

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: P459444

Luminaire Tested: **GLAN-SA9A-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31642 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

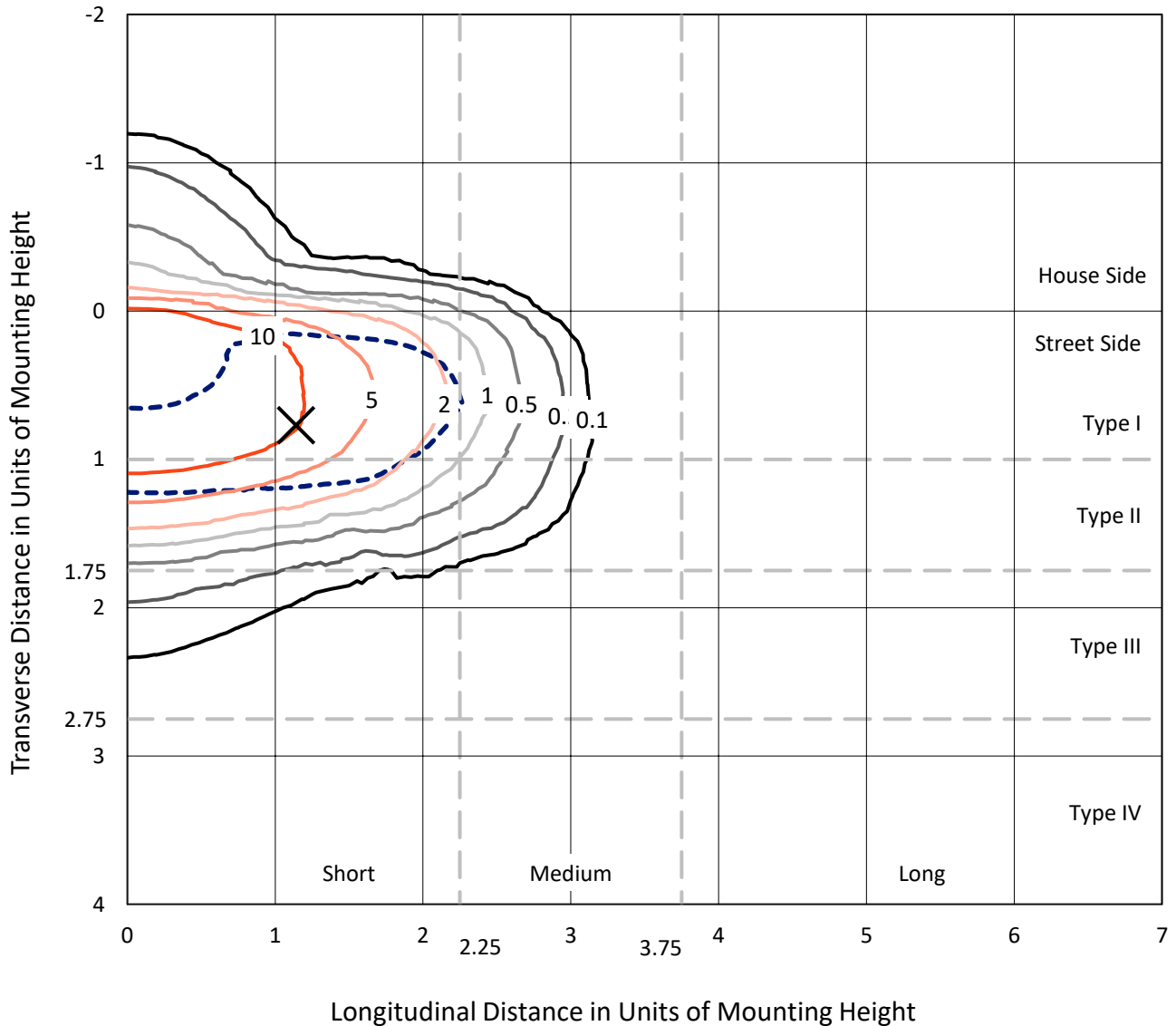
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

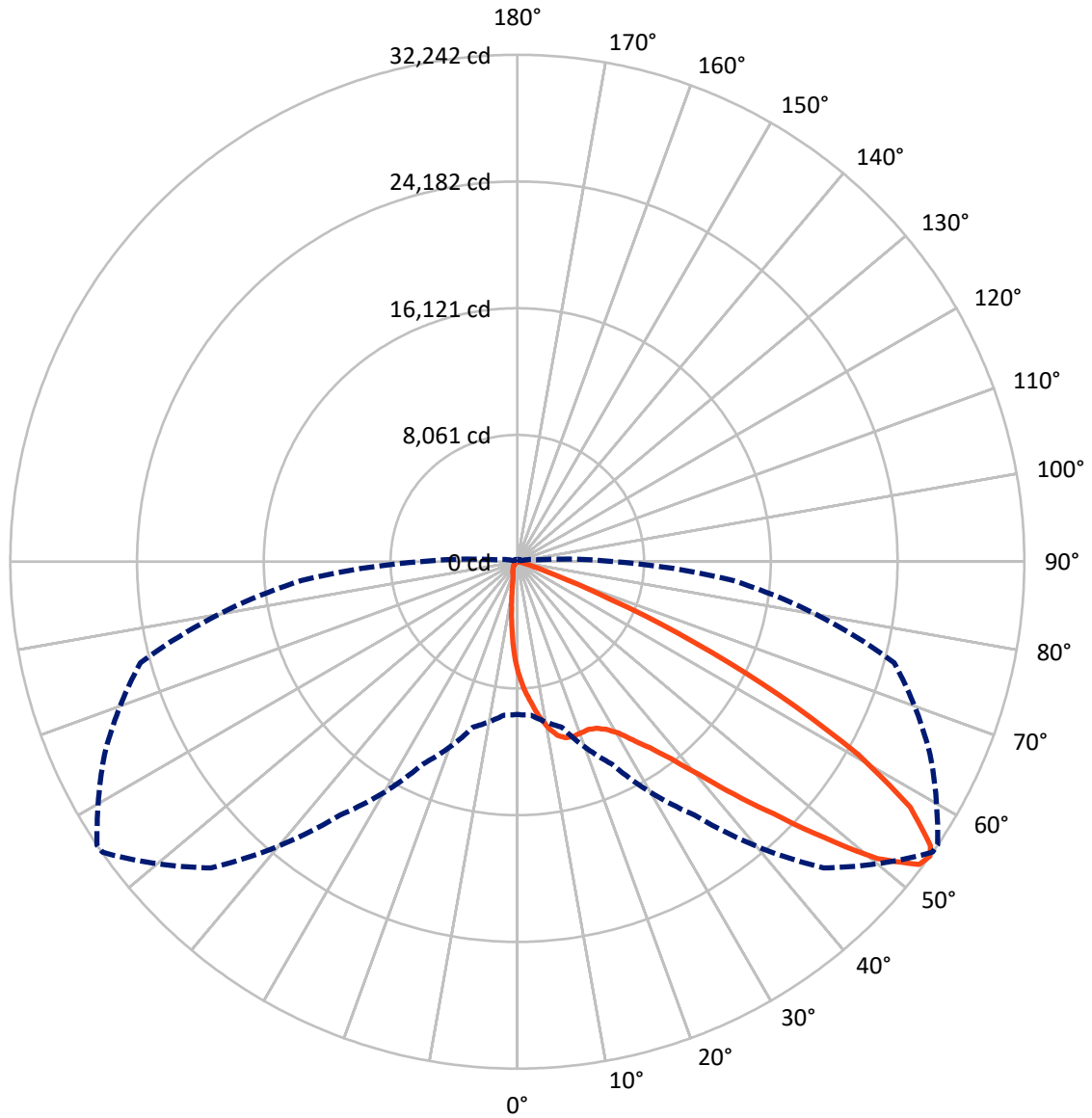
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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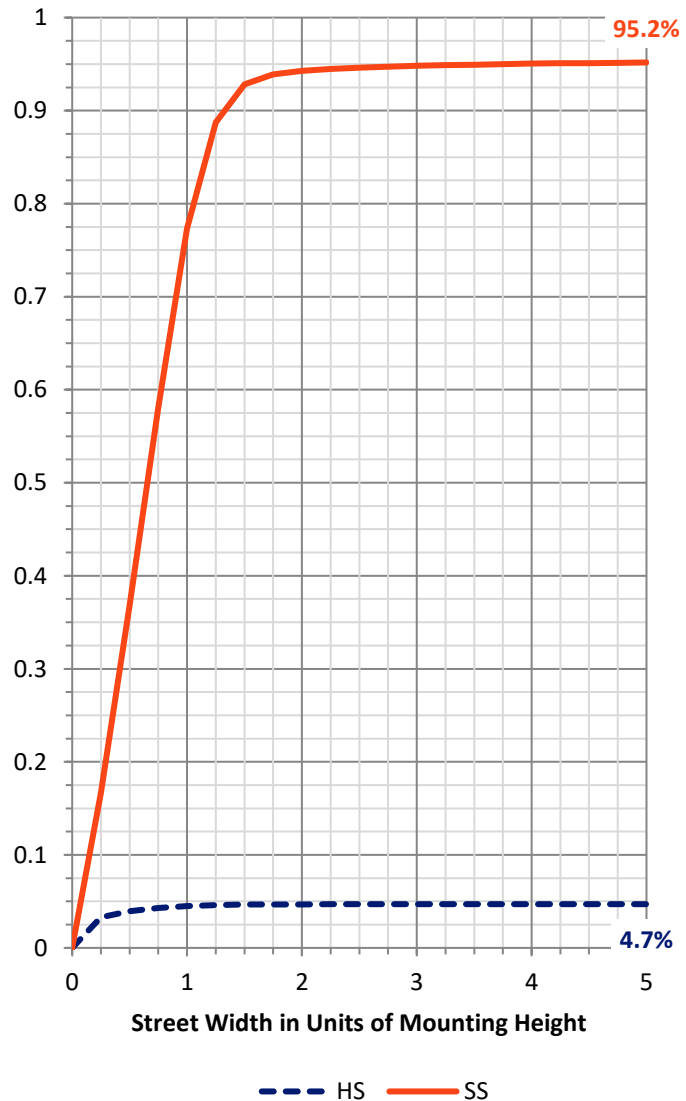
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1496.3 | 0.0 | 1496.3 |
| | % Fixture | 4.7 | 0.0 | 4.7 |
| Street Side | Lumens | 30145.7 | 0.0 | 30145.7 |
| | % Fixture | 95.3 | 0.0 | 95.3 |
| Total | Lumens | 31642.0 | 0.0 | 31642.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 621.2 | 2.0 |
| 10°-20° | 1679.3 | 5.3 |
| 20°-30° | 2908.5 | 9.2 |
| 30°-40° | 5020.5 | 15.9 |
| 40°-50° | 8545.0 | 27.0 |
| 50°-60° | 8456.3 | 26.7 |
| 60°-70° | 3859.7 | 12.2 |
| 70°-80° | 495.7 | 1.6 |
| 80°-90° | 55.9 | 0.2 |
| 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° | 31642.0 | 100.0 |
| 0°-180° | 31642.0 | 100.0 |

Coefficient of Utilization



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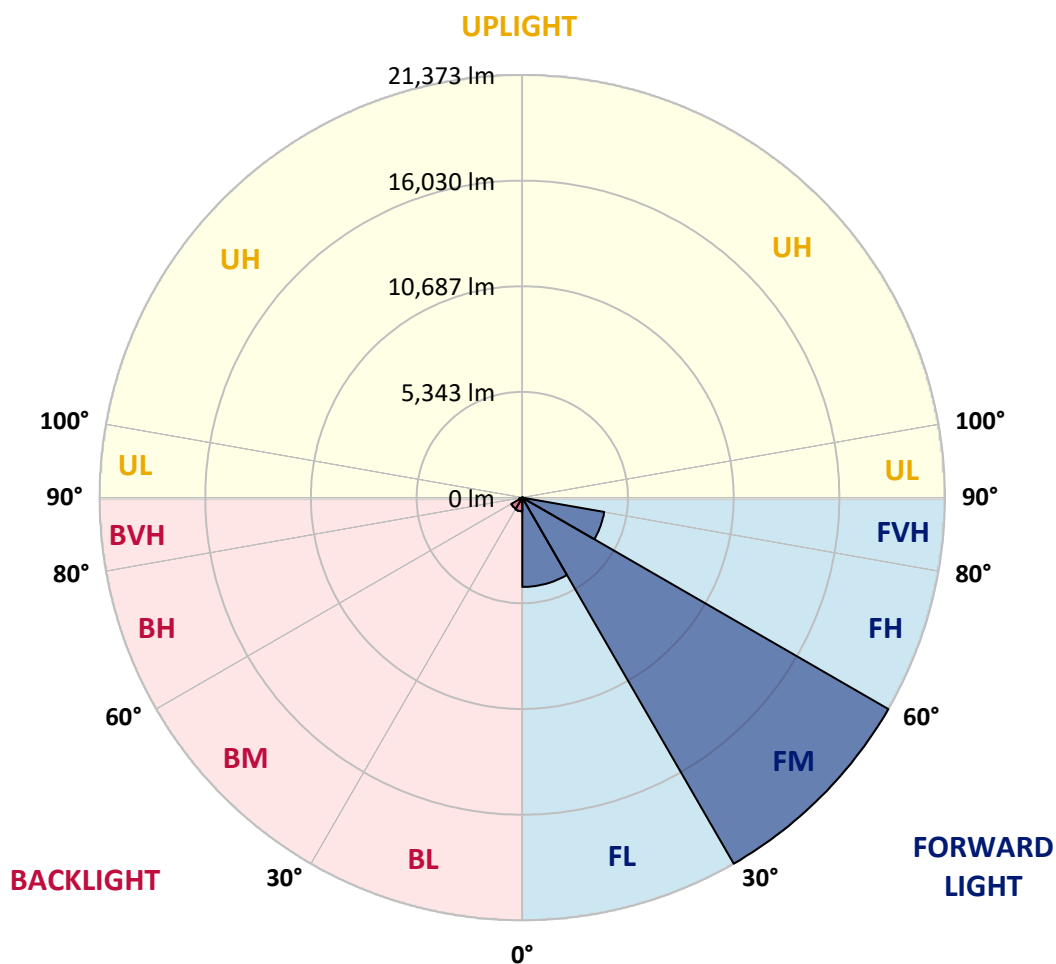
CATALOG NUMBER: GLAN-SA9A-735-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4517.0 | 14.3 | | | |
