

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: P323203

Luminaire Tested: **GAN-SA9B-740-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323203  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9B-740-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42315 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

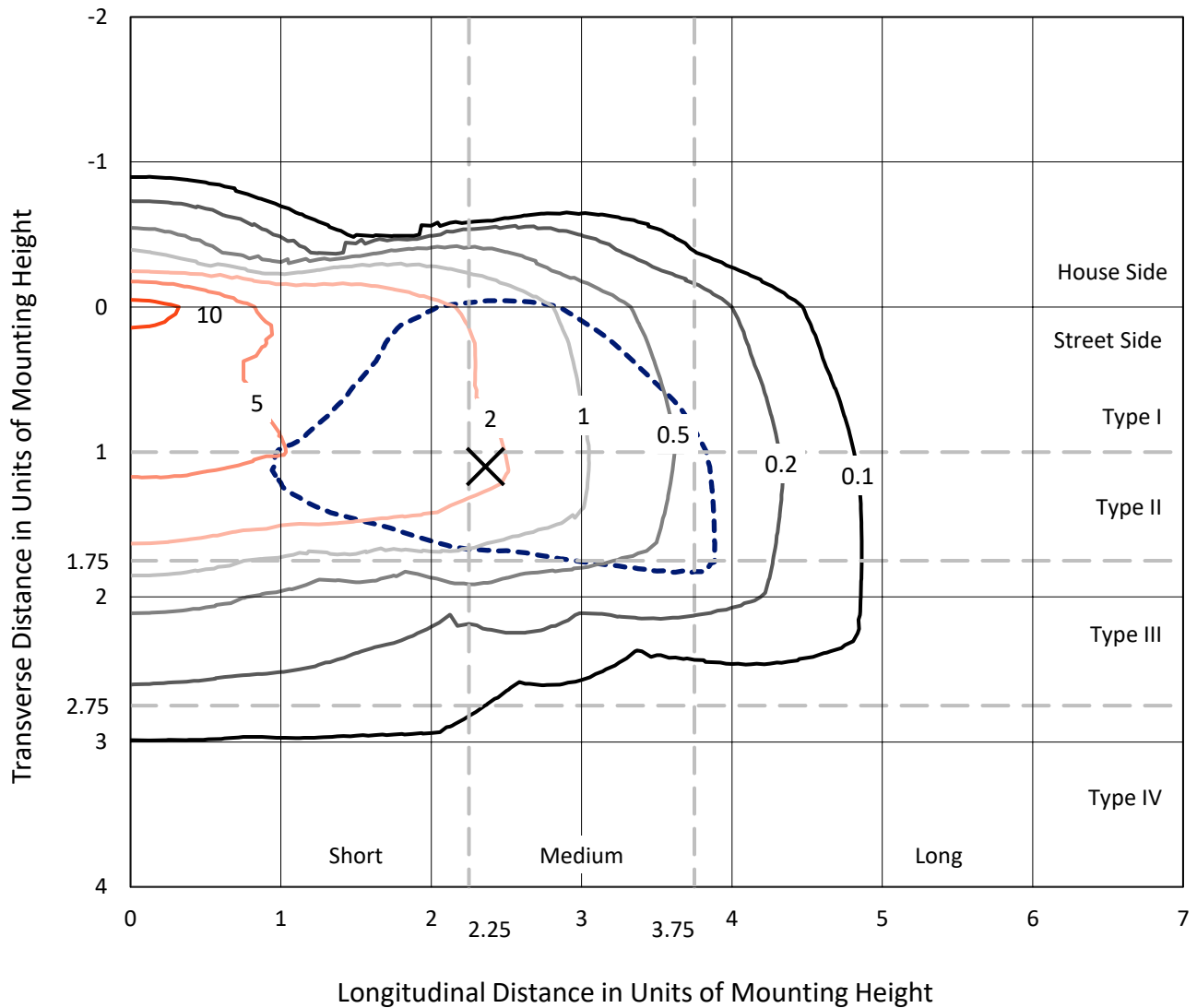
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

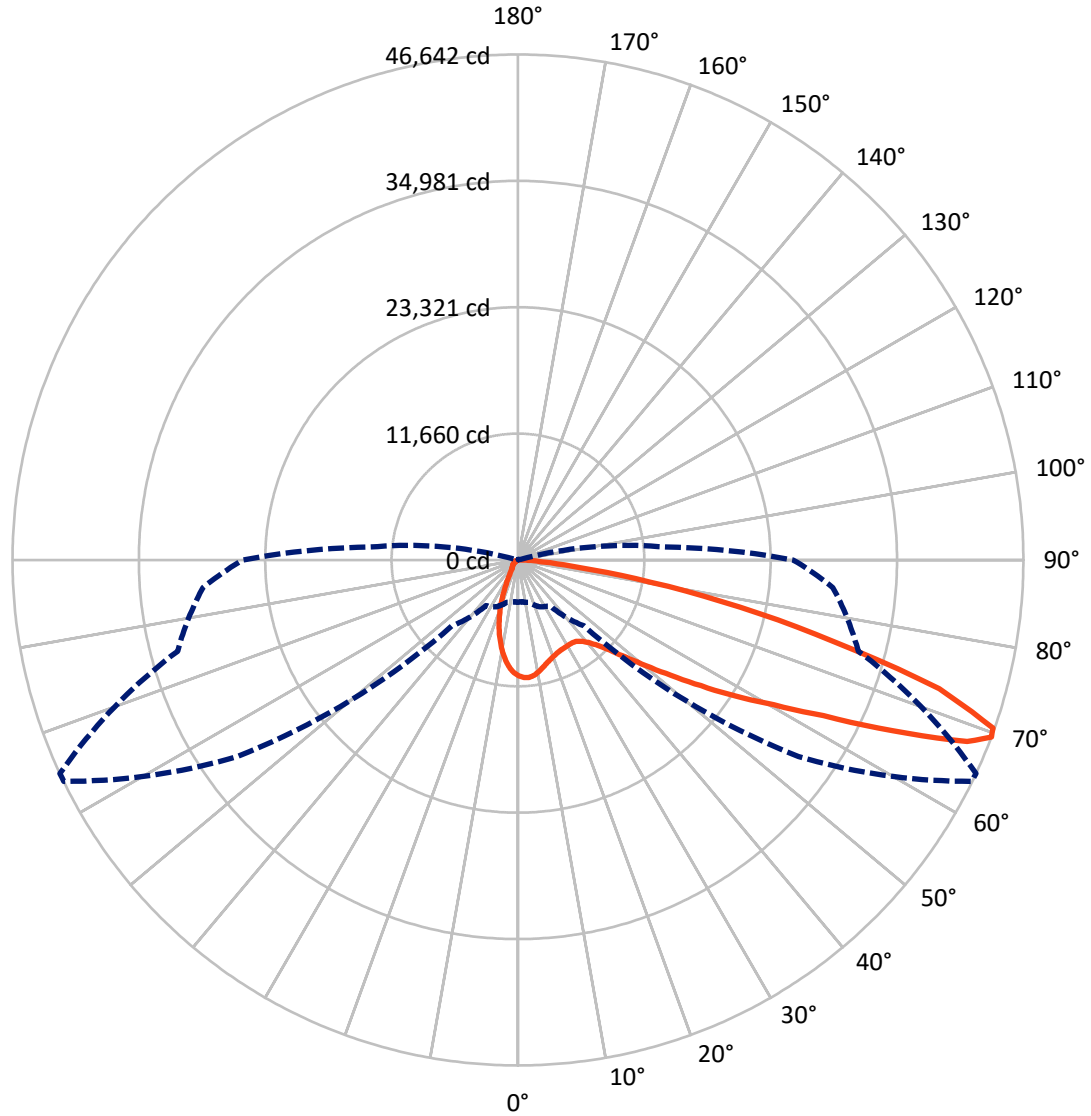
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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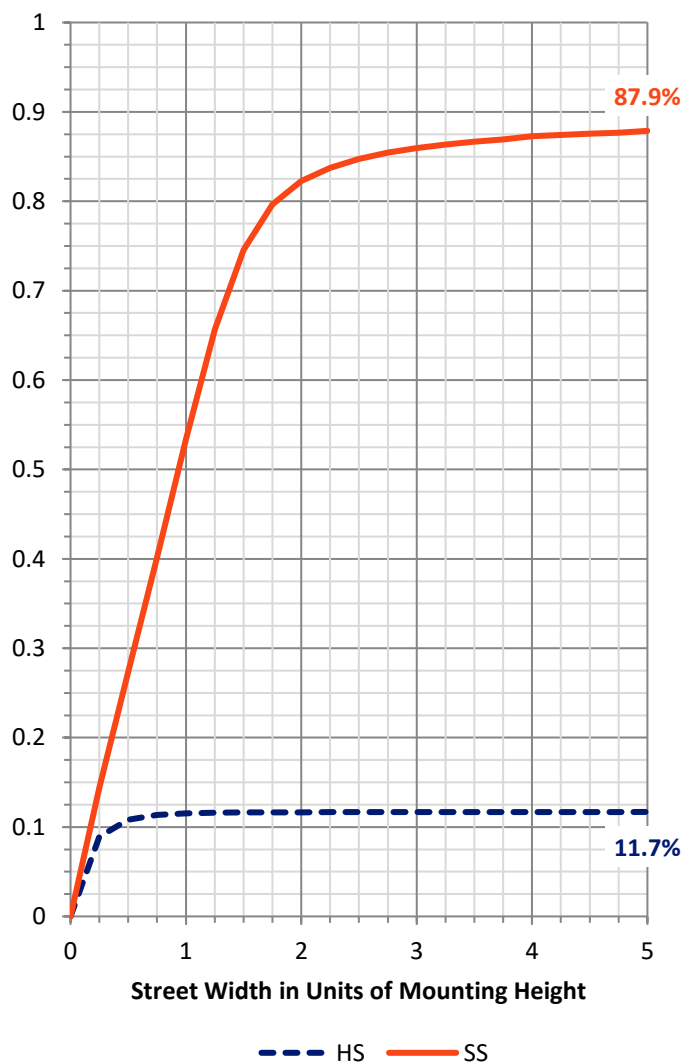
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4987.9   | 0.0    | 4987.9  |
|                    | % Fixture | 11.8     | 0.0    | 11.8    |
| <b>Street Side</b> | Lumens    | 37327.1  | 0.0    | 37327.1 |
|                    | % Fixture | 88.2     | 0.0    | 88.2    |
| <b>Total</b>       | Lumens    | 42315.0  | 0.0    | 42315.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 894.2   | 2.1       |
| 10°-20°   | 1957.4  | 4.6       |
| 20°-30°   | 2711.0  | 6.4       |
| 30°-40°   | 3780.0  | 8.9       |
| 40°-50°   | 5875.4  | 13.9      |
| 50°-60°   | 9432.3  | 22.3      |
| 60°-70°   | 10669.5 | 25.2      |
| 70°-80°   | 6266.3  | 14.8      |
| 80°-90°   | 728.9   | 1.7       |
| 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°    | 42315.0 | 100.0     |
| 0°-180°   | 42315.0 | 100.0     |

**Coefficient of Utilization**

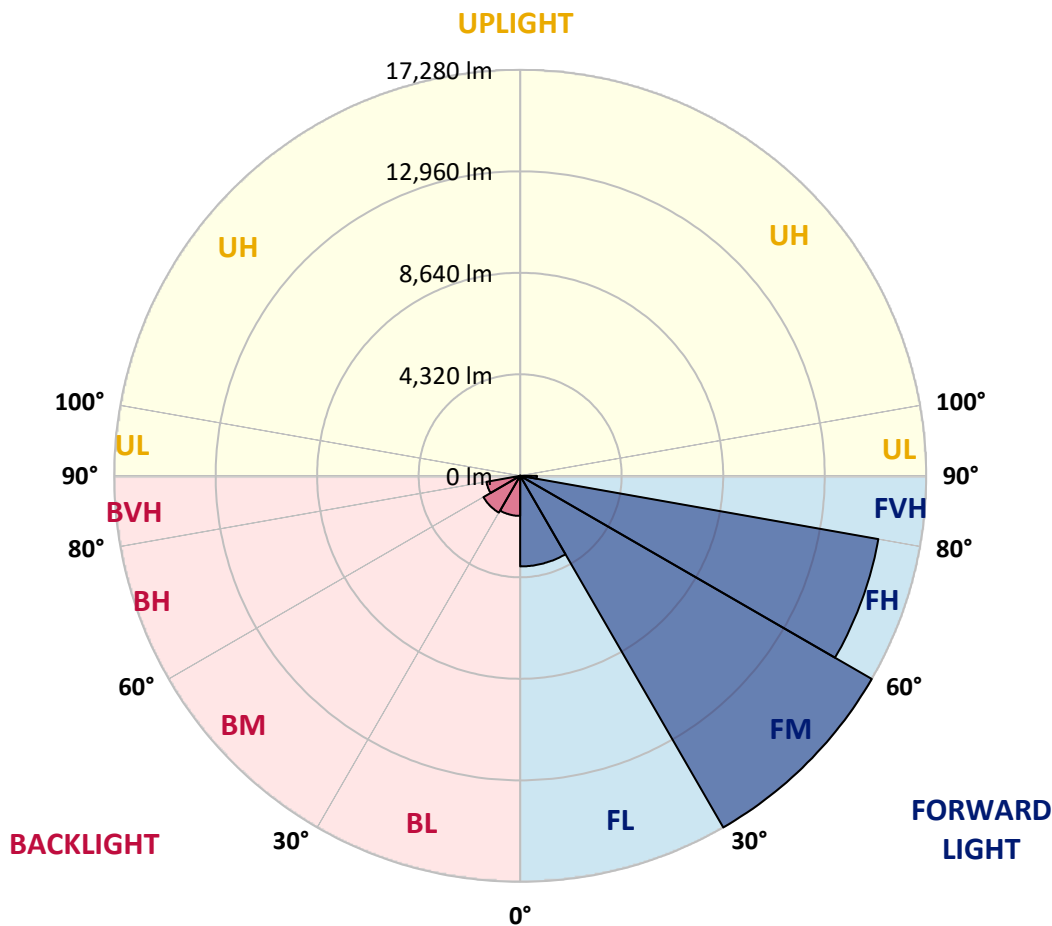


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3855.9  | 9.1       |                         |      |         |
