

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: P267284

Luminaire Tested: **GAN-AF-10-LED-U-5MQ-7027-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P267284  
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-10-LED-U-5MQ-7027-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 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: 53773.4 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G5

Input Watts (W): 558  
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

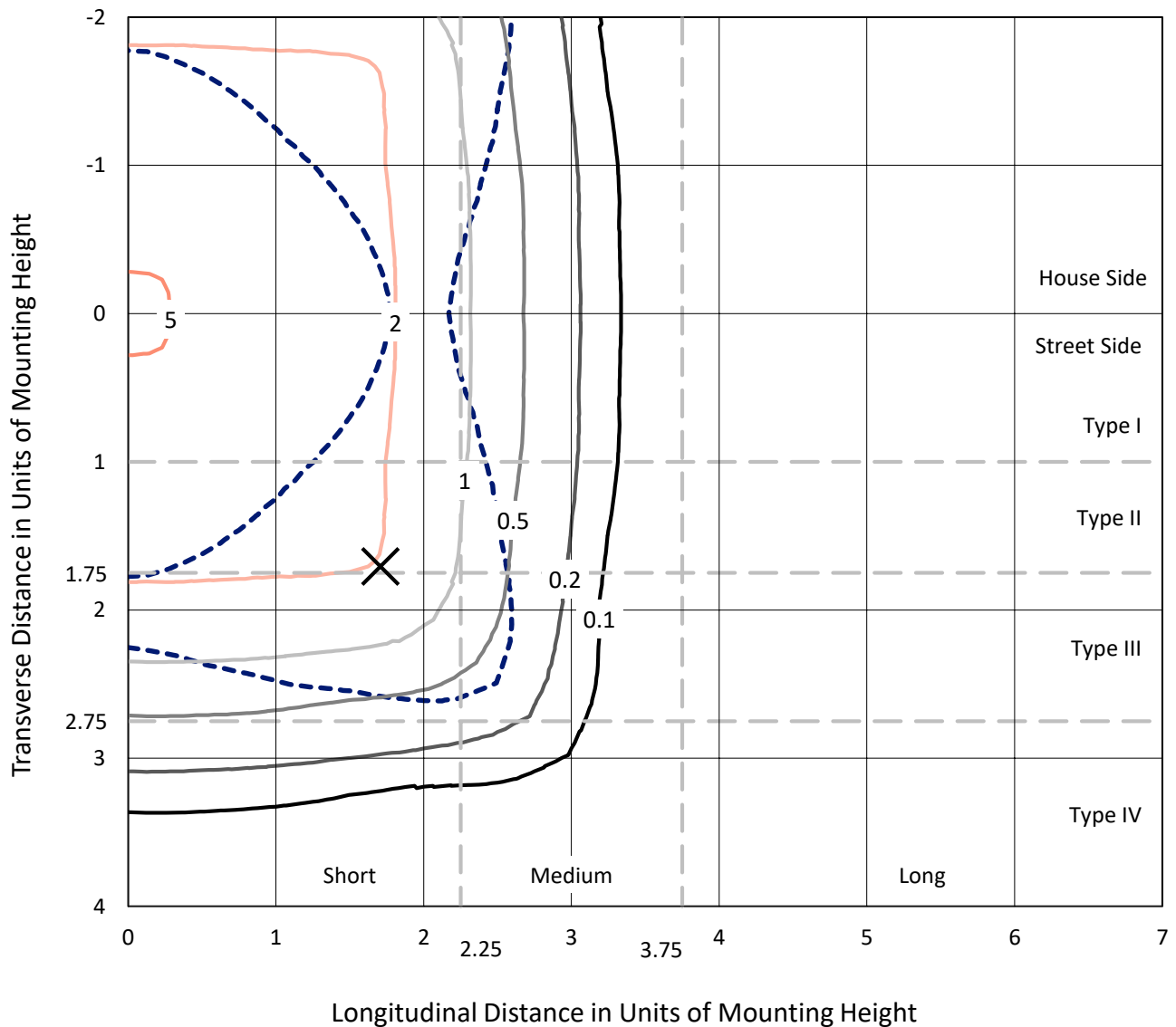


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

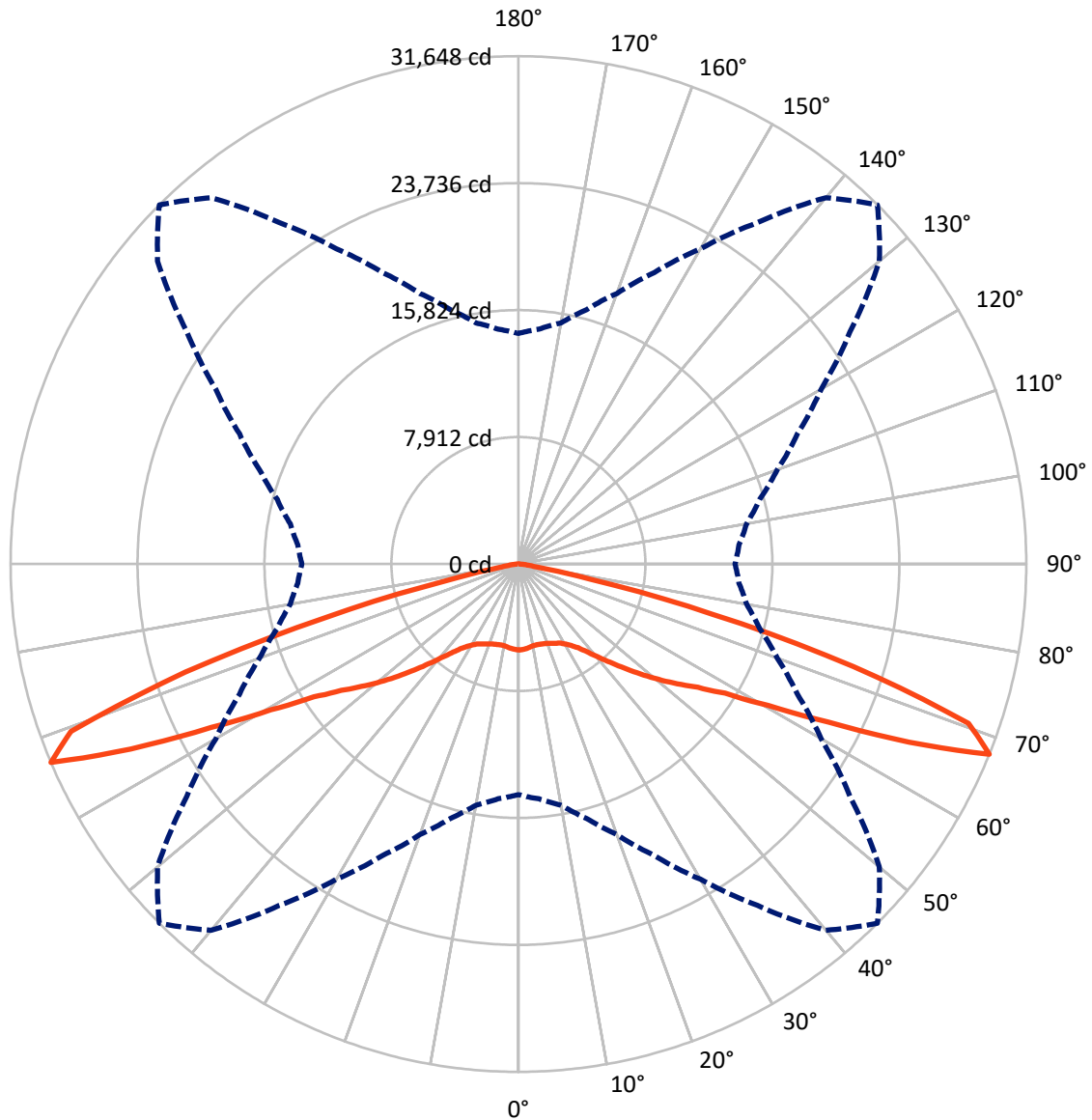


Based on 30 foot mounting height. Maximum calculated value = 6 fc  
 Type V - Short - Full Cutoff

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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    | 26886.7  | 0.0    | 26886.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 26886.7  | 0.0    | 26886.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 53773.4  | 0.0    | 53773.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 501.6   | 0.9       |
| 10°-20°   | 1455.4  | 2.7       |
| 20°-30°   | 2474.2  | 4.6       |
| 30°-40°   | 4044.5  | 7.5       |
| 40°-50°   | 7220.2  | 13.4      |
| 50°-60°   | 12173.4 | 22.6      |
| 60°-70°   | 18891.4 | 35.1      |
| 70°-80°   | 6637.6  | 12.3      |
| 80°-90°   | 375.1   | 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°    | 53773.4 | 100.0     |
| 0°-180°   | 53773.4 | 100.0     |



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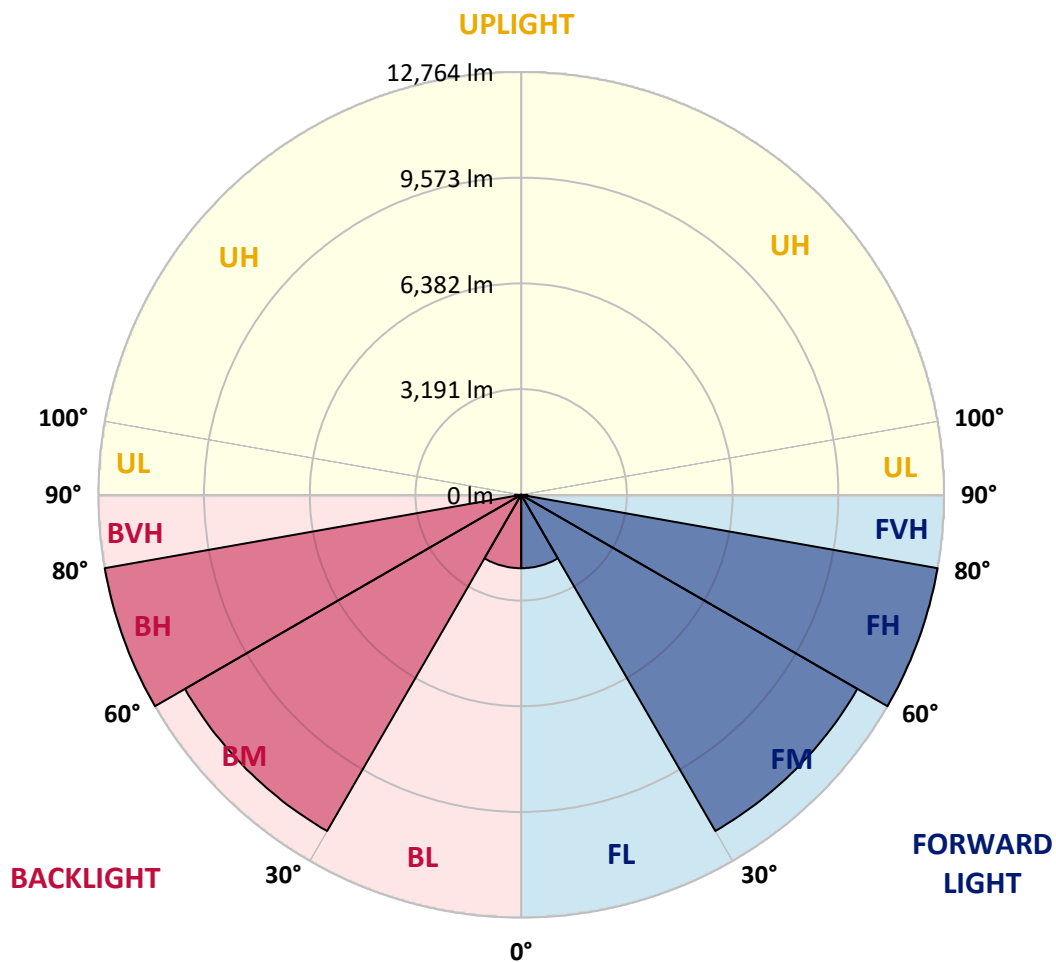
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 2215.6  | 4.1       |                         |      |        |
