

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: P649167

Luminaire Tested: **GLAN-SA9C-835-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P649167  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9C-835-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42547.5 lumens  
Efficiency: N/A  
Efficacy: 88.5 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

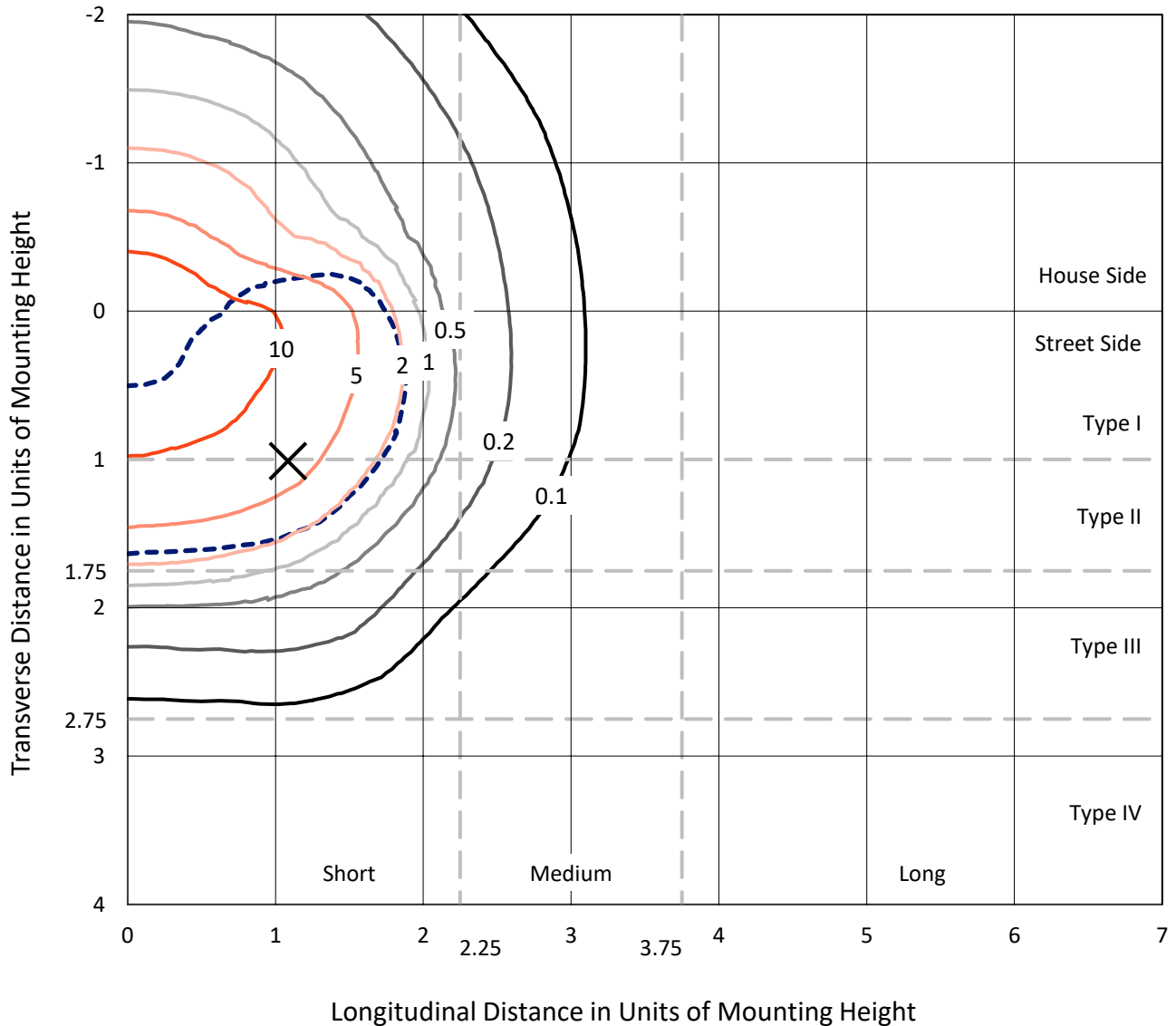
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

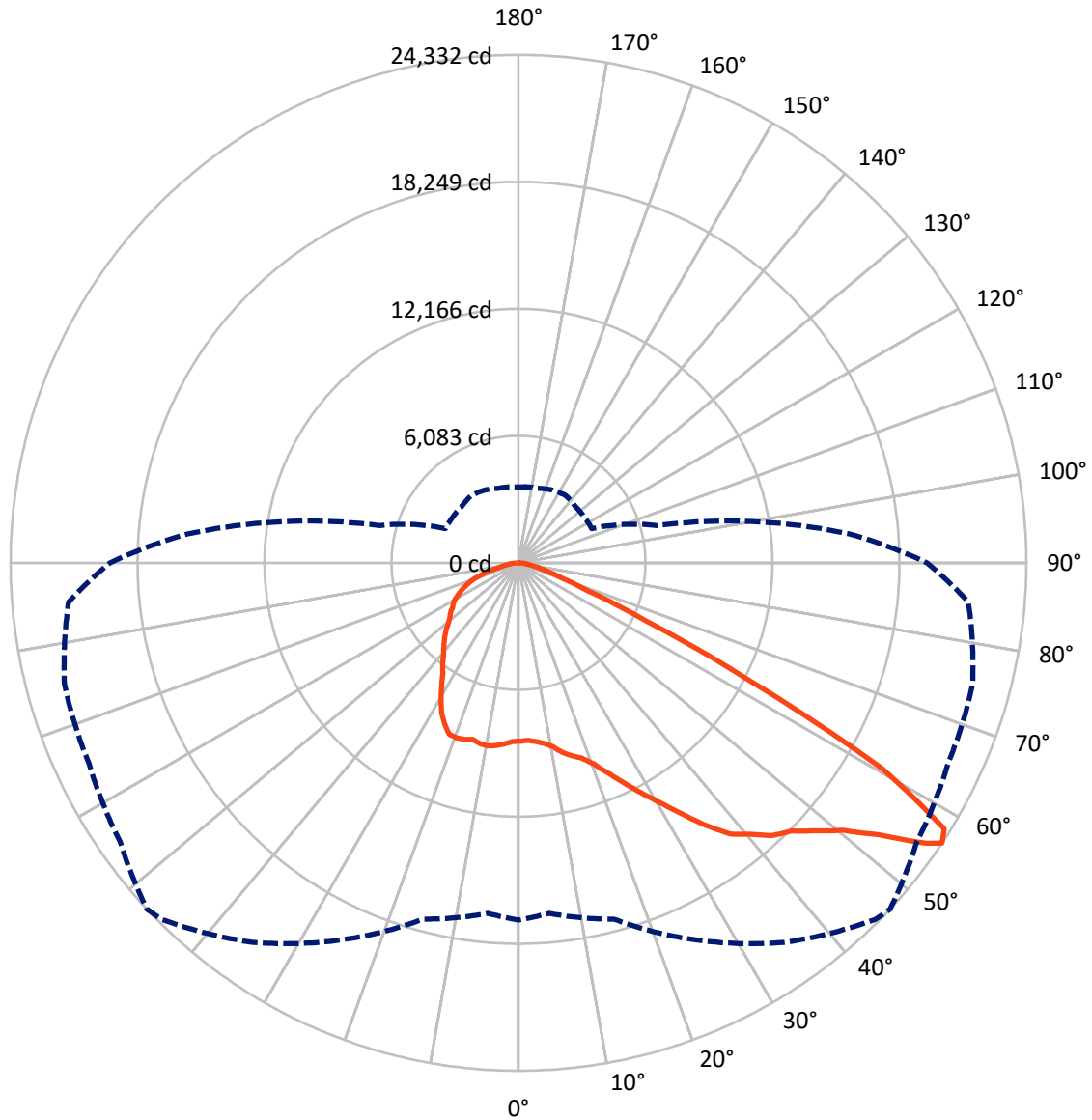
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical



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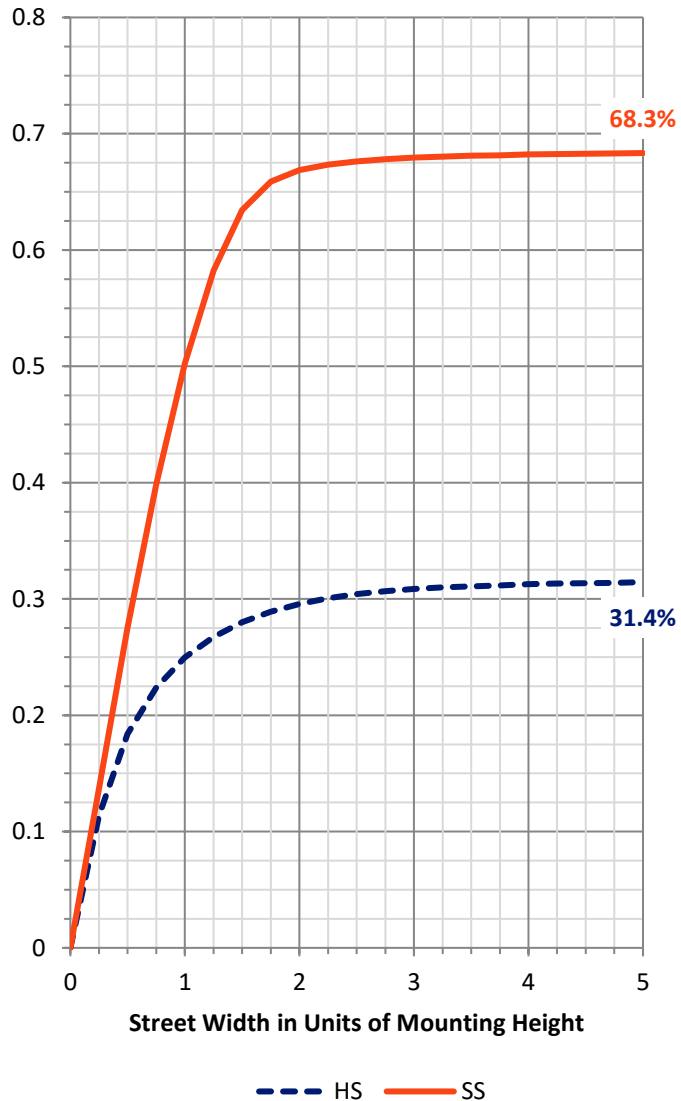
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13482.8  | 0.0    | 13482.8 |
|                    | % Fixture | 31.7     | 0.0    | 31.7    |
| <b>Street Side</b> | Lumens    | 29064.7  | 0.0    | 29064.7 |
|                    | % Fixture | 68.3     | 0.0    | 68.3    |
| <b>Total</b>       | Lumens    | 42547.5  | 0.0    | 42547.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 832.8   | 2.0       |
| 10°-20°   | 2626.9  | 6.2       |
| 20°-30°   | 4643.7  | 10.9      |
| 30°-40°   | 6974.7  | 16.4      |
| 40°-50°   | 9572.0  | 22.5      |
| 50°-60°   | 11403.8 | 26.8      |
| 60°-70°   | 4880.2  | 11.5      |
| 70°-80°   | 1381.1  | 3.2       |
| 80°-90°   | 232.4   | 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°    | 42547.5 | 100.0     |
| 0°-180°   | 42547.5 | 100.0     |

**Coefficient of Utilization**



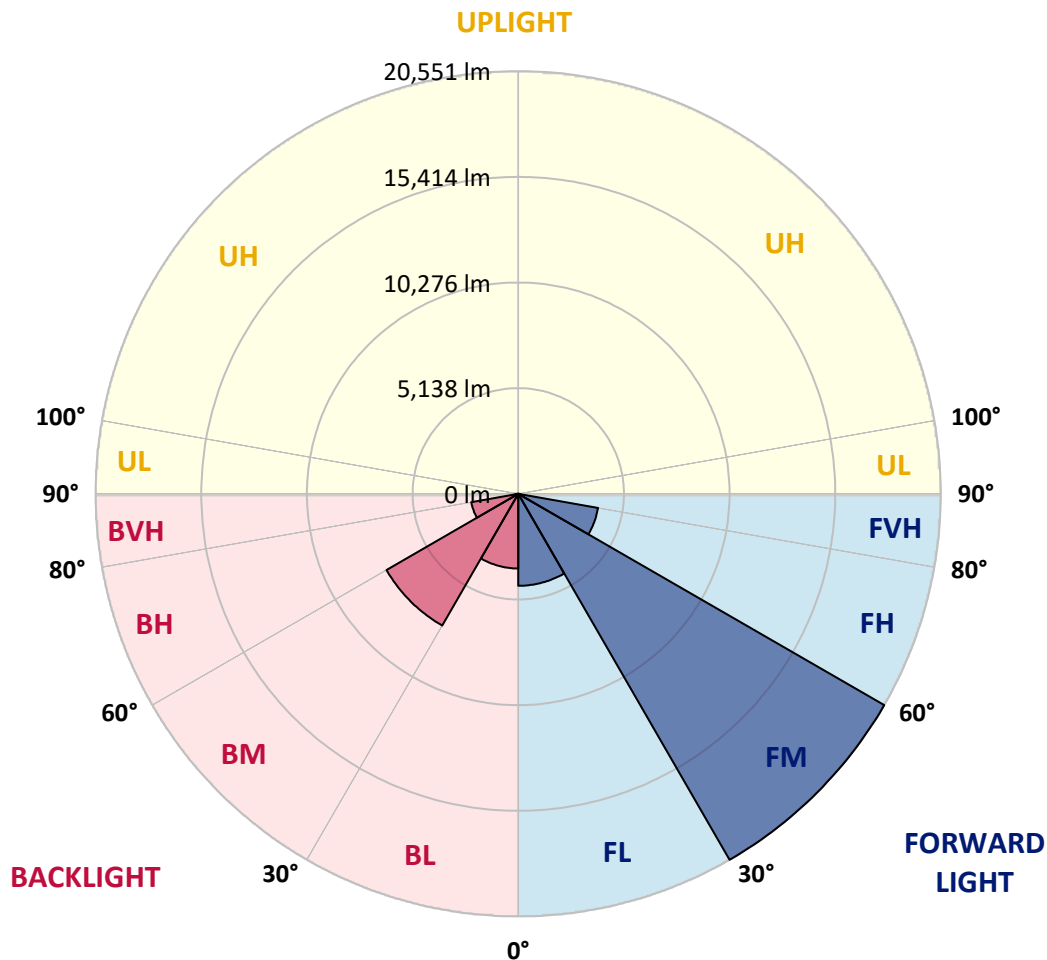
