

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: P455008

Luminaire Tested: **GLAN-SA6A-830-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455008  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA6A-830-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21760 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

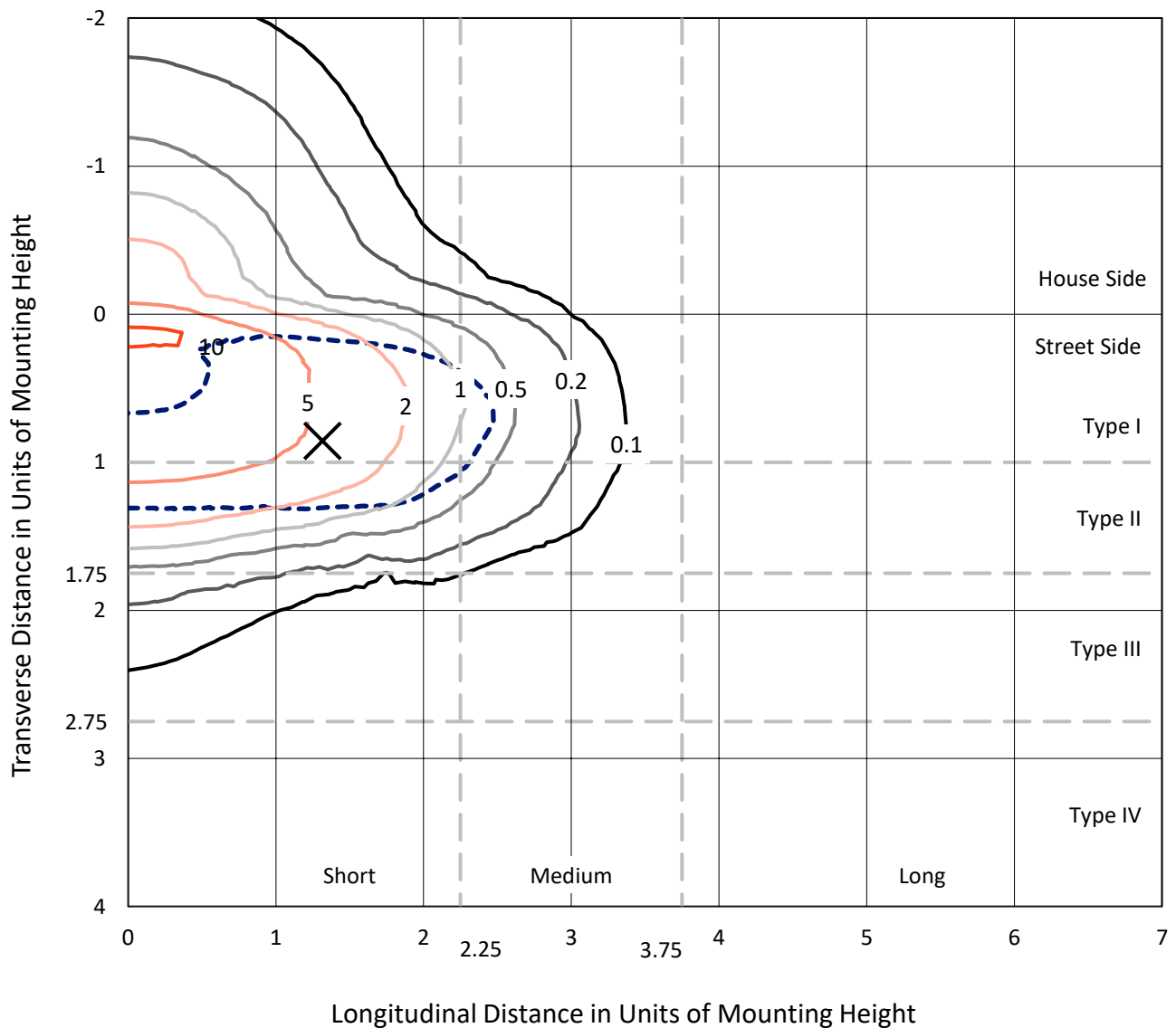
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

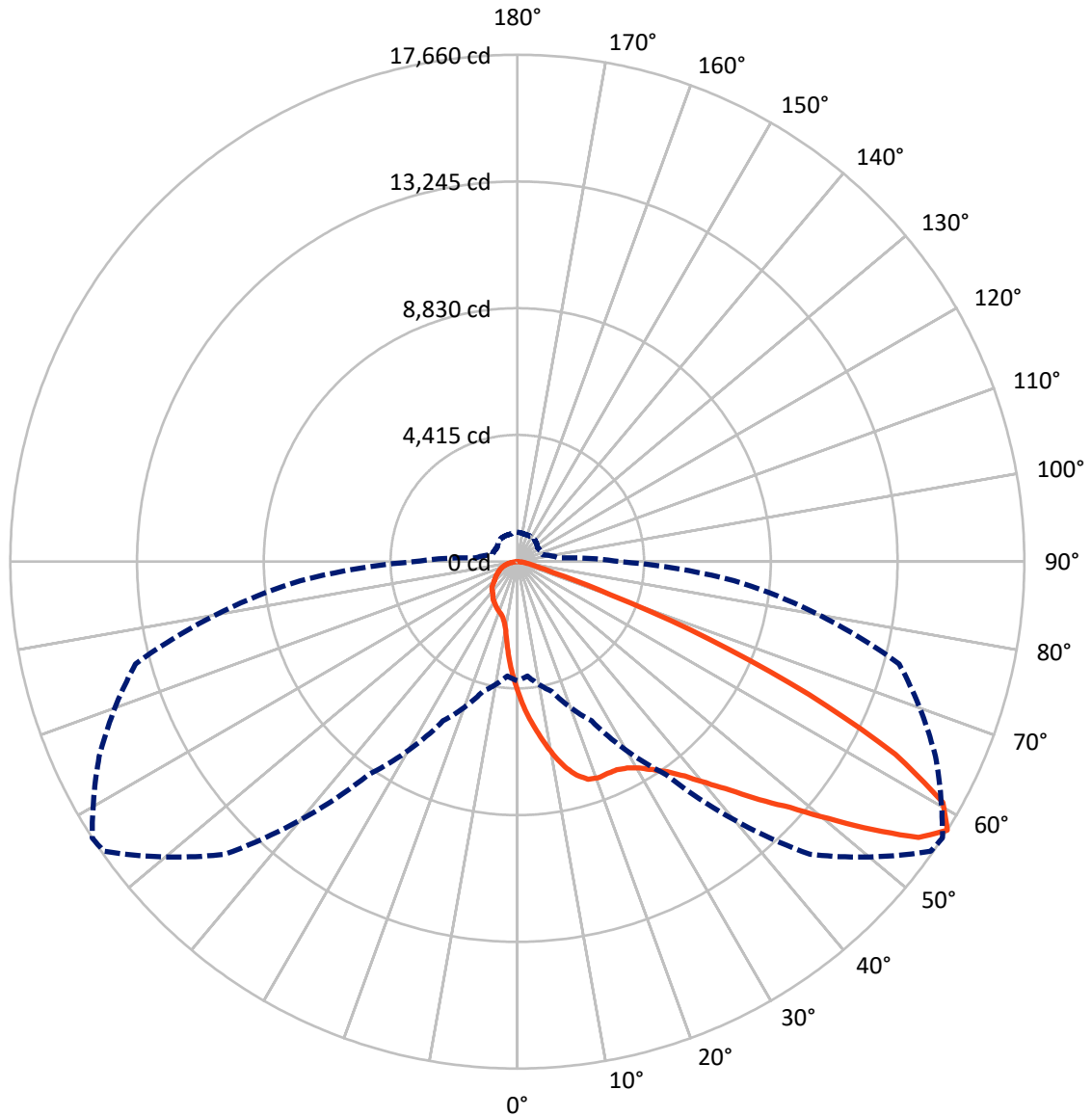
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3309.1   | 0.0    | 3309.1  |
|                    | % Fixture | 15.2     | 0.0    | 15.2    |
| <b>Street Side</b> | Lumens    | 18450.9  | 0.0    | 18450.9 |
|                    | % Fixture | 84.8     | 0.0    | 84.8    |
| <b>Total</b>       | Lumens    | 21760.0  | 0.0    | 21760.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 439.4   | 2.0       |
| 10°-20°   | 1294.8  | 6.0       |
| 20°-30°   | 2150.1  | 9.9       |
| 30°-40°   | 3238.7  | 14.9      |
| 40°-50°   | 4862.6  | 22.3      |
| 50°-60°   | 5450.4  | 25.0      |
| 60°-70°   | 3189.8  | 14.7      |
| 70°-80°   | 943.5   | 4.3       |
| 80°-90°   | 190.7   | 0.9       |
| 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°    | 21760.0 | 100.0     |
| 0°-180°   | 21760.0 | 100.0     |

**Coefficient of Utilization**



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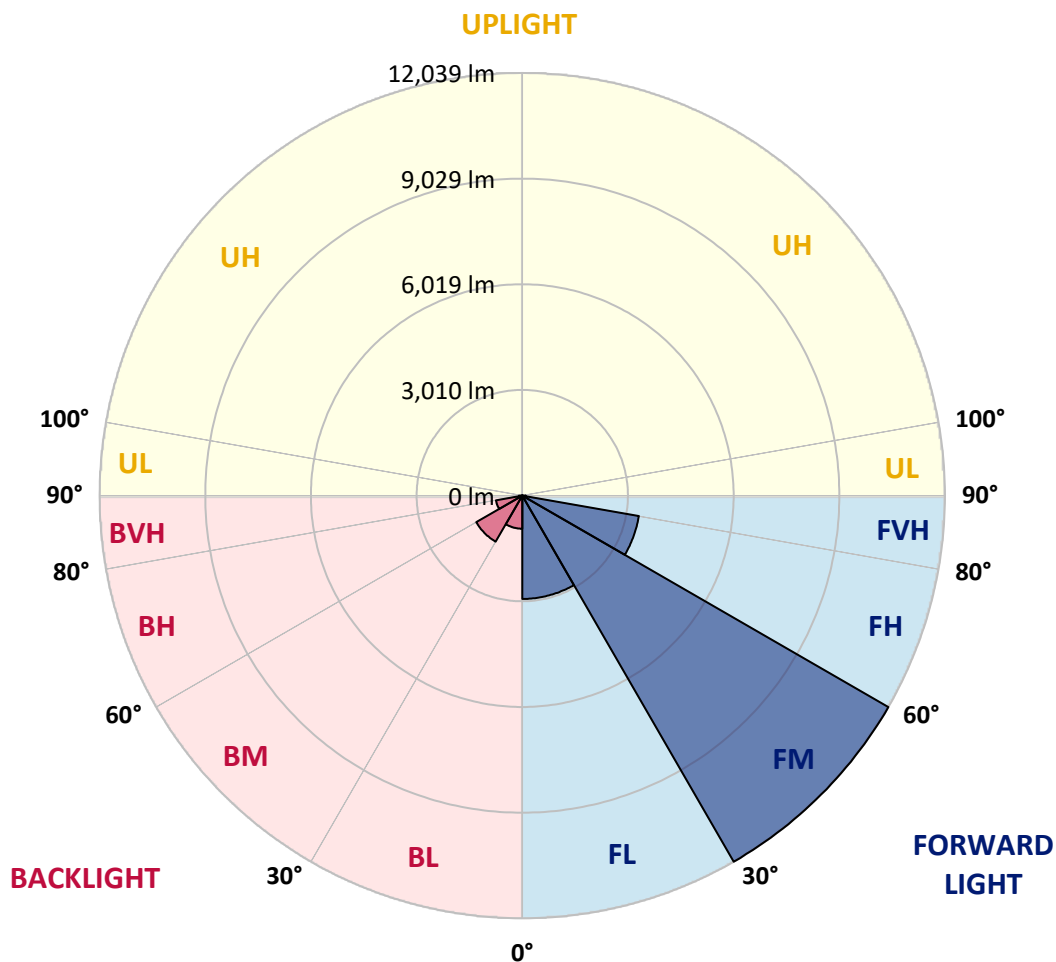
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2941.4  | 13.5      |                         |      |         |
