

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: P649476

Luminaire Tested: **GLAN-SA6D-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649476
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-SA6D-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1200mA 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: 35601.4 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

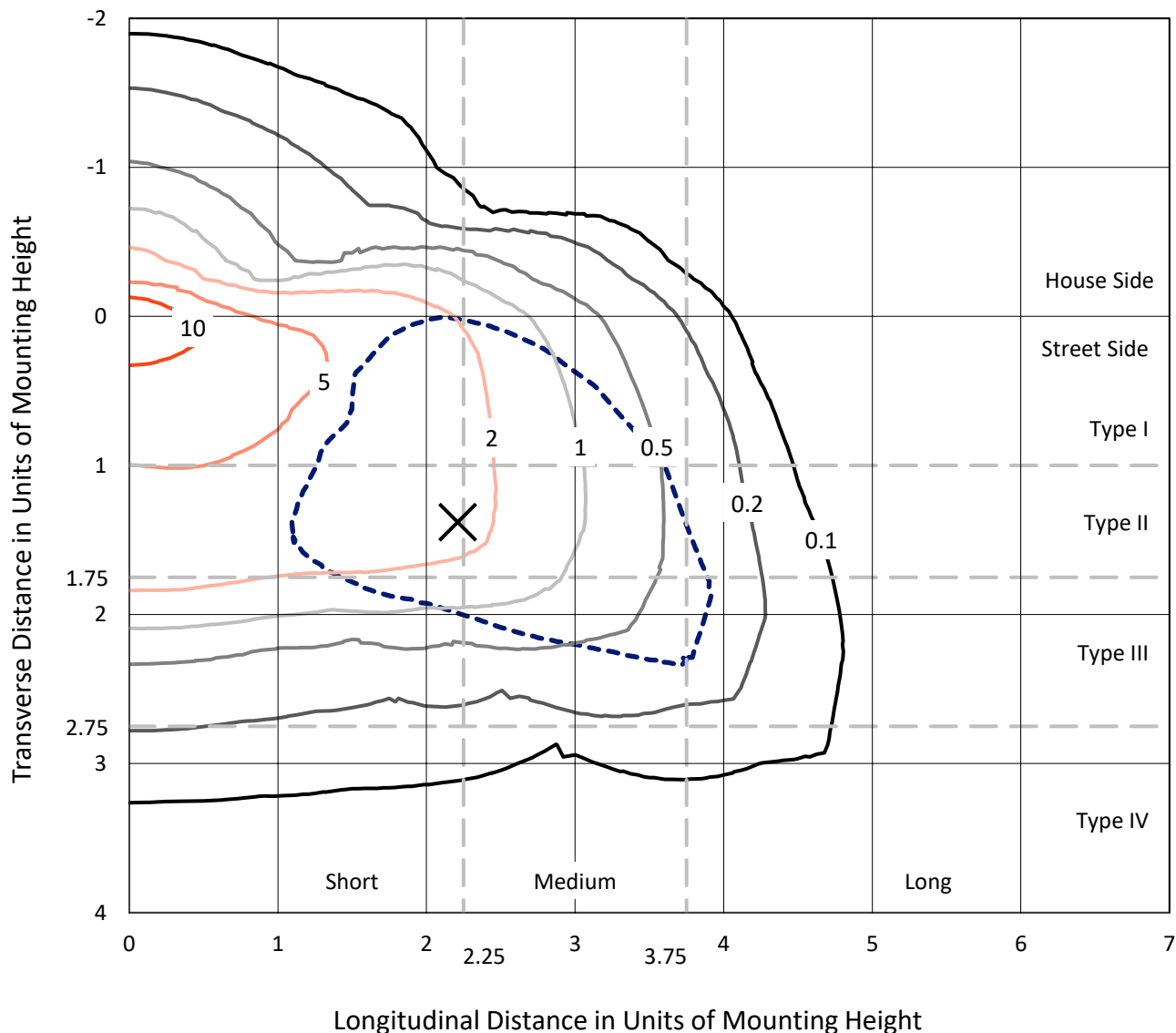
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

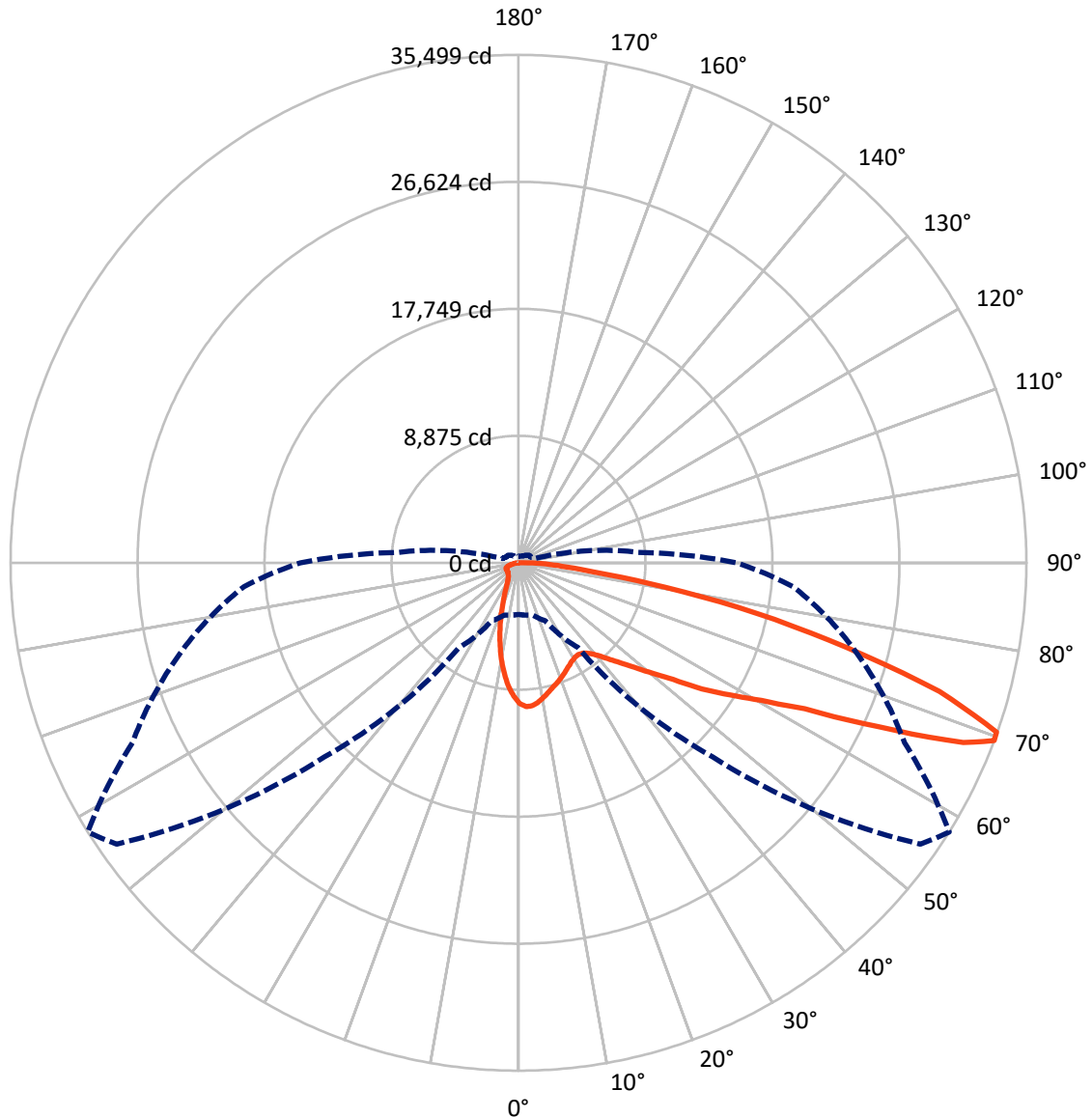
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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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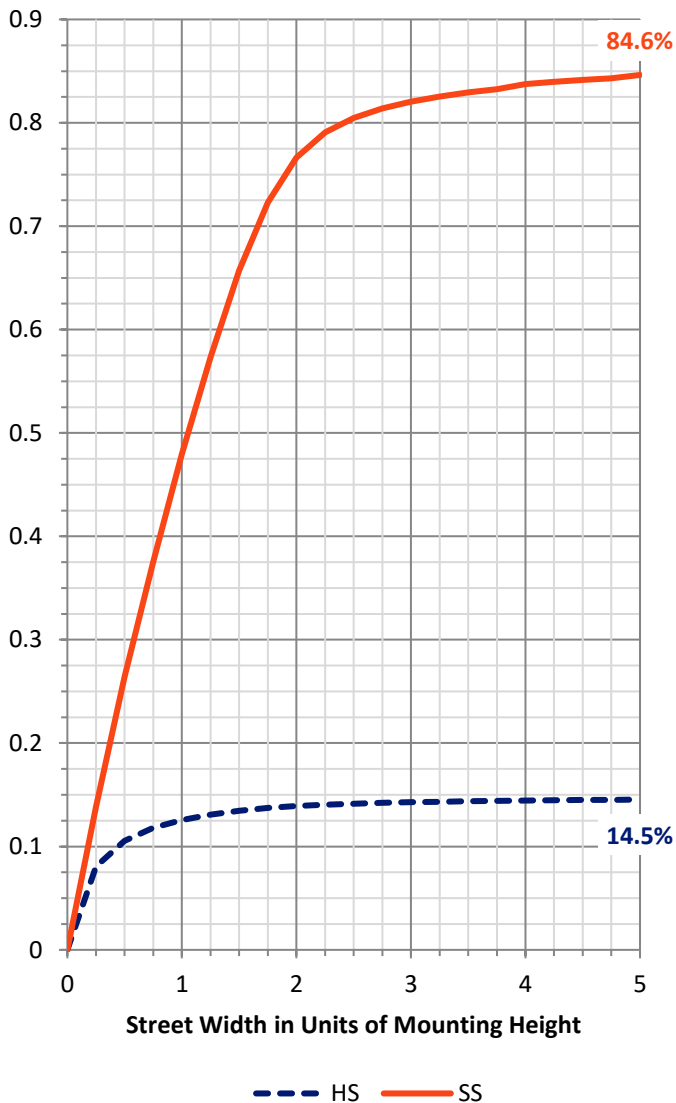
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5217.4 | 0.0 | 5217.4 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 30384.1 | 0.0 | 30384.1 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 35601.4 | 0.0 | 35601.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 835.5 | 2.3 |
| 10°-20° | 1834.6 | 5.2 |
| 20°-30° | 2370.3 | 6.7 |
| 30°-40° | 3078.6 | 8.6 |
| 40°-50° | 4475.9 | 12.6 |
| 50°-60° | 7142.0 | 20.1 |
| 60°-70° | 9540.8 | 26.8 |
| 70°-80° | 5499.9 | 15.4 |
| 80°-90° | 823.8 | 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° | 35601.4 | 100.0 |
| 0°-180° | 35601.4 | 100.0 |



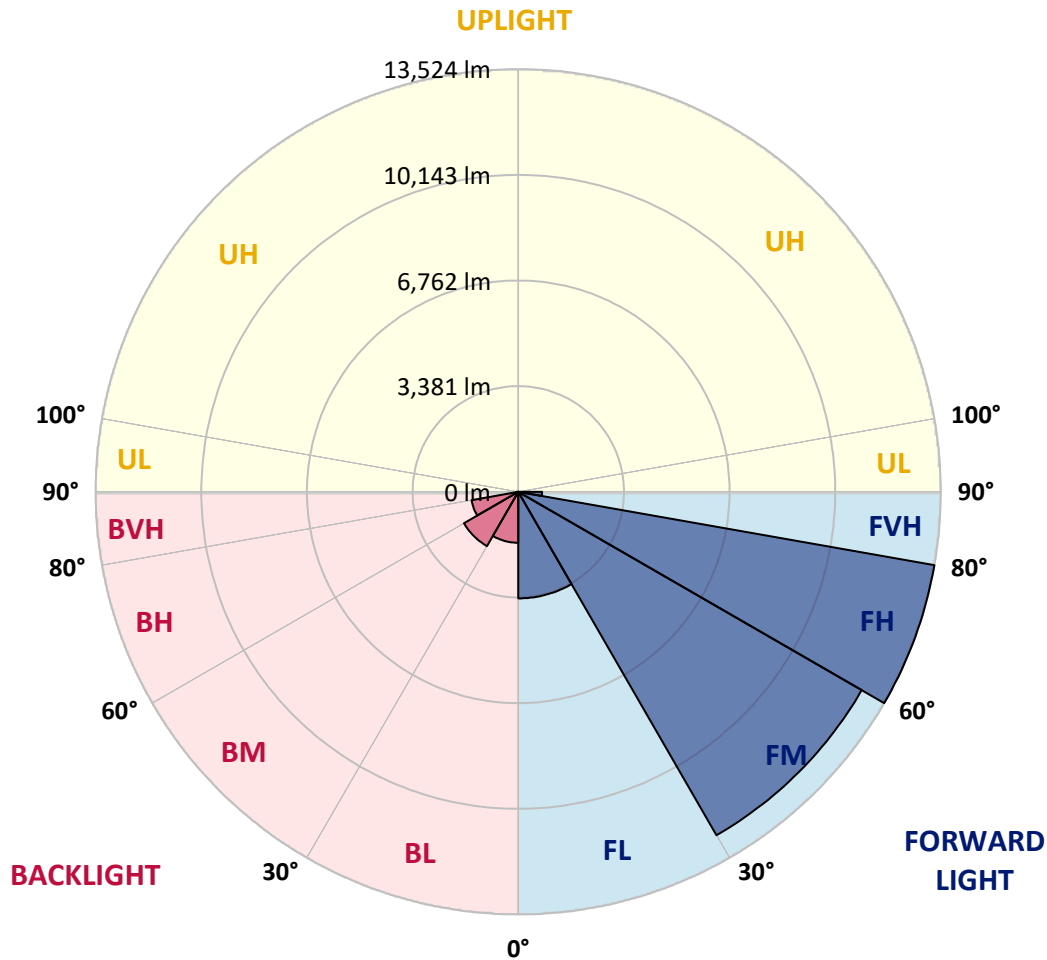
