

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: P268724

Luminaire Tested: **GAN-AF-08-LED-U-5MQ-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268724  
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-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47762.8 lumens  
Efficiency: N/A  
Efficacy: 93.5 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): 511  
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

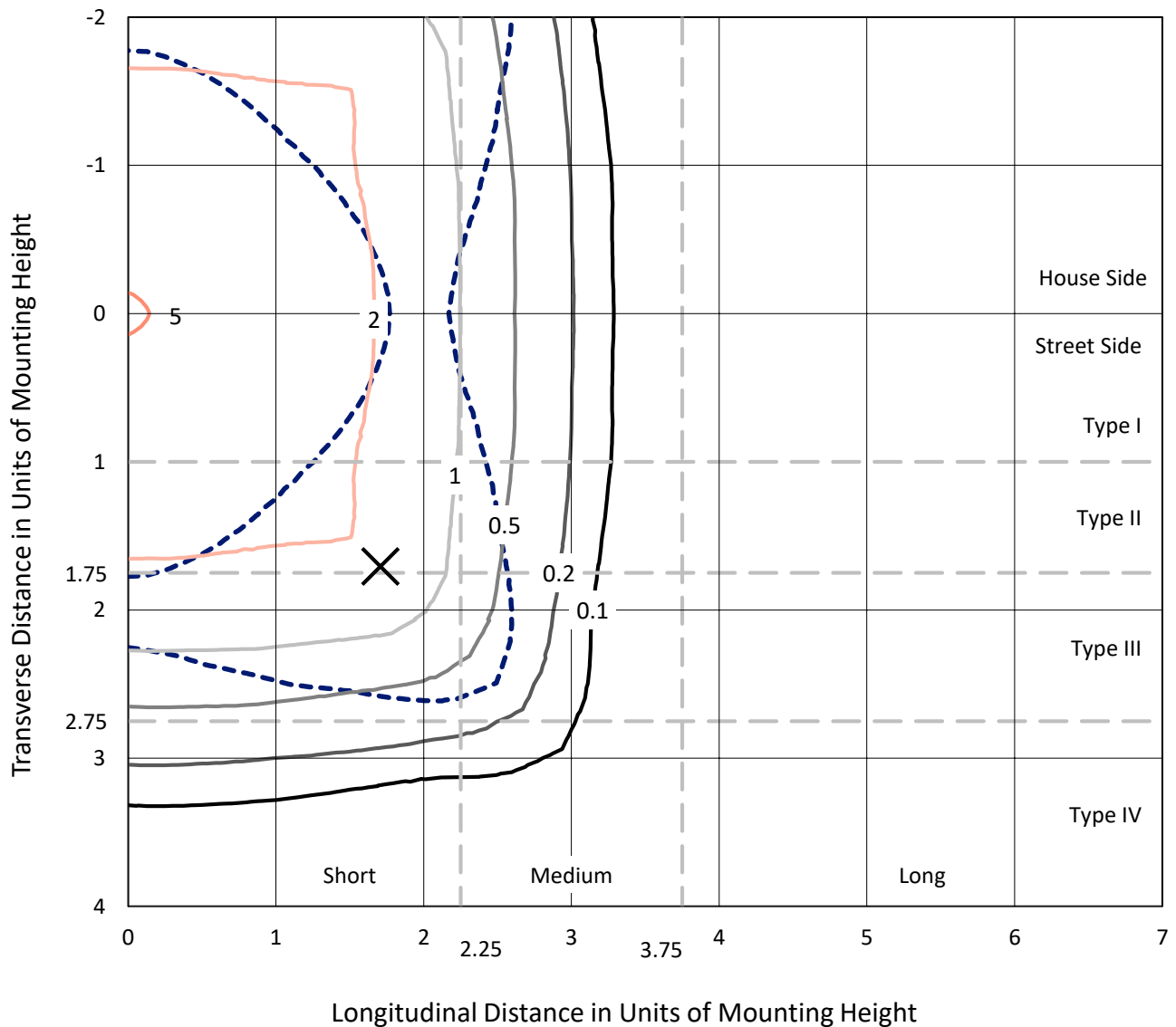


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

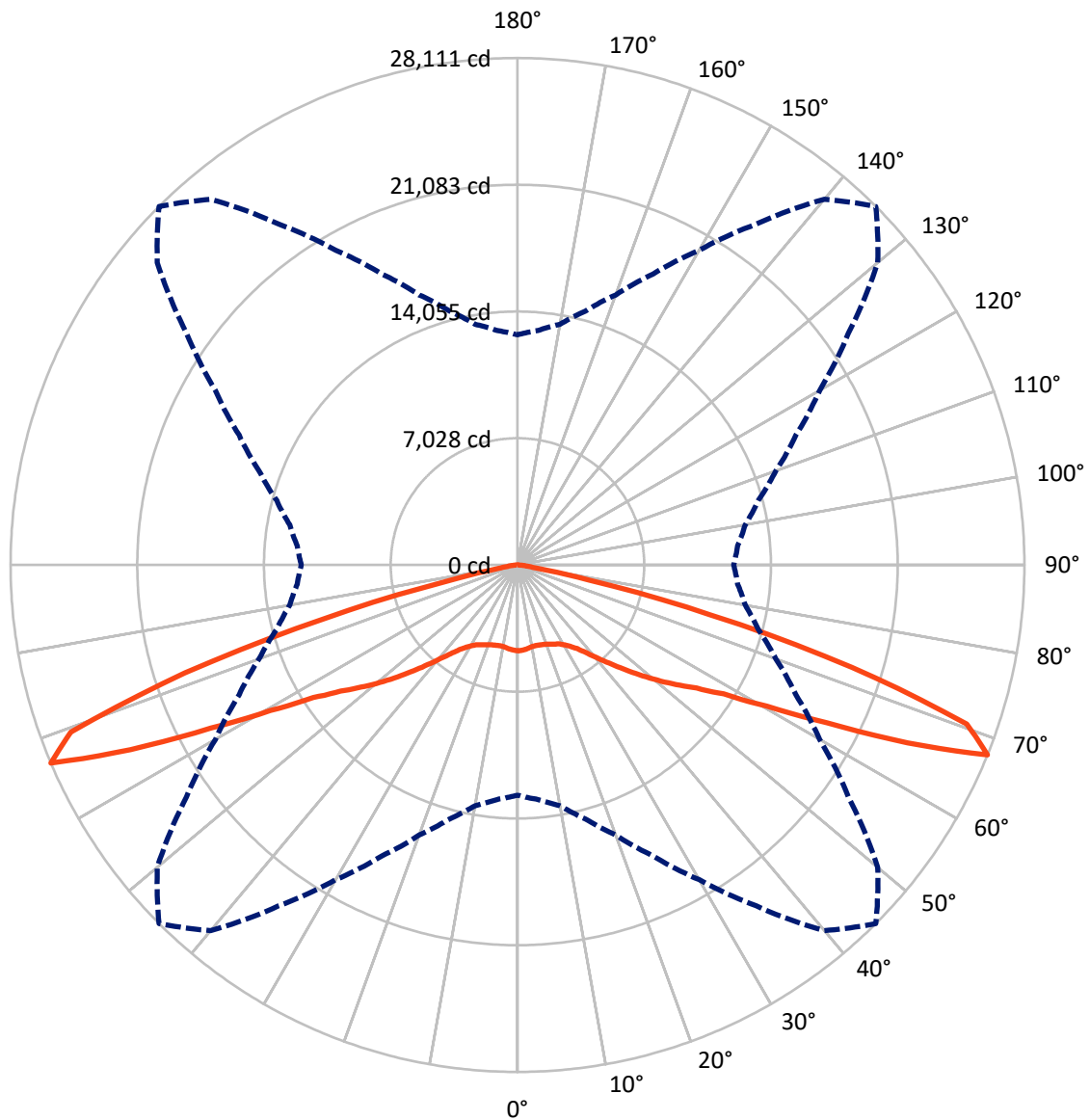


Based on 30 foot mounting height. Maximum calculated value = 5.3 fc  
 Type V - Short - Full Cutoff

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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    | 23881.4  | 0.0    | 23881.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 23881.4  | 0.0    | 23881.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 47762.8  | 0.0    | 47762.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 445.5   | 0.9       |
| 10°-20°   | 1292.7  | 2.7       |
| 20°-30°   | 2197.6  | 4.6       |
| 30°-40°   | 3592.4  | 7.5       |
| 40°-50°   | 6413.2  | 13.4      |
| 50°-60°   | 10812.8 | 22.6      |
| 60°-70°   | 16779.8 | 35.1      |
| 70°-80°   | 5895.7  | 12.3      |
| 80°-90°   | 333.2   | 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°    | 47762.8 | 100.0     |
| 0°-180°   | 47762.8 | 100.0     |



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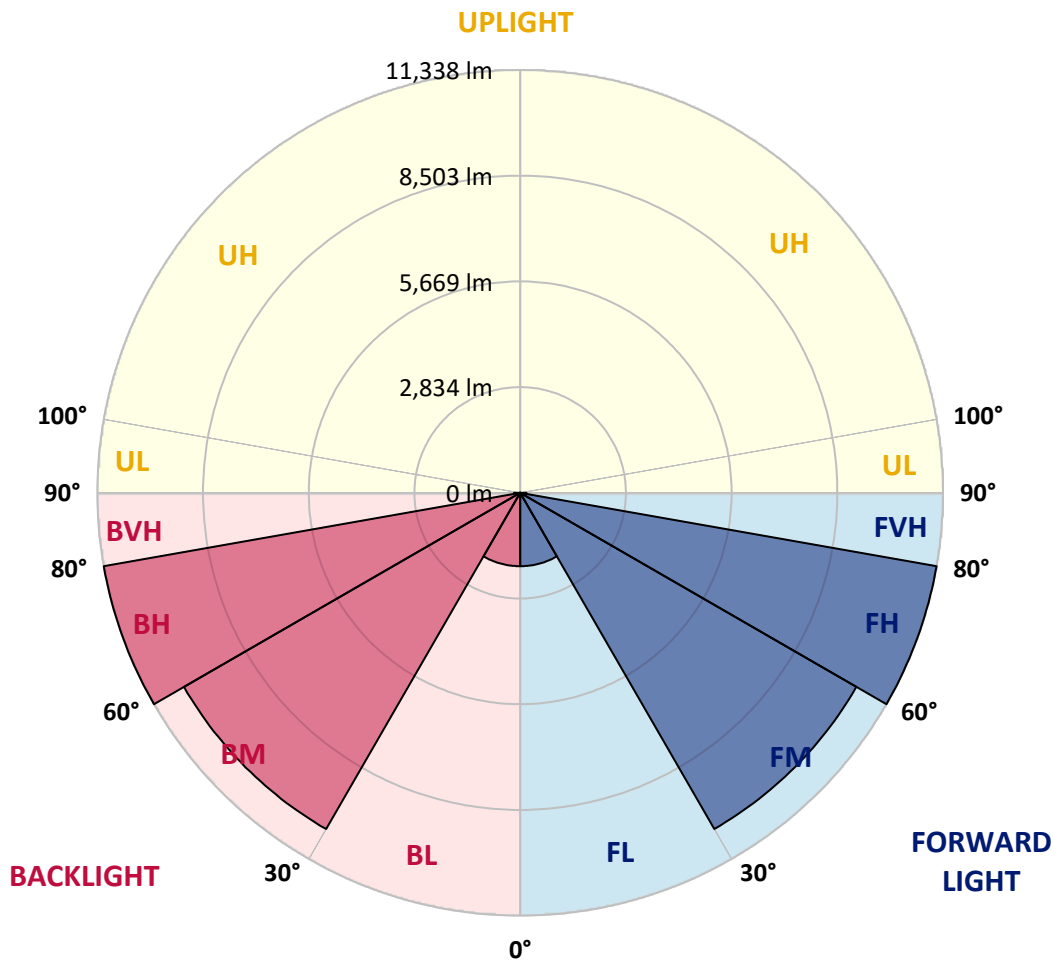
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1967.9  | 4.1       |                         |      |          |
