

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: P480638

Luminaire Tested: **IFLD-L-SA7A-827-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480638
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

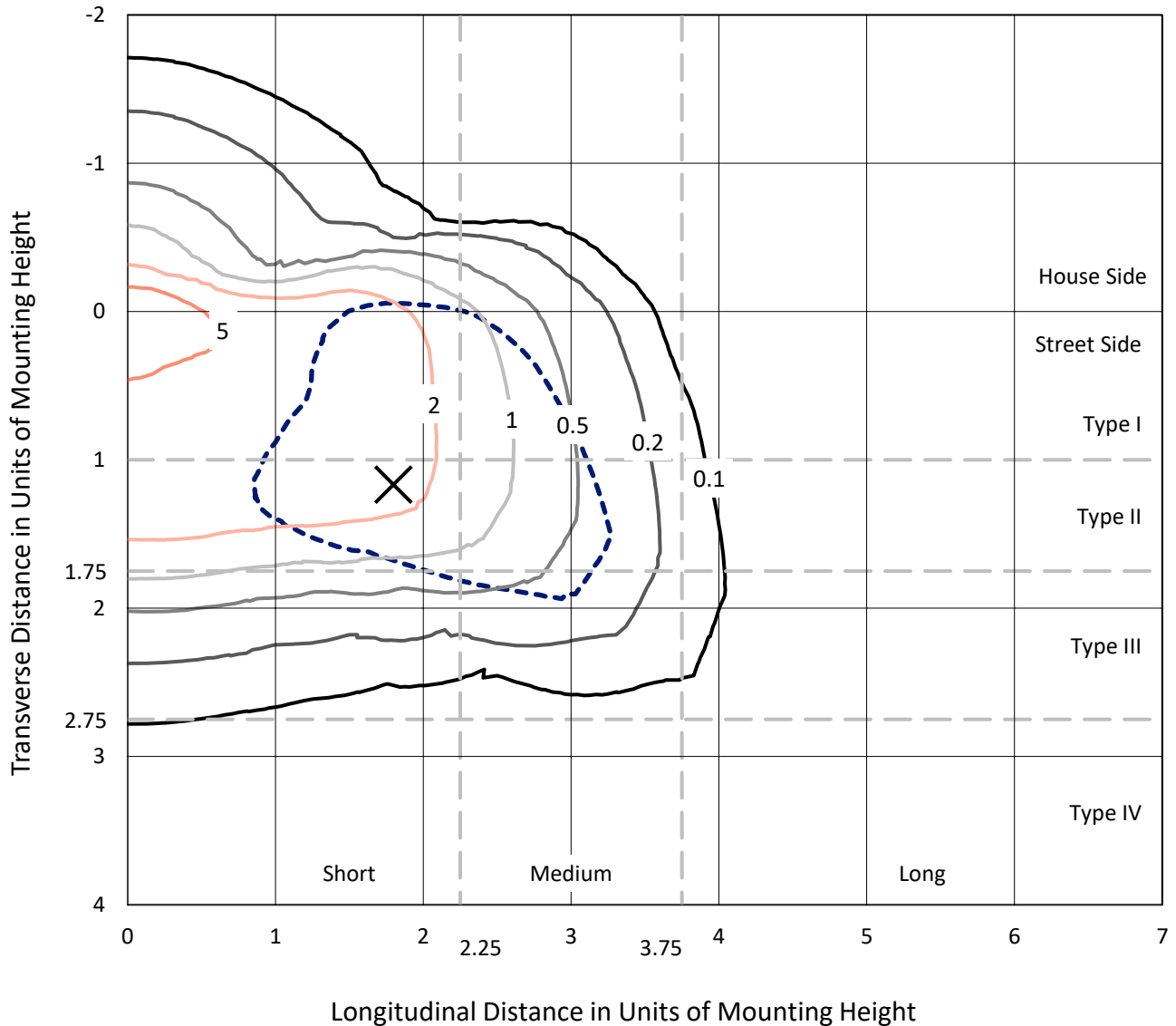
Lumens per Lamp: N/A
Luminaire Lumens: 22703.6 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
Input Voltage (V): 120
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

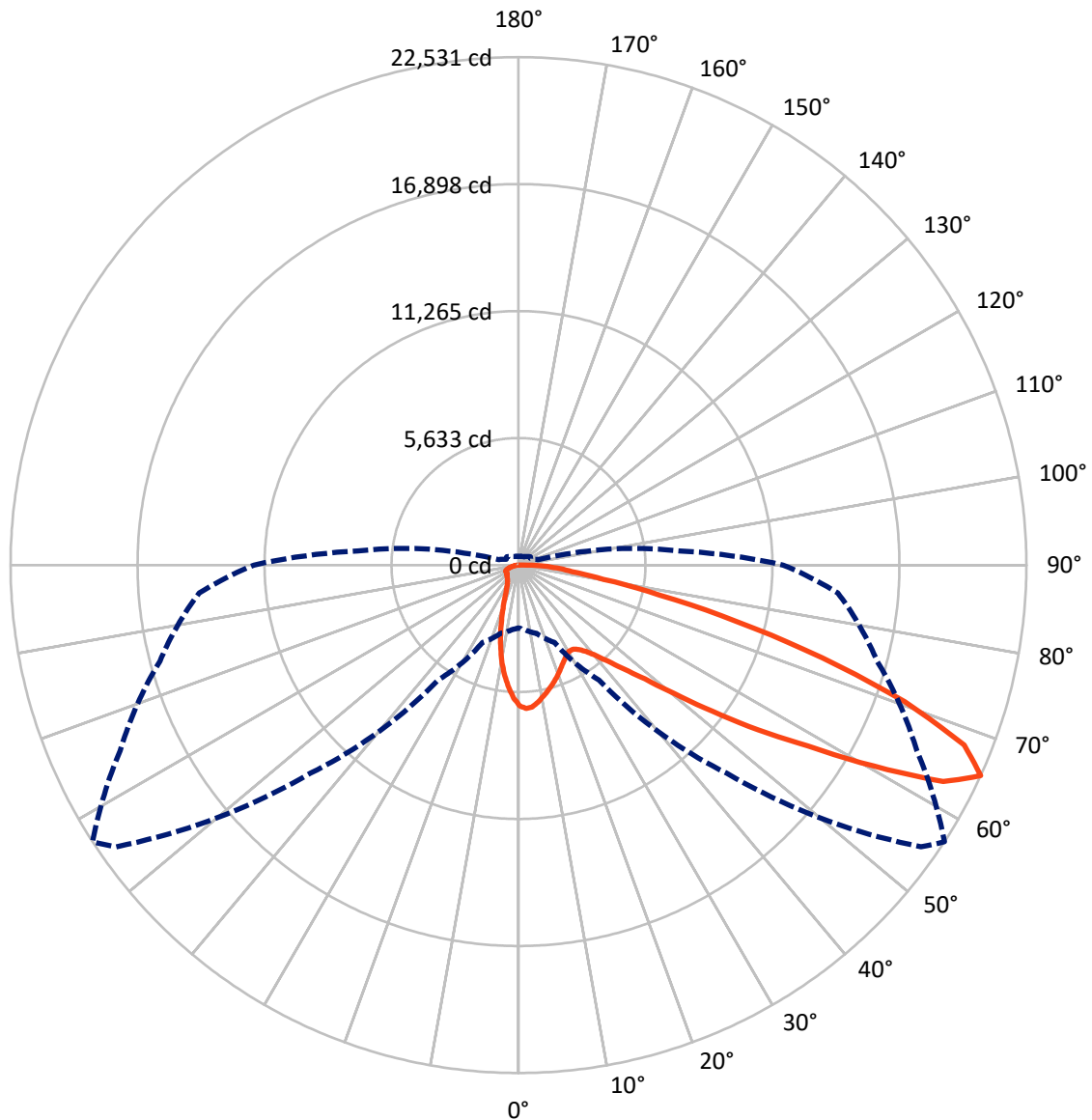
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3481.8 | 0.0 | 3481.8 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 19221.8 | 0.0 | 19221.8 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 22703.6 | 0.0 | 22703.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 522.8 | 2.3 |
| 10°-20° | 1125.2 | 5.0 |
| 20°-30° | 1454.8 | 6.4 |
| 30°-40° | 1957.6 | 8.6 |
| 40°-50° | 3121.5 | 13.7 |
| 50°-60° | 5513.4 | 24.3 |
| 60°-70° | 6065.5 | 26.7 |
| 70°-80° | 2537.3 | 11.2 |
| 80°-90° | 405.5 | 1.8 |
| 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° | 22703.6 | 100.0 |
| 0°-180° | 22703.6 | 100.0 |

Coefficient of Utilization

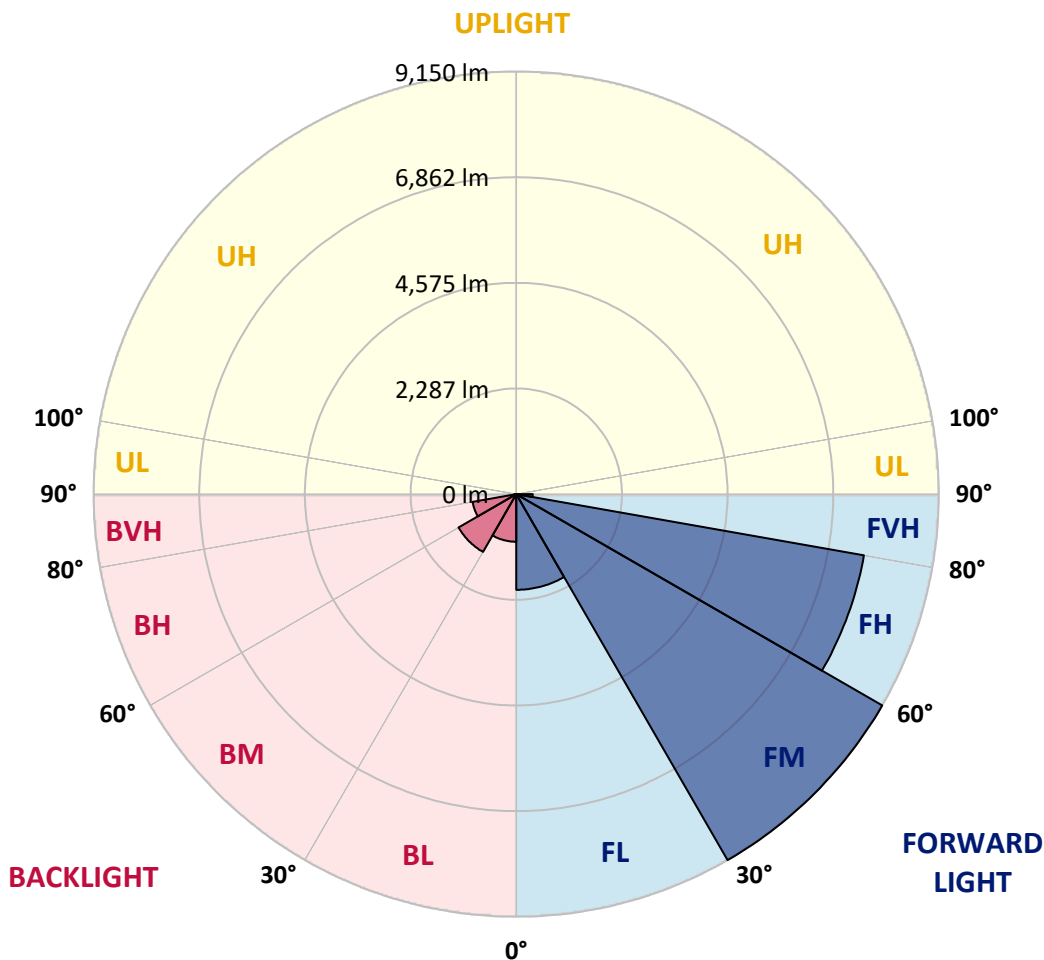


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2071.6 | 9.1 | | | |
| FM (30°-60°) | 9149.5 | 40.3 | | | |
| FH (60°-80°) | 7642.7 | 33.7 | | | G4/12000 |
