

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: P190916

Luminaire Tested: **GAN-AF-08-LED-U-AFL-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-08-LED-U-AFL-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26320.5 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

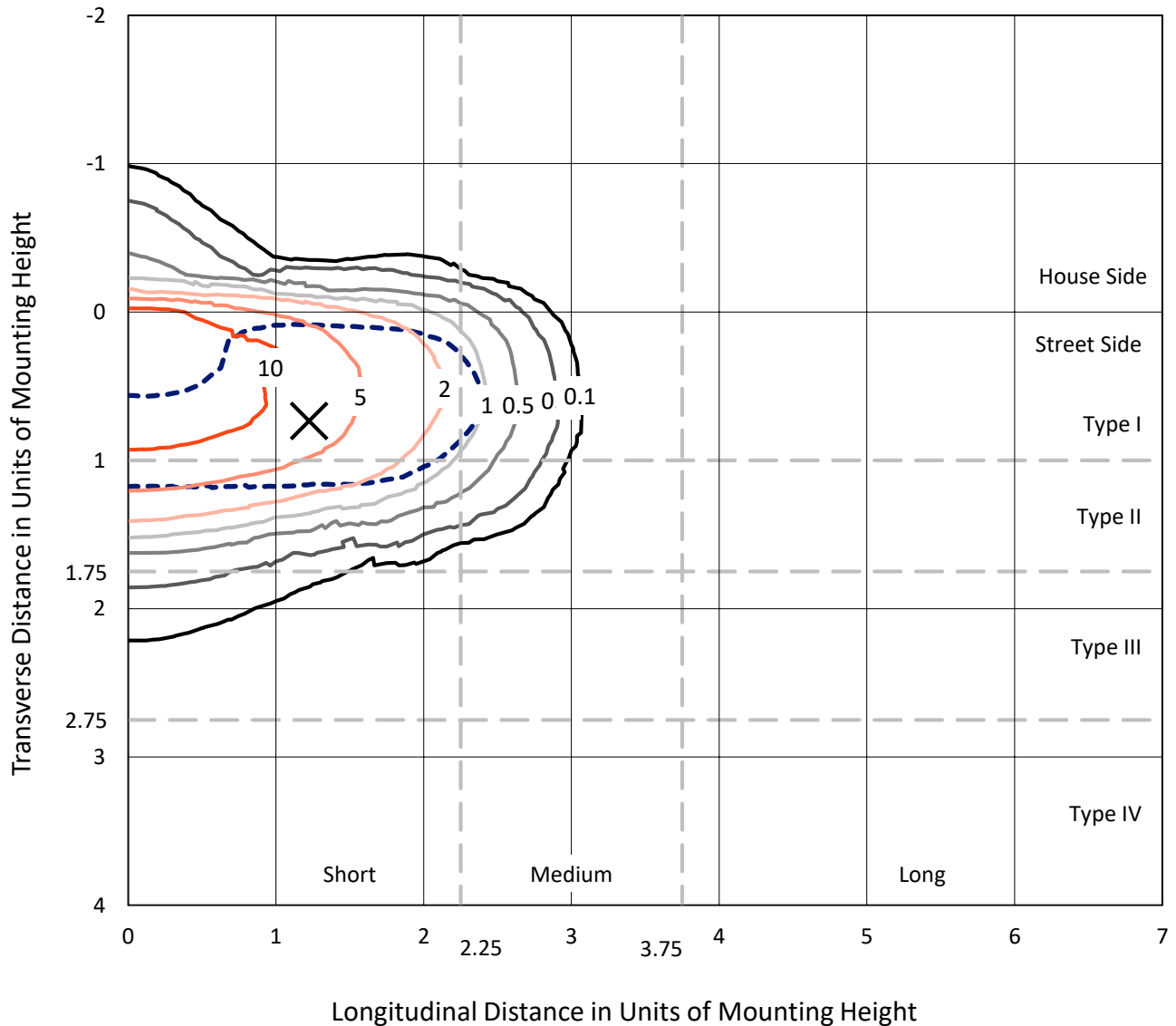
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

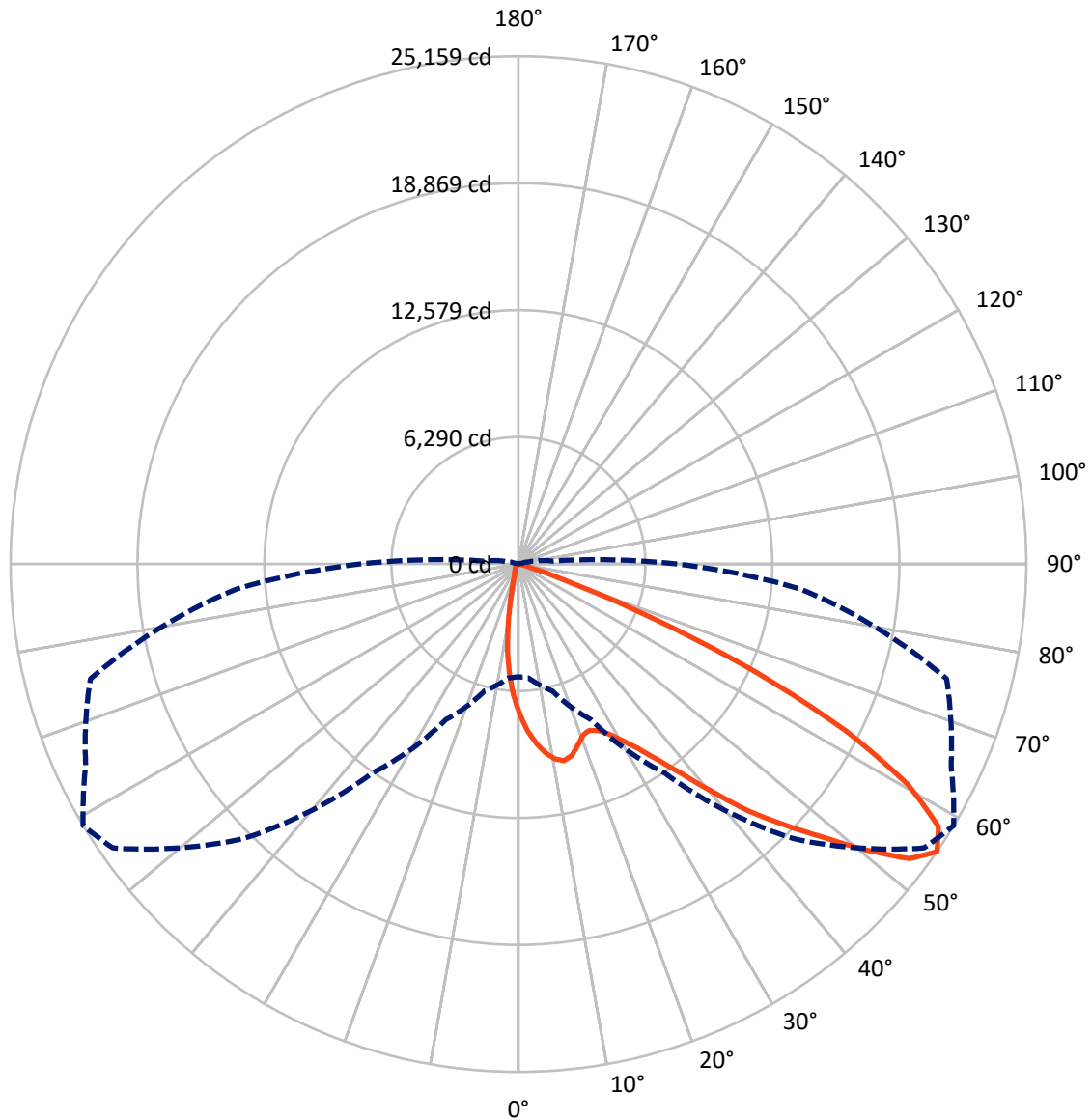
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1470.2   | 0.0    | 1470.2  |
|                    | % Fixture | 5.6      | 0.0    | 5.6     |
| <b>Street Side</b> | Lumens    | 24850.4  | 0.0    | 24850.4 |
|                    | % Fixture | 94.4     | 0.0    | 94.4    |
| <b>Total</b>       | Lumens    | 26320.5  | 0.0    | 26320.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 620.6   | 2.4       |
| 10°-20°   | 1485.9  | 5.6       |
| 20°-30°   | 2528.4  | 9.6       |
| 30°-40°   | 4348.3  | 16.5      |
| 40°-50°   | 6713.3  | 25.5      |
| 50°-60°   | 6749.0  | 25.6      |
| 60°-70°   | 3460.9  | 13.1      |
| 70°-80°   | 375.1   | 1.4       |
| 80°-90°   | 39.2    | 0.1       |
| 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°    | 26320.5 | 100.0     |
| 0°-180°   | 26320.5 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P190916

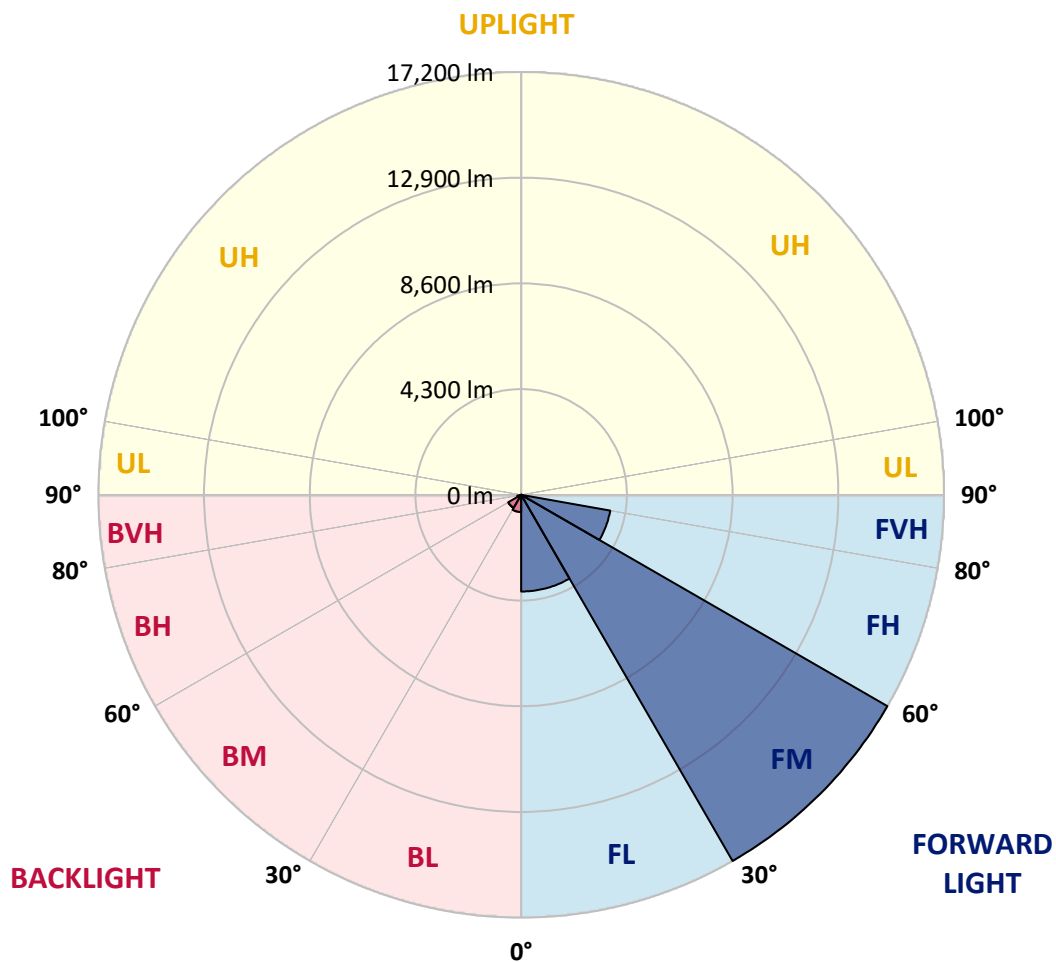
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3933.2  | 14.9      |                         |      |         |
| FM   | (30°-60°)   | 17200.4 | 65.3      |                         |      |         |
