

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: P193566

Luminaire Tested: **GAN-AF-08-LED-U-RW-8030-1200**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P193566  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
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-RW-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 43651 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B5 - U0 - G3

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

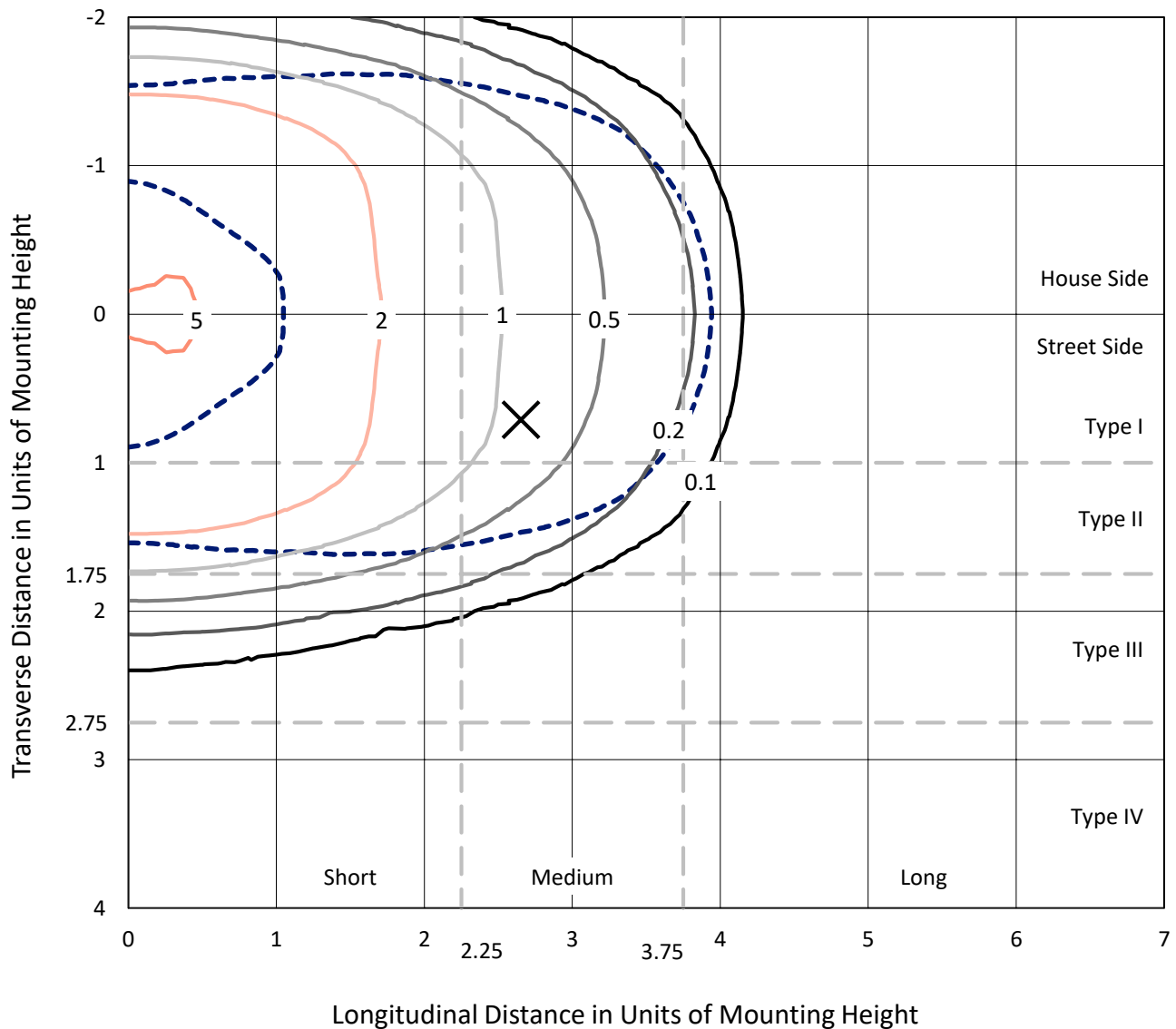


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

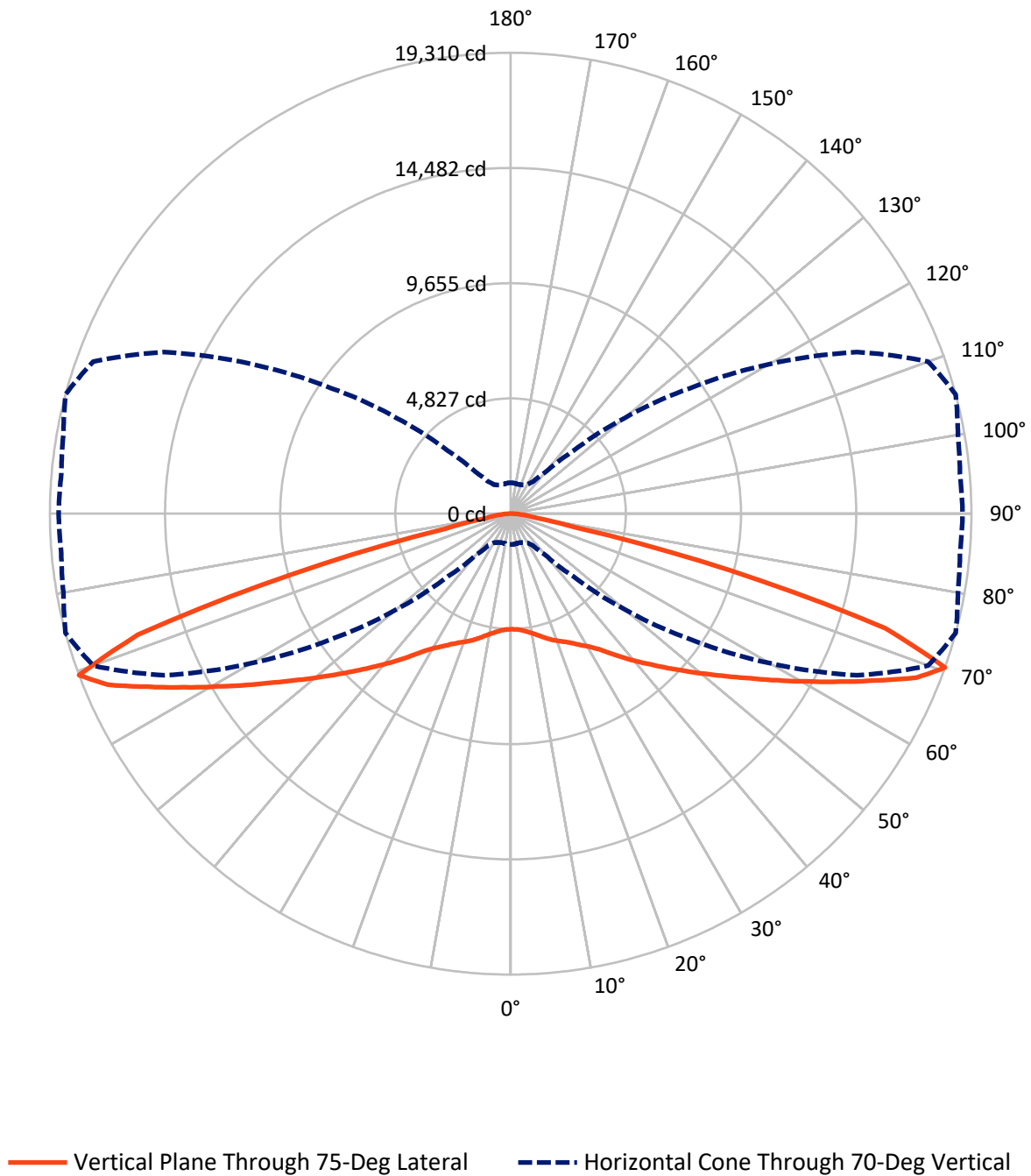


Based on 30 foot mounting height. Maximum calculated value = 5.4 fc  
Type V - Medium - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 21825.5  | 0.0    | 21825.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 21825.5  | 0.0    | 21825.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 43651.0  | 0.0    | 43651.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 464.4   | 1.1       |
| 10°-20°   | 1442.9  | 3.3       |
| 20°-30°   | 2715.7  | 6.2       |
| 30°-40°   | 4809.0  | 11.0      |
| 40°-50°   | 8042.3  | 18.4      |
| 50°-60°   | 11206.9 | 25.7      |
| 60°-70°   | 10392.6 | 23.8      |
| 70°-80°   | 4141.8  | 9.5       |
| 80°-90°   | 435.4   | 1.0       |
| 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°    | 43651.0 | 100.0     |
| 0°-180°   | 43651.0 | 100.0     |

**Coefficient of Utilization**



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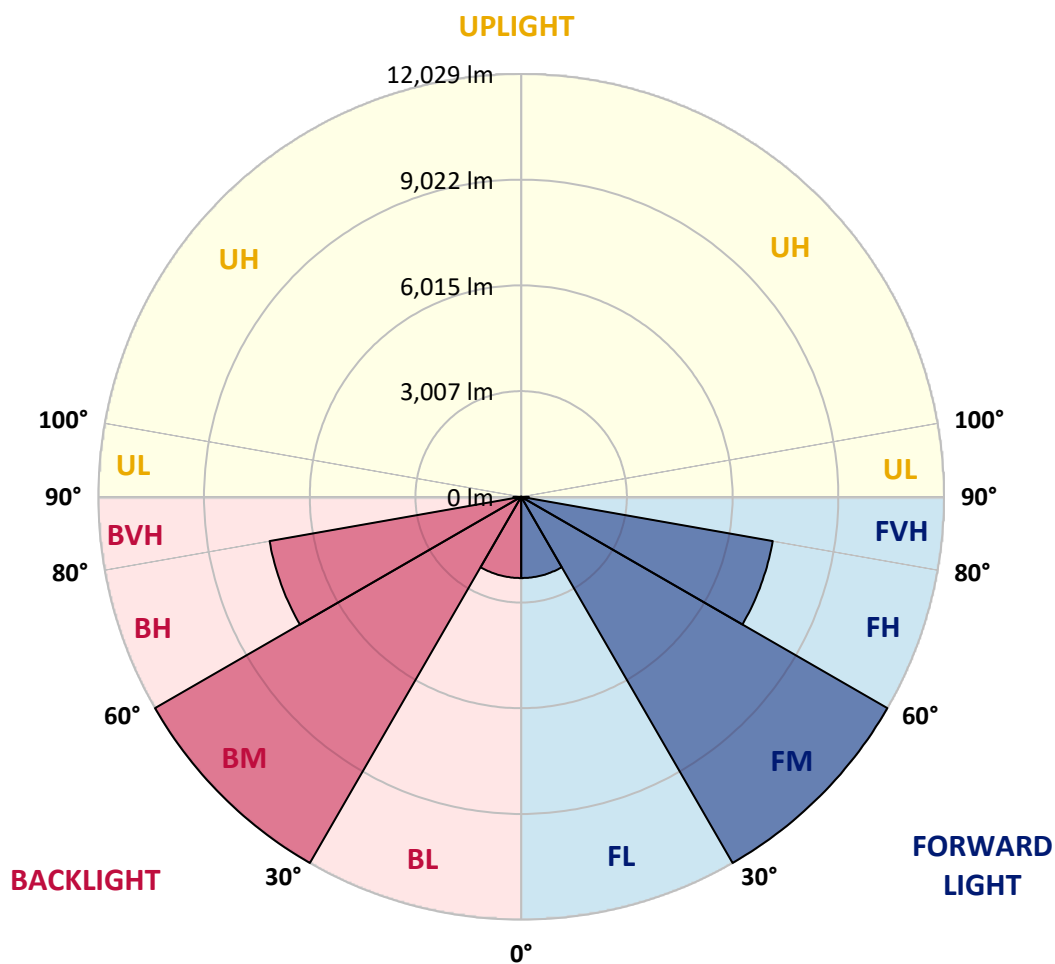
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2311.5  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 12029.1 | 27.6      |                         |      |         |
