

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: P191046

Luminaire Tested: **GAN-AF-08-LED-U-SL2-800-HSS-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191046  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
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-SL2-800-HSS-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32656.7 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

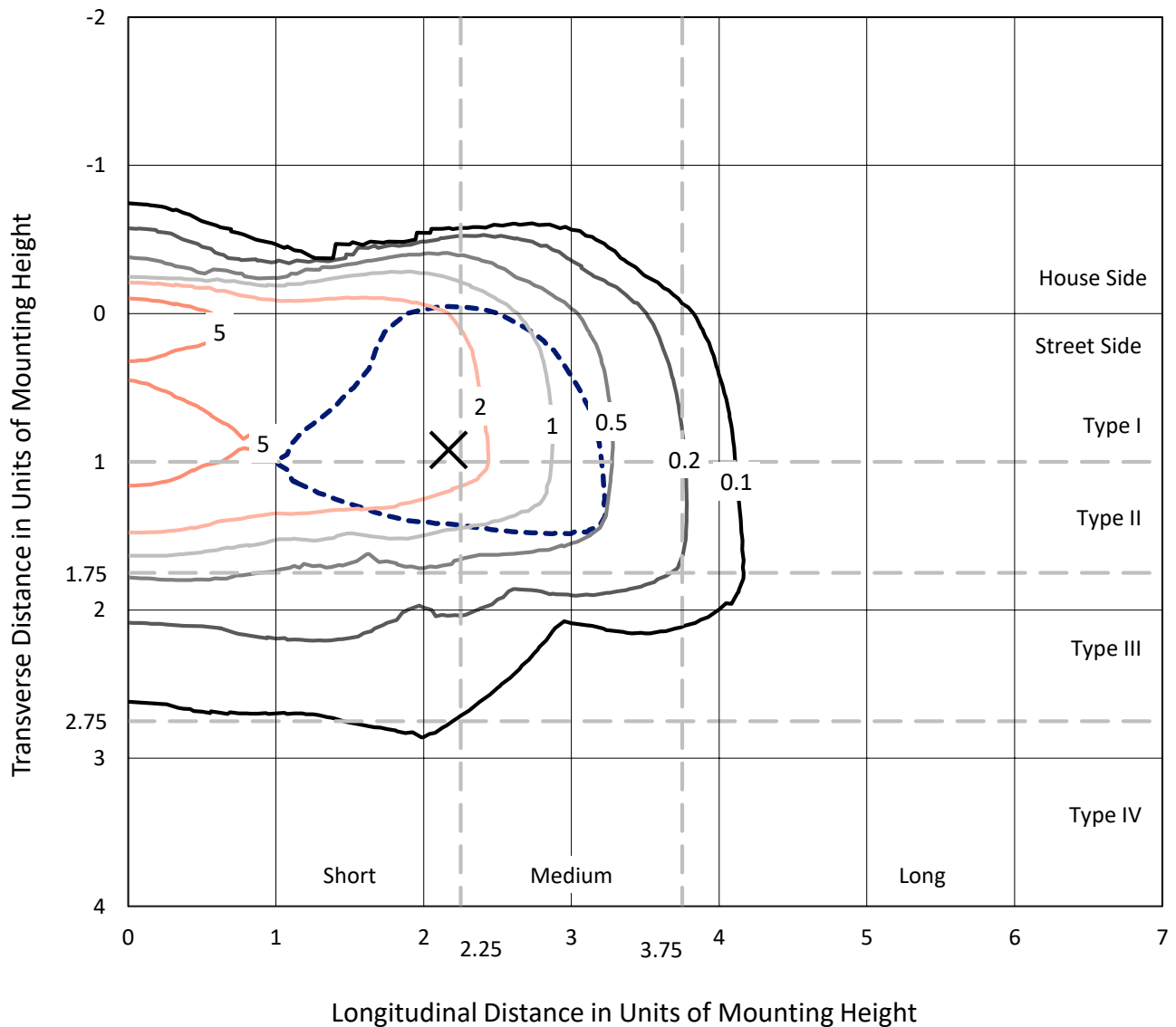
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

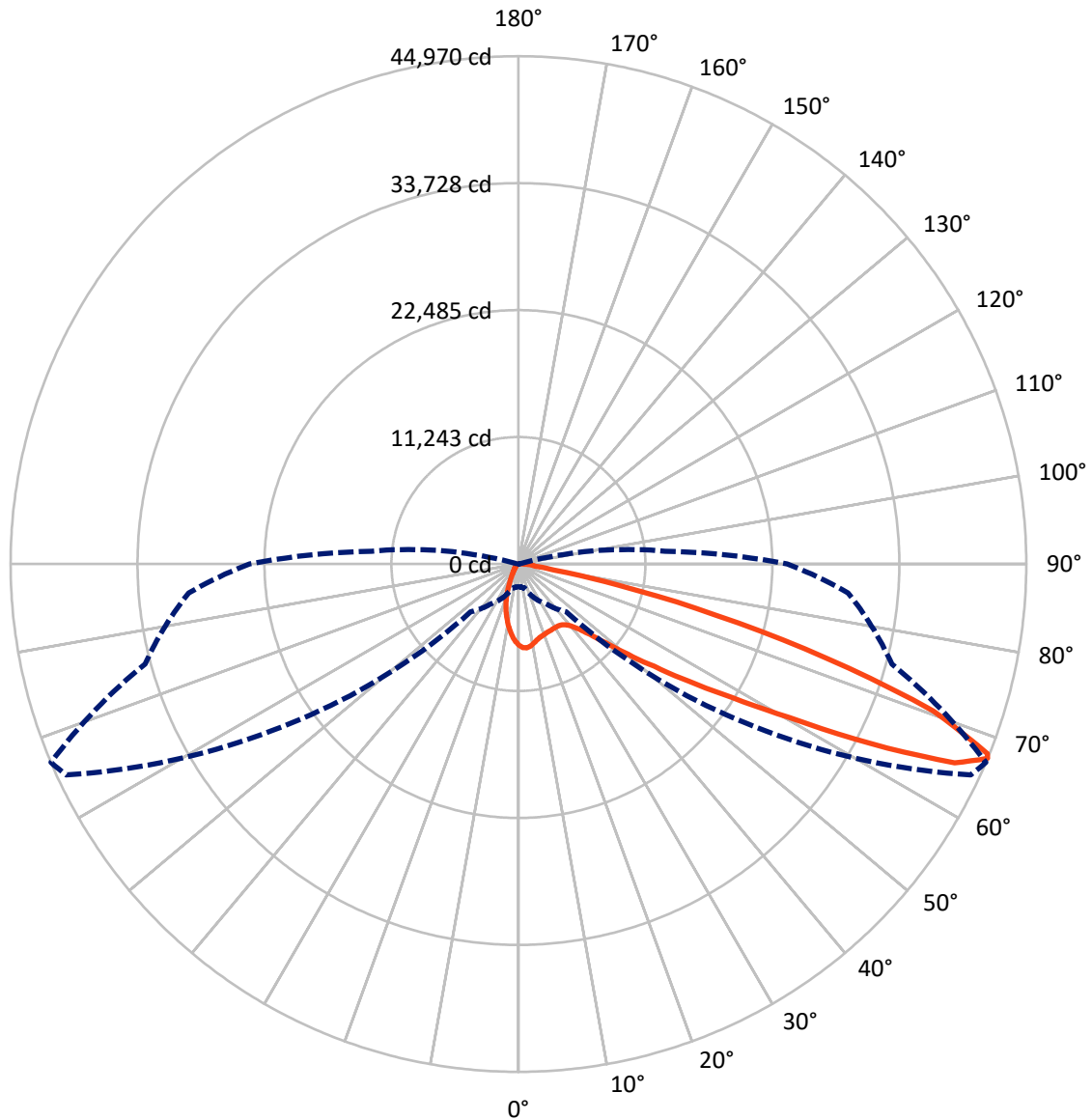


Based on 30 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3390.7   | 0.0    | 3390.7  |
|                    | % Fixture | 10.4     | 0.0    | 10.4    |
| <b>Street Side</b> | Lumens    | 29265.9  | 0.0    | 29265.9 |
|                    | % Fixture | 89.6     | 0.0    | 89.6    |
| <b>Total</b>       | Lumens    | 32656.7  | 0.0    | 32656.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 586.0   | 1.8       |
| 10°-20°   | 1247.3  | 3.8       |
| 20°-30°   | 1813.4  | 5.6       |
| 30°-40°   | 2829.0  | 8.7       |
| 40°-50°   | 5011.4  | 15.3      |
| 50°-60°   | 7930.1  | 24.3      |
| 60°-70°   | 9082.8  | 27.8      |
| 70°-80°   | 3767.5  | 11.5      |
| 80°-90°   | 389.2   | 1.2       |
| 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°    | 32656.7 | 100.0     |
| 0°-180°   | 32656.7 | 100.0     |



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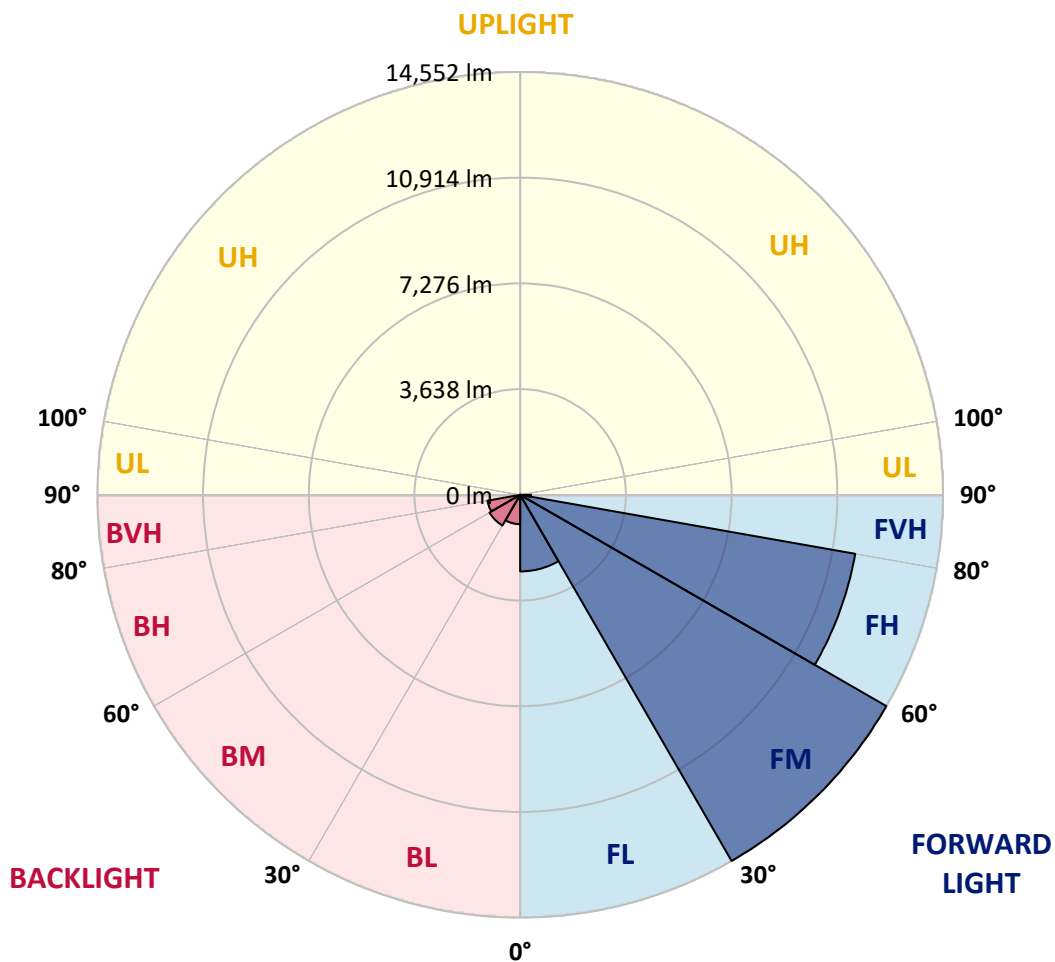
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2634.9  | 8.1       |                         |      |          |
