

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: P191095

Luminaire Tested: **GAN-AF-07-LED-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42191.6 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

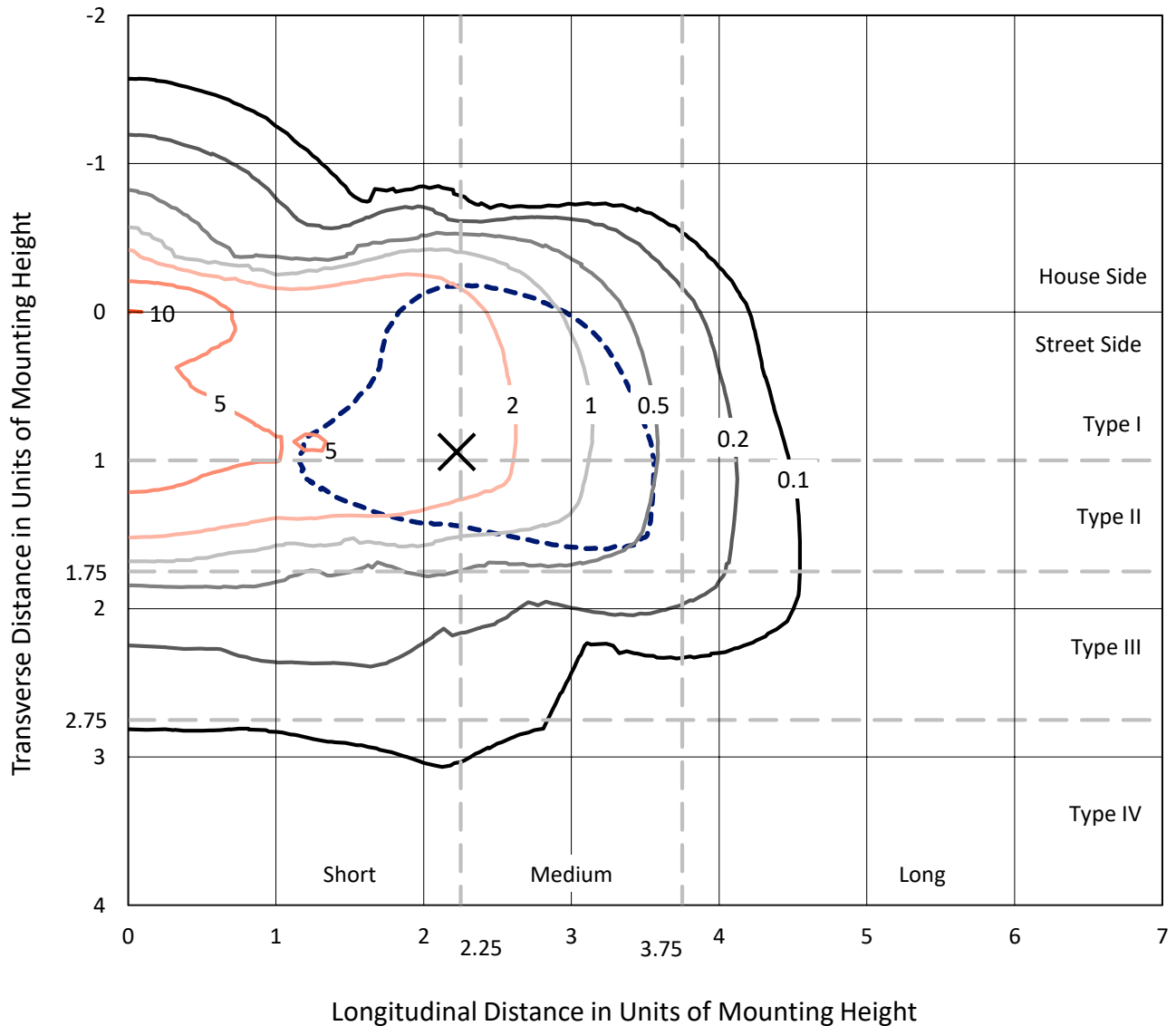
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

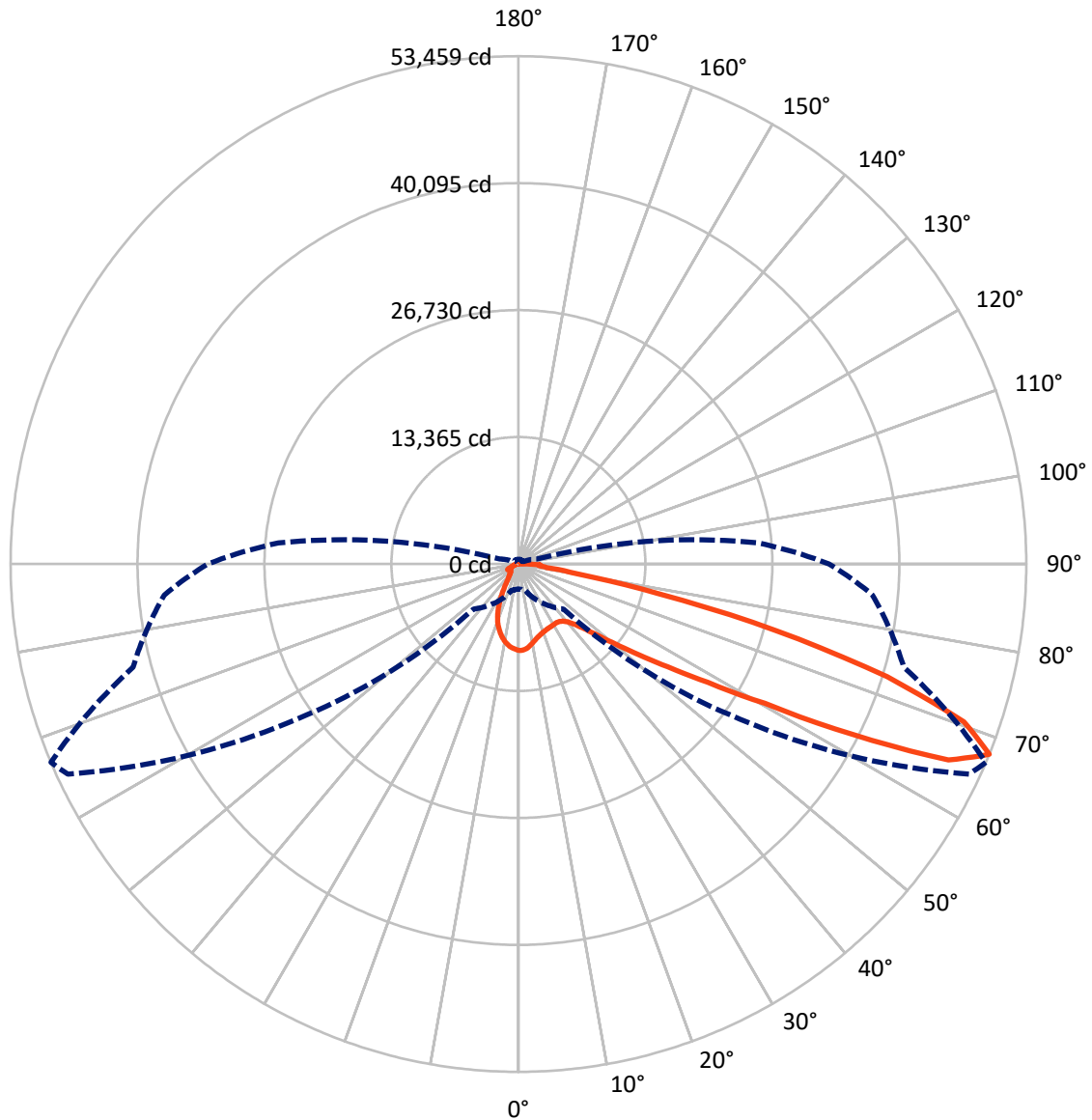


Based on 30 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6990.7 | 0.0 | 6990.7 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 35200.9 | 0.0 | 35200.9 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 42191.6 | 0.0 | 42191.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 776.4 | 1.8 |
| 10°-20° | 1796.5 | 4.3 |
| 20°-30° | 2435.2 | 5.8 |
| 30°-40° | 3461.9 | 8.2 |
| 40°-50° | 5791.9 | 13.7 |
| 50°-60° | 9162.7 | 21.7 |
| 60°-70° | 11672.4 | 27.7 |
| 70°-80° | 6114.0 | 14.5 |
| 80°-90° | 980.6 | 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° | 42191.6 | 100.0 |
| 0°-180° | 42191.6 | 100.0 |



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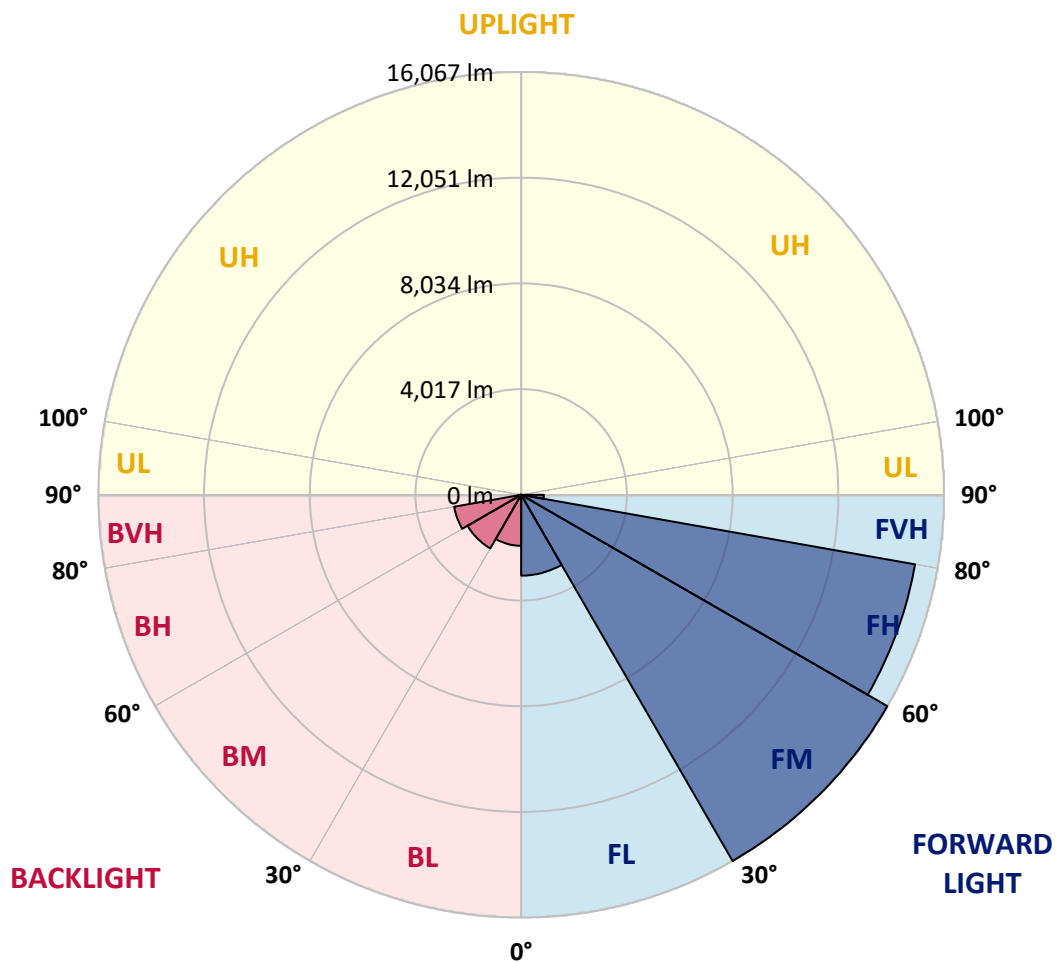
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3070.5 | 7.3 | | | |
| FM (30°-60°) | 16067.4 | 38.1 | | | |
| FH (60°-80°) | 15200.8 | 36.0 | | | G5 |
| FVH (80°-90°) | 862.2 | 2.0 | | | G5 |