| FH   | (60°-80°)   | 7267.2  | 16.6      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 217.7   | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 2311.5  | 5.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 12029.1 | 27.6      | B5                      |      |         |
| BH   | (60°-80°)   | 7267.2  | 16.6      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 217.7   | 0.5       |                         |      | 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 Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4841.9  | 4841.9  | 4841.9  | 4841.9  | 4841.9  | 4841.9  | 4841.9  | 4841.9  | 4841.9  | 4841.9  | 4841.9  |
| 2.5°  | 4833.7  | 4829.5  | 4833.7  | 4831.6  | 4835.7  | 4835.7  | 4839.9  | 4848.1  | 4848.1  | 4854.3  | 4852.2  |
| 5°    | 4786.2  | 4784.1  | 4790.3  | 4796.5  | 4802.7  | 4815.1  | 4827.5  | 4846.0  | 4860.5  | 4870.8  | 4881.1  |
| 7.5°  | 4693.4  | 4693.4  | 4701.6  | 4716.1  | 4730.5  | 4757.3  | 4786.2  | 4823.3  | 4860.5  | 4891.4  | 4918.2  |
| 10°   | 4617.0  | 4621.2  | 4631.5  | 4656.2  | 4681.0  | 4722.3  | 4761.5  | 4815.1  | 4866.7  | 4918.2  | 4959.5  |
| 12.5° | 4571.7  | 4577.8  | 4596.4  | 4633.5  | 4674.8  | 4730.5  | 4790.3  | 4858.4  | 4916.2  | 4978.1  | 5019.3  |
| 15°   | 4586.1  | 4590.2  | 4617.0  | 4662.4  | 4716.1  | 4786.2  | 4866.7  | 4947.1  | 5015.2  | 5081.2  | 5136.9  |
| 17.5° | 4666.6  | 4672.7  | 4703.7  | 4755.3  | 4811.0  | 4893.5  | 4980.1  | 5070.9  | 5155.5  | 5229.8  | 5297.8  |
| 20°   | 4811.0  | 4817.2  | 4856.4  | 4912.1  | 4978.1  | 5062.7  | 5149.3  | 5244.2  | 5339.1  | 5417.5  | 5493.8  |