| FM (30°-60°)   | 14551.9 | 44.6      |                         |      |          |
| FH (60°-80°)   | 11707.5 | 35.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 371.6   | 1.1       |                         |      | G3/500   |
| BL (0°-30°)    | 1011.8  | 3.1       | B3/2500                 |      |          |
| BM (30°-60°)   | 1218.6  | 3.7       | B2/2500                 |      |          |
| BH (60°-80°)   | 1142.8  | 3.5       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 17.5    | 0.1       |                         |      | G1/100   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7202.0  | 7202.0  | 7202.0  | 7202.0  | 7202.0  | 7202.0  | 7202.0  | 7202.0  | 7202.0  | 7202.0  | 7202.0  |
| 2.5°  | 7445.9  | 7461.1  | 7459.2  | 7470.6  | 7497.2  | 7499.2  | 7472.5  | 7421.1  | 7409.6  | 7342.9  | 7226.7  |
| 5°    | 6866.8  | 6910.5  | 6937.2  | 7045.8  | 7167.7  | 7314.4  | 7424.9  | 7464.9  | 7459.2  | 7411.5  | 7236.3  |
| 7.5°  | 6205.8  | 6249.6  | 6280.1  | 6407.7  | 6569.6  | 6821.0  | 7108.7  | 7344.9  | 7365.9  | 7417.2  | 7228.7  |
| 10°   | 5765.8  | 5773.4  | 5815.3  | 5937.2  | 6106.7  | 6363.9  | 6706.8  | 7120.1  | 7183.0  | 7371.5  | 7209.7  |
| 12.5° | 5403.8  | 5409.6  | 5464.8  | 5596.3  | 5777.2  | 6036.2  | 6396.3  | 6874.3  | 6971.5  | 7314.4  | 7205.8  |
| 15°   | 5146.8  | 5167.6  | 5217.3  | 5354.3  | 5546.7  | 5803.9  | 6173.4  | 6693.5  | 6809.6  | 7293.4  | 7240.1  |
| 17.5° | 5061.0  | 5083.9  | 5099.1  | 5198.1  | 5373.5  | 5624.8  | 6003.9  | 6575.3  | 6706.8  | 7304.9  | 7306.7  |
