

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: P457797

Luminaire Tested: **GLAN-SA9A-830-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457797  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9A-830-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32653 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

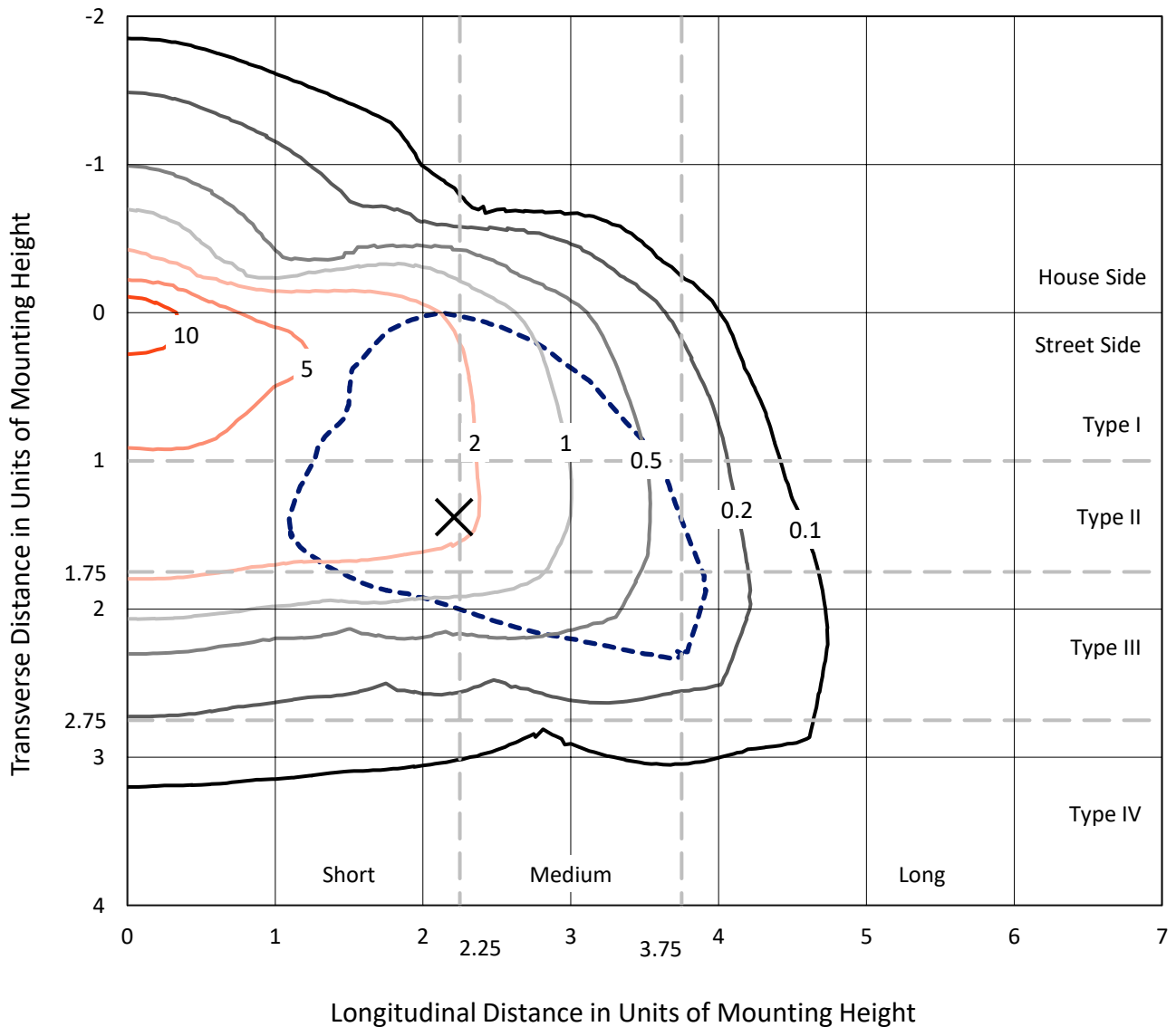
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

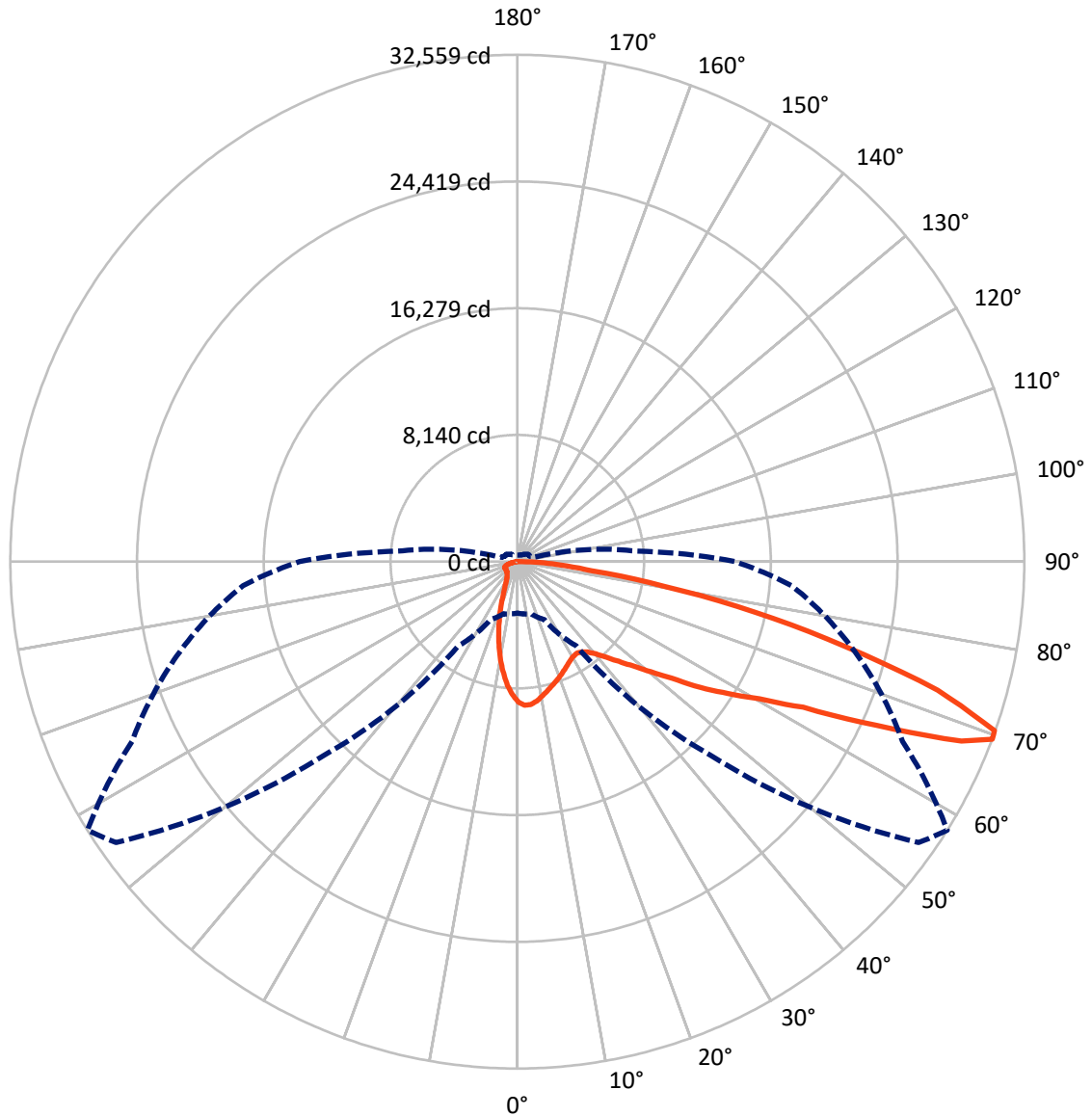
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4785.3   | 0.0    | 4785.3  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 27867.7  | 0.0    | 27867.7 |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 32653.0  | 0.0    | 32653.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 766.3   | 2.3       |
| 10°-20°   | 1682.7  | 5.2       |
| 20°-30°   | 2174.0  | 6.7       |
| 30°-40°   | 2823.7  | 8.6       |
| 40°-50°   | 4105.2  | 12.6      |
| 50°-60°   | 6550.5  | 20.1      |
| 60°-70°   | 8750.7  | 26.8      |
| 70°-80°   | 5044.4  | 15.4      |
| 80°-90°   | 755.5   | 2.3       |
| 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°    | 32653.0 | 100.0     |
| 0°-180°   | 32653.0 | 100.0     |

**Coefficient of Utilization**



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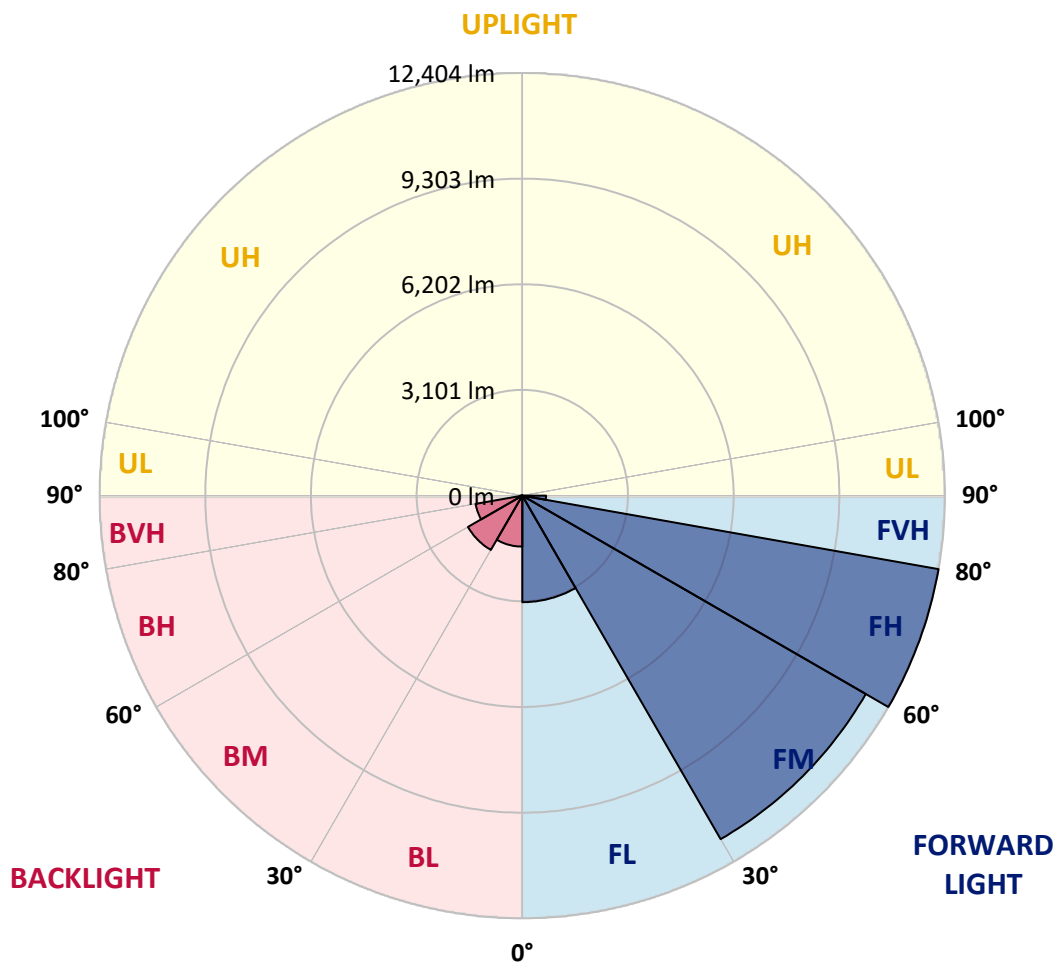
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3127.3  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 11639.1 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 12403.6 | 38.0      |                         |      | G5      |