| FM   | (30°-60°)   | 10409.2 | 21.8      |                         |      |          |
| FH   | (60°-80°)   | 11337.7 | 23.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 166.6   | 0.3       |                         |      | G2/225   |
| BL   | (0°-30°)    | 1967.9  | 4.1       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 10409.2 | 21.8      | B5                      |      |          |
| BH   | (60°-80°)   | 11337.7 | 23.7      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 166.6   | 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-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4759.8  | 4759.8  | 4759.8  | 4759.8  | 4759.8  | 4759.8  | 4759.8  | 4759.8  | 4759.8  | 4759.8  | 4759.8  |
| 2.5°  | 4742.2  | 4746.6  | 4746.6  | 4746.6  | 4744.4  | 4744.4  | 4739.9  | 4744.4  | 4742.2  | 4735.7  | 4737.8  |
| 5°    | 4702.6  | 4707.1  | 4707.1  | 4704.9  | 4711.4  | 4709.3  | 4702.6  | 4707.1  | 4704.9  | 4700.4  | 4702.6  |
| 7.5°  | 4645.6  | 4652.1  | 4652.1  | 4649.9  | 4656.5  | 4654.4  | 4649.9  | 4652.1  | 4652.1  | 4645.6  | 4645.6  |
| 10°   | 4581.9  | 4586.2  | 4586.2  | 4584.1  | 4595.0  | 4595.0  | 4592.9  | 4599.4  | 4601.6  | 4595.0  | 4590.7  |
| 12.5° | 4522.5  | 4529.2  | 4529.2  | 4537.9  | 4548.8  | 4553.2  | 4564.3  | 4573.0  | 4581.9  | 4579.6  | 4570.8  |
| 15°   | 4487.5  | 4491.7  | 4500.6  | 4511.6  | 4529.2  | 4544.5  | 4562.1  | 4581.9  | 4599.4  | 4603.9  | 4590.7  |
| 17.5° | 4465.5  | 4472.0  | 4485.1  | 4500.6  | 4524.8  | 4551.2  | 4577.5  | 4603.9  | 4628.0  | 4636.7  | 4621.4  |
| 20°   | 4458.8  | 4463.3  | 4476.4  | 4502.8  | 4535.7  | 4575.2  | 4612.5  | 4643.3  | 4676.2  | 4687.3  | 4676.2  |
