

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: P529606

Luminaire Tested: **GLAN-SA4D-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4D-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25724 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

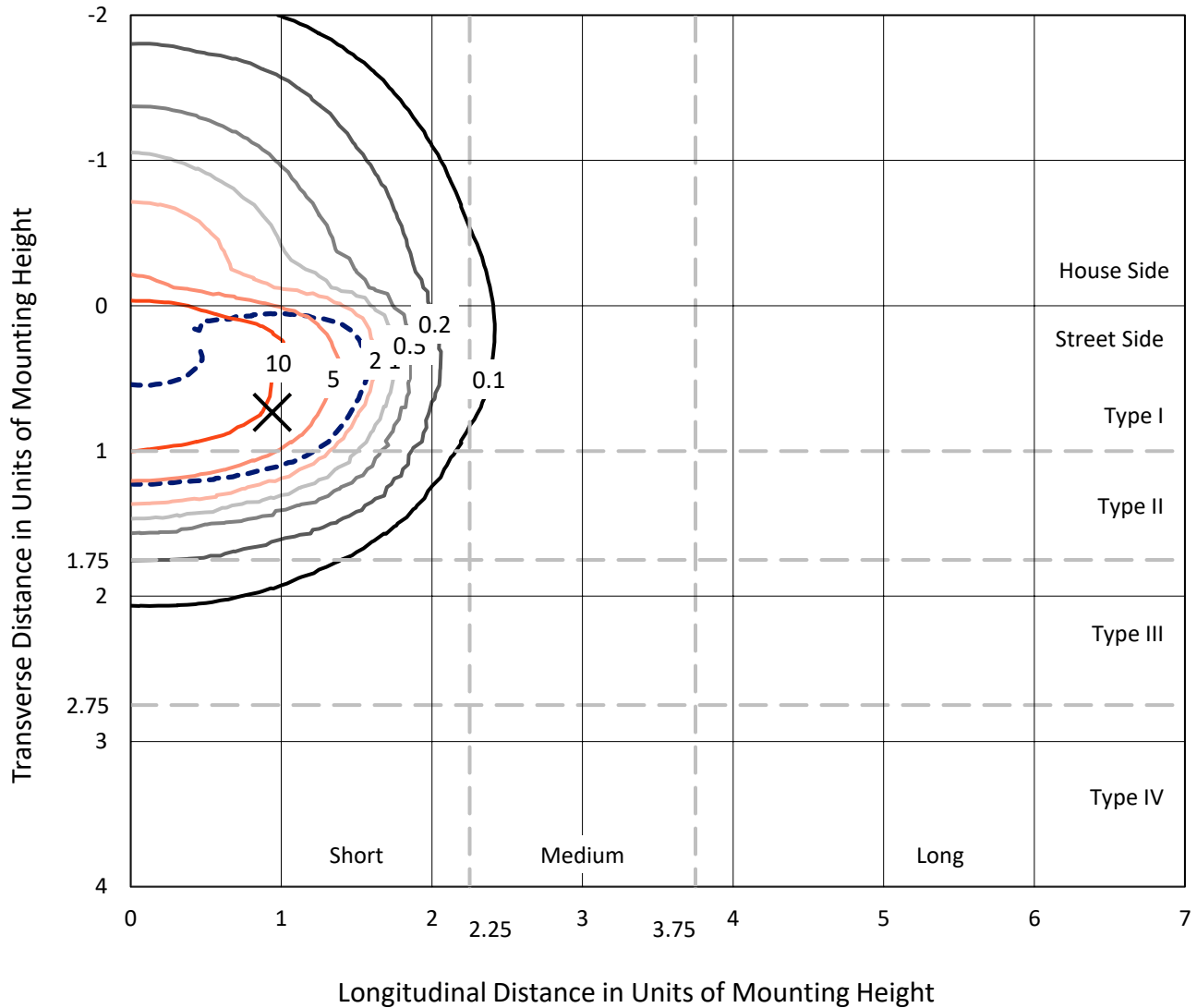
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

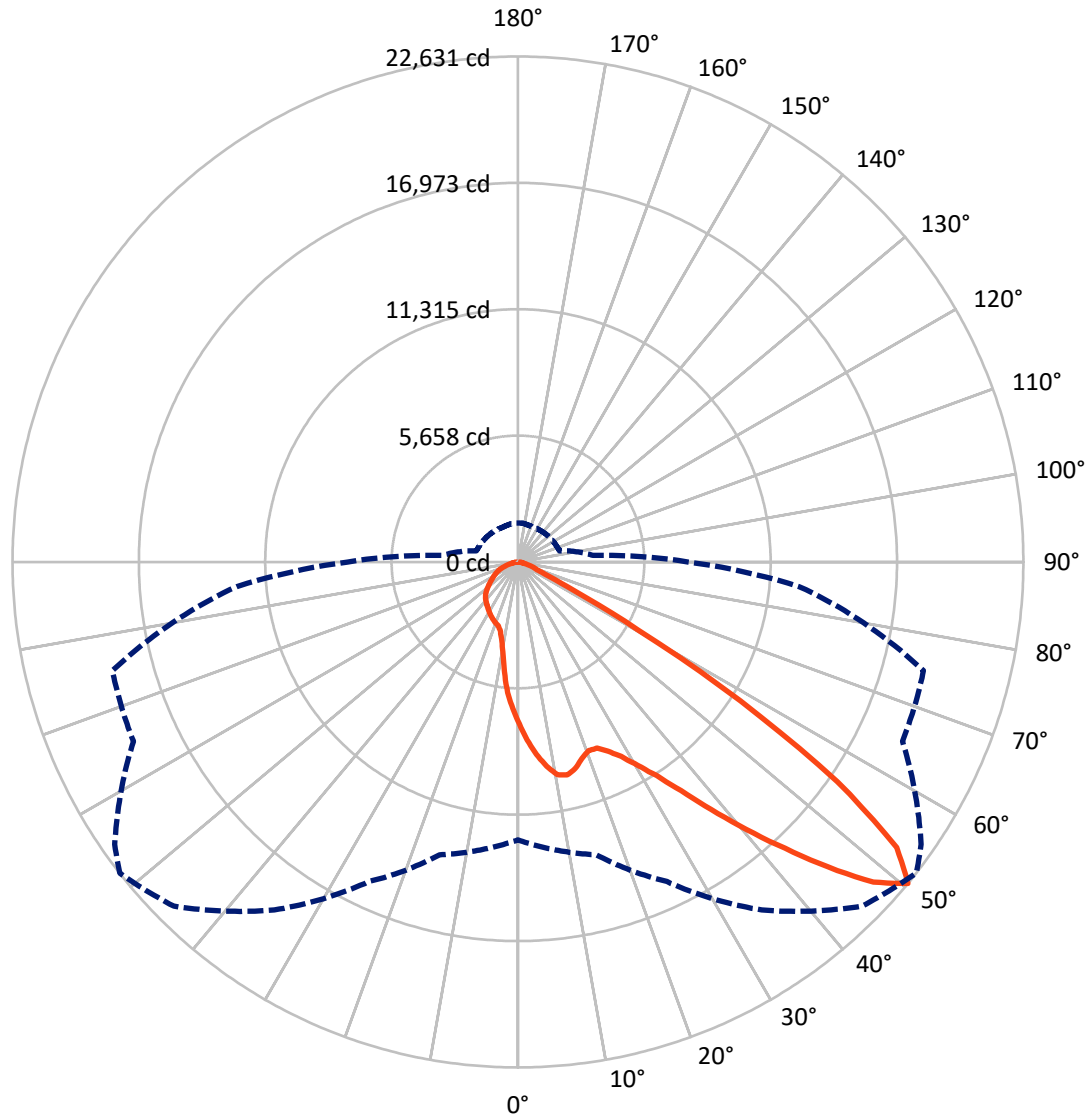
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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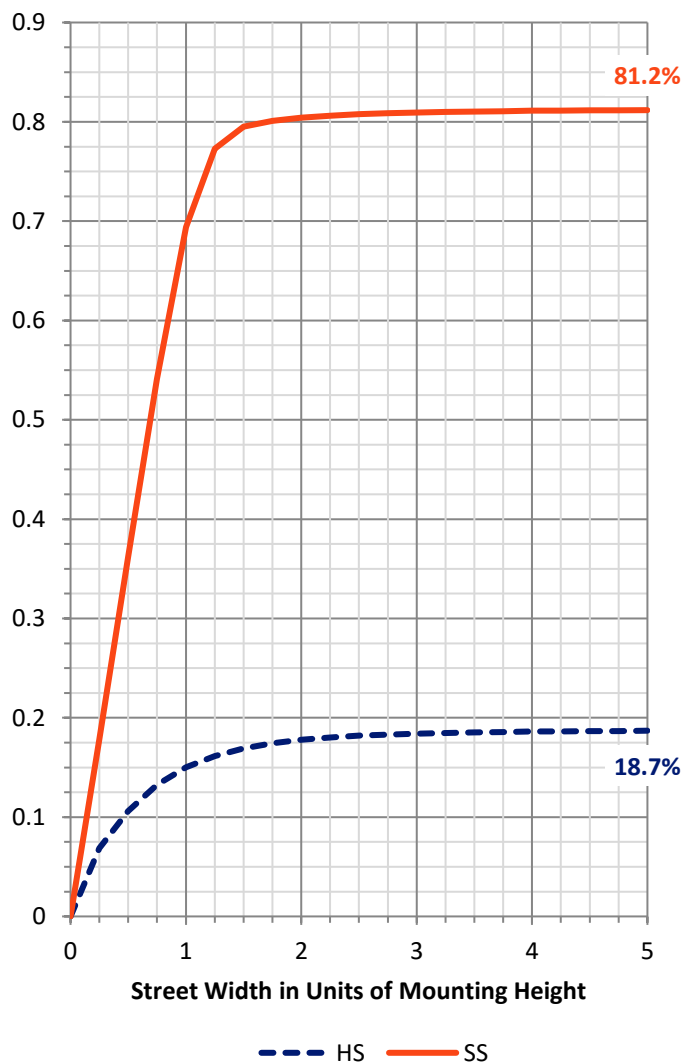
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4835.5 | 0.0 | 4835.5 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 20888.5 | 0.0 | 20888.5 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 25724.0 | 0.0 | 25724.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 668.3 | 2.6 |
| 10°-20° | 1791.3 | 7.0 |
| 20°-30° | 3017.4 | 11.7 |
| 30°-40° | 5063.4 | 19.7 |
| 40°-50° | 7745.8 | 30.1 |
| 50°-60° | 5647.3 | 22.0 |
| 60°-70° | 1256.8 | 4.9 |
| 70°-80° | 453.3 | 1.8 |
| 80°-90° | 80.2 | 0.3 |
| 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° | 25724.0 | 100.0 |
| 0°-180° | 25724.0 | 100.0 |

Coefficient of Utilization



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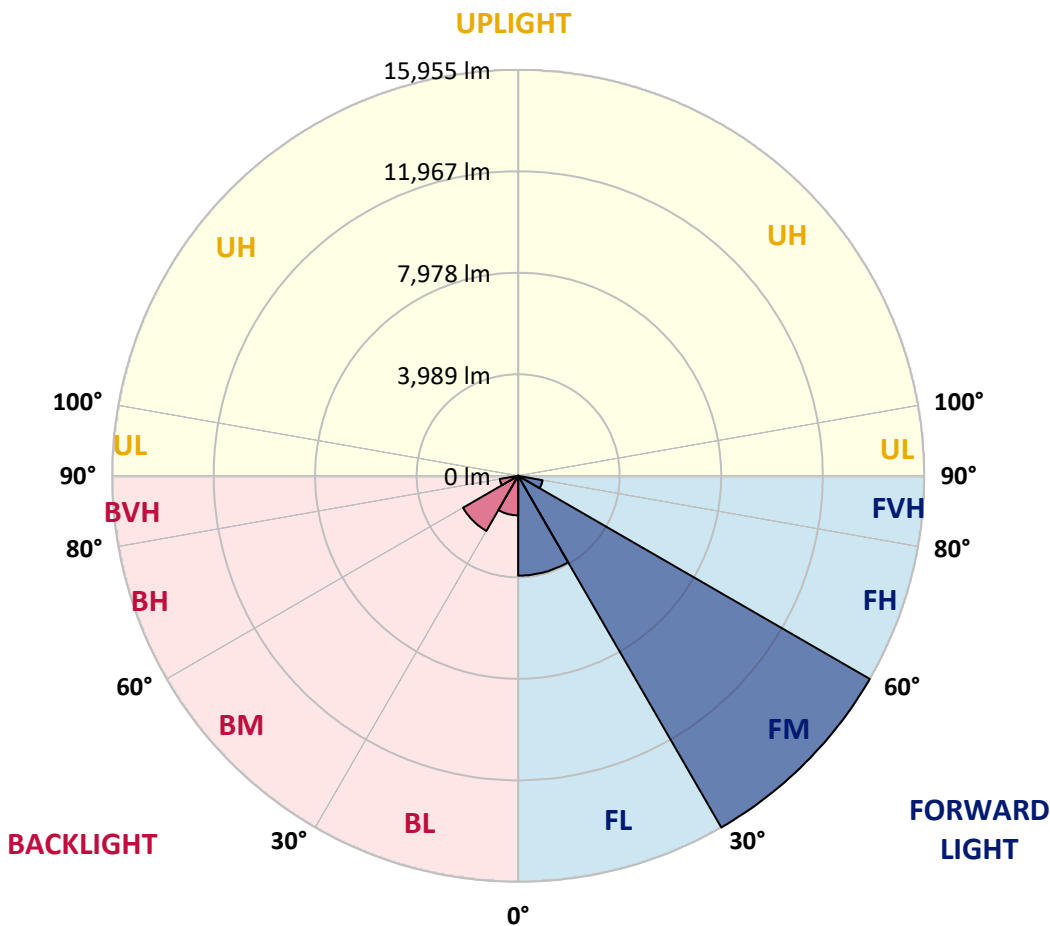
CATALOG NUMBER: GLAN-SA4D-735-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3923.8 | 15.3 | | | |