| FH   | (60°-80°)   | 3678.5  | 14.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 38.4    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 701.7   | 2.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 610.1   | 2.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 157.5   | 0.6       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 0.8     | 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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7409.1  | 7409.1  | 7409.1  | 7409.1  | 7409.1  | 7409.1  | 7409.1  | 7409.1  | 7409.1  | 7409.1  | 7409.1  |
| 2.5°  | 8766.7  | 8673.5  | 8645.6  | 8626.9  | 8541.4  | 8434.3  | 8288.3  | 8219.9  | 8080.2  | 7854.9  | 7578.4  |
| 5°    | 9569.7  | 9552.6  | 9490.5  | 9456.4  | 9364.7  | 9212.5  | 8979.5  | 8867.7  | 8645.6  | 8266.6  | 7771.1  |
| 7.5°  | 9218.7  | 9325.8  | 9411.4  | 9554.3  | 9734.4  | 9728.2  | 9532.5  | 9416.0  | 9167.5  | 8667.3  | 7985.4  |
| 10°   | 7862.7  | 7949.7  | 8089.5  | 8414.1  | 9075.8  | 9659.8  | 9889.7  | 9805.8  | 9607.0  | 9035.4  | 8192.0  |
| 12.5° | 7597.0  | 7587.7  | 7612.6  | 7707.3  | 8053.7  | 8886.3  | 9829.1  | 9998.4  | 9958.0  | 9372.5  | 8387.7  |
| 15°   | 7738.4  | 7727.6  | 7724.4  | 7757.0  | 7840.9  | 8192.0  | 9374.0  | 9860.2  | 10172.4 | 9684.7  | 8553.9  |
| 17.5° | 8134.5  | 8088.0  | 8063.1  | 8036.6  | 8011.9  | 8098.8  | 8827.2  | 9473.4  | 10205.1 | 9958.0  | 8692.1  |
| 20°   | 8813.3  | 8735.6  | 8644.0  | 8494.9  | 8355.1  | 8311.6  | 8597.4  | 9075.8  | 10088.5 | 10166.2 | 8782.2  |
| 22.5° | 9666.1  | 9566.6  | 9408.2  | 9136.4  | 8852.1  | 8687.5  | 8710.7  | 8950.0  | 9914.5  | 10393.0 | 8824.2  |
| 25°   | 10624.4 | 10497.0 | 10285.8 | 9908.4  | 9490.5  | 9198.5  | 9046.3  | 9130.1  | 9835.4  | 10658.6 | 8872.4  |
