

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: P654089

Luminaire Tested: **GLAN-SA9A-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P654089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20351.4 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

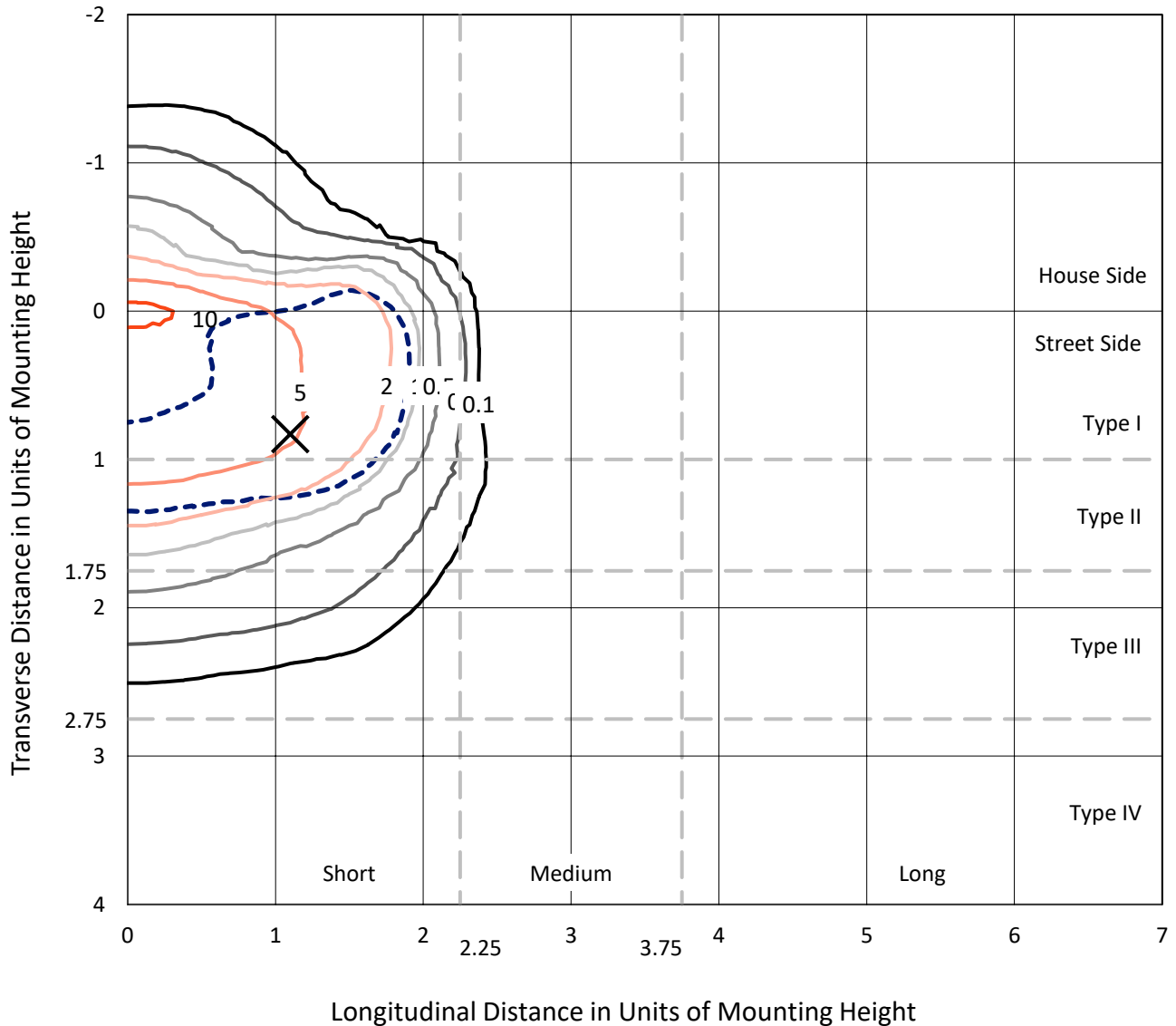
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

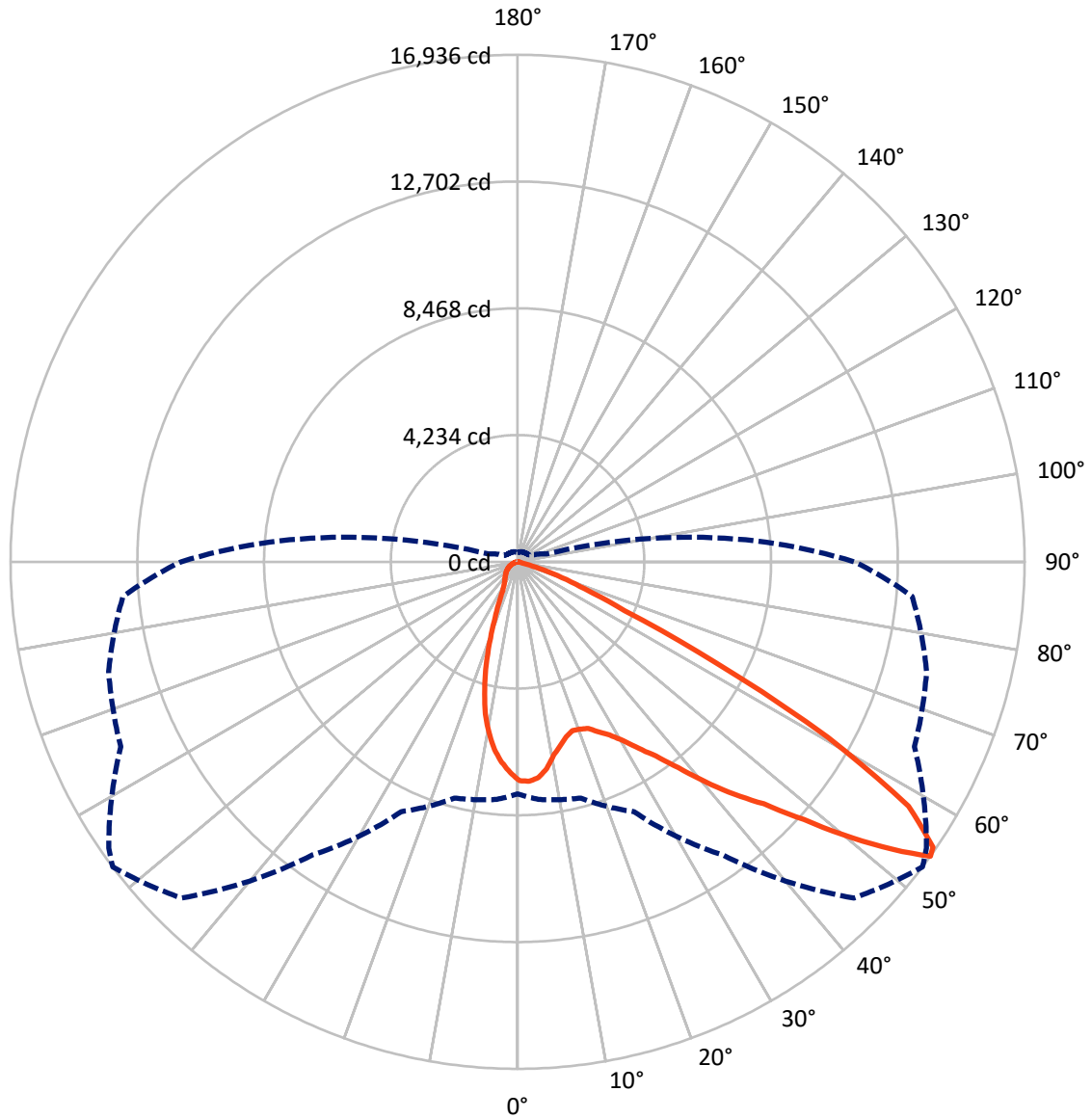
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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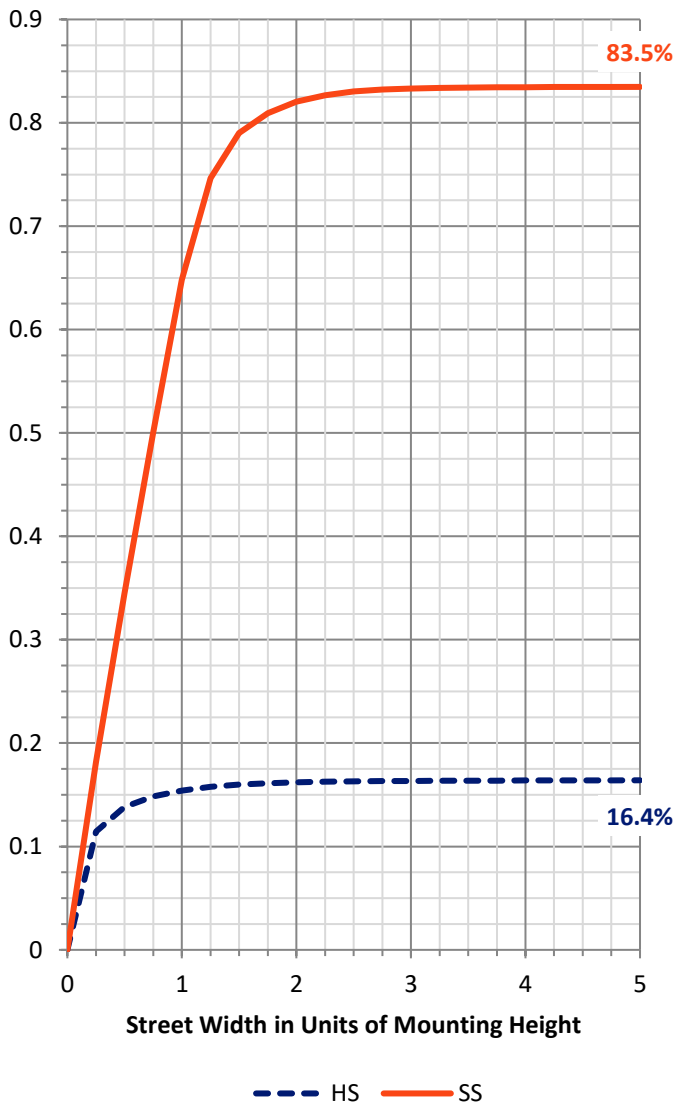
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3367.2 | 0.0 | 3367.2 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 16984.2 | 0.0 | 16984.2 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 20351.4 | 0.0 | 20351.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 627.2 | 3.1 |
| 10°-20° | 1437.9 | 7.1 |
| 20°-30° | 2043.6 | 10.0 |
| 30°-40° | 3153.8 | 15.5 |
| 40°-50° | 4944.8 | 24.3 |
| 50°-60° | 5744.1 | 28.2 |
| 60°-70° | 2170.5 | 10.7 |
| 70°-80° | 206.4 | 1.0 |
| 80°-90° | 23.2 | 0.1 |
| 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° | 20351.4 | 100.0 |
| 0°-180° | 20351.4 | 100.0 |

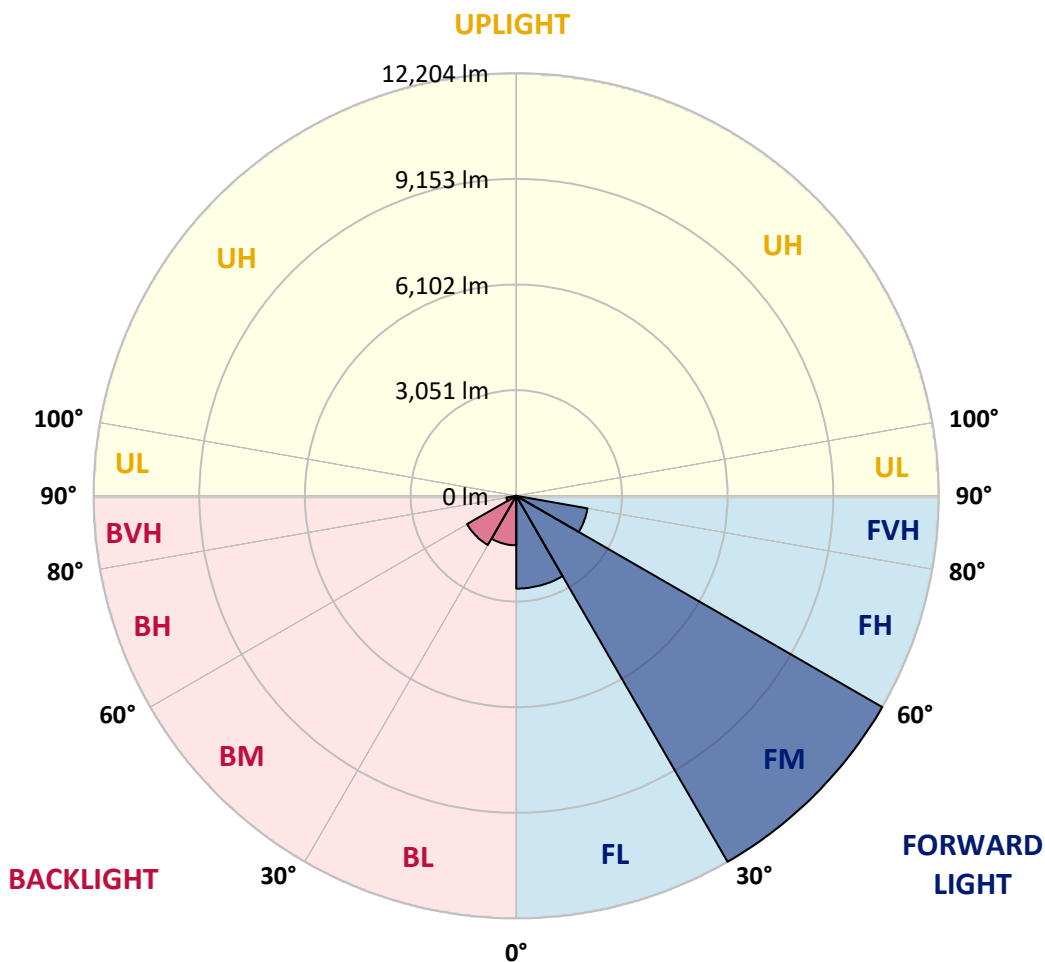


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2679.7 | 13.2 | | | |
| FM (30°-60°) | 12204.1 | 60.0 | | | |
