

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: P324411

Luminaire Tested: **GAN-SA7C-727-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324411  
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-SA7C-727-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 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: 31014 lumens  
Efficiency: N/A  
Efficacy: 79.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

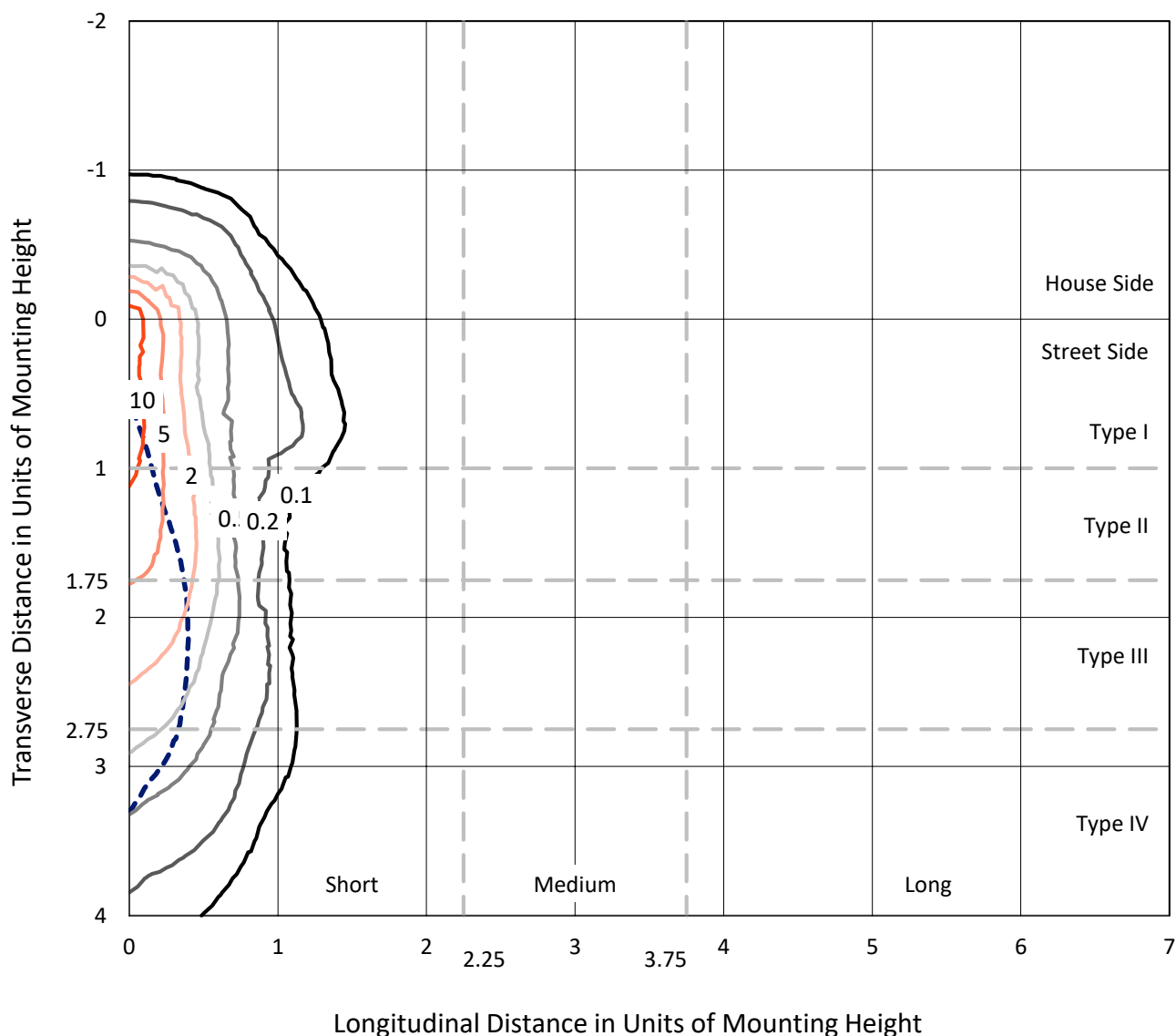
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

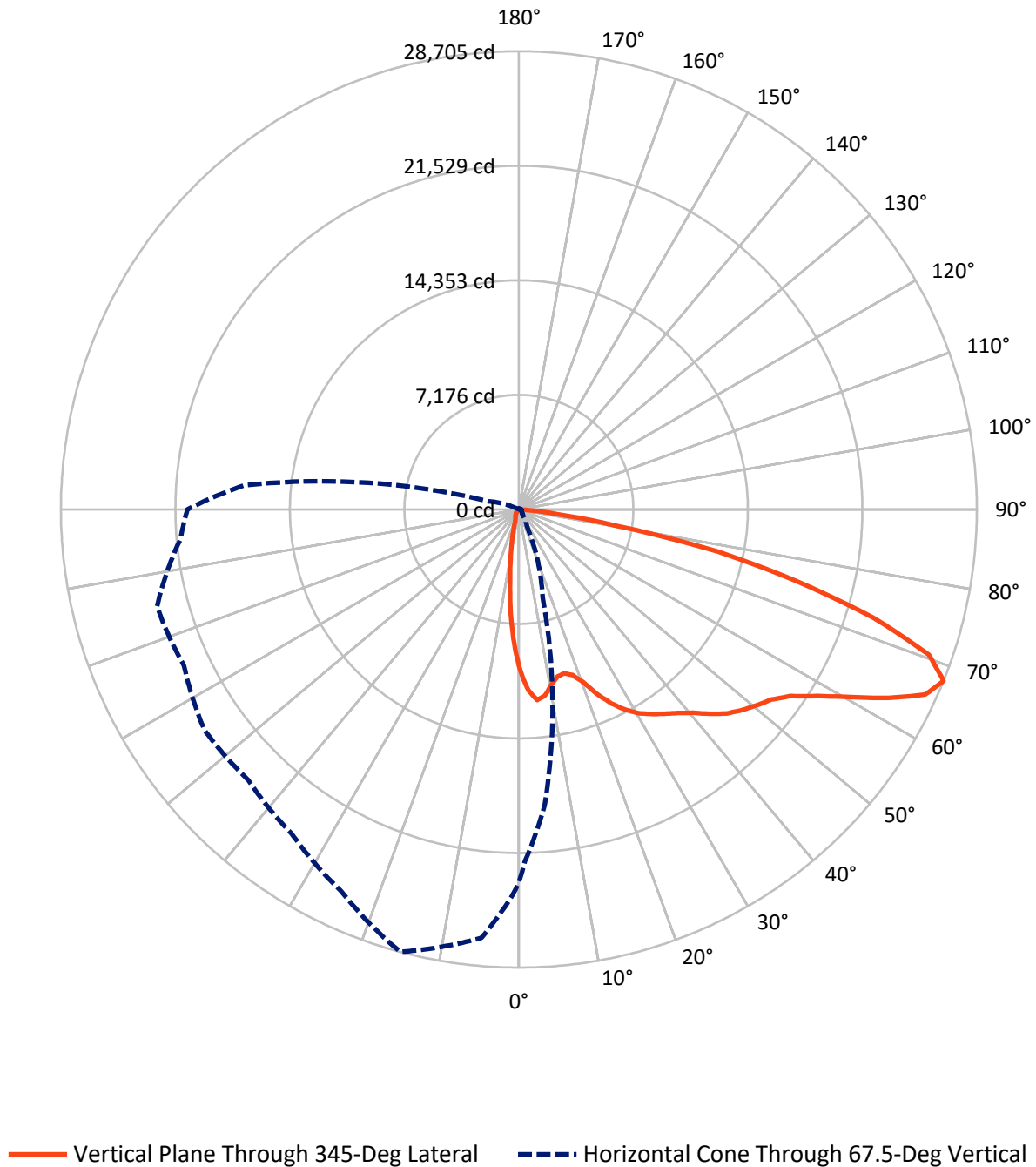
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 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    | 3753.7   | 0.0    | 3753.7  |
|                    | % Fixture | 12.1     | 0.0    | 12.1    |
| <b>Street Side</b> | Lumens    | 27260.3  | 0.0    | 27260.3 |
|                    | % Fixture | 87.9     | 0.0    | 87.9    |
| <b>Total</b>       | Lumens    | 31014.0  | 0.0    | 31014.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 775.4   | 2.5       |
| 10°-20°   | 1543.4  | 5.0       |
| 20°-30°   | 2191.6  | 7.1       |
| 30°-40°   | 3237.1  | 10.4      |
| 40°-50°   | 4668.6  | 15.1      |
| 50°-60°   | 6553.8  | 21.1      |
| 60°-70°   | 7639.8  | 24.6      |
| 70°-80°   | 3905.6  | 12.6      |
| 80°-90°   | 498.8   | 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°    | 31014.0 | 100.0     |
| 0°-180°   | 31014.0 | 100.0     |

**Coefficient of Utilization**



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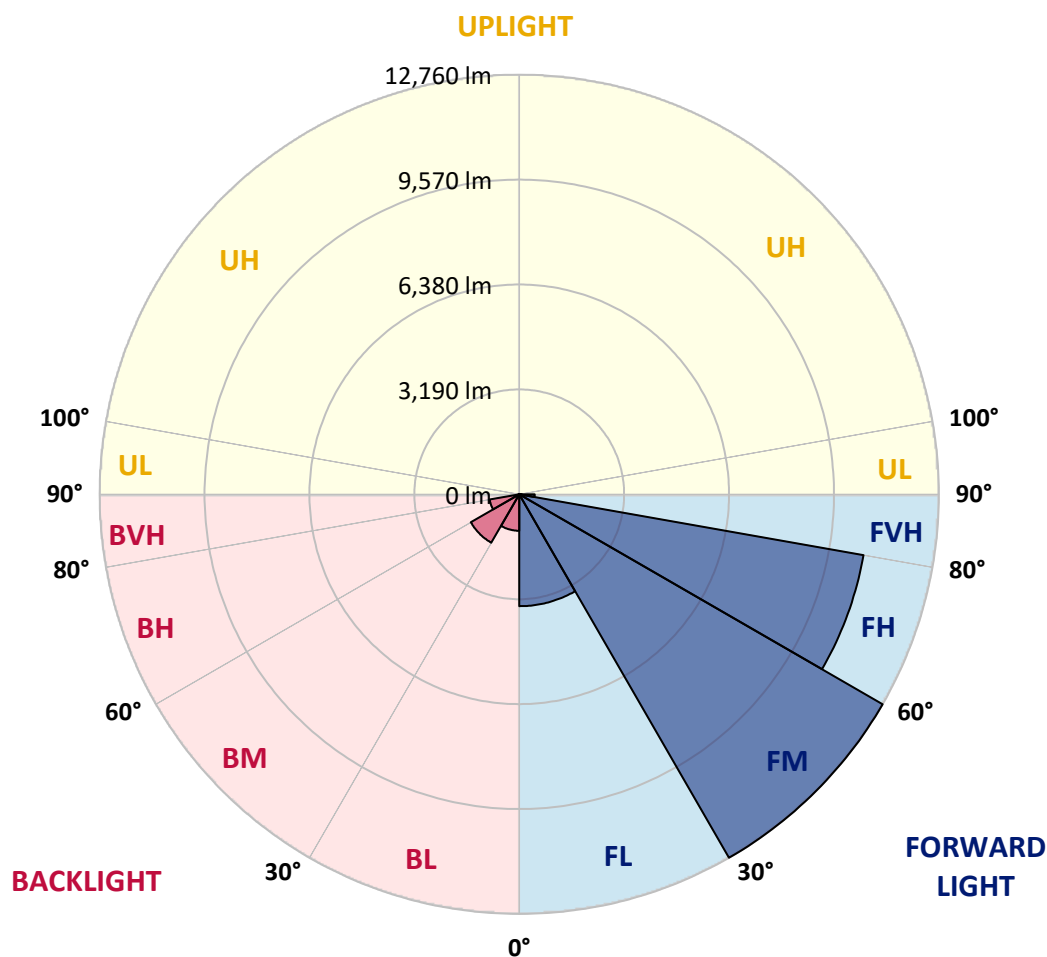
CATALOG NUMBER: GAN-SA7C-727-U-SLR-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3401.6  | 11.0      |                         |      |          |
| FM   | (30°-60°)   | 12759.7 | 41.1      |                         |      |          |
| FH   | (60°-80°)   | 10630.5 | 34.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 468.5   | 1.5       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1108.7  | 3.6       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 1699.8  | 5.5       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 914.9   | 2.9       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 30.3    | 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-G4**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 |
| 2.5°  | 11062.2 | 10977.0 | 10882.9 | 10575.9 | 10290.8 | 9964.6  | 9698.7  | 9513.6  | 9281.4  | 8980.2  | 8903.8  |
