

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: P267080

Luminaire Tested: **GAN-AF-07-LED-U-SL3-7027-HSS-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P267080  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-07-LED-U-SL3-7027-HSS-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31250.4 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G5

Input Watts (W): 391  
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

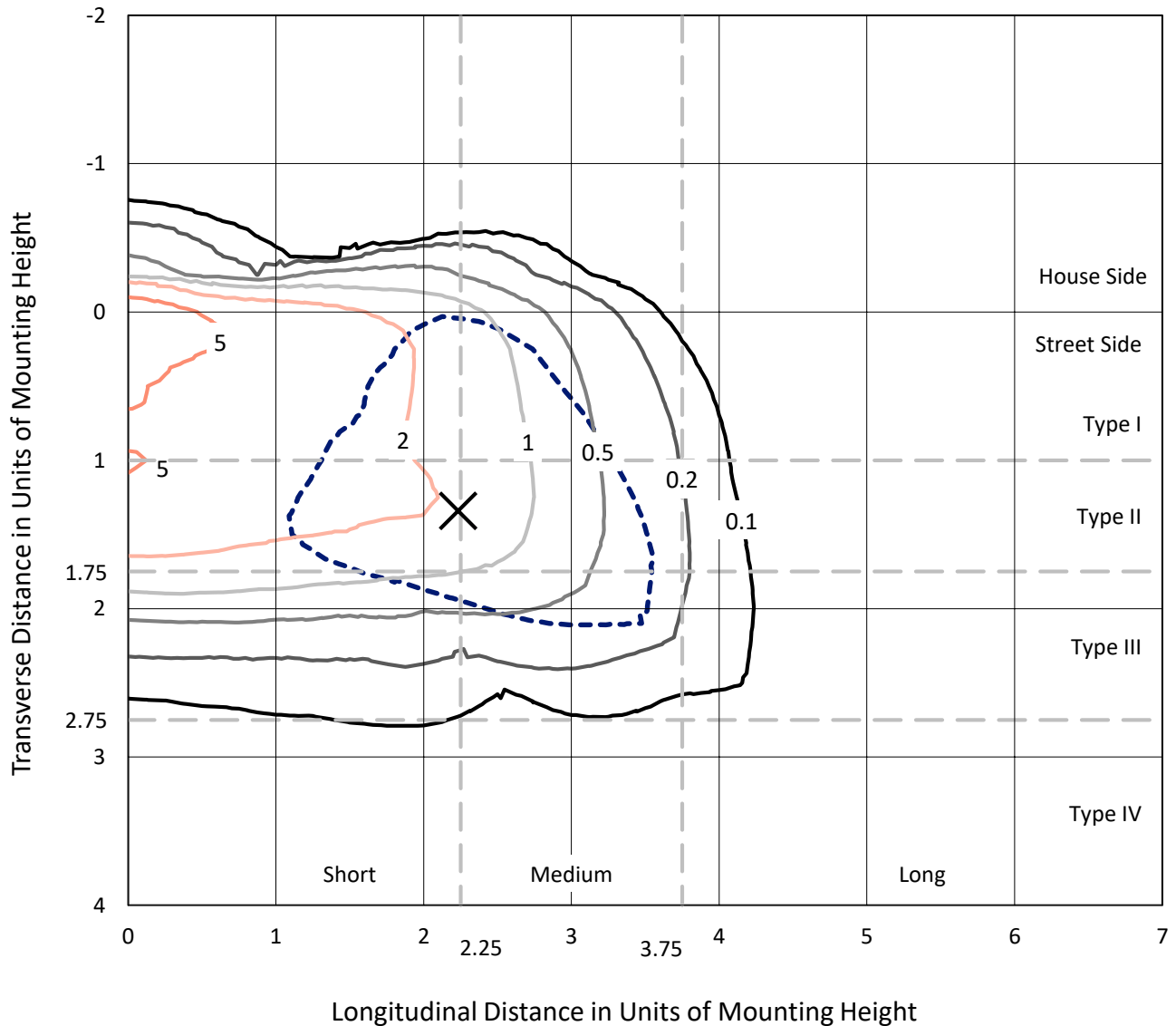


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

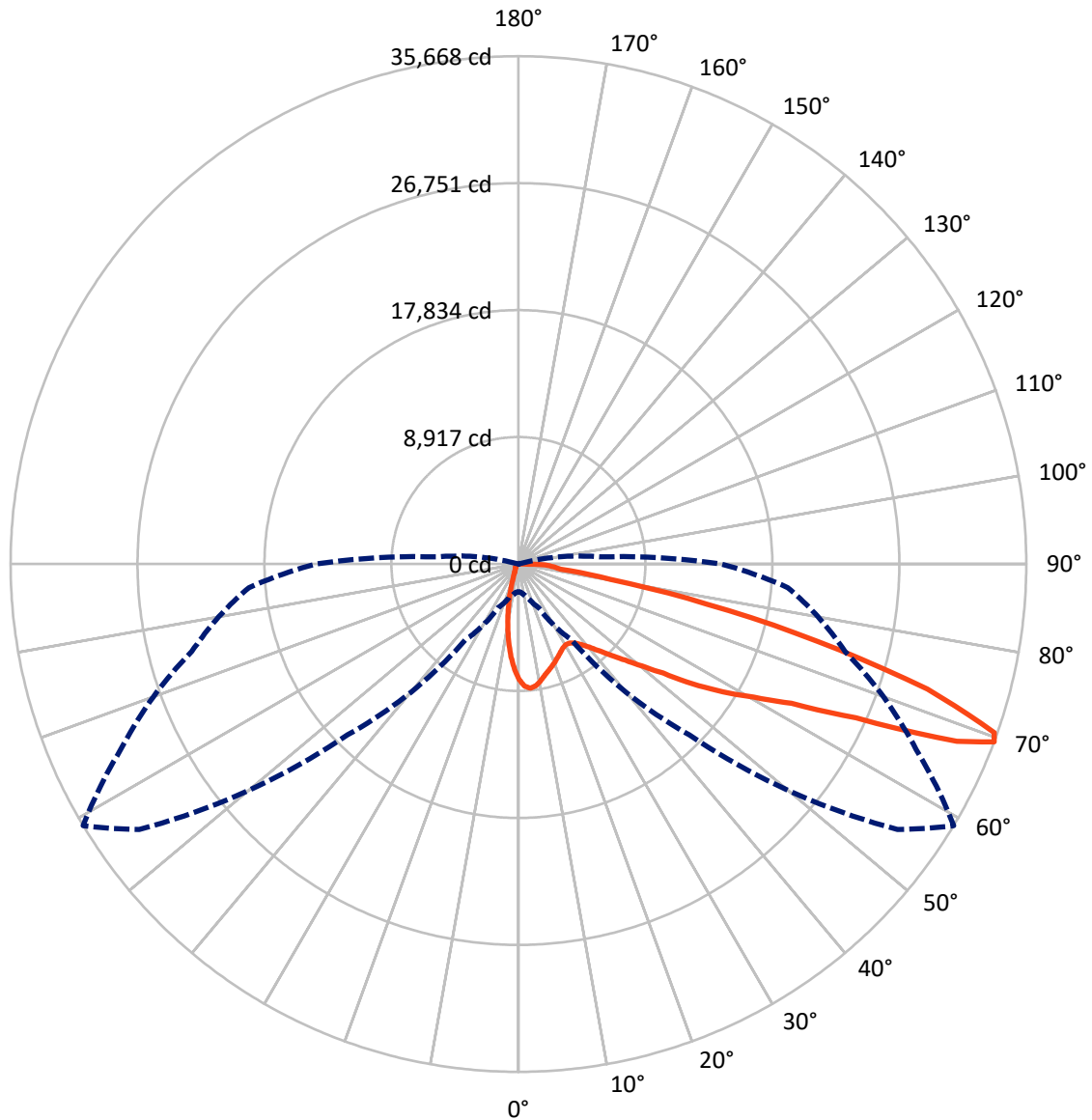


Based on 30 foot mounting height. Maximum calculated value = 9.1 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2544.9   | 0.0    | 2544.9  |
|                    | % Fixture | 8.1      | 0.0    | 8.1     |
| <b>Street Side</b> | Lumens    | 28705.4  | 0.0    | 28705.4 |
|                    | % Fixture | 91.9     | 0.0    | 91.9    |
| <b>Total</b>       | Lumens    | 31250.4  | 0.0    | 31250.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 660.2   | 2.1       |
| 10°-20°   | 1364.2  | 4.4       |
| 20°-30°   | 1835.8  | 5.9       |
| 30°-40°   | 2665.4  | 8.5       |
| 40°-50°   | 4438.1  | 14.2      |
| 50°-60°   | 6923.4  | 22.2      |
| 60°-70°   | 8567.2  | 27.4      |
| 70°-80°   | 4341.7  | 13.9      |
| 80°-90°   | 454.3   | 1.5       |
| 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°    | 31250.4 | 100.0     |
| 0°-180°   | 31250.4 | 100.0     |



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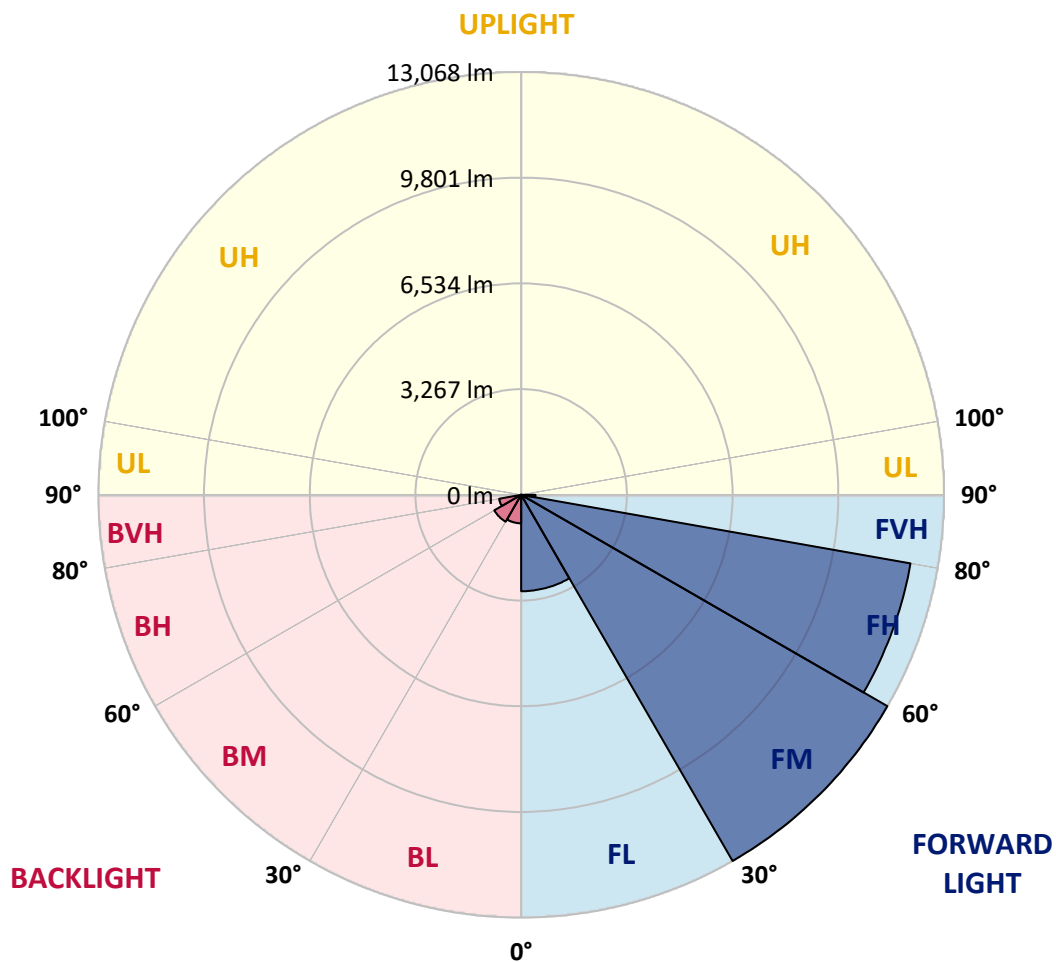
