

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: P383573

Luminaire Tested: **GAN-SA8C-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53991.6 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

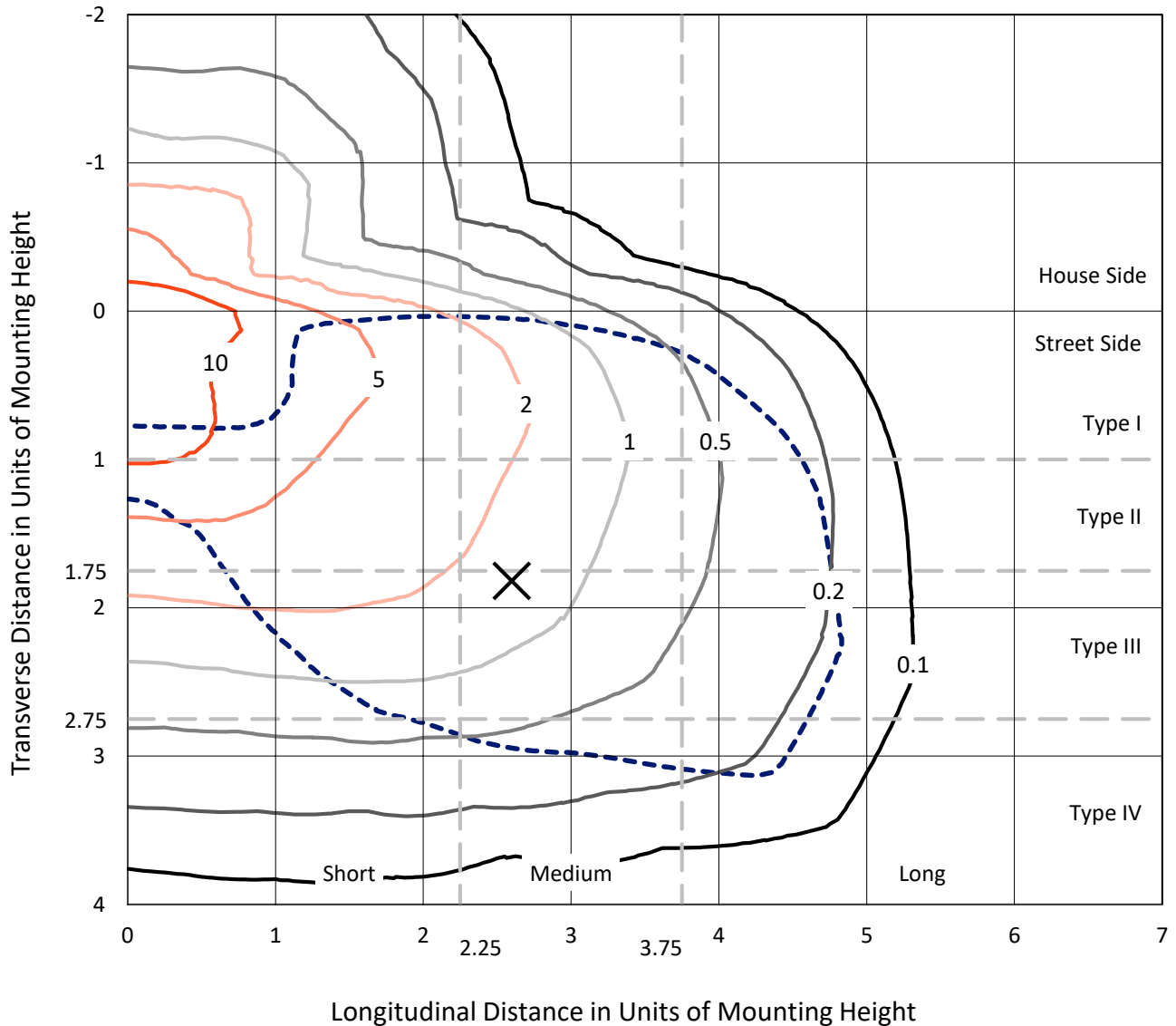
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

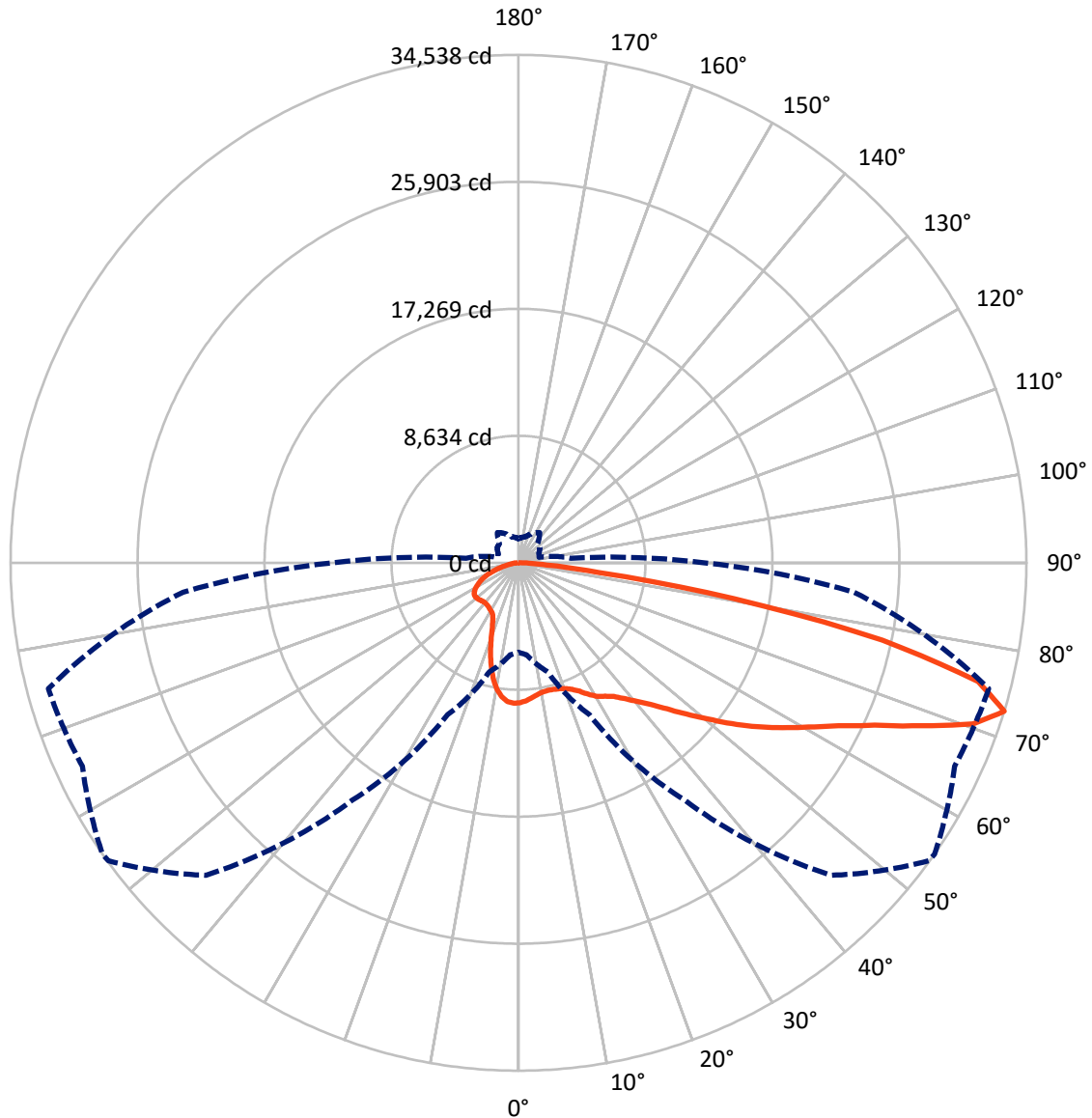
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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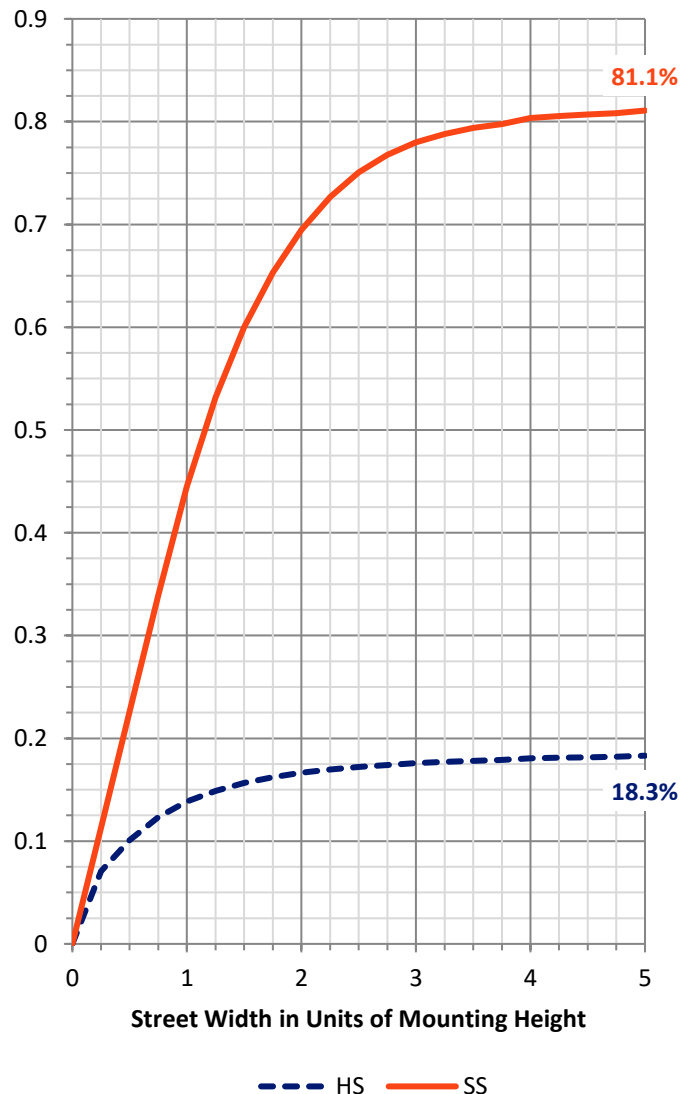
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10035.3 | 0.0 | 10035.3 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 43956.3 | 0.0 | 43956.3 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 53991.6 | 0.0 | 53991.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 861.7 | 1.6 |
| 10°-20° | 2294.2 | 4.2 |
| 20°-30° | 3782.6 | 7.0 |
| 30°-40° | 5595.4 | 10.4 |
| 40°-50° | 7810.0 | 14.5 |
| 50°-60° | 10168.8 | 18.8 |
| 60°-70° | 12497.2 | 23.1 |
| 70°-80° | 9796.3 | 18.1 |
| 80°-90° | 1185.5 | 2.2 |
| 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° | 53991.6 | 100.0 |
| 0°-180° | 53991.6 | 100.0 |

Coefficient of Utilization

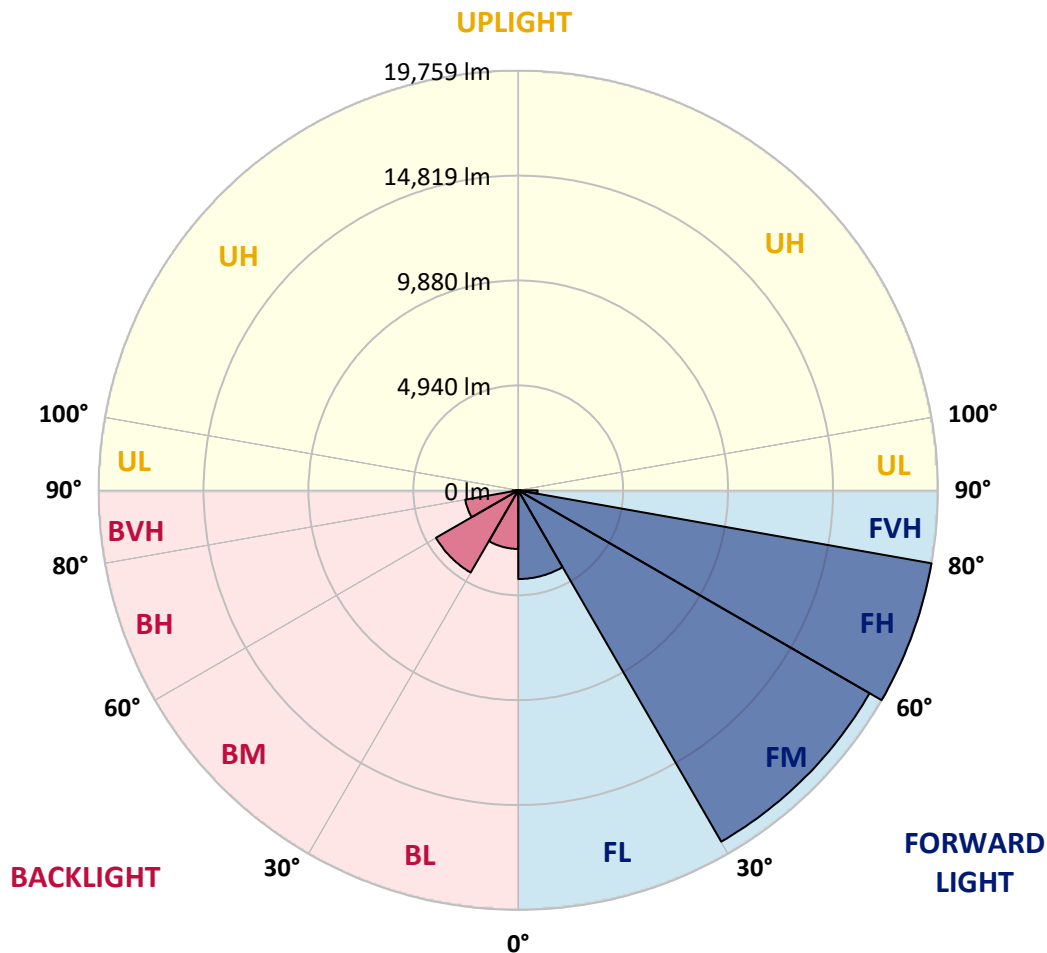


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4177.4 | 7.7 | | | |
| FM (30°-60°) | 19103.3 | 35.4 | | | |
| FH (60°-80°) | 19759.1 | 36.6 | | | G5 |
| FVH (80°-90°) | 916.6 | 1.7 | | | G5 |
