

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: P191955

Luminaire Tested: **GAN-AF-07-LED-U-SL3-7050-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7050-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27742 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 226
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

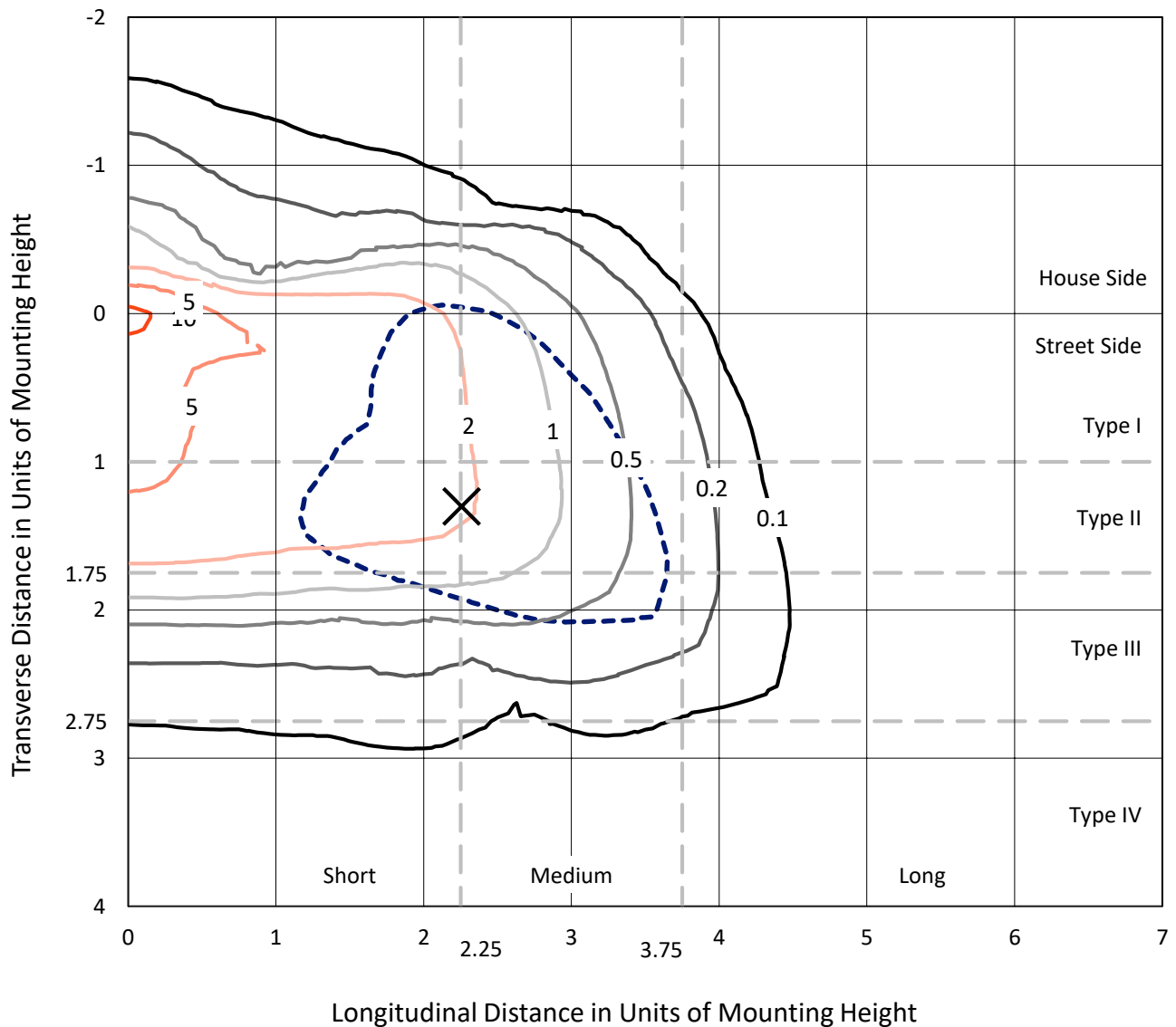


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

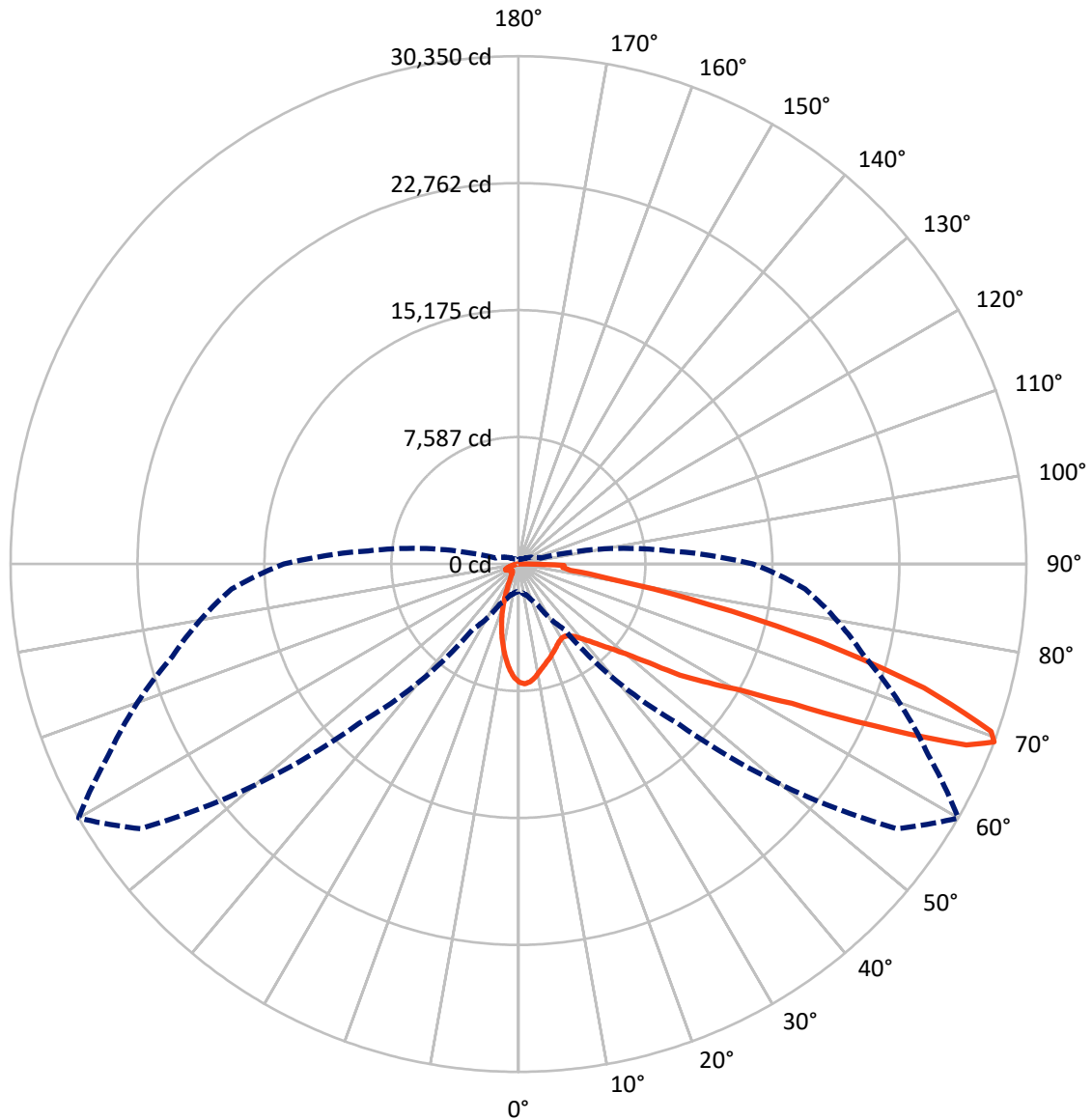


Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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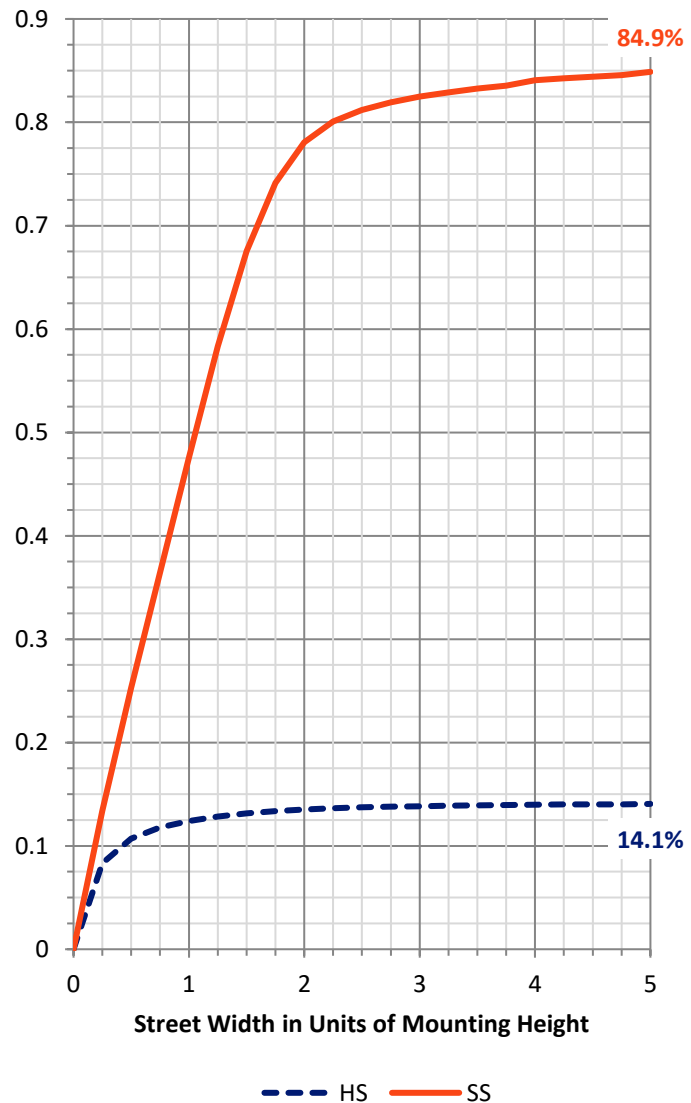
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3946.8 | 0.0 | 3946.8 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 23795.2 | 0.0 | 23795.2 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 27742.0 | 0.0 | 27742.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 597.7 | 2.2 |
| 10°-20° | 1273.5 | 4.6 |
| 20°-30° | 1622.6 | 5.8 |
| 30°-40° | 2230.7 | 8.0 |
| 40°-50° | 3619.5 | 13.0 |
| 50°-60° | 5804.8 | 20.9 |
| 60°-70° | 7725.8 | 27.8 |
| 70°-80° | 4171.3 | 15.0 |
| 80°-90° | 696.0 | 2.5 |
| 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° | 27742.0 | 100.0 |
| 0°-180° | 27742.0 | 100.0 |

Coefficient of Utilization



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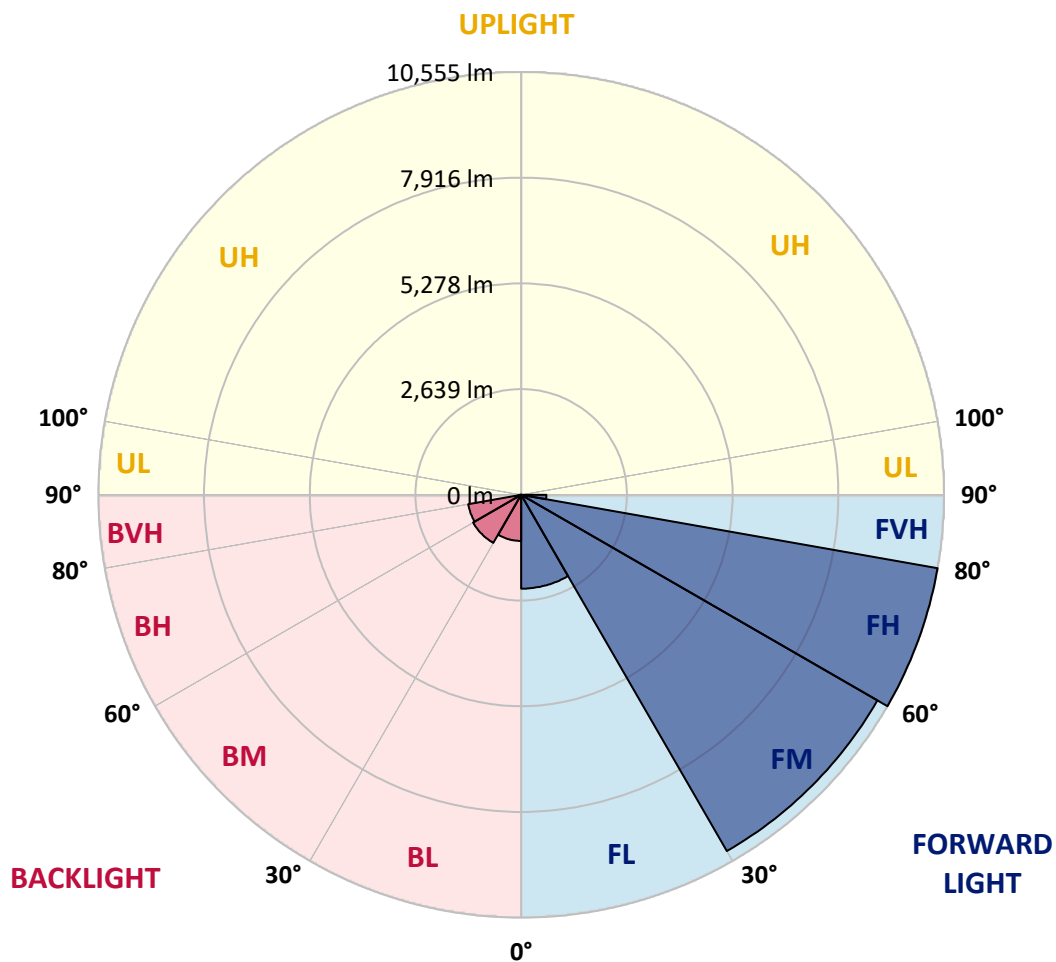