| 22.5° | 4472.0  | 4480.8  | 4496.1  | 4527.0  | 4570.8  | 4621.4  | 4665.3  | 4707.1  | 4748.8  | 4768.6  | 4753.2  |
| 25°   | 4531.3  | 4540.2  | 4559.8  | 4599.4  | 4647.7  | 4700.4  | 4751.0  | 4799.4  | 4836.7  | 4856.3  | 4845.5  |
| 27.5° | 4641.2  | 4652.1  | 4676.2  | 4715.8  | 4768.6  | 4825.6  | 4880.6  | 4920.0  | 4950.9  | 4957.4  | 4944.4  |
| 30°   | 4805.9  | 4830.0  | 4858.7  | 4902.5  | 4964.0  | 5012.4  | 5067.2  | 5102.5  | 5139.7  | 5139.7  | 5128.8  |
| 32.5° | 5062.8  | 5087.0  | 5117.9  | 5159.5  | 5207.8  | 5260.6  | 5309.0  | 5339.6  | 5379.2  | 5381.3  | 5354.9  |
| 35°   | 5447.2  | 5458.2  | 5484.6  | 5510.9  | 5554.8  | 5601.0  | 5642.8  | 5662.6  | 5695.4  | 5697.7  | 5673.4  |
| 37.5° | 5954.7  | 5956.8  | 5974.4  | 5983.3  | 6022.7  | 6073.3  | 6112.7  | 6126.0  | 6156.8  | 6152.3  | 6128.1  |
| 40°   | 6545.5  | 6556.5  | 6563.0  | 6576.2  | 6618.1  | 6666.3  | 6708.1  | 6714.7  | 6747.6  | 6741.1  | 6710.2  |
| 42.5° | 7228.7  | 7233.1  | 7270.3  | 7290.1  | 7329.6  | 7353.9  | 7406.5  | 7413.2  | 7452.7  | 7435.1  | 7400.0  |
| 45°   | 7995.2  | 8034.7  | 8069.8  | 8109.4  | 8151.1  | 8179.6  | 8221.4  | 8212.7  | 8239.0  | 8212.7  | 8192.8  |
| 47.5° | 8801.2  | 8829.8  | 8908.9  | 8970.5  | 9038.4  | 9062.7  | 9122.0  | 9095.6  | 9122.0  | 9084.6  | 9078.0  |
| 50°   | 9688.7  | 9739.2  | 9807.2  | 9877.6  | 9950.0  | 9989.6  | 10066.4 | 10033.4 | 10068.7 | 10033.4 | 10013.8 |
| 52.5° | 10562.9 | 10576.0 | 10725.5 | 10828.6 | 10929.7 | 10975.9 | 11021.9 | 11006.6 | 11008.8 | 11006.6 | 10986.8 |