| FVH  | (80°-90°)   | 697.7   | 2.1       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1495.7  | 4.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1840.3  | 5.6       | B2/2500                 |      |         |
| BH   | (60°-60°)   | 1391.5  | 4.3       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 57.9    | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9023.4  | 9023.4  | 9023.4  | 9023.4  | 9023.4  | 9023.4  | 9023.4  | 9023.4  | 9023.4  | 9023.4  | 9023.4  |
| 2.5°  | 9358.5  | 9383.9  | 9376.7  | 9367.6  | 9353.0  | 9312.9  | 9247.4  | 9236.4  | 9194.6  | 9105.3  | 8994.2  |
| 5°    | 9214.6  | 9236.4  | 9238.3  | 9251.0  | 9269.2  | 9261.9  | 9214.6  | 9209.1  | 9147.2  | 9027.0  | 8841.3  |
| 7.5°  | 8721.1  | 8750.2  | 8814.0  | 8885.0  | 8948.7  | 9008.8  | 9023.4  | 9032.5  | 8994.2  | 8855.8  | 8608.2  |
| 10°   | 8165.7  | 8194.8  | 8223.9  | 8329.6  | 8486.2  | 8635.5  | 8759.3  | 8775.7  | 8784.8  | 8657.3  | 8355.0  |
| 12.5° | 7550.1  | 7610.2  | 7672.1  | 7828.8  | 8038.2  | 8273.1  | 8491.6  | 8526.2  | 8588.1  | 8491.6  | 8136.5  |
| 15°   | 7027.5  | 7089.4  | 7178.6  | 7318.9  | 7572.0  | 7910.7  | 8218.5  | 8274.9  | 8396.9  | 8347.8  | 7932.6  |
| 17.5° | 6665.1  | 6687.0  | 6748.9  | 6909.1  | 7182.3  | 7539.2  | 7950.8  | 8063.7  | 8258.5  | 8245.8  | 7757.7  |
| 20°   | 6379.2  | 6406.5  | 6444.7  | 6543.1  | 6827.2  | 7204.1  | 7701.3  | 7847.0  | 8111.0  | 8154.7  | 7584.7  |