| FM | (30°-60°) | 21373.4 | 67.5 | | | |
| FH | (60°-80°) | 4205.5 | 13.3 | | | G2/5000 |
| FVH | (80°-90°) | 49.9 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 692.0 | 2.2 | B2/1000 | | |
| BM | (30°-60°) | 648.5 | 2.0 | B1/1000 | | |
| BH | (60°-80°) | 149.8 | 0.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 6.0 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7029.9 | 7029.9 | 7029.9 | 7029.9 | 7029.9 | 7029.9 | 7029.9 | 7029.9 | 7029.9 | 7029.9 | 7029.9 |
| 2.5° | 8934.2 | 8872.3 | 8786.9 | 8720.7 | 8564.9 | 8340.7 | 8103.8 | 8103.8 | 7875.3 | 7557.2 | 7232.8 |
| 5° | 10304.7 | 10264.2 | 10180.9 | 10010.1 | 9835.1 | 9521.3 | 9045.2 | 8961.9 | 8554.2 | 7977.8 | 7371.5 |
| 7.5° | 10861.9 | 10881.1 | 10885.4 | 10840.6 | 10757.3 | 10447.8 | 9976.0 | 9918.3 | 9267.2 | 8494.4 | 7553.0 |
| 10° | 10328.2 | 10422.2 | 10514.0 | 10699.7 | 10962.3 | 11037.0 | 10770.1 | 10710.4 | 10069.9 | 9017.5 | 7749.4 |
| 12.5° | 9534.1 | 9585.3 | 9636.6 | 9929.0 | 10456.3 | 11060.5 | 11340.1 | 11338.0 | 10795.8 | 9538.3 | 7999.1 |
| 15° | 9164.8 | 9209.6 | 9213.9 | 9344.1 | 9800.9 | 10680.5 | 11583.5 | 11615.5 | 11504.5 | 10180.9 | 8268.1 |
| 17.5° | 9241.6 | 9277.9 | 9248.0 | 9280.0 | 9519.1 | 10262.1 | 11555.7 | 11662.5 | 12078.8 | 10797.9 | 8511.5 |
| 20° | 9743.3 | 9813.7 | 9698.5 | 9608.8 | 9681.4 | 10151.0 | 11461.8 | 11611.3 | 12484.4 | 11399.9 | 8733.5 |
