

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: P458265

Luminaire Tested: **GLAN-SA9C-830-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9C-830-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43656 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

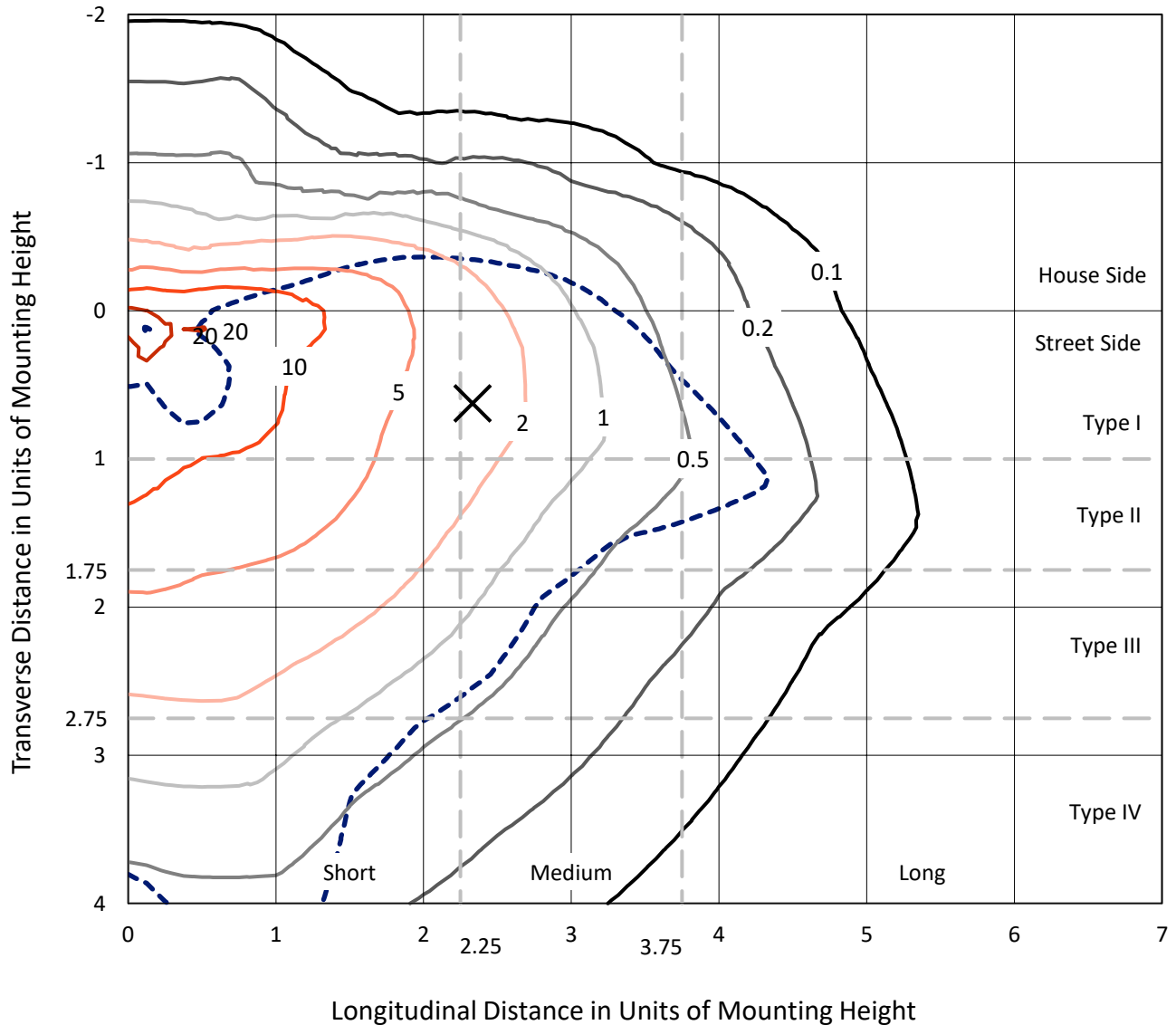
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

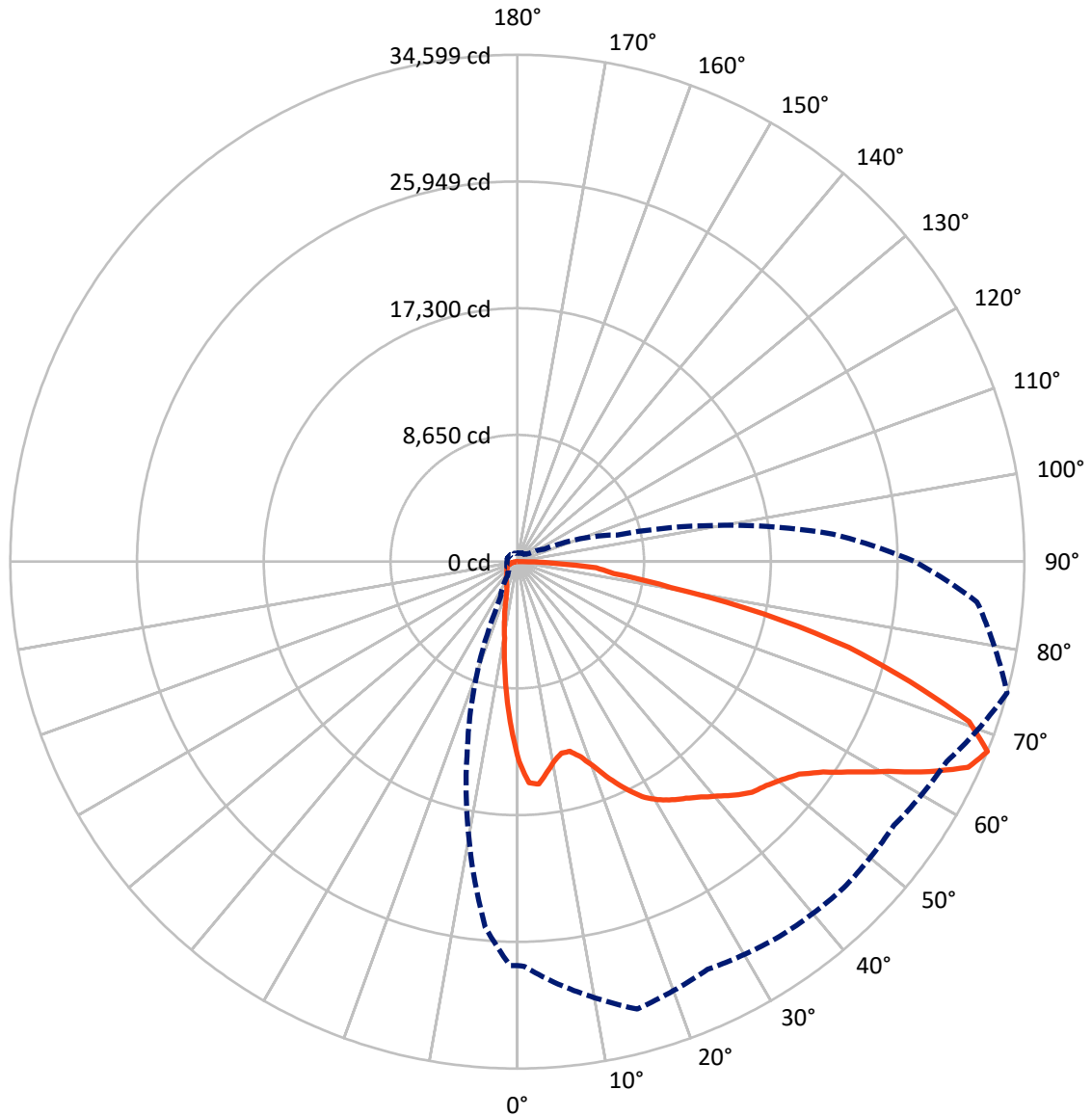
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7378.8   | 0.0    | 7378.8  |
|                    | % Fixture | 16.9     | 0.0    | 16.9    |
| <b>Street Side</b> | Lumens    | 36277.2  | 0.0    | 36277.2 |
|                    | % Fixture | 83.1     | 0.0    | 83.1    |
| <b>Total</b>       | Lumens    | 43656.0  | 0.0    | 43656.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1034.5  | 2.4       |
| 10°-20°   | 2157.5  | 4.9       |
| 20°-30°   | 3104.6  | 7.1       |
| 30°-40°   | 4471.5  | 10.2      |
| 40°-50°   | 6281.3  | 14.4      |
| 50°-60°   | 8760.2  | 20.1      |
| 60°-70°   | 10415.3 | 23.9      |
| 70°-80°   | 6134.0  | 14.1      |
| 80°-90°   | 1297.1  | 3.0       |
| 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°    | 43656.0 | 100.0     |
| 0°-180°   | 43656.0 | 100.0     |

**Coefficient of Utilization**



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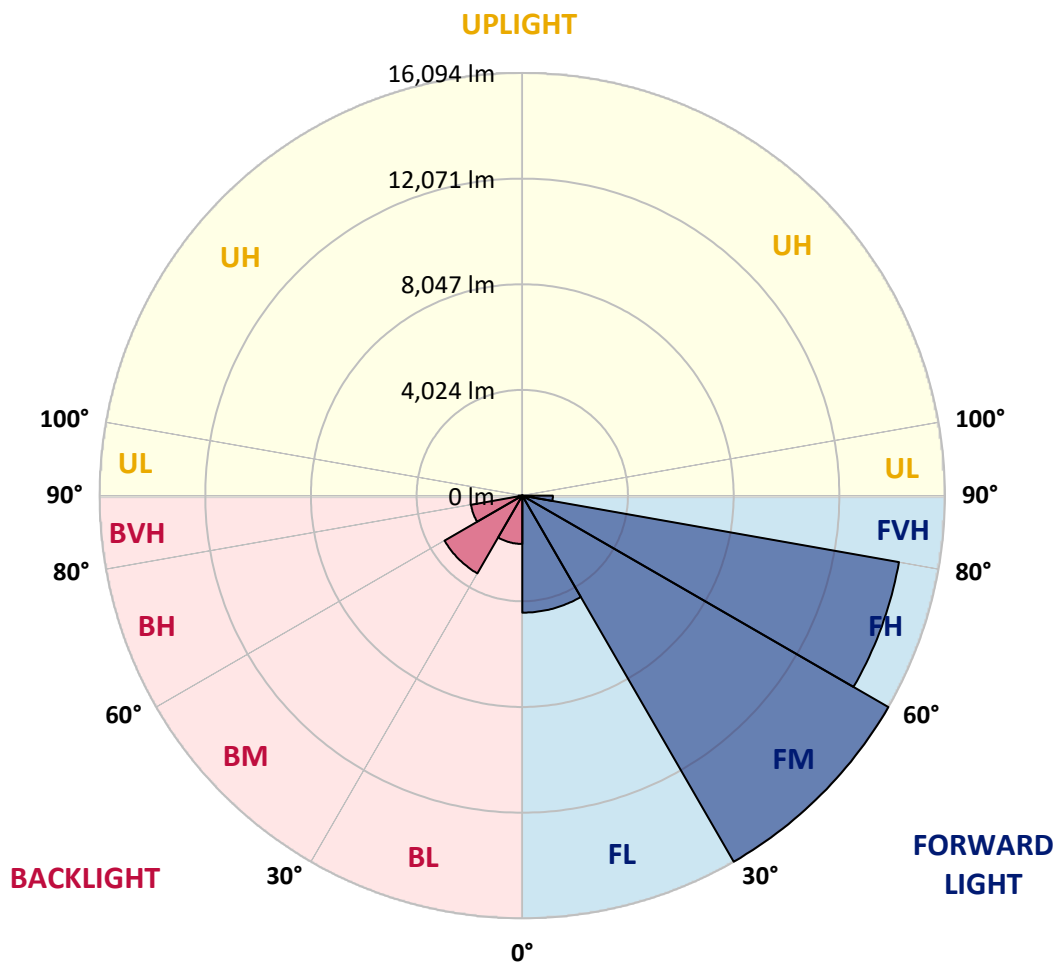
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4456.1  | 10.2      |                         |      |         |
| FM   | (30°-60°)   | 16094.4 | 36.9      |                         |      |         |
| FH   | (60°-80°)   | 14563.8 | 33.4      |                         |      | G5      |
| FVH  | (80°-90°)   | 1163.0  | 2.7       |                         |      | G5      |
| BL   | (0°-30°)    | 1840.5  | 4.2       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3418.6  | 7.8       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1985.5  | 4.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 134.2   | 0.3       |                         |      | G2/225  |
| 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 Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 |
| 2.5°  | 14705.8 | 14725.4 | 14851.4 | 15218.1 | 15470.0 | 15562.4 | 15626.8 | 15506.4 | 15388.9 | 15103.3 | 14672.2 |
| 5°    | 14661.0 | 14775.8 | 15103.3 | 15926.4 | 16575.8 | 16855.8 | 16939.8 | 16578.6 | 15982.3 | 15248.9 | 14367.0 |