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2979.4  | 9.5       |                         |      |         |
| FM   | (30°-60°)   | 13068.0 | 41.8      |                         |      |         |
| FH   | (60°-80°)   | 12217.8 | 39.1      |                         |      | G5      |
| FVH  | (80°-90°)   | 440.3   | 1.4       |                         |      | G3/500  |
| BL   | (0°-30°)    | 880.9   | 2.8       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 958.9   | 3.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 691.1   | 2.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 14.0    | 0.0       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8134.1  | 8134.1  | 8134.1  | 8134.1  | 8134.1  | 8134.1  | 8134.1  | 8134.1  | 8134.1  | 8134.1  | 8134.1  |
| 2.5°  | 8915.0  | 8911.5  | 8872.6  | 8855.0  | 8823.2  | 8756.0  | 8651.8  | 8597.0  | 8508.7  | 8355.0  | 8148.2  |
| 5°    | 8833.8  | 8876.2  | 8899.1  | 8900.9  | 8923.9  | 8899.1  | 8805.5  | 8759.6  | 8637.7  | 8390.3  | 8019.2  |
| 7.5°  | 8282.6  | 8298.5  | 8363.8  | 8420.4  | 8529.9  | 8634.1  | 8667.7  | 8648.3  | 8575.8  | 8310.8  | 7817.7  |
| 10°   | 7692.2  | 7708.1  | 7785.9  | 7860.1  | 8008.6  | 8169.4  | 8339.1  | 8374.4  | 8404.5  | 8197.7  | 7623.3  |
| 12.5° | 7183.3  | 7199.2  | 7278.7  | 7376.0  | 7549.1  | 7747.1  | 8010.4  | 8068.7  | 8201.2  | 8089.9  | 7467.8  |
| 15°   | 6745.2  | 6752.2  | 6830.0  | 6950.0  | 7156.8  | 7411.2  | 7710.0  | 7803.5  | 8006.9  | 8013.9  | 7331.7  |
