

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: P400383

Luminaire Tested: **ARCH-L-PA3-270-760-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-270-760-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35185 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

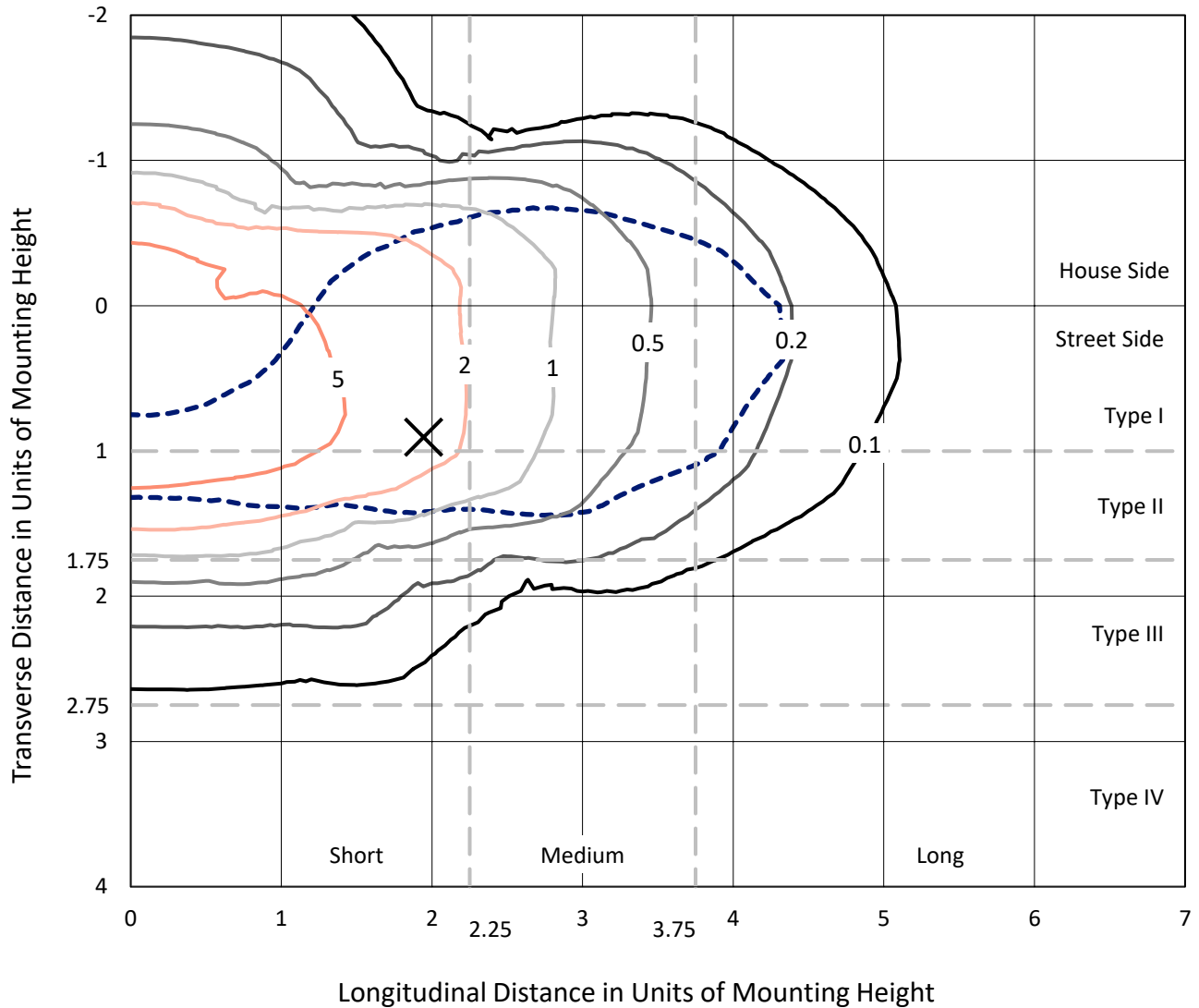
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

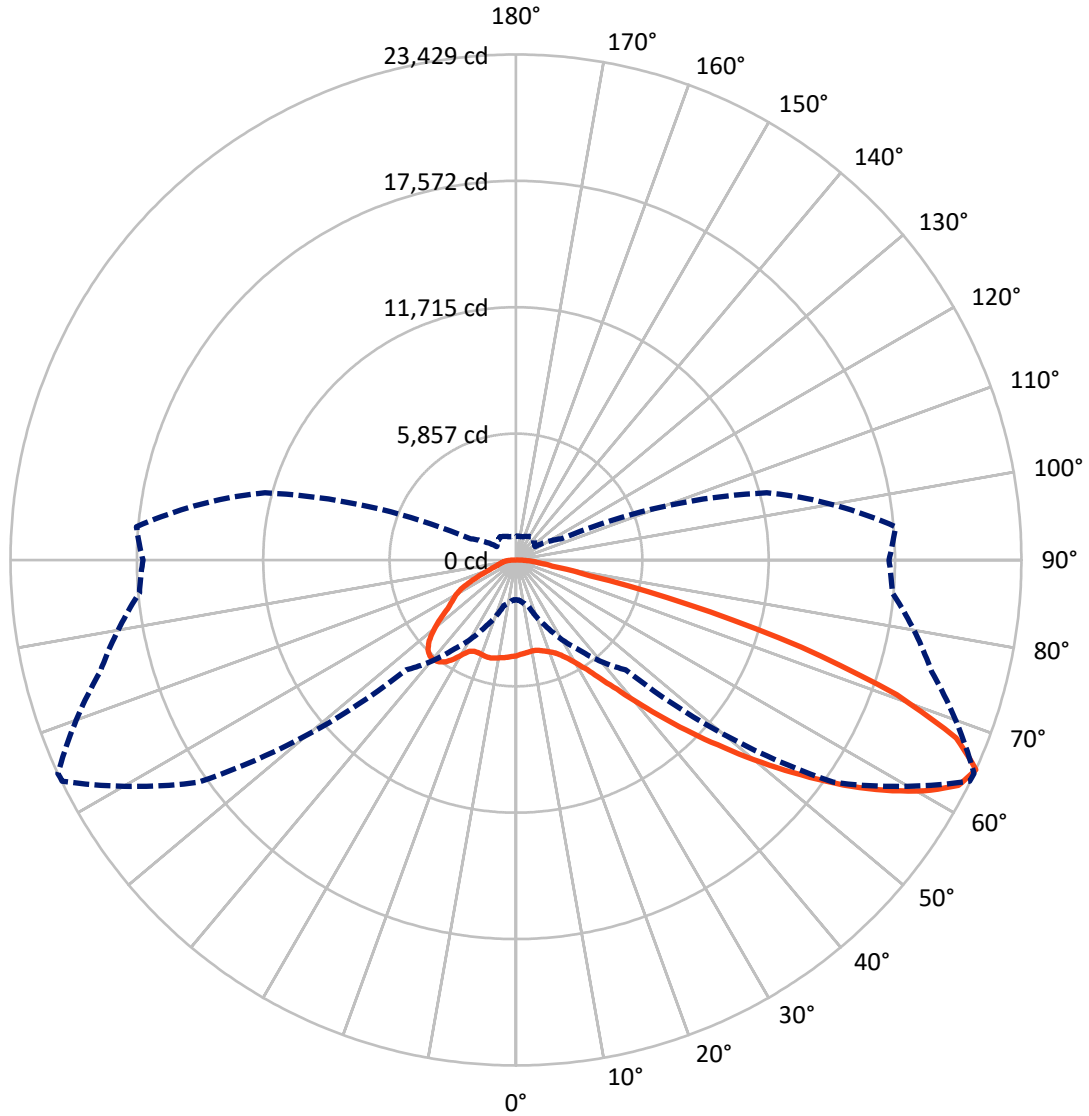
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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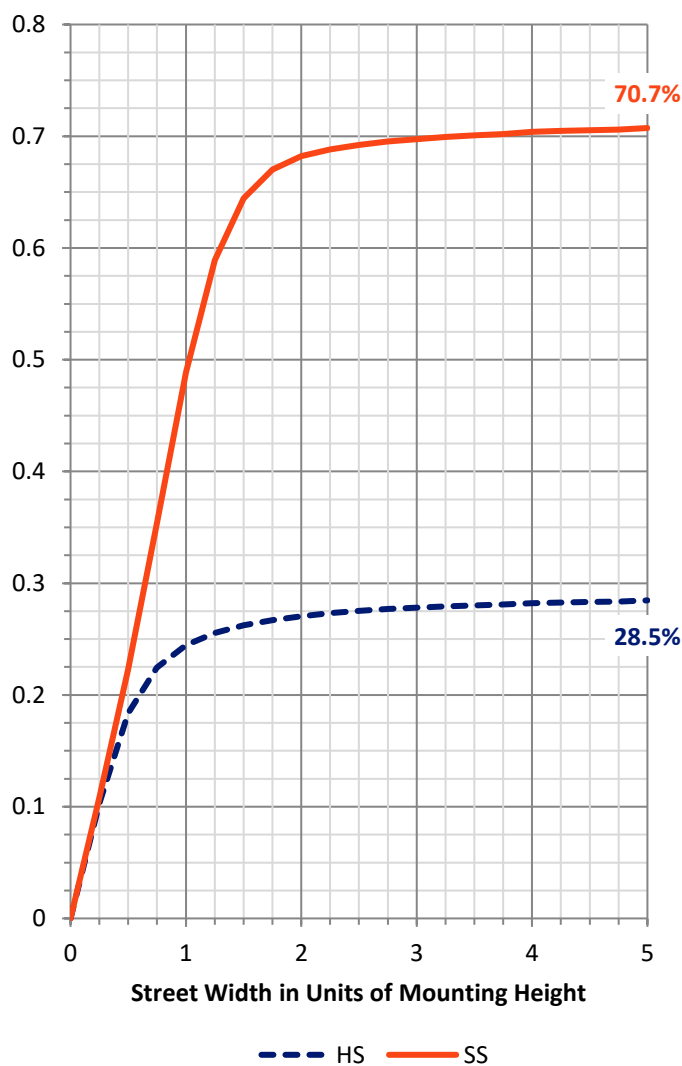
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10172.5 | 0.0 | 10172.5 |
| | % Fixture | 28.9 | 0.0 | 28.9 |
| Street Side | Lumens | 25012.5 | 0.0 | 25012.5 |
| | % Fixture | 71.1 | 0.0 | 71.1 |
| Total | Lumens | 35185.0 | 0.0 | 35185.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 423.6 | 1.2 |
| 10°-20° | 1264.6 | 3.6 |
| 20°-30° | 2246.3 | 6.4 |
| 30°-40° | 3800.2 | 10.8 |
| 40°-50° | 6615.5 | 18.8 |
| 50°-60° | 8549.3 | 24.3 |
| 60°-70° | 7481.1 | 21.3 |
| 70°-80° | 4069.2 | 11.6 |
| 80°-90° | 735.2 | 2.1 |
| 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° | 35185.0 | 100.0 |
| 0°-180° | 35185.0 | 100.0 |

Coefficient of Utilization

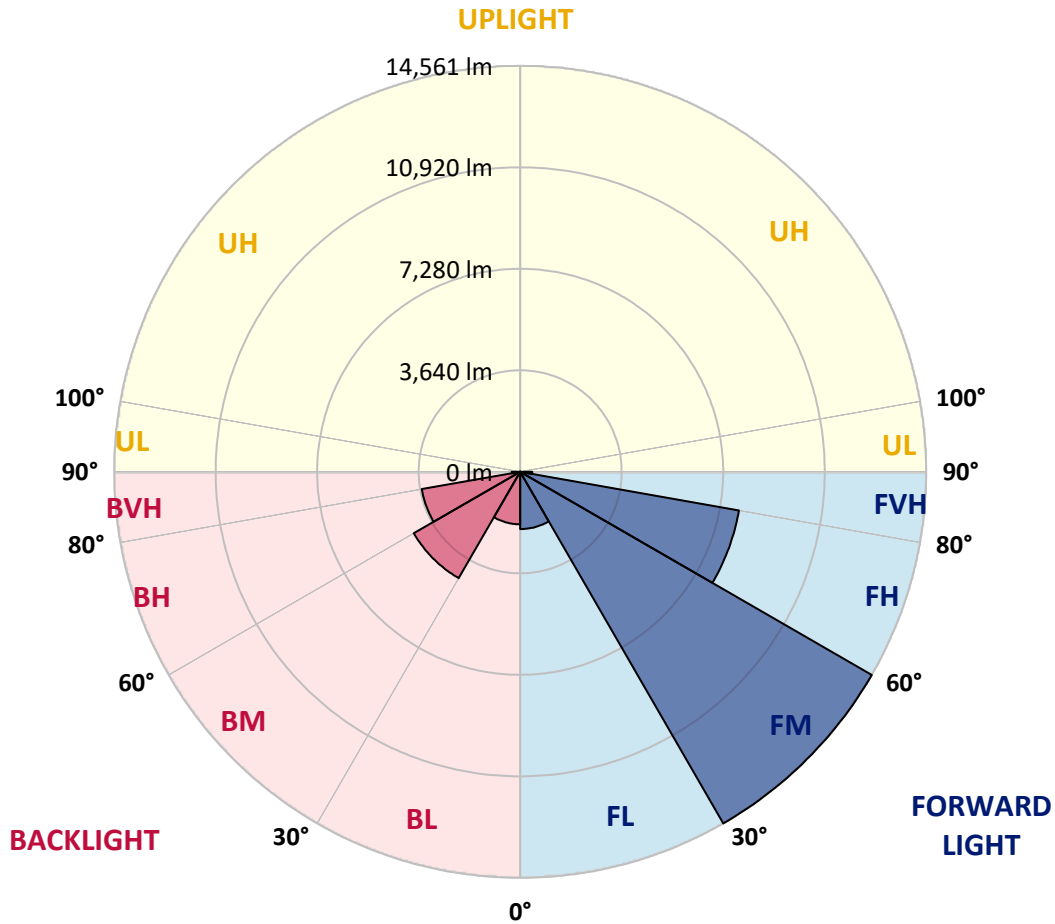


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2052.9 | 5.8 | | | |
| FM (30°-60°) | 14560.5 | 41.4 | | | |