| 5°    | 10982.9 | 10891.8 | 10596.4 | 9913.2  | 9315.2  | 8733.4  | 8172.1  | 7843.0  | 7434.5  | 7020.2  | 6917.4  |
| 7.5°  | 10185.0 | 10089.5 | 9663.4  | 8727.5  | 7922.3  | 7081.9  | 6353.2  | 5902.1  | 5440.7  | 5061.7  | 4860.4  |
| 10°   | 9354.9  | 9250.6  | 8771.6  | 7635.8  | 6644.1  | 5884.5  | 5349.6  | 4919.1  | 4482.8  | 4077.2  | 3754.0  |
| 12.5° | 8783.3  | 8646.7  | 8126.6  | 6839.5  | 5975.6  | 5459.8  | 4960.3  | 4444.6  | 3853.9  | 3419.0  | 3063.4  |
| 15°   | 8543.8  | 8388.1  | 7838.6  | 6532.4  | 5739.0  | 5133.7  | 4482.8  | 3849.5  | 3157.5  | 2659.4  | 2333.2  |
| 17.5° | 8729.0  | 8526.2  | 7937.0  | 6511.8  | 5442.2  | 4617.9  | 3795.1  | 3051.7  | 2300.9  | 1796.9  | 1564.8  |
| 20°   | 9357.8  | 9091.9  | 8344.0  | 6506.0  | 5082.2  | 4005.3  | 2962.1  | 2121.6  | 1516.3  | 1219.5  | 1097.6  |
| 22.5° | 10348.1 | 9997.0  | 8928.8  | 6553.0  | 4710.5  | 3361.7  | 2139.3  | 1441.4  | 1138.7  | 984.4   | 912.4   |
| 25°   | 11544.1 | 11137.1 | 9770.7  | 6719.0  | 4384.3  | 2735.8  | 1554.5  | 1138.7  | 960.9   | 847.8   | 787.5   |
| 27.5° | 12681.3 | 12350.7 | 10834.5 | 6958.5  | 4131.6  | 2230.4  | 1262.1  | 965.3   | 821.3   | 746.4   | 697.9   |
| 30°   | 13817.1 | 13401.3 | 11926.1 | 7243.5  | 3827.5  | 1888.0  | 1109.3  | 880.1   | 736.1   | 656.8   | 625.9   |
| 32.5° | 14642.8 | 14297.5 | 12781.2 | 7449.2  | 3502.8  | 1664.7  | 991.8   | 805.2   | 687.6   | 606.8   | 561.3   |
| 35°   | 15614.0 | 15223.2 | 13514.4 | 7494.8  | 3294.1  | 1523.6  | 891.9   | 724.4   | 596.5   | 524.5   | 476.0   |
| 37.5° | 16663.1 | 16176.7 | 14360.7 | 7394.9  | 3131.0  | 1454.6  | 816.9   | 687.6   | 556.9   | 483.4   | 432.0   |
| 40°   | 17823.8 | 17274.3 | 15173.2 | 7250.9  | 2970.9  | 1431.1  | 759.6   | 659.7   | 526.0   | 451.1   | 398.2   |
| 42.5° | 19046.2 | 18398.3 | 15877.0 | 7099.5  | 2869.5  | 1350.3  | 753.7   | 631.8   | 502.5   | 421.7   | 368.8   |
| 45°   | 20073.3 | 19416.5 | 16599.9 | 7049.6  | 2797.5  | 1262.1  | 778.7   | 612.7   | 486.3   | 398.2   | 346.7   |
| 47.5° | 20891.7 | 20270.2 | 17340.4 | 7161.3  | 2756.4  | 1181.3  | 709.7   | 637.7   | 477.5   | 377.6   | 327.6   |
| 50°   | 21868.7 | 21164.9 | 18383.6 | 7494.8  | 2696.1  | 1100.5  | 642.1   | 730.2   | 477.5   | 364.4   | 311.5   |
| 52.5° | 23094.1 | 22397.7 | 19547.3 | 8012.0  | 2575.6  | 988.8   | 577.4   | 731.7   | 481.9   | 346.7   | 290.9   |