| 17.5° | 6372.2  | 6390.0  | 6437.7  | 6552.4  | 6778.7  | 7093.1  | 7441.3  | 7575.6  | 7814.1  | 7950.3  | 7199.2  |
| 20°   | 6144.2  | 6162.0  | 6160.1  | 6223.7  | 6427.1  | 6762.8  | 7172.7  | 7333.6  | 7623.3  | 7884.9  | 7080.8  |
| 22.5° | 6100.1  | 6100.1  | 6054.1  | 6045.4  | 6165.4  | 6446.4  | 6893.6  | 7089.7  | 7451.9  | 7856.5  | 6997.7  |
| 25°   | 6257.4  | 6250.2  | 6135.5  | 6041.8  | 6047.1  | 6215.0  | 6623.2  | 6856.5  | 7307.1  | 7876.0  | 6953.6  |
| 27.5° | 6589.5  | 6580.8  | 6435.8  | 6257.4  | 6114.3  | 6112.4  | 6418.2  | 6669.0  | 7192.2  | 7968.0  | 6971.2  |
| 30°   | 7049.0  | 7045.4  | 6888.3  | 6663.7  | 6404.0  | 6165.4  | 6347.5  | 6575.5  | 7117.9  | 8134.1  | 7011.9  |
| 32.5° | 7551.0  | 7545.7  | 7427.1  | 7190.5  | 6861.8  | 6404.0  | 6421.8  | 6612.6  | 7139.2  | 8355.0  | 7110.9  |
| 35°   | 8082.8  | 8074.0  | 8022.8  | 7816.0  | 7453.6  | 6844.0  | 6665.6  | 6814.1  | 7273.4  | 8685.4  | 7305.2  |
| 37.5° | 8658.9  | 8667.7  | 8704.8  | 8506.9  | 8127.0  | 7460.8  | 7073.8  | 7174.6  | 7543.8  | 9134.2  | 7621.6  |
| 40°   | 9508.9  | 9507.1  | 9519.5  | 9259.6  | 8893.8  | 8215.3  | 7644.5  | 7676.3  | 7996.3  | 9729.7  | 8102.3  |
| 42.5° | 11051.6 | 10943.7 | 10616.9 | 10086.7 | 9719.1  | 9077.7  | 8363.8  | 8330.3  | 8549.3  | 10466.6 | 8775.5  |
| 45°   | 13124.3 | 12894.6 | 12046.5 | 11030.4 | 10560.3 | 10049.6 | 9249.0  | 9141.3  | 9280.8  | 11351.9 | 9606.0  |
| 47.5° | 14907.5 | 14668.9 | 13468.9 | 12012.9 | 11452.8 | 10972.0 | 10286.4 | 10092.0 | 10137.9 | 12343.3 | 10659.3 |