| 20°   | 5150.6  | 5167.6  | 5133.4  | 5158.1  | 5266.8  | 5491.5  | 5861.0  | 6474.4  | 6630.6  | 7318.2  | 7392.5  |
| 22.5° | 5483.8  | 5491.5  | 5398.2  | 5289.6  | 5270.5  | 5394.3  | 5748.7  | 6394.4  | 6562.0  | 7354.4  | 7493.4  |
| 25°   | 6055.4  | 6042.0  | 5889.6  | 5655.3  | 5434.3  | 5377.2  | 5682.0  | 6344.9  | 6527.8  | 7392.5  | 7598.2  |
| 27.5° | 6744.8  | 6763.9  | 6554.4  | 6213.4  | 5792.5  | 5491.5  | 5672.5  | 6323.9  | 6512.5  | 7419.2  | 7689.6  |
| 30°   | 7582.9  | 7609.6  | 7369.6  | 6941.0  | 6337.2  | 5773.4  | 5760.0  | 6320.1  | 6502.9  | 7402.0  | 7697.3  |
| 32.5° | 8438.2  | 8470.5  | 8282.0  | 7840.1  | 7064.9  | 6245.8  | 5958.2  | 6362.0  | 6522.0  | 7342.9  | 7653.4  |
| 35°   | 9333.5  | 9379.1  | 9253.5  | 8874.4  | 8051.5  | 6927.7  | 6306.8  | 6489.6  | 6611.5  | 7337.2  | 7609.6  |
| 37.5° | 10569.6 | 10611.6 | 10375.4 | 9973.5  | 9245.8  | 7842.0  | 6866.8  | 6729.6  | 6823.0  | 7428.7  | 7621.1  |
| 40°   | 12415.5 | 12409.7 | 11800.1 | 11184.9 | 10558.3 | 9003.9  | 7653.4  | 7163.9  | 7211.5  | 7704.9  | 7762.0  |
| 42.5° | 14426.9 | 14417.4 | 13516.4 | 12581.2 | 12015.4 | 10434.4 | 8687.7  | 7914.4  | 7882.0  | 8213.5  | 8127.8  |
| 45°   | 15977.4 | 15975.4 | 15240.2 | 14186.9 | 13769.7 | 12076.3 | 10024.9 | 8958.2  | 8908.7  | 9040.1  | 8802.0  |
| 47.5° | 16638.3 | 16649.8 | 16280.3 | 15539.2 | 15714.5 | 14297.4 | 11710.6 | 10470.6 | 10396.4 | 10343.0 | 9981.1  |
| 50°   | 16124.1 | 16146.9 | 16177.4 | 16032.6 | 17141.2 | 17282.1 | 13971.7 | 12602.0 | 12565.9 | 12327.8 | 11762.1 |
