

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: P191664

Luminaire Tested: **GAN-AF-06-LED-U-5NQ-7050-1200-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191664  
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-06-LED-U-5NQ-7050-1200-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40285 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 382  
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

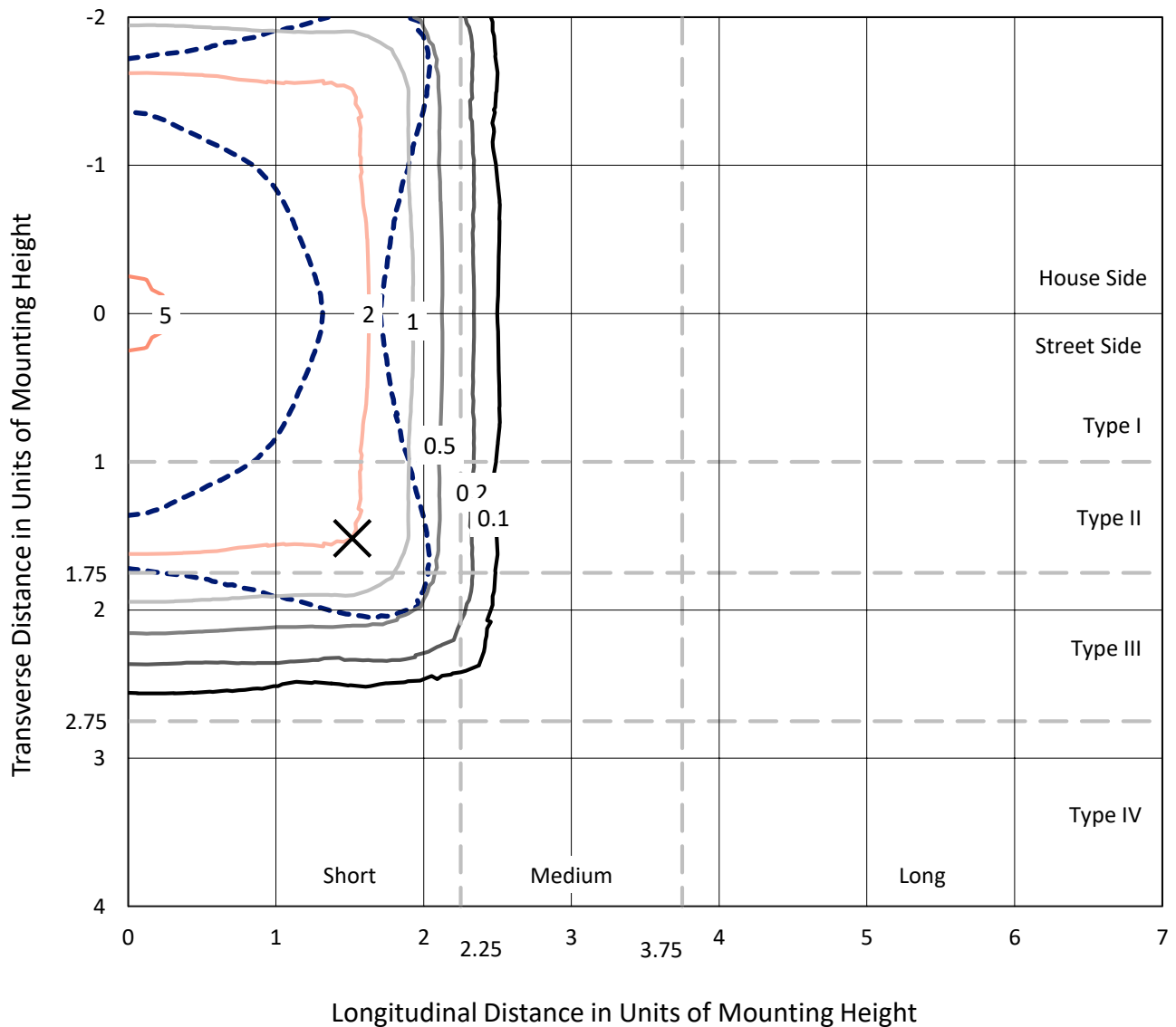


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

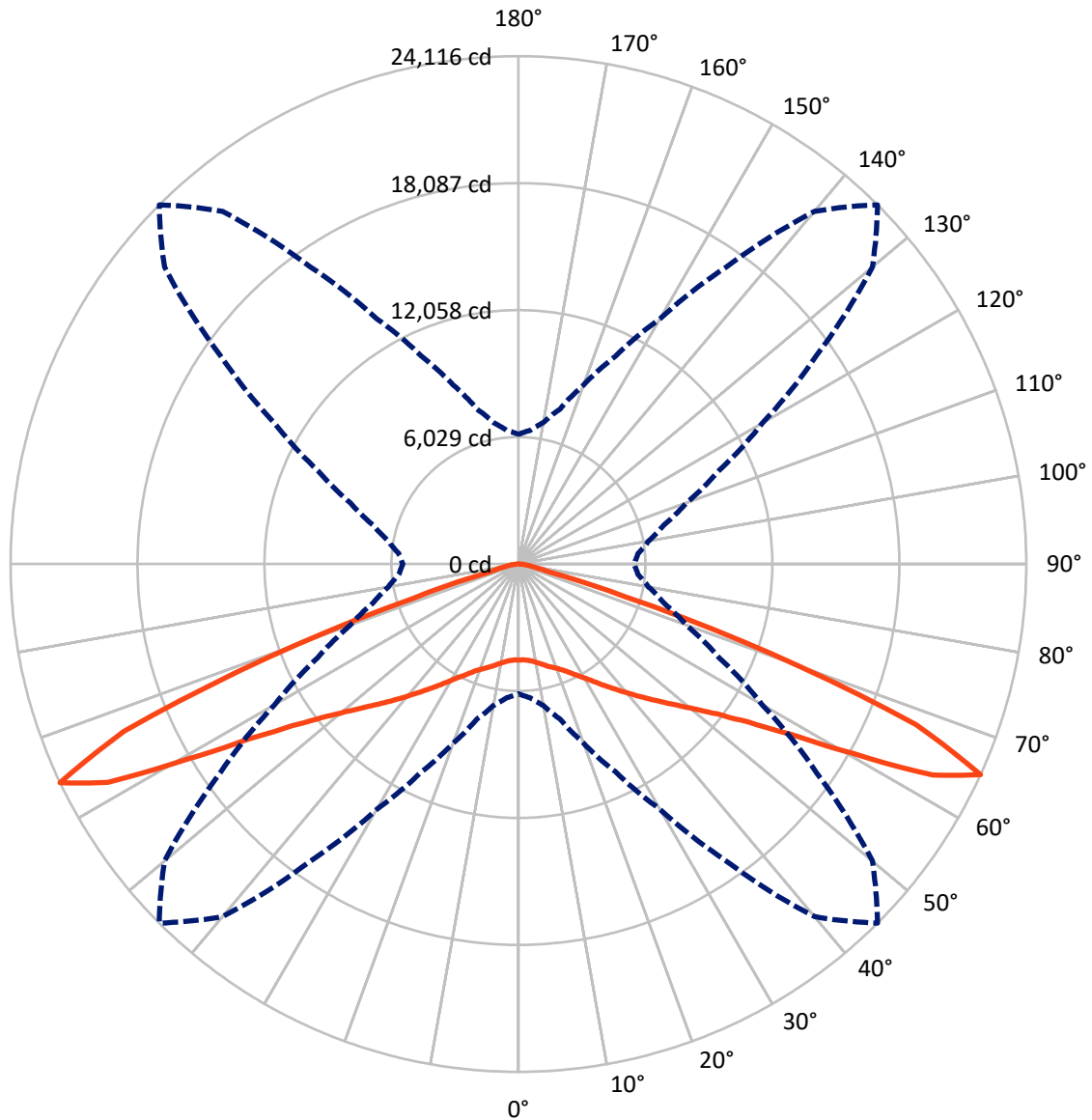


Based on 30 foot mounting height. Maximum calculated value = 5.1 fc  
 Type V - Short - Full Cutoff

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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    | 20142.5  | 0.0    | 20142.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 20142.5  | 0.0    | 20142.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 40285.0  | 0.0    | 40285.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 444.3   | 1.1       |
| 10°-20°   | 1424.9  | 3.5       |
| 20°-30°   | 2664.3  | 6.6       |
| 30°-40°   | 4506.1  | 11.2      |
| 40°-50°   | 7367.9  | 18.3      |
| 50°-60°   | 11716.1 | 29.1      |
| 60°-70°   | 10590.6 | 26.3      |
| 70°-80°   | 1340.3  | 3.3       |
| 80°-90°   | 230.6   | 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°    | 40285.0 | 100.0     |
| 0°-180°   | 40285.0 | 100.0     |



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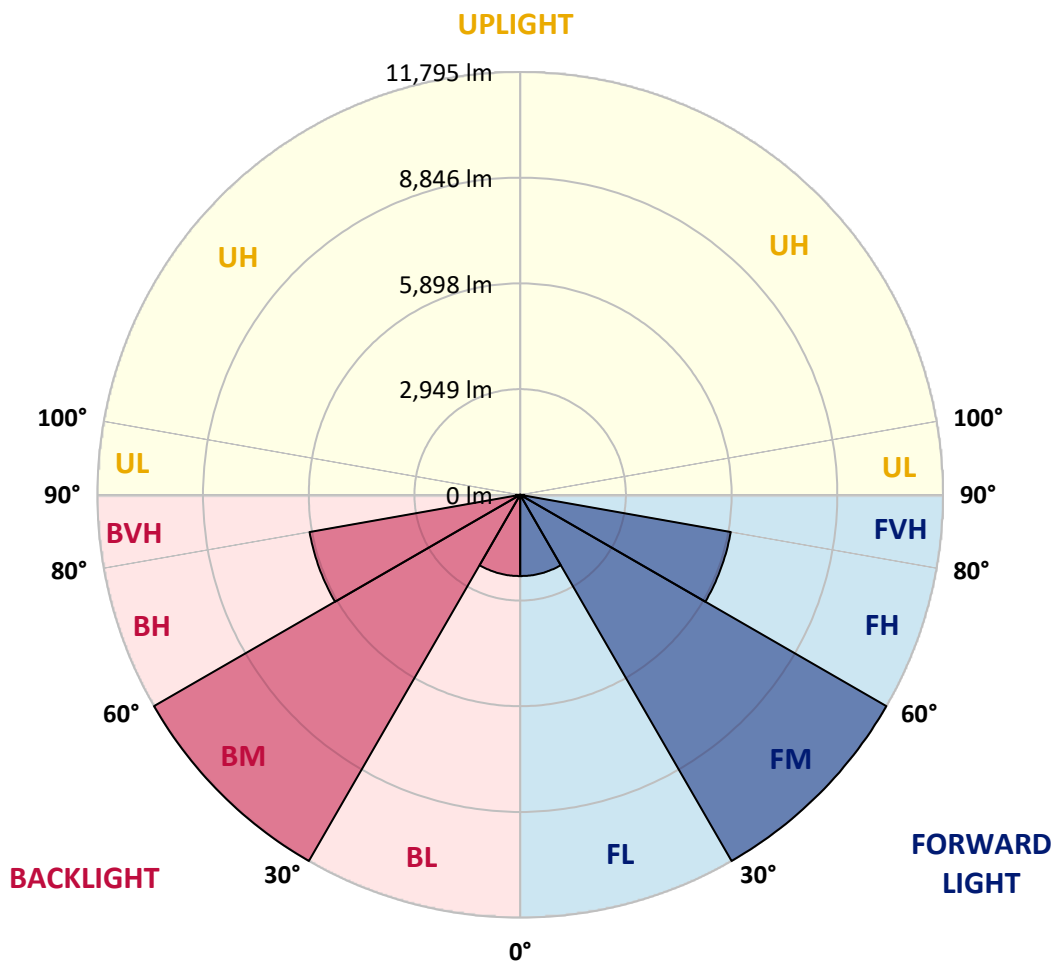
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2266.7  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 11795.0 | 29.3      |                         |      |         |
