

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: P382601

Luminaire Tested: **GAN-SA0A-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 35174.3 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

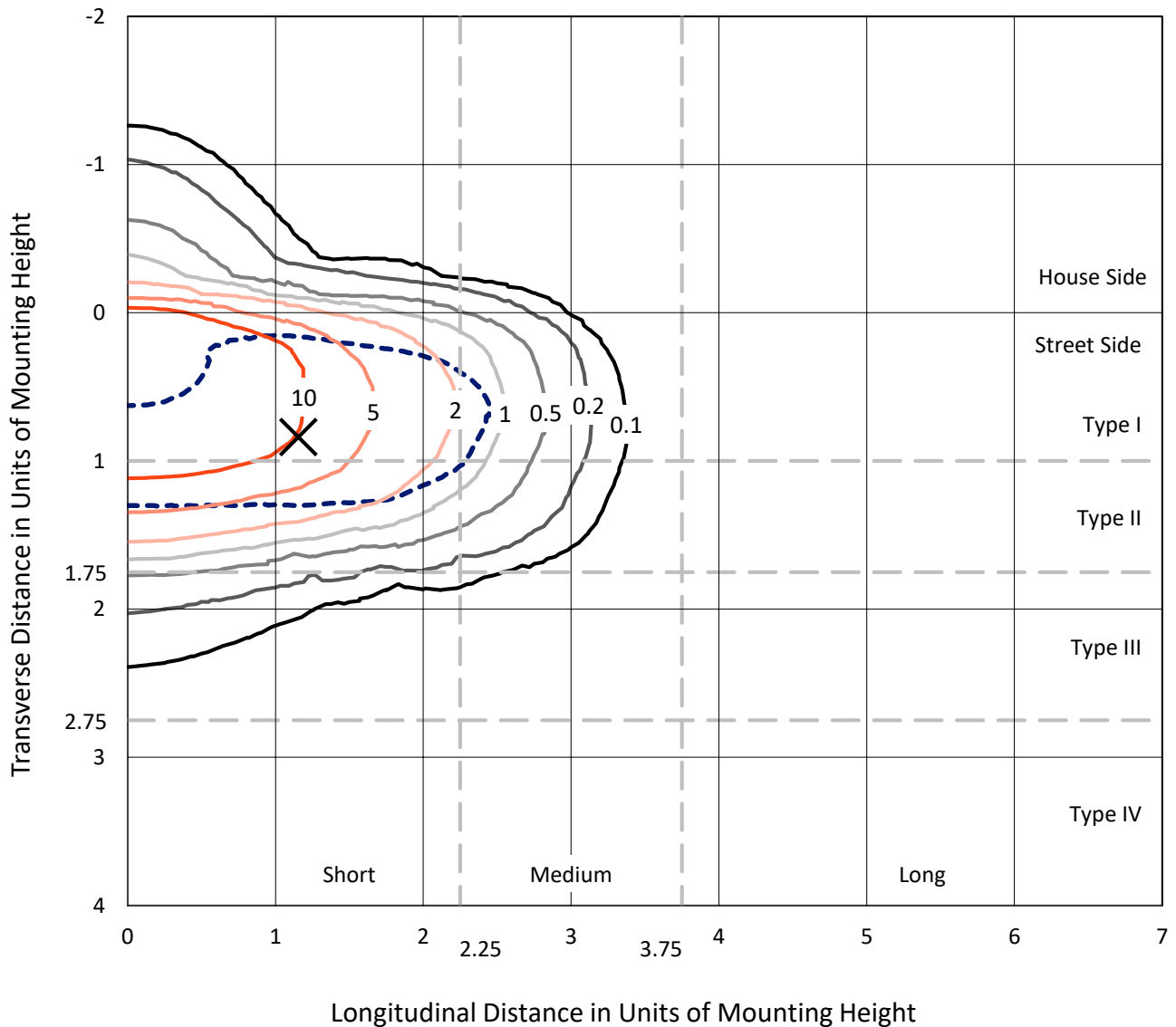
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

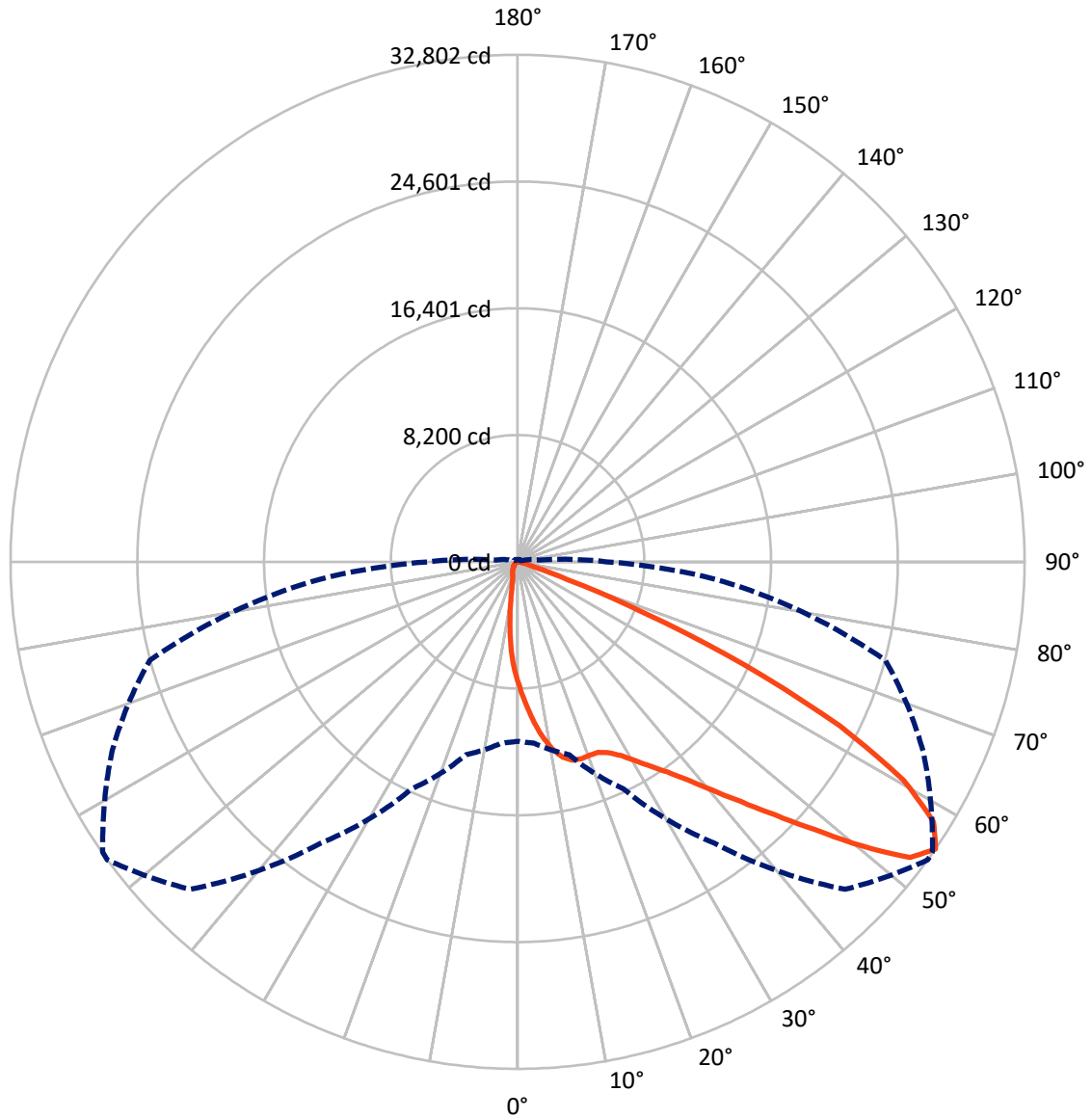
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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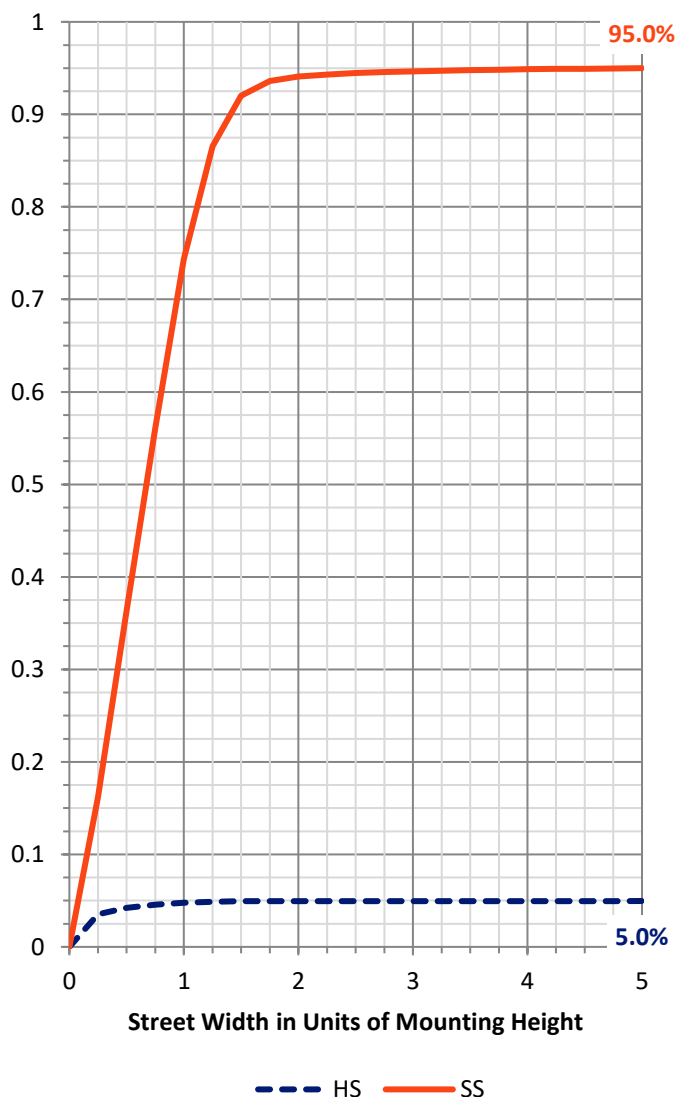
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1754.9 | 0.0 | 1754.9 |
| | % Fixture | 5.0 | 0.0 | 5.0 |
| Street Side | Lumens | 33419.4 | 0.0 | 33419.4 |
| | % Fixture | 95.0 | 0.0 | 95.0 |
| Total | Lumens | 35174.3 | 0.0 | 35174.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 725.4 | 2.1 |
| 10°-20° | 1989.6 | 5.7 |
| 20°-30° | 3396.8 | 9.7 |
| 30°-40° | 5451.3 | 15.5 |
| 40°-50° | 8711.2 | 24.8 |
| 50°-60° | 9334.3 | 26.5 |
| 60°-70° | 4792.5 | 13.6 |
| 70°-80° | 726.0 | 2.1 |
| 80°-90° | 47.3 | 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° | 35174.3 | 100.0 |
| 0°-180° | 35174.3 | 100.0 |

Coefficient of Utilization

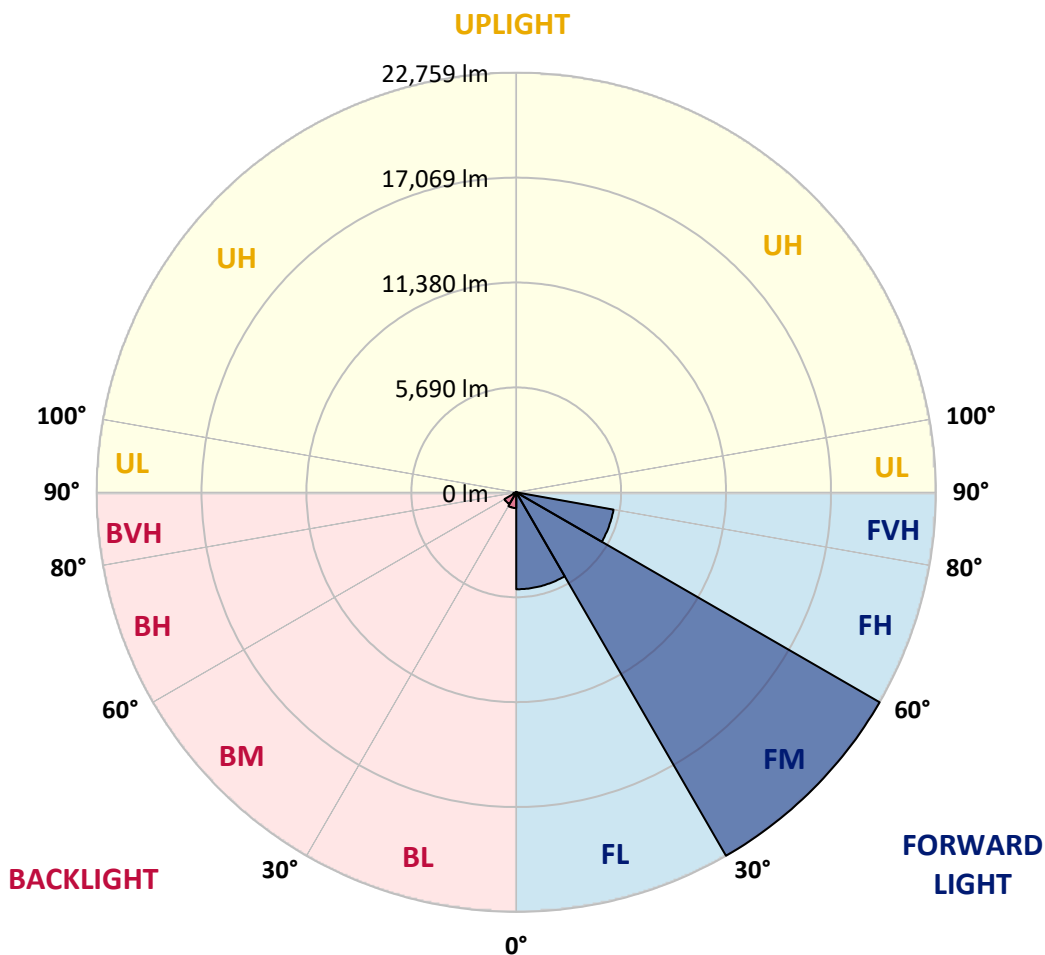


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5258.0 | 14.9 | | | |
| FM (30°-60°) | 22759.3 | 64.7 | | | |