| FM (30°-60°)   | 17280.2 | 40.8      |                         |      |         |
| FH (60°-80°)   | 15478.4 | 36.6      |                         |      | G5      |
| FVH (80°-90°)  | 712.5   | 1.7       |                         |      | G4/750  |
| BL (0°-30°)    | 1706.7  | 4.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 1807.5  | 4.3       | B2/2500                 |      |         |
| BH (60°-80°)   | 1457.4  | 3.4       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 16.4    | 0.0       |                         |      | 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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10693.1 | 10693.1 | 10693.1 | 10693.1 | 10693.1 | 10693.1 | 10693.1 | 10693.1 | 10693.1 | 10693.1 | 10693.1 |
| 2.5°  | 10788.0 | 10761.1 | 10782.6 | 10829.2 | 10852.4 | 10852.4 | 10870.3 | 10848.9 | 10856.0 | 10804.1 | 10728.9 |
| 5°    | 10112.9 | 10071.8 | 10130.8 | 10261.6 | 10422.7 | 10560.6 | 10764.7 | 10872.1 | 10882.9 | 10884.7 | 10796.9 |
| 7.5°  | 9386.0  | 9348.4  | 9436.1  | 9590.1  | 9797.8  | 10053.9 | 10410.2 | 10721.7 | 10739.6 | 10907.9 | 10843.5 |
| 10°   | 8795.1  | 8768.2  | 8870.3  | 9035.0  | 9278.6  | 9565.0  | 10001.9 | 10435.2 | 10487.2 | 10859.6 | 10836.3 |
| 12.5° | 8326.0  | 8304.5  | 8401.2  | 8591.0  | 8839.9  | 9156.8  | 9613.4  | 10116.5 | 10186.4 | 10750.4 | 10800.5 |
| 15°   | 7984.0  | 7980.4  | 8061.0  | 8243.6  | 8519.4  | 8814.8  | 9282.1  | 9821.1  | 9901.7  | 10632.2 | 10795.1 |
| 17.5° | 7804.9  | 7810.3  | 7869.4  | 8025.2  | 8261.5  | 8555.2  | 9002.8  | 9572.2  | 9659.9  | 10526.6 | 10822.0 |