| FM (30°-60°) | 15955.3 | 62.0 | | | |
| FH (60°-80°) | 973.4 | 3.8 | | | G1/1800 |
| FVH (80°-90°) | 36.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1553.3 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 2501.3 | 9.7 | B3/5000 | | |
| BH (60°-80°) | 736.7 | 2.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 44.3 | 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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7251.2 | 7251.2 | 7251.2 | 7251.2 | 7251.2 | 7251.2 | 7251.2 | 7251.2 | 7251.2 | 7251.2 | 7251.2 |
| 2.5° | 8537.7 | 8373.4 | 8392.0 | 8274.2 | 8147.1 | 8109.9 | 7979.7 | 7855.7 | 7762.7 | 7564.3 | 7381.4 |
| 5° | 9331.3 | 9281.7 | 9207.3 | 9114.3 | 9018.2 | 8782.6 | 8649.3 | 8494.3 | 8153.3 | 7846.4 | 7542.6 |
| 7.5° | 9446.1 | 9436.8 | 9477.1 | 9477.1 | 9511.2 | 9421.2 | 9232.1 | 9123.6 | 8760.9 | 8261.8 | 7697.6 |
| 10° | 8640.0 | 8667.9 | 8863.2 | 9117.4 | 9470.9 | 9715.8 | 9684.8 | 9656.9 | 9260.0 | 8578.0 | 7880.5 |
| 12.5° | 7998.3 | 7936.3 | 8051.0 | 8268.0 | 8798.1 | 9390.2 | 9790.2 | 9793.3 | 9691.0 | 9083.3 | 8013.8 |
| 15° | 7635.6 | 7679.0 | 7710.0 | 7812.3 | 8212.2 | 8897.3 | 9601.1 | 9808.8 | 10258.3 | 9439.9 | 8224.6 |
| 17.5° | 7868.1 | 7722.4 | 7716.2 | 7741.0 | 7945.6 | 8460.2 | 9250.7 | 9607.3 | 10568.3 | 9898.7 | 8485.0 |