| FM   | (30°-60°)   | 12038.6 | 55.3      |                         |      |         |
| FH   | (60°-80°)   | 3371.9  | 15.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 99.0    | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 942.9   | 4.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1513.0  | 7.0       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 761.4   | 3.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 91.8    | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 57°     | 65°     | 75°     | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 4571.5  | 4571.5  | 4571.5  | 4571.5  | 4571.5  | 4571.5  | 4571.5  | 4571.5  | 4571.5  | 4571.5  | 4571.5 |
| 2.5°  | 5680.5  | 5618.5  | 5569.7  | 5526.8  | 5470.8  | 5319.6  | 5168.3  | 5165.9  | 5045.6  | 4859.8  | 4669.2 |
| 5°    | 6606.0  | 6522.6  | 6533.3  | 6399.9  | 6266.5  | 6047.3  | 5726.9  | 5710.2  | 5454.1  | 5106.3  | 4752.6 |
| 7.5°  | 7208.7  | 7209.9  | 7176.5  | 7100.3  | 6956.2  | 6707.2  | 6343.9  | 6261.7  | 5905.6  | 5377.9  | 4847.9 |
| 10°   | 7177.7  | 7209.9  | 7265.8  | 7331.4  | 7375.4  | 7252.7  | 6921.6  | 6821.6  | 6358.2  | 5706.7  | 4953.9 |
| 12.5° | 6765.6  | 6815.6  | 6895.4  | 7059.8  | 7325.4  | 7527.9  | 7414.7  | 7333.7  | 6882.3  | 6034.2  | 5070.6 |
| 15°   | 6508.3  | 6538.1  | 6582.1  | 6692.9  | 6978.8  | 7463.6  | 7756.6  | 7713.7  | 7376.6  | 6404.7  | 5201.6 |