| 20°   | 7787.0  | 7792.4  | 7824.6  | 7912.4  | 8104.0  | 8363.6  | 8775.4  | 9362.7  | 9454.0  | 10447.8 | 10865.0 |
| 22.5° | 7944.6  | 7941.0  | 7950.0  | 7941.0  | 8048.5  | 8245.4  | 8625.0  | 9201.6  | 9307.2  | 10395.8 | 10899.0 |
| 25°   | 8247.2  | 8241.8  | 8238.3  | 8172.0  | 8100.4  | 8206.0  | 8562.3  | 9110.2  | 9210.5  | 10358.2 | 10918.7 |
| 27.5° | 8668.0  | 8664.4  | 8659.0  | 8549.8  | 8334.9  | 8268.7  | 8569.5  | 9076.2  | 9160.4  | 10327.8 | 10915.1 |
| 30°   | 9221.3  | 9246.3  | 9239.2  | 9087.0  | 8752.1  | 8460.3  | 8644.7  | 9058.3  | 9131.7  | 10268.7 | 10877.5 |
| 32.5° | 9871.2  | 9921.4  | 9960.7  | 9797.8  | 9378.8  | 8839.9  | 8818.4  | 9078.0  | 9131.7  | 10224.0 | 10809.5 |
| 35°   | 10546.3 | 10610.7 | 10755.7 | 10698.4 | 10147.0 | 9411.1  | 9117.4  | 9196.2  | 9241.0  | 10249.0 | 10777.2 |
| 37.5° | 11210.5 | 11287.5 | 11602.7 | 11769.2 | 11153.2 | 10166.7 | 9582.9  | 9488.0  | 9511.3  | 10401.2 | 10813.0 |
| 40°   | 11982.3 | 12098.6 | 12576.7 | 12845.3 | 12354.7 | 11178.3 | 10279.5 | 9989.4  | 9998.3  | 10736.0 | 10979.6 |
| 42.5° | 12995.7 | 13115.7 | 13633.1 | 14053.9 | 13708.3 | 12456.8 | 11224.9 | 10755.7 | 10746.8 | 11362.7 | 11371.7 |
| 45°   | 14231.2 | 14356.5 | 14891.9 | 15359.2 | 15203.4 | 13971.5 | 12435.3 | 11874.8 | 11864.1 | 12351.1 | 12114.8 |
| 47.5° | 15631.4 | 15754.9 | 16233.0 | 16714.6 | 16883.0 | 15740.6 | 13976.9 | 13402.2 | 13377.1 | 13724.5 | 13262.5 |
| 50°   | 16832.8 | 16913.4 | 17353.9 | 18002.0 | 18761.2 | 17914.3 | 15894.6 | 15341.3 | 15314.4 | 15549.0 | 14947.4 |