| BL (0°-30°) | 1937.6 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 2349.1 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 2585.6 | 6.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 118.3 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9100.6 | 9100.6 | 9100.6 | 9100.6 | 9100.6 | 9100.6 | 9100.6 | 9100.6 | 9100.6 | 9100.6 | 9100.6 |
| 2.5° | 8726.1 | 8740.7 | 8786.4 | 8815.6 | 8946.6 | 9002.9 | 9042.4 | 9081.9 | 9088.1 | 9106.8 | 9088.1 |
| 5° | 7810.6 | 7841.8 | 7927.2 | 8022.9 | 8276.7 | 8476.5 | 8686.6 | 8905.1 | 8944.6 | 9086.1 | 9125.6 |
| 7.5° | 7101.1 | 7092.8 | 7163.5 | 7278.0 | 7538.1 | 7814.8 | 8183.1 | 8618.0 | 8703.3 | 9021.6 | 9175.6 |
| 10° | 6583.1 | 6576.9 | 6651.7 | 6770.3 | 7018.0 | 7280.0 | 7696.2 | 8291.2 | 8411.9 | 8919.6 | 9223.3 |
| 12.5° | 6200.2 | 6202.4 | 6277.2 | 6408.3 | 6660.0 | 6924.3 | 7346.6 | 7975.0 | 8129.0 | 8801.1 | 9273.4 |
| 15° | 5946.4 | 5963.1 | 6023.4 | 6162.8 | 6408.3 | 6672.5 | 7086.6 | 7737.8 | 7910.5 | 8707.4 | 9329.5 |
| 17.5° | 5861.1 | 5888.1 | 5909.0 | 6010.9 | 6221.1 | 6485.3 | 6891.0 | 7563.1 | 7746.2 | 8642.9 | 9379.4 |
| 20° | 5940.2 | 5971.4 | 5931.9 | 5967.2 | 6100.4 | 6333.4 | 6737.1 | 7425.7 | 7613.0 | 8570.1 | 9385.7 |
| 22.5° | 6279.3 | 6308.4 | 6191.9 | 6089.9 | 6081.6 | 6223.1 | 6610.1 | 7317.6 | 7511.0 | 8516.0 | 9387.7 |
| 25° | 6876.5 | 6895.2 | 6699.6 | 6462.4 | 6231.4 | 6183.6 | 6520.7 | 7242.6 | 7448.6 | 8468.1 | 9348.2 |