| FH (60°-80°) | 2088.4 | 10.3 | | | G2/5000 |
| FVH (80°-90°) | 12.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1428.9 | 7.0 | B3/2500 | | |
| BM (30°-60°) | 1638.6 | 8.1 | B2/2500 | | |
| BH (60°-80°) | 288.5 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.2 | 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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7309.9 | 7309.9 | 7309.9 | 7309.9 | 7309.9 | 7309.9 | 7309.9 | 7309.9 | 7309.9 | 7309.9 | 7309.9 |
| 2.5° | 7272.0 | 7207.5 | 7272.0 | 7279.5 | 7325.0 | 7366.7 | 7340.2 | 7400.9 | 7366.7 | 7328.8 | 7317.5 |
| 5° | 6684.3 | 6771.5 | 6775.3 | 6911.8 | 6881.4 | 7131.7 | 7241.6 | 7211.3 | 7397.1 | 7385.7 | 7359.2 |
| 7.5° | 6157.3 | 6123.2 | 6168.7 | 6327.9 | 6528.9 | 6817.0 | 6976.2 | 6972.4 | 7237.8 | 7427.4 | 7408.5 |
| 10° | 5668.2 | 5664.4 | 5759.2 | 5884.3 | 6054.9 | 6358.2 | 6578.1 | 6688.1 | 7101.3 | 7389.4 | 7431.2 |
| 12.5° | 5338.3 | 5323.2 | 5425.5 | 5527.9 | 5797.1 | 6032.2 | 6312.7 | 6365.8 | 6839.8 | 7256.8 | 7325.0 |
| 15° | 5122.2 | 5156.3 | 5163.9 | 5361.0 | 5531.7 | 5842.6 | 6062.5 | 6172.4 | 6718.4 | 7150.6 | 7412.2 |
| 17.5° | 5084.3 | 5129.8 | 5133.5 | 5296.6 | 5478.6 | 5740.2 | 5933.6 | 6081.4 | 6616.1 | 7203.7 | 7416.0 |
| 20° | 5160.1 | 5133.5 | 5156.3 | 5258.7 | 5436.9 | 5687.1 | 5967.7 | 6017.0 | 6581.9 | 7230.2 | 7457.7 |