| FH   | (60°-80°)   | 5965.4  | 14.8      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 115.3   | 0.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 2266.7  | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 11795.0 | 29.3      | B5                      |      |         |
| BH   | (60°-80°)   | 5965.4  | 14.8      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 115.3   | 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°    | 4558.3  | 4558.3  | 4558.3  | 4558.3  | 4558.3  | 4558.3  | 4558.3  | 4558.3  | 4558.3  | 4558.3  | 4558.3  |
| 2.5°  | 4562.0  | 4565.8  | 4569.6  | 4565.8  | 4569.6  | 4563.9  | 4560.2  | 4565.8  | 4560.2  | 4554.5  | 4558.3  |
| 5°    | 4601.7  | 4603.6  | 4603.6  | 4597.9  | 4603.6  | 4599.8  | 4594.1  | 4601.7  | 4596.0  | 4590.3  | 4594.1  |
| 7.5°  | 4667.7  | 4675.2  | 4669.6  | 4663.9  | 4667.7  | 4663.9  | 4660.2  | 4662.0  | 4660.2  | 4654.5  | 4656.4  |
| 10°   | 4756.4  | 4762.0  | 4758.3  | 4756.4  | 4760.1  | 4758.3  | 4754.5  | 4752.6  | 4754.5  | 4748.8  | 4748.8  |
| 12.5° | 4863.9  | 4862.0  | 4860.1  | 4862.0  | 4867.7  | 4867.7  | 4865.8  | 4867.7  | 4871.5  | 4873.3  | 4869.6  |
| 15°   | 4969.6  | 4973.3  | 4973.3  | 4973.3  | 4984.7  | 4994.1  | 4999.8  | 5003.5  | 5011.1  | 5013.0  | 5005.4  |
| 17.5° | 5101.6  | 5101.6  | 5099.8  | 5101.6  | 5113.0  | 5128.1  | 5133.7  | 5141.3  | 5148.8  | 5154.5  | 5145.0  |
| 20°   | 5248.8  | 5252.6  | 5252.6  | 5256.3  | 5271.4  | 5288.4  | 5288.4  | 5292.2  | 5288.4  | 5292.2  | 5286.5  |