| FVH (80°-90°) | 357.9 | 1.6 | | | G3/500 |
| BL (0°-30°) | 1031.1 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 1443.0 | 6.4 | B2/2500 | | |
| BH (60°-80°) | 960.0 | 4.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 47.6 | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6243.2 | 6243.2 | 6243.2 | 6243.2 | 6243.2 | 6243.2 | 6243.2 | 6243.2 | 6243.2 | 6243.2 | 6243.2 |
| 2.5° | 6411.8 | 6422.0 | 6422.0 | 6442.4 | 6373.4 | 6406.7 | 6401.5 | 6370.9 | 6381.1 | 6327.5 | 6273.8 |
| 5° | 6230.4 | 6222.7 | 6263.6 | 6268.7 | 6322.4 | 6337.7 | 6350.5 | 6330.0 | 6335.1 | 6217.6 | 6166.5 |
| 7.5° | 5765.5 | 5762.9 | 5831.9 | 5890.6 | 6003.0 | 6107.8 | 6176.7 | 6156.3 | 6184.4 | 6110.3 | 5990.3 |
| 10° | 5213.7 | 5272.5 | 5344.0 | 5402.7 | 5609.7 | 5742.5 | 5921.3 | 5939.2 | 6046.5 | 6028.6 | 5811.5 |
| 12.5° | 4799.9 | 4825.4 | 4879.1 | 5047.7 | 5236.7 | 5456.4 | 5711.8 | 5734.8 | 5839.6 | 5890.6 | 5701.6 |
| 15° | 4460.1 | 4483.1 | 4552.1 | 4677.3 | 4889.3 | 5149.8 | 5474.3 | 5533.0 | 5742.5 | 5760.4 | 5558.6 |
| 17.5° | 4212.3 | 4230.2 | 4276.2 | 4401.4 | 4575.1 | 4909.7 | 5216.3 | 5321.0 | 5596.9 | 5683.7 | 5410.4 |
| 20° | 4115.3 | 4077.0 | 4102.5 | 4181.7 | 4355.4 | 4613.4 | 5009.3 | 5101.3 | 5453.8 | 5625.0 | 5269.9 |
| 22.5° | 4071.9 | 4038.6 | 4054.0 | 4048.9 | 4186.8 | 4370.7 | 4787.1 | 4884.2 | 5318.4 | 5556.0 | 5144.7 |