| 20° | 8171.9 | 8168.8 | 8082.0 | 8051.0 | 8047.9 | 8506.7 | 9021.3 | 9505.0 | 10732.6 | 10493.9 | 8748.5 |
| 22.5° | 8705.1 | 8705.1 | 8562.5 | 8494.3 | 8348.6 | 8723.7 | 9052.3 | 9380.9 | 11005.4 | 10903.1 | 8875.6 |
| 25° | 9598.0 | 9452.3 | 9207.3 | 9039.9 | 8956.2 | 9089.5 | 9380.9 | 9675.5 | 11244.1 | 11337.1 | 9139.1 |
| 27.5° | 10422.6 | 10193.2 | 10072.3 | 9784.0 | 9672.4 | 9594.9 | 9861.5 | 10159.1 | 11523.1 | 12012.9 | 9281.7 |
| 30° | 11358.8 | 11318.5 | 11101.5 | 10729.5 | 10453.6 | 10311.0 | 10555.9 | 10850.4 | 12034.6 | 12704.3 | 9610.4 |
| 32.5° | 13032.9 | 12667.1 | 12372.6 | 11916.8 | 11467.3 | 11163.5 | 11405.3 | 11600.6 | 12884.1 | 13426.6 | 9970.0 |
| 35° | 14840.3 | 14722.4 | 14214.0 | 13392.5 | 12704.3 | 12431.5 | 12574.1 | 12719.8 | 13873.0 | 14530.2 | 10574.5 |
| 37.5° | 16616.6 | 16455.4 | 16036.9 | 15345.6 | 14508.5 | 13953.6 | 14055.9 | 14226.4 | 14982.9 | 16018.3 | 11312.3 |
| 40° | 17893.9 | 17695.5 | 17484.6 | 17382.3 | 16551.5 | 15792.0 | 15733.1 | 15776.5 | 16483.3 | 17413.3 | 12130.8 |
| 42.5° | 17986.9 | 18231.8 | 18296.9 | 18709.2 | 18513.9 | 17890.8 | 17528.1 | 17537.4 | 17915.6 | 18792.9 | 12958.5 |
| 45° | 17791.6 | 17565.3 | 18045.8 | 19171.1 | 19815.9 | 20107.3 | 19496.6 | 19419.1 | 18802.2 | 19592.7 | 13370.8 |
| 47.5° | 15742.4 | 15804.4 | 16616.6 | 18396.1 | 20259.3 | 21561.3 | 21418.7 | 21161.4 | 19276.5 | 19564.8 | 13305.7 |