| BL (0°-30°) | 2761.1 | 5.1 | B4/5000 | | |
| BM (30°-60°) | 4470.9 | 8.3 | B3/5000 | | |
| BH (60°-80°) | 2534.4 | 4.7 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 268.9 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9522.9 | 9522.9 | 9522.9 | 9522.9 | 9522.9 | 9522.9 | 9522.9 | 9522.9 | 9522.9 | 9522.9 | 9522.9 |
| 2.5° | 9212.9 | 9191.0 | 9218.4 | 9256.7 | 9298.6 | 9355.2 | 9388.0 | 9402.6 | 9459.1 | 9481.0 | 9528.4 |
| 5° | 8786.2 | 8775.3 | 8820.8 | 8886.5 | 8979.5 | 9110.8 | 9216.5 | 9236.7 | 9386.2 | 9491.9 | 9588.6 |
| 7.5° | 8476.2 | 8476.2 | 8529.1 | 8607.5 | 8711.5 | 8888.4 | 9037.9 | 9065.3 | 9318.7 | 9546.7 | 9725.4 |
| 10° | 8230.0 | 8239.2 | 8301.1 | 8394.2 | 8516.3 | 8704.1 | 8902.9 | 8933.9 | 9300.5 | 9674.3 | 9958.8 |
| 12.5° | 8065.9 | 8087.8 | 8144.3 | 8228.2 | 8379.6 | 8607.5 | 8859.1 | 8901.1 | 9338.8 | 9856.7 | 10239.7 |
| 15° | 8169.9 | 8206.3 | 8211.8 | 8246.4 | 8330.3 | 8578.3 | 8884.7 | 8928.4 | 9420.8 | 10042.6 | 10558.8 |
| 17.5° | 8625.8 | 8638.5 | 8582.0 | 8509.0 | 8468.9 | 8627.5 | 8961.3 | 9006.9 | 9519.3 | 10226.9 | 10865.1 |
| 20° | 9318.7 | 9311.4 | 9189.3 | 8992.3 | 8788.0 | 8813.6 | 9087.1 | 9134.5 | 9652.4 | 10389.2 | 11171.5 |
| 22.5° | 10194.0 | 10168.5 | 9980.7 | 9617.8 | 9269.5 | 9123.6 | 9307.7 | 9347.9 | 9853.1 | 10620.8 | 11499.8 |
| 25° | 11255.4 | 11198.9 | 10950.8 | 10464.0 | 9951.5 | 9575.8 | 9639.7 | 9677.9 | 10144.8 | 10879.7 | 11800.7 |
