

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: P192586

Luminaire Tested: **GAN-AF-08-LED-U-5NQ-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192586  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
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-5NQ-7030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38451.6 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 334  
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

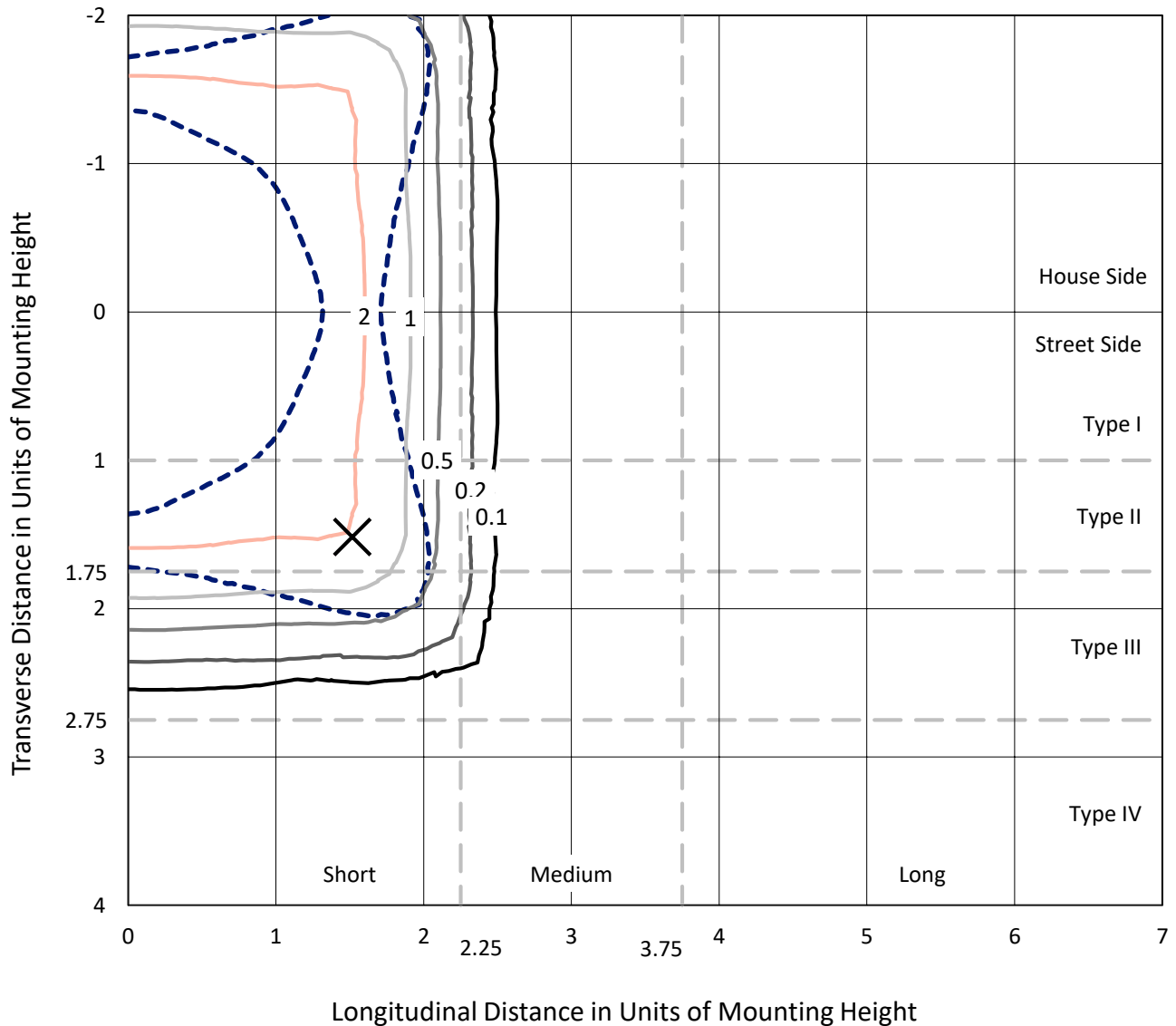


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

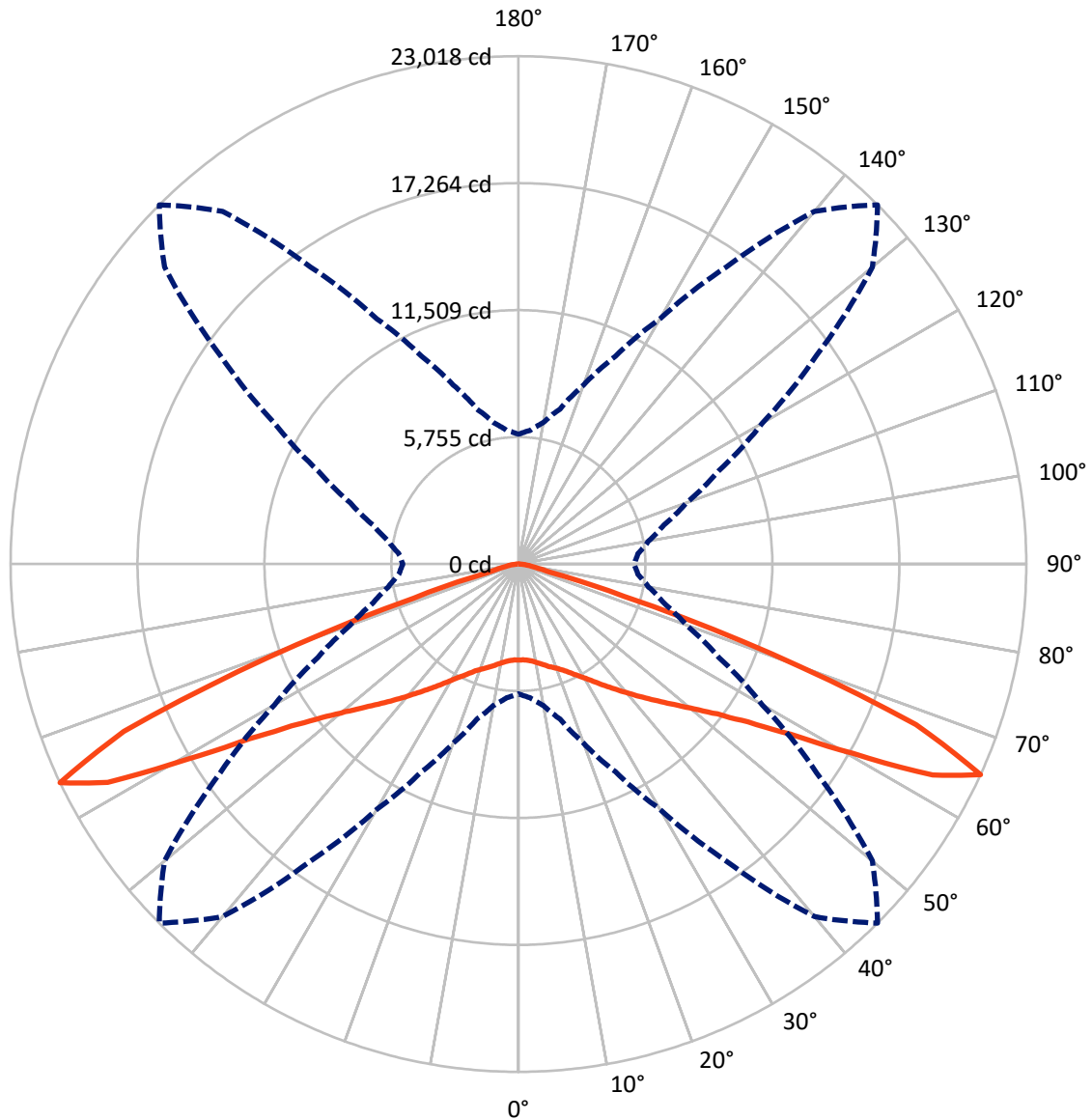


Based on 30 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 19225.8  | 0.0    | 19225.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 19225.8  | 0.0    | 19225.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 38451.6  | 0.0    | 38451.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 424.1   | 1.1       |
| 10°-20°   | 1360.1  | 3.5       |
| 20°-30°   | 2543.0  | 6.6       |
| 30°-40°   | 4301.0  | 11.2      |
| 40°-50°   | 7032.6  | 18.3      |
| 50°-60°   | 11182.9 | 29.1      |
| 60°-70°   | 10108.6 | 26.3      |
| 70°-80°   | 1279.3  | 3.3       |
| 80°-90°   | 220.1   | 0.6       |
| 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°    | 38451.6 | 100.0     |
| 0°-180°   | 38451.6 | 100.0     |

**Coefficient of Utilization**



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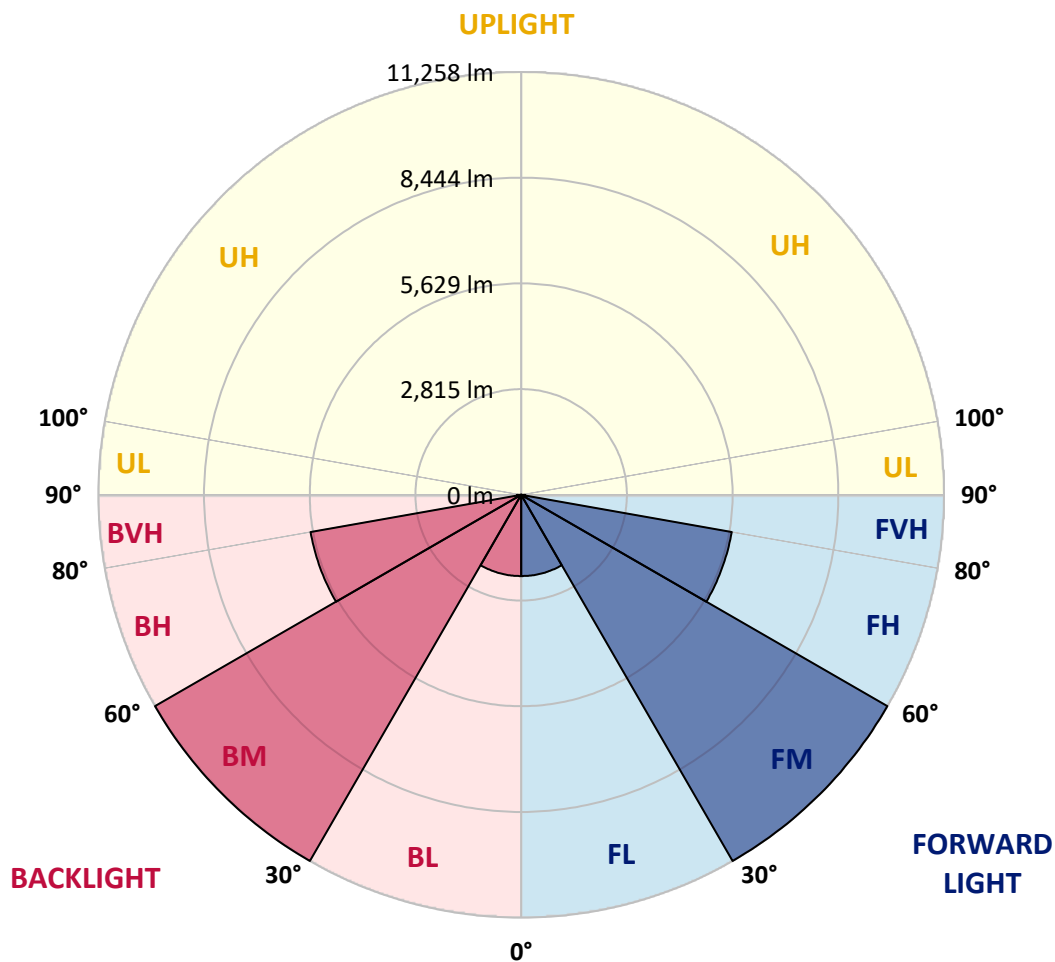
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2163.6  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 11258.2 | 29.3      |                         |      |         |