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3409.7 | 9.6 | | | |
| FM (30°-60°) | 12690.1 | 35.6 | | | |
| FH (60°-80°) | 13523.6 | 38.0 | | | G5 |
| FVH (80°-90°) | 760.7 | 2.1 | | | G5 |
| BL (0°-30°) | 1630.7 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 2006.4 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 1517.1 | 4.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 63.1 | 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° | 9838.2 | 9838.2 | 9838.2 | 9838.2 | 9838.2 | 9838.2 | 9838.2 | 9838.2 | 9838.2 | 9838.2 | 9838.2 |
| 2.5° | 10203.5 | 10231.3 | 10223.3 | 10213.5 | 10197.6 | 10153.9 | 10082.4 | 10070.5 | 10024.8 | 9927.5 | 9806.4 |
| 5° | 10046.6 | 10070.5 | 10072.4 | 10086.4 | 10106.2 | 10098.3 | 10046.6 | 10040.6 | 9973.1 | 9842.2 | 9639.6 |
| 7.5° | 9508.6 | 9540.3 | 9609.8 | 9687.3 | 9756.7 | 9822.3 | 9838.2 | 9848.1 | 9806.4 | 9655.5 | 9385.4 |
| 10° | 8903.0 | 8934.7 | 8966.5 | 9081.7 | 9252.4 | 9415.3 | 9550.3 | 9568.1 | 9578.0 | 9439.1 | 9109.5 |
| 12.5° | 8231.9 | 8297.4 | 8364.9 | 8535.6 | 8764.0 | 9020.2 | 9258.4 | 9296.1 | 9363.6 | 9258.4 | 8871.2 |
| 15° | 7662.0 | 7729.5 | 7826.9 | 7979.7 | 8255.7 | 8625.0 | 8960.6 | 9022.1 | 9155.1 | 9101.5 | 8648.9 |
| 17.5° | 7266.9 | 7290.7 | 7358.2 | 7533.0 | 7830.8 | 8219.9 | 8668.7 | 8791.8 | 9004.3 | 8990.3 | 8458.2 |
| 20° | 6955.2 | 6985.0 | 7026.7 | 7133.9 | 7443.7 | 7854.7 | 8396.7 | 8555.5 | 8843.4 | 8891.0 | 8269.6 |