| 27.5° | 11651.1 | 11509.8 | 11233.3 | 10719.2 | 10245.5 | 9850.9  | 9540.2  | 9529.4  | 9970.5  | 11006.5 | 8950.0  |
| 30°   | 12668.5 | 12646.7 | 12286.5 | 11742.8 | 11115.3 | 10635.3 | 10188.0 | 10130.5 | 10348.0 | 11488.0 | 9103.8  |
| 32.5° | 14026.1 | 13863.0 | 13421.8 | 12862.7 | 12138.8 | 11562.6 | 11032.9 | 10899.3 | 10927.3 | 12048.7 | 9341.4  |
| 35°   | 15737.8 | 15559.2 | 14937.8 | 14165.9 | 13356.7 | 12676.3 | 12090.7 | 11909.0 | 11840.7 | 12966.7 | 9742.2  |
| 37.5° | 16843.7 | 16840.6 | 16450.8 | 15664.8 | 14796.5 | 14046.2 | 13409.5 | 13196.7 | 13058.4 | 14075.8 | 10363.5 |
| 40°   | 16873.3 | 16946.3 | 16997.6 | 16989.8 | 16371.5 | 15680.3 | 15114.9 | 14852.4 | 14530.9 | 15557.6 | 11166.5 |
| 42.5° | 15967.6 | 16155.7 | 16607.6 | 17374.9 | 17741.5 | 17466.6 | 16989.8 | 16731.9 | 16253.5 | 17143.5 | 12145.1 |
| 45°   | 14743.7 | 14874.2 | 15664.8 | 17078.3 | 18484.0 | 19237.3 | 18873.9 | 18412.5 | 17782.0 | 18797.7 | 13022.7 |
| 47.5° | 14195.4 | 14218.7 | 14729.8 | 16281.5 | 18540.0 | 20688.1 | 20908.7 | 20158.5 | 19170.5 | 20130.4 | 13709.2 |
| 50°   | 12556.7 | 12598.7 | 13303.8 | 14900.6 | 17884.5 | 21373.1 | 22952.8 | 22241.4 | 20685.0 | 21157.2 | 13959.3 |
| 52.5° | 9464.1  | 9523.2  | 10417.8 | 12631.3 | 16082.6 | 21081.1 | 24416.0 | 24243.5 | 22343.9 | 21658.9 | 13973.3 |
| 55°   | 5584.0  | 5661.7  | 6516.0  | 8502.7  | 12649.9 | 19223.4 | 24524.7 | 25158.5 | 23653.3 | 21955.6 | 13951.5 |
| 57.5° | 2607.9  | 2662.3  | 3151.6  | 4380.3  | 7867.3  | 15192.6 | 22887.5 | 24530.9 | 24375.6 | 22112.4 | 14105.3 |
| 60°   | 1385.5  | 1401.0  | 1519.1  | 1896.6  | 3555.5  | 9633.4  | 19692.4 | 22151.3 | 23717.0 | 22329.9 | 14293.3 |