| FH   | (60°-80°)   | 5694.0  | 14.8      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 110.0   | 0.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 2163.6  | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 11258.2 | 29.3      | B5                      |      |         |
| BH   | (60°-80°)   | 5694.0  | 14.8      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 110.0   | 0.3       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4350.8  | 4350.8  | 4350.8  | 4350.8  | 4350.8  | 4350.8  | 4350.8  | 4350.8  | 4350.8  | 4350.8  | 4350.8  |
| 2.5°  | 4354.4  | 4358.1  | 4361.6  | 4358.1  | 4361.6  | 4356.2  | 4352.7  | 4358.1  | 4352.7  | 4347.2  | 4350.8  |
| 5°    | 4392.2  | 4394.1  | 4394.1  | 4388.6  | 4394.1  | 4390.5  | 4385.0  | 4392.2  | 4386.9  | 4381.4  | 4385.0  |
| 7.5°  | 4455.3  | 4462.4  | 4457.1  | 4451.7  | 4455.3  | 4451.7  | 4448.1  | 4449.9  | 4448.1  | 4442.7  | 4444.4  |
| 10°   | 4539.9  | 4545.3  | 4541.7  | 4539.9  | 4543.5  | 4541.7  | 4538.1  | 4536.3  | 4538.1  | 4532.7  | 4532.7  |
| 12.5° | 4642.5  | 4640.8  | 4638.9  | 4640.8  | 4646.1  | 4646.1  | 4644.4  | 4646.1  | 4649.7  | 4651.6  | 4648.0  |
| 15°   | 4743.4  | 4747.0  | 4747.0  | 4747.0  | 4757.8  | 4766.8  | 4772.2  | 4775.8  | 4783.1  | 4784.8  | 4777.6  |
| 17.5° | 4869.4  | 4869.4  | 4867.6  | 4869.4  | 4880.3  | 4894.7  | 4900.1  | 4907.3  | 4914.5  | 4919.8  | 4910.8  |
| 20°   | 5010.0  | 5013.6  | 5013.6  | 5017.0  | 5031.5  | 5047.8  | 5047.8  | 5051.4  | 5047.8  | 5051.4  | 5045.9  |
| 22.5° | 5181.0  | 5191.8  | 5191.8  | 5193.6  | 5208.1  | 5227.8  | 5222.4  | 5227.8  | 5218.9  | 5226.0  | 5218.9  |