| 55°   | 11393.2 | 11423.8 | 11573.3 | 11713.8 | 11889.5 | 12019.1 | 12098.3 | 12089.4 | 12069.6 | 12049.9 | 12016.9 |
| 57.5° | 12328.8 | 12359.6 | 12530.8 | 12704.4 | 12904.3 | 13088.8 | 13249.1 | 13413.9 | 13477.6 | 13495.1 | 13422.7 |
| 60°   | 13594.1 | 13591.7 | 13820.2 | 14031.0 | 14316.6 | 14591.2 | 14942.6 | 15300.7 | 15711.4 | 15902.4 | 15649.9 |
| 62.5° | 14881.1 | 14933.9 | 15263.3 | 15636.7 | 16225.4 | 16798.7 | 17446.6 | 18083.6 | 18733.8 | 19263.2 | 18700.8 |
| 65°   | 14727.4 | 14929.4 | 15419.2 | 16264.9 | 17352.2 | 18643.8 | 20040.6 | 21518.9 | 22854.4 | 23772.4 | 22742.3 |
| 67.5° | 12763.7 | 13051.5 | 13550.0 | 14578.1 | 15937.5 | 17800.3 | 20146.1 | 23069.6 | 26467.5 | 28110.5 | 26074.4 |
| 70°   | 9251.6  | 9576.7  | 10099.5 | 11103.2 | 12449.6 | 14220.0 | 16767.9 | 20277.9 | 24776.2 | 26432.4 | 24189.7 |
| 72.5° | 4603.9  | 4779.5  | 5102.5  | 5741.5  | 6760.7  | 8197.3  | 10508.0 | 13881.8 | 17861.8 | 19381.7 | 17332.3 |
| 75°   | 1563.9  | 1645.2  | 1700.1  | 1908.8  | 2231.6  | 2796.2  | 3944.8  | 6068.9  | 9258.1  | 11098.7 | 9126.4  |
| 77.5° | 902.7   | 905.0   | 942.3   | 979.6   | 1034.6  | 1096.0  | 1249.8  | 1640.8  | 2837.8  | 4030.5  | 2936.6  |
| 80°   | 584.3   | 582.0   | 612.9   | 641.4   | 678.7   | 709.4   | 718.3   | 760.0   | 876.3   | 1038.9  | 929.0   |
| 82.5° | 303.1   | 340.5   | 408.5   | 445.9   | 516.2   | 529.3   | 511.8   | 496.5   | 525.0   | 544.7   | 557.8   |
| 85°   | 166.9   | 144.9   | 217.5   | 281.2   | 311.9   | 316.4   | 316.4   | 298.7   | 309.6   | 303.1   | 329.5   |
| 87.5° | 76.8    | 70.2    | 85.7    | 138.3   | 147.1   | 125.3   | 131.8   | 116.4   | 83.5    | 81.2    | 92.3    |