| 22.5° | 6824.2 | 6846.0 | 6840.1 | 6897.6 | 7108.1 | 7521.1 | 8120.7 | 8309.4 | 8700.5 | 8823.5 | 8094.9 |
| 25° | 6832.1 | 6852.0 | 6822.2 | 6808.3 | 6933.4 | 7227.2 | 7832.8 | 8073.0 | 8585.3 | 8777.9 | 7936.0 |
| 27.5° | 6965.1 | 6979.0 | 6923.4 | 6867.8 | 6877.8 | 7044.6 | 7594.6 | 7860.6 | 8488.0 | 8797.8 | 7803.0 |
| 30° | 7143.9 | 7169.6 | 7133.9 | 7066.4 | 6992.9 | 7000.9 | 7441.6 | 7703.8 | 8442.4 | 8867.2 | 7739.5 |
| 32.5° | 7374.1 | 7397.9 | 7382.1 | 7328.5 | 7233.2 | 7128.0 | 7404.0 | 7646.2 | 8446.3 | 9008.2 | 7725.5 |
| 35° | 7616.4 | 7664.0 | 7689.8 | 7685.8 | 7608.4 | 7425.7 | 7552.8 | 7753.3 | 8541.6 | 9244.5 | 7807.0 |
| 37.5° | 7890.4 | 7930.1 | 8041.3 | 8112.7 | 8041.3 | 7828.8 | 7888.4 | 8027.4 | 8752.1 | 9586.0 | 7985.7 |
| 40° | 8156.4 | 8216.0 | 8378.8 | 8601.2 | 8573.4 | 8386.8 | 8400.7 | 8491.9 | 9123.4 | 10094.3 | 8335.1 |
| 42.5° | 8434.4 | 8505.9 | 8789.8 | 9119.4 | 9184.9 | 9040.0 | 9077.7 | 9159.1 | 9651.5 | 10799.1 | 8934.7 |
| 45° | 8791.8 | 8877.2 | 9226.6 | 9637.6 | 9895.7 | 9806.4 | 9913.6 | 9953.3 | 10358.4 | 11716.4 | 9725.0 |
| 47.5° | 9252.4 | 9351.7 | 9782.6 | 10294.8 | 10660.2 | 10741.6 | 10928.2 | 10904.4 | 11233.9 | 12802.5 | 10749.5 |
| 50° | 10028.7 | 10084.3 | 10491.4 | 11013.6 | 11515.9 | 11883.2 | 12085.8 | 12123.5 | 12320.0 | 13858.8 | 11895.1 |
| 52.5° | 10952.1 | 11001.6 | 11295.5 | 11752.2 | 12381.6 | 13159.9 | 13660.2 | 13537.1 | 13584.8 | 15145.4 | 13235.4 |