| 22.5° | 5376.3 | 5368.7 | 5311.8 | 5395.2 | 5520.3 | 5782.0 | 6047.3 | 6123.2 | 6680.5 | 7366.7 | 7491.9 |
| 25° | 5615.1 | 5656.8 | 5603.8 | 5592.3 | 5679.5 | 5937.4 | 6290.0 | 6388.6 | 7010.3 | 7613.2 | 7598.0 |
| 27.5° | 6062.5 | 6020.8 | 6020.8 | 5967.7 | 5944.9 | 6070.1 | 6551.6 | 6714.6 | 7378.1 | 7931.6 | 7719.4 |
| 30° | 6490.9 | 6536.4 | 6502.3 | 6521.3 | 6369.6 | 6358.2 | 6923.1 | 7124.1 | 8030.2 | 8417.0 | 7977.1 |
| 32.5° | 7169.6 | 7108.9 | 7165.8 | 7116.5 | 6915.5 | 6710.8 | 7427.4 | 7635.9 | 8818.8 | 8974.3 | 8363.9 |
| 35° | 7734.5 | 7707.9 | 7950.6 | 7943.0 | 7616.9 | 7416.0 | 7962.0 | 8272.9 | 9368.6 | 9641.6 | 8818.8 |
| 37.5° | 8538.3 | 8489.0 | 8765.7 | 8898.5 | 8606.5 | 8307.0 | 8727.9 | 9088.0 | 9880.5 | 10176.2 | 9285.2 |
| 40° | 9364.8 | 9489.9 | 9861.5 | 10081.4 | 9770.5 | 9372.4 | 9664.4 | 9774.3 | 10221.7 | 10525.0 | 9603.7 |
| 42.5° | 10411.2 | 10593.2 | 10972.4 | 11161.9 | 11135.4 | 10703.2 | 10616.0 | 10612.2 | 10468.1 | 10426.4 | 9838.8 |
| 45° | 11416.0 | 11347.7 | 11931.6 | 12344.9 | 12678.5 | 12553.4 | 11533.5 | 11419.8 | 10858.7 | 10574.3 | 9899.4 |
| 47.5° | 11855.7 | 11833.0 | 12231.2 | 12966.7 | 14104.1 | 14259.6 | 12868.1 | 12428.3 | 11518.3 | 11196.1 | 10229.3 |
| 50° | 11287.1 | 11404.6 | 11798.9 | 12614.1 | 14358.1 | 15544.9 | 14506.0 | 13914.5 | 12288.0 | 11954.4 | 11010.3 |
