

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: P318653

Luminaire Tested: **GAN-SA9C-727-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318653  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9C-727-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53199 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

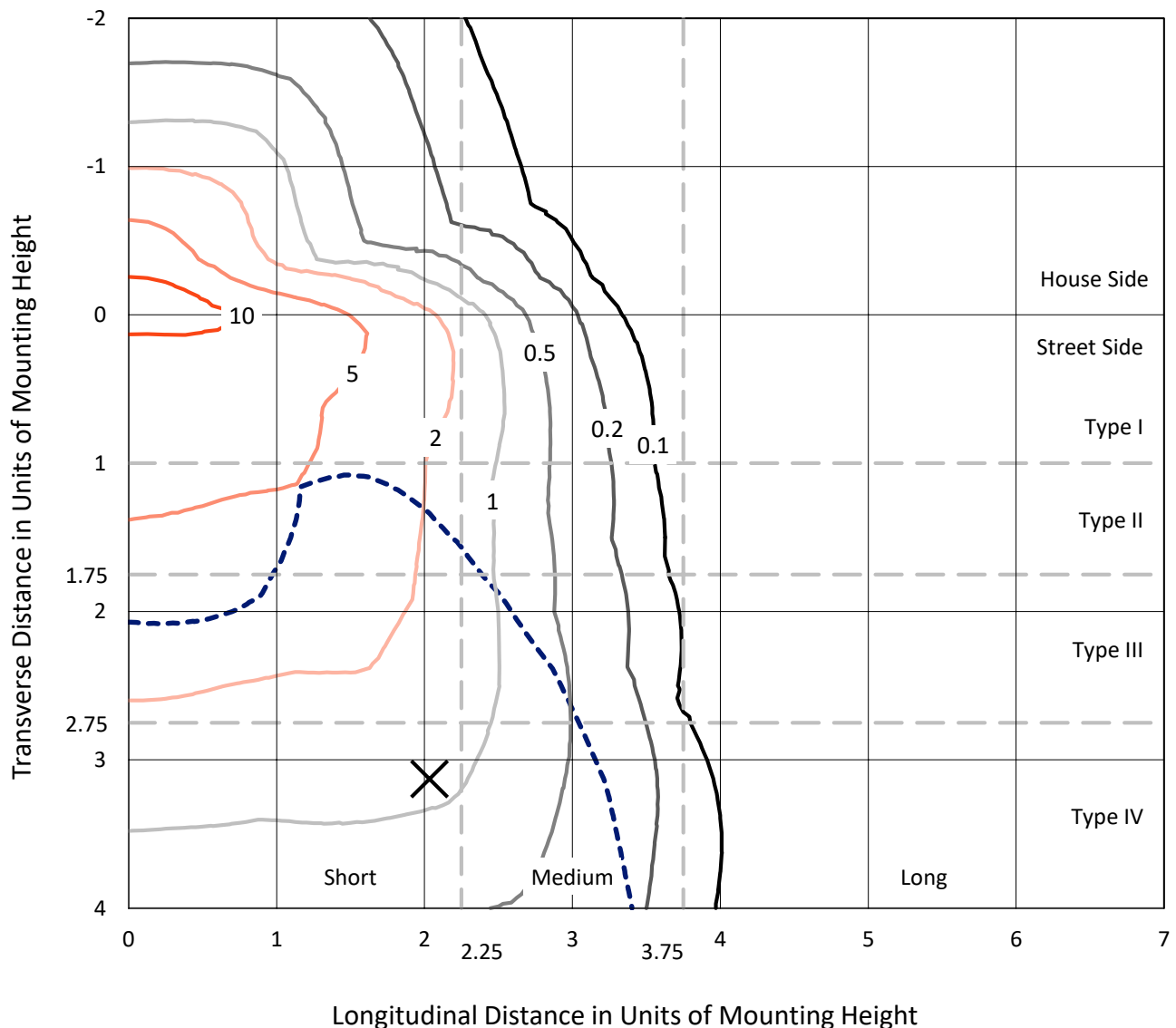
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

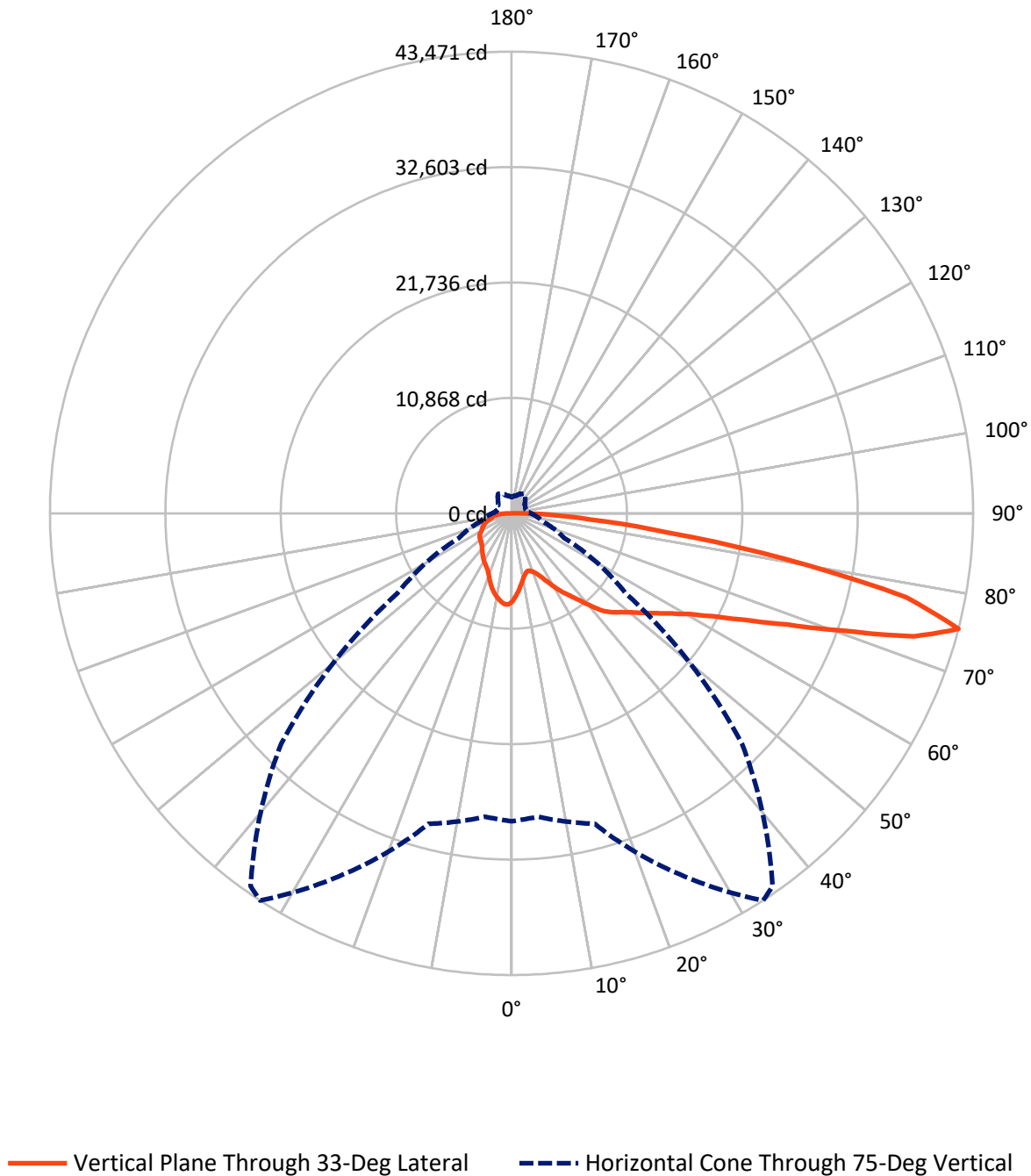
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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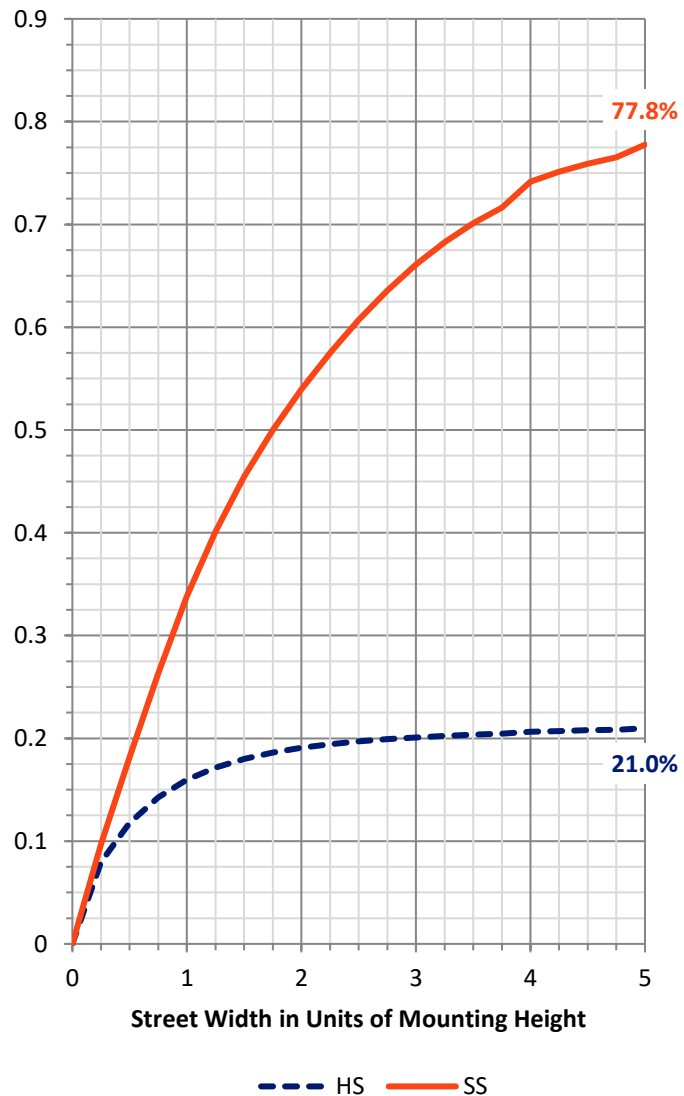
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11423.2  | 0.0    | 11423.2 |
|                    | % Fixture | 21.5     | 0.0    | 21.5    |
| <b>Street Side</b> | Lumens    | 41775.8  | 0.0    | 41775.8 |
|                    | % Fixture | 78.5     | 0.0    | 78.5    |
| <b>Total</b>       | Lumens    | 53199.0  | 0.0    | 53199.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 752.0   | 1.4       |
| 10°-20°   | 2036.8  | 3.8       |
| 20°-30°   | 3326.4  | 6.3       |
| 30°-40°   | 4953.7  | 9.3       |
| 40°-50°   | 7105.0  | 13.4      |
| 50°-60°   | 9754.0  | 18.3      |
| 60°-70°   | 12211.6 | 23.0      |
| 70°-80°   | 11047.3 | 20.8      |
| 80°-90°   | 2012.3  | 3.8       |
| 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°    | 53199.0 | 100.0     |
| 0°-180°   | 53199.0 | 100.0     |

**Coefficient of Utilization**



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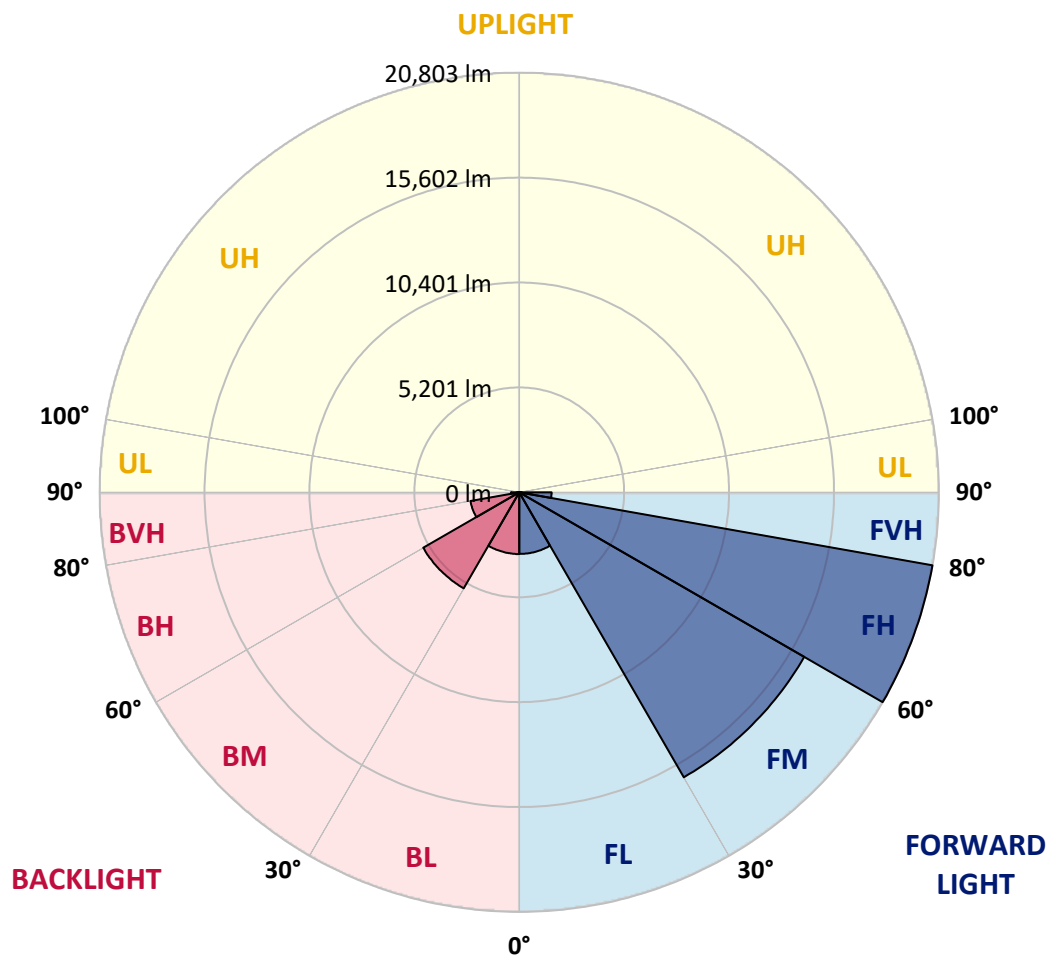
