

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: P533258

Luminaire Tested: **GLAN-SA8C-830-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533258  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8C-830-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37840 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

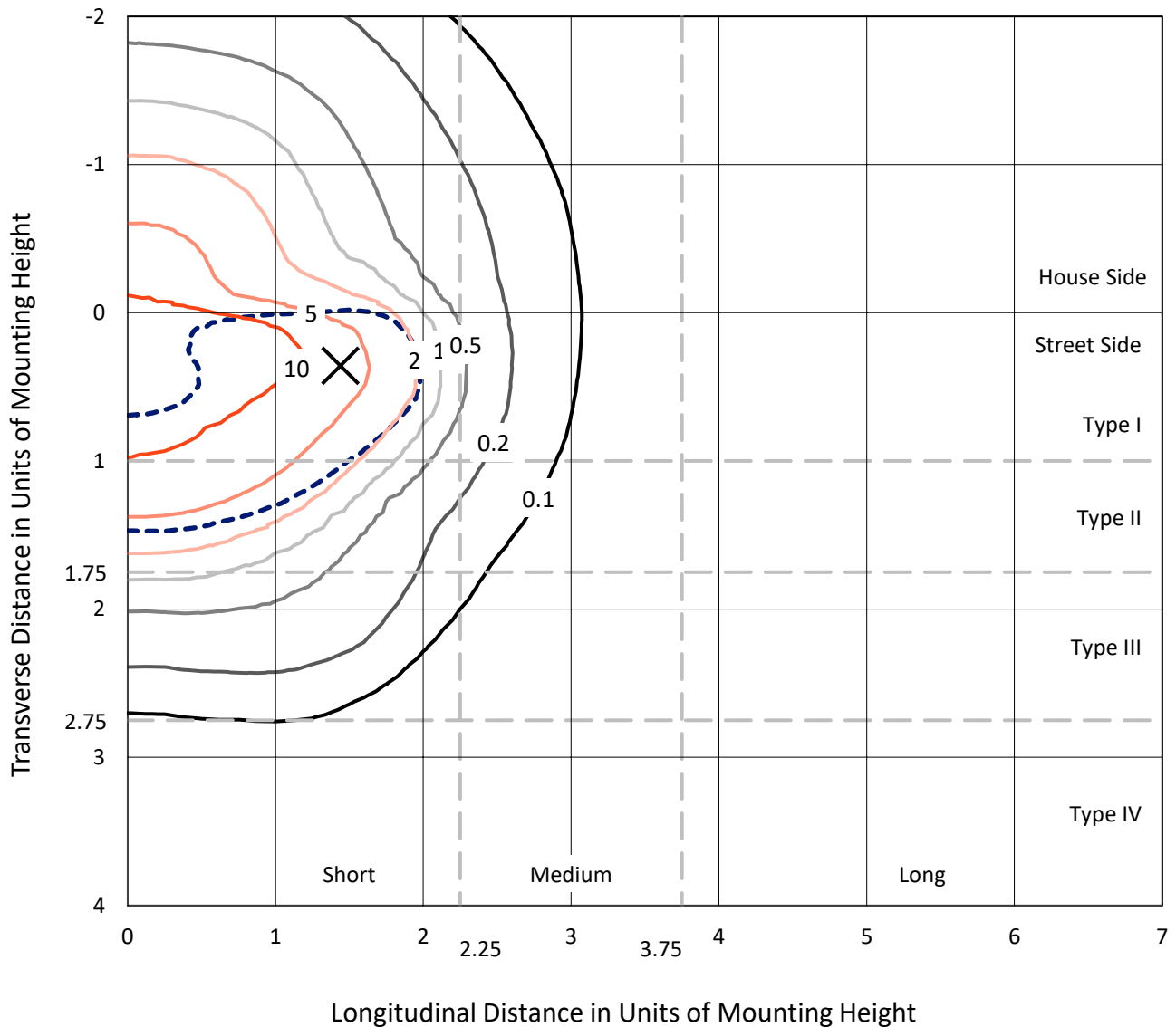
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

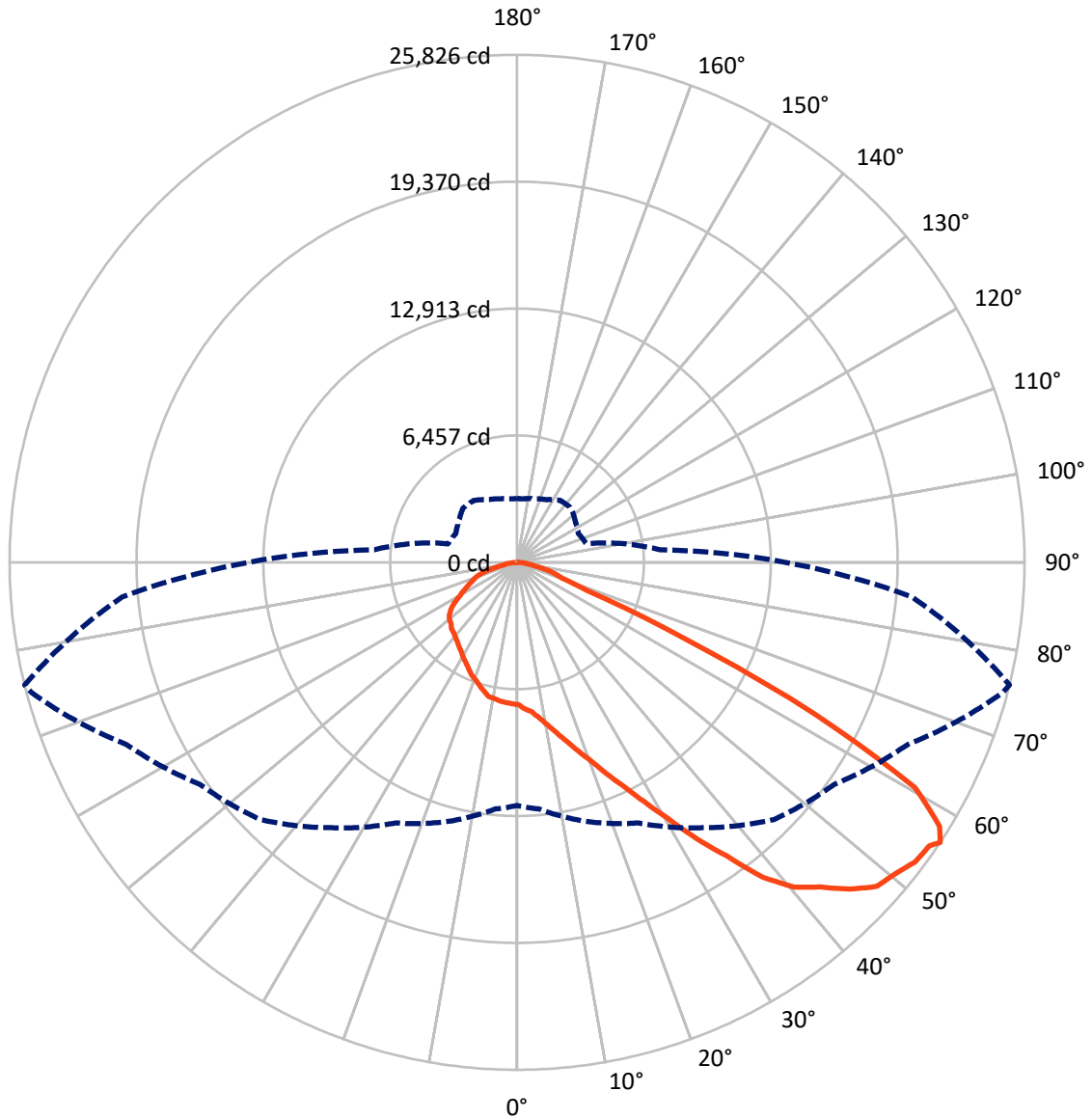
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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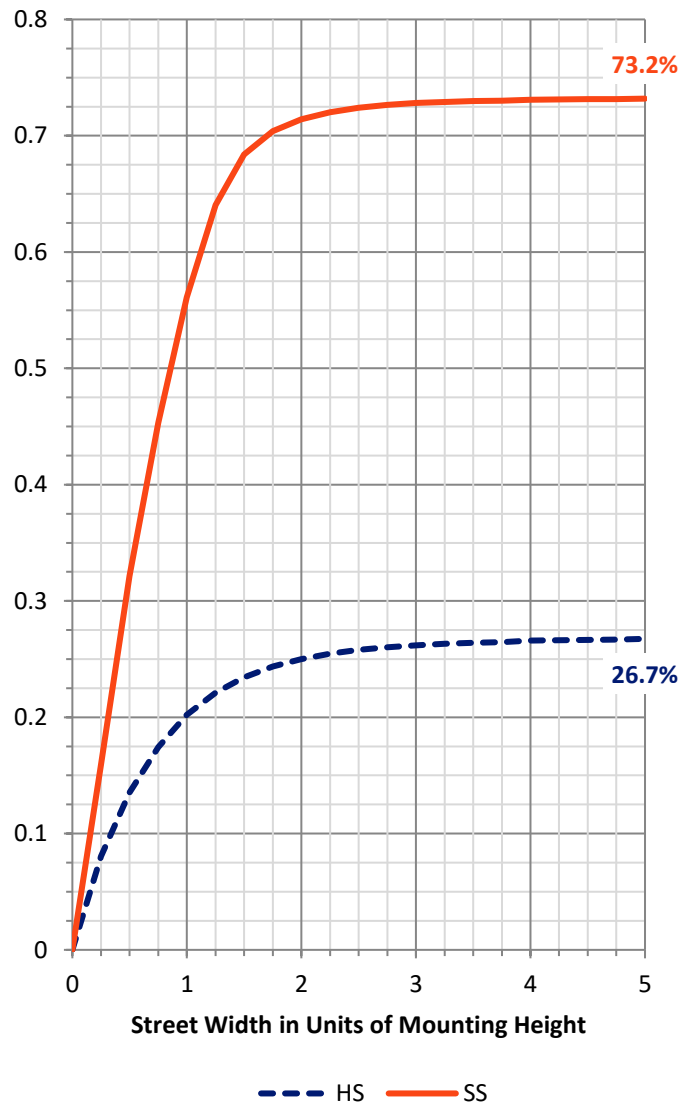
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10174.0  | 0.0    | 10174.0 |
|                    | % Fixture | 26.9     | 0.0    | 26.9    |
| <b>Street Side</b> | Lumens    | 27666.0  | 0.0    | 27666.0 |
|                    | % Fixture | 73.1     | 0.0    | 73.1    |
| <b>Total</b>       | Lumens    | 37840.0  | 0.0    | 37840.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 718.0   | 1.9       |
| 10°-20°   | 2255.5  | 6.0       |
| 20°-30°   | 3944.6  | 10.4      |
| 30°-40°   | 6176.0  | 16.3      |
| 40°-50°   | 8984.4  | 23.7      |
| 50°-60°   | 9874.4  | 26.1      |
| 60°-70°   | 4407.5  | 11.6      |
| 70°-80°   | 1273.1  | 3.4       |
| 80°-90°   | 206.5   | 0.5       |
| 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°    | 37840.0 | 100.0     |
| 0°-180°   | 37840.0 | 100.0     |

**Coefficient of Utilization**



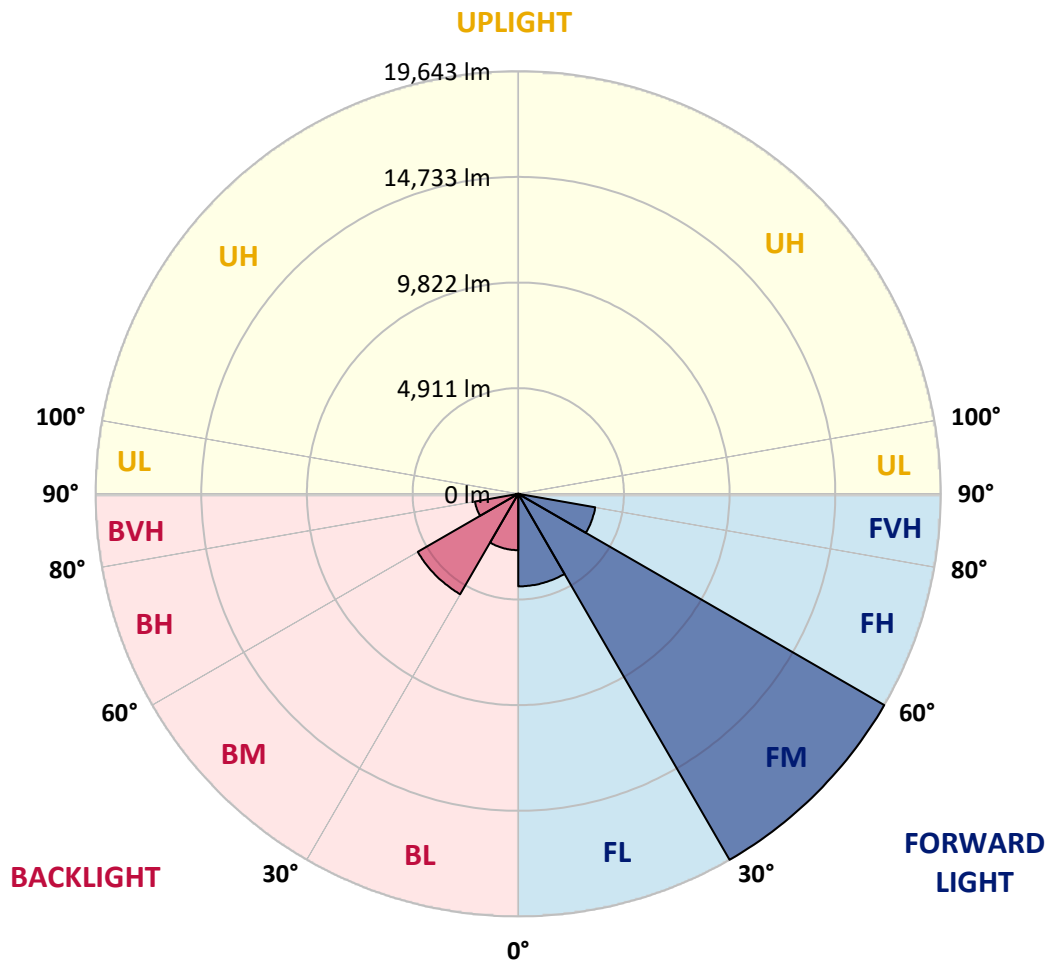