| 52.5° | 9429.3 | 9508.9 | 9884.3 | 10919.3 | 13493.7 | 16303.1 | 16075.6 | 15734.4 | 13702.2 | 13148.7 | 12371.4 |
| 54° | 7753.4 | 7965.8 | 8170.5 | 9209.4 | 11954.4 | 15882.3 | 16936.3 | 16674.7 | 14623.6 | 14142.0 | 13228.3 |
| 55° | 6752.6 | 6877.6 | 7025.5 | 8060.6 | 10888.9 | 15169.5 | 16837.7 | 16860.5 | 15241.5 | 14452.9 | 13804.6 |
| 57.5° | 4932.6 | 5019.8 | 4868.2 | 5327.0 | 7476.7 | 12318.3 | 15400.7 | 16015.0 | 16075.6 | 14919.3 | 14157.1 |
| 60° | 3768.7 | 3806.6 | 3636.0 | 3708.1 | 4648.3 | 8454.9 | 11912.7 | 12652.0 | 14502.2 | 13038.7 | 11992.2 |
| 62.5° | 2923.1 | 2930.8 | 2927.0 | 3052.1 | 3203.8 | 4974.3 | 7450.2 | 8106.1 | 9998.0 | 9258.7 | 8144.0 |
| 65° | 2153.5 | 2119.4 | 2180.0 | 2559.2 | 2733.6 | 3127.9 | 3924.1 | 4401.9 | 5433.1 | 4587.7 | 3279.6 |
| 67.5° | 1395.2 | 1406.7 | 1467.3 | 1903.3 | 2343.1 | 2400.0 | 2415.1 | 2377.3 | 2381.0 | 1311.8 | 822.8 |
| 70° | 837.9 | 856.9 | 837.9 | 1076.7 | 1675.8 | 1721.3 | 1573.4 | 1535.5 | 1198.1 | 310.9 | 307.1 |
| 72.5° | 496.7 | 470.1 | 420.8 | 462.6 | 697.6 | 834.1 | 750.7 | 746.9 | 470.1 | 182.0 | 182.0 |
| 75° | 208.6 | 189.6 | 155.4 | 140.3 | 185.8 | 178.2 | 178.2 | 159.2 | 125.1 | 121.4 | 113.7 |
| 77.5° | 41.7 | 41.7 | 30.4 | 34.1 | 45.5 | 53.1 | 64.4 | 64.4 | 75.9 | 75.9 | 72.1 |
| 80° | 0.0 | 3.8 | 11.4 | 22.7 | 34.1 | 49.3 | 56.9 | 56.9 | 64.4 | 64.4 | 53.1 |