| 52.5° | 14444.0 | 14560.2 | 14918.3 | 15377.4 | 17636.4 | 20146.9 | 17516.4 | 15249.7 | 15055.5 | 14802.1 | 14179.2 |
| 55°   | 11613.5 | 11741.1 | 12421.1 | 13535.4 | 16899.2 | 22028.8 | 22484.2 | 18663.1 | 18339.3 | 17583.1 | 16684.0 |
| 57.5° | 7685.8  | 7883.9  | 8870.6  | 10287.7 | 14758.3 | 22331.7 | 27440.3 | 23400.3 | 22272.7 | 20202.2 | 19188.8 |
| 60°   | 4234.3  | 4424.8  | 5495.3  | 6779.1  | 10659.1 | 20834.5 | 30773.7 | 29568.0 | 27575.6 | 23129.8 | 22230.8 |
| 62.5° | 2607.7  | 2710.5  | 3501.0  | 4695.3  | 6392.4  | 16444.0 | 31463.3 | 37318.6 | 35011.9 | 26899.4 | 25905.1 |
| 65°   | 2076.2  | 2120.1  | 2506.7  | 3838.1  | 4582.9  | 9781.0  | 29236.5 | 43227.2 | 42457.8 | 31463.3 | 29194.7 |
| 67°   | 2015.3  | 2032.4  | 2215.3  | 3295.3  | 4320.0  | 5996.2  | 24493.6 | 44189.2 | 44970.1 | 34225.3 | 29297.5 |
| 67.5° | 2028.6  | 2047.6  | 2221.0  | 3144.8  | 4312.5  | 5510.5  | 22859.4 | 43810.1 | 44796.9 | 34444.3 | 28842.3 |
| 70°   | 1956.2  | 2015.3  | 2542.9  | 3142.9  | 4101.0  | 4579.1  | 13689.7 | 37958.6 | 38985.3 | 32004.2 | 24472.8 |
| 72.5° | 693.4   | 697.1   | 1099.1  | 2542.9  | 4459.1  | 4628.6  | 6874.3  | 27827.0 | 28587.1 | 24482.3 | 17644.1 |
| 75°   | 411.4   | 350.5   | 365.7   | 723.8   | 4261.0  | 4495.3  | 3965.8  | 17781.2 | 18065.0 | 14028.7 | 8935.4  |
| 77.5° | 283.8   | 247.7   | 255.2   | 320.0   | 1622.9  | 4432.4  | 3150.5  | 9272.5  | 8969.6  | 4920.1  | 1902.9  |
| 80°   | 161.9   | 142.9   | 152.4   | 280.0   | 590.4   | 4135.3  | 2971.5  | 3760.1  | 3205.7  | 834.3   | 525.7   |