| 22.5° | 6259.0  | 6279.0  | 6273.6  | 6326.4  | 6519.4  | 6898.2  | 7448.2  | 7621.2  | 7979.9  | 8092.8  | 7424.5  |
| 25°   | 6266.3  | 6284.5  | 6257.2  | 6244.4  | 6359.2  | 6628.7  | 7184.1  | 7404.5  | 7874.3  | 8050.9  | 7278.8  |
| 27.5° | 6388.3  | 6401.0  | 6350.1  | 6299.1  | 6308.2  | 6461.1  | 6965.6  | 7209.6  | 7785.1  | 8069.1  | 7156.8  |
| 30°   | 6552.2  | 6575.9  | 6543.1  | 6481.2  | 6413.8  | 6421.1  | 6825.4  | 7065.7  | 7743.2  | 8132.9  | 7098.5  |
| 32.5° | 6763.4  | 6785.3  | 6770.7  | 6721.6  | 6634.1  | 6537.6  | 6790.8  | 7012.9  | 7746.8  | 8262.2  | 7085.8  |
| 35°   | 6985.6  | 7029.3  | 7053.0  | 7049.3  | 6978.3  | 6810.8  | 6927.3  | 7111.3  | 7834.2  | 8478.9  | 7160.4  |
| 37.5° | 7236.9  | 7273.3  | 7375.3  | 7440.9  | 7375.3  | 7180.5  | 7235.1  | 7362.6  | 8027.3  | 8792.1  | 7324.3  |
| 40°   | 7480.9  | 7535.6  | 7684.9  | 7888.9  | 7863.4  | 7692.2  | 7704.9  | 7788.7  | 8367.8  | 9258.3  | 7644.8  |
| 42.5° | 7735.9  | 7801.4  | 8061.9  | 8364.2  | 8424.2  | 8291.3  | 8325.9  | 8400.6  | 8852.2  | 9904.8  | 8194.8  |
| 45°   | 8063.7  | 8142.0  | 8462.5  | 8839.4  | 9076.2  | 8994.2  | 9092.6  | 9129.0  | 9500.5  | 10746.1 | 8919.6  |
| 47.5° | 8486.2  | 8577.2  | 8972.4  | 9442.2  | 9777.3  | 9852.0  | 10023.1 | 10001.3 | 10303.6 | 11742.2 | 9859.2  |
| 50°   | 9198.2  | 9249.2  | 9622.5  | 10101.4 | 10562.2 | 10899.1 | 11084.8 | 11119.4 | 11299.7 | 12711.0 | 10910.0 |