| FM   | (30°-60°)   | 11719.1 | 21.8      |                         |      |        |
| FH   | (60°-80°)   | 12764.5 | 23.7      |                         |      | G5     |
| FVH  | (80°-90°)   | 187.6   | 0.3       |                         |      | G2/225 |
| BL   | (0°-30°)    | 2215.6  | 4.1       | B3/2500                 |      |        |
| BM   | (30°-60°)   | 11719.1 | 21.8      | B5                      |      |        |
| BH   | (60°-80°)   | 12764.5 | 23.7      | B5                      |      | G5     |
| BVH  | (80°-90°)   | 187.6   | 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-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5358.7  | 5358.7  | 5358.7  | 5358.7  | 5358.7  | 5358.7  | 5358.7  | 5358.7  | 5358.7  | 5358.7  | 5358.7  |
| 2.5°  | 5338.9  | 5343.8  | 5343.8  | 5343.8  | 5341.4  | 5341.4  | 5336.6  | 5341.4  | 5338.9  | 5331.5  | 5334.0  |
| 5°    | 5294.4  | 5299.5  | 5299.5  | 5296.9  | 5304.3  | 5301.8  | 5294.4  | 5299.5  | 5296.9  | 5291.9  | 5294.4  |
| 7.5°  | 5230.1  | 5237.6  | 5237.6  | 5235.1  | 5242.5  | 5240.1  | 5235.1  | 5237.6  | 5237.6  | 5230.1  | 5230.1  |
| 10°   | 5158.4  | 5163.4  | 5163.4  | 5160.9  | 5173.2  | 5173.2  | 5170.9  | 5178.2  | 5180.6  | 5173.2  | 5168.4  |
| 12.5° | 5091.7  | 5099.0  | 5099.0  | 5109.0  | 5121.3  | 5126.3  | 5138.7  | 5148.5  | 5158.4  | 5156.0  | 5146.1  |
| 15°   | 5052.1  | 5057.1  | 5066.9  | 5079.2  | 5099.0  | 5116.3  | 5136.1  | 5158.4  | 5178.2  | 5183.2  | 5168.4  |
| 17.5° | 5027.4  | 5034.8  | 5049.6  | 5066.9  | 5094.2  | 5123.8  | 5153.4  | 5183.2  | 5210.3  | 5220.3  | 5203.0  |