| 82.5° | 0.0 | 3.8 | 11.4 | 22.7 | 30.4 | 45.5 | 56.9 | 56.9 | 64.4 | 68.2 | 56.9 |
| 85° | 0.0 | 3.8 | 11.4 | 18.9 | 30.4 | 37.9 | 37.9 | 34.1 | 26.6 | 22.7 | 15.1 |
| 87.5° | 0.0 | 0.0 | 3.8 | 7.6 | 3.8 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 |
| 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° | 7309.9 | 7309.9 | 7309.9 | 7309.9 | 7309.9 | 7309.9 | 7309.9 | 7309.9 | 7309.9 | 7309.9 | 7309.9 |
| 2.5° | 7343.9 | 7340.2 | 7249.2 | 7101.3 | 7067.2 | 6942.1 | 6926.9 | 6851.1 | 6892.8 | 6752.6 | 6737.3 |
| 5° | 7283.3 | 7237.8 | 7127.9 | 7033.1 | 6756.3 | 6559.1 | 6403.7 | 6214.1 | 6104.2 | 6123.2 | 6051.1 |
| 7.5° | 7370.5 | 7253.0 | 7059.6 | 6729.8 | 6392.4 | 6047.3 | 5861.5 | 5474.8 | 5334.5 | 5126.0 | 5095.7 |
| 10° | 7279.5 | 7192.3 | 6892.8 | 6346.9 | 5880.5 | 5383.8 | 4947.8 | 4519.4 | 4193.3 | 4053.0 | 4022.7 |
| 12.5° | 7272.0 | 7120.3 | 6619.8 | 6013.2 | 5338.3 | 4625.5 | 3992.4 | 3457.8 | 3135.5 | 2953.5 | 2911.8 |
| 15° | 7154.4 | 6972.4 | 6312.7 | 5497.5 | 4564.9 | 3677.7 | 2987.7 | 2472.0 | 2225.5 | 2119.4 | 2149.8 |
| 17.5° | 7165.8 | 6892.8 | 6005.6 | 4951.6 | 3802.8 | 2699.5 | 2039.8 | 1774.4 | 1709.9 | 1736.5 | 1736.5 |
| 20° | 7154.4 | 6714.6 | 5634.0 | 4322.2 | 2911.8 | 1873.0 | 1497.7 | 1402.8 | 1444.5 | 1527.9 | 1509.0 |
| 22.5° | 7093.8 | 6631.2 | 5292.8 | 3658.7 | 2142.2 | 1387.6 | 1201.9 | 1205.7 | 1270.2 | 1372.5 | 1395.2 |