| 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°    | 4759.8  | 4759.8  | 4759.8  | 4759.8  | 4759.8  | 4759.8  | 4759.8  | 4759.8  |
| 2.5°  | 4737.8  | 4739.9  | 4739.9  | 4746.6  | 4748.8  | 4753.2  | 4757.6  | 4759.8  |
| 5°    | 4700.4  | 4707.1  | 4702.6  | 4709.3  | 4709.3  | 4713.6  | 4713.6  | 4715.8  |
| 7.5°  | 4645.6  | 4652.1  | 4652.1  | 4652.1  | 4649.9  | 4656.5  | 4656.5  | 4656.5  |
| 10°   | 4588.5  | 4592.9  | 4590.7  | 4586.2  | 4581.9  | 4588.5  | 4586.2  | 4584.1  |
| 12.5° | 4570.8  | 4559.8  | 4551.2  | 4546.7  | 4537.9  | 4540.2  | 4533.6  | 4533.6  |
| 15°   | 4581.9  | 4562.1  | 4546.7  | 4540.2  | 4531.3  | 4527.0  | 4522.5  | 4524.8  |
| 17.5° | 4610.5  | 4586.2  | 4566.4  | 4555.5  | 4544.5  | 4537.9  | 4529.2  | 4531.3  |
| 20°   | 4660.9  | 4632.4  | 4603.9  | 4581.9  | 4562.1  | 4551.2  | 4544.5  | 4542.3  |
| 22.5° | 4735.7  | 4693.9  | 4652.1  | 4619.2  | 4592.9  | 4577.5  | 4570.8  | 4566.4  |
| 25°   | 4821.3  | 4775.1  | 4726.8  | 4689.5  | 4663.1  | 4643.3  | 4630.1  | 4630.1  |
| 27.5° | 4928.9  | 4891.5  | 4847.7  | 4803.6  | 4779.5  | 4759.8  | 4751.0  | 4746.6  |
| 30°   | 5109.0  | 5073.8  | 5038.8  | 4997.0  | 4966.2  | 4946.4  | 4931.1  | 4918.0  |
| 32.5° | 5339.6  | 5311.0  | 5282.6  | 5251.9  | 5223.3  | 5196.9  | 5172.7  | 5161.8  |
| 35°   | 5664.7  | 5642.8  | 5623.0  | 5587.8  | 5576.9  | 5561.4  | 5548.3  | 5537.3  |
| 37.5° | 6112.7  | 6104.1  | 6104.1  | 6066.7  | 6057.9  | 6051.3  | 6038.0  | 6040.4  |
| 40°   | 6701.4  | 6710.2  | 6699.3  | 6686.1  | 6679.4  | 6661.9  | 6661.9  | 6677.3  |
| 42.5° | 7397.7  | 7404.3  | 7428.4  | 7406.5  | 7430.7  | 7408.7  | 7395.6  | 7406.5  |
