | 30853.4 | 30069.9 |
| 67.5° | 28197.7 | 27814.8 | 28907.1 | 28804.7 | 29803.5 | 31673.9 | 34474.3 | 32360.3 | 29081.8 | 28068.9 |
| 70°   | 25815.6 | 24342.2 | 23856.9 | 23901.0 | 24665.1 | 27550.1 | 32727.4 | 28735.9 | 25729.1 | 24545.1 |
| 72.5° | 21480.0 | 17945.6 | 16747.5 | 18115.0 | 18314.4 | 21173.0 | 27890.7 | 21640.6 | 18974.4 | 17864.4 |
| 75°   | 17276.8 | 12650.2 | 10702.1 | 12145.5 | 12484.3 | 15494.6 | 21575.3 | 13477.7 | 11083.2 | 10218.6 |
| 77.5° | 12411.9 | 9080.4  | 7679.4  | 7578.8  | 8016.4  | 9826.9  | 15309.4 | 6783.0  | 5657.2  | 5279.6  |
| 80°   | 7051.2  | 5976.6  | 6435.4  | 6071.9  | 6292.4  | 6144.2  | 7273.5  | 2975.1  | 2436.9  | 2278.1  |
| 82.5° | 4256.1  | 3532.7  | 3825.6  | 3185.0  | 4030.3  | 3509.7  | 2802.1  | 952.9   | 827.6   | 787.0   |
| 85°   | 2768.6  | 1930.4  | 1005.8  | 674.1   | 1388.7  | 2242.8  | 626.4   | 259.4   | 199.4   | 158.8   |
| 87.5° | 954.6   | 492.3   | 49.4    | 21.2    | 148.2   | 418.2   | 22.9    | 0.0     | 0.0     | 0.0     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)