| 7.5°  | 13804.3 | 13958.3 | 14462.2 | 15842.4 | 16987.4 | 17642.5 | 17555.7 | 16903.4 | 15828.4 | 14521.0 | 13289.2 |
| 10°   | 12788.1 | 12958.9 | 13566.4 | 15234.9 | 16710.2 | 17611.7 | 17611.7 | 16816.6 | 15388.9 | 13835.1 | 12415.8 |
| 12.5° | 11981.9 | 12161.0 | 12855.3 | 14610.6 | 16133.5 | 16987.4 | 17130.1 | 16447.1 | 15072.5 | 13401.2 | 11841.9 |
| 15°   | 11715.9 | 11889.5 | 12636.9 | 14232.7 | 15523.2 | 16043.9 | 16091.5 | 15867.6 | 14918.5 | 13432.0 | 11816.7 |
| 17.5° | 12046.3 | 12270.2 | 13026.1 | 14344.6 | 14963.3 | 14994.1 | 15030.5 | 15206.9 | 14935.3 | 13994.7 | 12326.2 |
| 20°   | 13000.9 | 13241.6 | 14031.1 | 14705.8 | 14473.4 | 14154.3 | 14173.9 | 14627.4 | 15134.1 | 14924.1 | 13544.0 |
| 22.5° | 14378.2 | 14588.2 | 15397.3 | 15341.3 | 14266.3 | 13608.4 | 13471.2 | 14103.9 | 15428.0 | 16083.1 | 14840.2 |
| 25°   | 15864.8 | 16111.1 | 17040.6 | 16284.7 | 14325.0 | 13283.6 | 13196.8 | 13795.9 | 15733.2 | 17166.5 | 16337.9 |
| 27.5° | 17566.9 | 17807.6 | 18541.1 | 17236.5 | 14633.0 | 13258.4 | 13154.9 | 13767.9 | 16007.5 | 18168.8 | 17768.4 |
| 30°   | 18832.2 | 19053.4 | 19551.7 | 18037.2 | 15010.9 | 13426.4 | 13297.6 | 13989.1 | 16242.7 | 18854.6 | 19162.6 |
| 32.5° | 19826.1 | 20055.6 | 20327.2 | 18535.5 | 15509.2 | 13731.6 | 13493.6 | 14392.2 | 16550.6 | 19378.1 | 20195.6 |
| 35°   | 20861.9 | 21133.4 | 21113.8 | 18977.8 | 15974.0 | 14084.3 | 13851.9 | 14974.5 | 17035.0 | 19834.5 | 21505.8 |
| 37.5° | 22174.8 | 22284.0 | 22144.1 | 19375.3 | 16531.1 | 14719.8 | 14591.0 | 15839.6 | 17723.6 | 20386.0 | 23037.1 |
| 40°   | 23507.4 | 23725.8 | 23006.3 | 19856.9 | 17208.5 | 15915.2 | 15901.2 | 17118.9 | 18541.1 | 21032.6 | 24520.8 |
| 42.5° | 24649.6 | 24834.4 | 23812.6 | 20276.8 | 18028.8 | 17373.7 | 17480.1 | 18835.0 | 19613.3 | 21782.9 | 25713.4 |
| 45°   | 25509.1 | 25674.2 | 24557.2 | 20682.7 | 19109.4 | 19059.0 | 19686.1 | 20674.3 | 20965.5 | 22457.6 | 26413.3 |
| 47.5° | 26239.7 | 26399.3 | 25075.1 | 21298.6 | 20444.8 | 21071.8 | 22163.6 | 22592.0 | 22121.7 | 22843.9 | 27197.1 |
| 50°   | 26855.6 | 26903.2 | 25430.7 | 22032.1 | 22102.1 | 23538.2 | 24596.4 | 24873.6 | 23263.9 | 23398.2 | 27877.4 |
| 52.5° | 27496.7 | 27435.1 | 26043.8 | 22955.9 | 23893.7 | 25878.6 | 26648.4 | 26936.8 | 24358.5 | 24081.3 | 28868.5 |
| 55°   | 28932.8 | 28991.6 | 27418.3 | 24120.5 | 25705.0 | 28177.0 | 29190.4 | 28913.2 | 25570.6 | 25338.3 | 30128.2 |