| FH (60°-80°) | 5356.7 | 15.2 | | | G3/7500 |
| FVH (80°-90°) | 45.4 | 0.1 | | | G1/100 |
| BL (0°-30°) | 853.8 | 2.4 | B2/1000 | | |
| BM (30°-60°) | 737.5 | 2.1 | B1/1000 | | |
| BH (60°-80°) | 161.7 | 0.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.9 | 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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7877.6 | 7877.6 | 7877.6 | 7877.6 | 7877.6 | 7877.6 | 7877.6 | 7877.6 | 7877.6 | 7877.6 | 7877.6 |
| 2.5° | 9885.8 | 9738.4 | 9743.0 | 9676.2 | 9431.5 | 9240.2 | 9041.2 | 8994.1 | 8684.3 | 8359.1 | 8046.2 |
| 5° | 11594.7 | 11486.8 | 11461.0 | 11331.9 | 10991.6 | 10631.7 | 10245.8 | 10156.2 | 9550.0 | 8884.7 | 8230.0 |
| 7.5° | 12472.7 | 12474.2 | 12452.9 | 12405.8 | 12193.1 | 11843.8 | 11372.9 | 11278.7 | 10453.9 | 9455.9 | 8421.5 |
| 10° | 12217.4 | 12275.2 | 12393.7 | 12550.2 | 12712.6 | 12668.6 | 12314.7 | 12229.6 | 11333.4 | 10060.4 | 8634.1 |
| 12.5° | 11622.0 | 11629.6 | 11761.7 | 12018.5 | 12486.4 | 12966.3 | 12972.5 | 12943.6 | 12173.5 | 10692.4 | 8868.1 |
| 15° | 11325.8 | 11354.6 | 11403.3 | 11568.9 | 12012.4 | 12781.0 | 13330.9 | 13371.9 | 12943.6 | 11363.8 | 9117.1 |
| 17.5° | 11520.3 | 11561.3 | 11520.3 | 11540.0 | 11796.7 | 12487.9 | 13393.2 | 13498.0 | 13616.5 | 12027.6 | 9352.6 |
| 20° | 12047.3 | 12085.3 | 12012.4 | 11931.9 | 11982.0 | 12402.8 | 13349.2 | 13490.4 | 14143.6 | 12617.0 | 9550.0 |