| FH (60°-80°) | 7966.4 | 22.6 | | | G4/12000 |
| FVH (80°-90°) | 432.6 | 1.2 | | | G3/500 |
| BL (0°-30°) | 1881.6 | 5.3 | B3/2500 | | |
| BM (30°-60°) | 4404.5 | 12.5 | B3/5000 | | |
| BH (60°-80°) | 3583.9 | 10.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 302.6 | 0.9 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4446.0 | 4446.0 | 4446.0 | 4446.0 | 4446.0 | 4446.0 | 4446.0 | 4446.0 | 4446.0 | 4446.0 | 4446.0 |
| 2.5° | 4367.2 | 4362.6 | 4353.3 | 4362.6 | 4367.2 | 4376.5 | 4371.9 | 4381.1 | 4376.5 | 4390.4 | 4413.5 |
| 5° | 4256.1 | 4246.8 | 4242.2 | 4265.3 | 4279.2 | 4302.4 | 4311.7 | 4344.1 | 4339.4 | 4362.6 | 4399.7 |
| 7.5° | 4131.0 | 4131.0 | 4126.4 | 4154.2 | 4172.7 | 4214.4 | 4246.8 | 4302.4 | 4307.0 | 4348.7 | 4390.4 |
| 10° | 4033.8 | 4038.4 | 4033.8 | 4056.9 | 4084.7 | 4135.7 | 4191.2 | 4270.0 | 4274.6 | 4334.8 | 4376.5 |
| 12.5° | 3996.7 | 3996.7 | 3996.7 | 4029.2 | 4066.2 | 4135.7 | 4200.5 | 4283.9 | 4293.1 | 4358.0 | 4395.0 |
| 15° | 4047.7 | 4052.3 | 4043.0 | 4075.5 | 4117.1 | 4200.5 | 4260.7 | 4348.7 | 4358.0 | 4418.2 | 4441.3 |
| 17.5° | 4228.3 | 4246.8 | 4223.7 | 4242.2 | 4232.9 | 4297.8 | 4353.3 | 4441.3 | 4446.0 | 4496.9 | 4506.2 |
| 20° | 4584.9 | 4603.4 | 4566.4 | 4543.2 | 4459.9 | 4455.2 | 4478.4 | 4547.9 | 4547.9 | 4580.3 | 4557.1 |
| 22.5° | 5136.0 | 5154.5 | 5089.7 | 5001.7 | 4802.6 | 4705.3 | 4654.4 | 4686.8 | 4682.2 | 4696.0 | 4635.8 |
