

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: P383026

Luminaire Tested: **GAN-SA3D-735-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383026  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3D-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18852.7 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

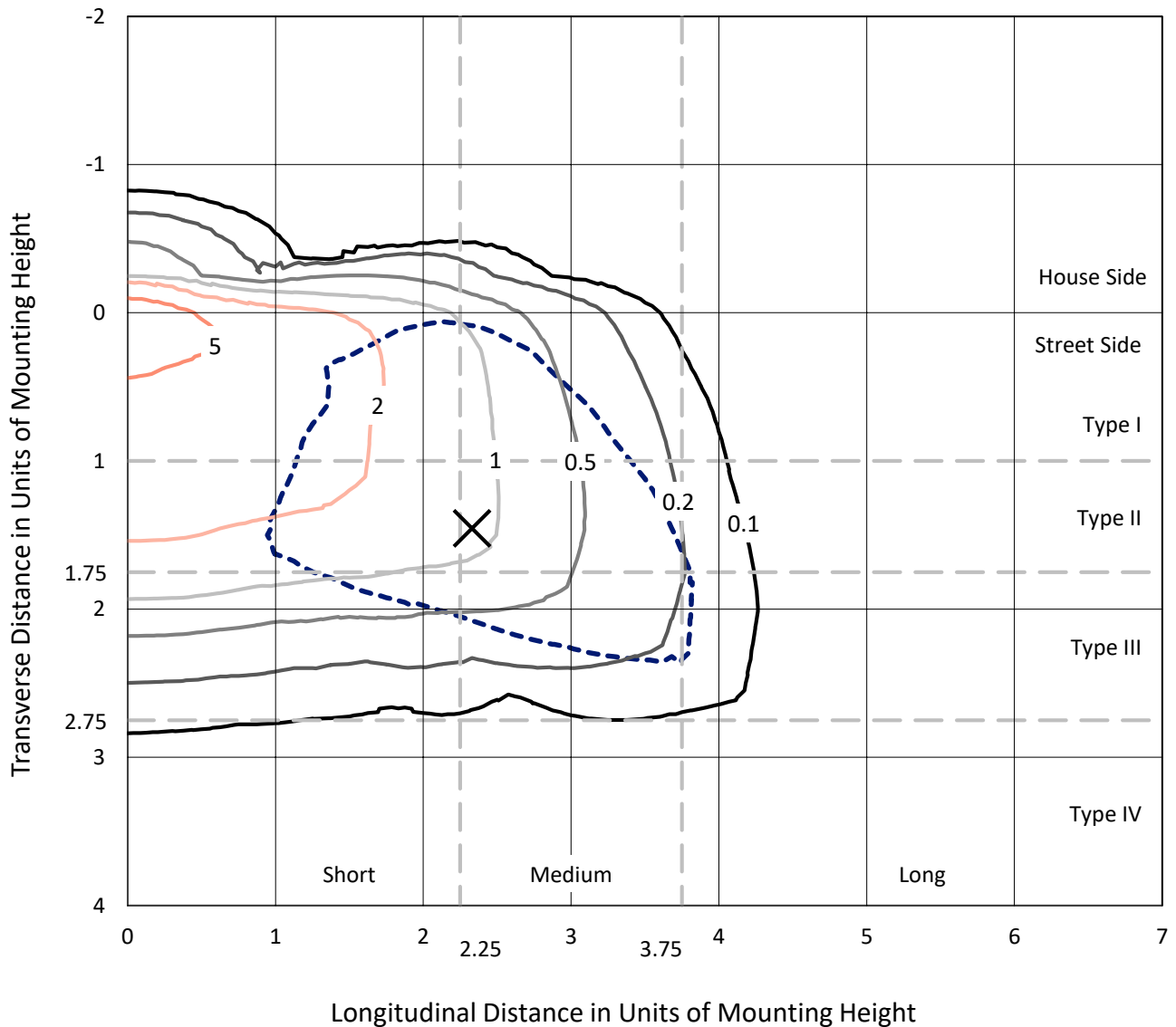
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

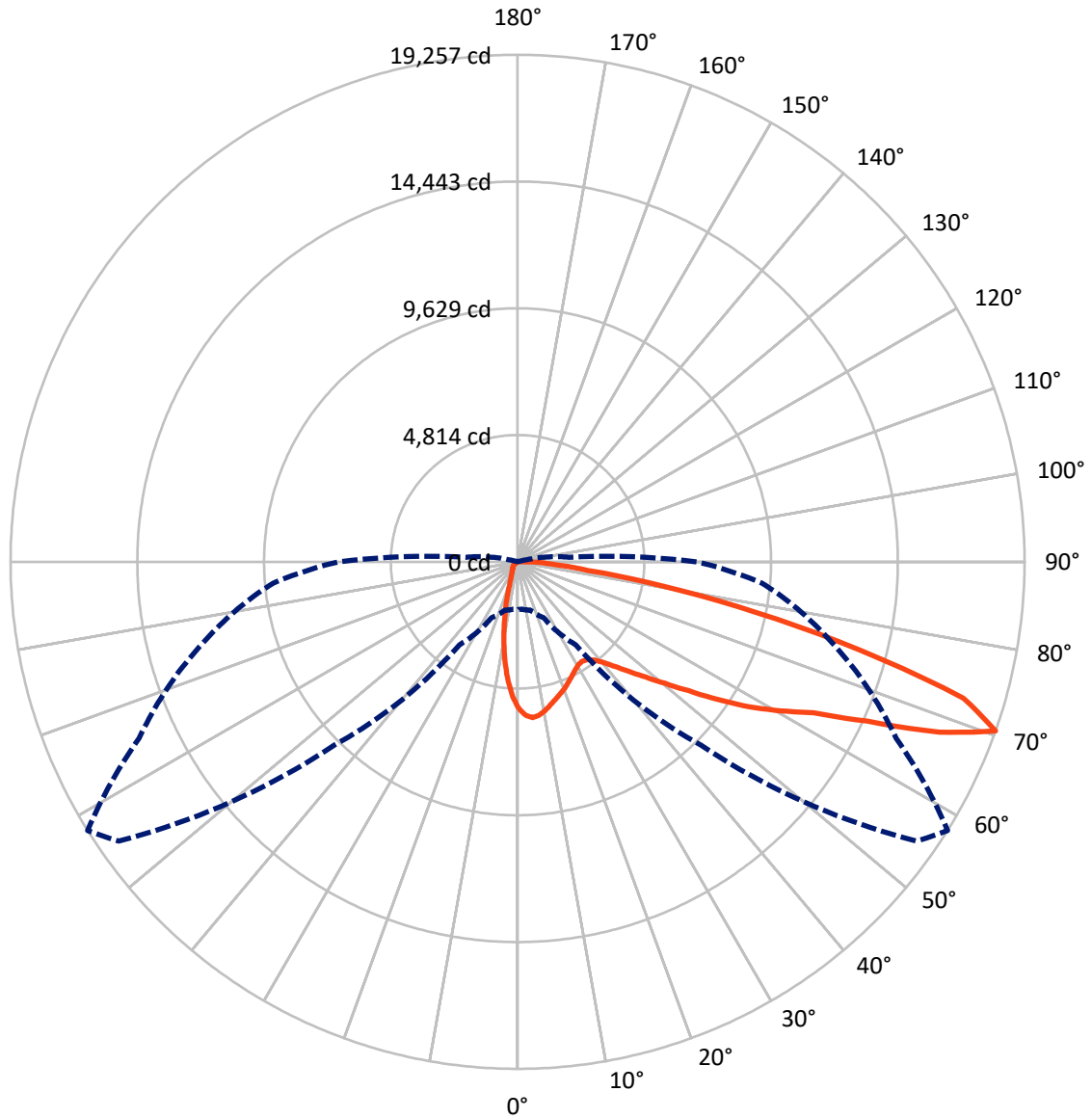
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1613.4   | 0.0    | 1613.4  |
|                    | % Fixture | 8.6      | 0.0    | 8.6     |
| <b>Street Side</b> | Lumens    | 17239.3  | 0.0    | 17239.3 |
|                    | % Fixture | 91.4     | 0.0    | 91.4    |
| <b>Total</b>       | Lumens    | 18852.7  | 0.0    | 18852.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 455.4   | 2.4       |
| 10°-20°   | 955.8   | 5.1       |
| 20°-30°   | 1256.5  | 6.7       |
| 30°-40°   | 1664.1  | 8.8       |
| 40°-50°   | 2487.3  | 13.2      |
| 50°-60°   | 3984.6  | 21.1      |
| 60°-70°   | 5022.6  | 26.6      |
| 70°-80°   | 2709.2  | 14.4      |
| 80°-90°   | 317.1   | 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°    | 18852.7 | 100.0     |
| 0°-180°   | 18852.7 | 100.0     |

**Coefficient of Utilization**

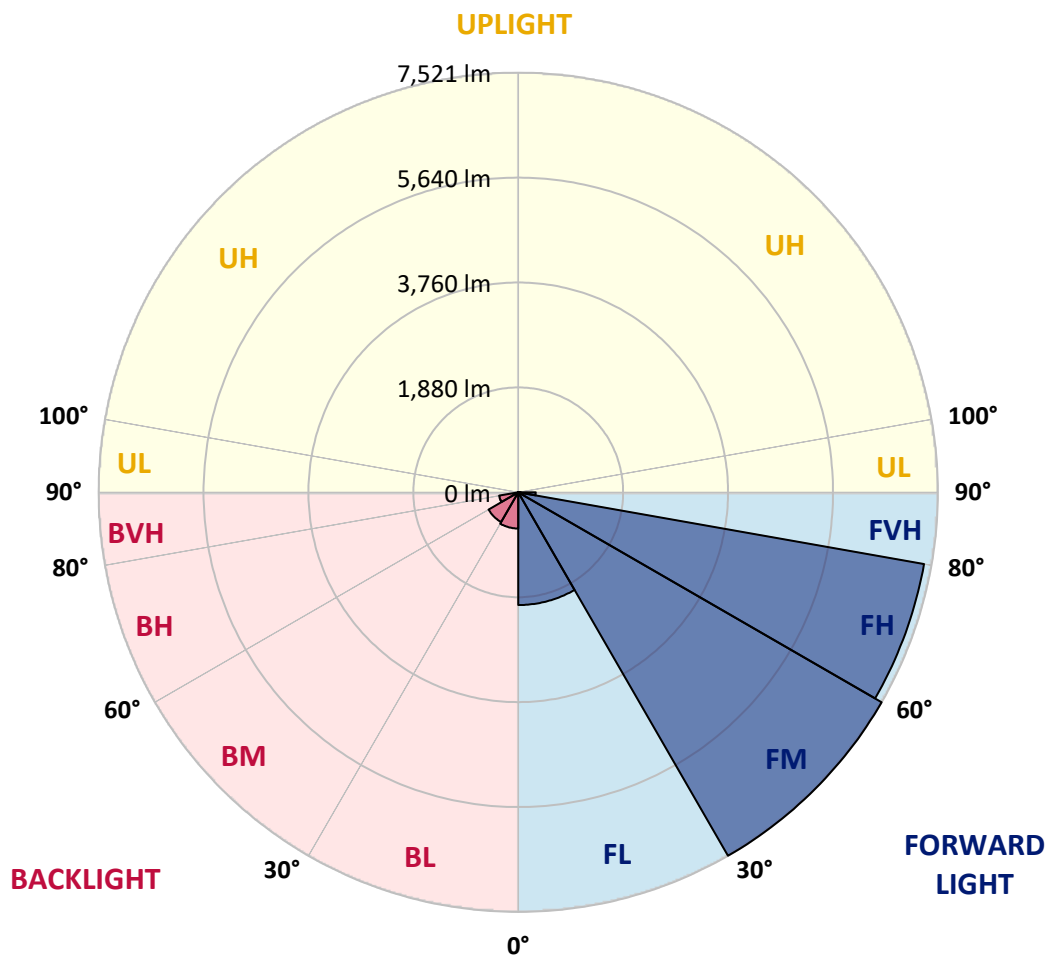


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2019.5 | 10.7      |                         |      |         |
| FM (30°-60°)   | 7520.6 | 39.9      |                         |      |         |
| FH (60°-80°)   | 7384.8 | 39.2      |                         |      | G3/7500 |
| FVH (80°-90°)  | 314.4  | 1.7       |                         |      | G3/500  |