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4473.2  | 10.5      |                         |      |         |
| FM (30°-60°)   | 20551.4 | 48.3      |                         |      |         |
| FH (60°-80°)   | 3941.5  | 9.3       |                         |      | G2/5000 |
| FVH (80°-90°)  | 98.6    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 3630.1  | 8.5       | B4/5000                 |      |         |
| BM (30°-60°)   | 7399.1  | 17.4      | B4/8500                 |      |         |
| BH (60°-80°)   | 2319.8  | 5.5       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 133.8   | 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°     | 47°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8546.5  | 8546.5  | 8546.5  | 8546.5  | 8546.5  | 8546.5  | 8546.5  | 8546.5  | 8546.5  | 8546.5  | 8546.5  |
| 2.5°  | 8514.0  | 8497.7  | 8486.8  | 8573.6  | 8541.0  | 8546.5  | 8514.0  | 8546.5  | 8568.2  | 8519.4  | 8589.9  |
| 5°    | 8497.7  | 8546.5  | 8503.1  | 8530.2  | 8600.8  | 8579.0  | 8600.8  | 8665.9  | 8649.6  | 8633.3  | 8611.6  |
| 7.5°  | 8649.6  | 8655.0  | 8687.5  | 8698.4  | 8720.1  | 8698.4  | 8731.0  | 8790.7  | 8774.4  | 8682.1  | 8693.0  |
| 10°   | 8866.6  | 8877.5  | 8882.9  | 8942.6  | 8980.6  | 8986.0  | 8948.0  | 8893.8  | 8888.4  | 9013.2  | 8926.4  |
| 12.5° | 9116.2  | 9089.1  | 9154.2  | 9176.0  | 9219.4  | 9268.2  | 9317.0  | 9203.1  | 9273.6  | 9279.0  | 9176.0  |
| 15°   | 9479.8  | 9507.0  | 9431.0  | 9431.0  | 9447.3  | 9452.7  | 9588.4  | 9534.0  | 9523.2  | 9463.6  | 9507.0  |