| 52.5° | 10045.0 | 10090.5 | 10360.0 | 10778.9 | 11356.2 | 12070.0 | 12528.9 | 12416.0 | 12459.7 | 13891.1 | 12139.2 |
| 55°   | 10997.4 | 11073.9 | 11245.1 | 11523.7 | 12272.2 | 13322.9 | 14244.4 | 14271.7 | 13787.3 | 15020.1 | 13317.4 |
| 57.5° | 11734.9 | 11864.2 | 12157.4 | 12554.4 | 13503.2 | 14716.0 | 15954.4 | 15972.6 | 15353.4 | 16225.7 | 14617.7 |
| 60°   | 11363.4 | 11516.4 | 12186.6 | 13153.6 | 15118.5 | 17147.1 | 17997.6 | 17893.8 | 16877.6 | 17598.8 | 16203.8 |
| 62.5° | 9760.9  | 9788.2  | 10762.5 | 12274.0 | 15615.6 | 20399.6 | 21038.8 | 20599.9 | 18911.8 | 19339.7 | 17815.5 |
| 65°   | 6317.3  | 6495.7  | 7267.9  | 9385.8  | 13982.1 | 22204.2 | 26367.2 | 25352.9 | 21763.5 | 21315.6 | 19164.9 |
| 67.5° | 3988.1  | 3942.6  | 4263.1  | 5359.4  | 9617.0  | 20614.5 | 30914.4 | 30754.1 | 25493.1 | 22563.0 | 18842.6 |
| 69°   | 3307.1  | 3358.0  | 3467.3  | 4108.3  | 6617.8  | 17600.6 | 31451.6 | 32558.8 | 27301.4 | 22464.7 | 17671.6 |
| 70°   | 2999.3  | 3023.0  | 3137.7  | 3642.1  | 5106.3  | 14741.5 | 30570.2 | 32509.7 | 28011.6 | 22053.1 | 16823.0 |
| 72.5° | 2380.1  | 2378.3  | 2575.0  | 3030.3  | 3817.0  | 8415.1  | 25101.6 | 28224.7 | 27217.6 | 20137.3 | 13900.2 |
| 75°   | 1808.3  | 1837.5  | 2054.2  | 2564.1  | 3516.5  | 4598.2  | 17516.8 | 21736.2 | 21738.1 | 15905.2 | 8673.7  |
| 77.5° | 1303.9  | 1322.1  | 1575.2  | 2152.5  | 3312.5  | 3727.7  | 11667.6 | 15590.1 | 14655.9 | 7287.9  | 2726.1  |
| 80°   | 854.1   | 865.0   | 1058.0  | 1704.5  | 2986.5  | 3516.5  | 6918.2  | 9542.4  | 6912.8  | 1934.0  | 901.4   |