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2342.4 | 8.4 | | | |
| FM | (30°-60°) | 10268.5 | 37.0 | | | |
| FH | (60°-80°) | 10555.3 | 38.0 | | | G4/12000 |
| FVH | (80°-90°) | 629.0 | 2.3 | | | G4/750 |
| BL | (0°-30°) | 1151.4 | 4.2 | B3/2500 | | |
| BM | (30°-60°) | 1386.6 | 5.0 | B2/2500 | | |
| BH | (60°-80°) | 1341.8 | 4.8 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 67.0 | 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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7069.1 | 7069.1 | 7069.1 | 7069.1 | 7069.1 | 7069.1 | 7069.1 | 7069.1 | 7069.1 | 7069.1 | 7069.1 |
| 2.5° | 7213.8 | 7229.9 | 7223.2 | 7219.2 | 7231.2 | 7212.5 | 7173.6 | 7161.6 | 7142.8 | 7098.6 | 7023.5 |
| 5° | 6943.1 | 6991.4 | 6988.7 | 7024.9 | 7085.2 | 7101.2 | 7083.8 | 7086.5 | 7051.7 | 6996.7 | 6872.1 |
| 7.5° | 6475.4 | 6495.5 | 6506.2 | 6585.3 | 6695.2 | 6783.6 | 6858.7 | 6882.8 | 6866.7 | 6819.8 | 6659.0 |
| 10° | 5993.0 | 6009.1 | 6034.5 | 6127.0 | 6266.4 | 6388.3 | 6530.4 | 6612.1 | 6646.9 | 6638.9 | 6459.3 |
| 12.5° | 5578.9 | 5595.0 | 5628.5 | 5733.0 | 5899.2 | 6049.3 | 6255.6 | 6357.5 | 6440.6 | 6490.2 | 6297.2 |
| 15° | 5207.7 | 5242.5 | 5274.7 | 5395.3 | 5581.6 | 5778.6 | 6011.7 | 6140.4 | 6269.0 | 6380.3 | 6153.8 |
| 17.5° | 4918.2 | 4953.0 | 4971.8 | 5081.7 | 5280.0 | 5521.3 | 5794.6 | 5946.1 | 6106.9 | 6289.1 | 6011.7 |
| 20° | 4750.7 | 4766.8 | 4758.7 | 4820.4 | 4998.6 | 5254.6 | 5578.9 | 5754.4 | 5948.8 | 6203.4 | 5869.7 |