| 27.5° | 12375.1 | 12318.6 | 12003.1 | 11414.1 | 10732.0 | 10146.6 | 10097.4 | 10130.2 | 10476.7 | 11071.2 | 12023.1 |
| 30° | 13545.8 | 13485.6 | 13197.5 | 12537.4 | 11559.9 | 10737.5 | 10524.2 | 10536.9 | 10710.1 | 11175.1 | 12205.5 |
| 32.5° | 14722.1 | 14665.5 | 14342.8 | 13576.8 | 12459.0 | 11372.1 | 10832.3 | 10815.9 | 10850.6 | 11282.7 | 12411.6 |
| 35° | 15914.7 | 15936.6 | 15559.2 | 14711.2 | 13454.7 | 12077.9 | 11197.0 | 11162.4 | 11085.8 | 11503.4 | 12703.3 |
| 37.5° | 17191.2 | 17176.7 | 16687.9 | 15801.7 | 14496.0 | 12843.8 | 11720.5 | 11715.0 | 11450.5 | 11921.0 | 13161.1 |
| 40° | 18044.7 | 18053.9 | 17756.6 | 16917.7 | 15548.2 | 13691.8 | 12391.5 | 12378.8 | 12032.2 | 12546.5 | 13761.0 |
| 42.5° | 18378.5 | 18438.7 | 18515.3 | 17982.7 | 16649.6 | 14674.7 | 13192.1 | 13173.9 | 12843.8 | 13443.7 | 14466.7 |
| 45° | 18402.2 | 18522.5 | 18996.7 | 18929.2 | 17765.7 | 15799.9 | 14215.1 | 14164.1 | 13927.0 | 14636.4 | 15309.3 |
| 47.5° | 18197.9 | 18322.0 | 19109.8 | 19492.7 | 18763.2 | 16987.0 | 15411.4 | 15371.3 | 15167.1 | 16128.1 | 16221.1 |
| 50° | 17751.1 | 17869.7 | 18876.3 | 19768.1 | 19583.8 | 18128.7 | 16790.1 | 16684.3 | 16574.9 | 17851.4 | 17264.2 |
| 52.5° | 16914.1 | 17142.1 | 18564.4 | 19833.7 | 20074.4 | 19142.6 | 18239.9 | 18170.6 | 18230.8 | 19669.5 | 18309.2 |