| 50°   | 15513.5 | 15396.9 | 14348.9 | 12868.1 | 12316.8 | 12133.0 | 11489.9 | 11253.0 | 11187.6 | 13490.1 | 11880.4 |
| 52.5° | 15303.3 | 15294.5 | 14596.4 | 13423.1 | 13108.4 | 13334.7 | 13004.3 | 12730.3 | 12489.9 | 14698.8 | 13122.6 |
| 55°   | 14965.8 | 15009.9 | 14697.1 | 13908.9 | 13898.3 | 14432.0 | 15075.3 | 14847.4 | 14151.1 | 16011.8 | 14193.5 |
| 57.5° | 14034.4 | 14223.6 | 14640.5 | 14827.9 | 15262.7 | 15808.6 | 16800.0 | 16934.3 | 16110.8 | 17017.3 | 15082.4 |
| 60°   | 11387.4 | 11802.7 | 13166.7 | 14960.5 | 17020.8 | 18381.6 | 18881.7 | 18996.5 | 17718.9 | 17853.2 | 16282.1 |
| 62.5° | 8082.8  | 8506.9  | 10236.9 | 13271.0 | 17047.3 | 21762.0 | 21983.0 | 21532.4 | 19489.5 | 19091.9 | 18351.6 |
| 65°   | 4290.6  | 4617.5  | 6031.2  | 9579.5  | 14780.2 | 22546.6 | 27406.2 | 26063.2 | 22613.8 | 21528.8 | 21025.2 |
| 67.5° | 2194.7  | 2293.7  | 2855.6  | 4688.2  | 10160.9 | 20026.8 | 32267.6 | 33212.9 | 27998.3 | 23946.2 | 20896.2 |
| 69°   | 1942.0  | 2000.3  | 2373.2  | 3389.3  | 6506.6  | 16962.5 | 32504.4 | 35667.6 | 30816.7 | 23744.8 | 18989.5 |
| 70°   | 1880.2  | 1931.4  | 2270.7  | 3067.7  | 5085.8  | 14225.3 | 31597.8 | 35451.9 | 31537.8 | 22977.8 | 17565.2 |
| 72.5° | 1595.7  | 1639.9  | 2021.5  | 2710.7  | 4133.3  | 7061.3  | 25667.5 | 30040.9 | 28300.4 | 19141.4 | 12714.4 |
| 75°   | 1067.4  | 1212.3  | 1940.2  | 2541.1  | 3845.3  | 4011.3  | 16921.9 | 21709.0 | 20166.3 | 12910.6 | 6623.2  |
| 77.5° | 256.2   | 275.7   | 547.7   | 2021.5  | 3516.5  | 3530.7  | 8703.0  | 13495.4 | 11007.4 | 4601.6  | 1565.7  |