| 82.5° | 468.0   | 522.6   | 646.5   | 1103.6  | 2396.5  | 3248.8  | 4204.8  | 4829.5  | 2593.2  | 861.4   | 469.8   |
| 85°   | 234.9   | 249.5   | 364.2   | 644.7   | 1566.1  | 2687.9  | 2928.3  | 2769.8  | 1338.5  | 428.0   | 244.0   |
| 87.5° | 69.2    | 87.4    | 151.1   | 249.5   | 635.6   | 1400.4  | 1629.9  | 1462.3  | 515.4   | 154.8   | 51.0    |
| 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°    | 9023.4  | 9023.4  | 9023.4 | 9023.4 | 9023.4 | 9023.4 | 9023.4 | 9023.4 | 9023.4 | 9023.4 | 9023.4 |
| 2.5°  | 8948.7  | 8915.9  | 8770.2 | 8639.1 | 8518.9 | 8391.5 | 8284.0 | 8189.3 | 8198.4 | 8200.3 | 8103.7 |
| 5°    | 8744.8  | 8670.1  | 8393.3 | 8134.7 | 7916.2 | 7639.4 | 7402.6 | 7249.7 | 7173.2 | 7071.2 | 7107.6 |
| 7.5°  | 8468.0  | 8324.1  | 7939.8 | 7510.1 | 7107.6 | 6748.9 | 6359.2 | 6091.5 | 5920.3 | 5754.6 | 5776.4 |
| 10°   | 8182.0  | 7950.8  | 7391.7 | 6823.5 | 6302.7 | 5729.1 | 5231.9 | 4805.8 | 4488.9 | 4370.6 | 4292.3 |
| 12.5° | 7888.9  | 7584.7  | 6874.5 | 6118.8 | 5399.5 | 4712.9 | 4008.2 | 3551.1 | 3201.4 | 3015.7 | 3039.4 |
| 15°   | 7621.2  | 7251.5  | 6335.5 | 5414.0 | 4479.8 | 3662.2 | 2959.2 | 2524.0 | 2280.0 | 2229.0 | 2258.1 |
| 17.5° | 7373.5  | 6889.1  | 5831.1 | 4729.3 | 3638.5 | 2746.2 | 2223.5 | 1977.7 | 1879.3 | 1852.0 | 1850.2 |
| 20°   | 7118.5  | 6581.3  | 5264.7 | 3997.2 | 2835.4 | 2128.8 | 1824.7 | 1710.0 | 1691.8 | 1702.7 | 1704.5 |
| 22.5° | 6860.0  | 6200.7  | 4682.0 | 3270.6 | 2258.1 | 1740.9 | 1595.3 | 1564.3 | 1578.9 | 1604.4 | 1608.0 |