| 22.5° | 4703.8 | 4705.1 | 4675.6 | 4668.9 | 4784.2 | 5000.0 | 5348.4 | 5561.5 | 5800.0 | 6147.1 | 5747.7 |
| 25° | 4817.7 | 4813.7 | 4733.3 | 4667.6 | 4679.7 | 4805.6 | 5125.9 | 5373.8 | 5675.4 | 6135.0 | 5653.9 |
| 27.5° | 5071.0 | 5083.0 | 4963.8 | 4840.5 | 4718.5 | 4714.5 | 4957.1 | 5218.4 | 5573.5 | 6190.0 | 5613.7 |
| 30° | 5426.1 | 5446.2 | 5318.9 | 5162.1 | 4932.9 | 4744.0 | 4891.4 | 5125.9 | 5510.5 | 6303.9 | 5607.0 |
| 32.5° | 5814.7 | 5836.2 | 5739.7 | 5574.9 | 5274.7 | 4926.2 | 4937.0 | 5134.0 | 5507.9 | 6463.4 | 5652.6 |
| 35° | 6228.8 | 6253.0 | 6203.4 | 6064.0 | 5730.3 | 5262.6 | 5111.2 | 5264.0 | 5595.0 | 6707.3 | 5774.5 |
| 37.5° | 6691.2 | 6728.7 | 6742.1 | 6609.4 | 6253.0 | 5706.2 | 5396.6 | 5510.5 | 5792.0 | 7046.3 | 5998.3 |
| 40° | 7357.2 | 7409.5 | 7405.5 | 7215.2 | 6852.0 | 6305.2 | 5837.5 | 5867.0 | 6098.8 | 7499.3 | 6356.1 |
| 42.5° | 8633.0 | 8643.7 | 8310.0 | 7895.9 | 7511.3 | 6935.1 | 6357.5 | 6333.4 | 6522.3 | 8072.8 | 6882.8 |
| 45° | 10255.9 | 10211.6 | 9469.2 | 8669.2 | 8200.1 | 7658.7 | 7034.2 | 6916.3 | 7059.7 | 8772.4 | 7542.1 |
| 47.5° | 11602.7 | 11500.8 | 10562.8 | 9458.5 | 8929.2 | 8445.4 | 7828.9 | 7622.5 | 7701.6 | 9565.7 | 8394.5 |
| 50° | 12070.4 | 11994.0 | 11216.7 | 10115.2 | 9619.3 | 9404.9 | 8807.2 | 8515.1 | 8536.5 | 10511.8 | 9392.8 |