| 25°   | 5404.3  | 5420.6  | 5417.0  | 5417.0  | 5427.7  | 5440.3  | 5442.1  | 5452.9  | 5451.2  | 5460.1  | 5454.8  |
| 27.5° | 5656.5  | 5681.6  | 5688.8  | 5687.1  | 5694.3  | 5706.8  | 5710.4  | 5723.1  | 5715.9  | 5723.1  | 5719.5  |
| 30°   | 5959.0  | 5969.8  | 5984.1  | 5989.6  | 5998.6  | 6011.2  | 6011.2  | 6013.0  | 6004.1  | 6014.8  | 6020.1  |
| 32.5° | 6272.3  | 6292.1  | 6306.6  | 6338.9  | 6355.2  | 6364.2  | 6362.3  | 6366.0  | 6356.9  | 6371.4  | 6382.2  |
| 35°   | 6686.5  | 6700.9  | 6724.4  | 6749.5  | 6771.2  | 6769.3  | 6763.9  | 6765.8  | 6765.8  | 6778.3  | 6789.2  |
| 37.5° | 7185.3  | 7188.9  | 7219.6  | 7255.6  | 7266.4  | 7255.6  | 7223.1  | 7215.9  | 7199.7  | 7215.9  | 7233.9  |
| 40°   | 7712.9  | 7725.6  | 7786.8  | 7810.2  | 7815.7  | 7795.8  | 7749.0  | 7722.0  | 7686.0  | 7705.7  | 7730.9  |
| 42.5° | 8265.8  | 8291.0  | 8346.9  | 8388.3  | 8406.3  | 8393.8  | 8328.9  | 8287.5  | 8240.7  | 8251.5  | 8276.6  |
| 45°   | 8878.1  | 8908.8  | 8988.0  | 9027.5  | 9061.9  | 9042.0  | 8978.9  | 8916.0  | 8842.2  | 8847.5  | 8887.1  |
| 47.5° | 9562.5  | 9593.1  | 9695.6  | 9762.4  | 9780.4  | 9776.7  | 9706.5  | 9620.1  | 9519.2  | 9515.6  | 9549.8  |
| 50°   | 10329.6 | 10360.2 | 10488.2 | 10590.7 | 10643.0 | 10637.6 | 10554.7 | 10432.3 | 10309.8 | 10311.6 | 10354.8 |
| 52.5° | 11078.8 | 11116.6 | 11249.8 | 11426.4 | 11528.9 | 11602.8 | 11552.4 | 11437.1 | 11287.7 | 11291.3 | 11330.8 |
| 55°   | 11781.1 | 11844.1 | 11997.2 | 12236.7 | 12427.5 | 12634.6 | 12694.1 | 12690.5 | 12600.5 | 12625.7 | 12665.4 |
| 57.5° | 12121.4 | 12215.0 | 12450.9 | 12829.1 | 13218.1 | 13639.5 | 13996.1 | 14262.6 | 14376.2 | 14547.1 | 14507.6 |