| 25°   | 6621.4  | 5865.7  | 4121.1 | 2633.3 | 1802.9 | 1529.7 | 1458.7 | 1458.7 | 1491.5 | 1529.7 | 1531.5 |
| 27.5° | 6424.7  | 5541.5  | 3562.0 | 2090.6 | 1509.7 | 1376.7 | 1353.1 | 1365.8 | 1411.3 | 1440.5 | 1442.3 |
| 30°   | 6262.6  | 5239.2  | 3033.9 | 1675.4 | 1327.6 | 1254.7 | 1249.3 | 1271.1 | 1303.9 | 1331.2 | 1333.0 |
| 32.5° | 6140.6  | 4973.3  | 2540.4 | 1407.7 | 1201.9 | 1161.8 | 1160.0 | 1176.4 | 1194.6 | 1201.9 | 1209.2 |
| 35°   | 6093.3  | 4753.0  | 2088.8 | 1238.3 | 1118.1 | 1092.6 | 1092.6 | 1090.8 | 1098.1 | 1101.7 | 1105.4 |
| 37.5° | 6131.5  | 4583.6  | 1739.1 | 1129.1 | 1056.2 | 1038.0 | 1027.1 | 1016.2 | 1012.5 | 1012.5 | 1014.3 |
| 40°   | 6293.6  | 4494.4  | 1478.7 | 1058.0 | 1012.5 | 985.2  | 965.2  | 952.4  | 939.7  | 943.3  | 947.0  |
| 42.5° | 6637.8  | 4510.8  | 1302.1 | 1010.7 | 974.3  | 936.0  | 906.9  | 892.3  | 883.2  | 894.1  | 892.3  |
| 45°   | 7185.9  | 4674.7  | 1189.2 | 977.9  | 936.0  | 886.9  | 859.5  | 845.0  | 845.0  | 861.4  | 866.8  |
| 47.5° | 7952.6  | 4987.9  | 1129.1 | 952.4  | 906.9  | 848.6  | 821.3  | 810.4  | 814.0  | 841.3  | 843.2  |
| 50°   | 8888.6  | 5532.4  | 1118.1 | 939.7  | 892.3  | 821.3  | 790.3  | 779.4  | 788.5  | 817.7  | 821.3  |
| 52.5° | 9921.2  | 6233.5  | 1170.9 | 941.5  | 879.6  | 804.9  | 764.8  | 748.5  | 757.6  | 781.2  | 788.5  |
| 55°   | 11144.9 | 7111.3  | 1307.5 | 948.8  | 861.4  | 795.8  | 746.6  | 710.2  | 721.1  | 737.5  | 739.4  |