| 25° | 5867.7 | 5863.1 | 5784.4 | 5622.3 | 5302.7 | 5066.5 | 4941.5 | 4890.6 | 4890.6 | 4862.8 | 4788.7 |
| 27.5° | 6775.5 | 6706.0 | 6567.1 | 6372.5 | 5928.0 | 5599.1 | 5330.5 | 5200.9 | 5177.7 | 5094.3 | 4955.4 |
| 30° | 7743.4 | 7692.4 | 7493.3 | 7210.8 | 6696.7 | 6275.3 | 5830.7 | 5571.3 | 5557.5 | 5376.8 | 5168.4 |
| 32.5° | 8882.7 | 8799.3 | 8577.0 | 8238.9 | 7623.0 | 7030.2 | 6474.4 | 6080.8 | 6057.6 | 5770.5 | 5483.4 |
| 35° | 10346.1 | 10276.7 | 9846.0 | 9507.9 | 8715.9 | 7937.9 | 7280.3 | 6756.9 | 6738.4 | 6386.4 | 6020.6 |
| 37.5° | 12101.4 | 11920.7 | 11503.9 | 10869.5 | 10035.8 | 9114.2 | 8280.6 | 7623.0 | 7599.8 | 7210.8 | 6747.7 |
| 40° | 13666.7 | 13504.6 | 13134.1 | 12550.6 | 11656.8 | 10633.3 | 9503.2 | 8706.7 | 8683.5 | 8211.1 | 7627.6 |
| 42.5° | 14824.5 | 14713.4 | 14472.5 | 14134.5 | 13495.4 | 12874.8 | 11064.0 | 10017.3 | 9975.6 | 9364.3 | 8637.2 |
| 45° | 15496.0 | 15408.0 | 15269.1 | 15352.5 | 15343.2 | 15227.4 | 12925.7 | 11578.0 | 11443.7 | 10651.8 | 9762.6 |
| 47.5° | 15333.9 | 15255.2 | 15310.8 | 15959.2 | 16853.0 | 17524.5 | 15093.1 | 13175.8 | 12995.2 | 11962.4 | 10962.1 |
| 50° | 14162.2 | 14194.7 | 14486.4 | 15727.6 | 17732.9 | 19224.2 | 17496.7 | 14995.9 | 14755.0 | 13282.3 | 12101.4 |
| 52.5° | 12027.3 | 12106.0 | 12814.6 | 14551.3 | 17635.7 | 20326.4 | 19668.8 | 16876.1 | 16556.6 | 14569.8 | 13138.7 |