| 55° | 14931.8 | 15187.1 | 17760.2 | 19779.0 | 20437.3 | 19994.2 | 19689.7 | 19686.0 | 19997.8 | 21577.1 | 19430.7 |
| 57.5° | 13821.2 | 14001.7 | 16122.7 | 19686.0 | 20867.7 | 20840.3 | 21124.8 | 21159.5 | 21766.7 | 23654.2 | 20605.1 |
| 60° | 13193.9 | 13383.5 | 15292.8 | 19341.4 | 21535.1 | 21934.5 | 22589.2 | 22658.5 | 23564.8 | 25953.8 | 22018.4 |
| 62.5° | 12623.1 | 12831.0 | 14778.6 | 18639.2 | 22321.1 | 23499.2 | 24343.5 | 24405.5 | 25468.7 | 28317.2 | 23384.3 |
| 65° | 11647.5 | 11882.7 | 14025.5 | 18177.8 | 23036.0 | 25539.8 | 26573.8 | 26615.7 | 27655.2 | 30793.7 | 24429.3 |
| 67.5° | 10268.8 | 10484.0 | 12604.9 | 17158.5 | 23564.8 | 28018.2 | 29539.0 | 29562.8 | 29823.5 | 32542.5 | 24963.5 |
| 70° | 8658.5 | 8740.6 | 10580.6 | 15054.0 | 22939.4 | 30335.9 | 32788.7 | 32794.2 | 31800.3 | 33662.2 | 24876.0 |
| 72.5° | 6083.6 | 6276.9 | 7681.1 | 11395.8 | 19713.3 | 30053.3 | 34475.6 | 34537.6 | 32719.4 | 33096.9 | 22888.3 |
| 75° | 3731.1 | 3935.4 | 4818.0 | 6906.0 | 12506.4 | 23636.0 | 31853.2 | 32283.5 | 30996.1 | 29509.8 | 18697.6 |
| 77.5° | 2494.7 | 2571.4 | 3143.9 | 4026.5 | 5666.0 | 13598.7 | 24489.5 | 25299.1 | 25749.6 | 21520.5 | 11957.5 |
| 80° | 1391.5 | 1537.3 | 2084.4 | 2502.0 | 2520.2 | 5403.3 | 14683.8 | 14873.5 | 14326.4 | 8569.2 | 3689.2 |
| 82.5° | 736.8 | 817.0 | 1391.5 | 1469.8 | 1375.0 | 1809.1 | 5472.7 | 5478.2 | 4577.3 | 2297.8 | 1096.0 |