| BL (0°-30°)    | 648.2  | 3.4       | B2/1000                 |      |         |
| BM (30°-60°)   | 615.5  | 3.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 347.0  | 1.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.7    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5569.0 | 5569.0 | 5569.0 | 5569.0 | 5569.0  | 5569.0  | 5569.0  | 5569.0  | 5569.0  | 5569.0  | 5569.0  |
| 2.5°  | 6030.7 | 6015.8 | 6010.3 | 6000.9 | 5964.9  | 5929.6  | 5859.8  | 5840.2  | 5796.4  | 5692.0  | 5581.6  |
| 5°    | 6035.4 | 6034.7 | 6051.1 | 6047.1 | 6034.7  | 6018.2  | 5968.0  | 5942.2  | 5867.6  | 5718.7  | 5516.4  |
| 7.5°  | 5744.6 | 5759.5 | 5796.4 | 5826.1 | 5860.6  | 5905.3  | 5911.6  | 5886.4  | 5825.3  | 5664.6  | 5396.5  |
| 10°   | 5354.2 | 5377.7 | 5429.4 | 5488.2 | 5578.4  | 5667.7  | 5747.7  | 5744.6  | 5723.4  | 5565.1  | 5252.3  |
| 12.5° | 4963.0 | 4990.5 | 5050.0 | 5137.0 | 5264.8  | 5410.6  | 5553.3  | 5572.9  | 5608.2  | 5475.7  | 5119.0  |
| 15°   | 4620.5 | 4644.0 | 4702.7 | 4809.4 | 4967.8  | 5163.7  | 5373.0  | 5409.0  | 5500.0  | 5406.0  | 5007.7  |
| 17.5° | 4329.6 | 4344.5 | 4387.6 | 4506.0 | 4689.4  | 4927.0  | 5199.0  | 5269.5  | 5405.1  | 5351.1  | 4911.3  |
| 20°   | 4126.6 | 4128.9 | 4157.1 | 4240.2 | 4423.6  | 4689.4  | 5018.7  | 5119.8  | 5304.8  | 5304.0  | 4811.7  |
| 22.5° | 4026.2 | 4018.4 | 4023.9 | 4071.7 | 4206.5  | 4462.9  | 4838.4  | 4958.3  | 5214.6  | 5264.1  | 4710.6  |
| 25°   | 4007.4 | 4001.2 | 3985.4 | 3991.8 | 4073.3  | 4264.5  | 4656.5  | 4795.2  | 5135.4  | 5239.8  | 4622.8  |
| 27.5° | 4066.2 | 4072.4 | 4045.8 | 4017.6 | 4023.9  | 4136.0  | 4495.0  | 4655.7  | 5071.2  | 5239.8  | 4560.9  |