| 17.5° | 6429.7  | 6459.5  | 6473.7  | 6541.6  | 6745.3  | 7242.0  | 7891.2  | 7967.4  | 7815.0  | 6745.3  | 5333.8 |
| 20°   | 6508.3  | 6522.6  | 6522.6  | 6563.1  | 6722.7  | 7112.2  | 7885.2  | 8038.9  | 8174.7  | 7153.9  | 5457.7 |
| 22.5° | 6714.4  | 6720.3  | 6712.0  | 6726.3  | 6845.4  | 7147.9  | 7829.2  | 8019.8  | 8465.3  | 7500.5  | 5554.2 |
| 25°   | 7049.1  | 7058.6  | 7003.8  | 6970.4  | 7057.4  | 7305.2  | 7860.2  | 8035.3  | 8692.8  | 7831.6  | 5618.5 |
| 27.5° | 7429.0  | 7440.9  | 7374.2  | 7296.8  | 7337.3  | 7499.3  | 7981.7  | 8138.9  | 8863.1  | 8158.0  | 5659.0 |
| 30°   | 7894.8  | 7899.5  | 7787.6  | 7694.6  | 7668.4  | 7788.7  | 8189.0  | 8335.5  | 9075.2  | 8542.7  | 5719.8 |
| 32.5° | 8371.2  | 8406.9  | 8262.8  | 8131.8  | 8087.7  | 8124.6  | 8495.1  | 8636.8  | 9327.7  | 8956.0  | 5817.4 |
| 35°   | 9019.2  | 9025.1  | 8852.4  | 8692.8  | 8547.5  | 8595.1  | 8887.0  | 8989.4  | 9676.7  | 9433.7  | 5955.6 |
| 37.5° | 9827.9  | 9882.7  | 9644.5  | 9346.7  | 9168.1  | 9099.0  | 9361.0  | 9473.0  | 10166.2 | 10019.7 | 6164.1 |
| 40°   | 10726.1 | 10746.3 | 10542.6 | 10356.8 | 10030.4 | 9830.3  | 10011.4 | 10132.9 | 10770.1 | 10718.9 | 6405.9 |
| 42.5° | 11290.6 | 11334.7 | 11350.2 | 11331.1 | 11085.8 | 10749.9 | 10819.0 | 10876.1 | 11484.8 | 11375.2 | 6653.6 |
| 45°   | 11481.2 | 11546.7 | 11768.3 | 12237.6 | 12263.8 | 11932.7 | 11771.9 | 11826.7 | 12263.8 | 12037.5 | 6890.6 |
| 47.5° | 11165.6 | 11277.5 | 11686.1 | 12648.5 | 13369.2 | 13394.2 | 12909.4 | 12789.1 | 12973.7 | 12586.6 | 7062.2 |