| 85° | 570.8 | 638.3 | 953.7 | 897.3 | 702.1 | 802.4 | 1805.3 | 1903.9 | 1557.4 | 941.0 | 357.4 |
| 87.5° | 284.5 | 353.8 | 647.4 | 569.0 | 275.4 | 229.8 | 645.6 | 689.3 | 614.5 | 368.3 | 129.5 |
| 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° | 9522.9 | 9522.9 | 9522.9 | 9522.9 | 9522.9 | 9522.9 | 9522.9 | 9522.9 | 9522.9 | 9522.9 | 9522.9 |
| 2.5° | 9546.7 | 9563.1 | 9583.1 | 9561.2 | 9554.0 | 9524.8 | 9475.5 | 9464.6 | 9439.1 | 9440.9 | 9455.5 |
| 5° | 9630.5 | 9657.9 | 9646.9 | 9563.1 | 9462.8 | 9322.4 | 9176.5 | 9052.5 | 8970.4 | 8964.9 | 8959.4 |
| 7.5° | 9791.0 | 9809.3 | 9723.6 | 9484.6 | 9203.8 | 8879.2 | 8572.8 | 8304.7 | 8142.5 | 8102.3 | 8093.2 |
| 10° | 10042.6 | 10039.0 | 9803.8 | 9322.4 | 8762.5 | 8182.6 | 7690.2 | 7318.2 | 7101.2 | 7037.4 | 7021.0 |
| 12.5° | 10323.5 | 10281.6 | 9831.2 | 9026.9 | 8138.8 | 7334.6 | 6711.0 | 6297.0 | 6070.8 | 5997.9 | 5979.7 |
| 15° | 10613.5 | 10509.5 | 9763.6 | 8585.6 | 7372.9 | 6421.0 | 5766.3 | 5383.3 | 5261.1 | 5221.0 | 5213.8 |
| 17.5° | 10883.4 | 10682.8 | 9570.3 | 7987.5 | 6499.4 | 5510.9 | 5000.4 | 4847.2 | 4876.4 | 4929.3 | 4931.1 |
| 20° | 11147.8 | 10799.5 | 9260.3 | 7232.4 | 5578.5 | 4761.5 | 4588.2 | 4701.3 | 4839.9 | 4947.4 | 4962.1 |
| 22.5° | 11408.6 | 10881.6 | 8861.0 | 6360.8 | 4754.2 | 4340.2 | 4462.4 | 4668.5 | 4827.1 | 4943.8 | 4963.9 |
| 25° | 11627.4 | 10901.6 | 8310.2 | 5430.7 | 4181.5 | 4181.5 | 4402.2 | 4597.4 | 4754.2 | 4869.1 | 4889.1 |