| 30°   | 4184.6 | 4187.7 | 4168.1 | 4131.2 | 4081.9  | 4099.9  | 4382.9  | 4543.6  | 5039.0  | 5275.8  | 4521.6  |
| 32.5° | 4315.5 | 4332.7 | 4330.4 | 4300.6 | 4230.1  | 4157.1  | 4356.3  | 4502.8  | 5036.7  | 5355.7  | 4517.7  |
| 35°   | 4477.8 | 4497.3 | 4530.3 | 4524.1 | 4450.4  | 4330.4  | 4447.2  | 4562.4  | 5083.0  | 5487.5  | 4560.1  |
| 37.5° | 4650.2 | 4680.0 | 4750.6 | 4784.2 | 4736.5  | 4600.8  | 4651.0  | 4733.3  | 5206.8  | 5700.7  | 4667.5  |
| 40°   | 4817.2 | 4850.9 | 4979.5 | 5112.0 | 5075.9  | 4936.4  | 4959.8  | 5025.7  | 5427.1  | 6007.2  | 4871.3  |
| 42.5° | 4981.1 | 5031.2 | 5220.1 | 5438.1 | 5481.2  | 5369.9  | 5382.4  | 5434.9  | 5754.0  | 6429.0  | 5204.5  |
| 45°   | 5177.0 | 5233.4 | 5513.4 | 5782.2 | 5897.4  | 5848.8  | 5902.2  | 5936.7  | 6181.2  | 6986.3  | 5653.7  |
| 47.5° | 5464.7 | 5529.8 | 5873.1 | 6179.7 | 6381.9  | 6413.2  | 6520.6  | 6543.4  | 6721.4  | 7635.4  | 6239.2  |
| 50°   | 6026.0 | 6044.1 | 6354.5 | 6632.8 | 6924.4  | 7112.6  | 7234.9  | 7252.1  | 7375.2  | 8344.9  | 6970.7  |
| 52.5° | 6732.3 | 6744.1 | 6919.7 | 7106.2 | 7437.8  | 7822.0  | 8108.1  | 8132.4  | 8158.3  | 9036.3  | 7692.6  |
| 55°   | 7433.9 | 7432.4 | 7548.4 | 7658.2 | 8037.6  | 8595.7  | 9216.5  | 9231.5  | 9045.7  | 9692.4  | 8244.5  |
| 57.5° | 7872.1 | 7914.5 | 8090.9 | 8232.0 | 8761.9  | 9477.7  | 10339.2 | 10394.0 | 9977.8  | 10178.5 | 8790.1  |
| 60°   | 7732.6 | 7753.0 | 8144.1 | 8666.3 | 9664.2  | 10731.1 | 11475.1 | 11489.1 | 10678.6 | 10663.7 | 9480.0  |
| 62.5° | 6588.1 | 6599.1 | 7213.6 | 8290.0 | 10121.3 | 12357.0 | 12845.4 | 12615.7 | 11484.5 | 11337.1 | 10305.4 |