| 57.5° | 30668.5 | 30618.1 | 29352.8 | 25943.0 | 27549.9 | 30315.8 | 31071.7 | 30626.5 | 27188.8 | 27065.6 | 31404.8 |
| 60°   | 31343.2 | 31410.4 | 30970.9 | 27902.6 | 29369.6 | 32188.7 | 32961.3 | 32269.8 | 29128.8 | 29072.8 | 32367.8 |
| 62.5° | 30665.7 | 31043.7 | 31340.4 | 29646.7 | 30920.5 | 33566.0 | 34333.1 | 33543.6 | 31152.8 | 31558.8 | 33042.5 |
| 65°   | 29316.4 | 29397.6 | 30408.2 | 31124.8 | 31668.0 | 33792.8 | 34193.1 | 33773.2 | 32843.7 | 33823.6 | 33011.7 |
| 67.5° | 27563.9 | 27633.9 | 28818.1 | 31609.2 | 30704.9 | 31217.2 | 31497.2 | 31374.0 | 32320.2 | 34599.0 | 31491.6 |
| 70°   | 25895.4 | 25839.4 | 27090.8 | 30374.6 | 26729.6 | 25951.4 | 26183.7 | 25797.4 | 27888.6 | 32703.8 | 28510.1 |
| 72.5° | 22648.0 | 22849.5 | 24193.3 | 26942.4 | 21164.2 | 19898.9 | 20405.6 | 19406.1 | 21449.8 | 28009.0 | 23140.7 |
| 75°   | 17740.4 | 17788.0 | 20030.4 | 22611.6 | 15965.6 | 13969.5 | 14655.4 | 14238.3 | 16430.3 | 23364.6 | 15979.6 |
| 77.5° | 12284.2 | 12177.8 | 14588.2 | 17270.1 | 11385.6 | 10226.6 | 10237.8 | 10039.0 | 11472.4 | 17202.9 | 10856.5 |
| 80°   | 7802.2  | 7639.8  | 9132.0  | 10668.9 | 7824.6  | 8370.5  | 8096.2  | 8087.8  | 7469.1  | 10612.9 | 6564.8  |
| 82.5° | 4216.0  | 4395.2  | 5769.8  | 6688.0  | 5613.0  | 6469.6  | 5929.3  | 5755.8  | 5125.9  | 6643.2  | 4199.3  |
| 85°   | 1920.5  | 2088.4  | 3076.7  | 4549.2  | 4263.6  | 4311.2  | 2880.7  | 3398.6  | 4241.2  | 5394.6  | 2242.4  |
| 87.5° | 187.6   | 240.8   | 635.5   | 2147.2  | 1455.7  | 1147.8  | 428.3   | 825.9   | 1066.6  | 1917.7  | 179.2   |
| 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°    | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 |
| 2.5°  | 14495.8 | 14350.2 | 13854.7 | 13446.0 | 13012.1 | 12681.7 | 12250.6 | 11962.3 | 11763.5 | 11464.0 | 11427.6 |
| 5°    | 13829.5 | 13474.0 | 12611.8 | 11732.7 | 10974.0 | 10402.9 | 9823.4  | 9291.5  | 8978.0  | 8880.0  | 8754.0  |
| 7.5°  | 12706.9 | 12107.8 | 10999.2 | 9991.4  | 9120.8  | 8269.7  | 7614.6  | 7149.9  | 6839.2  | 6657.2  | 6438.9  |
| 10°   | 11783.1 | 11088.8 | 9739.5  | 8504.9  | 7788.2  | 7259.1  | 6682.4  | 6184.1  | 5800.6  | 5473.0  | 5293.9  |
| 12.5° | 11161.6 | 10377.7 | 8860.4  | 7858.2  | 7303.9  | 6741.2  | 6066.5  | 5506.6  | 4941.1  | 4568.8  | 4409.2  |
| 15°   | 10974.0 | 10145.4 | 8588.9  | 7536.3  | 6741.2  | 6004.9  | 5249.1  | 4518.4  | 3958.5  | 3605.8  | 3488.2  |