| 50°   | 10349.7 | 10373.5 | 10998.8 | 12392.4 | 13887.3 | 14791.4 | 14289.9 | 14066.0 | 13647.9 | 12992.8 | 7180.1 |
| 52.5° | 9087.1  | 9114.5  | 9638.6  | 11202.5 | 13568.1 | 15768.1 | 15905.1 | 15504.8 | 14332.8 | 13308.4 | 7257.5 |
| 55°   | 6745.3  | 6903.7  | 7480.2  | 8991.8  | 12055.3 | 15676.4 | 17189.1 | 16961.6 | 15160.6 | 13558.5 | 7379.0 |
| 57.5° | 4147.5  | 4002.2  | 4685.9  | 6117.6  | 9066.8  | 14416.2 | 17585.7 | 17659.6 | 16071.8 | 13768.2 | 7582.7 |
| 60°   | 1908.2  | 1936.8  | 2219.1  | 3155.3  | 5526.8  | 11277.5 | 16563.7 | 17030.7 | 16575.7 | 13761.0 | 7633.9 |
| 62.5° | 1315.0  | 1288.8  | 1217.3  | 1385.3  | 2520.4  | 7132.4  | 13990.9 | 14781.8 | 15565.6 | 13333.4 | 7430.2 |
| 65°   | 1175.6  | 1149.4  | 1011.3  | 964.8   | 1157.8  | 3108.8  | 10171.0 | 11169.2 | 13105.9 | 12254.3 | 6922.8 |
| 67.5° | 1098.2  | 1062.5  | 919.5   | 829.0   | 826.6   | 1237.6  | 5997.3  | 7199.1  | 9720.7  | 10360.4 | 5998.5 |
| 70°   | 1017.2  | 988.6   | 846.9   | 746.8   | 704.0   | 777.8   | 2636.0  | 3450.7  | 6311.8  | 7466.0  | 4672.8 |
| 72.5° | 936.2   | 902.9   | 775.4   | 668.2   | 612.2   | 582.5   | 1010.1  | 1313.8  | 3566.2  | 4476.2  | 2864.6 |
| 75°   | 818.3   | 801.6   | 693.2   | 605.1   | 544.3   | 470.5   | 640.8   | 731.3   | 1705.7  | 2055.9  | 1437.7 |
| 77.5° | 715.9   | 698.0   | 615.8   | 528.9   | 484.8   | 382.4   | 455.0   | 496.7   | 719.4   | 833.8   | 649.2  |