| 27.5° | 7608.8 | 7623.3 | 7398.7 | 7049.2 | 6585.1 | 6277.2 | 6489.5 | 7198.9 | 7413.2 | 8426.5 | 9281.6 |
| 30° | 8499.3 | 8568.0 | 8266.3 | 7825.2 | 7149.0 | 6553.9 | 6551.9 | 7176.1 | 7373.7 | 8355.8 | 9150.6 |
| 32.5° | 9410.6 | 9439.8 | 9231.7 | 8784.4 | 7908.4 | 7040.8 | 6726.6 | 7192.7 | 7363.3 | 8270.5 | 8984.1 |
| 35° | 10334.5 | 10371.9 | 10236.7 | 9876.7 | 8946.6 | 7754.5 | 7067.9 | 7290.5 | 7427.9 | 8241.3 | 8867.6 |
| 37.5° | 11530.8 | 11580.7 | 11393.4 | 10977.4 | 10209.6 | 8722.0 | 7635.9 | 7536.0 | 7625.5 | 8324.6 | 8832.3 |
| 40° | 13422.0 | 13399.2 | 12851.9 | 12231.9 | 11591.2 | 9960.0 | 8447.3 | 7952.1 | 8004.2 | 8593.0 | 8940.4 |
| 42.5° | 15623.3 | 15567.2 | 14624.7 | 13651.0 | 13109.9 | 11458.0 | 9520.9 | 8674.1 | 8663.7 | 9121.4 | 9321.1 |
| 45° | 17379.4 | 17333.6 | 16484.8 | 15284.2 | 14851.5 | 13164.0 | 10908.6 | 9749.7 | 9672.8 | 9960.0 | 10024.4 |
| 47.5° | 18330.3 | 18332.3 | 17843.4 | 16863.4 | 16853.0 | 15332.1 | 12691.8 | 11306.1 | 11172.9 | 11308.2 | 11239.5 |
| 50° | 17997.4 | 18041.1 | 17989.0 | 17676.9 | 18679.8 | 18174.2 | 15020.0 | 13476.1 | 13207.7 | 13340.9 | 13076.7 |
| 52.5° | 16387.0 | 16443.1 | 16751.0 | 17229.6 | 19447.5 | 21609.3 | 18440.5 | 16172.6 | 15860.5 | 15812.7 | 15519.3 |