| 17.5° | 11433.2 | 10430.9 | 8586.1  | 7107.9  | 6080.5  | 5201.5  | 4232.8  | 3547.0  | 2973.1  | 2709.9  | 2625.9  |
| 20°   | 12289.8 | 10979.6 | 8611.3  | 6685.2  | 5363.8  | 4126.5  | 3079.5  | 2516.8  | 2242.4  | 2130.4  | 2088.4  |
| 22.5° | 13485.2 | 11816.7 | 8686.9  | 6268.1  | 4580.0  | 3169.0  | 2306.8  | 2021.2  | 1923.3  | 1903.7  | 1895.3  |
| 25°   | 14957.7 | 12852.5 | 8941.6  | 5892.9  | 3919.3  | 2418.8  | 1928.9  | 1800.1  | 1744.1  | 1724.5  | 1721.7  |
| 27.5° | 16312.7 | 14190.7 | 9249.6  | 5571.0  | 3281.0  | 2085.6  | 1744.1  | 1634.9  | 1578.9  | 1576.1  | 1581.7  |
| 30°   | 17536.1 | 15310.5 | 9507.1  | 5209.9  | 2796.7  | 1853.3  | 1623.7  | 1514.5  | 1461.3  | 1458.5  | 1475.3  |
| 32.5° | 18594.3 | 16231.5 | 9697.5  | 4854.3  | 2527.9  | 1710.5  | 1514.5  | 1397.0  | 1352.2  | 1343.8  | 1352.2  |
| 35°   | 19725.3 | 17149.7 | 9610.7  | 4577.2  | 2374.0  | 1592.9  | 1433.3  | 1318.6  | 1265.4  | 1240.2  | 1240.2  |
| 37.5° | 21015.9 | 18096.0 | 9462.3  | 4347.6  | 2304.0  | 1494.9  | 1363.4  | 1251.4  | 1198.2  | 1173.0  | 1170.2  |
| 40°   | 22424.0 | 19042.2 | 9257.9  | 4143.3  | 2234.0  | 1436.1  | 1315.8  | 1198.2  | 1133.8  | 1108.6  | 1103.0  |
| 42.5° | 23667.0 | 19851.3 | 9090.0  | 4008.9  | 2119.2  | 1447.3  | 1273.8  | 1159.0  | 1077.8  | 1044.2  | 1041.4  |
| 45°   | 24747.6 | 20665.9 | 9059.2  | 3930.5  | 2024.0  | 1430.5  | 1262.6  | 1128.2  | 1033.0  | 996.6   | 991.0   |
| 47.5° | 25593.0 | 21514.2 | 9235.6  | 3885.7  | 1920.5  | 1341.0  | 1335.4  | 1108.6  | 993.8   | 954.6   | 949.0   |
| 50°   | 26623.3 | 22717.9 | 9638.7  | 3793.3  | 1825.3  | 1257.0  | 1410.9  | 1105.8  | 963.0   | 912.6   | 898.6   |
| 52.5° | 27995.0 | 24285.7 | 10184.6 | 3628.2  | 1688.1  | 1178.6  | 1346.6  | 1105.8  | 926.6   | 876.2   | 859.4   |
| 55°   | 30069.4 | 26284.5 | 10719.3 | 3395.8  | 1494.9  | 1075.0  | 1215.0  | 1072.2  | 873.4   | 828.7   | 817.5   |
| 57.5° | 31444.0 | 27745.9 | 11060.8 | 3073.9  | 1254.2  | 999.4   | 1047.0  | 1019.0  | 820.3   | 772.7   | 772.7   |
| 60°   | 31514.0 | 28137.8 | 10898.5 | 2667.9  | 1103.0  | 929.4   | 909.8   | 1027.4  | 772.7   | 722.3   | 716.7   |
| 62.5° | 30707.7 | 27177.6 | 10053.0 | 2304.0  | 1021.8  | 853.8   | 823.1   | 901.4   | 725.1   | 674.7   | 666.3   |
| 65°   | 29447.9 | 24728.0 | 8586.1  | 2130.4  | 977.0   | 786.7   | 741.9   | 739.1   | 674.7   | 627.1   | 615.9   |