| 62.5° | 1059.4  | 1064.0  | 1057.7  | 1102.8  | 1494.2  | 4276.1  | 14885.1 | 18210.7 | 21065.5 | 22166.8 | 14085.1 |
| 65°   | 918.0   | 925.8   | 882.3   | 871.3   | 958.4   | 1525.3  | 8842.8  | 12980.7 | 16553.3 | 19965.9 | 12667.0 |
| 67.5° | 823.3   | 826.3   | 773.6   | 728.4   | 744.0   | 824.8   | 3488.7  | 7106.2  | 10956.8 | 14634.9 | 9181.4  |
| 70°   | 758.0   | 754.9   | 697.4   | 625.9   | 605.8   | 563.9   | 1109.1  | 2604.8  | 5236.1  | 7421.5  | 4270.0  |
| 72.5° | 671.1   | 672.6   | 644.6   | 551.4   | 503.3   | 394.6   | 514.1   | 759.5   | 1562.6  | 2022.4  | 1000.3  |
| 75°   | 594.9   | 587.2   | 553.0   | 494.0   | 414.7   | 259.4   | 254.7   | 338.6   | 481.5   | 478.4   | 215.9   |
| 77.5° | 430.3   | 422.5   | 433.3   | 405.4   | 318.4   | 167.8   | 127.4   | 163.1   | 195.7   | 189.5   | 60.6    |
| 80°   | 315.3   | 310.7   | 279.6   | 337.1   | 281.1   | 115.0   | 79.2    | 87.0    | 101.0   | 85.4    | 18.6    |
| 82.5° | 215.9   | 214.3   | 197.2   | 186.4   | 160.0   | 69.9    | 49.7    | 54.3    | 65.3    | 48.2    | 9.3     |
| 85°   | 34.2    | 38.9    | 142.9   | 113.3   | 94.7    | 31.1    | 34.2    | 37.2    | 43.5    | 26.4    | 3.1     |
| 87.5° | 0.0     | 0.0     | 66.8    | 59.0    | 18.6    | 12.4    | 20.2    | 21.8    | 21.8    | 14.0    | 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     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7409.1 | 7409.1 | 7409.1 | 7409.1 | 7409.1 | 7409.1 | 7409.1 | 7409.1 | 7409.1 | 7409.1 | 7409.1 |
| 2.5°  | 7437.1 | 7281.8 | 6994.4 | 6697.8 | 6422.8 | 6095.0 | 5869.8 | 5700.5 | 5504.8 | 5452.0 | 5566.9 |