| 55°   | 24635.4 | 24129.9 | 21209.0 | 8579.1  | 2383.2  | 824.3   | 499.6   | 628.9   | 464.3   | 314.4   | 271.8   |
| 57.5° | 26113.5 | 25700.6 | 22723.8 | 8967.0  | 2126.0  | 643.5   | 434.9   | 506.9   | 424.6   | 276.2   | 242.4   |
| 59°   | 26517.5 | 26066.5 | 23279.2 | 8984.6  | 1933.6  | 561.3   | 402.6   | 418.7   | 415.8   | 258.6   | 224.8   |
| 60°   | 26517.5 | 26038.5 | 23439.4 | 8890.6  | 1794.0  | 515.7   | 382.0   | 373.2   | 433.4   | 246.8   | 214.5   |
| 62.5° | 26037.1 | 25364.1 | 22919.3 | 8254.4  | 1463.4  | 439.3   | 333.5   | 308.5   | 389.4   | 221.9   | 189.5   |
| 65°   | 25038.0 | 24058.0 | 21147.3 | 7104.0  | 1304.7  | 402.6   | 288.0   | 252.7   | 270.3   | 195.4   | 166.0   |
| 67.5° | 23371.8 | 22043.6 | 18592.2 | 5739.0  | 1241.5  | 392.3   | 248.3   | 214.5   | 204.2   | 167.5   | 145.5   |
| 70°   | 20437.7 | 18964.0 | 15490.6 | 4512.2  | 1187.2  | 387.9   | 208.6   | 180.7   | 164.6   | 141.1   | 123.4   |
| 72.5° | 14875.0 | 13338.1 | 10997.5 | 3527.7  | 1154.9  | 396.7   | 167.5   | 151.3   | 135.2   | 110.2   | 95.5    |
| 75°   | 8508.6  | 7502.1  | 6181.3  | 2330.3  | 984.4   | 379.1   | 129.3   | 126.4   | 97.0    | 79.3    | 66.1    |
| 77.5° | 4396.1  | 4262.4  | 3704.0  | 894.8   | 471.6   | 166.0   | 85.2    | 73.5    | 57.3    | 48.5    | 39.7    |
| 80°   | 1896.8  | 1876.3  | 1623.6  | 258.6   | 124.9   | 92.6    | 48.5    | 30.9    | 26.4    | 20.6    | 16.2    |
| 82.5° | 655.3   | 655.3   | 577.4   | 86.7    | 55.8    | 45.5    | 5.9     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 132.2   | 148.4   | 104.3   | 0.0     | 19.1    | 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°    | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 |
| 2.5°  | 8811.3  | 8633.5  | 8621.7  | 8510.1  | 8370.5  | 8307.3  | 8270.6  | 8335.2  | 8414.6  | 8423.4  | 8542.4  |
| 5°    | 6839.5  | 6652.9  | 6730.8  | 6532.4  | 6572.1  | 6532.4  | 6467.8  | 6479.5  | 6514.8  | 6404.6  | 6541.2  |
| 7.5°  | 4803.1  | 4662.0  | 4751.6  | 4698.7  | 4769.3  | 4797.2  | 4757.5  | 4698.7  | 4525.4  | 4504.8  | 4623.8  |
| 10°   | 3620.3  | 3460.1  | 3364.6  | 3264.7  | 3286.8  | 3332.3  | 3317.6  | 3275.0  | 3164.8  | 3170.7  | 3285.3  |
| 12.5° | 2909.2  | 2729.9  | 2540.4  | 2295.0  | 2234.8  | 2268.6  | 2234.8  | 2209.8  | 2104.0  | 2112.8  | 2214.2  |