| 45°   | 8206.0  | 8230.2  | 8278.5  | 8256.5  | 8272.0  | 8234.7  | 8188.5  | 8190.7  |
| 47.5° | 9113.1  | 9135.1  | 9154.9  | 9139.5  | 9141.7  | 9080.2  | 9018.8  | 9003.4  |
| 50°   | 10055.4 | 10064.3 | 10075.2 | 10053.3 | 10057.7 | 9989.6  | 9919.3  | 9921.5  |
| 52.5° | 10986.8 | 11028.5 | 11072.5 | 11013.1 | 10999.9 | 10923.1 | 10824.2 | 10784.7 |
| 55°   | 12052.1 | 12111.4 | 12060.9 | 11957.6 | 11854.5 | 11751.2 | 11621.6 | 11599.6 |
| 57.5° | 13365.5 | 13264.6 | 13106.5 | 12910.9 | 12768.1 | 12623.2 | 12491.4 | 12436.5 |
| 60°   | 15193.0 | 14813.1 | 14527.5 | 14237.5 | 14055.3 | 13877.3 | 13703.9 | 13677.5 |
| 62.5° | 17776.1 | 17119.3 | 16550.5 | 15950.8 | 15461.0 | 15078.8 | 14773.5 | 14687.8 |
| 65°   | 21013.7 | 19460.8 | 18114.3 | 16858.0 | 15766.3 | 14942.6 | 14424.3 | 14195.8 |
| 67.5° | 22406.2 | 19340.0 | 17031.4 | 15247.9 | 13820.2 | 12823.0 | 12262.9 | 11984.0 |
| 70°   | 19689.2 | 16038.7 | 13528.0 | 11742.4 | 10442.1 | 9378.9  | 8871.7  | 8572.9  |
| 72.5° | 13545.7 | 10202.6 | 8067.7  | 6585.0  | 5546.0  | 4656.5  | 4305.0  | 4278.7  |
| 75°   | 6082.1  | 4028.3  | 2776.3  | 2139.4  | 1801.1  | 1566.0  | 1493.6  | 1438.6  |
| 77.5° | 1702.3  | 1258.5  | 1122.4  | 1049.8  | 979.6   | 898.3   | 867.7   | 874.2   |
| 80°   | 828.1   | 782.0   | 751.3   | 705.1   | 641.4   | 573.3   | 542.5   | 555.7   |
| 82.5° | 549.1   | 542.5   | 562.2   | 529.3   | 437.0   | 371.2   | 311.9   | 285.5   |
| 85°   | 333.9   | 338.2   | 344.9   | 347.0   | 294.4   | 206.5   | 140.6   | 158.1   |
| 87.5° | 131.8   | 151.5   | 164.7   | 171.3   | 160.3   | 98.9    | 79.1    | 81.2    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)