| 55° | 11990.5 | 12073.9 | 12260.4 | 12564.3 | 13380.3 | 14525.9 | 15530.6 | 15560.4 | 15032.2 | 16376.4 | 14520.0 |
| 57.5° | 12794.5 | 12935.6 | 13255.2 | 13688.0 | 14722.5 | 16044.8 | 17395.0 | 17414.9 | 16739.8 | 17690.8 | 15937.6 |
| 60° | 12389.5 | 12556.3 | 13287.0 | 14341.3 | 16483.6 | 18695.5 | 19622.7 | 19509.5 | 18401.6 | 19187.9 | 17667.0 |
| 62.5° | 10642.3 | 10672.1 | 11734.3 | 13382.3 | 17025.6 | 22241.6 | 22938.5 | 22460.0 | 20619.4 | 21086.0 | 19424.1 |
| 65° | 6887.7 | 7082.3 | 7924.1 | 10233.3 | 15244.7 | 24209.2 | 28748.1 | 27642.2 | 23728.7 | 23240.3 | 20895.4 |
| 67.5° | 4348.2 | 4298.6 | 4648.0 | 5843.3 | 10485.5 | 22475.9 | 33705.9 | 33531.1 | 27795.0 | 24600.4 | 20544.0 |
| 69° | 3605.6 | 3661.2 | 3780.4 | 4479.3 | 7215.3 | 19189.8 | 34291.6 | 35498.8 | 29766.6 | 24493.1 | 19267.3 |
| 70° | 3270.1 | 3296.0 | 3421.0 | 3971.0 | 5567.4 | 16072.6 | 33330.6 | 35445.2 | 30541.0 | 24044.4 | 18342.1 |
| 72.5° | 2595.0 | 2593.1 | 2807.5 | 3303.9 | 4161.6 | 9175.0 | 27368.1 | 30773.3 | 29675.3 | 21955.6 | 15155.4 |
| 75° | 1971.6 | 2003.4 | 2239.6 | 2795.6 | 3834.0 | 5013.4 | 19098.5 | 23698.9 | 23700.9 | 17341.3 | 9456.9 |
| 77.5° | 1421.6 | 1441.5 | 1717.4 | 2346.9 | 3611.6 | 4064.3 | 12721.1 | 16997.8 | 15979.3 | 7946.0 | 2972.3 |
| 80° | 931.2 | 943.1 | 1153.6 | 1858.5 | 3256.2 | 3834.0 | 7543.0 | 10404.0 | 7536.9 | 2108.6 | 982.8 |