| 80°   | 524.1   | 542.0   | 519.3   | 466.9   | 432.4   | 300.2   | 306.1   | 340.7   | 427.6   | 472.9   | 396.6  |
| 82.5° | 332.3   | 365.7   | 400.2   | 359.7   | 327.6   | 237.0   | 212.0   | 225.1   | 291.8   | 309.7   | 176.3  |
| 85°   | 139.4   | 141.7   | 232.3   | 219.2   | 187.0   | 140.6   | 127.5   | 134.6   | 156.0   | 163.2   | 82.2   |
| 87.5° | 53.6    | 52.4    | 82.2    | 76.2    | 58.4    | 40.5    | 40.5    | 45.3    | 61.9    | 57.2    | 26.2   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4571.5 | 4571.5 | 4571.5 | 4571.5 | 4571.5 | 4571.5 | 4571.5 | 4571.5 | 4571.5 | 4571.5 | 4571.5 |
| 2.5°  | 4587.0 | 4502.4 | 4334.5 | 4126.0 | 3973.6 | 3802.1 | 3650.8 | 3542.4 | 3501.9 | 3482.8 | 3447.1 |
| 5°    | 4583.4 | 4416.7 | 4068.9 | 3704.4 | 3411.4 | 3111.2 | 2857.5 | 2693.1 | 2678.8 | 2569.3 | 2558.5 |
| 7.5°  | 4584.6 | 4329.7 | 3775.9 | 3239.9 | 2793.2 | 2485.9 | 2276.2 | 2221.4 | 2155.9 | 2139.3 | 2147.6 |
| 10°   | 4588.2 | 4219.0 | 3461.4 | 2780.1 | 2347.7 | 2146.4 | 2067.8 | 2046.3 | 2048.7 | 2055.9 | 2057.1 |
| 12.5° | 4593.0 | 4111.8 | 3135.0 | 2431.1 | 2097.6 | 2014.2 | 2005.8 | 2024.9 | 2045.2 | 2060.6 | 2064.2 |
| 15°   | 4598.9 | 3989.1 | 2817.0 | 2150.0 | 1972.5 | 1965.4 | 1992.7 | 2024.9 | 2053.5 | 2076.1 | 2079.7 |
| 17.5° | 4591.8 | 3846.1 | 2550.2 | 1977.3 | 1903.4 | 1938.0 | 1983.2 | 2023.7 | 2049.9 | 2071.4 | 2073.7 |
| 20°   | 4575.1 | 3686.5 | 2292.9 | 1855.8 | 1860.5 | 1916.5 | 1965.4 | 2003.5 | 2032.1 | 2042.8 | 2051.1 |