| 55° | 9554.2 | 9753.3 | 10670.3 | 12495.0 | 16366.7 | 20405.1 | 21308.2 | 18765.7 | 18413.7 | 15778.5 | 14041.8 |
| 57.5° | 7067.2 | 7363.6 | 8424.2 | 10100.7 | 13935.3 | 19159.3 | 22127.9 | 20571.8 | 20145.8 | 16978.0 | 14995.9 |
| 60° | 4483.0 | 4663.6 | 5886.3 | 7863.8 | 10665.7 | 16112.0 | 22021.4 | 22109.4 | 21738.9 | 18172.9 | 15991.6 |
| 62.5° | 2862.1 | 2950.1 | 3566.0 | 5608.4 | 7456.3 | 11930.0 | 20859.0 | 23271.8 | 23021.8 | 19261.2 | 16936.3 |
| 65° | 1838.6 | 1875.6 | 2190.6 | 3450.3 | 5075.8 | 7201.5 | 17964.5 | 23396.9 | 23429.3 | 19942.0 | 17519.9 |
| 67.5° | 1495.9 | 1514.4 | 1630.2 | 2130.4 | 3589.2 | 3978.2 | 12513.5 | 21618.5 | 22012.2 | 19766.0 | 17320.7 |
| 70° | 1361.6 | 1384.7 | 1505.1 | 1699.7 | 2778.7 | 2746.3 | 6057.6 | 18089.5 | 18733.3 | 18751.8 | 16436.2 |
| 72.5° | 1148.5 | 1181.0 | 1343.1 | 1607.0 | 2148.9 | 2167.4 | 2565.7 | 12884.0 | 13833.4 | 16760.4 | 15107.0 |
| 75° | 958.7 | 977.2 | 1116.1 | 1417.2 | 1820.1 | 1732.1 | 1801.5 | 6831.0 | 8201.9 | 13439.8 | 13694.5 |
| 77.5° | 778.0 | 796.6 | 898.5 | 1130.0 | 1616.3 | 1347.7 | 1417.2 | 2829.7 | 3496.6 | 9123.5 | 11193.6 |
| 80° | 555.7 | 574.3 | 690.1 | 879.9 | 1222.6 | 1213.4 | 1051.3 | 1560.7 | 1695.0 | 4932.2 | 7271.0 |
| 82.5° | 398.3 | 412.2 | 523.3 | 629.8 | 847.5 | 1218.0 | 791.9 | 1060.5 | 1111.5 | 2185.9 | 2931.6 |