| 82.5° | 510.3 | 569.9 | 704.9 | 1203.2 | 2612.9 | 3542.1 | 4584.5 | 5265.5 | 2827.3 | 939.1 | 512.2 |
| 85° | 256.1 | 272.0 | 397.1 | 702.9 | 1707.6 | 2930.6 | 3192.7 | 3020.0 | 1459.4 | 466.6 | 266.1 |
| 87.5° | 75.5 | 95.3 | 164.8 | 272.0 | 693.0 | 1526.9 | 1777.0 | 1594.3 | 561.9 | 168.7 | 55.6 |
| 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° | 9838.2 | 9838.2 | 9838.2 | 9838.2 | 9838.2 | 9838.2 | 9838.2 | 9838.2 | 9838.2 | 9838.2 | 9838.2 |
| 2.5° | 9756.7 | 9721.0 | 9562.2 | 9419.2 | 9288.2 | 9149.2 | 9032.1 | 8928.8 | 8938.7 | 8940.7 | 8835.5 |
| 5° | 9534.4 | 9453.0 | 9151.2 | 8869.2 | 8631.0 | 8329.2 | 8071.1 | 7904.3 | 7820.9 | 7709.7 | 7749.4 |
| 7.5° | 9232.6 | 9075.8 | 8656.8 | 8188.2 | 7749.4 | 7358.2 | 6933.4 | 6641.5 | 6454.9 | 6274.2 | 6298.0 |
| 10° | 8920.9 | 8668.7 | 8059.2 | 7439.7 | 6871.8 | 6246.4 | 5704.3 | 5239.8 | 4894.2 | 4765.2 | 4679.8 |
| 12.5° | 8601.2 | 8269.6 | 7495.3 | 6671.3 | 5887.0 | 5138.4 | 4370.1 | 3871.7 | 3490.5 | 3288.0 | 3313.8 |
| 15° | 8309.4 | 7906.3 | 6907.5 | 5902.9 | 4884.4 | 3992.8 | 3226.4 | 2751.9 | 2485.9 | 2430.3 | 2462.0 |
| 17.5° | 8039.3 | 7511.2 | 6357.6 | 5156.4 | 3967.0 | 2994.1 | 2424.3 | 2156.2 | 2049.0 | 2019.3 | 2017.2 |
| 20° | 7761.3 | 7175.6 | 5740.1 | 4358.2 | 3091.4 | 2321.0 | 1989.4 | 1864.4 | 1844.5 | 1856.4 | 1858.5 |
| 22.5° | 7479.4 | 6760.7 | 5104.7 | 3565.9 | 2462.0 | 1898.1 | 1739.3 | 1705.5 | 1721.4 | 1749.2 | 1753.2 |