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3055.5  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 16315.0 | 30.7      |                         |      |         |
| FH   | (60°-80°)   | 20802.7 | 39.1      |                         |      | G5      |
| FVH  | (80°-90°)   | 1602.6  | 3.0       |                         |      | G5      |
| BL   | (0°-30°)    | 3059.7  | 5.8       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 5497.7  | 10.3      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2456.2  | 4.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 409.7   | 0.8       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 33°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8315.3  | 8315.3  | 8315.3  | 8315.3  | 8315.3  | 8315.3  | 8315.3  | 8315.3  | 8315.3  | 8315.3  | 8315.3  |
| 2.5°  | 7721.7  | 7692.3  | 7747.5  | 7754.8  | 7802.6  | 7821.0  | 7887.1  | 7990.0  | 8074.6  | 8172.0  | 8260.2  |
| 5°    | 7021.6  | 7001.4  | 7078.6  | 7133.7  | 7238.4  | 7282.6  | 7438.7  | 7657.4  | 7852.2  | 8072.7  | 8273.0  |
| 7.5°  | 6356.4  | 6345.4  | 6431.7  | 6556.7  | 6678.0  | 6738.6  | 7008.7  | 7326.7  | 7651.9  | 8008.4  | 8315.3  |
| 10°   | 5795.9  | 5792.2  | 5874.9  | 5998.0  | 6176.3  | 6244.3  | 6593.4  | 7012.4  | 7468.2  | 7958.8  | 8387.0  |
| 12.5° | 5481.7  | 5494.5  | 5533.1  | 5636.0  | 5801.4  | 5869.4  | 6257.1  | 6749.6  | 7313.8  | 7942.3  | 8491.7  |