| 25° | 7139.2 | 6445.4 | 4860.6 | 2987.7 | 1562.1 | 1107.1 | 1042.7 | 1069.2 | 1137.5 | 1213.2 | 1228.4 |
| 27.5° | 7105.1 | 6312.7 | 4409.4 | 2320.3 | 1141.2 | 951.7 | 947.9 | 978.2 | 1008.5 | 1065.4 | 1065.4 |
| 30° | 7143.0 | 6191.4 | 3965.8 | 1725.1 | 940.2 | 872.0 | 856.9 | 879.6 | 910.0 | 921.3 | 917.5 |
| 32.5° | 7283.3 | 6100.4 | 3454.0 | 1289.1 | 830.3 | 796.2 | 796.2 | 796.2 | 792.4 | 807.6 | 811.4 |
| 35° | 7590.4 | 6115.6 | 3002.8 | 997.2 | 758.2 | 731.8 | 720.4 | 705.2 | 697.6 | 705.2 | 709.0 |
| 37.5° | 7924.1 | 6108.0 | 2536.5 | 849.2 | 705.2 | 682.5 | 655.9 | 633.2 | 629.4 | 637.0 | 625.6 |
| 40° | 8071.9 | 6180.0 | 2104.3 | 762.1 | 655.9 | 629.4 | 587.7 | 568.7 | 572.5 | 580.1 | 572.5 |
| 42.5° | 8272.9 | 6202.8 | 1823.7 | 693.8 | 610.4 | 568.7 | 542.2 | 519.4 | 515.6 | 527.0 | 523.2 |
| 45° | 8269.1 | 6073.9 | 1527.9 | 655.9 | 568.7 | 523.2 | 489.1 | 470.1 | 470.1 | 477.7 | 481.5 |
| 47.5° | 8511.8 | 6054.9 | 1311.8 | 621.8 | 538.4 | 492.9 | 451.2 | 436.0 | 432.2 | 432.2 | 424.6 |
| 50° | 9076.7 | 6320.3 | 1145.0 | 583.9 | 500.5 | 458.8 | 424.6 | 405.7 | 390.5 | 382.9 | 379.1 |
| 52.5° | 10180.0 | 7146.8 | 1016.1 | 538.4 | 458.8 | 424.6 | 394.3 | 379.1 | 360.2 | 341.2 | 337.4 |
| 54° | 11249.1 | 7999.9 | 1008.5 | 500.5 | 424.6 | 401.9 | 375.3 | 367.8 | 345.0 | 318.5 | 310.9 |