| 50° | 12443.9 | 12819.0 | 13572.3 | 15788.9 | 19019.2 | 21790.7 | 22630.8 | 22035.6 | 18994.4 | 18796.0 | 12642.3 |
| 52.5° | 8286.6 | 8441.6 | 8937.6 | 11799.0 | 15292.9 | 19478.0 | 21235.8 | 21372.2 | 18734.0 | 17788.5 | 11802.1 |
| 55° | 3689.1 | 3676.7 | 4374.3 | 6163.0 | 9594.9 | 14821.7 | 17351.3 | 18182.2 | 17732.7 | 16762.3 | 10983.7 |
| 57.5° | 1562.5 | 1615.2 | 1900.4 | 2663.0 | 4718.4 | 8943.8 | 11755.6 | 12484.2 | 13637.4 | 13764.5 | 8426.1 |
| 60° | 1057.1 | 1063.3 | 1140.8 | 1333.0 | 1974.8 | 4200.7 | 6166.1 | 7040.4 | 7865.0 | 7809.2 | 4470.4 |
| 62.5° | 830.8 | 852.5 | 911.4 | 988.9 | 1171.8 | 1906.6 | 2759.1 | 3245.8 | 3298.5 | 2774.6 | 1695.8 |
| 65° | 709.9 | 713.0 | 771.9 | 837.0 | 917.6 | 1109.8 | 1329.9 | 1354.8 | 1370.3 | 1320.6 | 1246.2 |
| 67.5° | 585.9 | 592.1 | 638.6 | 713.0 | 787.4 | 849.4 | 911.4 | 942.4 | 1013.7 | 1153.2 | 1134.6 |
| 70° | 465.0 | 474.3 | 514.6 | 576.6 | 644.8 | 682.0 | 759.5 | 787.4 | 852.5 | 961.0 | 1004.4 |
| 72.5° | 353.4 | 356.5 | 390.6 | 434.0 | 496.0 | 533.2 | 598.3 | 629.3 | 672.7 | 765.7 | 806.0 |
| 75° | 254.2 | 263.5 | 288.3 | 310.0 | 319.3 | 344.1 | 406.1 | 440.2 | 502.2 | 542.5 | 545.6 |
| 77.5° | 133.3 | 139.5 | 145.7 | 145.7 | 176.7 | 223.2 | 263.5 | 282.1 | 325.5 | 356.5 | 341.0 |
| 80° | 52.7 | 55.8 | 71.3 | 96.1 | 124.0 | 161.2 | 189.1 | 198.4 | 235.6 | 254.2 | 263.5 |