| 25° | 4105.1 | 4105.1 | 4089.7 | 4077.0 | 4092.3 | 4212.3 | 4547.0 | 4697.7 | 5137.1 | 5497.3 | 5017.0 |
| 27.5° | 4283.9 | 4214.9 | 4222.6 | 4168.9 | 4153.6 | 4153.6 | 4439.7 | 4529.1 | 5078.3 | 5464.0 | 4912.3 |
| 30° | 4398.8 | 4432.0 | 4434.6 | 4355.4 | 4276.2 | 4133.2 | 4340.1 | 4426.9 | 5029.8 | 5504.9 | 4851.0 |
| 32.5° | 4692.6 | 4677.3 | 4633.8 | 4618.5 | 4501.0 | 4340.1 | 4388.6 | 4447.4 | 5001.7 | 5596.9 | 4868.9 |
| 35° | 4986.4 | 4978.7 | 4981.2 | 4973.6 | 4851.0 | 4613.4 | 4518.9 | 4598.1 | 5052.8 | 5757.8 | 4930.2 |
| 37.5° | 5290.3 | 5310.8 | 5397.6 | 5397.6 | 5267.4 | 5009.3 | 4884.2 | 4861.2 | 5239.3 | 6020.9 | 5075.8 |
| 40° | 5594.3 | 5645.4 | 5755.3 | 5929.0 | 5745.0 | 5504.9 | 5303.1 | 5267.4 | 5464.0 | 6373.4 | 5425.7 |
| 42.5° | 5885.5 | 5969.8 | 6187.0 | 6445.0 | 6383.7 | 6143.5 | 5875.3 | 5834.4 | 5926.4 | 6897.1 | 5913.6 |
| 45° | 6258.5 | 6330.0 | 6672.3 | 7068.3 | 7152.6 | 6940.5 | 6626.3 | 6593.1 | 6588.0 | 7663.5 | 6585.5 |
| 47.5° | 6825.6 | 6902.2 | 7244.5 | 7643.0 | 7903.6 | 7936.8 | 7584.3 | 7548.5 | 7425.9 | 8698.0 | 7568.9 |
| 50° | 7535.7 | 7660.9 | 7949.6 | 8414.5 | 8792.5 | 9147.6 | 9048.0 | 8943.3 | 8703.1 | 9901.2 | 8815.5 |
| 52.5° | 8054.3 | 8207.6 | 8598.4 | 9193.6 | 9860.3 | 10424.9 | 10782.5 | 10782.5 | 10230.7 | 11221.9 | 10315.0 |