| 22.5° | 12758.2 | 12773.5 | 12662.5 | 12530.4 | 12493.9 | 12691.4 | 13385.6 | 13531.4 | 14565.9 | 13150.2 | 9674.6 |
| 25° | 13540.5 | 13554.2 | 13416.0 | 13264.1 | 13177.5 | 13258.0 | 13684.8 | 13794.2 | 14938.0 | 13659.0 | 9746.0 |
| 27.5° | 14392.7 | 14404.9 | 14231.7 | 14044.9 | 13944.6 | 13947.6 | 14178.5 | 14295.5 | 15334.5 | 14239.3 | 9803.8 |
| 30° | 15293.5 | 15287.4 | 15127.9 | 14868.2 | 14740.5 | 14737.5 | 14889.4 | 15007.9 | 15908.7 | 14983.6 | 9882.7 |
| 32.5° | 16305.2 | 16293.0 | 16066.7 | 15744.6 | 15600.3 | 15621.6 | 15756.8 | 15825.1 | 16621.1 | 15776.5 | 10024.0 |
| 35° | 17637.4 | 17602.4 | 17260.6 | 16861.1 | 16595.2 | 16587.7 | 16701.6 | 16756.3 | 17529.5 | 16736.6 | 10259.4 |
| 37.5° | 19365.9 | 19334.1 | 18870.7 | 18290.5 | 17916.8 | 17777.1 | 17912.3 | 17982.1 | 18825.2 | 17968.4 | 10637.7 |
| 40° | 21070.3 | 21038.4 | 20763.5 | 20231.8 | 19656.1 | 19320.4 | 19426.8 | 19501.2 | 20443.0 | 19463.2 | 11114.7 |
| 42.5° | 22246.0 | 22273.4 | 22369.1 | 22413.1 | 21873.9 | 21169.0 | 21217.7 | 21295.1 | 22142.7 | 21061.2 | 11660.0 |
| 45° | 22555.9 | 22615.2 | 23155.9 | 24217.7 | 24419.8 | 23869.9 | 23361.0 | 23403.5 | 23869.9 | 22659.2 | 12205.3 |
| 47.5° | 21624.8 | 21734.1 | 22777.7 | 24752.4 | 26462.8 | 26851.7 | 25888.6 | 25832.5 | 25527.1 | 23951.9 | 12592.7 |