| 55° | 13532.3 | 13601.1 | 14229.3 | 15529.7 | 18808.8 | 23916.7 | 23837.6 | 19609.9 | 19112.6 | 18661.1 | 18536.3 |
| 57.5° | 9327.4 | 9441.8 | 10453.0 | 12383.8 | 16742.7 | 24613.7 | 30264.7 | 24509.7 | 23498.5 | 21921.4 | 21950.5 |
| 60° | 5257.8 | 5390.8 | 6583.1 | 8337.0 | 12573.2 | 23856.3 | 35154.1 | 31931.2 | 29796.5 | 25739.3 | 25955.7 |
| 62.5° | 3343.5 | 3487.1 | 4392.1 | 5792.5 | 7544.4 | 19778.3 | 37157.8 | 42249.0 | 39538.0 | 30445.7 | 30657.9 |
| 65° | 2706.9 | 2769.3 | 3195.8 | 4781.3 | 5478.3 | 11915.7 | 35636.8 | 50748.4 | 49737.2 | 36419.2 | 35428.8 |
| 67.5° | 2642.4 | 2663.2 | 2883.7 | 4013.5 | 5253.6 | 6697.5 | 28425.5 | 52337.9 | 53459.4 | 41997.2 | 37415.8 |
| 70° | 2611.2 | 2684.0 | 3249.9 | 3830.4 | 5031.0 | 5648.8 | 17081.8 | 47981.1 | 49751.7 | 43455.8 | 34771.3 |
| 72.5° | 1267.1 | 1262.9 | 1635.4 | 3464.2 | 5667.6 | 5859.1 | 8776.1 | 38822.3 | 40599.1 | 37648.8 | 28573.2 |
| 75° | 1021.6 | 934.2 | 892.6 | 1269.2 | 5449.2 | 6050.4 | 5592.7 | 26713.0 | 27998.9 | 25242.0 | 17564.6 |
| 77.5° | 969.6 | 865.5 | 792.7 | 794.8 | 2303.3 | 6416.7 | 4737.6 | 14784.9 | 15159.4 | 11401.8 | 4812.5 |
| 80° | 803.1 | 707.4 | 655.4 | 738.6 | 1115.2 | 6110.8 | 5122.5 | 6691.2 | 6140.0 | 2800.5 | 1602.0 |
| 82.5° | 557.6 | 507.7 | 493.1 | 620.0 | 892.6 | 4354.7 | 5956.8 | 3595.3 | 3014.8 | 1402.4 | 988.3 |