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4300.1  | 11.4      |                         |      |         |
| FM (30°-60°)   | 19643.4 | 51.9      |                         |      |         |
| FH (60°-80°)   | 3633.5  | 9.6       |                         |      | G2/5000 |
| FVH (80°-90°)  | 88.9    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 2618.0  | 6.9       | B4/5000                 |      |         |
| BM (30°-60°)   | 5391.4  | 14.2      | B4/8500                 |      |         |
| BH (60°-80°)   | 2047.0  | 5.4       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 117.6   | 0.3       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7240.2  | 7240.2  | 7240.2  | 7240.2  | 7240.2  | 7240.2  | 7240.2  | 7240.2  | 7240.2  | 7240.2  | 7240.2  |
| 2.5°  | 7976.0  | 7848.5  | 7838.6  | 7804.3  | 7823.9  | 7735.6  | 7642.4  | 7519.8  | 7392.3  | 7470.7  | 7284.3  |
| 5°    | 8535.2  | 8363.5  | 8432.2  | 8314.5  | 8329.2  | 8211.4  | 8020.1  | 7877.9  | 7720.9  | 7627.7  | 7495.3  |
| 7.5°  | 8731.4  | 8746.1  | 8795.2  | 8775.6  | 8677.4  | 8677.4  | 8549.9  | 8299.7  | 8025.0  | 7971.1  | 7750.3  |
| 10°   | 8996.3  | 9001.2  | 8947.2  | 8962.0  | 9099.3  | 9035.5  | 8922.7  | 8814.8  | 8461.6  | 8397.8  | 8005.4  |
| 12.5° | 9089.5  | 9001.2  | 9089.5  | 9168.0  | 9329.8  | 9418.1  | 9393.6  | 9315.1  | 8937.4  | 8893.3  | 8319.4  |
| 15°   | 9104.2  | 9050.2  | 9123.8  | 9300.4  | 9442.7  | 9815.5  | 10001.9 | 9947.9  | 9447.6  | 9452.5  | 8672.5  |
| 17.5° | 9035.5  | 9109.1  | 9138.5  | 9290.6  | 9619.3  | 9967.5  | 10507.1 | 10580.7 | 10168.7 | 10104.9 | 9118.9  |