| 22.5° | 5428.0  | 5439.4  | 5439.4  | 5441.2  | 5456.3  | 5477.1  | 5471.4  | 5477.1  | 5467.7  | 5475.2  | 5467.7  |
| 25°   | 5662.0  | 5679.0  | 5675.2  | 5675.2  | 5686.5  | 5699.7  | 5701.6  | 5712.9  | 5711.0  | 5720.5  | 5714.8  |
| 27.5° | 5926.1  | 5952.5  | 5960.1  | 5958.2  | 5965.7  | 5979.0  | 5982.7  | 5995.9  | 5988.4  | 5995.9  | 5992.2  |
| 30°   | 6243.1  | 6254.4  | 6269.5  | 6275.2  | 6284.6  | 6297.8  | 6297.8  | 6299.7  | 6290.3  | 6301.6  | 6307.2  |
| 32.5° | 6571.4  | 6592.1  | 6607.2  | 6641.2  | 6658.2  | 6667.6  | 6665.7  | 6669.5  | 6660.1  | 6675.1  | 6686.5  |
| 35°   | 7005.3  | 7020.4  | 7044.9  | 7071.4  | 7094.0  | 7092.1  | 7086.4  | 7088.3  | 7088.3  | 7101.5  | 7112.9  |
| 37.5° | 7527.9  | 7531.7  | 7563.8  | 7601.5  | 7612.8  | 7601.5  | 7567.6  | 7560.0  | 7543.0  | 7560.0  | 7578.9  |
| 40°   | 8080.7  | 8093.9  | 8158.1  | 8182.6  | 8188.3  | 8167.5  | 8118.5  | 8090.2  | 8052.4  | 8073.2  | 8099.6  |
| 42.5° | 8660.0  | 8686.4  | 8744.9  | 8788.3  | 8807.1  | 8793.9  | 8726.0  | 8682.6  | 8633.5  | 8644.9  | 8671.3  |
| 45°   | 9301.4  | 9333.5  | 9416.5  | 9458.0  | 9493.9  | 9473.1  | 9407.1  | 9341.1  | 9263.7  | 9269.4  | 9310.9  |
| 47.5° | 10018.4 | 10050.5 | 10158.0 | 10227.8 | 10246.7 | 10242.9 | 10169.3 | 10078.8 | 9973.1  | 9969.3  | 10005.2 |
| 50°   | 10822.1 | 10854.2 | 10988.1 | 11095.7 | 11150.4 | 11144.7 | 11058.0 | 10929.7 | 10801.4 | 10803.2 | 10848.5 |
| 52.5° | 11607.0 | 11646.6 | 11786.2 | 11971.1 | 12078.7 | 12156.0 | 12103.2 | 11982.4 | 11825.8 | 11829.6 | 11871.1 |
| 55°   | 12342.8 | 12408.8 | 12569.2 | 12820.1 | 13020.1 | 13237.1 | 13299.4 | 13295.6 | 13201.2 | 13227.7 | 13269.2 |