| 50° | 19508.7 | 19609.0 | 20960.9 | 23882.0 | 27082.6 | 29698.3 | 28917.6 | 28752.0 | 26980.8 | 24725.0 | 12729.4 |
| 52.5° | 16446.4 | 16567.9 | 17666.1 | 21141.8 | 25914.4 | 30968.3 | 31785.4 | 31647.3 | 28047.1 | 24785.9 | 12752.1 |
| 55° | 11614.4 | 11761.7 | 12923.8 | 16203.3 | 22212.7 | 29958.1 | 32801.7 | 32760.7 | 28932.8 | 24624.8 | 12800.8 |
| 57.5° | 6527.3 | 6633.6 | 7886.8 | 10387.0 | 16268.7 | 26093.7 | 31739.9 | 32011.8 | 29467.5 | 24345.3 | 12873.7 |
| 60° | 2898.3 | 2927.1 | 3575.7 | 5170.7 | 9524.2 | 19941.6 | 28700.3 | 29159.1 | 29008.7 | 23971.6 | 12996.8 |
| 62.5° | 1607.1 | 1582.8 | 1582.8 | 2149.5 | 4139.3 | 12345.1 | 23403.5 | 24161.6 | 27050.7 | 23529.6 | 13002.8 |
| 65° | 1259.3 | 1236.4 | 1171.1 | 1180.3 | 1576.7 | 5479.1 | 16206.4 | 17553.8 | 23332.1 | 22233.9 | 12565.4 |
| 67.5° | 1067.8 | 1048.1 | 982.8 | 957.0 | 979.8 | 1807.7 | 8904.5 | 10303.5 | 17704.2 | 18866.3 | 10883.7 |
| 70° | 902.3 | 888.6 | 855.3 | 823.3 | 765.5 | 893.2 | 3407.1 | 4358.1 | 10909.6 | 12550.2 | 7429.6 |
| 72.5° | 726.0 | 720.0 | 732.2 | 704.8 | 634.9 | 595.4 | 1165.1 | 1411.2 | 4900.3 | 5600.7 | 3060.8 |
| 75° | 625.8 | 622.8 | 628.9 | 601.5 | 522.5 | 414.7 | 592.4 | 647.1 | 1382.3 | 1370.1 | 619.8 |
| 77.5° | 407.1 | 411.7 | 521.0 | 508.9 | 449.7 | 276.5 | 306.9 | 331.2 | 419.3 | 314.4 | 188.4 |