| 82.5° | 31.0 | 34.1 | 46.5 | 68.2 | 89.9 | 114.7 | 136.4 | 145.7 | 170.5 | 192.2 | 198.4 |
| 85° | 15.5 | 18.6 | 27.9 | 43.4 | 58.9 | 71.3 | 68.2 | 65.1 | 65.1 | 62.0 | 65.1 |
| 87.5° | 6.2 | 6.2 | 9.3 | 9.3 | 9.3 | 12.4 | 15.5 | 15.5 | 15.5 | 18.6 | 18.6 |
| 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° | 7251.2 | 7251.2 | 7251.2 | 7251.2 | 7251.2 | 7251.2 | 7251.2 | 7251.2 | 7251.2 | 7251.2 | 7251.2 |
| 2.5° | 7260.5 | 7136.5 | 7021.8 | 6811.0 | 6581.5 | 6516.4 | 6249.8 | 6153.7 | 6085.5 | 6004.9 | 5980.1 |
| 5° | 7297.7 | 7133.4 | 6764.5 | 6339.7 | 6001.8 | 5567.8 | 5282.6 | 4975.7 | 4752.5 | 4696.7 | 4681.2 |
| 7.5° | 7375.2 | 7093.1 | 6457.5 | 5815.8 | 5124.5 | 4535.5 | 4086.0 | 3844.1 | 3630.2 | 3617.8 | 3596.1 |
| 10° | 7462.0 | 6972.2 | 6122.7 | 5115.2 | 4231.7 | 3686.0 | 3416.3 | 3310.9 | 3258.2 | 3245.8 | 3239.6 |
| 12.5° | 7533.3 | 6947.4 | 5747.6 | 4433.2 | 3599.2 | 3270.6 | 3190.0 | 3180.7 | 3202.4 | 3208.6 | 3221.0 |
| 15° | 7564.3 | 6848.2 | 5295.0 | 3822.4 | 3205.5 | 3084.6 | 3118.7 | 3155.9 | 3171.4 | 3211.7 | 3180.7 |
| 17.5° | 7623.2 | 6721.0 | 4737.0 | 3338.8 | 2985.4 | 3007.1 | 3066.0 | 3109.4 | 3134.2 | 3162.1 | 3121.8 |
| 20° | 7654.2 | 6606.3 | 4213.1 | 3050.5 | 2907.9 | 2948.2 | 3028.8 | 3062.9 | 3093.9 | 3106.3 | 3059.8 |
| 22.5° | 7626.3 | 6370.7 | 3751.1 | 2818.0 | 2833.5 | 2886.2 | 2957.5 | 2994.7 | 2976.1 | 2926.5 | 2898.6 |