| 60°   | 11476.7 | 11626.2 | 11973.7 | 12530.2 | 13299.1 | 14178.0 | 15119.9 | 16040.1 | 16825.2 | 17417.7 | 17077.3 |
| 62.5° | 9396.8  | 9591.3  | 10012.6 | 10725.8 | 11889.1 | 13295.5 | 15098.2 | 17273.7 | 19643.5 | 21073.4 | 20052.4 |
| 65°   | 5879.7  | 6081.4  | 6510.0  | 7273.6  | 8635.0  | 10383.7 | 12829.1 | 16434.4 | 20862.7 | 23018.3 | 20940.1 |
| 67.5° | 2292.5  | 2402.3  | 2634.7  | 3122.6  | 4145.6  | 5701.4  | 8155.9  | 12247.5 | 17543.8 | 19432.9 | 17217.8 |
| 70°   | 1149.0  | 1159.8  | 1203.0  | 1293.0  | 1512.7  | 1964.7  | 2989.5  | 5677.9  | 10061.2 | 12152.1 | 9699.3  |
| 72.5° | 830.2   | 832.0   | 853.7   | 893.2   | 963.4   | 1064.3  | 1258.7  | 1737.8  | 3272.1  | 5000.9  | 3066.8  |
| 75°   | 635.7   | 642.9   | 655.5   | 677.1   | 714.9   | 765.4   | 835.7   | 1001.3  | 1240.7  | 1438.8  | 1210.1  |
| 77.5° | 489.8   | 504.2   | 513.2   | 533.0   | 556.4   | 590.6   | 610.4   | 673.5   | 783.4   | 824.8   | 812.2   |
| 80°   | 372.8   | 385.3   | 405.3   | 421.4   | 437.6   | 453.9   | 446.7   | 475.4   | 533.0   | 567.3   | 549.2   |
| 82.5° | 237.7   | 252.2   | 309.8   | 324.2   | 331.4   | 342.2   | 329.5   | 331.4   | 356.5   | 378.1   | 356.5   |
| 85°   | 153.1   | 162.0   | 196.3   | 214.2   | 216.2   | 223.3   | 217.9   | 205.3   | 205.3   | 187.3   | 210.7   |
| 87.5° | 70.3    | 72.0    | 88.3    | 104.5   | 108.0   | 97.2    | 95.5    | 91.9    | 73.9    | 70.3    | 75.6    |
| 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):**

|       | 55°     | 60°     | 65°     | 70°     | 75°     | 80°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4350.8  | 4350.8  | 4350.8  | 4350.8  | 4350.8  | 4350.8  | 4350.8  | 4350.8  |