| 80° | 259.7 | 256.7 | 264.3 | 422.3 | 404.1 | 211.2 | 153.4 | 161.0 | 202.1 | 154.9 | 91.1 |
| 82.5° | 158.0 | 154.9 | 173.2 | 197.5 | 203.5 | 147.4 | 94.2 | 95.7 | 126.0 | 100.2 | 48.6 |
| 85° | 13.7 | 18.3 | 104.8 | 97.3 | 69.9 | 45.6 | 45.6 | 48.6 | 66.8 | 59.2 | 27.4 |
| 87.5° | 0.0 | 0.0 | 18.3 | 27.4 | 15.2 | 16.7 | 16.7 | 18.3 | 25.8 | 25.8 | 13.7 |
| 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° | 7877.6 | 7877.6 | 7877.6 | 7877.6 | 7877.6 | 7877.6 | 7877.6 | 7877.6 | 7877.6 | 7877.6 | 7877.6 |
| 2.5° | 7883.7 | 7725.7 | 7406.7 | 7099.9 | 6840.2 | 6589.5 | 6304.0 | 6021.4 | 5889.2 | 5836.1 | 5781.4 |
| 5° | 7897.4 | 7572.3 | 6914.6 | 6252.3 | 5565.7 | 4947.4 | 4420.4 | 3879.6 | 3609.2 | 3490.7 | 3436.0 |
| 7.5° | 7915.6 | 7420.4 | 6357.1 | 5245.2 | 4139.3 | 3300.8 | 2568.6 | 2097.8 | 1894.2 | 1862.3 | 1783.4 |
| 10° | 7918.6 | 7236.6 | 5710.0 | 4133.3 | 2775.3 | 1989.9 | 1531.2 | 1288.1 | 1198.5 | 1183.3 | 1157.4 |
| 12.5° | 7924.8 | 7019.4 | 4991.5 | 3060.8 | 1850.1 | 1330.6 | 1107.3 | 1026.8 | 1002.5 | 1001.0 | 1001.0 |
| 15° | 7942.9 | 6791.5 | 4245.6 | 2205.6 | 1329.1 | 1054.2 | 972.2 | 940.3 | 931.2 | 935.7 | 934.2 |
| 17.5° | 7942.9 | 6522.7 | 3513.5 | 1643.6 | 1074.0 | 947.8 | 902.3 | 881.1 | 878.0 | 882.5 | 884.0 |