| 55° | 11730.7 | 8496.5 | 1035.0 | 470.1 | 401.9 | 386.7 | 364.0 | 356.4 | 333.6 | 303.3 | 299.6 |
| 57.5° | 12128.7 | 8690.0 | 1019.9 | 390.5 | 364.0 | 360.2 | 341.2 | 329.8 | 303.3 | 261.6 | 254.1 |
| 60° | 9762.9 | 6570.6 | 731.8 | 345.0 | 333.6 | 326.1 | 310.9 | 303.3 | 269.2 | 223.7 | 219.9 |
| 62.5° | 6168.7 | 3780.0 | 466.3 | 303.3 | 291.9 | 280.6 | 261.6 | 254.1 | 223.7 | 178.2 | 166.9 |
| 65° | 2627.5 | 1565.9 | 314.7 | 269.2 | 250.2 | 231.3 | 216.1 | 204.7 | 178.2 | 132.7 | 128.9 |
| 67.5° | 682.5 | 557.3 | 261.6 | 235.1 | 208.6 | 182.0 | 170.6 | 151.6 | 121.4 | 91.0 | 87.2 |
| 70° | 307.1 | 280.6 | 219.9 | 197.1 | 166.9 | 140.3 | 125.1 | 106.1 | 79.6 | 60.6 | 56.9 |
| 72.5° | 182.0 | 178.2 | 166.9 | 147.8 | 125.1 | 106.1 | 91.0 | 72.1 | 53.1 | 34.1 | 34.1 |
| 75° | 113.7 | 109.9 | 113.7 | 102.3 | 87.2 | 79.6 | 68.2 | 49.3 | 30.4 | 15.1 | 15.1 |
| 77.5° | 68.2 | 68.2 | 68.2 | 64.4 | 60.6 | 60.6 | 49.3 | 30.4 | 15.1 | 3.8 | 3.8 |
| 80° | 53.1 | 53.1 | 56.9 | 53.1 | 53.1 | 53.1 | 41.7 | 22.7 | 7.6 | 0.0 | 0.0 |
| 82.5° | 53.1 | 56.9 | 64.4 | 60.6 | 53.1 | 45.5 | 37.9 | 22.7 | 7.6 | 0.0 | 0.0 |
| 85° | 15.1 | 11.4 | 18.9 | 26.6 | 37.9 | 34.1 | 26.6 | 18.9 | 7.6 | 0.0 | 0.0 |
| 87.5° | 7.6 | 7.6 | 7.6 | 7.6 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 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)