| 15°   | 2206.9  | 2059.9  | 1861.6  | 1664.7  | 1557.4  | 1567.7  | 1473.7  | 1407.6  | 1341.5  | 1262.1  | 1323.8  |
| 17.5° | 1489.8  | 1400.2  | 1341.5  | 1282.7  | 1154.9  | 1125.5  | 1006.5  | 878.6   | 828.7   | 791.9   | 818.4   |
| 20°   | 1054.9  | 1006.5  | 982.9   | 980.0   | 906.5   | 869.8   | 753.7   | 674.4   | 649.4   | 642.1   | 658.2   |
| 22.5° | 881.6   | 846.3   | 812.5   | 793.4   | 756.7   | 714.1   | 625.9   | 586.2   | 568.6   | 559.8   | 571.5   |
| 25°   | 767.0   | 740.5   | 705.3   | 672.9   | 658.2   | 612.7   | 549.5   | 520.1   | 508.4   | 499.6   | 505.4   |
| 27.5° | 681.7   | 658.2   | 617.1   | 596.5   | 584.8   | 545.1   | 490.7   | 467.2   | 456.9   | 454.0   | 452.5   |
| 30°   | 614.2   | 592.1   | 553.9   | 530.4   | 509.8   | 474.6   | 442.3   | 418.7   | 408.5   | 405.5   | 402.6   |
| 32.5° | 546.6   | 528.9   | 504.0   | 480.5   | 458.4   | 426.1   | 398.2   | 379.1   | 362.9   | 360.0   | 358.5   |
| 35°   | 461.4   | 443.7   | 430.5   | 429.0   | 408.5   | 377.6   | 357.0   | 332.1   | 318.8   | 314.4   | 315.9   |
| 37.5° | 409.9   | 386.4   | 357.0   | 367.3   | 361.4   | 339.4   | 311.5   | 286.5   | 273.3   | 270.3   | 270.3   |
| 40°   | 377.6   | 352.6   | 318.8   | 301.2   | 318.8   | 314.4   | 270.3   | 245.4   | 232.1   | 230.7   | 227.7   |
| 42.5° | 346.7   | 321.8   | 283.6   | 254.2   | 263.0   | 276.2   | 233.6   | 210.1   | 196.9   | 193.9   | 189.5   |
| 45°   | 324.7   | 298.3   | 255.7   | 221.9   | 204.2   | 232.1   | 199.8   | 170.4   | 163.1   | 157.2   | 154.3   |
| 47.5° | 304.1   | 279.2   | 230.7   | 192.5   | 163.1   | 167.5   | 160.2   | 139.6   | 130.8   | 124.9   | 123.4   |
| 50°   | 286.5   | 260.1   | 208.6   | 164.6   | 135.2   | 123.4   | 129.3   | 110.2   | 102.8   | 97.0    | 94.0    |
| 52.5° | 265.9   | 241.0   | 185.1   | 142.5   | 113.1   | 97.0    | 98.4    | 86.7    | 79.3    | 74.9    | 73.5    |
| 55°   | 249.8   | 224.8   | 166.0   | 124.9   | 99.9    | 79.3    | 70.5    | 67.6    | 63.2    | 60.2    | 58.8    |
| 57.5° | 227.7   | 204.2   | 146.9   | 105.8   | 85.2    | 64.6    | 54.4    | 54.4    | 52.9    | 50.0    | 48.5    |
| 59°   | 214.5   | 193.9   | 135.2   | 95.5    | 77.9    | 55.8    | 48.5    | 50.0    | 48.5    | 45.5    | 44.1    |
| 60°   | 204.2   | 185.1   | 126.4   | 88.2    | 73.5    | 51.4    | 44.1    | 47.0    | 45.5    | 42.6    | 41.1    |