| 52.5° | 17269.7 | 17316.3 | 17763.9 | 18671.7 | 20566.1 | 20857.9 | 18413.9 | 17701.2 | 17681.5 | 17783.6 | 17190.9 |
| 55°   | 16385.2 | 16469.3 | 17019.0 | 18365.5 | 21543.7 | 24184.8 | 21593.9 | 20623.4 | 20474.8 | 20254.5 | 19536.5 |
| 57.5° | 13975.1 | 14109.4 | 14700.3 | 16490.8 | 21087.1 | 26824.0 | 26267.1 | 23928.7 | 23710.3 | 22363.8 | 21443.4 |
| 60°   | 10471.0 | 10635.8 | 11126.4 | 13058.4 | 18650.2 | 27764.0 | 31373.8 | 27611.8 | 27119.4 | 24043.3 | 23196.4 |
| 62.5° | 7185.4  | 7267.8  | 7600.8  | 8859.6  | 13735.2 | 26224.2 | 35646.0 | 32544.8 | 31645.9 | 25869.6 | 25092.6 |
| 65°   | 5488.0  | 5516.6  | 5652.7  | 6086.0  | 8179.2  | 21302.0 | 37345.2 | 39053.4 | 37966.5 | 28054.1 | 27060.4 |
| 67.5° | 4422.6  | 4399.3  | 4587.4  | 5206.9  | 5477.2  | 12995.7 | 35363.1 | 45211.0 | 44702.5 | 30974.5 | 29040.7 |
| 69°   | 3899.8  | 3867.6  | 4059.1  | 4778.9  | 5144.2  | 8591.0  | 31613.7 | 46609.4 | 46641.6 | 32516.1 | 29176.8 |
| 70°   | 3509.4  | 3530.9  | 3720.7  | 4524.7  | 5031.4  | 6743.2  | 28032.6 | 46253.1 | 46507.4 | 33092.7 | 28360.3 |
| 72.5° | 2343.8  | 2401.1  | 2782.5  | 3756.5  | 4838.0  | 5103.0  | 16925.9 | 39690.8 | 40668.4 | 31794.5 | 24331.6 |
| 75°   | 1321.4  | 1364.4  | 1817.4  | 2832.6  | 4558.7  | 4859.5  | 8940.1  | 29241.2 | 30186.6 | 26587.7 | 18763.0 |
| 77.5° | 648.2   | 671.5   | 1027.8  | 1828.1  | 3812.0  | 4630.3  | 5070.8  | 19862.4 | 20942.1 | 17353.9 | 10612.5 |
| 80°   | 274.0   | 286.5   | 513.9   | 1128.0  | 2725.2  | 4419.0  | 3765.5  | 12224.0 | 12358.3 | 6798.7  | 2827.3  |