| 15°   | 5558.8  | 5579.1  | 5512.9  | 5509.2  | 5626.8  | 5680.1  | 6044.0  | 6562.2  | 7203.5  | 7969.8  | 8644.2  |
| 17.5° | 5887.8  | 5891.5  | 5716.9  | 5606.6  | 5678.3  | 5705.9  | 5977.8  | 6455.6  | 7139.2  | 8032.3  | 8835.4  |
| 20°   | 6350.9  | 6341.7  | 6033.0  | 5849.2  | 5887.8  | 5895.1  | 6071.5  | 6457.5  | 7133.7  | 8140.7  | 9083.4  |
| 22.5° | 6964.6  | 6896.6  | 6481.3  | 6231.4  | 6222.2  | 6211.2  | 6312.3  | 6593.4  | 7214.6  | 8317.1  | 9379.3  |
| 25°   | 7765.8  | 7701.5  | 7130.0  | 6788.2  | 6714.7  | 6687.2  | 6701.9  | 6883.8  | 7374.4  | 8506.4  | 9710.1  |
| 27.5° | 8657.1  | 8545.0  | 7993.7  | 7510.4  | 7357.9  | 7319.3  | 7231.1  | 7293.6  | 7549.0  | 8688.3  | 10103.3 |
| 30°   | 9403.2  | 9342.5  | 8861.1  | 8287.7  | 8107.6  | 8052.5  | 7821.0  | 7753.0  | 7800.8  | 8936.4  | 10599.5 |
| 32.5° | 9820.3  | 9779.9  | 9487.7  | 9024.6  | 8857.4  | 8780.2  | 8453.1  | 8317.1  | 8205.0  | 9327.8  | 11272.1 |
| 35°   | 10325.7 | 10299.9 | 10123.5 | 9787.2  | 9539.2  | 9458.3  | 9204.7  | 9063.2  | 8774.7  | 9866.3  | 12141.3 |
| 37.5° | 10968.8 | 10941.3 | 10945.0 | 10673.0 | 10377.1 | 10301.8 | 10134.6 | 9985.7  | 9513.4  | 10573.8 | 13085.8 |
| 40°   | 11696.6 | 11643.3 | 11623.0 | 11610.2 | 11422.7 | 11380.5 | 11292.3 | 11090.1 | 10439.6 | 11419.1 | 14017.5 |
| 42.5° | 12791.8 | 12602.5 | 12198.2 | 12350.8 | 12536.4 | 12514.3 | 12586.0 | 12295.6 | 11468.7 | 12418.7 | 14927.1 |
| 45°   | 13848.4 | 13537.9 | 12839.6 | 12872.6 | 13278.8 | 13401.9 | 13938.5 | 13732.7 | 12584.1 | 13514.0 | 15868.0 |