| 62.5° | 180.7   | 167.5   | 108.7   | 73.5    | 64.6    | 41.1    | 36.7    | 39.7    | 39.7    | 38.2    | 36.7    |
| 65°   | 158.7   | 144.0   | 92.6    | 61.7    | 60.2    | 35.3    | 29.4    | 35.3    | 36.7    | 33.8    | 30.9    |
| 67.5° | 138.1   | 123.4   | 80.8    | 50.0    | 55.8    | 27.9    | 22.0    | 29.4    | 39.7    | 30.9    | 27.9    |
| 70°   | 117.5   | 102.8   | 63.2    | 39.7    | 58.8    | 19.1    | 17.6    | 26.4    | 47.0    | 33.8    | 26.4    |
| 72.5° | 91.1    | 79.3    | 44.1    | 29.4    | 63.2    | 13.2    | 13.2    | 22.0    | 52.9    | 36.7    | 25.0    |
| 75°   | 63.2    | 51.4    | 26.4    | 17.6    | 51.4    | 8.8     | 8.8     | 20.6    | 50.0    | 33.8    | 23.5    |
| 77.5° | 36.7    | 27.9    | 8.8     | 1.5     | 26.4    | 0.0     | 1.5     | 14.7    | 35.3    | 20.6    | 10.3    |
| 80°   | 13.2    | 5.9     | 0.0     | 0.0     | 16.2    | 0.0     | 0.0     | 0.0     | 2.9     | 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°    | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 |
| 2.5°  | 8573.2  | 8771.6  | 8949.4  | 9218.2  | 9537.1  | 9904.4  | 10220.3 | 10559.7 | 10878.5 | 11010.8 | 11101.9 |
| 5°    | 6569.1  | 6814.5  | 7101.0  | 7496.3  | 8022.3  | 8670.2  | 9277.0  | 9963.2  | 10700.7 | 11069.5 | 11416.3 |
| 7.5°  | 4644.4  | 4894.2  | 5249.7  | 5669.9  | 6306.1  | 7077.5  | 7870.9  | 8818.6  | 9817.7  | 10401.0 | 10975.5 |
| 10°   | 3339.7  | 3646.7  | 3978.8  | 4553.3  | 5199.8  | 5931.5  | 6748.4  | 7806.3  | 8920.0  | 9566.5  | 10258.5 |
| 12.5° | 2273.0  | 2622.7  | 3125.2  | 3768.7  | 4528.3  | 5245.3  | 5955.0  | 6964.4  | 8257.3  | 8897.9  | 9639.9  |
| 15°   | 1363.5  | 1557.4  | 2089.3  | 2834.2  | 3765.8  | 4659.1  | 5436.3  | 6448.7  | 7826.8  | 8611.4  | 9382.8  |
| 17.5° | 840.4   | 930.1   | 1219.5  | 1830.7  | 2809.3  | 3939.1  | 5004.4  | 6273.8  | 7888.6  | 8843.6  | 9669.3  |
| 20°   | 670.0   | 705.3   | 797.8   | 1081.4  | 1861.6  | 3145.7  | 4518.0  | 6238.6  | 8392.5  | 9567.9  | 10453.9 |
| 22.5° | 581.8   | 615.6   | 677.3   | 786.1   | 1171.0  | 2355.3  | 4056.7  | 6270.9  | 9115.4  | 10653.7 | 11688.1 |
| 25°   | 512.8   | 542.2   | 600.9   | 690.6   | 858.1   | 1658.8  | 3563.0  | 6414.9  | 10057.2 | 12001.1 | 13100.1 |
| 27.5° | 458.4   | 483.4   | 537.8   | 620.0   | 736.1   | 1157.8  | 3003.2  | 6589.7  | 11173.9 | 13379.2 | 14463.6 |