| 22.5° | 10644.2 | 10682.6 | 10537.4 | 10291.9 | 10163.8 | 10383.7 | 11436.2 | 11583.5 | 12830.2 | 11893.0 | 8861.6 |
| 25° | 11645.4 | 11632.6 | 11472.5 | 11197.1 | 10928.1 | 10853.4 | 11604.8 | 11737.2 | 13116.3 | 12337.1 | 8900.0 |
| 27.5° | 12646.6 | 12685.1 | 12416.1 | 12074.5 | 11752.2 | 11557.9 | 11982.7 | 12080.9 | 13438.7 | 12843.0 | 8947.0 |
| 30° | 13810.1 | 13748.2 | 13483.5 | 13092.8 | 12723.5 | 12452.4 | 12591.1 | 12618.9 | 13882.7 | 13513.4 | 9070.8 |
| 32.5° | 15323.7 | 15152.9 | 14856.2 | 14173.0 | 13908.3 | 13449.3 | 13483.5 | 13517.6 | 14422.8 | 14177.3 | 9220.3 |
| 35° | 17377.4 | 17368.8 | 16788.2 | 15868.1 | 15223.4 | 14653.4 | 14503.9 | 14531.7 | 15240.4 | 15163.6 | 9551.2 |
| 37.5° | 19849.5 | 19883.7 | 19221.9 | 18295.4 | 17108.4 | 16203.2 | 15895.8 | 15900.1 | 16482.9 | 16525.6 | 10055.0 |
| 40° | 21862.6 | 21952.3 | 21557.4 | 20931.9 | 19759.8 | 18344.5 | 17827.8 | 17780.9 | 18229.2 | 18175.8 | 10774.4 |
| 42.5° | 22729.4 | 22812.6 | 22959.9 | 23177.7 | 22533.0 | 21365.2 | 20146.2 | 20210.3 | 20346.9 | 19973.3 | 11581.4 |
| 45° | 22304.5 | 22436.9 | 23015.4 | 24360.4 | 24966.7 | 24573.8 | 23120.0 | 22895.9 | 22317.3 | 21926.7 | 12392.6 |
| 47.5° | 20534.8 | 20857.1 | 21824.2 | 24063.6 | 26185.6 | 27513.5 | 26476.0 | 26179.2 | 24289.9 | 23352.7 | 12909.2 |