| 25° | 7219.3 | 6395.3 | 4493.2 | 2871.0 | 1965.6 | 1667.8 | 1590.4 | 1590.4 | 1626.1 | 1667.8 | 1669.8 |
| 27.5° | 7004.9 | 6041.9 | 3883.6 | 2279.4 | 1645.9 | 1501.0 | 1475.3 | 1489.1 | 1538.8 | 1570.5 | 1572.5 |
| 30° | 6828.2 | 5712.3 | 3307.9 | 1826.7 | 1447.5 | 1368.0 | 1362.0 | 1385.9 | 1421.6 | 1451.4 | 1453.4 |
| 32.5° | 6695.1 | 5422.4 | 2769.8 | 1534.8 | 1310.4 | 1266.7 | 1264.8 | 1282.6 | 1302.5 | 1310.4 | 1318.3 |
| 35° | 6643.5 | 5182.1 | 2277.4 | 1350.1 | 1219.1 | 1191.3 | 1191.3 | 1189.3 | 1197.3 | 1201.2 | 1205.2 |
| 37.5° | 6685.2 | 4997.5 | 1896.2 | 1231.0 | 1151.6 | 1131.7 | 1119.8 | 1107.9 | 1104.0 | 1104.0 | 1105.9 |
| 40° | 6861.9 | 4900.2 | 1612.2 | 1153.6 | 1104.0 | 1074.1 | 1052.4 | 1038.4 | 1024.6 | 1028.5 | 1032.5 |
| 42.5° | 7237.1 | 4918.1 | 1419.7 | 1101.9 | 1062.2 | 1020.6 | 988.8 | 972.9 | 962.9 | 974.9 | 972.9 |
| 45° | 7834.8 | 5096.8 | 1296.6 | 1066.2 | 1020.6 | 966.9 | 937.2 | 921.3 | 921.3 | 939.1 | 945.1 |
| 47.5° | 8670.7 | 5438.2 | 1231.0 | 1038.4 | 988.8 | 925.3 | 895.4 | 883.5 | 887.5 | 917.3 | 919.3 |
| 50° | 9691.2 | 6031.9 | 1219.1 | 1024.6 | 972.9 | 895.4 | 861.7 | 849.8 | 859.7 | 891.5 | 895.4 |
| 52.5° | 10817.0 | 6796.4 | 1276.7 | 1026.5 | 959.0 | 877.6 | 833.9 | 816.0 | 826.0 | 851.7 | 859.7 |
| 55° | 12151.3 | 7753.3 | 1425.6 | 1034.4 | 939.1 | 867.6 | 814.1 | 774.3 | 786.3 | 804.1 | 806.1 |