| 80°   | 137.8   | 132.5   | 153.7   | 401.2   | 3274.5  | 3313.4  | 3917.7  | 6550.7  | 3930.1  | 763.4   | 515.9   |
| 82.5° | 97.1    | 91.8    | 99.0    | 167.9   | 1030.3  | 3018.2  | 2834.4  | 2965.2  | 1629.3  | 293.3   | 231.6   |
| 85°   | 35.4    | 33.5    | 54.7    | 152.0   | 323.4   | 1735.3  | 2912.2  | 2445.6  | 1320.0  | 134.2   | 169.6   |
| 87.5° | 12.3    | 10.6    | 21.2    | 83.1    | 99.0    | 738.6   | 1797.1  | 1848.4  | 519.5   | 81.2    | 79.5    |
| 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°    | 8134.1  | 8134.1 | 8134.1 | 8134.1 | 8134.1 | 8134.1 | 8134.1 | 8134.1 | 8134.1 | 8134.1 | 8134.1 |
| 2.5°  | 8061.6  | 7952.1 | 7750.5 | 7543.8 | 7352.9 | 7123.2 | 7008.3 | 6895.3 | 6847.6 | 6830.0 | 6746.9 |
| 5°    | 7828.3  | 7642.8 | 7215.1 | 6785.7 | 6390.0 | 5969.2 | 5691.9 | 5469.2 | 5338.4 | 5274.8 | 5174.1 |
| 7.5°  | 7529.8  | 7225.7 | 6577.2 | 5914.5 | 5297.8 | 4690.0 | 4239.3 | 3893.0 | 3654.3 | 3539.5 | 3435.3 |
| 10°   | 7239.9  | 6835.3 | 5912.7 | 5009.8 | 4172.2 | 3366.4 | 2744.3 | 2293.7 | 2005.6 | 1873.1 | 1788.3 |
| 12.5° | 6980.1  | 6455.3 | 5271.3 | 4128.0 | 3076.5 | 2132.9 | 1500.3 | 1141.6 | 963.2  | 901.2  | 871.1  |
| 15°   | 6748.6  | 6105.4 | 4665.2 | 3290.4 | 2083.3 | 1219.3 | 820.0  | 698.1  | 669.7  | 669.7  | 666.3  |
| 17.5° | 6529.5  | 5762.5 | 4080.3 | 2504.0 | 1307.7 | 745.8  | 623.9  | 608.0  | 608.0  | 615.0  | 615.0  |
| 20°   | 6319.1  | 5435.6 | 3514.8 | 1797.1 | 823.4  | 592.1  | 563.6  | 560.2  | 563.6  | 572.5  | 572.5  |