| 67.5° | 27132.8 | 21609.3 | 7054.7  | 2029.6  | 954.6   | 711.1   | 669.1   | 655.1   | 615.9   | 576.7   | 571.1   |
| 70°   | 23720.2 | 18098.8 | 5657.8  | 1987.6  | 943.4   | 632.7   | 599.1   | 582.3   | 548.7   | 517.9   | 515.1   |
| 72.5° | 18454.3 | 14680.6 | 4669.6  | 1959.7  | 937.8   | 559.9   | 523.5   | 501.1   | 481.5   | 453.5   | 453.5   |
| 75°   | 13255.6 | 10800.5 | 3563.8  | 1766.5  | 867.8   | 481.5   | 442.3   | 428.3   | 400.3   | 377.9   | 383.5   |
| 77.5° | 8356.5  | 7273.1  | 2346.0  | 1299.0  | 671.9   | 386.3   | 352.7   | 344.3   | 321.9   | 291.1   | 310.7   |
| 80°   | 5643.8  | 5114.7  | 1369.0  | 817.5   | 422.7   | 282.7   | 271.6   | 268.8   | 243.6   | 210.0   | 212.8   |
| 82.5° | 3840.9  | 3768.1  | 711.1   | 464.7   | 243.6   | 165.2   | 159.6   | 165.2   | 137.2   | 112.0   | 112.0   |
| 85°   | 1500.5  | 2049.2  | 335.9   | 182.0   | 78.4    | 25.2    | 36.4    | 39.2    | 22.4    | 11.2    | 14.0    |
| 87.5° | 28.0    | 210.0   | 8.4     | 0.0     | 0.0     | 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     |





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**CANDELA DISTRIBUTION (continued):**

|       | 185°    | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 |
| 2.5°  | 11371.6 | 11346.4 | 11388.4 | 11209.2 | 11245.6 | 11312.8 | 11346.4 | 11366.0 | 11643.1 | 11578.7 | 11755.1 |
| 5°    | 8871.6  | 8846.4  | 9008.8  | 9031.2  | 9115.2  | 9098.4  | 9179.6  | 9199.2  | 9299.9  | 9336.3  | 9582.7  |
| 7.5°  | 6452.8  | 6562.0  | 6746.8  | 6842.0  | 6984.8  | 7029.5  | 6987.6  | 7091.1  | 6881.2  | 7032.3  | 7077.1  |
| 10°   | 5184.7  | 5053.1  | 4974.7  | 5193.1  | 5221.1  | 5428.2  | 5344.2  | 5277.1  | 5400.2  | 5405.8  | 5523.4  |
| 12.5° | 4316.8  | 4034.1  | 3846.5  | 3908.1  | 3975.3  | 4064.9  | 4078.9  | 4213.2  | 4302.8  | 4386.8  | 4456.8  |
| 15°   | 3384.6  | 3286.6  | 3115.8  | 3031.9  | 3127.0  | 3163.4  | 3250.2  | 3362.2  | 3457.4  | 3482.6  | 3577.8  |
| 17.5° | 2597.9  | 2614.7  | 2586.7  | 2536.3  | 2595.1  | 2623.1  | 2628.7  | 2631.5  | 2656.7  | 2639.9  | 2779.9  |
| 20°   | 2091.2  | 2150.0  | 2220.0  | 2231.2  | 2250.8  | 2264.8  | 2239.6  | 2144.4  | 2147.2  | 2206.0  | 2250.8  |
| 22.5° | 1892.5  | 1903.7  | 1982.0  | 2007.2  | 2068.8  | 2043.6  | 1970.8  | 1926.1  | 1920.5  | 1934.5  | 1956.9  |