| 52.5° | 11969.9 | 11959.1 | 11440.5 | 10548.0 | 10265.2 | 10412.7 | 10192.9 | 9797.5 | 9588.5 | 11562.5 | 10470.3 |
| 55° | 11732.7 | 11755.4 | 11567.8 | 11051.9 | 11003.6 | 11385.6 | 12003.4 | 11711.2 | 11061.3 | 12622.5 | 11583.9 |
| 57.5° | 10908.5 | 10967.5 | 11380.2 | 11685.8 | 12192.3 | 12760.5 | 13461.4 | 13378.3 | 12646.6 | 13768.3 | 12907.9 |
| 60° | 8788.4 | 8925.1 | 10032.1 | 11562.5 | 13415.8 | 15192.8 | 15506.4 | 15313.4 | 14281.6 | 15190.2 | 14656.8 |
| 62.5° | 6157.8 | 6299.9 | 7615.8 | 10010.6 | 13214.8 | 17940.1 | 19162.2 | 18330.0 | 16629.4 | 17284.7 | 16920.2 |
| 65° | 3296.7 | 3365.0 | 4370.1 | 6945.8 | 11156.4 | 18506.9 | 24505.3 | 23238.9 | 20346.9 | 19867.1 | 18856.7 |
| 67.5° | 1818.5 | 1856.1 | 2240.7 | 3507.1 | 7145.5 | 16297.1 | 27909.1 | 28866.0 | 24993.1 | 21586.5 | 18504.2 |
| 69° | 1644.3 | 1679.2 | 1931.1 | 2656.1 | 4781.5 | 13474.8 | 27576.8 | 30349.5 | 27030.0 | 21416.3 | 17201.7 |
| 70° | 1608.1 | 1640.3 | 1866.8 | 2448.4 | 3870.2 | 11106.8 | 26463.2 | 29970.2 | 27515.1 | 20806.6 | 16065.2 |
| 72.5° | 1447.3 | 1482.2 | 1701.9 | 2199.1 | 3307.4 | 5537.3 | 20962.0 | 25340.1 | 24981.0 | 18040.6 | 12185.6 |
| 75° | 1349.5 | 1381.7 | 1754.2 | 2153.6 | 3166.7 | 3504.4 | 13819.2 | 18675.8 | 18363.5 | 12619.8 | 6570.6 |
| 77.5° | 577.6 | 574.9 | 813.4 | 1822.6 | 3213.6 | 3393.2 | 7425.6 | 11667.0 | 10644.5 | 5393.9 | 1886.9 |
| 80° | 386.0 | 379.3 | 386.0 | 536.0 | 2946.9 | 3411.9 | 3890.3 | 5921.9 | 4473.3 | 1375.0 | 930.0 |