| 85° | 268.6 | 268.6 | 361.2 | 416.8 | 546.5 | 768.8 | 639.1 | 717.8 | 750.3 | 1037.4 | 791.9 |
| 87.5° | 115.8 | 115.8 | 194.5 | 213.0 | 287.1 | 356.6 | 477.0 | 361.2 | 370.5 | 560.4 | 324.2 |
| 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° | 4446.0 | 4446.0 | 4446.0 | 4446.0 | 4446.0 | 4446.0 | 4446.0 | 4446.0 | 4446.0 | 4446.0 | 4446.0 |
| 2.5° | 4427.4 | 4432.1 | 4441.3 | 4469.1 | 4487.6 | 4515.4 | 4529.3 | 4547.9 | 4547.9 | 4538.6 | 4543.2 |
| 5° | 4418.2 | 4432.1 | 4464.5 | 4515.4 | 4547.9 | 4598.8 | 4635.8 | 4663.6 | 4672.9 | 4663.6 | 4668.3 |
| 7.5° | 4413.5 | 4436.7 | 4492.3 | 4566.4 | 4612.7 | 4677.5 | 4728.5 | 4760.9 | 4784.0 | 4774.8 | 4779.4 |
| 10° | 4399.7 | 4436.7 | 4506.2 | 4598.8 | 4668.3 | 4733.1 | 4779.4 | 4793.3 | 4807.2 | 4797.9 | 4793.3 |
| 12.5° | 4418.2 | 4459.9 | 4534.0 | 4645.1 | 4723.8 | 4774.8 | 4788.7 | 4765.5 | 4733.1 | 4714.6 | 4709.9 |
| 15° | 4455.2 | 4496.9 | 4571.0 | 4686.8 | 4756.3 | 4774.8 | 4742.4 | 4668.3 | 4594.2 | 4552.5 | 4547.9 |
| 17.5° | 4506.2 | 4534.0 | 4594.2 | 4696.0 | 4751.6 | 4728.5 | 4663.6 | 4575.6 | 4520.1 | 4487.6 | 4492.3 |
| 20° | 4538.6 | 4538.6 | 4584.9 | 4663.6 | 4709.9 | 4691.4 | 4612.7 | 4515.4 | 4427.4 | 4385.8 | 4371.9 |
| 22.5° | 4584.9 | 4561.7 | 4566.4 | 4635.8 | 4700.7 | 4672.9 | 4506.2 | 4334.8 | 4209.8 | 4163.5 | 4158.8 |
| 25° | 4709.9 | 4645.1 | 4603.4 | 4645.1 | 4797.9 | 4571.0 | 4237.6 | 4038.4 | 3922.6 | 3881.0 | 3885.6 |