| 82.5° | 105.6   | 109.2   | 216.7   | 703.7   | 1731.4  | 3445.0  | 3149.6  | 5796.0  | 5656.3  | 1280.2  | 644.6   |
| 85°   | 12.5    | 14.3    | 78.8    | 422.6   | 963.3   | 1772.6  | 2558.7  | 2497.8  | 2311.6  | 254.3   | 331.2   |
| 87.5° | 0.0     | 0.0     | 5.4     | 128.9   | 286.5   | 830.8   | 1330.4  | 1036.7  | 934.7   | 82.4    | 171.9   |
| 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°    | 10693.1 | 10693.1 | 10693.1 | 10693.1 | 10693.1 | 10693.1 | 10693.1 | 10693.1 | 10693.1 | 10693.1 | 10693.1 |
| 2.5°  | 10666.2 | 10648.3 | 10551.6 | 10412.0 | 10279.5 | 10114.7 | 9957.2  | 9862.3  | 9787.1  | 9736.9  | 9796.0  |
| 5°    | 10694.9 | 10616.1 | 10322.4 | 9946.4  | 9577.6  | 9162.2  | 8775.4  | 8447.7  | 8318.8  | 8175.6  | 8240.0  |
| 7.5°  | 10685.9 | 10537.3 | 10009.1 | 9339.4  | 8662.6  | 7962.5  | 7300.0  | 6789.7  | 6524.7  | 6265.1  | 6331.3  |
| 10°   | 10641.1 | 10390.5 | 9590.1  | 8598.1  | 7584.7  | 6578.4  | 5638.4  | 4924.0  | 4524.7  | 4163.0  | 4214.9  |
| 12.5° | 10542.7 | 10193.5 | 9095.9  | 7749.4  | 6394.0  | 5067.2  | 3966.0  | 3051.1  | 2560.5  | 2343.8  | 2370.7  |
| 15°   | 10483.6 | 10001.9 | 8573.1  | 6890.0  | 5122.7  | 3529.1  | 2424.4  | 1803.1  | 1579.3  | 1507.6  | 1516.6  |
| 17.5° | 10454.9 | 9817.5  | 8032.3  | 5907.0  | 3822.8  | 2247.1  | 1566.7  | 1382.3  | 1333.9  | 1321.4  | 1325.0  |
| 20°   | 10426.3 | 9631.3  | 7475.5  | 4934.7  | 2633.9  | 1511.2  | 1287.4  | 1233.7  | 1215.8  | 1199.7  | 1203.2  |
| 22.5° | 10377.9 | 9452.2  | 6877.4  | 3949.9  | 1776.2  | 1226.5  | 1160.3  | 1108.3  | 1070.7  | 1051.0  | 1054.6  |
