

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: P192556

Luminaire Tested: **GAN-AF-08-LED-U-5MQ-7030-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192556  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
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-5MQ-7030-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48468.5 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 445  
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

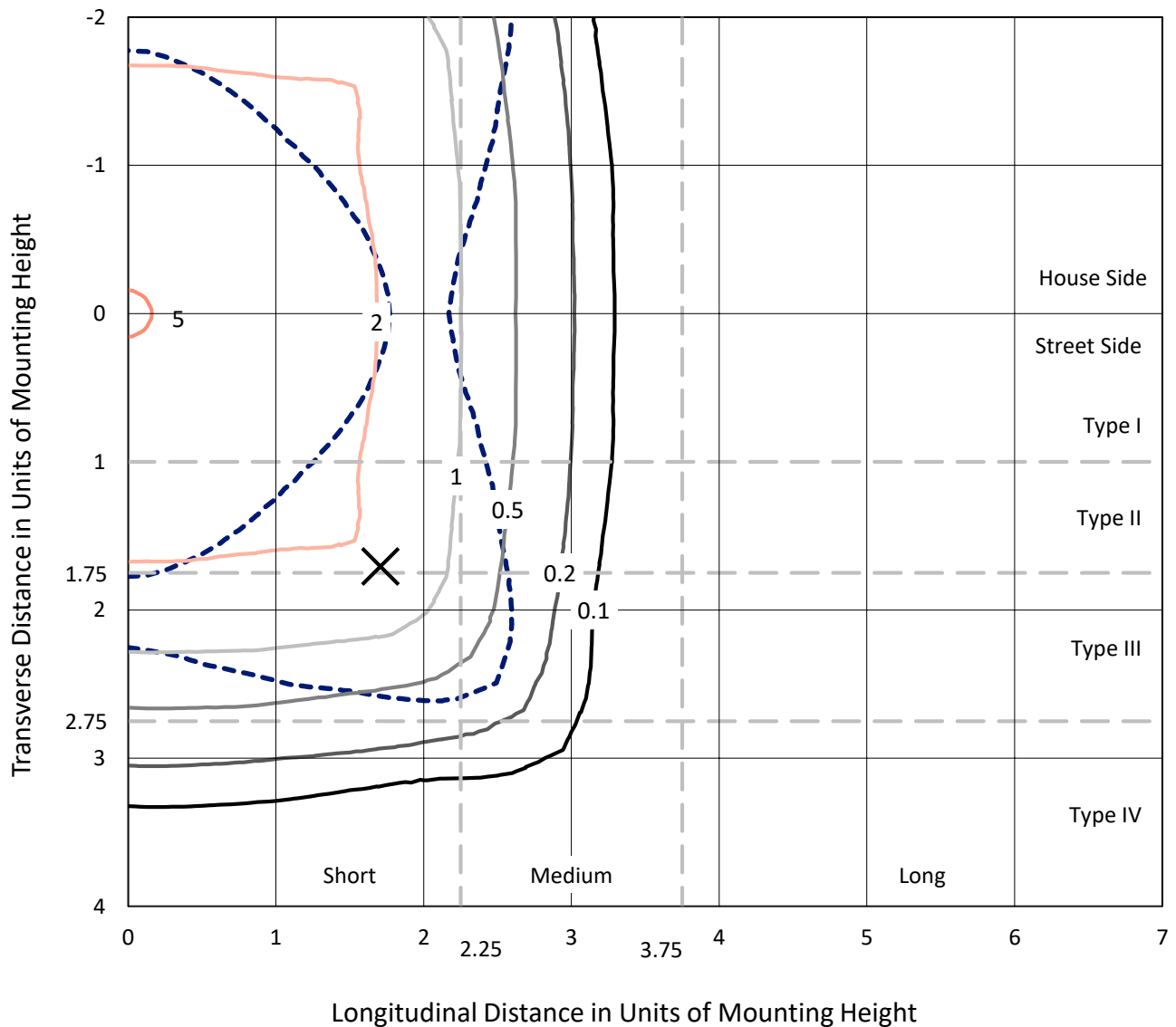


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### Iso-Footcandle Lines of Horizontal Illumination

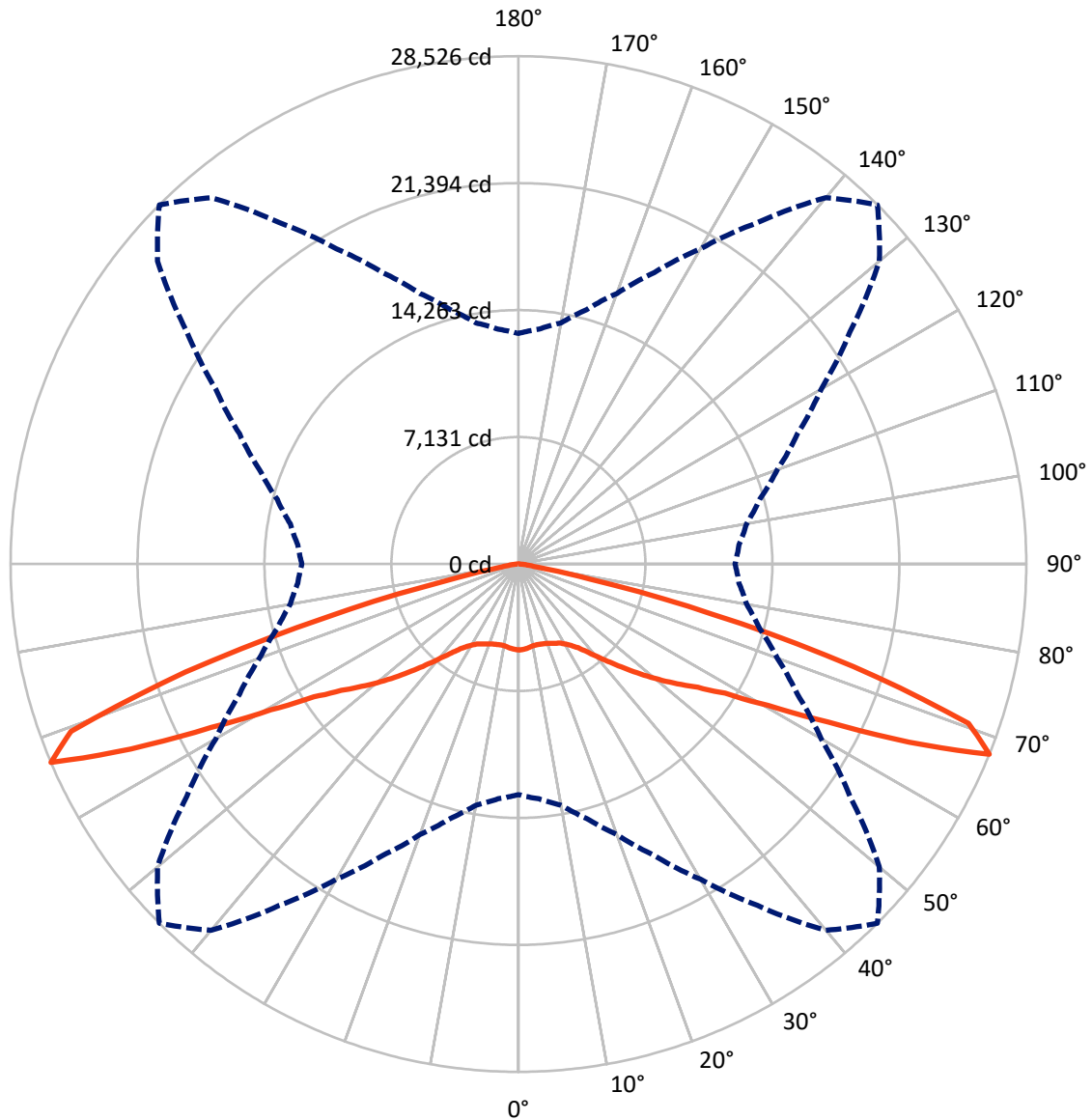
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 24234.2  | 0.0    | 24234.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 24234.2  | 0.0    | 24234.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 48468.5  | 0.0    | 48468.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 452.1   | 0.9       |
| 10°-20°   | 1311.8  | 2.7       |
| 20°-30°   | 2230.1  | 4.6       |
| 30°-40°   | 3645.5  | 7.5       |
| 40°-50°   | 6507.9  | 13.4      |
| 50°-60°   | 10972.5 | 22.6      |
| 60°-70°   | 17027.7 | 35.1      |
| 70°-80°   | 5982.8  | 12.3      |
| 80°-90°   | 338.1   | 0.7       |
| 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°    | 48468.5 | 100.0     |
| 0°-180°   | 48468.5 | 100.0     |



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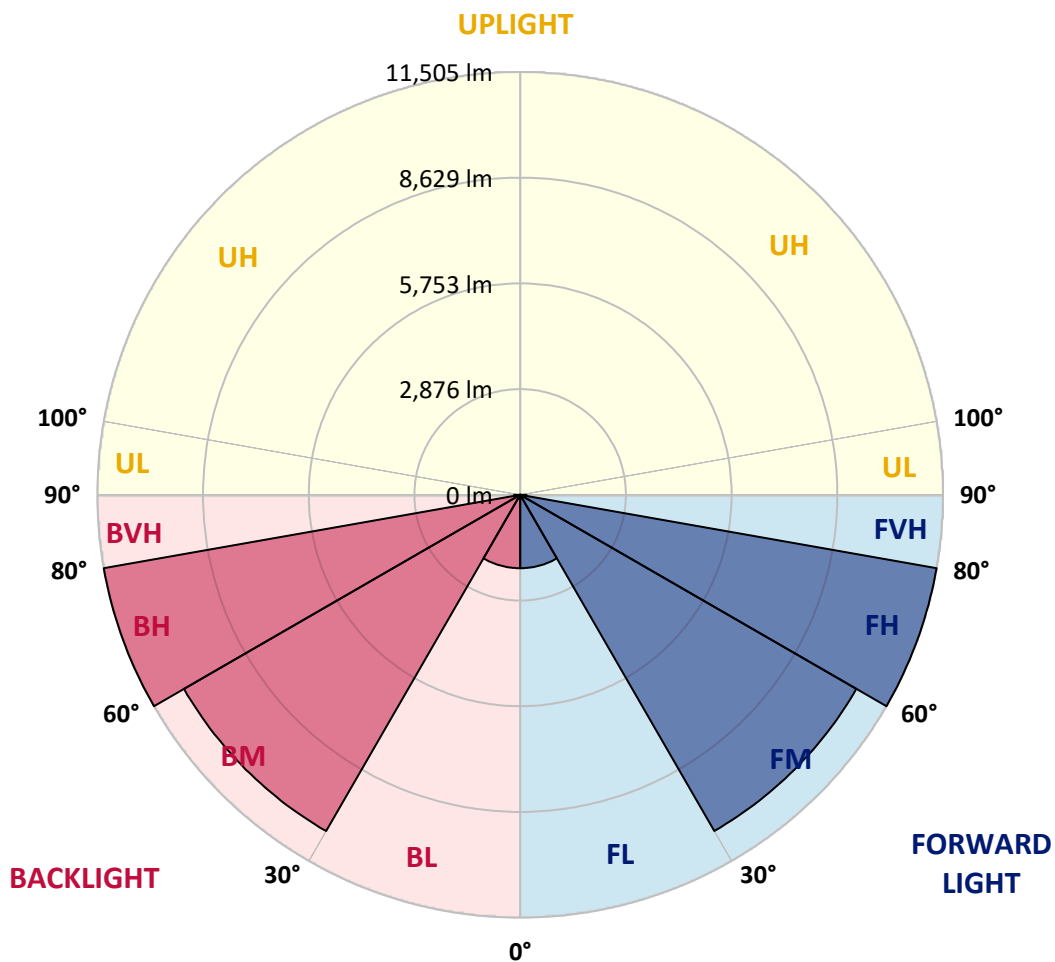
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1997.0  | 4.1       |                         |      |          |
| FM   | (30°-60°)   | 10563.0 | 21.8      |                         |      |          |