| 57.5° | 12699.4 | 12797.5 | 13044.6 | 13440.9 | 13848.4 | 14289.9 | 14663.4 | 14942.7 | 15061.5 | 15240.8 | 15199.3 |
| 60°   | 12023.9 | 12180.5 | 12544.7 | 13127.7 | 13933.3 | 14854.0 | 15840.7 | 16804.8 | 17627.4 | 18248.2 | 17891.6 |
| 62.5° | 9844.8  | 10048.6 | 10490.1 | 11237.2 | 12456.0 | 13929.5 | 15818.1 | 18097.2 | 20580.1 | 22078.2 | 21008.4 |
| 65°   | 6160.1  | 6371.4  | 6820.4  | 7620.4  | 9046.7  | 10878.7 | 13440.9 | 17218.0 | 21857.4 | 24115.8 | 21938.6 |
| 67.5° | 2401.8  | 2516.9  | 2760.2  | 3271.5  | 4343.2  | 5973.3  | 8544.9  | 12831.5 | 18380.2 | 20359.4 | 18038.7 |
| 70°   | 1203.7  | 1215.0  | 1260.3  | 1354.7  | 1584.8  | 2058.4  | 3131.9  | 5948.8  | 10541.0 | 12731.5 | 10161.8 |
| 72.5° | 869.8   | 871.7   | 894.3   | 935.8   | 1009.4  | 1115.0  | 1318.8  | 1820.7  | 3428.1  | 5239.4  | 3213.1  |
| 75°   | 666.0   | 673.6   | 686.8   | 709.4   | 749.0   | 801.8   | 875.4   | 1049.0  | 1299.9  | 1507.5  | 1267.9  |
| 77.5° | 513.2   | 528.3   | 537.7   | 558.5   | 583.0   | 618.8   | 639.6   | 705.6   | 820.7   | 864.1   | 850.9   |
| 80°   | 390.5   | 403.8   | 424.5   | 441.5   | 458.5   | 475.4   | 467.9   | 498.1   | 558.5   | 594.3   | 575.4   |
| 82.5° | 249.0   | 264.1   | 324.5   | 339.6   | 347.2   | 358.5   | 345.3   | 347.2   | 373.6   | 396.2   | 373.6   |
| 85°   | 160.4   | 169.8   | 205.7   | 224.5   | 226.4   | 234.0   | 228.3   | 215.1   | 215.1   | 196.2   | 220.7   |
| 87.5° | 73.6    | 75.5    | 92.4    | 109.4   | 113.2   | 101.9   | 100.0   | 96.2    | 77.4    | 73.6    | 79.2    |