| 22.5° | 4510.8 | 3495.9 | 2069.0 | 1761.7 | 1809.3 | 1886.7 | 1945.1 | 1967.7 | 1935.6 | 1912.9 | 1918.9 |
| 25°   | 4401.2 | 3248.2 | 1860.5 | 1685.4 | 1762.9 | 1845.0 | 1904.6 | 1849.8 | 1823.6 | 1814.1 | 1818.8 |
| 27.5° | 4264.2 | 2976.6 | 1703.3 | 1605.6 | 1703.3 | 1798.6 | 1781.9 | 1772.4 | 1760.5 | 1745.0 | 1748.6 |
| 30°   | 4116.5 | 2711.0 | 1569.9 | 1543.7 | 1639.0 | 1693.8 | 1700.9 | 1716.4 | 1703.3 | 1679.5 | 1689.0 |
| 32.5° | 3979.5 | 2460.9 | 1468.7 | 1491.3 | 1593.7 | 1585.4 | 1639.0 | 1656.9 | 1596.1 | 1516.3 | 1519.9 |
| 35°   | 3862.8 | 2228.6 | 1392.4 | 1440.1 | 1516.3 | 1519.9 | 1573.5 | 1511.5 | 1446.0 | 1407.9 | 1410.3 |
| 37.5° | 3774.7 | 2047.5 | 1342.4 | 1396.0 | 1417.4 | 1462.7 | 1434.1 | 1402.0 | 1393.6 | 1367.4 | 1368.6 |
| 40°   | 3722.3 | 1889.1 | 1310.2 | 1361.5 | 1357.9 | 1388.8 | 1297.1 | 1329.3 | 1341.2 | 1332.9 | 1334.1 |
| 42.5° | 3669.8 | 1777.2 | 1276.9 | 1313.8 | 1312.6 | 1251.9 | 1231.6 | 1259.0 | 1290.0 | 1293.6 | 1291.2 |
| 45°   | 3628.2 | 1690.2 | 1242.3 | 1241.1 | 1265.0 | 1169.7 | 1163.7 | 1180.4 | 1224.5 | 1245.9 | 1244.7 |
| 47.5° | 3581.7 | 1617.5 | 1189.9 | 1156.6 | 1163.7 | 1118.5 | 1108.9 | 1116.1 | 1169.7 | 1204.2 | 1213.8 |
| 50°   | 3523.3 | 1544.9 | 1124.4 | 1079.2 | 1049.4 | 1070.8 | 1073.2 | 1074.4 | 1128.0 | 1167.3 | 1175.6 |
| 52.5° | 3476.9 | 1490.1 | 1049.4 | 1016.0 | 980.3  | 1027.9 | 1045.8 | 1048.2 | 1080.3 | 1112.5 | 1118.5 |
| 55°   | 3504.3 | 1459.1 | 975.5  | 951.7  | 919.5  | 983.9  | 1018.4 | 1023.2 | 1030.3 | 1054.1 | 1057.7 |