| 82.5° | 332.3 | 327.0 | 339.0 | 327.0 | 1035.9 | 3894.4 | 3307.4 | 3149.3 | 2126.8 | 781.3 | 461.0 |
| 85° | 223.8 | 214.4 | 292.1 | 293.5 | 489.1 | 3460.2 | 3725.5 | 2660.1 | 1720.7 | 463.7 | 227.8 |
| 87.5° | 107.2 | 104.5 | 170.2 | 207.7 | 286.8 | 1405.8 | 4179.8 | 2725.8 | 1735.4 | 237.2 | 108.5 |
| 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° | 7069.1 | 7069.1 | 7069.1 | 7069.1 | 7069.1 | 7069.1 | 7069.1 | 7069.1 | 7069.1 | 7069.1 | 7069.1 |
| 2.5° | 7000.7 | 6945.8 | 6892.2 | 6827.9 | 6760.9 | 6685.8 | 6648.3 | 6610.8 | 6601.4 | 6590.7 | 6553.1 |
| 5° | 6807.8 | 6730.0 | 6596.0 | 6448.6 | 6293.2 | 6141.7 | 6026.5 | 5954.1 | 5899.2 | 5871.0 | 5821.4 |
| 7.5° | 6558.5 | 6444.6 | 6210.1 | 5955.5 | 5694.1 | 5455.6 | 5249.2 | 5119.2 | 4995.9 | 4938.3 | 4872.6 |
| 10° | 6321.3 | 6151.1 | 5786.6 | 5411.4 | 5036.1 | 4675.6 | 4336.6 | 4096.7 | 3883.6 | 3764.4 | 3679.9 |
| 12.5° | 6117.6 | 5884.4 | 5379.2 | 4871.3 | 4356.7 | 3843.4 | 3335.5 | 2936.2 | 2602.5 | 2426.9 | 2337.2 |
| 15° | 5919.3 | 5637.8 | 4991.9 | 4347.3 | 3686.6 | 2988.4 | 2321.1 | 1868.1 | 1592.1 | 1482.2 | 1444.6 |
| 17.5° | 5739.7 | 5379.2 | 4603.3 | 3819.3 | 2995.1 | 2150.9 | 1559.9 | 1310.6 | 1204.8 | 1168.6 | 1156.5 |
| 20° | 5545.4 | 5117.9 | 4199.9 | 3267.2 | 2274.2 | 1503.6 | 1218.2 | 1108.3 | 1065.4 | 1054.7 | 1049.3 |