| 25°   | 1735.7  | 1752.5  | 1808.5  | 1847.7  | 1895.3  | 1850.5  | 1797.3  | 1755.3  | 1749.7  | 1763.7  | 1786.1  |
| 27.5° | 1595.7  | 1620.9  | 1671.3  | 1710.5  | 1755.3  | 1713.3  | 1662.9  | 1626.5  | 1623.7  | 1620.9  | 1634.9  |
| 30°   | 1483.7  | 1511.7  | 1548.1  | 1592.9  | 1623.7  | 1587.3  | 1539.7  | 1520.1  | 1517.3  | 1511.7  | 1517.3  |
| 32.5° | 1371.8  | 1416.5  | 1452.9  | 1475.3  | 1506.1  | 1478.1  | 1441.7  | 1430.5  | 1410.9  | 1394.2  | 1385.8  |
| 35°   | 1245.8  | 1293.4  | 1349.4  | 1377.4  | 1408.1  | 1380.2  | 1355.0  | 1307.4  | 1273.8  | 1271.0  | 1276.6  |
| 37.5° | 1173.0  | 1192.6  | 1237.4  | 1285.0  | 1315.8  | 1301.8  | 1254.2  | 1206.6  | 1198.2  | 1198.2  | 1203.8  |
| 40°   | 1108.6  | 1117.0  | 1136.6  | 1198.2  | 1254.2  | 1212.2  | 1153.4  | 1139.4  | 1139.4  | 1136.6  | 1139.4  |
| 42.5° | 1044.2  | 1052.6  | 1052.6  | 1100.2  | 1189.8  | 1122.6  | 1077.8  | 1077.8  | 1077.8  | 1080.6  | 1089.0  |
| 45°   | 985.4   | 988.2   | 985.4   | 1019.0  | 1103.0  | 1047.0  | 1016.2  | 1024.6  | 1030.2  | 1035.8  | 1041.4  |
| 47.5° | 935.0   | 937.8   | 935.0   | 963.0   | 1005.0  | 982.6   | 965.8   | 977.0   | 988.2   | 996.6   | 1002.2  |
| 50°   | 890.2   | 887.4   | 893.0   | 909.8   | 929.4   | 935.0   | 923.8   | 940.6   | 946.2   | 957.4   | 971.4   |
| 52.5° | 851.0   | 848.2   | 853.8   | 862.2   | 890.2   | 890.2   | 890.2   | 904.2   | 915.4   | 926.6   | 946.2   |
| 55°   | 806.3   | 809.1   | 817.5   | 828.7   | 865.0   | 859.4   | 862.2   | 873.4   | 884.6   | 901.4   | 912.6   |
| 57.5° | 764.3   | 769.9   | 781.1   | 797.9   | 834.3   | 831.5   | 834.3   | 839.9   | 853.8   | 862.2   | 873.4   |
| 60°   | 716.7   | 727.9   | 741.9   | 753.1   | 789.5   | 786.7   | 800.7   | 811.9   | 820.3   | 820.3   | 825.9   |
| 62.5° | 669.1   | 685.9   | 699.9   | 708.3   | 747.5   | 750.3   | 769.9   | 778.3   | 783.9   | 778.3   | 786.7   |
| 65°   | 621.5   | 646.7   | 652.3   | 663.5   | 702.7   | 705.5   | 727.9   | 747.5   | 741.9   | 736.3   | 750.3   |
| 67.5° | 573.9   | 604.7   | 601.9   | 615.9   | 655.1   | 660.7   | 680.3   | 713.9   | 702.7   | 697.1   | 708.3   |
| 70°   | 520.7   | 543.1   | 545.9   | 554.3   | 607.5   | 599.1   | 629.9   | 660.7   | 652.3   | 655.1   | 655.1   |
| 72.5° | 461.9   | 481.5   | 481.5   | 498.3   | 554.3   | 540.3   | 565.5   | 599.1   | 599.1   | 596.3   | 596.3   |