| 20°   | 5020.0  | 5024.8  | 5039.8  | 5069.4  | 5106.5  | 5151.1  | 5193.0  | 5227.6  | 5264.7  | 5277.2  | 5264.7  |
| 22.5° | 5034.8  | 5044.7  | 5061.9  | 5096.7  | 5146.1  | 5203.0  | 5252.4  | 5299.5  | 5346.4  | 5368.6  | 5351.4  |
| 25°   | 5101.6  | 5111.4  | 5133.8  | 5178.2  | 5232.6  | 5291.9  | 5348.9  | 5403.2  | 5445.3  | 5467.5  | 5455.1  |
| 27.5° | 5225.3  | 5237.6  | 5264.7  | 5309.3  | 5368.6  | 5432.9  | 5494.8  | 5539.3  | 5574.0  | 5581.3  | 5566.4  |
| 30°   | 5410.8  | 5437.9  | 5470.0  | 5519.5  | 5588.7  | 5643.2  | 5705.0  | 5744.5  | 5786.5  | 5786.5  | 5774.1  |
| 32.5° | 5700.0  | 5727.2  | 5761.8  | 5808.8  | 5863.1  | 5922.5  | 5977.0  | 6011.5  | 6056.2  | 6058.6  | 6029.0  |
| 35°   | 6132.8  | 6145.1  | 6174.8  | 6204.5  | 6253.9  | 6305.8  | 6352.9  | 6375.1  | 6412.2  | 6414.6  | 6387.5  |
| 37.5° | 6704.1  | 6706.4  | 6726.2  | 6736.1  | 6780.6  | 6837.4  | 6882.1  | 6896.8  | 6931.5  | 6926.6  | 6899.3  |
| 40°   | 7369.2  | 7381.6  | 7389.0  | 7403.8  | 7450.8  | 7505.2  | 7552.2  | 7559.6  | 7596.6  | 7589.3  | 7554.7  |
| 42.5° | 8138.3  | 8143.2  | 8185.3  | 8207.5  | 8252.0  | 8279.1  | 8338.5  | 8346.1  | 8390.4  | 8370.8  | 8331.2  |
| 45°   | 9001.2  | 9045.8  | 9085.4  | 9130.0  | 9176.8  | 9209.1  | 9256.0  | 9246.2  | 9275.8  | 9246.2  | 9223.8  |
| 47.5° | 9908.8  | 9941.1  | 10030.0 | 10099.3 | 10175.9 | 10203.0 | 10270.0 | 10240.1 | 10270.0 | 10227.8 | 10220.5 |
| 50°   | 10907.8 | 10964.8 | 11041.4 | 11120.6 | 11202.1 | 11246.7 | 11333.2 | 11296.1 | 11335.7 | 11296.1 | 11273.9 |
| 52.5° | 11892.1 | 11906.9 | 12075.0 | 12191.3 | 12305.2 | 12357.1 | 12408.9 | 12391.6 | 12394.2 | 12391.6 | 12369.4 |