| 85° | 355.8 | 303.8 | 337.1 | 451.5 | 694.9 | 2009.9 | 6135.8 | 2802.6 | 2228.3 | 890.5 | 557.6 |
| 87.5° | 164.4 | 133.2 | 166.4 | 249.7 | 453.6 | 692.8 | 5838.2 | 3147.9 | 2294.9 | 470.3 | 351.6 |
| 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° | 9100.6 | 9100.6 | 9100.6 | 9100.6 | 9100.6 | 9100.6 | 9100.6 | 9100.6 | 9100.6 | 9100.6 | 9100.6 |
| 2.5° | 9104.8 | 9065.3 | 9034.1 | 8975.8 | 8911.3 | 8848.8 | 8792.7 | 8722.0 | 8701.1 | 8682.4 | 8711.6 |
| 5° | 9133.9 | 9094.3 | 8980.0 | 8801.1 | 8603.3 | 8418.2 | 8233.0 | 8074.9 | 7977.1 | 7923.0 | 7954.2 |
| 7.5° | 9177.6 | 9121.4 | 8884.2 | 8555.6 | 8199.8 | 7875.2 | 7540.2 | 7271.7 | 7074.1 | 6980.5 | 7007.5 |
| 10° | 9217.1 | 9109.0 | 8722.0 | 8228.8 | 7708.7 | 7226.0 | 6697.5 | 6260.6 | 5936.0 | 5765.4 | 5807.0 |
| 12.5° | 9233.8 | 9061.1 | 8495.2 | 7821.1 | 7107.4 | 6400.0 | 5621.8 | 4968.5 | 4502.4 | 4331.9 | 4296.5 |
| 15° | 9250.4 | 9007.0 | 8245.5 | 7357.1 | 6381.3 | 5380.5 | 4290.3 | 3507.9 | 3120.9 | 3035.6 | 3016.9 |
| 17.5° | 9254.6 | 8913.4 | 7962.5 | 6853.6 | 5530.3 | 4167.5 | 2933.7 | 2436.4 | 2438.5 | 2575.8 | 2592.5 |
| 20° | 9210.9 | 8774.0 | 7619.2 | 6227.3 | 4510.8 | 2881.7 | 2014.1 | 1928.8 | 2242.9 | 2586.2 | 2627.9 |
| 22.5° | 9111.0 | 8588.8 | 7230.1 | 5497.0 | 3343.5 | 1897.6 | 1558.4 | 1652.0 | 2057.8 | 2478.0 | 2525.9 |