| 5°    | 7488.3 | 7194.8 | 6576.6 | 5904.0 | 5271.8 | 4571.3 | 4035.4 | 3611.3 | 3227.7 | 3097.2 | 3215.2 |
| 7.5°  | 7569.1 | 7132.6 | 6124.6 | 5017.1 | 3917.4 | 2823.9 | 2075.2 | 1582.8 | 1269.1 | 1175.9 | 1225.5 |
| 10°   | 7649.9 | 7042.6 | 5601.2 | 3967.1 | 2463.5 | 1374.6 | 894.7  | 714.5  | 647.7  | 633.7  | 641.5  |
| 12.5° | 7716.7 | 6921.4 | 4962.7 | 2820.8 | 1317.2 | 736.2  | 585.5  | 556.1  | 546.8  | 546.8  | 549.8  |
| 15°   | 7757.0 | 6738.1 | 4206.3 | 1794.1 | 758.0  | 556.1  | 511.1  | 501.8  | 501.8  | 503.3  | 506.4  |
| 17.5° | 7752.4 | 6505.1 | 3378.4 | 1085.8 | 566.9  | 492.3  | 466.0  | 458.2  | 456.6  | 459.8  | 461.4  |
| 20°   | 7694.9 | 6200.7 | 2547.4 | 716.1  | 494.0  | 448.9  | 422.5  | 408.5  | 406.9  | 410.1  | 413.2  |
| 22.5° | 7586.2 | 5824.8 | 1822.0 | 551.4  | 445.8  | 406.9  | 374.3  | 361.9  | 361.9  | 365.0  | 368.2  |
| 25°   | 7454.1 | 5365.1 | 1245.7 | 467.5  | 402.3  | 361.9  | 330.8  | 320.0  | 323.0  | 330.8  | 332.4  |
| 27.5° | 7289.5 | 4847.8 | 846.5  | 400.8  | 349.4  | 316.9  | 293.6  | 285.8  | 293.6  | 304.4  | 307.5  |
| 30°   | 7148.2 | 4308.8 | 604.3  | 346.4  | 296.7  | 273.3  | 259.4  | 259.4  | 270.3  | 290.4  | 295.1  |
| 32.5° | 7039.4 | 3786.9 | 466.0  | 306.0  | 257.9  | 237.6  | 229.9  | 237.6  | 254.7  | 275.0  | 279.6  |
| 35°   | 7025.5 | 3356.6 | 394.6  | 273.3  | 229.9  | 209.7  | 206.6  | 220.5  | 237.6  | 253.2  | 256.2  |
| 37.5° | 7132.6 | 2959.0 | 355.7  | 246.9  | 205.0  | 186.4  | 183.3  | 200.4  | 217.5  | 236.1  | 240.8  |
| 40°   | 7336.1 | 2646.8 | 327.8  | 222.1  | 184.8  | 164.7  | 158.5  | 170.8  | 194.2  | 219.0  | 225.3  |