| 17.5° | 10022.5 | 9837.9  | 9832.5  | 9756.6  | 9745.7  | 9789.1  | 9837.9  | 9881.4  | 10027.9 | 9908.5  | 9675.1  |
| 20°   | 10418.6 | 10462.0 | 10304.6 | 10212.4 | 10228.6 | 10326.4 | 10277.5 | 10472.9 | 10575.9 | 10380.6 | 10152.7 |
| 22.5° | 11118.6 | 10972.1 | 11010.1 | 10803.8 | 10820.1 | 10923.2 | 10917.8 | 11118.6 | 11178.3 | 10869.0 | 10537.9 |
| 25°   | 11590.7 | 11552.7 | 11585.3 | 11422.5 | 11444.2 | 11525.5 | 11655.8 | 11986.8 | 11889.2 | 11547.3 | 10782.1 |
| 27.5° | 12279.8 | 12203.8 | 12176.7 | 12117.0 | 12095.3 | 12312.4 | 12464.3 | 12817.0 | 12746.5 | 12247.2 | 11216.2 |
| 30°   | 12985.3 | 12936.4 | 12963.5 | 12719.4 | 12806.2 | 13267.4 | 13310.8 | 13793.8 | 13761.2 | 12882.2 | 11699.2 |
| 32.5° | 13473.6 | 13500.7 | 13549.6 | 13413.9 | 13799.2 | 14168.2 | 14314.6 | 14862.7 | 14889.8 | 13972.8 | 12632.5 |
| 35°   | 14260.4 | 14168.2 | 14195.3 | 14352.7 | 14531.8 | 15204.6 | 15443.3 | 15807.0 | 16034.8 | 15117.8 | 13527.9 |
| 37.5° | 14754.2 | 14851.9 | 14737.9 | 14987.6 | 15454.2 | 16262.8 | 16479.8 | 16854.2 | 17093.0 | 16246.5 | 14748.8 |
| 40°   | 15524.8 | 15367.4 | 15448.8 | 15627.9 | 16105.4 | 17158.1 | 17098.4 | 17483.7 | 17559.6 | 17206.9 | 15888.3 |
| 42.5° | 16355.0 | 16279.0 | 16165.0 | 16572.0 | 16973.6 | 17738.7 | 17858.1 | 17679.0 | 18064.3 | 18145.7 | 17516.3 |
| 45°   | 17348.0 | 17440.2 | 17456.5 | 17467.4 | 17820.1 | 18487.6 | 18324.8 | 18167.4 | 18612.4 | 19203.9 | 18525.5 |
| 47.5° | 18270.5 | 17977.4 | 18189.1 | 18482.1 | 18981.3 | 18986.7 | 19176.7 | 18802.3 | 19274.3 | 19800.7 | 19437.2 |