| 22.5° | 5015.2  | 5025.5  | 5062.7  | 5118.4  | 5192.6  | 5283.4  | 5386.6  | 5487.6  | 5578.4  | 5650.6  | 5718.7  |
| 25°   | 5283.4  | 5306.1  | 5341.2  | 5403.1  | 5481.4  | 5564.0  | 5675.4  | 5778.5  | 5865.2  | 5933.3  | 5982.8  |
| 27.5° | 5663.0  | 5693.9  | 5720.8  | 5780.6  | 5856.9  | 5935.3  | 6046.7  | 6137.5  | 6220.0  | 6286.0  | 6323.2  |
| 30°   | 6166.4  | 6197.3  | 6224.1  | 6281.9  | 6352.0  | 6426.3  | 6531.5  | 6612.0  | 6663.6  | 6715.1  | 6713.1  |
| 32.5° | 6777.0  | 6810.0  | 6820.4  | 6882.2  | 6954.4  | 7034.9  | 7129.8  | 7175.2  | 7216.5  | 7222.6  | 7185.5  |
| 35°   | 7459.9  | 7476.4  | 7517.7  | 7600.2  | 7682.7  | 7748.7  | 7839.5  | 7862.2  | 7862.2  | 7831.2  | 7748.7  |
| 37.5° | 8208.8  | 8219.1  | 8276.8  | 8369.7  | 8454.3  | 8522.3  | 8584.2  | 8629.6  | 8606.9  | 8540.9  | 8402.7  |
| 40°   | 9029.8  | 9048.4  | 9130.9  | 9213.5  | 9308.4  | 9372.3  | 9438.3  | 9446.6  | 9423.9  | 9326.9  | 9139.2  |
| 42.5° | 9813.8  | 9830.3  | 9912.8  | 10042.8 | 10166.6 | 10255.3 | 10317.2 | 10329.6 | 10257.3 | 10168.6 | 9935.5  |
| 45°   | 10488.4 | 10531.7 | 10639.0 | 10791.7 | 10971.2 | 11097.0 | 11181.6 | 11216.7 | 11152.7 | 11037.2 | 10766.9 |
| 47.5° | 11022.7 | 11066.1 | 11218.7 | 11400.3 | 11623.1 | 11827.3 | 11967.6 | 12041.9 | 12025.4 | 11938.7 | 11643.7 |
| 50°   | 11414.7 | 11456.0 | 11621.0 | 11843.8 | 12103.8 | 12357.5 | 12596.8 | 12774.2 | 12836.1 | 12796.9 | 12526.7 |
| 52.5° | 11460.1 | 11528.2 | 11722.1 | 12021.2 | 12359.6 | 12706.2 | 13046.6 | 13347.8 | 13552.0 | 13582.9 | 13382.8 |