| 42.5° | 7600.2 | 2388.9 | 296.7  | 197.2  | 164.7  | 136.7  | 128.9  | 142.9  | 167.8  | 194.2  | 201.9  |
| 45°   | 7851.9 | 2166.8 | 262.5  | 169.3  | 138.2  | 105.7  | 102.5  | 121.1  | 133.6  | 160.0  | 166.2  |
| 47.5° | 7990.1 | 1971.1 | 233.0  | 138.2  | 107.2  | 85.4   | 85.4   | 90.1   | 102.5  | 133.6  | 139.8  |
| 50°   | 7943.4 | 1814.2 | 201.9  | 102.5  | 74.6   | 65.3   | 65.3   | 63.7   | 82.3   | 107.2  | 111.8  |
| 52.5° | 7850.2 | 1724.2 | 174.0  | 79.2   | 51.2   | 46.6   | 41.9   | 46.6   | 57.5   | 68.3   | 69.9   |
| 55°   | 7836.3 | 1708.6 | 146.0  | 63.7   | 35.7   | 31.1   | 23.3   | 23.3   | 23.3   | 21.8   | 18.6   |
| 57.5° | 7945.1 | 1733.5 | 122.8  | 51.2   | 26.4   | 20.2   | 12.4   | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 8056.9 | 1759.9 | 105.7  | 35.7   | 18.6   | 10.8   | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 7870.5 | 1700.9 | 88.6   | 21.8   | 14.0   | 4.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 6913.6 | 1447.7 | 69.9   | 15.5   | 9.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 4917.6 | 969.2  | 46.6   | 9.3    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 2244.5 | 405.4  | 29.6   | 3.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 480.0  | 125.8  | 20.2   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 97.9   | 91.7   | 7.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 31.1   | 144.4  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 18.6   | 104.0  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 3.1    | 15.5   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 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)