| 55° | 8192.2 | 8284.2 | 8777.2 | 9638.1 | 10779.9 | 12207.9 | 12956.4 | 12900.2 | 12049.5 | 12611.5 | 12059.7 |
| 57.5° | 7643.0 | 7763.1 | 8360.8 | 9262.6 | 11262.7 | 13876.0 | 15114.9 | 15127.7 | 14036.9 | 14225.9 | 13781.5 |
| 60° | 6130.8 | 6169.1 | 6874.1 | 8079.8 | 10797.8 | 15219.6 | 18062.8 | 18111.3 | 16297.6 | 15664.1 | 14657.6 |
| 62.5° | 4237.9 | 4360.5 | 4891.8 | 5949.4 | 8945.8 | 15068.9 | 20905.9 | 21146.0 | 18108.8 | 16422.8 | 14795.6 |
| 65° | 2789.5 | 2863.6 | 3147.1 | 3790.9 | 6227.8 | 13061.1 | 21789.8 | 22530.6 | 19493.3 | 16466.2 | 14218.3 |
| 67.5° | 2023.2 | 2035.9 | 2120.2 | 2452.3 | 3742.3 | 9392.8 | 20280.1 | 21324.9 | 20011.8 | 16103.5 | 12864.4 |
| 70° | 1634.9 | 1645.1 | 1675.7 | 1887.8 | 2416.5 | 5877.9 | 16540.3 | 18177.7 | 18456.2 | 14384.3 | 10361.0 |
| 72.5° | 1328.3 | 1341.1 | 1379.4 | 1578.7 | 1992.5 | 3269.7 | 12095.5 | 14090.5 | 15012.7 | 10642.0 | 6886.9 |
| 75° | 1044.8 | 1055.0 | 1147.0 | 1343.7 | 1872.4 | 2245.4 | 8023.6 | 9977.8 | 10103.0 | 6220.2 | 3223.8 |
| 77.5° | 715.3 | 733.1 | 845.5 | 1139.3 | 1762.6 | 1964.4 | 5001.7 | 6391.3 | 5734.8 | 2434.4 | 1108.6 |
| 80° | 454.7 | 480.2 | 546.7 | 863.4 | 1558.2 | 1875.0 | 3111.4 | 3816.4 | 2511.1 | 832.8 | 533.9 |
| 82.5° | 268.2 | 293.8 | 360.2 | 559.4 | 1223.6 | 1739.6 | 2191.7 | 2388.4 | 1177.6 | 426.6 | 321.9 |