| 22.5° | 5357.8 | 4860.6 | 3814.0 | 2676.2 | 1633.6 | 1160.5 | 1046.6 | 1001.1 | 994.4 | 1003.7 | 1003.7 |
| 25° | 5198.3 | 4630.1 | 3397.2 | 2058.4 | 1199.4 | 976.9 | 936.7 | 926.0 | 951.5 | 986.3 | 993.0 |
| 27.5° | 5079.0 | 4441.1 | 2953.6 | 1519.7 | 955.5 | 849.6 | 848.3 | 865.7 | 928.7 | 995.7 | 1009.1 |
| 30° | 4997.3 | 4261.6 | 2479.2 | 1096.2 | 801.4 | 747.8 | 769.2 | 806.7 | 899.2 | 994.4 | 1019.8 |
| 32.5° | 4955.7 | 4128.9 | 1984.7 | 848.3 | 686.1 | 656.7 | 692.8 | 738.4 | 829.5 | 918.0 | 951.5 |
| 35° | 4987.9 | 4031.1 | 1518.3 | 707.6 | 605.7 | 582.9 | 620.5 | 664.7 | 718.3 | 755.8 | 781.3 |
| 37.5° | 5108.5 | 3992.2 | 1145.8 | 633.9 | 550.8 | 529.3 | 558.8 | 584.3 | 605.7 | 616.5 | 628.5 |
| 40° | 5368.5 | 4033.7 | 918.0 | 596.3 | 520.0 | 493.2 | 505.2 | 514.6 | 528.0 | 538.7 | 544.1 |
| 42.5° | 5751.8 | 4158.4 | 822.8 | 581.6 | 503.9 | 465.0 | 462.3 | 466.4 | 483.8 | 503.9 | 507.9 |
| 45° | 6287.8 | 4378.1 | 816.1 | 591.0 | 495.8 | 442.2 | 430.2 | 435.5 | 462.3 | 493.2 | 498.5 |
| 47.5° | 6972.6 | 4713.2 | 869.7 | 619.1 | 502.5 | 430.2 | 410.1 | 416.8 | 450.3 | 491.8 | 498.5 |
| 50° | 7802.1 | 5180.9 | 959.5 | 660.7 | 532.0 | 432.9 | 403.4 | 407.4 | 442.2 | 487.8 | 494.5 |
| 52.5° | 8781.7 | 5844.2 | 1057.3 | 700.9 | 562.8 | 450.3 | 408.7 | 399.4 | 431.5 | 471.7 | 479.8 |
| 55° | 9871.3 | 6695.2 | 1157.9 | 737.1 | 578.9 | 471.7 | 419.5 | 388.6 | 411.4 | 444.9 | 451.6 |