| 27.5° | 4862.8 | 4774.8 | 4686.8 | 4756.3 | 4876.7 | 4339.4 | 3894.8 | 3667.9 | 3598.5 | 3566.0 | 3579.9 |
| 30° | 5015.6 | 4899.8 | 4784.0 | 5034.1 | 4821.1 | 3978.2 | 3454.9 | 3232.6 | 3172.4 | 3149.2 | 3167.7 |
| 32.5° | 5298.1 | 5108.2 | 4969.3 | 5404.6 | 4649.7 | 3566.0 | 2977.9 | 2774.1 | 2718.5 | 2690.7 | 2681.5 |
| 35° | 5770.5 | 5529.7 | 5390.7 | 5728.8 | 4408.9 | 3107.5 | 2542.5 | 2399.0 | 2338.8 | 2278.6 | 2269.3 |
| 37.5° | 6451.3 | 6159.5 | 6034.5 | 5914.1 | 4070.8 | 2653.7 | 2209.1 | 2111.8 | 2023.8 | 1931.2 | 1926.6 |
| 40° | 7266.4 | 6886.6 | 6794.0 | 5997.4 | 3603.1 | 2227.6 | 1977.5 | 1884.9 | 1773.8 | 1685.8 | 1690.4 |
| 42.5° | 8206.5 | 7720.2 | 7521.1 | 5974.3 | 3024.2 | 2000.7 | 1810.8 | 1708.9 | 1611.7 | 1532.9 | 1528.3 |
| 45° | 9211.5 | 8660.4 | 8201.9 | 5812.2 | 2449.9 | 1843.2 | 1708.9 | 1588.5 | 1491.3 | 1403.3 | 1394.0 |
| 47.5° | 10323.0 | 9707.0 | 8831.7 | 5497.2 | 2023.8 | 1732.1 | 1648.7 | 1477.4 | 1389.4 | 1333.8 | 1333.8 |
| 50° | 11443.7 | 10707.4 | 9410.6 | 5020.2 | 1773.8 | 1648.7 | 1560.7 | 1417.2 | 1347.7 | 1301.4 | 1301.4 |
| 52.5° | 12402.4 | 11749.4 | 9887.6 | 4450.6 | 1616.3 | 1579.2 | 1500.5 | 1389.4 | 1315.3 | 1273.6 | 1269.0 |
| 55° | 13333.3 | 12717.3 | 10313.7 | 3885.6 | 1486.6 | 1486.6 | 1486.6 | 1366.2 | 1282.8 | 1245.8 | 1241.2 |