| 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°    | 4558.3  | 4558.3  | 4558.3  | 4558.3  | 4558.3  | 4558.3  | 4558.3  | 4558.3  |
| 2.5°  | 4556.4  | 4560.2  | 4562.0  | 4567.7  | 4569.6  | 4569.6  | 4571.5  | 4575.2  |
| 5°    | 4592.2  | 4597.9  | 4599.8  | 4607.3  | 4609.2  | 4607.3  | 4611.1  | 4613.0  |
| 7.5°  | 4656.4  | 4665.8  | 4669.6  | 4677.1  | 4671.5  | 4679.0  | 4680.9  | 4680.9  |
| 10°   | 4750.7  | 4760.1  | 4762.0  | 4769.6  | 4765.8  | 4769.6  | 4769.6  | 4765.8  |
| 12.5° | 4875.2  | 4877.1  | 4871.5  | 4877.1  | 4869.6  | 4873.3  | 4867.7  | 4863.9  |
| 15°   | 5013.0  | 5007.3  | 4994.1  | 4994.1  | 4982.8  | 4984.7  | 4982.8  | 4980.9  |
| 17.5° | 5146.9  | 5135.6  | 5126.2  | 5122.4  | 5113.0  | 5111.1  | 5105.4  | 5105.4  |
| 20°   | 5294.1  | 5288.4  | 5282.8  | 5275.2  | 5265.8  | 5256.3  | 5254.5  | 5258.2  |
| 22.5° | 5471.4  | 5469.5  | 5469.5  | 5465.8  | 5452.6  | 5443.1  | 5437.5  | 5437.5  |
| 25°   | 5709.2  | 5692.2  | 5692.2  | 5690.3  | 5684.6  | 5679.0  | 5667.6  | 5673.3  |
| 27.5° | 5977.1  | 5967.6  | 5975.2  | 5973.3  | 5967.6  | 5967.6  | 5960.1  | 5960.1  |
| 30°   | 6307.2  | 6303.5  | 6314.8  | 6305.4  | 6286.5  | 6284.6  | 6277.1  | 6267.6  |
| 32.5° | 6688.4  | 6684.6  | 6701.6  | 6690.2  | 6660.1  | 6643.1  | 6628.0  | 6620.4  |
| 35°   | 7112.9  | 7114.7  | 7135.5  | 7128.0  | 7094.0  | 7082.7  | 7056.3  | 7052.5  |
| 37.5° | 7577.0  | 7607.2  | 7643.0  | 7650.6  | 7622.3  | 7614.7  | 7586.4  | 7571.3  |
| 40°   | 8122.2  | 8161.9  | 8216.6  | 8229.8  | 8199.6  | 8193.9  | 8154.3  | 8133.6  |
| 42.5° | 8703.4  | 8771.3  | 8839.2  | 8850.5  | 8820.3  | 8790.1  | 8752.4  | 8737.3  |