| 30°   | 408.5   | 430.5   | 479.0   | 555.4   | 639.1   | 890.4   | 2389.0  | 6708.7  | 12292.0 | 14463.6 | 15437.7 |
| 32.5° | 365.9   | 382.0   | 426.1   | 490.7   | 555.4   | 709.7   | 1816.0  | 6689.6  | 13122.1 | 15365.7 | 16138.5 |
| 35°   | 321.8   | 337.9   | 376.1   | 432.0   | 483.4   | 586.2   | 1428.1  | 6332.6  | 13845.0 | 16301.6 | 16940.8 |
| 37.5° | 273.3   | 293.9   | 330.6   | 380.5   | 415.8   | 515.7   | 1154.9  | 5902.1  | 14578.2 | 17371.3 | 17835.6 |
| 40°   | 232.1   | 252.7   | 285.0   | 339.4   | 361.4   | 489.3   | 887.4   | 5377.6  | 15402.4 | 18567.3 | 18817.0 |
| 42.5° | 192.5   | 211.6   | 245.4   | 292.4   | 340.9   | 421.7   | 656.8   | 4778.1  | 16194.4 | 19589.9 | 19711.8 |
| 45°   | 155.7   | 174.8   | 210.1   | 257.1   | 364.4   | 349.7   | 508.4   | 4136.0  | 16833.5 | 20440.6 | 20480.3 |
| 47.5° | 123.4   | 141.1   | 177.8   | 242.4   | 339.4   | 279.2   | 362.9   | 3632.1  | 17369.8 | 21104.7 | 21000.4 |
| 50°   | 95.5    | 110.2   | 148.4   | 277.7   | 296.8   | 230.7   | 274.8   | 3464.6  | 17850.3 | 21516.1 | 21245.8 |
| 52.5° | 74.9    | 88.2    | 122.0   | 260.1   | 230.7   | 191.0   | 230.7   | 3621.8  | 18508.5 | 21857.0 | 21383.9 |
| 55°   | 60.2    | 73.5    | 95.5    | 148.4   | 157.2   | 161.6   | 196.9   | 3768.7  | 19644.2 | 22656.3 | 22199.3 |
| 57.5° | 50.0    | 63.2    | 77.9    | 104.3   | 119.0   | 136.6   | 174.8   | 3784.9  | 20982.8 | 23984.5 | 23552.5 |
| 59°   | 45.5    | 57.3    | 70.5    | 92.6    | 104.3   | 124.9   | 164.6   | 3696.7  | 21454.4 | 24467.9 | 24251.9 |
| 60°   | 42.6    | 54.4    | 66.1    | 85.2    | 97.0    | 117.5   | 158.7   | 3613.0  | 21475.0 | 24450.2 | 24550.2 |
| 62.5° | 36.7    | 48.5    | 58.8    | 72.0    | 82.3    | 99.9    | 142.5   | 3302.9  | 20605.1 | 23649.5 | 24370.9 |
| 65°   | 32.3    | 42.6    | 52.9    | 61.7    | 70.5    | 89.6    | 129.3   | 2737.3  | 19119.7 | 22358.0 | 23144.1 |
| 67.5° | 29.4    | 36.7    | 48.5    | 54.4    | 63.2    | 79.3    | 114.6   | 1951.2  | 17264.0 | 20778.5 | 21288.4 |
| 70°   | 26.4    | 35.3    | 44.1    | 50.0    | 57.3    | 69.1    | 98.4    | 1121.1  | 14578.2 | 18465.9 | 18828.8 |
| 72.5° | 25.0    | 33.8    | 39.7    | 47.0    | 51.4    | 61.7    | 89.6    | 527.5   | 10674.3 | 14792.7 | 15740.4 |
| 75°   | 22.0    | 30.9    | 36.7    | 44.1    | 48.5    | 55.8    | 76.4    | 252.7   | 7099.5  | 10705.2 | 11782.1 |