| 50° | 17625.0 | 17644.2 | 18991.3 | 21854.1 | 25553.7 | 29368.6 | 29902.3 | 29680.3 | 26128.0 | 24153.3 | 13169.7 |
| 52.5° | 12776.9 | 13197.4 | 14431.3 | 17746.7 | 22816.9 | 29086.8 | 32086.3 | 31994.5 | 28023.7 | 24563.2 | 13545.4 |
| 54° | 9713.4 | 9794.5 | 10891.8 | 14181.6 | 19672.3 | 27539.1 | 32220.7 | 32242.1 | 28965.2 | 24810.8 | 13767.4 |
| 55° | 7962.9 | 7768.6 | 8921.4 | 12080.9 | 17526.8 | 26170.7 | 31781.0 | 31883.4 | 29387.9 | 24938.9 | 13931.8 |
| 57.5° | 3774.4 | 3776.5 | 4658.2 | 6372.4 | 10977.2 | 20321.3 | 29093.2 | 29456.2 | 29434.8 | 25158.8 | 14437.7 |
| 60° | 1910.7 | 1923.5 | 2117.7 | 2941.8 | 5422.4 | 13509.1 | 24055.1 | 24919.7 | 27169.8 | 25190.8 | 14604.3 |
| 62.5° | 1336.4 | 1321.4 | 1289.4 | 1415.4 | 2282.1 | 6865.6 | 17909.0 | 18660.4 | 23083.7 | 23971.8 | 14074.8 |
| 65° | 1144.3 | 1112.2 | 1022.6 | 1003.4 | 1152.8 | 2734.7 | 11154.4 | 12379.8 | 17625.0 | 20756.8 | 12567.7 |
| 67.5° | 977.7 | 964.9 | 883.8 | 834.7 | 815.5 | 1191.2 | 5755.5 | 6400.2 | 12046.8 | 14920.2 | 9519.1 |
| 70° | 830.4 | 824.0 | 774.9 | 713.0 | 659.7 | 713.0 | 2134.8 | 2645.0 | 6714.0 | 8033.3 | 4491.6 |
| 72.5° | 674.6 | 681.0 | 689.5 | 610.6 | 555.1 | 506.0 | 911.6 | 1061.0 | 2809.4 | 2871.3 | 1571.2 |
| 75° | 591.3 | 584.9 | 584.9 | 531.6 | 463.3 | 375.7 | 501.7 | 540.1 | 860.3 | 798.4 | 365.1 |