| 50°   | 18579.8 | 18438.7 | 18720.9 | 19274.3 | 20044.9 | 20126.3 | 20148.0 | 19616.2 | 19860.4 | 20278.2 | 19751.9 |
| 52.5° | 18460.4 | 18411.5 | 19133.3 | 19990.6 | 21119.3 | 21531.7 | 21640.2 | 20983.7 | 21119.3 | 20929.4 | 20446.5 |
| 55°   | 17890.6 | 18037.2 | 18764.3 | 20511.5 | 22242.6 | 23517.8 | 23724.0 | 22893.7 | 22031.0 | 22177.5 | 21645.6 |
| 56°   | 17109.3 | 16854.2 | 17668.2 | 19920.1 | 22193.7 | 24163.5 | 24331.7 | 23295.3 | 22709.3 | 22519.3 | 21634.8 |
| 57.5° | 14515.5 | 14184.4 | 15253.5 | 17923.2 | 20961.9 | 23919.3 | 24044.1 | 23463.5 | 22595.3 | 22210.0 | 20055.8 |
| 60°   | 8497.7  | 8660.4  | 10017.0 | 12361.2 | 16170.5 | 19610.8 | 20028.6 | 20451.9 | 19871.3 | 18145.7 | 14927.9 |
| 62.5° | 4102.3  | 3999.3  | 4970.6  | 7086.8  | 9854.2  | 12518.6 | 12393.8 | 13582.2 | 14233.3 | 12893.0 | 9425.5  |
| 65°   | 2148.9  | 2138.0  | 2713.2  | 3869.0  | 5415.5  | 6576.7  | 6690.7  | 7331.0  | 8226.4  | 6641.9  | 4786.0  |
| 67.5° | 1579.1  | 1622.5  | 1910.1  | 2718.6  | 3483.7  | 3554.3  | 3538.0  | 3858.2  | 3945.0  | 3337.2  | 2941.1  |
| 70°   | 1237.2  | 1258.9  | 1470.6  | 2067.4  | 2593.8  | 2322.5  | 2273.7  | 2311.7  | 2566.7  | 2675.2  | 2545.0  |
| 72.5° | 895.4   | 917.0   | 1096.1  | 1394.6  | 1622.5  | 1584.5  | 1617.1  | 1828.7  | 2143.4  | 2257.4  | 2121.7  |
| 75°   | 596.9   | 613.2   | 710.9   | 851.9   | 960.4   | 1036.5  | 1096.1  | 1340.3  | 1633.3  | 1698.5  | 1633.3  |
| 77.5° | 412.4   | 428.7   | 493.8   | 602.4   | 613.2   | 662.0   | 683.7   | 797.6   | 976.7   | 1058.1  | 1014.7  |