| FH   | (60°-80°)   | 11505.2 | 23.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 169.1   | 0.3       |                         |      | G2/225   |
| BL   | (0°-30°)    | 1997.0  | 4.1       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 10563.0 | 21.8      | B5                      |      |          |
| BH   | (60°-80°)   | 11505.2 | 23.7      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 169.1   | 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-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4830.2  | 4830.2  | 4830.2  | 4830.2  | 4830.2  | 4830.2  | 4830.2  | 4830.2  | 4830.2  | 4830.2  | 4830.2  |
| 2.5°  | 4812.3  | 4816.7  | 4816.7  | 4816.7  | 4814.5  | 4814.5  | 4810.0  | 4814.5  | 4812.3  | 4805.6  | 4807.9  |
| 5°    | 4772.1  | 4776.6  | 4776.6  | 4774.4  | 4781.0  | 4778.8  | 4772.1  | 4776.6  | 4774.4  | 4769.9  | 4772.1  |
| 7.5°  | 4714.2  | 4720.9  | 4720.9  | 4718.7  | 4725.4  | 4723.1  | 4718.7  | 4720.9  | 4720.9  | 4714.2  | 4714.2  |
| 10°   | 4649.5  | 4654.0  | 4654.0  | 4651.8  | 4662.9  | 4662.9  | 4660.7  | 4667.3  | 4669.6  | 4662.9  | 4658.5  |
| 12.5° | 4589.3  | 4596.1  | 4596.1  | 4604.9  | 4616.1  | 4620.6  | 4631.7  | 4640.7  | 4649.5  | 4647.4  | 4638.4  |
| 15°   | 4553.7  | 4558.2  | 4567.0  | 4578.2  | 4596.1  | 4611.7  | 4629.6  | 4649.5  | 4667.3  | 4671.8  | 4658.5  |
| 17.5° | 4531.4  | 4538.1  | 4551.5  | 4567.0  | 4591.6  | 4618.4  | 4645.0  | 4671.8  | 4696.4  | 4705.2  | 4689.6  |
| 20°   | 4524.8  | 4529.3  | 4542.6  | 4569.3  | 4602.8  | 4642.9  | 4680.7  | 4712.0  | 4745.3  | 4756.5  | 4745.3  |