| 85° | 148.2 | 166.0 | 217.1 | 337.2 | 717.8 | 1545.5 | 1754.9 | 1714.1 | 674.4 | 227.3 | 201.8 |
| 87.5° | 48.5 | 56.2 | 79.2 | 135.4 | 296.3 | 728.0 | 1052.4 | 988.6 | 350.0 | 104.7 | 79.2 |
| 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° | 6243.2 | 6243.2 | 6243.2 | 6243.2 | 6243.2 | 6243.2 | 6243.2 | 6243.2 | 6243.2 | 6243.2 | 6243.2 |
| 2.5° | 6238.1 | 6230.4 | 6115.4 | 6028.6 | 5880.4 | 5757.8 | 5709.3 | 5642.9 | 5640.3 | 5591.8 | 5579.0 |
| 5° | 6087.3 | 6008.2 | 5831.9 | 5663.3 | 5400.2 | 5223.9 | 5063.0 | 4950.6 | 4904.6 | 4805.0 | 4782.0 |
| 7.5° | 5893.2 | 5788.5 | 5517.7 | 5200.9 | 4891.8 | 4616.0 | 4365.6 | 4115.3 | 3974.8 | 3926.2 | 3872.6 |
| 10° | 5691.4 | 5507.5 | 5106.4 | 4751.3 | 4319.6 | 3895.6 | 3502.2 | 3149.7 | 2958.1 | 2822.7 | 2764.0 |
| 12.5° | 5530.5 | 5285.2 | 4774.3 | 4243.0 | 3673.4 | 3106.3 | 2649.0 | 2278.6 | 2061.5 | 1959.3 | 1913.3 |
| 15° | 5349.1 | 5024.7 | 4411.6 | 3739.8 | 3029.6 | 2385.9 | 1938.9 | 1647.6 | 1560.8 | 1512.3 | 1504.6 |
| 17.5° | 5157.5 | 4782.0 | 4018.2 | 3244.2 | 2401.2 | 1795.8 | 1507.1 | 1389.6 | 1351.3 | 1330.9 | 1320.7 |
| 20° | 4978.7 | 4564.9 | 3614.6 | 2692.4 | 1880.1 | 1440.7 | 1305.3 | 1244.0 | 1241.5 | 1251.7 | 1249.1 |
| 22.5° | 4725.8 | 4281.3 | 3216.1 | 2181.5 | 1502.0 | 1254.3 | 1167.4 | 1152.1 | 1167.4 | 1180.2 | 1185.3 |