| 57.5° | 14259.5 | 13736.2 | 10758.3 | 3515.1 | 1370.8 | 1407.9 | 1458.8 | 1338.4 | 1255.1 | 1222.6 | 1218.0 |
| 60° | 15306.2 | 14958.8 | 11272.4 | 3255.7 | 1269.0 | 1324.5 | 1421.8 | 1306.0 | 1208.7 | 1181.0 | 1176.3 |
| 62.5° | 16417.6 | 16417.6 | 11740.1 | 2889.9 | 1176.3 | 1255.1 | 1366.2 | 1264.3 | 1167.1 | 1143.9 | 1139.3 |
| 65° | 17288.3 | 17663.4 | 12041.2 | 2343.4 | 1083.7 | 1185.6 | 1301.4 | 1208.7 | 1111.5 | 1106.9 | 1097.6 |
| 67.5° | 17390.2 | 17978.4 | 11851.3 | 1769.1 | 1000.3 | 1111.5 | 1236.5 | 1148.5 | 1055.9 | 1055.9 | 1042.0 |
| 70° | 16658.5 | 17255.9 | 11258.5 | 1324.5 | 940.1 | 1037.4 | 1153.2 | 1074.4 | 986.4 | 995.7 | 972.6 |
| 72.5° | 15435.8 | 15584.0 | 9785.8 | 1046.7 | 870.7 | 958.7 | 1051.3 | 991.1 | 912.3 | 912.3 | 879.9 |
| 75° | 13824.2 | 12999.8 | 7108.9 | 875.3 | 787.3 | 866.0 | 949.4 | 898.5 | 829.0 | 805.8 | 787.3 |
| 77.5° | 11003.8 | 9419.9 | 4131.0 | 754.9 | 717.8 | 778.0 | 833.6 | 796.6 | 736.4 | 685.4 | 685.4 |
| 80° | 6706.0 | 5520.4 | 1824.7 | 653.0 | 634.5 | 680.8 | 717.8 | 676.2 | 625.2 | 574.3 | 560.4 |
| 82.5° | 2551.8 | 2130.4 | 884.6 | 560.4 | 555.7 | 583.5 | 611.3 | 569.6 | 532.6 | 509.4 | 440.0 |
| 85° | 699.3 | 643.7 | 606.7 | 467.8 | 458.5 | 453.9 | 486.3 | 467.8 | 416.8 | 342.7 | 305.7 |
| 87.5° | 264.0 | 301.0 | 328.8 | 287.1 | 305.7 | 282.5 | 324.2 | 296.4 | 264.0 | 171.4 | 152.8 |
| 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)