| 25° | 8984.1 | 8364.1 | 6770.3 | 4650.2 | 2213.8 | 1356.5 | 1306.6 | 1421.1 | 1695.7 | 1976.5 | 2003.7 |
| 27.5° | 8811.4 | 8097.8 | 6254.3 | 3680.6 | 1437.8 | 1117.3 | 1150.6 | 1227.5 | 1340.0 | 1464.8 | 1477.2 |
| 30° | 8588.8 | 7779.4 | 5703.0 | 2684.0 | 1086.1 | 1004.9 | 1052.8 | 1094.5 | 1142.2 | 1213.0 | 1219.3 |
| 32.5° | 8332.9 | 7473.6 | 5137.1 | 1853.8 | 963.3 | 946.6 | 984.2 | 1004.9 | 1042.4 | 1086.1 | 1090.3 |
| 35° | 8118.5 | 7182.3 | 4550.3 | 1310.8 | 911.3 | 903.0 | 927.9 | 936.3 | 971.6 | 1019.5 | 1023.7 |
| 37.5° | 7995.8 | 6945.1 | 3944.8 | 1056.9 | 876.0 | 863.5 | 878.0 | 878.0 | 927.9 | 998.7 | 1009.1 |
| 40° | 8004.2 | 6814.0 | 3339.4 | 955.0 | 846.8 | 830.1 | 832.3 | 832.3 | 896.7 | 973.7 | 980.0 |
| 42.5° | 8231.0 | 6847.3 | 2802.6 | 915.4 | 823.9 | 805.2 | 794.8 | 801.1 | 855.1 | 905.1 | 909.2 |
| 45° | 8763.5 | 7082.4 | 2299.1 | 890.5 | 801.1 | 794.8 | 771.9 | 769.9 | 790.6 | 813.6 | 813.6 |
| 47.5° | 9637.4 | 7546.4 | 1957.8 | 873.9 | 782.4 | 780.2 | 753.2 | 726.1 | 724.0 | 732.3 | 732.3 |
| 50° | 11058.5 | 8345.3 | 1729.0 | 855.1 | 769.9 | 753.2 | 722.0 | 680.4 | 665.8 | 672.1 | 672.1 |
| 52.5° | 13189.0 | 9770.6 | 1641.6 | 830.1 | 742.8 | 715.8 | 680.4 | 638.7 | 626.3 | 628.3 | 628.3 |
| 55° | 15983.3 | 11959.4 | 1629.2 | 801.1 | 713.6 | 669.9 | 640.9 | 609.6 | 595.1 | 599.2 | 599.2 |