| 65°   | 4515.4 | 4586.8 | 5100.2 | 6430.5 | 9281.7  | 13376.8 | 14966.6 | 14586.5 | 12712.8 | 12307.6 | 11051.8 |
| 67.5° | 2659.1 | 2644.2 | 2898.1 | 3878.0 | 6817.0  | 12699.5 | 17650.0 | 17272.2 | 14388.1 | 12957.5 | 10833.1 |
| 70°   | 1816.3 | 1806.2 | 1903.3 | 2347.9 | 3848.3  | 9851.6  | 18494.3 | 19257.0 | 15867.4 | 12520.0 | 9323.2  |
| 72.5° | 1296.6 | 1302.1 | 1445.6 | 1824.2 | 2416.1  | 5739.9  | 15904.2 | 17709.6 | 15404.1 | 10914.6 | 7086.7  |
| 75°   | 880.3  | 895.2  | 1100.6 | 1496.5 | 2118.2  | 2920.1  | 11286.2 | 13462.3 | 12543.6 | 7932.5  | 4073.3  |
| 77.5° | 473.5  | 490.0  | 732.2  | 1205.7 | 1915.2  | 2028.8  | 7259.9  | 9265.2  | 7879.2  | 3566.1  | 1180.6  |
| 80°   | 197.6  | 207.0  | 342.5  | 876.4  | 1654.9  | 1781.9  | 4271.6  | 5618.3  | 3357.6  | 703.1   | 263.4   |
| 82.5° | 85.4   | 90.2   | 142.7  | 522.9  | 1237.0  | 1504.4  | 2261.6  | 2703.0  | 1017.5  | 154.5   | 132.5   |
| 85°   | 16.5   | 17.2   | 58.8   | 276.8  | 789.4   | 849.0   | 1466.0  | 1436.9  | 457.0   | 66.6    | 96.4    |
| 87.5° | 0.0    | 0.0    | 14.1   | 87.0   | 232.0   | 462.5   | 894.5   | 883.5   | 155.2   | 32.1    | 36.1    |
| 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°    | 5569.0 | 5569.0 | 5569.0 | 5569.0 | 5569.0 | 5569.0 | 5569.0 | 5569.0 | 5569.0 | 5569.0 | 5569.0 |
| 2.5°  | 5525.1 | 5471.0 | 5357.3 | 5217.0 | 5109.6 | 4991.2 | 4897.1 | 4778.0 | 4726.3 | 4728.6 | 4700.4 |
| 5°    | 5401.2 | 5289.9 | 5038.3 | 4720.8 | 4476.2 | 4223.7 | 4006.6 | 3790.3 | 3662.5 | 3620.9 | 3581.7 |
| 7.5°  | 5224.0 | 5047.7 | 4646.3 | 4157.1 | 3743.2 | 3338.8 | 2986.7 | 2677.1 | 2481.1 | 2385.5 | 2350.2 |
| 10°   | 5024.1 | 4776.4 | 4195.6 | 3551.2 | 2960.1 | 2412.9 | 1956.7 | 1560.0 | 1401.7 | 1294.3 | 1266.8 |