| 57.5° | 13513.3 | 8960.6 | 1687.7 | 1036.5 | 923.2 | 849.8 | 780.3 | 728.7 | 728.7 | 740.6 | 746.5 |
| 60° | 15177.2 | 10275.0 | 2033.1 | 1038.4 | 925.3 | 824.0 | 734.6 | 677.1 | 669.2 | 675.1 | 677.1 |
| 62.5° | 16829.1 | 11375.0 | 2090.8 | 1032.5 | 945.1 | 798.2 | 685.0 | 625.5 | 611.5 | 609.6 | 605.6 |
| 65° | 17557.8 | 11170.4 | 1713.5 | 1004.7 | 966.9 | 782.3 | 645.3 | 575.8 | 551.9 | 544.0 | 544.0 |
| 67.5° | 16370.4 | 9449.0 | 1288.6 | 966.9 | 953.1 | 766.4 | 607.5 | 534.1 | 506.3 | 490.4 | 490.4 |
| 69° | 15254.6 | 8404.6 | 1157.5 | 941.2 | 917.3 | 740.6 | 583.7 | 512.2 | 478.5 | 460.6 | 454.7 |
| 70° | 14392.9 | 7685.8 | 1101.9 | 919.3 | 883.5 | 710.8 | 565.9 | 496.3 | 458.7 | 438.8 | 434.8 |
| 72.5° | 11486.1 | 6030.0 | 965.0 | 835.9 | 752.5 | 597.7 | 502.3 | 446.7 | 411.0 | 389.2 | 383.2 |
| 75° | 6619.6 | 3268.2 | 800.1 | 726.7 | 605.6 | 464.6 | 424.9 | 389.2 | 361.4 | 341.5 | 335.5 |
| 77.5° | 2037.1 | 1262.7 | 579.7 | 573.8 | 444.7 | 359.4 | 339.5 | 325.6 | 305.8 | 283.9 | 279.9 |
| 80° | 857.7 | 643.3 | 393.1 | 387.2 | 295.8 | 250.2 | 244.2 | 242.3 | 234.3 | 216.4 | 210.5 |
| 82.5° | 470.6 | 363.3 | 274.0 | 238.3 | 178.7 | 144.9 | 150.9 | 152.9 | 146.9 | 129.0 | 117.1 |
| 85° | 230.3 | 198.6 | 133.0 | 107.2 | 81.4 | 51.6 | 49.6 | 59.6 | 55.6 | 39.7 | 43.7 |
| 87.5° | 45.6 | 55.6 | 35.7 | 15.9 | 7.9 | 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)