| 47.5° | 14329.9 | 14094.7 | 13501.1 | 13502.9 | 13905.4 | 14160.8 | 15336.9 | 15189.9 | 13756.5 | 14758.1 | 17016.5 |
| 50°   | 14868.3 | 14633.1 | 14100.2 | 14300.5 | 14651.5 | 14923.4 | 16687.6 | 16612.2 | 14872.0 | 16119.7 | 18392.9 |
| 52.5° | 15456.4 | 15057.6 | 14719.5 | 15077.8 | 15570.3 | 15886.4 | 18040.1 | 17834.3 | 15895.5 | 17490.6 | 19975.1 |
| 55°   | 15463.7 | 15355.3 | 15612.6 | 15875.3 | 16612.2 | 17000.0 | 19456.9 | 18912.9 | 16729.8 | 18837.6 | 21263.3 |
| 57.5° | 16343.9 | 16167.5 | 16713.3 | 16834.6 | 17797.5 | 18234.9 | 20866.4 | 19852.0 | 17578.8 | 19870.4 | 21957.9 |
| 60°   | 17509.0 | 17358.3 | 17804.9 | 18124.6 | 19263.9 | 19848.3 | 22371.4 | 20816.7 | 18245.9 | 20649.5 | 21924.8 |
| 62.5° | 19521.2 | 19350.3 | 19344.8 | 19793.2 | 21327.6 | 22007.5 | 24060.2 | 21763.1 | 18510.5 | 20803.9 | 20989.5 |
| 65°   | 22466.9 | 22195.0 | 21682.3 | 21895.4 | 24177.8 | 24855.9 | 25947.4 | 22448.6 | 18161.4 | 19976.9 | 18580.3 |
| 67.5° | 25333.6 | 25324.5 | 24694.1 | 25131.5 | 27941.3 | 28485.2 | 28097.5 | 22516.6 | 17071.6 | 17097.4 | 14306.0 |
| 70°   | 28191.2 | 28227.9 | 28121.3 | 29642.9 | 33026.0 | 33592.0 | 30387.1 | 21603.2 | 14622.1 | 12347.1 | 8570.7  |
| 72.5° | 30455.1 | 30445.9 | 30982.5 | 34905.9 | 39624.9 | 39498.1 | 32316.7 | 18835.8 | 10498.4 | 6665.1  | 4096.1  |
| 75°   | 28988.7 | 28669.0 | 30267.7 | 37511.7 | 43471.1 | 42851.8 | 30675.7 | 13139.1 | 5448.6  | 3033.9  | 2205.2  |
| 77.5° | 18907.4 | 19210.6 | 21557.3 | 30988.1 | 38024.4 | 37270.9 | 22505.5 | 6130.4  | 2567.2  | 1990.2  | 1598.7  |