| 22.5° | 4538.1  | 4547.1  | 4562.6  | 4593.8  | 4638.4  | 4689.6  | 4734.2  | 4776.6  | 4819.0  | 4839.0  | 4823.4  |
| 25°   | 4598.2  | 4607.3  | 4627.2  | 4667.3  | 4716.4  | 4769.9  | 4821.2  | 4870.2  | 4908.2  | 4928.1  | 4917.0  |
| 27.5° | 4709.7  | 4720.9  | 4745.3  | 4785.5  | 4839.0  | 4897.0  | 4952.7  | 4992.8  | 5024.0  | 5030.8  | 5017.3  |
| 30°   | 4876.9  | 4901.4  | 4930.5  | 4975.0  | 5037.4  | 5086.4  | 5142.2  | 5177.8  | 5215.7  | 5215.7  | 5204.6  |
| 32.5° | 5137.7  | 5162.2  | 5193.4  | 5235.7  | 5284.8  | 5338.3  | 5387.3  | 5418.5  | 5458.7  | 5460.9  | 5434.1  |
| 35°   | 5527.8  | 5538.9  | 5565.6  | 5592.4  | 5637.0  | 5683.7  | 5726.2  | 5746.2  | 5779.6  | 5781.9  | 5757.3  |
| 37.5° | 6042.6  | 6044.9  | 6062.7  | 6071.6  | 6111.8  | 6163.0  | 6203.0  | 6216.6  | 6247.7  | 6243.2  | 6218.7  |
| 40°   | 6642.2  | 6653.4  | 6660.0  | 6673.4  | 6715.7  | 6764.8  | 6807.2  | 6813.9  | 6847.3  | 6840.6  | 6809.4  |
| 42.5° | 7335.4  | 7339.8  | 7377.7  | 7397.8  | 7438.0  | 7462.4  | 7516.0  | 7522.6  | 7562.7  | 7544.9  | 7509.3  |
| 45°   | 8113.3  | 8153.5  | 8189.1  | 8229.2  | 8271.6  | 8300.5  | 8342.9  | 8334.0  | 8360.7  | 8334.0  | 8313.9  |
| 47.5° | 8931.3  | 8960.3  | 9040.5  | 9102.9  | 9172.1  | 9196.6  | 9256.8  | 9230.0  | 9256.8  | 9218.9  | 9212.2  |
| 50°   | 9831.8  | 9883.0  | 9952.2  | 10023.5 | 10097.0 | 10137.2 | 10215.2 | 10181.8 | 10217.4 | 10181.8 | 10161.6 |
| 52.5° | 10718.9 | 10732.3 | 10883.9 | 10988.6 | 11091.1 | 11138.0 | 11184.8 | 11169.1 | 11171.4 | 11169.1 | 11149.2 |
| 55°   | 11561.5 | 11592.6 | 11744.3 | 11886.9 | 12065.2 | 12196.7 | 12276.9 | 12268.0 | 12248.0 | 12227.9 | 12194.4 |