| 77.5° | 13.2    | 25.0    | 33.8    | 39.7    | 42.6    | 48.5    | 63.2    | 145.5   | 4531.3  | 7409.6  | 8727.5  |
| 80°   | 0.0     | 8.8     | 25.0    | 33.8    | 36.7    | 41.1    | 48.5    | 114.6   | 2424.3  | 4233.0  | 5080.8  |
| 82.5° | 0.0     | 0.0     | 17.6    | 26.4    | 25.0    | 27.9    | 36.7    | 72.0    | 1093.1  | 2766.6  | 3117.8  |
| 85°   | 0.0     | 0.0     | 5.9     | 20.6    | 17.6    | 13.2    | 25.0    | 25.0    | 239.5   | 1400.2  | 1747.0  |
| 87.5° | 0.0     | 0.0     | 0.0     | 1.5     | 8.8     | 5.9     | 10.3    | 2.9     | 1.5     | 104.3   | 423.2   |
| 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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|       | 285°    | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 359°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 | 10102.8 |
| 2.5°  | 11420.7 | 11529.4 | 11713.1 | 11799.8 | 11757.2 | 11576.4 | 11360.5 | 11140.1 | 11010.8 | 11062.2 |
| 5°    | 12123.0 | 12682.8 | 13006.0 | 13113.3 | 12934.1 | 12528.5 | 11998.1 | 11298.7 | 11050.4 | 10982.9 |
| 7.5°  | 12123.0 | 13176.5 | 13843.5 | 13961.1 | 13561.4 | 12766.6 | 11771.9 | 10680.2 | 10317.3 | 10185.0 |
| 10°   | 11696.9 | 13130.9 | 14061.0 | 14247.6 | 13689.3 | 12500.6 | 11168.0 | 9922.0  | 9491.5  | 9354.9  |
| 12.5° | 11216.5 | 12760.7 | 13740.7 | 13997.8 | 13539.4 | 12236.1 | 10749.2 | 9409.3  | 8902.4  | 8783.3  |
| 15°   | 10921.1 | 12305.2 | 13116.2 | 13302.8 | 13108.9 | 12081.9 | 10649.3 | 9255.0  | 8658.5  | 8543.8  |
| 17.5° | 11026.9 | 11952.6 | 12245.0 | 12353.7 | 12484.5 | 12027.5 | 10921.1 | 9592.9  | 8837.7  | 8729.0  |
| 20°   | 11425.1 | 11580.8 | 11429.5 | 11566.2 | 11918.8 | 12080.4 | 11569.1 | 10409.8 | 9503.3  | 9357.8  |
| 22.5° | 12101.0 | 11388.4 | 10963.7 | 11018.1 | 11447.1 | 12255.2 | 12559.4 | 11576.4 | 10530.3 | 10348.1 |
| 25°   | 12888.5 | 11544.1 | 10705.2 | 10656.7 | 11097.5 | 12485.9 | 13464.5 | 12845.9 | 11745.4 | 11544.1 |
| 27.5° | 13878.8 | 11893.8 | 10652.3 | 10603.8 | 10975.5 | 12701.9 | 14216.7 | 14100.7 | 13025.1 | 12681.3 |
| 30°   | 14642.8 | 12237.6 | 10809.5 | 10697.8 | 11097.5 | 12851.8 | 14820.6 | 15165.9 | 14044.8 | 13817.1 |
| 32.5° | 15190.9 | 12643.1 | 11065.1 | 10903.5 | 11441.3 | 13110.4 | 15286.4 | 16141.5 | 14988.1 | 14642.8 |
| 35°   | 15608.1 | 13083.9 | 11478.0 | 11212.1 | 11914.4 | 13502.7 | 15722.7 | 17180.3 | 15991.6 | 15614.0 |