| 55°   | 10826.7 | 10894.8 | 11163.0 | 11606.6 | 12109.9 | 12675.2 | 13219.8 | 13727.3 | 14129.6 | 14335.9 | 14230.7 |
| 57.5° | 9333.1  | 9454.8  | 9737.5  | 10257.3 | 10998.0 | 11843.8 | 12712.3 | 13613.9 | 14432.9 | 14979.6 | 15084.8 |
| 60°   | 7152.5  | 7296.9  | 7581.6  | 8134.5  | 8959.7  | 9968.5  | 11127.9 | 12460.7 | 13906.8 | 15136.4 | 15870.8 |
| 62.5° | 4588.2  | 4724.3  | 5023.5  | 5504.1  | 6176.7  | 7270.1  | 8514.1  | 10096.4 | 12039.8 | 13981.1 | 15730.5 |
| 65°   | 2358.0  | 2432.3  | 2589.1  | 2880.0  | 3404.0  | 4220.9  | 5337.0  | 6915.3  | 9137.1  | 11532.3 | 14061.6 |
| 67.5° | 1493.6  | 1508.1  | 1543.1  | 1584.4  | 1718.5  | 2001.1  | 2521.0  | 3505.1  | 5332.9  | 7831.2  | 10791.7 |
| 70°   | 1291.5  | 1291.5  | 1274.9  | 1268.8  | 1285.3  | 1324.5  | 1404.9  | 1633.9  | 2250.8  | 3717.6  | 6224.1  |
| 72.5° | 1182.1  | 1169.7  | 1140.9  | 1118.2  | 1114.0  | 1114.0  | 1130.5  | 1165.6  | 1264.6  | 1514.3  | 2436.4  |
| 75°   | 1089.3  | 1054.2  | 1015.0  | 988.2   | 977.9   | 967.6   | 965.5   | 971.7   | 992.3   | 1031.5  | 1163.5  |
| 77.5° | 975.8   | 930.4   | 885.0   | 858.2   | 845.8   | 831.4   | 819.0   | 804.6   | 794.3   | 806.6   | 864.4   |
| 80°   | 839.7   | 788.1   | 753.0   | 736.5   | 724.1   | 703.5   | 676.7   | 651.9   | 629.2   | 625.1   | 660.2   |
| 82.5° | 676.7   | 616.8   | 618.9   | 625.1   | 602.4   | 573.5   | 544.6   | 517.8   | 478.6   | 458.0   | 478.6   |
| 85°   | 546.7   | 515.8   | 501.3   | 540.5   | 507.5   | 464.2   | 418.8   | 371.3   | 309.5   | 259.9   | 282.6   |
| 87.5° | 212.5   | 212.5   | 317.7   | 488.9   | 439.4   | 359.0   | 307.4   | 262.0   | 163.0   | 125.8   | 127.9   |