| 77.5° | 416.3 | 401.3 | 469.7 | 437.6 | 386.4 | 266.9 | 286.1 | 303.1 | 356.5 | 305.3 | 170.8 |
| 80° | 288.2 | 288.2 | 301.0 | 392.8 | 348.0 | 194.3 | 175.1 | 187.9 | 211.3 | 181.5 | 98.2 |
| 82.5° | 162.2 | 166.5 | 196.4 | 209.2 | 202.8 | 130.2 | 115.3 | 117.4 | 140.9 | 123.8 | 61.9 |
| 85° | 19.2 | 32.0 | 113.1 | 111.0 | 83.3 | 57.6 | 64.0 | 66.2 | 87.5 | 76.9 | 36.3 |
| 87.5° | 2.1 | 4.3 | 23.5 | 29.9 | 21.3 | 23.5 | 23.5 | 23.5 | 29.9 | 34.2 | 25.6 |
| 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° | 7029.9 | 7029.9 | 7029.9 | 7029.9 | 7029.9 | 7029.9 | 7029.9 | 7029.9 | 7029.9 | 7029.9 | 7029.9 |
| 2.5° | 7057.7 | 6895.4 | 6509.0 | 6060.7 | 5774.7 | 5309.3 | 4916.5 | 4632.5 | 4562.1 | 4425.5 | 4466.0 |
| 5° | 7049.2 | 6711.9 | 5924.1 | 5091.5 | 4203.4 | 3541.7 | 3048.5 | 2660.0 | 2489.2 | 2376.0 | 2297.1 |
| 7.5° | 7053.4 | 6526.1 | 5262.3 | 3936.6 | 2875.6 | 2226.6 | 1769.8 | 1532.8 | 1374.8 | 1308.6 | 1317.2 |
| 10° | 7066.2 | 6316.9 | 4493.8 | 2916.2 | 1940.5 | 1438.9 | 1159.2 | 1046.1 | 992.7 | 984.1 | 982.0 |
| 12.5° | 7096.1 | 6088.5 | 3759.4 | 2164.7 | 1357.7 | 1046.1 | 939.3 | 900.9 | 883.8 | 883.8 | 877.4 |
| 15° | 7128.1 | 5836.6 | 3148.9 | 1609.6 | 1046.1 | 898.8 | 849.7 | 830.4 | 819.8 | 819.8 | 817.6 |
| 17.5° | 7128.1 | 5546.2 | 2578.9 | 1248.9 | 900.9 | 826.2 | 787.7 | 762.1 | 753.6 | 753.6 | 751.5 |