| 20° | 7885.3 | 6196.1 | 2842.1 | 1279.0 | 952.4 | 879.5 | 838.5 | 818.7 | 811.2 | 814.2 | 815.8 |
| 22.5° | 7747.0 | 5795.1 | 2295.2 | 1058.8 | 871.9 | 817.2 | 773.2 | 742.8 | 730.6 | 732.2 | 732.2 |
| 25° | 7531.3 | 5319.6 | 1795.5 | 916.0 | 806.6 | 750.4 | 698.8 | 663.8 | 656.2 | 654.7 | 657.8 |
| 27.5° | 7254.8 | 4794.0 | 1429.4 | 806.6 | 729.1 | 675.9 | 624.3 | 595.4 | 589.4 | 590.9 | 592.4 |
| 30° | 6983.0 | 4248.7 | 1127.1 | 713.9 | 642.6 | 592.4 | 553.0 | 539.3 | 539.3 | 543.8 | 545.3 |
| 32.5° | 6733.8 | 3724.6 | 891.7 | 633.5 | 565.1 | 519.5 | 496.7 | 495.2 | 502.8 | 505.8 | 507.3 |
| 35° | 6519.6 | 3240.1 | 738.3 | 571.1 | 504.3 | 464.8 | 457.2 | 463.3 | 472.4 | 478.5 | 480.0 |
| 37.5° | 6367.7 | 2807.1 | 645.6 | 519.5 | 457.2 | 425.3 | 423.8 | 436.0 | 448.1 | 461.8 | 464.8 |
| 40° | 6304.0 | 2441.0 | 581.8 | 474.0 | 419.3 | 395.0 | 390.4 | 407.1 | 429.9 | 449.7 | 452.6 |
| 42.5° | 6250.8 | 2141.8 | 527.1 | 429.9 | 388.8 | 353.9 | 352.4 | 373.6 | 401.0 | 420.8 | 425.3 |
| 45° | 6205.2 | 1901.8 | 477.0 | 382.8 | 349.3 | 303.8 | 308.3 | 335.7 | 357.0 | 378.2 | 382.8 |
| 47.5° | 6111.0 | 1704.4 | 422.3 | 332.7 | 288.6 | 259.7 | 268.8 | 293.2 | 309.9 | 341.8 | 346.3 |
| 50° | 5942.4 | 1543.3 | 366.1 | 271.9 | 235.4 | 224.8 | 238.5 | 255.2 | 276.5 | 303.8 | 306.9 |
| 52.5° | 5828.5 | 1421.8 | 317.5 | 227.9 | 194.4 | 197.5 | 211.2 | 217.2 | 229.3 | 240.0 | 237.0 |