| 20°   | 9128.7  | 9074.8  | 9114.0  | 9251.4  | 9687.9  | 10232.4 | 10938.8 | 11424.4 | 10845.6 | 10801.4 | 9580.0  |
| 22.5° | 9486.8  | 9413.2  | 9403.4  | 9491.7  | 9805.7  | 10369.8 | 11395.0 | 12268.1 | 11669.7 | 11694.2 | 10153.9 |
| 25°   | 9766.4  | 9805.7  | 9771.3  | 9766.4  | 9962.6  | 10575.8 | 11998.3 | 13273.7 | 12788.1 | 12645.8 | 10830.9 |
| 27.5° | 10247.1 | 10340.3 | 10271.7 | 10364.9 | 10320.7 | 10884.8 | 12430.0 | 14387.2 | 13994.8 | 13803.5 | 11444.0 |
| 30°   | 10914.3 | 10963.3 | 10899.5 | 10899.5 | 10767.1 | 11316.5 | 12822.4 | 15549.7 | 15387.9 | 15127.9 | 12165.1 |
| 32.5° | 11792.3 | 11865.9 | 11738.3 | 11664.8 | 11645.1 | 11959.1 | 13528.8 | 16697.6 | 16972.3 | 16751.5 | 13121.6 |
| 35°   | 12954.9 | 12910.7 | 12758.6 | 12690.0 | 12425.1 | 12945.0 | 14578.5 | 18017.1 | 18738.2 | 18345.8 | 14279.3 |
| 37.5° | 13980.1 | 13911.4 | 13901.6 | 13519.0 | 13582.7 | 14009.5 | 15471.3 | 19017.8 | 20450.1 | 20337.3 | 15500.7 |
| 40°   | 14936.6 | 15000.4 | 15103.4 | 14887.5 | 14789.4 | 15260.3 | 16511.2 | 19783.0 | 21779.5 | 21735.3 | 16442.5 |
| 42.5° | 15961.8 | 15902.9 | 16084.4 | 15902.9 | 15755.8 | 16422.9 | 17639.4 | 20312.8 | 22946.9 | 22583.9 | 17428.5 |
| 45°   | 17448.1 | 17261.7 | 17325.5 | 17340.2 | 17232.3 | 17477.5 | 18105.4 | 20695.4 | 23766.1 | 23726.9 | 18149.5 |
| 47.5° | 18689.1 | 18694.0 | 18586.1 | 18502.7 | 18174.1 | 18419.3 | 18625.4 | 20935.7 | 24707.9 | 24644.1 | 18429.1 |
| 50°   | 19150.2 | 19086.5 | 19400.4 | 19581.9 | 19601.5 | 19101.2 | 19032.5 | 21068.2 | 25203.3 | 24923.7 | 18708.8 |