| 80°   | 233.3   | 233.3   | 265.9   | 309.3   | 379.8   | 445.0   | 455.8   | 548.0   | 629.5   | 683.7   | 694.6   |
| 82.5° | 108.5   | 113.9   | 141.1   | 190.0   | 249.6   | 309.3   | 320.2   | 379.8   | 439.5   | 493.8   | 510.0   |
| 85°   | 54.3    | 59.7    | 81.4    | 113.9   | 151.9   | 184.5   | 179.1   | 184.5   | 195.4   | 184.5   | 190.0   |
| 87.5° | 16.3    | 16.3    | 21.7    | 27.2    | 21.7    | 27.2    | 27.2    | 32.6    | 38.0    | 43.4    | 48.9    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8546.5  | 8546.5  | 8546.5  | 8546.5 | 8546.5 | 8546.5 | 8546.5 | 8546.5 | 8546.5 | 8546.5 | 8546.5 |
| 2.5°  | 8595.3  | 8611.6  | 8503.1  | 8606.2 | 8568.2 | 8562.7 | 8638.8 | 8627.9 | 8655.0 | 8644.2 | 8579.0 |
| 5°    | 8600.8  | 8562.7  | 8676.7  | 8573.6 | 8622.5 | 8725.6 | 8655.0 | 8817.8 | 8736.4 | 8790.7 | 8671.3 |
| 7.5°  | 8769.0  | 8779.9  | 8758.1  | 8801.5 | 8779.9 | 8828.6 | 8790.7 | 8828.6 | 8763.6 | 8769.0 | 8877.5 |
| 10°   | 8915.5  | 8882.9  | 8920.9  | 8866.6 | 8904.6 | 8888.4 | 8801.5 | 8774.4 | 8796.1 | 8769.0 | 8839.5 |
| 12.5° | 9186.8  | 9127.1  | 9099.9  | 9034.9 | 8991.4 | 8828.6 | 8693.0 | 8617.0 | 8720.1 | 8736.4 | 8703.8 |
| 15°   | 9463.6  | 9469.0  | 9344.2  | 9197.7 | 8926.4 | 8682.1 | 8714.7 | 8741.8 | 8741.8 | 8785.3 | 8703.8 |
| 17.5° | 9637.2  | 9637.2  | 9523.2  | 9230.2 | 8953.4 | 8812.4 | 8779.9 | 8693.0 | 8617.0 | 8606.2 | 8600.8 |
| 20°   | 9941.0  | 9848.8  | 9588.4  | 9224.8 | 8942.6 | 8877.5 | 8633.3 | 8427.1 | 8269.7 | 8215.5 | 8210.1 |
| 22.5° | 10288.3 | 10055.0 | 9691.4  | 9235.6 | 8926.4 | 8834.1 | 8378.3 | 8069.0 | 7786.8 | 7667.4 | 7683.7 |