| 20° | 7083.3 | 5208.9 | 2072.9 | 1005.5 | 817.6 | 757.9 | 719.4 | 691.7 | 681.0 | 676.7 | 674.6 |
| 22.5° | 6927.5 | 4758.5 | 1650.2 | 864.6 | 749.3 | 698.1 | 649.0 | 617.0 | 608.4 | 604.2 | 606.3 |
| 25° | 6649.9 | 4250.4 | 1306.5 | 760.0 | 687.4 | 625.5 | 582.8 | 559.3 | 550.8 | 550.8 | 552.9 |
| 27.5° | 6363.9 | 3718.8 | 1035.4 | 681.0 | 612.7 | 557.2 | 523.0 | 508.1 | 506.0 | 512.4 | 514.5 |
| 30° | 6099.2 | 3185.1 | 839.0 | 617.0 | 546.5 | 499.5 | 476.1 | 471.8 | 471.8 | 473.9 | 476.1 |
| 32.5° | 5804.6 | 2717.6 | 702.4 | 561.5 | 493.1 | 452.6 | 439.8 | 439.8 | 444.0 | 444.0 | 448.3 |
| 35° | 5618.8 | 2316.3 | 617.0 | 508.1 | 452.6 | 418.4 | 409.9 | 412.0 | 418.4 | 427.0 | 431.2 |
| 37.5° | 5518.5 | 1996.1 | 561.5 | 465.4 | 414.2 | 390.7 | 382.1 | 386.4 | 401.3 | 416.3 | 418.4 |
| 40° | 5527.0 | 1754.8 | 516.6 | 429.1 | 384.3 | 358.6 | 352.2 | 365.1 | 380.0 | 394.9 | 397.1 |
| 42.5° | 5621.0 | 1575.5 | 473.9 | 386.4 | 358.6 | 322.4 | 320.2 | 333.0 | 339.4 | 354.4 | 356.5 |
| 45° | 5732.0 | 1445.3 | 429.1 | 341.6 | 311.7 | 279.7 | 281.8 | 292.5 | 301.0 | 324.5 | 328.8 |
| 47.5° | 5766.1 | 1355.6 | 377.9 | 290.3 | 256.2 | 245.5 | 247.6 | 254.0 | 271.1 | 292.5 | 294.6 |
| 50° | 5804.6 | 1300.1 | 328.8 | 245.5 | 217.8 | 215.6 | 217.8 | 222.0 | 232.7 | 241.2 | 239.1 |
| 52.5° | 5968.9 | 1298.0 | 288.2 | 213.5 | 185.7 | 190.0 | 192.1 | 190.0 | 181.5 | 168.7 | 164.4 |