| 52.5° | 17492.2 | 17551.1 | 18046.5 | 19125.7 | 19748.7 | 19802.6 | 19508.3 | 21342.9 | 25404.5 | 25345.6 | 18934.4 |
| 55°   | 14078.2 | 14362.7 | 15176.9 | 16422.9 | 17899.4 | 19523.0 | 20023.4 | 21627.4 | 25512.4 | 25463.3 | 19935.1 |
| 56°   | 12376.0 | 12596.8 | 13656.3 | 14632.5 | 16486.7 | 18507.6 | 19699.6 | 21931.5 | 25595.8 | 25826.3 | 20170.5 |
| 57.5° | 9962.6  | 10217.7 | 10978.0 | 12086.6 | 14274.4 | 16575.0 | 18806.9 | 21558.7 | 25272.0 | 25360.3 | 20342.2 |
| 60°   | 6229.7  | 6254.2  | 7166.6  | 7897.5  | 9437.8  | 11684.4 | 14352.9 | 18757.8 | 23388.4 | 23260.9 | 18272.2 |
| 62.5° | 4086.1  | 4091.0  | 4920.0  | 5518.4  | 6219.9  | 6735.0  | 8446.9  | 12439.8 | 17256.8 | 17031.1 | 13008.8 |
| 65°   | 2869.6  | 2933.4  | 3576.0  | 4375.5  | 4660.0  | 4390.2  | 4336.3  | 6558.4  | 9638.9  | 9315.1  | 6990.0  |
| 67.5° | 2099.5  | 2104.4  | 2673.4  | 3531.8  | 3943.8  | 3340.5  | 2712.6  | 3203.1  | 3816.3  | 3806.5  | 3237.5  |
| 70°   | 1388.2  | 1447.1  | 1883.6  | 2639.0  | 3109.9  | 2683.2  | 2217.2  | 2290.8  | 2428.1  | 2428.1  | 2408.5  |
| 72.5° | 809.4   | 863.3   | 1152.7  | 1672.7  | 1746.3  | 1677.6  | 1756.1  | 1962.1  | 2050.4  | 2045.5  | 2021.0  |
| 75°   | 461.1   | 485.6   | 549.4   | 696.6   | 868.2   | 1025.2  | 1290.1  | 1486.3  | 1574.6  | 1628.6  | 1564.8  |
| 77.5° | 269.8   | 284.5   | 323.7   | 397.3   | 451.3   | 554.3   | 701.5   | 838.8   | 956.5   | 941.8   | 951.6   |