| 25° | 7551.9 | 6039.0 | 3270.6 | 2669.2 | 2728.1 | 2821.1 | 2876.9 | 2849.0 | 2814.9 | 2787.0 | 2777.7 |
| 27.5° | 7548.8 | 5632.9 | 2923.4 | 2532.8 | 2638.2 | 2765.3 | 2746.7 | 2721.9 | 2737.4 | 2715.7 | 2690.9 |
| 30° | 7564.3 | 5239.2 | 2638.2 | 2455.3 | 2573.1 | 2635.1 | 2656.8 | 2632.0 | 2650.6 | 2610.3 | 2622.7 |
| 32.5° | 7483.7 | 4854.8 | 2452.2 | 2365.4 | 2495.6 | 2492.5 | 2563.8 | 2582.4 | 2539.0 | 2455.3 | 2467.7 |
| 35° | 7517.8 | 4544.8 | 2294.1 | 2325.1 | 2408.8 | 2408.8 | 2464.6 | 2442.9 | 2328.2 | 2278.6 | 2291.0 |
| 37.5° | 7753.4 | 4241.0 | 2216.6 | 2269.3 | 2325.1 | 2349.9 | 2331.3 | 2238.3 | 2210.4 | 2210.4 | 2216.6 |
| 40° | 7976.6 | 3980.5 | 2170.1 | 2256.9 | 2247.6 | 2263.1 | 2126.7 | 2136.0 | 2136.0 | 2139.1 | 2123.6 |
| 42.5° | 8175.0 | 3803.8 | 2132.9 | 2182.5 | 2198.0 | 2117.4 | 2033.7 | 2024.4 | 2046.1 | 2043.0 | 2030.6 |
| 45° | 8246.3 | 3658.1 | 2080.2 | 2098.8 | 2111.2 | 1977.9 | 1937.6 | 1919.0 | 1943.8 | 1953.1 | 1965.5 |
| 47.5° | 7973.5 | 3537.2 | 2021.3 | 1984.1 | 1959.3 | 1872.5 | 1819.8 | 1785.7 | 1816.7 | 1869.4 | 1881.8 |
| 50° | 7623.2 | 3379.1 | 1928.3 | 1857.0 | 1804.3 | 1767.1 | 1729.9 | 1695.8 | 1717.5 | 1754.7 | 1745.4 |
| 52.5° | 7105.5 | 3131.1 | 1810.5 | 1736.1 | 1646.2 | 1655.5 | 1621.4 | 1602.8 | 1615.2 | 1615.2 | 1605.9 |
| 55° | 6367.6 | 2573.1 | 1612.1 | 1559.4 | 1485.0 | 1509.8 | 1516.0 | 1491.2 | 1466.4 | 1488.1 | 1469.5 |