| 12.5° | 4848.5 | 4513.1 | 3755.0 | 2929.5 | 2227.9 | 1567.9 | 1132.8 | 885.8  | 778.4  | 736.1  | 729.0  |
| 15°   | 4683.2 | 4266.9 | 3330.8 | 2366.7 | 1542.7 | 965.0  | 720.5  | 636.5  | 611.5  | 604.4  | 604.4  |
| 17.5° | 4527.1 | 4032.5 | 2916.2 | 1812.4 | 1020.7 | 676.5  | 596.6  | 577.7  | 569.9  | 569.1  | 569.9  |
| 20°   | 4364.1 | 3798.1 | 2508.6 | 1327.9 | 712.5  | 573.1  | 551.1  | 540.9  | 538.5  | 538.5  | 538.5  |
| 22.5° | 4208.1 | 3563.7 | 2111.9 | 948.5  | 571.5  | 522.9  | 511.9  | 504.8  | 502.5  | 501.7  | 500.1  |
| 25°   | 4058.4 | 3341.1 | 1724.7 | 670.2  | 501.7  | 479.0  | 469.6  | 460.2  | 453.1  | 449.2  | 446.9  |
| 27.5° | 3935.3 | 3142.8 | 1364.1 | 537.8  | 453.1  | 433.5  | 421.7  | 407.6  | 390.4  | 382.6  | 379.4  |
| 30°   | 3837.3 | 2961.7 | 1051.3 | 453.8  | 407.6  | 388.1  | 370.0  | 345.7  | 320.6  | 307.3  | 306.5  |
| 32.5° | 3760.5 | 2783.7 | 798.1  | 401.4  | 366.8  | 342.5  | 316.7  | 286.2  | 257.1  | 242.2  | 241.5  |
| 35°   | 3722.8 | 2627.0 | 609.9  | 362.9  | 330.8  | 300.2  | 268.1  | 234.4  | 206.2  | 192.1  | 190.5  |
| 37.5° | 3747.9 | 2494.4 | 475.8  | 330.8  | 300.2  | 264.9  | 227.3  | 192.1  | 166.9  | 154.5  | 153.6  |
| 40°   | 3839.7 | 2409.8 | 386.5  | 303.4  | 274.3  | 231.3  | 190.5  | 157.5  | 136.4  | 126.2  | 125.4  |
| 42.5° | 4034.8 | 2378.4 | 330.0  | 280.7  | 249.3  | 199.9  | 158.4  | 130.1  | 110.6  | 103.5  | 101.9  |
| 45°   | 4360.9 | 2424.6 | 291.6  | 258.7  | 223.4  | 170.1  | 130.9  | 106.6  | 89.3   | 83.8   | 83.1   |
| 47.5° | 4795.2 | 2546.2 | 264.2  | 237.5  | 199.9  | 143.5  | 109.0  | 86.3   | 72.9   | 67.4   | 66.6   |