| 80°   | 142.3   | 142.3   | 181.5   | 235.5   | 313.9   | 392.4   | 466.0   | 544.5   | 608.3   | 623.0   | 637.7   |
| 82.5° | 83.4    | 88.3    | 117.7   | 171.7   | 225.6   | 279.6   | 358.1   | 412.0   | 470.9   | 475.8   | 485.6   |
| 85°   | 44.1    | 49.1    | 73.6    | 112.8   | 152.1   | 171.7   | 176.6   | 166.8   | 181.5   | 171.7   | 196.2   |
| 87.5° | 14.7    | 14.7    | 24.5    | 19.6    | 19.6    | 24.5    | 29.4    | 29.4    | 39.2    | 39.2    | 39.2    |
| 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):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7240.2  | 7240.2 | 7240.2 | 7240.2 | 7240.2 | 7240.2 | 7240.2 | 7240.2 | 7240.2 | 7240.2 | 7240.2 |
| 2.5°  | 7279.4  | 7279.4 | 7196.1 | 7039.1 | 7014.6 | 6950.8 | 6891.9 | 6887.0 | 6842.9 | 6803.6 | 6784.0 |
| 5°    | 7416.8  | 7264.7 | 7142.1 | 6999.8 | 6833.1 | 6754.6 | 6666.3 | 6568.2 | 6528.9 | 6568.2 | 6563.3 |
| 7.5°  | 7573.8  | 7446.2 | 7078.3 | 6813.4 | 6622.1 | 6543.6 | 6445.5 | 6342.5 | 6352.3 | 6352.3 | 6283.7 |
| 10°   | 7725.8  | 7554.1 | 6965.5 | 6627.0 | 6347.4 | 6288.6 | 6234.6 | 6273.9 | 6322.9 | 6332.7 | 6288.6 |
| 12.5° | 7980.9  | 7593.4 | 6911.5 | 6440.6 | 6264.0 | 6136.5 | 6170.8 | 6278.8 | 6381.8 | 6352.3 | 6386.7 |
| 15°   | 8172.2  | 7627.7 | 6666.3 | 6249.3 | 6028.6 | 6087.5 | 6210.1 | 6283.7 | 6455.4 | 6435.7 | 6470.1 |
| 17.5° | 8358.6  | 7647.3 | 6425.9 | 5994.3 | 5901.1 | 6062.9 | 6156.1 | 6367.1 | 6421.0 | 6538.7 | 6582.9 |
| 20°   | 8741.2  | 7686.6 | 6180.7 | 5837.3 | 5807.9 | 5994.3 | 6156.1 | 6254.2 | 6372.0 | 6475.0 | 6475.0 |