| 82.5° | 85.7    | 72.4    | 87.7    | 230.5   | 411.4   | 2577.2  | 2977.2  | 1817.2  | 1440.0  | 281.9   | 358.1   |
| 85°   | 30.5    | 24.8    | 41.9    | 158.1   | 274.3   | 790.5   | 2760.0  | 1527.7  | 1200.0  | 137.2   | 272.4   |
| 87.5° | 5.7     | 5.7     | 17.2    | 64.8    | 110.5   | 241.9   | 1632.4  | 906.6   | 607.6   | 81.9    | 186.7   |
| 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):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7202.0  | 7202.0  | 7202.0 | 7202.0 | 7202.0 | 7202.0 | 7202.0 | 7202.0 | 7202.0 | 7202.0 | 7202.0 |
| 2.5°  | 7179.2  | 7097.2  | 6986.8 | 6851.5 | 6691.5 | 6550.6 | 6445.8 | 6337.2 | 6314.4 | 6276.3 | 6270.6 |
| 5°    | 7131.5  | 6990.5  | 6716.3 | 6402.0 | 6066.7 | 5763.9 | 5518.2 | 5299.1 | 5202.0 | 5118.1 | 5108.6 |
| 7.5°  | 7061.0  | 6849.6  | 6382.9 | 5876.2 | 5352.5 | 4876.3 | 4472.4 | 4186.7 | 3923.8 | 3798.1 | 3779.1 |
| 10°   | 6979.2  | 6676.3  | 6007.7 | 5304.8 | 4581.0 | 3908.6 | 3308.6 | 2805.7 | 2501.0 | 2320.1 | 2297.1 |
| 12.5° | 6903.0  | 6506.8  | 5624.8 | 4712.4 | 3750.5 | 2851.5 | 2080.1 | 1600.0 | 1280.0 | 1150.5 | 1135.3 |
| 15°   | 6866.8  | 6369.6  | 5266.8 | 4106.7 | 2882.0 | 1815.2 | 1137.1 | 880.0  | 775.3  | 744.8  | 742.9  |
| 17.5° | 6863.0  | 6253.4  | 4916.3 | 3480.1 | 2019.1 | 1055.3 | 740.9  | 676.2  | 655.2  | 647.6  | 647.6  |
| 20°   | 6861.0  | 6142.9  | 4565.7 | 2830.5 | 1282.0 | 702.9  | 617.1  | 601.9  | 586.7  | 577.1  | 577.1  |