| 57.5° | 11208.7 | 7885.2 | 1332.1 | 771.9 | 589.6 | 486.5 | 430.2 | 377.9 | 386.0 | 410.1 | 415.4 |
| 60° | 13019.2 | 9568.4 | 1639.0 | 829.5 | 613.8 | 491.8 | 428.8 | 368.5 | 360.5 | 373.9 | 376.6 |
| 62.5° | 15188.8 | 11396.3 | 1894.9 | 901.9 | 654.0 | 495.8 | 420.8 | 361.8 | 339.0 | 339.0 | 341.7 |
| 65° | 16476.7 | 11885.4 | 1752.9 | 962.2 | 687.5 | 491.8 | 411.4 | 355.1 | 323.0 | 308.2 | 309.6 |
| 67.5° | 15384.5 | 10452.9 | 1502.3 | 974.3 | 686.1 | 473.1 | 396.7 | 343.1 | 306.9 | 284.1 | 282.8 |
| 69° | 14016.2 | 9018.9 | 1389.7 | 942.1 | 654.0 | 448.9 | 377.9 | 329.7 | 294.8 | 270.7 | 269.4 |
| 70° | 12913.3 | 8143.9 | 1316.0 | 907.3 | 619.1 | 431.5 | 363.2 | 317.6 | 285.4 | 262.7 | 260.0 |
| 72.5° | 9388.8 | 5336.3 | 1124.4 | 779.9 | 510.6 | 361.8 | 313.6 | 278.7 | 254.6 | 241.2 | 238.5 |
| 75° | 4691.7 | 2544.9 | 912.6 | 632.5 | 391.3 | 289.5 | 257.3 | 233.2 | 221.1 | 218.4 | 217.1 |
| 77.5° | 1541.1 | 1165.9 | 652.6 | 471.7 | 290.8 | 226.5 | 207.7 | 190.3 | 187.6 | 195.7 | 193.0 |
| 80° | 846.9 | 678.1 | 414.1 | 312.2 | 198.3 | 166.2 | 163.5 | 154.1 | 158.1 | 171.5 | 168.9 |
| 82.5° | 431.5 | 352.4 | 256.0 | 187.6 | 134.0 | 119.3 | 130.0 | 124.6 | 130.0 | 142.1 | 140.7 |
| 85° | 213.1 | 193.0 | 162.2 | 113.9 | 88.4 | 76.4 | 92.5 | 96.5 | 99.2 | 108.5 | 108.5 |
| 87.5° | 123.3 | 113.9 | 85.8 | 53.6 | 44.2 | 40.2 | 53.6 | 52.3 | 61.6 | 67.0 | 65.7 |
| 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)