| 55°   | 12826.9 | 12861.6 | 13029.6 | 13187.8 | 13385.7 | 13531.7 | 13620.7 | 13610.8 | 13588.5 | 13566.3 | 13529.2 |
| 57.5° | 13880.3 | 13914.9 | 14107.8 | 14303.3 | 14528.2 | 14735.9 | 14916.4 | 15101.9 | 15173.6 | 15193.5 | 15111.7 |
| 60°   | 15304.8 | 15302.2 | 15559.5 | 15796.9 | 16118.3 | 16427.3 | 16823.1 | 17226.2 | 17688.5 | 17903.7 | 17619.4 |
| 62.5° | 16753.7 | 16813.1 | 17184.0 | 17604.4 | 18267.3 | 18912.6 | 19642.2 | 20359.2 | 21091.2 | 21687.2 | 21054.1 |
| 65°   | 16580.7 | 16808.2 | 17359.7 | 18311.7 | 19535.8 | 20989.8 | 22562.5 | 24226.8 | 25730.4 | 26764.0 | 25604.3 |
| 67.5° | 14369.9 | 14693.8 | 15255.2 | 16412.6 | 17943.3 | 20040.3 | 22681.3 | 25972.8 | 29798.2 | 31647.9 | 29355.6 |
| 70°   | 10415.8 | 10781.7 | 11370.3 | 12500.5 | 14016.3 | 16009.5 | 18878.1 | 22829.6 | 27894.2 | 29758.7 | 27233.9 |
| 72.5° | 5183.2  | 5380.9  | 5744.5  | 6464.2  | 7611.6  | 9228.7  | 11830.3 | 15628.6 | 20109.5 | 21820.8 | 19513.5 |
| 75°   | 1760.7  | 1852.1  | 1914.0  | 2148.9  | 2512.5  | 3148.0  | 4441.3  | 6832.6  | 10423.3 | 12495.6 | 10274.9 |
| 77.5° | 1016.3  | 1018.9  | 1060.9  | 1102.8  | 1164.7  | 1234.0  | 1407.0  | 1847.3  | 3195.0  | 4537.8  | 3306.2  |
| 80°   | 657.7   | 655.4   | 690.0   | 722.1   | 764.1   | 798.8   | 808.7   | 855.6   | 986.7   | 1169.7  | 1046.0  |
| 82.5° | 341.3   | 383.2   | 459.9   | 502.1   | 581.2   | 595.9   | 576.3   | 558.8   | 591.1   | 613.3   | 628.2   |
| 85°   | 187.9   | 163.2   | 244.8   | 316.6   | 351.1   | 356.1   | 356.1   | 336.3   | 348.7   | 341.3   | 370.9   |
| 87.5° | 86.5    | 79.1    | 96.5    | 155.8   | 165.6   | 140.9   | 148.4   | 131.1   | 94.0    | 91.4    | 103.8   |