| 2.5°  | 4349.1  | 4352.7  | 4354.4  | 4359.8  | 4361.6  | 4361.6  | 4363.4  | 4367.0  |
| 5°    | 4383.3  | 4388.6  | 4390.5  | 4397.6  | 4399.5  | 4397.6  | 4401.3  | 4403.0  |
| 7.5°  | 4444.4  | 4453.5  | 4457.1  | 4464.3  | 4458.9  | 4466.1  | 4467.8  | 4467.8  |
| 10°   | 4534.5  | 4543.5  | 4545.3  | 4552.5  | 4548.9  | 4552.5  | 4552.5  | 4548.9  |
| 12.5° | 4653.4  | 4655.2  | 4649.7  | 4655.2  | 4648.0  | 4651.6  | 4646.1  | 4642.5  |
| 15°   | 4784.8  | 4779.4  | 4766.8  | 4766.8  | 4756.0  | 4757.8  | 4756.0  | 4754.2  |
| 17.5° | 4912.8  | 4901.9  | 4892.8  | 4889.3  | 4880.3  | 4878.4  | 4873.1  | 4873.1  |
| 20°   | 5053.1  | 5047.8  | 5042.4  | 5035.1  | 5026.2  | 5017.0  | 5015.3  | 5019.0  |
| 22.5° | 5222.4  | 5220.6  | 5220.6  | 5217.0  | 5204.4  | 5195.4  | 5190.1  | 5190.1  |
| 25°   | 5449.3  | 5433.1  | 5433.1  | 5431.3  | 5426.0  | 5420.6  | 5409.8  | 5415.1  |
| 27.5° | 5705.1  | 5696.0  | 5703.3  | 5701.4  | 5696.0  | 5696.0  | 5688.8  | 5688.8  |
| 30°   | 6020.1  | 6016.6  | 6027.4  | 6018.4  | 6000.4  | 5998.6  | 5991.3  | 5982.4  |
| 32.5° | 6384.0  | 6380.4  | 6396.6  | 6385.7  | 6356.9  | 6340.8  | 6326.3  | 6319.1  |
| 35°   | 6789.2  | 6790.9  | 6810.7  | 6803.6  | 6771.2  | 6760.3  | 6735.2  | 6731.6  |
| 37.5° | 7232.2  | 7261.0  | 7295.2  | 7302.4  | 7275.3  | 7268.2  | 7241.1  | 7226.7  |
| 40°   | 7752.6  | 7790.4  | 7842.6  | 7855.2  | 7826.5  | 7821.0  | 7783.2  | 7763.4  |
| 42.5° | 8307.3  | 8372.1  | 8436.9  | 8447.7  | 8418.9  | 8390.1  | 8354.1  | 8339.6  |