| 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°    | 4841.9  | 4841.9  | 4841.9  | 4841.9  | 4841.9  | 4841.9  | 4841.9  | 4841.9  |
| 2.5°  | 4850.2  | 4854.3  | 4852.2  | 4850.2  | 4850.2  | 4848.1  | 4850.2  | 4850.2  |
| 5°    | 4887.3  | 4897.6  | 4897.6  | 4901.7  | 4901.7  | 4903.8  | 4905.9  | 4903.8  |
| 7.5°  | 4943.0  | 4961.6  | 4973.9  | 4988.4  | 4990.5  | 4992.5  | 4996.6  | 4992.5  |
| 10°   | 4998.7  | 5035.8  | 5062.7  | 5089.5  | 5101.9  | 5106.0  | 5110.1  | 5110.1  |
| 12.5° | 5068.8  | 5120.4  | 5167.9  | 5215.3  | 5238.0  | 5250.4  | 5250.4  | 5258.6  |
| 15°   | 5184.4  | 5236.0  | 5291.7  | 5355.6  | 5394.8  | 5415.4  | 5421.6  | 5421.6  |
| 17.5° | 5347.4  | 5392.7  | 5440.2  | 5502.1  | 5551.6  | 5578.4  | 5584.6  | 5582.5  |
| 20°   | 5537.2  | 5580.5  | 5607.3  | 5646.5  | 5689.8  | 5720.8  | 5729.0  | 5729.0  |
| 22.5° | 5753.8  | 5778.5  | 5782.7  | 5795.0  | 5830.1  | 5871.4  | 5889.9  | 5894.1  |
| 25°   | 5993.1  | 5999.3  | 5982.8  | 5982.8  | 6005.5  | 6044.7  | 6063.2  | 6065.3  |
| 27.5° | 6302.5  | 6271.6  | 6230.3  | 6215.9  | 6230.3  | 6275.7  | 6298.4  | 6306.7  |
| 30°   | 6688.3  | 6614.0  | 6519.2  | 6467.6  | 6459.3  | 6519.2  | 6560.4  | 6566.6  |
| 32.5° | 7129.8  | 7022.5  | 6896.7  | 6791.5  | 6764.6  | 6801.8  | 6851.3  | 6849.2  |
| 35°   | 7653.8  | 7525.9  | 7373.2  | 7239.1  | 7177.3  | 7214.4  | 7284.5  | 7292.8  |
| 37.5° | 8258.3  | 8091.2  | 7915.8  | 7746.6  | 7649.7  | 7660.0  | 7734.3  | 7759.0  |
| 40°   | 8932.9  | 8716.3  | 8495.5  | 8268.6  | 8130.4  | 8103.6  | 8194.3  | 8208.8  |
| 42.5° | 9654.9  | 9376.4  | 9097.9  | 8817.4  | 8639.9  | 8598.7  | 8703.9  | 8697.7  |