| 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°    | 5358.7  | 5358.7  | 5358.7  | 5358.7  | 5358.7  | 5358.7  | 5358.7  | 5358.7  |
| 2.5°  | 5334.0  | 5336.6  | 5336.6  | 5343.8  | 5346.4  | 5351.4  | 5356.2  | 5358.7  |
| 5°    | 5291.9  | 5299.5  | 5294.4  | 5301.8  | 5301.8  | 5306.7  | 5306.7  | 5309.3  |
| 7.5°  | 5230.1  | 5237.6  | 5237.6  | 5237.6  | 5235.1  | 5242.5  | 5242.5  | 5242.5  |
| 10°   | 5165.9  | 5170.9  | 5168.4  | 5163.4  | 5158.4  | 5165.9  | 5163.4  | 5160.9  |
| 12.5° | 5146.1  | 5133.8  | 5123.8  | 5118.9  | 5109.0  | 5111.4  | 5104.0  | 5104.0  |
| 15°   | 5158.4  | 5136.1  | 5118.9  | 5111.4  | 5101.6  | 5096.7  | 5091.7  | 5094.2  |
| 17.5° | 5190.5  | 5163.4  | 5141.1  | 5128.8  | 5116.3  | 5109.0  | 5099.0  | 5101.6  |
| 20°   | 5247.4  | 5215.3  | 5183.2  | 5158.4  | 5136.1  | 5123.8  | 5116.3  | 5114.0  |
| 22.5° | 5331.5  | 5284.5  | 5237.6  | 5200.5  | 5170.9  | 5153.4  | 5146.1  | 5141.1  |
| 25°   | 5428.0  | 5376.0  | 5321.6  | 5279.6  | 5250.0  | 5227.6  | 5212.9  | 5212.9  |
| 27.5° | 5549.2  | 5507.1  | 5457.7  | 5408.2  | 5380.9  | 5358.7  | 5348.9  | 5343.8  |
| 30°   | 5751.9  | 5712.4  | 5672.7  | 5625.8  | 5591.2  | 5569.0  | 5551.6  | 5536.9  |
| 32.5° | 6011.5  | 5979.5  | 5947.3  | 5912.6  | 5880.6  | 5850.8  | 5823.6  | 5811.2  |
| 35°   | 6377.5  | 6352.9  | 6330.5  | 6291.0  | 6278.7  | 6261.4  | 6246.5  | 6234.1  |
| 37.5° | 6882.1  | 6872.2  | 6872.2  | 6830.2  | 6820.2  | 6812.7  | 6798.0  | 6800.4  |
| 40°   | 7544.8  | 7554.7  | 7542.3  | 7527.4  | 7520.0  | 7500.3  | 7500.3  | 7517.6  |
| 42.5° | 8328.6  | 8336.1  | 8363.3  | 8338.5  | 8365.7  | 8341.0  | 8326.2  | 8338.5  |