| 75°   | 391.9   | 403.1   | 414.3   | 439.5   | 498.3   | 481.5   | 498.3   | 529.1   | 534.7   | 529.1   | 529.1   |
| 77.5° | 316.3   | 333.1   | 338.7   | 372.3   | 414.3   | 411.5   | 428.3   | 442.3   | 453.5   | 447.9   | 447.9   |
| 80°   | 224.0   | 240.8   | 263.2   | 299.5   | 324.7   | 333.1   | 341.5   | 352.7   | 358.3   | 358.3   | 363.9   |
| 82.5° | 126.0   | 151.2   | 170.8   | 207.2   | 218.4   | 260.4   | 257.6   | 266.0   | 257.6   | 226.8   | 252.0   |
| 85°   | 28.0    | 53.2    | 75.6    | 95.2    | 109.2   | 151.2   | 159.6   | 179.2   | 148.4   | 137.2   | 137.2   |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 22.4    | 44.8    | 61.6    | 53.2    | 44.8    | 44.8    |
| 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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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 | 13639.2 |
| 2.5°  | 11903.5 | 12147.0 | 12441.0 | 12947.7 | 13303.2 | 13686.8 | 14073.1 | 14484.6 | 14593.8 | 14705.8 |
| 5°    | 9649.9  | 10128.6 | 10388.9 | 11069.2 | 11783.1 | 12690.1 | 13432.0 | 14243.9 | 14582.6 | 14661.0 |
| 7.5°  | 7309.5  | 7634.2  | 8317.3  | 9006.0  | 9890.6  | 10842.5 | 11979.1 | 13244.4 | 13639.2 | 13804.3 |
| 10°   | 5795.0  | 6237.3  | 6836.4  | 7575.4  | 8350.9  | 9375.5  | 10657.7 | 12135.8 | 12695.7 | 12788.1 |
| 12.5° | 4932.7  | 5425.4  | 6077.7  | 6858.8  | 7592.2  | 8364.9  | 9658.3  | 11184.0 | 11783.1 | 11981.9 |
| 15°   | 3944.5  | 4540.8  | 5293.9  | 6116.9  | 6914.8  | 7760.2  | 9070.4  | 10792.1 | 11483.6 | 11715.9 |
| 17.5° | 3099.0  | 3580.6  | 4395.2  | 5288.3  | 6234.5  | 7303.9  | 8947.2  | 10979.6 | 11830.7 | 12046.3 |
| 20°   | 2371.2  | 2715.5  | 3401.4  | 4344.8  | 5453.4  | 6853.2  | 8978.0  | 11687.9 | 12706.9 | 13000.9 |
| 22.5° | 2049.2  | 2225.6  | 2642.7  | 3541.4  | 4781.5  | 6461.2  | 9104.0  | 12659.3 | 13888.3 | 14378.2 |
| 25°   | 1856.1  | 1948.5  | 2183.6  | 2771.5  | 4140.5  | 6080.5  | 9392.3  | 13966.7 | 15540.0 | 15864.8 |
| 27.5° | 1690.9  | 1758.1  | 1903.7  | 2326.4  | 3558.2  | 5727.8  | 9728.3  | 15416.9 | 17082.6 | 17566.9 |
| 30°   | 1534.1  | 1623.7  | 1760.9  | 2066.0  | 3185.8  | 5405.8  | 10151.0 | 16592.6 | 18381.5 | 18832.2 |
| 32.5° | 1413.7  | 1503.3  | 1629.3  | 1884.1  | 2869.5  | 5067.1  | 10402.9 | 17625.7 | 19442.5 | 19826.1 |
| 35°   | 1315.8  | 1391.4  | 1522.9  | 1738.5  | 2628.7  | 4809.5  | 10352.6 | 18445.9 | 20469.9 | 20861.9 |