| 45°   | 10424.5 | 10069.6 | 9743.7  | 9434.2  | 9223.8  | 9161.9  | 9248.5  | 9248.5  |
| 47.5° | 11251.7 | 10814.4 | 10426.5 | 10075.8 | 9846.8  | 9758.1  | 9840.6  | 9846.8  |
| 50°   | 12128.5 | 11664.3 | 11208.4 | 10818.5 | 10544.1 | 10430.6 | 10537.9 | 10554.4 |
| 52.5° | 13001.2 | 12549.4 | 12089.3 | 11643.7 | 11311.6 | 11173.3 | 11297.1 | 11350.7 |
| 55°   | 13886.2 | 13442.7 | 13003.2 | 12567.9 | 12173.9 | 12010.9 | 12142.9 | 12211.0 |
| 57.5° | 14820.8 | 14410.2 | 13991.4 | 13552.0 | 13172.4 | 12918.6 | 13058.9 | 13149.7 |
| 60°   | 15916.2 | 15565.5 | 15130.2 | 14645.4 | 14261.7 | 14003.8 | 14084.3 | 14164.7 |
| 62.5° | 16782.7 | 16918.8 | 16549.6 | 15988.4 | 15495.4 | 15165.3 | 15243.7 | 15328.3 |
| 65°   | 16363.9 | 17760.6 | 18088.6 | 17521.2 | 16838.4 | 16324.7 | 16291.7 | 16335.0 |
| 67.5° | 13677.8 | 16390.7 | 18369.1 | 18909.7 | 18338.2 | 17624.4 | 17492.4 | 17556.3 |
| 70°   | 9149.5  | 12528.7 | 16019.4 | 18618.8 | 19309.9 | 19033.4 | 18903.5 | 18942.7 |
| 72.5° | 4394.2  | 7296.9  | 10868.0 | 14323.6 | 16427.8 | 17393.3 | 17702.8 | 17853.4 |
| 75°   | 1607.1  | 2896.5  | 5238.0  | 7893.1  | 9529.1  | 11031.0 | 12010.9 | 12411.1 |
| 77.5° | 969.6   | 1169.7  | 1673.1  | 2519.0  | 2853.2  | 3193.6  | 3061.5  | 3127.5  |
| 80°   | 717.9   | 810.8   | 918.0   | 1031.5  | 1068.6  | 1068.6  | 1027.4  | 994.4   |
| 82.5° | 503.4   | 563.2   | 614.8   | 676.7   | 693.2   | 662.2   | 544.6   | 433.2   |
| 85°   | 323.9   | 350.7   | 373.4   | 412.6   | 402.3   | 383.7   | 257.9   | 229.0   |
| 87.5° | 148.5   | 169.2   | 177.4   | 196.0   | 187.7   | 179.5   | 127.9   | 107.3   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)