| 54° | 6122.6 | 1304.4 | 269.0 | 198.5 | 170.8 | 177.2 | 175.1 | 164.4 | 143.0 | 130.2 | 123.8 |
| 55° | 6246.5 | 1310.8 | 258.3 | 187.9 | 162.2 | 164.4 | 166.5 | 145.2 | 117.4 | 104.6 | 100.3 |
| 57.5° | 6489.8 | 1295.8 | 232.7 | 164.4 | 143.0 | 134.5 | 132.4 | 96.1 | 64.0 | 55.5 | 51.2 |
| 60° | 6368.2 | 1169.9 | 211.3 | 140.9 | 121.7 | 108.9 | 89.7 | 53.4 | 32.0 | 23.5 | 23.5 |
| 62.5° | 5890.0 | 992.7 | 187.9 | 115.3 | 100.3 | 83.3 | 47.0 | 29.9 | 14.9 | 8.5 | 6.4 |
| 65° | 5268.7 | 834.7 | 168.7 | 91.8 | 79.0 | 53.4 | 25.6 | 19.2 | 6.4 | 0.0 | 0.0 |
| 67.5° | 3917.4 | 619.1 | 143.0 | 72.6 | 59.8 | 34.2 | 17.1 | 10.7 | 2.1 | 0.0 | 0.0 |
| 70° | 1814.6 | 377.9 | 121.7 | 55.5 | 42.7 | 25.6 | 12.8 | 6.4 | 0.0 | 0.0 | 0.0 |
| 72.5° | 520.9 | 237.0 | 100.3 | 40.6 | 29.9 | 21.3 | 10.7 | 4.3 | 2.1 | 0.0 | 0.0 |
| 75° | 181.5 | 190.0 | 74.7 | 29.9 | 23.5 | 14.9 | 8.5 | 4.3 | 2.1 | 0.0 | 0.0 |
| 77.5° | 108.9 | 153.7 | 47.0 | 25.6 | 19.2 | 12.8 | 8.5 | 4.3 | 2.1 | 2.1 | 0.0 |
| 80° | 61.9 | 102.5 | 29.9 | 21.3 | 17.1 | 10.7 | 6.4 | 4.3 | 2.1 | 2.1 | 0.0 |
| 82.5° | 34.2 | 49.1 | 23.5 | 19.2 | 14.9 | 10.7 | 6.4 | 4.3 | 2.1 | 2.1 | 2.1 |
| 85° | 27.8 | 25.6 | 19.2 | 17.1 | 12.8 | 8.5 | 6.4 | 2.1 | 0.0 | 0.0 | 0.0 |
| 87.5° | 21.3 | 17.1 | 17.1 | 17.1 | 12.8 | 8.5 | 6.4 | 2.1 | 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)