| 37.5° | 15999.0 | 13702.5 | 12123.0 | 11805.6 | 12656.4 | 14134.5 | 16184.1 | 18358.6 | 17114.1 | 16663.1 |
| 40°   | 16544.1 | 14403.3 | 13117.7 | 12835.6 | 13903.8 | 14995.4 | 16760.0 | 19586.9 | 18390.9 | 17823.8 |
| 42.5° | 17089.2 | 15155.6 | 14135.9 | 14212.3 | 15459.7 | 16041.6 | 17503.5 | 20885.8 | 19651.6 | 19046.2 |
| 45°   | 17587.3 | 15931.4 | 15586.1 | 15938.7 | 16904.0 | 17189.1 | 18242.6 | 21636.6 | 20658.0 | 20073.3 |
| 47.5° | 18031.0 | 16901.1 | 17027.5 | 17966.3 | 18546.7 | 18227.9 | 18795.0 | 22284.5 | 21407.4 | 20891.7 |
| 50°   | 18546.7 | 18155.9 | 18927.2 | 20255.5 | 20437.7 | 19168.2 | 19297.5 | 23051.5 | 22283.1 | 21868.7 |
| 52.5° | 19110.9 | 19478.2 | 21031.2 | 22202.3 | 22143.5 | 20189.3 | 19802.9 | 23911.0 | 23483.5 | 23094.1 |
| 55°   | 19751.5 | 20546.4 | 22884.0 | 24024.2 | 23974.2 | 21329.5 | 20640.4 | 24973.3 | 24988.0 | 24635.4 |
| 57.5° | 20702.1 | 21466.1 | 24141.7 | 25497.8 | 25581.6 | 22646.0 | 22059.7 | 26163.4 | 26348.6 | 26113.5 |
| 59°   | 21383.9 | 22062.7 | 24639.8 | 26113.5 | 26454.3 | 23664.2 | 23097.0 | 26854.0 | 26732.0 | 26517.5 |
| 60°   | 21889.3 | 22441.7 | 24886.6 | 26435.2 | 26961.2 | 24354.7 | 23862.5 | 27259.5 | 26777.6 | 26517.5 |
| 62.5° | 23139.7 | 23267.5 | 25331.8 | 26799.6 | 27544.5 | 25888.7 | 26016.5 | 27950.1 | 26461.7 | 26037.1 |
| 65°   | 23723.0 | 23789.1 | 25325.9 | 26147.3 | 26980.3 | 27083.2 | 27970.6 | 27970.6 | 25690.3 | 25038.0 |
| 67.5° | 23479.1 | 23160.2 | 24069.7 | 23984.5 | 24816.1 | 26373.5 | 28705.3 | 26945.1 | 24215.2 | 23371.8 |
| 70°   | 21495.5 | 20268.7 | 19864.6 | 19901.4 | 20537.6 | 22939.8 | 27250.7 | 23927.2 | 21423.5 | 20437.7 |
| 72.5° | 17885.5 | 14942.6 | 13944.9 | 15083.6 | 15249.6 | 17629.9 | 23223.4 | 18019.2 | 15799.1 | 14875.0 |
| 75°   | 14385.7 | 10533.3 | 8911.2  | 10113.0 | 10395.1 | 12901.7 | 17964.9 | 11222.3 | 9228.5  | 8508.6  |
| 77.5° | 10334.9 | 7560.9  | 6394.3  | 6310.5  | 6674.9  | 8182.4  | 12747.5 | 5647.9  | 4710.5  | 4396.1  |
| 80°   | 5871.2  | 4976.4  | 5358.5  | 5055.8  | 5239.4  | 5116.0  | 6056.4  | 2477.2  | 2029.1  | 1896.8  |
| 82.5° | 3543.9  | 2941.5  | 3185.4  | 2652.0  | 3355.8  | 2922.4  | 2333.2  | 793.4   | 689.1   | 655.3   |
| 85°   | 2305.3  | 1607.4  | 837.5   | 561.3   | 1156.3  | 1867.5  | 521.6   | 216.0   | 166.0   | 132.2   |
| 87.5° | 794.9   | 409.9   | 41.1    | 17.6    | 123.4   | 348.2   | 19.1    | 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)