| 80°   | 6847.0  | 7166.8  | 10094.1 | 17553.1 | 26197.3 | 26074.2 | 11082.8 | 2519.4  | 1736.6  | 1503.2  | 1165.1  |
| 82.5° | 2355.8  | 2473.5  | 3982.2  | 7795.3  | 14791.1 | 15342.4 | 4169.6  | 1431.5  | 1262.5  | 1065.8  | 797.5   |
| 85°   | 924.3   | 1058.5  | 1821.1  | 3750.6  | 7460.8  | 7515.9  | 1688.8  | 856.3   | 878.4   | 698.3   | 437.4   |
| 87.5° | 351.0   | 426.3   | 871.0   | 1742.1  | 3407.0  | 3129.5  | 604.6   | 408.0   | 499.8   | 415.3   | 207.7   |
| 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°    | 8315.3  | 8315.3  | 8315.3 | 8315.3 | 8315.3 | 8315.3 | 8315.3 | 8315.3 | 8315.3 | 8315.3 | 8315.3 |
| 2.5°  | 8328.2  | 8366.8  | 8447.6 | 8502.7 | 8561.5 | 8578.1 | 8585.4 | 8600.1 | 8614.8 | 8609.3 | 8611.2 |
| 5°    | 8379.6  | 8455.0  | 8585.4 | 8640.6 | 8666.3 | 8636.9 | 8579.9 | 8534.0 | 8500.9 | 8482.5 | 8477.0 |
| 7.5°  | 8464.2  | 8570.7  | 8710.4 | 8701.2 | 8642.4 | 8511.9 | 8364.9 | 8254.7 | 8162.8 | 8129.7 | 8111.3 |
| 10°   | 8576.2  | 8701.2  | 8798.6 | 8693.9 | 8523.0 | 8296.9 | 8076.4 | 7905.5 | 7767.7 | 7714.4 | 7705.2 |
| 12.5° | 8719.6  | 8846.4  | 8864.8 | 8642.4 | 8359.4 | 8050.7 | 7751.1 | 7525.1 | 7319.3 | 7253.1 | 7238.4 |
| 15°   | 8905.2  | 9024.6  | 8910.7 | 8552.4 | 8157.3 | 7742.0 | 7354.2 | 7047.3 | 6830.5 | 6749.6 | 6720.2 |
| 17.5° | 9100.0  | 9213.9  | 8919.9 | 8403.5 | 7892.6 | 7376.3 | 6889.3 | 6575.1 | 6327.0 | 6233.3 | 6222.2 |
| 20°   | 9333.4  | 9384.8  | 8881.3 | 8190.3 | 7528.8 | 6902.2 | 6389.5 | 6093.6 | 5961.3 | 5895.1 | 5887.8 |