| 25°   | 10318.9 | 9264.2  | 6266.9  | 2941.8  | 1296.3  | 1094.0  | 1031.3  | 957.9   | 913.2   | 877.4   | 879.2   |
| 27.5° | 10224.0 | 9033.2  | 5636.6  | 2141.5  | 1088.6  | 979.4   | 895.3   | 814.7   | 739.5   | 698.3   | 698.3   |
| 30°   | 10091.5 | 8771.8  | 4936.5  | 1532.7  | 975.8   | 866.6   | 764.6   | 664.3   | 583.7   | 546.1   | 542.5   |
| 32.5° | 9944.6  | 8499.7  | 4229.2  | 1162.1  | 886.3   | 761.0   | 644.6   | 539.0   | 467.3   | 436.9   | 435.1   |
| 35°   | 9819.3  | 8206.0  | 3523.8  | 974.1   | 796.8   | 658.9   | 531.8   | 442.3   | 385.0   | 359.9   | 358.1   |
| 37.5° | 9738.7  | 7912.4  | 2836.2  | 870.2   | 716.2   | 564.0   | 445.8   | 365.3   | 324.1   | 304.4   | 302.6   |
| 40°   | 9726.2  | 7693.9  | 2207.7  | 791.4   | 641.0   | 479.9   | 372.4   | 309.8   | 272.2   | 250.7   | 248.9   |
| 42.5° | 9889.1  | 7568.6  | 1693.8  | 725.2   | 564.0   | 406.5   | 316.9   | 265.0   | 225.6   | 204.1   | 202.3   |
| 45°   | 10317.1 | 7608.0  | 1303.5  | 666.1   | 487.0   | 343.8   | 268.6   | 220.2   | 184.4   | 168.3   | 164.7   |
| 47.5° | 11097.7 | 7880.1  | 1036.7  | 607.0   | 413.6   | 291.9   | 229.2   | 182.6   | 152.2   | 136.1   | 134.3   |
| 50°   | 12487.2 | 8519.4  | 866.6   | 542.5   | 345.6   | 248.9   | 189.8   | 148.6   | 123.5   | 109.2   | 107.4   |
| 52.5° | 14331.4 | 9658.1  | 773.5   | 479.9   | 286.5   | 211.3   | 155.8   | 118.2   | 96.7    | 85.9    | 84.2    |
| 55°   | 16365.5 | 11036.9 | 712.6   | 411.8   | 234.6   | 175.5   | 123.5   | 93.1    | 75.2    | 66.2    | 62.7    |
| 57.5° | 18351.2 | 12231.1 | 655.3   | 345.6   | 195.2   | 143.2   | 98.5    | 73.4    | 59.1    | 50.1    | 48.3    |