| 22.5° | 8937.4  | 7667.0 | 6018.8 | 5631.3 | 5724.5 | 5842.2 | 5989.4 | 6156.1 | 6156.1 | 6254.2 | 6259.1 |
| 25°   | 9182.7  | 7588.5 | 5763.7 | 5533.2 | 5601.8 | 5714.7 | 5881.4 | 5822.6 | 5886.3 | 5886.3 | 5964.8 |
| 27.5° | 9462.3  | 7421.7 | 5543.0 | 5356.6 | 5493.9 | 5616.5 | 5641.1 | 5601.8 | 5528.3 | 5518.4 | 5489.0 |
| 30°   | 9687.9  | 7215.7 | 5381.1 | 5297.7 | 5410.5 | 5479.2 | 5400.7 | 5317.3 | 5189.8 | 5180.0 | 5111.3 |
| 32.5° | 9997.0  | 6960.6 | 5180.0 | 5150.5 | 5278.1 | 5283.0 | 5258.5 | 5130.9 | 4944.5 | 4866.0 | 4787.6 |
| 35°   | 10516.9 | 6813.4 | 5027.9 | 5072.1 | 5111.3 | 5096.6 | 5052.4 | 4915.1 | 4728.7 | 4694.4 | 4664.9 |
| 37.5° | 10899.5 | 6705.5 | 4870.9 | 4924.9 | 4959.2 | 4978.9 | 4846.4 | 4694.4 | 4699.3 | 4630.6 | 4611.0 |
| 40°   | 11331.2 | 6636.8 | 4743.4 | 4767.9 | 4772.8 | 4836.6 | 4674.7 | 4601.2 | 4635.5 | 4591.3 | 4620.8 |
| 42.5° | 11885.5 | 6656.5 | 4611.0 | 4591.3 | 4684.5 | 4660.0 | 4581.5 | 4483.4 | 4503.1 | 4370.6 | 4390.2 |
| 45°   | 12179.8 | 6788.9 | 4532.5 | 4444.2 | 4547.2 | 4542.3 | 4439.3 | 4346.1 | 4228.4 | 3973.3 | 3983.1 |
| 47.5° | 12376.0 | 6823.2 | 4346.1 | 4287.2 | 4395.1 | 4458.9 | 4341.2 | 4125.3 | 3958.6 | 3777.1 | 3732.9 |
| 50°   | 12577.1 | 6887.0 | 4257.8 | 4135.2 | 4179.3 | 4331.4 | 4184.2 | 3978.2 | 3816.3 | 3654.4 | 3679.0 |
| 52.5° | 12753.7 | 7009.6 | 4086.1 | 3904.6 | 3983.1 | 4149.9 | 4071.4 | 3821.2 | 3644.6 | 3512.2 | 3472.9 |
| 55°   | 13538.6 | 7284.3 | 3796.7 | 3561.2 | 3747.6 | 3958.6 | 3914.4 | 3610.3 | 3419.0 | 3350.3 | 3340.5 |