| 50°   | 5355.0 | 2739.0 | 241.5  | 216.4  | 177.9  | 121.5  | 90.2   | 68.2   | 56.5   | 52.5   | 52.5   |
| 52.5° | 5964.0 | 2968.7 | 221.1  | 196.7  | 156.0  | 101.2  | 72.9   | 52.5   | 44.7   | 40.0   | 40.0   |
| 55°   | 6467.4 | 3169.4 | 199.1  | 181.8  | 129.4  | 83.8   | 55.6   | 40.0   | 32.9   | 30.6   | 30.6   |
| 57.5° | 6969.8 | 3383.4 | 174.0  | 156.0  | 103.5  | 68.2   | 42.3   | 29.8   | 24.3   | 22.7   | 22.7   |
| 60°   | 7621.3 | 3645.2 | 149.7  | 127.0  | 81.5   | 51.7   | 31.4   | 21.1   | 18.1   | 17.2   | 17.2   |
| 62.5° | 8337.8 | 3798.9 | 127.8  | 101.9  | 63.5   | 38.4   | 22.7   | 14.1   | 13.3   | 13.3   | 12.6   |
| 65°   | 8776.0 | 3581.7 | 107.4  | 81.5   | 49.4   | 29.0   | 14.9   | 10.2   | 11.7   | 11.0   | 9.4    |
| 67.5° | 8217.1 | 2804.1 | 87.8   | 63.5   | 38.4   | 22.0   | 9.4    | 7.1    | 12.6   | 10.2   | 7.8    |
| 70°   | 6803.7 | 1963.0 | 68.2   | 44.7   | 30.6   | 18.8   | 6.2    | 4.7    | 13.3   | 10.2   | 6.2    |
| 72.5° | 5091.6 | 1313.9 | 54.1   | 29.8   | 22.7   | 16.5   | 5.5    | 2.3    | 11.7   | 8.7    | 5.5    |
| 75°   | 2782.2 | 529.1  | 43.1   | 18.8   | 14.1   | 11.7   | 3.9    | 1.6    | 7.8    | 6.2    | 3.9    |
| 77.5° | 732.2  | 139.5  | 31.4   | 12.6   | 7.8    | 4.7    | 2.3    | 0.7    | 3.9    | 3.2    | 1.6    |
| 80°   | 186.6  | 54.1   | 20.4   | 8.7    | 5.5    | 2.3    | 0.0    | 0.0    | 0.7    | 0.0    | 0.0    |
| 82.5° | 99.6   | 22.7   | 12.6   | 6.2    | 3.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 75.3   | 14.9   | 7.1    | 3.9    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 29.0   | 4.7    | 2.3    | 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    |

(END OF REPORT)