| 57.5° | 4346.4 | 1816.7 | 1438.5 | 1438.5 | 1364.1 | 1398.2 | 1395.1 | 1336.1 | 1277.2 | 1283.4 | 1271.0 |
| 60° | 2514.2 | 1447.8 | 1326.8 | 1314.4 | 1236.9 | 1264.8 | 1271.0 | 1230.7 | 1140.8 | 1147.0 | 1134.6 |
| 62.5° | 1429.2 | 1236.9 | 1159.4 | 1140.8 | 1125.3 | 1150.1 | 1150.1 | 1097.4 | 1019.9 | 1026.1 | 1013.7 |
| 65° | 1215.2 | 1147.0 | 1035.4 | 1032.3 | 1026.1 | 1032.3 | 1007.5 | 951.7 | 883.5 | 855.6 | 858.7 |
| 67.5° | 1103.6 | 1060.2 | 951.7 | 923.8 | 905.2 | 902.1 | 855.6 | 802.9 | 771.9 | 747.1 | 744.0 |
| 70° | 967.2 | 933.1 | 852.5 | 815.3 | 796.7 | 753.3 | 706.8 | 672.7 | 629.3 | 616.9 | 629.3 |
| 72.5° | 765.7 | 762.6 | 731.6 | 691.3 | 651.0 | 616.9 | 576.6 | 530.1 | 489.8 | 480.5 | 458.8 |
| 75° | 530.1 | 536.3 | 542.5 | 536.3 | 502.2 | 458.8 | 412.3 | 375.1 | 325.5 | 297.6 | 291.4 |
| 77.5° | 347.2 | 356.5 | 365.8 | 353.4 | 331.7 | 291.4 | 260.4 | 213.9 | 176.7 | 155.0 | 151.9 |
| 80° | 254.2 | 266.6 | 272.8 | 263.5 | 238.7 | 207.7 | 173.6 | 136.4 | 108.5 | 89.9 | 89.9 |
| 82.5° | 195.3 | 207.7 | 213.9 | 198.4 | 173.6 | 148.8 | 124.0 | 96.1 | 74.4 | 58.9 | 55.8 |
| 85° | 68.2 | 65.1 | 77.5 | 80.6 | 96.1 | 89.9 | 74.4 | 55.8 | 43.4 | 31.0 | 27.9 |
| 87.5° | 18.6 | 18.6 | 21.7 | 21.7 | 18.6 | 15.5 | 15.5 | 15.5 | 12.4 | 9.3 | 9.3 |
| 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)