| 56°   | 13661.2 | 7294.2 | 3644.6 | 3443.5 | 3615.2 | 3894.8 | 3840.8 | 3517.1 | 3345.4 | 3237.5 | 3242.4 |
| 57.5° | 13680.8 | 7176.4 | 3428.8 | 3335.6 | 3482.8 | 3801.6 | 3732.9 | 3443.5 | 3208.1 | 3109.9 | 3080.5 |
| 60°   | 12037.6 | 5601.8 | 3159.0 | 3100.1 | 3271.8 | 3517.1 | 3492.6 | 3242.4 | 2977.5 | 2864.7 | 2918.6 |
| 62.5° | 8206.5  | 4105.7 | 2948.1 | 2938.3 | 3026.6 | 3266.9 | 3203.1 | 2977.5 | 2756.8 | 2683.2 | 2648.9 |
| 65°   | 4777.7  | 3114.9 | 2742.1 | 2702.8 | 2776.4 | 2903.9 | 2948.1 | 2712.6 | 2482.1 | 2433.0 | 2418.3 |
| 67.5° | 2820.5  | 2575.3 | 2477.2 | 2413.4 | 2388.9 | 2467.4 | 2501.7 | 2364.3 | 2133.8 | 2065.1 | 2124.0 |
| 70°   | 2359.4  | 2290.8 | 2295.7 | 2187.8 | 2128.9 | 2074.9 | 2045.5 | 1922.9 | 1731.6 | 1643.3 | 1618.7 |
| 72.5° | 2035.7  | 2006.3 | 1986.6 | 1888.5 | 1834.6 | 1711.9 | 1584.4 | 1461.8 | 1319.5 | 1245.9 | 1250.8 |
| 75°   | 1555.0  | 1545.2 | 1555.0 | 1505.9 | 1412.7 | 1314.6 | 1196.9 | 1039.9 | 932.0  | 838.8  | 858.4  |
| 77.5° | 927.1   | 956.5  | 971.2  | 951.6  | 912.4  | 824.1  | 750.5  | 647.5  | 544.5  | 470.9  | 461.1  |
| 80°   | 637.7   | 662.2  | 686.7  | 662.2  | 623.0  | 559.2  | 480.7  | 402.2  | 328.7  | 289.4  | 279.6  |
| 82.5° | 485.6   | 510.1  | 524.9  | 500.3  | 451.3  | 382.6  | 328.7  | 274.7  | 215.8  | 176.6  | 166.8  |
| 85°   | 176.6   | 201.1  | 196.2  | 235.5  | 255.1  | 245.3  | 210.9  | 161.9  | 122.6  | 88.3   | 83.4   |
| 87.5° | 49.1    | 44.1   | 49.1   | 49.1   | 49.1   | 44.1   | 39.2   | 39.2   | 39.2   | 24.5   | 19.6   |
| 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)