| 27.5° | 11707.7 | 10766.6 | 7533.4 | 4570.0 | 3893.4 | 4108.6 | 4318.4 | 4480.7 | 4613.8 | 4736.0 | 4757.8 |
| 30° | 11738.6 | 10516.8 | 6636.2 | 3878.9 | 3774.9 | 4030.2 | 4205.3 | 4343.9 | 4469.7 | 4584.6 | 4604.6 |
| 32.5° | 11744.1 | 10215.9 | 5684.2 | 3486.8 | 3692.8 | 3948.2 | 4064.8 | 4187.0 | 4322.0 | 4367.6 | 4374.8 |
| 35° | 11778.8 | 9860.3 | 4681.2 | 3286.1 | 3616.3 | 3871.5 | 3964.6 | 4052.0 | 3833.2 | 3849.6 | 3864.2 |
| 37.5° | 11879.1 | 9508.4 | 3842.4 | 3173.1 | 3567.0 | 3831.5 | 3942.7 | 3625.4 | 3453.9 | 3413.8 | 3408.3 |
| 40° | 12066.9 | 9132.7 | 3220.5 | 3081.9 | 3548.7 | 3851.5 | 3802.2 | 3384.7 | 3089.2 | 2868.5 | 2835.7 |
| 42.5° | 12327.6 | 8727.9 | 2823.0 | 3021.8 | 3561.5 | 3948.2 | 3607.1 | 3153.0 | 2662.5 | 2520.2 | 2502.0 |
| 45° | 12621.3 | 8303.0 | 2607.8 | 2979.8 | 3605.3 | 4022.9 | 3567.0 | 2844.9 | 2463.8 | 2356.2 | 2347.0 |
| 47.5° | 12905.8 | 7783.2 | 2496.5 | 2961.6 | 3665.5 | 3962.7 | 3397.4 | 2750.0 | 2368.9 | 2312.4 | 2317.8 |
| 50° | 13232.2 | 7314.5 | 2429.1 | 2941.5 | 3718.4 | 3924.4 | 3205.9 | 2700.7 | 2332.4 | 2401.7 | 2474.7 |
| 52.5° | 13507.5 | 6829.5 | 2368.9 | 2901.4 | 3738.4 | 3857.0 | 3156.6 | 2709.9 | 2332.4 | 2465.5 | 2534.8 |
| 55° | 13833.9 | 6462.9 | 2299.6 | 2817.5 | 3700.1 | 3665.5 | 3122.1 | 2764.6 | 2359.8 | 2275.9 | 2283.1 |