| 22.5° | 9621.9  | 9566.7  | 8793.1 | 7901.8 | 7067.5 | 6354.5 | 5937.4 | 5799.6 | 5766.5 | 5751.8 | 5757.3 |
| 25°   | 9926.9  | 9757.8  | 8662.6 | 7525.1 | 6485.0 | 5806.9 | 5606.6 | 5645.2 | 5689.3 | 5683.8 | 5683.8 |
| 27.5° | 10263.2 | 9952.6  | 8462.3 | 7025.3 | 5840.0 | 5358.5 | 5382.4 | 5523.9 | 5590.1 | 5588.3 | 5586.4 |
| 30°   | 10695.0 | 10173.2 | 8206.9 | 6424.4 | 5237.3 | 5042.5 | 5187.6 | 5360.4 | 5450.4 | 5446.8 | 5448.6 |
| 32.5° | 11226.1 | 10415.7 | 7859.6 | 5753.6 | 4801.7 | 4809.1 | 4976.3 | 5147.2 | 5252.0 | 5242.8 | 5244.6 |
| 35°   | 11847.2 | 10687.7 | 7389.1 | 5092.1 | 4513.2 | 4623.5 | 4755.8 | 4875.2 | 4974.5 | 4961.6 | 4948.8 |
| 37.5° | 12523.5 | 10954.1 | 6764.3 | 4500.4 | 4278.0 | 4450.8 | 4561.0 | 4581.2 | 4627.2 | 4594.1 | 4570.2 |
| 40°   | 13166.7 | 11158.1 | 5959.5 | 4015.2 | 4041.0 | 4303.7 | 4375.4 | 4294.6 | 4211.9 | 4200.8 | 4167.8 |
| 42.5° | 13727.1 | 11226.1 | 5145.4 | 3627.5 | 3791.0 | 4149.4 | 4193.5 | 4024.4 | 3875.6 | 3805.7 | 3776.3 |
| 45°   | 14318.9 | 11250.0 | 4386.4 | 3302.2 | 3550.3 | 4011.6 | 4059.3 | 3833.3 | 3623.8 | 3473.1 | 3423.5 |
| 47.5° | 15092.5 | 11422.7 | 3796.6 | 3061.5 | 3366.5 | 3919.7 | 3987.7 | 3680.8 | 3408.8 | 3193.8 | 3147.9 |
| 50°   | 16105.0 | 11764.5 | 3316.9 | 2877.7 | 3247.1 | 3859.0 | 3936.2 | 3531.9 | 3232.4 | 2973.3 | 2927.4 |
| 52.5° | 17229.7 | 12078.8 | 2929.2 | 2728.9 | 3131.3 | 3752.5 | 3870.1 | 3425.4 | 3067.0 | 2769.3 | 2719.7 |
| 55°   | 18016.2 | 11838.0 | 2616.8 | 2574.5 | 2980.6 | 3599.9 | 3778.2 | 3335.3 | 2830.0 | 2570.9 | 2526.7 |