| 57.5° | 3586.5 | 1466.3 | 916.0  | 885.0  | 861.2  | 931.5  | 989.8  | 993.4  | 988.6  | 1017.2 | 1022.0 |
| 60°   | 3611.5 | 1462.7 | 871.9  | 811.2  | 796.9  | 875.5  | 948.1  | 955.3  | 954.1  | 995.8  | 1004.1 |
| 62.5° | 3506.7 | 1417.4 | 827.8  | 749.2  | 739.7  | 818.3  | 889.8  | 918.4  | 924.3  | 983.9  | 994.6  |
| 65°   | 3260.1 | 1324.5 | 769.5  | 683.7  | 683.7  | 757.6  | 833.8  | 873.1  | 889.8  | 969.6  | 981.5  |
| 67.5° | 2934.9 | 1214.9 | 709.9  | 627.7  | 625.3  | 699.2  | 774.2  | 814.7  | 840.9  | 949.3  | 956.5  |
| 70°   | 2435.8 | 1067.2 | 636.1  | 567.0  | 567.0  | 633.7  | 701.6  | 750.4  | 788.5  | 911.2  | 911.2  |
| 72.5° | 1668.8 | 887.4  | 546.7  | 497.9  | 499.1  | 561.0  | 630.1  | 684.9  | 730.2  | 835.0  | 837.4  |
| 75°   | 1055.3 | 693.2  | 449.1  | 424.0  | 428.8  | 487.2  | 558.6  | 615.8  | 706.3  | 825.4  | 829.0  |
| 77.5° | 561.0  | 487.2  | 357.3  | 351.4  | 357.3  | 410.9  | 490.7  | 569.4  | 708.7  | 715.9  | 704.0  |
| 80°   | 363.3  | 345.4  | 282.3  | 270.4  | 272.8  | 331.1  | 437.1  | 540.8  | 569.4  | 576.5  | 550.3  |
| 82.5° | 197.7  | 219.2  | 200.1  | 188.2  | 188.2  | 258.5  | 372.8  | 430.0  | 408.6  | 339.5  | 324.0  |
| 85°   | 84.6   | 102.4  | 103.6  | 90.5   | 87.0   | 159.6  | 250.1  | 234.7  | 218.0  | 208.4  | 206.1  |
| 87.5° | 23.8   | 33.4   | 33.4   | 25.0   | 19.1   | 44.1   | 50.0   | 14.3   | 0.0    | 1.2    | 2.4    |
| 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)