| 45°   | 9352.4  | 9433.5  | 9522.2  | 9544.8  | 9499.5  | 9463.7  | 9414.6  | 9414.6  |
| 47.5° | 10080.6 | 10182.5 | 10282.5 | 10344.8 | 10303.3 | 10265.5 | 10207.1 | 10169.3 |
| 50°   | 10941.0 | 11080.6 | 11210.8 | 11274.9 | 11208.9 | 11137.2 | 11035.3 | 11001.4 |
| 52.5° | 12020.2 | 12171.1 | 12284.3 | 12250.3 | 12148.5 | 12048.5 | 11937.2 | 11891.9 |
| 55°   | 13397.5 | 13448.4 | 13448.4 | 13320.1 | 13116.3 | 12948.4 | 12773.0 | 12714.5 |
| 57.5° | 15120.0 | 14923.8 | 14621.9 | 14238.9 | 13757.8 | 13339.0 | 13056.0 | 12922.0 |
| 60°   | 17144.5 | 16201.1 | 15135.1 | 14088.0 | 13227.7 | 12518.3 | 12097.5 | 11905.1 |
| 62.5° | 18493.4 | 16025.6 | 13889.9 | 12208.8 | 10971.2 | 10116.5 | 9535.4  | 9309.0  |
| 65°   | 17284.1 | 13365.4 | 10505.2 | 8493.9  | 7144.9  | 6275.2  | 5699.7  | 5488.4  |
| 67.5° | 12659.8 | 8375.1  | 5594.1  | 4009.2  | 2937.6  | 2343.3  | 2107.4  | 2009.3  |
| 70°   | 5682.7  | 2948.9  | 1807.5  | 1411.3  | 1216.9  | 1116.9  | 1073.5  | 1058.4  |
| 72.5° | 1713.1  | 1239.6  | 1045.2  | 943.4   | 866.0   | 816.9   | 781.1   | 777.3   |
| 75°   | 1033.9  | 860.3   | 764.1   | 703.7   | 654.7   | 615.1   | 596.2   | 590.5   |
| 77.5° | 722.6   | 632.0   | 586.8   | 543.4   | 505.6   | 475.4   | 458.5   | 445.3   |
| 80°   | 507.5   | 464.1   | 443.4   | 418.8   | 394.3   | 366.0   | 341.5   | 330.2   |
| 82.5° | 339.6   | 330.2   | 330.2   | 315.1   | 294.3   | 267.9   | 218.9   | 207.5   |
| 85°   | 218.9   | 217.0   | 220.7   | 215.1   | 200.0   | 171.7   | 141.5   | 134.0   |
| 87.5° | 101.9   | 103.8   | 115.1   | 113.2   | 109.4   | 90.6    | 71.7    | 67.9    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)