| 57.5° | 18166.9 | 11014.8 | 2379.7 | 2414.7 | 2798.7 | 3408.8 | 3636.7 | 3135.0 | 2701.3 | 2484.5 | 2438.5 |
| 60°   | 17755.2 | 9868.1  | 2203.3 | 2267.6 | 2603.9 | 3168.1 | 3372.1 | 2993.5 | 2578.2 | 2392.6 | 2354.0 |
| 62.5° | 16720.6 | 8693.9  | 2072.9 | 2135.3 | 2422.0 | 2923.7 | 3206.7 | 2844.7 | 2453.2 | 2287.9 | 2249.3 |
| 65°   | 14631.3 | 7299.1  | 1947.9 | 2017.7 | 2252.9 | 2712.4 | 3057.8 | 2706.8 | 2330.1 | 2203.3 | 2166.6 |
| 67.5° | 11044.2 | 5467.0  | 1830.3 | 1892.8 | 2102.3 | 2528.6 | 2896.1 | 2570.9 | 2210.7 | 2129.8 | 2085.7 |
| 70°   | 6503.4  | 3423.5  | 1696.1 | 1762.3 | 1944.2 | 2337.5 | 2723.4 | 2422.0 | 2061.8 | 2025.1 | 1968.1 |
| 72.5° | 3026.6  | 2060.0  | 1543.6 | 1607.9 | 1745.8 | 2082.0 | 2501.0 | 2227.2 | 1885.4 | 1804.6 | 1727.4 |
| 75°   | 1806.4  | 1506.9  | 1363.5 | 1420.5 | 1517.9 | 1810.1 | 2221.7 | 2028.7 | 1718.2 | 1611.6 | 1530.8 |
| 77.5° | 1350.7  | 1152.2  | 1165.1 | 1225.7 | 1304.7 | 1584.0 | 1968.1 | 1872.6 | 1589.6 | 1506.9 | 1451.7 |
| 80°   | 972.1   | 874.7   | 950.1  | 1016.2 | 1098.9 | 1440.7 | 1885.4 | 1731.1 | 1437.0 | 1326.8 | 1275.3 |
| 82.5° | 648.7   | 628.5   | 714.8  | 782.8  | 863.7  | 1260.6 | 1771.5 | 1516.0 | 1227.5 | 1087.9 | 973.9  |
| 85°   | 358.3   | 378.6   | 481.5  | 510.9  | 580.7  | 887.6  | 1451.7 | 1218.4 | 924.3  | 744.2  | 711.2  |
| 87.5° | 148.8   | 174.6   | 259.1  | 249.9  | 308.7  | 529.2  | 955.6  | 735.1  | 588.0  | 439.2  | 341.8  |
| 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)