| 22.5° | 6882.0  | 6043.9  | 4200.0 | 2167.6 | 807.6  | 569.6  | 542.9  | 527.6  | 508.6  | 495.2  | 493.4  |
| 25°   | 6903.0  | 5967.7  | 3826.8 | 1542.9 | 584.8  | 495.2  | 468.6  | 447.6  | 420.9  | 403.9  | 401.9  |
| 27.5° | 6906.8  | 5872.5  | 3426.7 | 1032.4 | 489.5  | 432.4  | 398.1  | 365.7  | 335.2  | 318.1  | 316.2  |
| 30°   | 6849.6  | 5712.5  | 2982.9 | 697.1  | 432.4  | 375.2  | 329.5  | 295.2  | 266.7  | 253.4  | 253.4  |
| 32.5° | 6737.3  | 5514.3  | 2495.3 | 525.7  | 384.7  | 321.9  | 272.4  | 240.0  | 221.0  | 215.2  | 213.3  |
| 35°   | 6636.3  | 5301.0  | 1994.3 | 445.7  | 344.7  | 272.4  | 222.9  | 201.9  | 190.5  | 188.5  | 186.7  |
| 37.5° | 6577.3  | 5129.6  | 1523.8 | 403.9  | 306.7  | 228.5  | 188.5  | 173.3  | 167.7  | 163.8  | 165.7  |
| 40°   | 6623.0  | 4986.8  | 1125.8 | 369.5  | 268.5  | 190.5  | 160.0  | 152.4  | 146.7  | 144.7  | 144.7  |
| 42.5° | 6823.0  | 4961.9  | 836.2  | 339.0  | 232.4  | 158.1  | 139.0  | 133.3  | 129.5  | 127.7  | 129.5  |
| 45°   | 7348.7  | 5114.3  | 649.6  | 310.5  | 196.2  | 133.3  | 118.0  | 116.2  | 114.3  | 114.3  | 114.3  |
| 47.5° | 8139.2  | 5428.6  | 540.9  | 278.1  | 163.8  | 114.3  | 102.9  | 101.0  | 99.0   | 101.0  | 101.0  |
| 50°   | 9478.3  | 6003.9  | 483.9  | 245.7  | 135.2  | 97.2   | 87.7   | 87.7   | 87.7   | 87.7   | 89.5   |
| 52.5° | 11514.4 | 7135.3  | 445.7  | 213.3  | 110.5  | 81.9   | 74.3   | 74.3   | 76.2   | 76.2   | 78.1   |
| 55°   | 13783.0 | 8636.3  | 411.4  | 181.0  | 93.3   | 68.5   | 61.0   | 62.8   | 64.8   | 66.7   | 66.7   |