| 55° | 5763.1 | 1354.9 | 278.0 | 197.5 | 165.5 | 174.7 | 177.7 | 170.1 | 164.0 | 153.4 | 148.9 |
| 57.5° | 5755.6 | 1294.2 | 247.6 | 171.7 | 145.8 | 150.4 | 139.7 | 113.9 | 92.7 | 80.5 | 77.5 |
| 60° | 5743.5 | 1219.8 | 223.3 | 144.3 | 129.1 | 123.1 | 100.2 | 62.3 | 44.1 | 41.0 | 41.0 |
| 62.5° | 5611.3 | 1104.3 | 205.0 | 121.6 | 109.4 | 92.7 | 57.8 | 28.9 | 24.3 | 25.8 | 25.8 |
| 65° | 5190.5 | 943.3 | 186.9 | 98.7 | 86.5 | 66.8 | 28.9 | 16.7 | 9.1 | 10.6 | 10.6 |
| 67.5° | 4412.7 | 751.9 | 167.1 | 75.9 | 65.3 | 42.6 | 16.7 | 7.6 | 0.0 | 0.0 | 0.0 |
| 70° | 2954.5 | 466.3 | 141.2 | 53.2 | 42.6 | 25.8 | 12.1 | 1.5 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1133.2 | 252.2 | 113.9 | 31.9 | 27.4 | 18.3 | 7.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 255.2 | 165.5 | 79.0 | 22.8 | 19.7 | 12.1 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 97.3 | 120.0 | 45.6 | 15.2 | 13.7 | 7.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 47.0 | 71.4 | 21.2 | 9.1 | 7.6 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 24.3 | 27.4 | 9.1 | 4.6 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 13.7 | 13.7 | 4.6 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.6 | 4.6 | 1.5 | 1.5 | 0.0 | 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)