| 25°   | 10608.5 | 10234.0 | 9751.2  | 9186.8 | 8866.6 | 8421.7 | 7911.6 | 7482.9 | 7189.9 | 7092.3 | 7043.4 |
| 27.5° | 10831.0 | 10424.0 | 9751.2  | 9230.2 | 8644.2 | 7960.4 | 7439.5 | 6891.4 | 6636.4 | 6571.3 | 6582.1 |
| 30°   | 11129.4 | 10662.7 | 9919.4  | 9137.9 | 8199.2 | 7363.6 | 6739.5 | 6381.4 | 6229.5 | 6175.2 | 6213.2 |
| 32.5° | 11829.4 | 11286.8 | 10152.7 | 8915.5 | 7672.9 | 6766.7 | 6262.0 | 6061.2 | 5838.8 | 5730.2 | 5692.3 |
| 35°   | 12589.1 | 11878.3 | 10380.6 | 8541.0 | 7081.4 | 6224.0 | 5909.3 | 5724.8 | 5458.9 | 5339.5 | 5361.2 |
| 37.5° | 13663.5 | 12637.9 | 10396.9 | 7922.5 | 6441.0 | 5920.1 | 5632.5 | 5344.9 | 5127.9 | 4943.4 | 4889.1 |
| 40°   | 15112.4 | 13674.4 | 10358.9 | 7271.3 | 5925.6 | 5562.0 | 5350.4 | 4992.3 | 4748.0 | 4617.8 | 4644.9 |
| 42.5° | 16387.6 | 14889.8 | 10201.6 | 6533.4 | 5458.9 | 5317.8 | 5079.1 | 4726.3 | 4487.6 | 4351.9 | 4341.1 |
| 45°   | 17462.0 | 15785.2 | 9903.1  | 5903.9 | 5068.2 | 5046.5 | 4769.7 | 4498.4 | 4308.5 | 4183.7 | 4238.0 |
| 47.5° | 18455.0 | 16506.9 | 9452.7  | 5274.4 | 4710.1 | 4753.4 | 4487.6 | 4319.3 | 4200.0 | 4086.0 | 4080.6 |
| 50°   | 18813.1 | 16496.1 | 9056.6  | 4753.4 | 4422.5 | 4400.8 | 4389.9 | 4210.8 | 4086.0 | 3988.4 | 4031.7 |
| 52.5° | 19410.0 | 16680.6 | 8627.9  | 4395.4 | 4162.0 | 4167.4 | 4205.4 | 4075.2 | 3934.1 | 3874.4 | 3928.7 |
| 55°   | 20267.4 | 16707.7 | 7683.7  | 3977.5 | 3945.0 | 3983.0 | 3983.0 | 3896.1 | 3776.7 | 3727.9 | 3700.8 |
| 56°   | 19567.4 | 15899.2 | 6891.4  | 3869.0 | 3836.4 | 3836.4 | 3939.5 | 3841.9 | 3695.4 | 3657.4 | 3624.8 |