| 22.5° | 6138.9  | 5138.8 | 2986.4 | 1233.5 | 611.4  | 533.7  | 519.5  | 514.2  | 515.9  | 521.2  | 524.8  |
| 25°   | 6004.7  | 4887.9 | 2488.0 | 835.9  | 526.5  | 486.0  | 470.1  | 461.2  | 454.2  | 454.2  | 457.6  |
| 27.5° | 5919.8  | 4675.8 | 2005.6 | 608.0  | 473.5  | 441.7  | 417.1  | 402.9  | 387.0  | 378.1  | 381.7  |
| 30°   | 5857.9  | 4474.4 | 1553.3 | 496.6  | 424.1  | 392.3  | 360.5  | 337.6  | 314.5  | 303.9  | 307.5  |
| 32.5° | 5835.0  | 4311.8 | 1161.0 | 438.3  | 380.0  | 344.6  | 305.8  | 275.7  | 250.9  | 242.2  | 243.9  |
| 35°   | 5896.8  | 4182.8 | 849.9  | 395.9  | 344.6  | 300.5  | 256.2  | 222.7  | 203.2  | 197.9  | 199.8  |
| 37.5° | 6059.4  | 4113.9 | 636.2  | 360.5  | 312.8  | 263.4  | 213.8  | 181.9  | 169.6  | 169.6  | 171.3  |
| 40°   | 6366.9  | 4112.1 | 510.6  | 335.7  | 284.6  | 228.0  | 176.6  | 153.7  | 146.7  | 150.1  | 152.0  |
| 42.5° | 6815.8  | 4205.8 | 445.3  | 312.8  | 259.8  | 194.5  | 146.7  | 130.8  | 128.9  | 132.5  | 134.2  |
| 45°   | 7429.0  | 4377.1 | 409.9  | 293.3  | 233.3  | 162.6  | 123.6  | 113.0  | 113.0  | 118.3  | 120.2  |
| 47.5° | 8180.0  | 4628.1 | 380.0  | 274.0  | 206.8  | 136.1  | 106.0  | 99.0   | 100.7  | 106.0  | 107.7  |
| 50°   | 9084.7  | 4944.5 | 349.9  | 252.8  | 187.2  | 113.0  | 91.8   | 86.5   | 88.4   | 95.4   | 97.1   |
| 52.5° | 10114.9 | 5370.2 | 325.1  | 233.3  | 162.6  | 93.7   | 77.8   | 74.2   | 77.8   | 84.8   | 86.5   |
| 55°   | 10998.6 | 5751.9 | 295.2  | 217.4  | 130.8  | 77.8   | 63.6   | 63.6   | 67.2   | 75.9   | 77.8   |