| 57.5° | 16244.0 | 10299.2 | 382.9  | 148.5  | 80.0   | 55.2   | 51.5   | 53.3   | 55.2   | 59.0   | 59.0   |
| 60°   | 19213.6 | 12099.3 | 340.9  | 116.2  | 66.7   | 43.8   | 40.0   | 43.8   | 49.5   | 53.3   | 55.2   |
| 62.5° | 22474.6 | 13840.2 | 287.7  | 91.5   | 55.2   | 34.3   | 32.4   | 40.0   | 47.7   | 51.5   | 53.3   |
| 65°   | 24703.2 | 14386.9 | 221.0  | 74.3   | 41.9   | 24.8   | 26.7   | 36.2   | 45.7   | 51.5   | 51.5   |
| 67°   | 23800.3 | 13044.0 | 181.0  | 62.8   | 34.3   | 19.0   | 24.8   | 36.2   | 45.7   | 49.5   | 51.5   |
| 67.5° | 23173.6 | 12518.3 | 173.3  | 61.0   | 32.4   | 19.0   | 24.8   | 36.2   | 45.7   | 51.5   | 51.5   |
| 70°   | 18855.5 | 9404.0  | 144.7  | 45.7   | 26.7   | 17.2   | 21.0   | 34.3   | 43.8   | 49.5   | 49.5   |
| 72.5° | 13101.1 | 5798.2  | 129.5  | 32.4   | 22.8   | 15.2   | 19.0   | 32.4   | 41.9   | 47.7   | 49.5   |
| 75°   | 6228.6  | 2099.1  | 110.5  | 24.8   | 21.0   | 13.3   | 17.2   | 32.4   | 41.9   | 47.7   | 47.7   |
| 77.5° | 1270.5  | 487.6   | 89.5   | 21.0   | 17.2   | 13.3   | 15.2   | 30.5   | 40.0   | 45.7   | 45.7   |
| 80°   | 417.2   | 188.5   | 66.7   | 19.0   | 17.2   | 13.3   | 15.2   | 28.5   | 40.0   | 43.8   | 45.7   |
| 82.5° | 301.0   | 95.2    | 43.8   | 19.0   | 17.2   | 13.3   | 13.3   | 28.5   | 38.1   | 43.8   | 43.8   |
| 85°   | 230.5   | 66.7    | 28.5   | 19.0   | 17.2   | 13.3   | 13.3   | 26.7   | 36.2   | 41.9   | 41.9   |
| 87.5° | 152.4   | 26.7    | 22.8   | 19.0   | 17.2   | 13.3   | 13.3   | 26.7   | 34.3   | 40.0   | 41.9   |
| 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)