| 57.5° | 19397.6 | 14986.7 | 1851.7 | 755.2 | 674.1 | 624.2 | 607.5 | 586.8 | 576.3 | 582.6 | 580.5 |
| 60° | 23548.4 | 18948.2 | 2746.4 | 707.4 | 634.6 | 582.6 | 582.6 | 565.9 | 557.6 | 563.9 | 561.8 |
| 62.5° | 28329.7 | 23498.5 | 3861.6 | 672.1 | 593.0 | 549.3 | 557.6 | 549.3 | 540.9 | 545.1 | 543.1 |
| 65° | 32570.0 | 26463.4 | 3616.1 | 645.0 | 551.4 | 518.1 | 532.7 | 528.5 | 522.2 | 526.4 | 524.4 |
| 67.5° | 32692.8 | 25364.8 | 2030.7 | 615.8 | 511.8 | 486.8 | 507.7 | 505.5 | 501.5 | 505.5 | 503.5 |
| 70° | 29176.5 | 21417.9 | 1144.4 | 561.8 | 470.3 | 449.4 | 478.5 | 476.5 | 472.3 | 480.6 | 478.5 |
| 72.5° | 23375.8 | 15542.2 | 836.4 | 495.2 | 428.6 | 409.9 | 443.1 | 441.1 | 441.1 | 453.6 | 447.3 |
| 75° | 13451.2 | 7997.9 | 667.9 | 424.4 | 384.9 | 370.3 | 399.5 | 401.6 | 405.7 | 422.4 | 409.9 |
| 77.5° | 3834.5 | 2492.6 | 545.1 | 360.0 | 330.8 | 324.6 | 353.7 | 357.8 | 360.0 | 378.7 | 362.0 |
| 80° | 1425.2 | 1148.5 | 449.4 | 301.7 | 270.5 | 272.5 | 299.6 | 305.9 | 307.9 | 326.6 | 305.9 |
| 82.5° | 909.2 | 757.4 | 364.1 | 233.0 | 212.3 | 210.1 | 243.5 | 251.7 | 251.7 | 253.8 | 241.3 |
| 85° | 530.6 | 453.6 | 274.7 | 168.5 | 149.8 | 143.5 | 181.1 | 195.6 | 189.3 | 185.2 | 176.9 |
| 87.5° | 355.8 | 312.1 | 168.5 | 93.6 | 81.1 | 77.0 | 106.1 | 116.5 | 112.3 | 106.1 | 99.8 |
| 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)