| 57.5° | 12394.2 | 8218.5  | 1547.9 | 950.6  | 846.8  | 779.4  | 715.7  | 668.3  | 668.3  | 679.3  | 684.7  |
| 60°   | 13920.2 | 9424.0  | 1864.8 | 952.4  | 848.6  | 755.7  | 673.8  | 621.0  | 613.7  | 619.2  | 621.0  |
| 62.5° | 15435.3 | 10432.9 | 1917.6 | 947.0  | 866.8  | 732.1  | 628.3  | 573.6  | 560.9  | 559.1  | 555.4  |
| 65°   | 16103.7 | 10245.3 | 1571.6 | 921.5  | 886.9  | 717.5  | 591.8  | 528.1  | 506.3  | 499.0  | 499.0  |
| 67.5° | 15014.7 | 8666.4  | 1181.9 | 886.9  | 874.1  | 702.9  | 557.2  | 489.9  | 464.4  | 449.8  | 449.8  |
| 69°   | 13991.2 | 7708.6  | 1061.7 | 863.2  | 841.3  | 679.3  | 535.4  | 469.8  | 438.9  | 422.5  | 417.0  |
| 70°   | 13200.9 | 7049.3  | 1010.7 | 843.2  | 810.4  | 651.9  | 519.0  | 455.3  | 420.7  | 402.5  | 398.8  |
| 72.5° | 10534.9 | 5530.6  | 885.0  | 766.7  | 690.2  | 548.1  | 460.7  | 409.7  | 377.0  | 356.9  | 351.5  |
| 75°   | 6071.4  | 2997.5  | 733.9  | 666.5  | 555.4  | 426.1  | 389.7  | 356.9  | 331.4  | 313.2  | 307.8  |
| 77.5° | 1868.4  | 1158.2  | 531.8  | 526.3  | 407.9  | 329.6  | 311.4  | 298.7  | 280.4  | 260.4  | 256.8  |
| 80°   | 786.7   | 590.0   | 360.6  | 355.1  | 271.3  | 229.5  | 224.0  | 222.2  | 214.9  | 198.5  | 193.0  |
| 82.5° | 431.6   | 333.3   | 251.3  | 218.5  | 163.9  | 132.9  | 138.4  | 140.2  | 134.8  | 118.4  | 107.4  |
| 85°   | 211.2   | 182.1   | 122.0  | 98.3   | 74.7   | 47.3   | 45.5   | 54.6   | 51.0   | 36.4   | 40.1   |
| 87.5° | 41.9    | 51.0    | 32.8   | 14.6   | 7.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)