| 57.5° | 14255.3 | 6342.5 | 2223.0 | 2686.2 | 3572.5 | 3386.5 | 3105.6 | 2817.5 | 2343.3 | 2290.5 | 2308.7 |
| 60° | 14838.8 | 6470.3 | 2192.0 | 2514.8 | 3373.7 | 3167.6 | 3107.5 | 2790.2 | 2228.4 | 2137.2 | 2139.1 |
| 62.5° | 15395.0 | 6612.5 | 2190.2 | 2407.2 | 3129.3 | 2972.5 | 3065.5 | 2700.7 | 2170.1 | 2117.2 | 2137.2 |
| 65° | 15577.3 | 6468.4 | 2102.6 | 2286.9 | 2854.0 | 2739.1 | 2988.9 | 2605.9 | 2126.4 | 2046.1 | 2042.4 |
| 67.5° | 15333.0 | 6021.6 | 1925.8 | 2091.7 | 2538.5 | 2467.4 | 2888.6 | 2492.9 | 2057.0 | 1991.4 | 1980.5 |
| 70° | 14607.2 | 5024.1 | 1706.9 | 1834.6 | 2179.3 | 2161.0 | 2730.0 | 2361.6 | 1964.1 | 1907.5 | 1860.1 |
| 72.5° | 12654.1 | 3579.8 | 1438.9 | 1526.3 | 1774.4 | 1832.7 | 2511.2 | 2190.2 | 1832.7 | 1710.6 | 1637.6 |
| 75° | 10392.8 | 2649.7 | 1181.7 | 1199.9 | 1347.7 | 1506.3 | 2210.2 | 1989.6 | 1677.7 | 1469.8 | 1413.3 |
| 77.5° | 6364.4 | 1621.2 | 941.0 | 948.3 | 966.5 | 1201.8 | 1820.0 | 1765.3 | 1480.8 | 1225.5 | 1185.4 |
| 80° | 2060.7 | 884.4 | 680.2 | 714.9 | 660.2 | 880.8 | 1407.8 | 1502.7 | 1271.1 | 1024.9 | 981.1 |
| 82.5° | 784.2 | 516.1 | 459.5 | 483.3 | 457.8 | 590.9 | 1026.7 | 1203.6 | 1041.3 | 842.5 | 685.7 |
| 85° | 379.3 | 291.8 | 271.7 | 304.5 | 282.6 | 302.8 | 656.5 | 886.3 | 789.7 | 548.9 | 510.6 |
| 87.5° | 135.0 | 129.5 | 104.0 | 140.4 | 120.4 | 107.6 | 200.6 | 446.8 | 521.6 | 377.5 | 337.4 |
| 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)