| 37.5° | 1245.8  | 1310.2  | 1441.7  | 1601.3  | 2446.8  | 4540.8  | 10327.4 | 19529.3 | 21721.3 | 22174.8 |
| 40°   | 1181.4  | 1248.6  | 1369.0  | 1511.7  | 2264.8  | 4224.4  | 10341.4 | 20604.3 | 23053.9 | 23507.4 |
| 42.5° | 1131.0  | 1206.6  | 1304.6  | 1486.5  | 2077.2  | 3969.7  | 10341.4 | 21539.4 | 24212.9 | 24649.6 |
| 45°   | 1089.0  | 1170.2  | 1265.4  | 1483.7  | 1928.9  | 3776.5  | 10271.4 | 22342.8 | 25136.7 | 25509.1 |
| 47.5° | 1052.6  | 1142.2  | 1279.4  | 1433.3  | 1892.5  | 3636.6  | 10209.8 | 22986.7 | 25889.8 | 26239.7 |
| 50°   | 1027.4  | 1133.8  | 1360.6  | 1374.6  | 1903.7  | 3594.6  | 10506.5 | 23798.6 | 26553.3 | 26855.6 |
| 52.5° | 1007.8  | 1136.6  | 1357.8  | 1287.8  | 1884.1  | 3622.6  | 11125.2 | 25066.7 | 27474.3 | 27496.7 |
| 55°   | 968.6   | 1133.8  | 1287.8  | 1189.8  | 1802.9  | 3670.1  | 11920.3 | 26908.8 | 28916.0 | 28932.8 |
| 57.5° | 929.4   | 1103.0  | 1195.4  | 1105.8  | 1637.7  | 3670.1  | 12877.7 | 28652.9 | 30654.5 | 30668.5 |
| 60°   | 890.2   | 1147.8  | 1049.8  | 1033.0  | 1422.1  | 3603.0  | 13888.3 | 29420.0 | 31200.4 | 31343.2 |
| 62.5° | 851.0   | 1156.2  | 937.8   | 968.6   | 1265.4  | 3440.6  | 14641.4 | 28571.7 | 30461.4 | 30665.7 |
| 65°   | 806.3   | 932.2   | 865.0   | 901.4   | 1184.2  | 3169.0  | 14403.4 | 27018.0 | 29072.8 | 29316.4 |
| 67.5° | 753.1   | 789.5   | 786.7   | 831.5   | 1156.2  | 2768.7  | 13149.3 | 25052.7 | 27577.9 | 27563.9 |
| 70°   | 688.7   | 708.3   | 716.7   | 764.3   | 1103.0  | 2458.0  | 10957.2 | 22502.4 | 25581.8 | 25895.4 |
| 72.5° | 621.5   | 638.3   | 646.7   | 688.7   | 1049.8  | 2281.6  | 8504.9  | 18989.0 | 22158.0 | 22648.0 |
| 75°   | 548.7   | 559.9   | 571.1   | 607.5   | 993.8   | 2021.2  | 6058.1  | 14495.8 | 16970.6 | 17740.4 |
| 77.5° | 473.1   | 473.1   | 487.1   | 523.5   | 837.1   | 1668.5  | 4064.9  | 10167.8 | 11497.5 | 12284.2 |
| 80°   | 383.5   | 386.3   | 380.7   | 419.9   | 615.9   | 1142.2  | 2309.6  | 6791.6  | 7651.0  | 7802.2  |
| 82.5° | 293.9   | 285.5   | 288.3   | 307.9   | 459.1   | 778.3   | 1231.8  | 4218.8  | 4300.0  | 4216.0  |
| 85°   | 184.8   | 184.8   | 179.2   | 201.6   | 293.9   | 405.9   | 671.9   | 2583.9  | 2018.4  | 1920.5  |
| 87.5° | 75.6    | 61.6    | 70.0    | 81.2    | 140.0   | 165.2   | 263.2   | 531.9   | 204.4   | 187.6   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)