| 57.5° | 18048.0 | 13929.4 | 5768.2  | 3738.7 | 3689.9 | 3765.9 | 3820.2 | 3717.1 | 3581.4 | 3527.1 | 3559.7 |
| 60°   | 12448.1 | 9425.5  | 4335.6  | 3456.6 | 3456.6 | 3581.4 | 3624.8 | 3472.8 | 3413.2 | 3407.8 | 3364.3 |
| 62.5° | 7265.8  | 5491.5  | 3391.5  | 3201.5 | 3212.4 | 3315.5 | 3348.0 | 3261.2 | 3185.2 | 3277.5 | 3320.9 |
| 65°   | 3852.7  | 3277.5  | 2908.5  | 2930.2 | 2935.6 | 3017.1 | 3158.2 | 3152.7 | 3147.3 | 3174.4 | 3179.8 |
| 67.5° | 2789.1  | 2724.1  | 2642.6  | 2620.9 | 2631.7 | 2691.5 | 2832.6 | 2941.1 | 2935.6 | 2870.6 | 2821.7 |
| 70°   | 2485.2  | 2393.0  | 2344.1  | 2349.6 | 2306.2 | 2376.7 | 2490.7 | 2561.3 | 2436.5 | 2360.4 | 2327.9 |
| 72.5° | 2067.4  | 2040.3  | 2007.8  | 2013.2 | 1926.3 | 1910.1 | 1779.8 | 1779.8 | 1747.3 | 1725.6 | 1763.6 |
| 75°   | 1579.1  | 1568.2  | 1584.5  | 1557.4 | 1465.1 | 1367.4 | 1291.5 | 1220.9 | 1112.4 | 1069.0 | 1047.3 |
| 77.5° | 998.5   | 1031.0  | 1069.0  | 1009.3 | 971.3  | 900.8  | 824.8  | 754.3  | 667.4  | 618.6  | 618.6  |
| 80°   | 678.3   | 705.4   | 732.6   | 721.7  | 678.3  | 613.2  | 553.5  | 477.6  | 417.8  | 379.8  | 374.4  |
| 82.5° | 515.5   | 537.2   | 575.2   | 531.8  | 488.4  | 434.1  | 385.2  | 331.0  | 276.7  | 233.3  | 233.3  |
| 85°   | 184.5   | 211.6   | 233.3   | 255.0  | 271.3  | 276.7  | 238.7  | 195.4  | 157.4  | 124.8  | 119.4  |
| 87.5° | 48.9    | 54.3    | 59.7    | 54.3   | 54.3   | 54.3   | 59.7   | 54.3   | 48.9   | 38.0   | 38.0   |
| 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)