| 57.5° | 11848.6 | 6151.4 | 268.7  | 187.2  | 102.4  | 61.9   | 53.0   | 54.7   | 60.0   | 68.9   | 70.6   |
| 60°   | 13096.1 | 6828.1 | 236.9  | 157.3  | 77.8   | 49.4   | 44.1   | 46.0   | 53.0   | 61.9   | 63.6   |
| 62.5° | 15215.0 | 7858.4 | 205.1  | 130.8  | 60.0   | 38.8   | 35.4   | 38.8   | 47.7   | 58.3   | 60.0   |
| 65°   | 17126.8 | 8277.2 | 167.9  | 109.6  | 46.0   | 30.1   | 30.1   | 35.4   | 46.0   | 56.6   | 58.3   |
| 67.5° | 16061.3 | 6967.8 | 130.8  | 86.5   | 35.4   | 22.9   | 24.8   | 33.5   | 44.1   | 56.6   | 58.3   |
| 69°   | 14204.1 | 5697.2 | 111.3  | 68.9   | 30.1   | 21.2   | 22.9   | 33.5   | 44.1   | 54.7   | 56.6   |
| 70°   | 12756.8 | 4810.1 | 99.0   | 58.3   | 26.5   | 21.2   | 22.9   | 31.8   | 44.1   | 54.7   | 56.6   |
| 72.5° | 8544.0  | 2597.7 | 79.5   | 42.4   | 24.8   | 19.5   | 19.5   | 31.8   | 42.4   | 53.0   | 54.7   |
| 75°   | 3672.1  | 717.4  | 63.6   | 30.1   | 21.2   | 17.6   | 17.6   | 30.1   | 40.7   | 51.3   | 54.7   |
| 77.5° | 671.6   | 181.9  | 51.3   | 26.5   | 21.2   | 17.6   | 15.9   | 28.2   | 38.8   | 49.4   | 51.3   |
| 80°   | 266.8   | 90.1   | 40.7   | 22.9   | 19.5   | 15.9   | 14.2   | 26.5   | 37.1   | 47.7   | 49.4   |
| 82.5° | 160.7   | 51.3   | 33.5   | 21.2   | 19.5   | 14.2   | 12.3   | 22.9   | 35.4   | 46.0   | 47.7   |
| 85°   | 130.8   | 35.4   | 26.5   | 21.2   | 17.6   | 14.2   | 10.6   | 21.2   | 31.8   | 44.1   | 46.0   |
| 87.5° | 63.6    | 24.8   | 24.8   | 19.5   | 17.6   | 14.2   | 10.6   | 19.5   | 30.1   | 42.4   | 44.1   |
| 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)