| 45°   | 8926.7  | 9004.2  | 9088.8  | 9110.5  | 9067.2  | 9033.0  | 8986.1  | 8986.1  |
| 47.5° | 9621.9  | 9719.1  | 9814.5  | 9874.0  | 9834.3  | 9798.4  | 9742.5  | 9706.5  |
| 50°   | 10443.0 | 10576.3 | 10700.6 | 10761.8 | 10698.7 | 10630.4 | 10533.1 | 10500.7 |
| 52.5° | 11473.1 | 11617.2 | 11725.2 | 11692.8 | 11595.5 | 11500.2 | 11393.9 | 11350.6 |
| 55°   | 12787.7 | 12836.4 | 12836.4 | 12714.0 | 12519.4 | 12359.2 | 12191.7 | 12135.9 |
| 57.5° | 14431.9 | 14244.5 | 13956.4 | 13590.9 | 13131.7 | 12731.9 | 12461.8 | 12333.9 |
| 60°   | 16364.2 | 15463.8 | 14446.3 | 13446.9 | 12625.7 | 11948.6 | 11546.9 | 11363.3 |
| 62.5° | 17651.8 | 15296.3 | 13257.7 | 11653.3 | 10471.9 | 9656.2  | 9101.4  | 8885.3  |
| 65°   | 16497.5 | 12757.1 | 10027.0 | 8107.4  | 6819.8  | 5989.6  | 5440.3  | 5238.7  |
| 67.5° | 12083.6 | 7994.0  | 5339.5  | 3826.8  | 2803.9  | 2236.6  | 2011.6  | 1917.9  |
| 70°   | 5424.0  | 2814.7  | 1725.2  | 1347.0  | 1161.5  | 1066.1  | 1024.7  | 1010.3  |
| 72.5° | 1635.2  | 1183.2  | 997.6   | 900.4   | 826.5   | 779.8   | 745.5   | 742.0   |
| 75°   | 986.8   | 821.2   | 729.3   | 671.7   | 624.9   | 587.0   | 569.0   | 563.7   |
| 77.5° | 689.8   | 603.3   | 560.1   | 518.7   | 482.6   | 453.9   | 437.6   | 425.0   |
| 80°   | 484.4   | 443.0   | 423.2   | 399.8   | 376.4   | 349.4   | 325.9   | 315.1   |
| 82.5° | 324.2   | 315.1   | 315.1   | 300.8   | 280.9   | 255.6   | 208.9   | 198.1   |
| 85°   | 208.9   | 207.0   | 210.7   | 205.3   | 190.8   | 163.9   | 135.1   | 127.9   |
| 87.5° | 97.2    | 99.1    | 109.8   | 108.0   | 104.5   | 86.5    | 68.4    | 64.8    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)