| 57.5° | 12510.9 | 12542.2 | 12716.0 | 12892.1 | 13094.9 | 13282.2 | 13444.9 | 13612.1 | 13676.7 | 13694.5 | 13621.1 |
| 60°   | 13794.8 | 13792.7 | 14024.4 | 14238.4 | 14528.2 | 14806.9 | 15163.4 | 15526.8 | 15943.5 | 16137.5 | 15881.2 |
| 62.5° | 15101.0 | 15154.5 | 15488.8 | 15867.7 | 16465.2 | 17046.8 | 17704.4 | 18350.7 | 19010.6 | 19547.7 | 18977.1 |
| 65°   | 14944.9 | 15150.0 | 15647.1 | 16505.2 | 17608.5 | 18919.2 | 20336.8 | 21836.8 | 23192.0 | 24123.7 | 23078.3 |
| 67.5° | 12952.3 | 13244.3 | 13750.3 | 14793.3 | 16173.1 | 18063.3 | 20443.7 | 23410.4 | 26858.5 | 28525.9 | 26459.7 |
| 70°   | 9388.2  | 9718.2  | 10248.6 | 11267.3 | 12633.5 | 14430.1 | 17015.6 | 20577.5 | 25142.3 | 26822.9 | 24547.2 |
| 72.5° | 4671.8  | 4850.1  | 5177.8  | 5826.5  | 6860.6  | 8318.4  | 10663.1 | 14086.8 | 18125.7 | 19668.1 | 17588.4 |
| 75°   | 1587.0  | 1669.5  | 1725.2  | 1936.9  | 2264.6  | 2837.5  | 4003.2  | 6158.5  | 9394.9  | 11262.8 | 9261.3  |
| 77.5° | 916.1   | 918.4   | 956.2   | 994.1   | 1049.9  | 1112.3  | 1268.3  | 1665.0  | 2879.7  | 4090.1  | 2980.0  |
| 80°   | 592.8   | 590.6   | 621.9   | 650.8   | 688.8   | 719.9   | 728.9   | 771.3   | 889.4   | 1054.3  | 942.8   |
| 82.5° | 307.6   | 345.5   | 414.5   | 452.5   | 523.8   | 537.1   | 519.3   | 503.6   | 532.7   | 552.8   | 566.2   |
| 85°   | 169.4   | 147.1   | 220.7   | 285.2   | 316.6   | 321.0   | 321.0   | 303.0   | 314.2   | 307.6   | 334.4   |
| 87.5° | 78.0    | 71.3    | 87.0    | 140.4   | 149.3   | 127.1   | 133.8   | 118.1   | 84.6    | 82.5    | 93.6    |