| 45°   | 9238.7  | 9265.8  | 9320.4  | 9295.7  | 9312.9  | 9270.9  | 9218.9  | 9221.5  |
| 47.5° | 10260.0 | 10284.8 | 10307.1 | 10289.6 | 10292.2 | 10222.9 | 10153.7 | 10136.4 |
| 50°   | 11320.9 | 11330.9 | 11343.2 | 11318.5 | 11323.3 | 11246.7 | 11167.5 | 11170.1 |
| 52.5° | 12369.4 | 12416.4 | 12465.8 | 12399.0 | 12384.3 | 12297.6 | 12186.3 | 12141.9 |
| 55°   | 13568.7 | 13635.6 | 13578.6 | 13462.4 | 13346.2 | 13230.0 | 13084.1 | 13059.3 |
| 57.5° | 15047.5 | 14933.8 | 14755.6 | 14535.7 | 14374.9 | 14211.6 | 14063.3 | 14001.5 |
| 60°   | 17104.9 | 16677.2 | 16355.7 | 16029.3 | 15824.1 | 15623.7 | 15428.3 | 15398.7 |
| 62.5° | 20013.1 | 19273.7 | 18633.3 | 17958.0 | 17406.6 | 16976.3 | 16632.7 | 16536.2 |
| 65°   | 23658.1 | 21909.8 | 20394.0 | 18979.4 | 17750.4 | 16823.1 | 16239.5 | 15982.3 |
| 67.5° | 25225.9 | 21773.7 | 19174.9 | 17166.8 | 15559.5 | 14436.8 | 13806.1 | 13492.1 |
| 70°   | 22166.9 | 18057.0 | 15230.6 | 13220.0 | 11756.1 | 10559.2 | 9988.0  | 9651.7  |
| 72.5° | 15250.3 | 11486.5 | 9082.9  | 7413.7  | 6244.1  | 5242.5  | 4846.9  | 4817.3  |
| 75°   | 6847.4  | 4535.3  | 3125.7  | 2408.5  | 2027.7  | 1763.2  | 1681.5  | 1619.7  |
| 77.5° | 1916.4  | 1416.9  | 1263.6  | 1182.0  | 1102.8  | 1011.4  | 976.7   | 984.3   |
| 80°   | 932.4   | 880.3   | 845.8   | 793.8   | 722.1   | 645.4   | 610.8   | 625.6   |
| 82.5° | 618.3   | 610.8   | 633.0   | 595.9   | 492.1   | 417.9   | 351.1   | 321.5   |
| 85°   | 375.9   | 380.8   | 388.2   | 390.8   | 331.4   | 232.4   | 158.3   | 178.0   |
| 87.5° | 148.4   | 170.6   | 185.5   | 192.9   | 180.5   | 111.3   | 89.0    | 91.4    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)