| 25° | 4582.7 | 4048.9 | 2771.6 | 1731.9 | 1241.5 | 1113.8 | 1085.7 | 1080.5 | 1103.5 | 1118.9 | 1116.3 |
| 27.5° | 4434.6 | 3808.7 | 2357.8 | 1387.1 | 1088.2 | 1014.1 | 1009.0 | 1014.1 | 1037.1 | 1060.1 | 1057.6 |
| 30° | 4319.6 | 3617.2 | 1969.5 | 1159.7 | 970.7 | 942.6 | 937.5 | 942.6 | 955.4 | 957.9 | 957.9 |
| 32.5° | 4225.1 | 3389.8 | 1640.0 | 1006.5 | 899.2 | 876.2 | 881.3 | 878.7 | 881.3 | 883.9 | 886.4 |
| 35° | 4168.9 | 3254.4 | 1369.2 | 912.0 | 840.4 | 822.5 | 820.0 | 812.3 | 814.9 | 817.4 | 814.9 |
| 37.5° | 4289.0 | 3188.0 | 1154.6 | 845.5 | 799.6 | 784.2 | 779.1 | 774.0 | 766.3 | 766.3 | 766.3 |
| 40° | 4470.4 | 3152.2 | 1024.3 | 802.1 | 768.9 | 751.0 | 735.7 | 730.6 | 730.6 | 733.1 | 735.7 |
| 42.5° | 4830.5 | 3211.0 | 934.9 | 768.9 | 730.6 | 710.1 | 694.8 | 697.4 | 705.0 | 712.7 | 707.6 |
| 45° | 5351.6 | 3389.8 | 894.1 | 743.4 | 707.6 | 679.5 | 669.3 | 666.7 | 674.4 | 687.2 | 697.4 |
| 47.5° | 6033.7 | 3668.2 | 878.7 | 720.4 | 692.3 | 653.9 | 641.2 | 648.8 | 659.1 | 676.9 | 669.3 |
| 50° | 7150.0 | 4294.1 | 891.5 | 699.9 | 669.3 | 641.2 | 625.8 | 618.2 | 625.8 | 638.6 | 643.7 |
| 52.5° | 8608.6 | 5430.8 | 940.1 | 689.7 | 653.9 | 631.0 | 605.4 | 592.6 | 600.3 | 610.5 | 610.5 |
| 55° | 10353.3 | 6984.0 | 1075.4 | 676.9 | 628.4 | 615.6 | 587.5 | 562.0 | 567.1 | 567.1 | 564.5 |