| 60°   | 20175.7 | 13328.7 | 589.1   | 277.5   | 159.4   | 112.8   | 77.0    | 57.3    | 46.6    | 37.6    | 37.6    |
| 62.5° | 22129.2 | 14177.5 | 497.8   | 216.7   | 130.7   | 85.9    | 62.7    | 51.9    | 37.6    | 32.2    | 30.4    |
| 65°   | 24199.1 | 14807.7 | 390.3   | 168.3   | 102.1   | 64.5    | 51.9    | 53.7    | 30.4    | 23.3    | 21.5    |
| 67.5° | 25728.2 | 14682.4 | 288.3   | 132.5   | 78.8    | 50.1    | 50.1    | 57.3    | 26.9    | 17.9    | 16.1    |
| 69°   | 25391.6 | 13663.6 | 241.7   | 114.6   | 68.0    | 43.0    | 46.6    | 57.3    | 25.1    | 16.1    | 14.3    |
| 70°   | 24415.7 | 12535.5 | 213.1   | 102.1   | 60.9    | 39.4    | 44.8    | 55.5    | 23.3    | 16.1    | 14.3    |
| 72.5° | 20333.3 | 9441.5  | 166.5   | 77.0    | 48.3    | 32.2    | 37.6    | 48.3    | 23.3    | 16.1    | 12.5    |
| 75°   | 15294.7 | 6043.1  | 127.1   | 55.5    | 35.8    | 25.1    | 28.6    | 35.8    | 23.3    | 14.3    | 12.5    |
| 77.5° | 8322.4  | 2179.1  | 91.3    | 37.6    | 25.1    | 19.7    | 19.7    | 26.9    | 21.5    | 10.7    | 7.2     |
| 80°   | 2139.7  | 547.9   | 57.3    | 25.1    | 19.7    | 14.3    | 12.5    | 17.9    | 12.5    | 1.8     | 0.0     |
| 82.5° | 528.2   | 123.5   | 30.4    | 17.9    | 14.3    | 5.4     | 5.4     | 9.0     | 5.4     | 0.0     | 0.0     |
| 85°   | 290.1   | 60.9    | 19.7    | 12.5    | 7.2     | 0.0     | 0.0     | 1.8     | 0.0     | 0.0     | 0.0     |
| 87.5° | 148.6   | 17.9    | 5.4     | 3.6     | 1.8     | 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     |

(END OF REPORT)