| 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°    | 4830.2  | 4830.2  | 4830.2  | 4830.2  | 4830.2  | 4830.2  | 4830.2  | 4830.2  |
| 2.5°  | 4807.9  | 4810.0  | 4810.0  | 4816.7  | 4819.0  | 4823.4  | 4827.8  | 4830.2  |
| 5°    | 4769.9  | 4776.6  | 4772.1  | 4778.8  | 4778.8  | 4783.3  | 4783.3  | 4785.5  |
| 7.5°  | 4714.2  | 4720.9  | 4720.9  | 4720.9  | 4718.7  | 4725.4  | 4725.4  | 4725.4  |
| 10°   | 4656.2  | 4660.7  | 4658.5  | 4654.0  | 4649.5  | 4656.2  | 4654.0  | 4651.8  |
| 12.5° | 4638.4  | 4627.2  | 4618.4  | 4613.9  | 4604.9  | 4607.3  | 4600.5  | 4600.5  |
| 15°   | 4649.5  | 4629.6  | 4613.9  | 4607.3  | 4598.2  | 4593.8  | 4589.3  | 4591.6  |
| 17.5° | 4678.5  | 4654.0  | 4633.9  | 4622.8  | 4611.7  | 4604.9  | 4596.1  | 4598.2  |
| 20°   | 4729.9  | 4700.8  | 4671.8  | 4649.5  | 4629.6  | 4618.4  | 4611.7  | 4609.4  |
| 22.5° | 4805.6  | 4763.2  | 4720.9  | 4687.4  | 4660.7  | 4645.0  | 4638.4  | 4633.9  |
| 25°   | 4892.5  | 4845.6  | 4796.7  | 4758.8  | 4732.0  | 4712.0  | 4698.5  | 4698.5  |
| 27.5° | 5001.7  | 4963.8  | 4919.3  | 4874.7  | 4850.1  | 4830.2  | 4821.2  | 4816.7  |
| 30°   | 5184.5  | 5148.9  | 5113.2  | 5070.8  | 5039.6  | 5019.6  | 5004.0  | 4990.5  |
| 32.5° | 5418.5  | 5389.5  | 5360.6  | 5329.3  | 5300.3  | 5273.6  | 5249.2  | 5238.0  |
| 35°   | 5748.4  | 5726.2  | 5706.1  | 5670.4  | 5659.3  | 5643.7  | 5630.2  | 5619.1  |
| 37.5° | 6203.0  | 6194.2  | 6194.2  | 6156.3  | 6147.4  | 6140.7  | 6127.4  | 6129.6  |
| 40°   | 6800.6  | 6809.4  | 6798.2  | 6784.9  | 6778.2  | 6760.3  | 6760.3  | 6775.9  |
| 42.5° | 7506.9  | 7513.8  | 7538.3  | 7516.0  | 7540.4  | 7518.1  | 7504.8  | 7516.0  |