| 57.5° | 11891.1 | 8156.5 | 1236.4 | 659.1 | 613.1 | 595.2 | 559.4 | 528.8 | 523.7 | 526.2 | 528.8 |
| 60° | 12580.8 | 8468.1 | 1313.0 | 653.9 | 613.1 | 569.7 | 521.1 | 490.5 | 482.8 | 477.7 | 477.7 |
| 62.5° | 12460.8 | 7929.1 | 1157.2 | 631.0 | 628.4 | 549.2 | 485.4 | 452.1 | 441.9 | 431.7 | 434.3 |
| 65° | 11735.3 | 7160.2 | 912.0 | 600.3 | 631.0 | 536.4 | 449.6 | 416.4 | 398.5 | 385.7 | 383.2 |
| 67.5° | 10409.5 | 6112.9 | 722.9 | 577.3 | 605.4 | 513.5 | 418.9 | 380.6 | 365.3 | 352.5 | 347.4 |
| 70° | 8143.7 | 4792.2 | 628.4 | 546.7 | 544.1 | 457.3 | 383.2 | 350.0 | 327.0 | 311.6 | 311.6 |
| 72.5° | 5280.1 | 3029.6 | 539.0 | 485.4 | 470.0 | 383.2 | 332.1 | 311.6 | 293.8 | 281.0 | 281.0 |
| 75° | 2391.0 | 1407.5 | 434.3 | 406.2 | 383.2 | 306.5 | 281.0 | 270.8 | 255.4 | 242.7 | 242.7 |
| 77.5° | 858.3 | 600.3 | 324.4 | 319.3 | 286.1 | 237.6 | 227.3 | 219.7 | 209.5 | 196.7 | 196.7 |
| 80° | 480.2 | 380.6 | 242.7 | 232.5 | 199.2 | 176.3 | 163.5 | 163.5 | 158.4 | 150.7 | 148.2 |
| 82.5° | 304.0 | 247.8 | 178.8 | 155.8 | 130.3 | 117.5 | 112.4 | 109.8 | 107.3 | 97.1 | 94.5 |
| 85° | 191.6 | 168.6 | 117.5 | 92.0 | 76.6 | 58.8 | 56.2 | 53.6 | 48.5 | 43.4 | 43.4 |
| 87.5° | 86.9 | 97.1 | 46.0 | 28.1 | 20.4 | 12.8 | 7.7 | 2.6 | 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)