| 45°   | 8327.3  | 8351.8  | 8400.8  | 8378.5  | 8394.2  | 8356.2  | 8309.5  | 8311.7  |
| 47.5° | 9247.8  | 9270.1  | 9290.2  | 9274.6  | 9276.7  | 9214.4  | 9152.0  | 9136.4  |
| 50°   | 10204.0 | 10213.0 | 10224.2 | 10201.9 | 10206.2 | 10137.2 | 10065.8 | 10068.0 |
| 52.5° | 11149.2 | 11191.4 | 11236.0 | 11175.8 | 11162.5 | 11084.5 | 10984.2 | 10944.1 |
| 55°   | 12230.2 | 12290.3 | 12239.0 | 12134.4 | 12029.6 | 11924.8 | 11793.2 | 11770.9 |
| 57.5° | 13563.0 | 13460.5 | 13300.0 | 13101.6 | 12956.7 | 12809.7 | 12675.9 | 12620.2 |
| 60°   | 15417.5 | 15031.9 | 14742.2 | 14447.9 | 14262.9 | 14082.4 | 13906.3 | 13879.5 |
| 62.5° | 18038.7 | 17372.3 | 16795.0 | 16186.5 | 15689.4 | 15301.6 | 14991.8 | 14904.8 |
| 65°   | 21324.1 | 19748.3 | 18382.0 | 17107.0 | 15999.3 | 15163.4 | 14637.4 | 14405.7 |
| 67.5° | 22737.3 | 19625.7 | 17283.0 | 15473.2 | 14024.4 | 13012.4 | 12444.1 | 12161.0 |
| 70°   | 19980.1 | 16275.7 | 13728.0 | 11915.9 | 10596.3 | 9517.6  | 9002.6  | 8699.6  |
| 72.5° | 13745.8 | 10353.4 | 8186.9  | 6682.3  | 5628.1  | 4725.4  | 4368.7  | 4342.0  |
| 75°   | 6171.9  | 4087.8  | 2817.4  | 2171.0  | 1827.7  | 1589.1  | 1515.7  | 1459.9  |
| 77.5° | 1727.4  | 1277.1  | 1139.0  | 1065.4  | 994.1   | 911.7   | 880.4   | 887.0   |
| 80°   | 840.3   | 793.6   | 762.3   | 715.5   | 650.8   | 581.7   | 550.5   | 563.9   |
| 82.5° | 557.2   | 550.5   | 570.6   | 537.1   | 443.6   | 376.7   | 316.6   | 289.7   |
| 85°   | 338.8   | 343.3   | 349.9   | 352.2   | 298.8   | 209.6   | 142.7   | 160.5   |
| 87.5° | 133.8   | 153.8   | 167.1   | 173.8   | 162.7   | 100.3   | 80.2    | 82.5    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)