

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: P480188

Luminaire Tested: **IFLD-S-SA3E-760-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480188
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-760-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

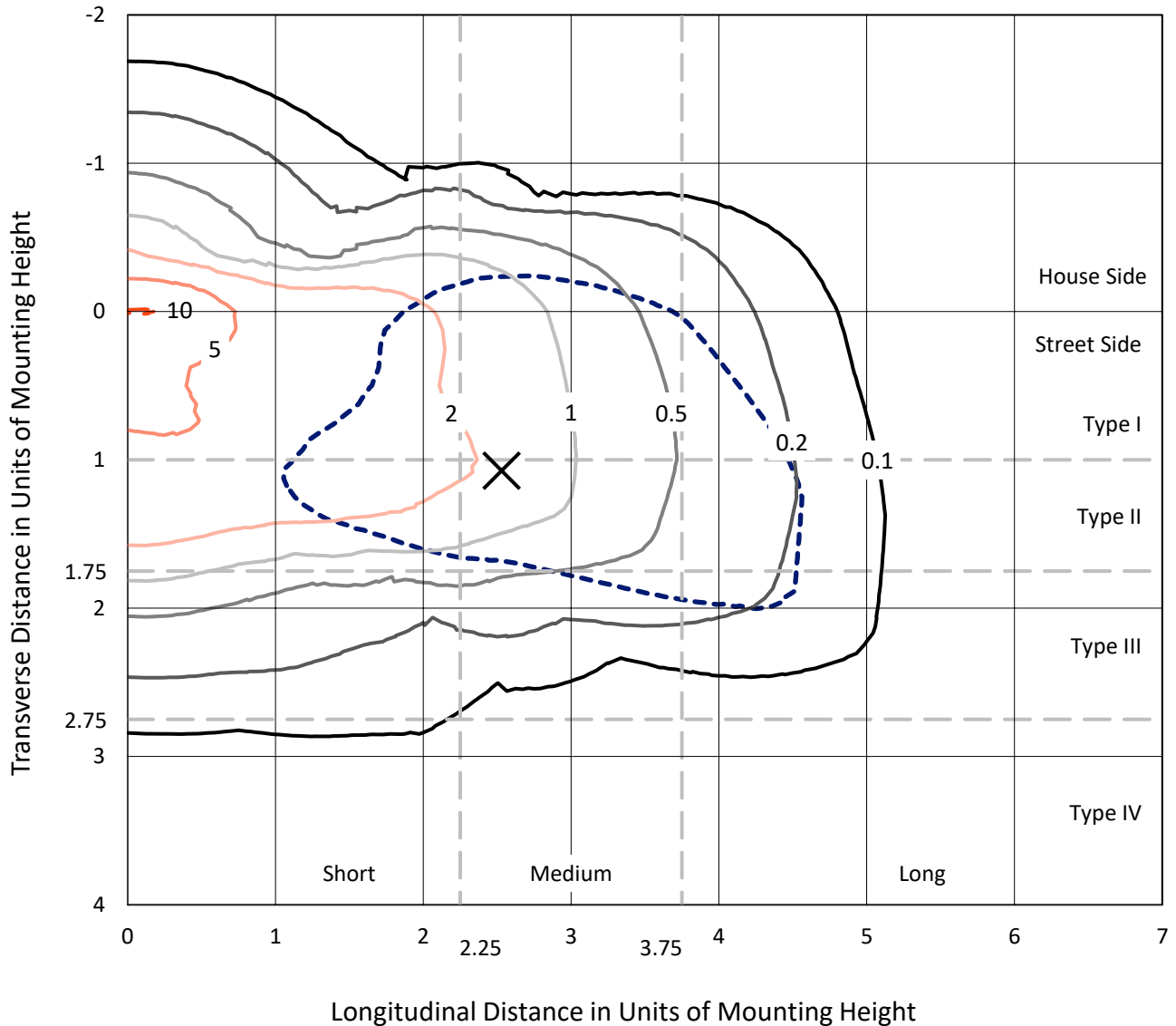
Lumens per Lamp: N/A
Luminaire Lumens: 27509.9 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1
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

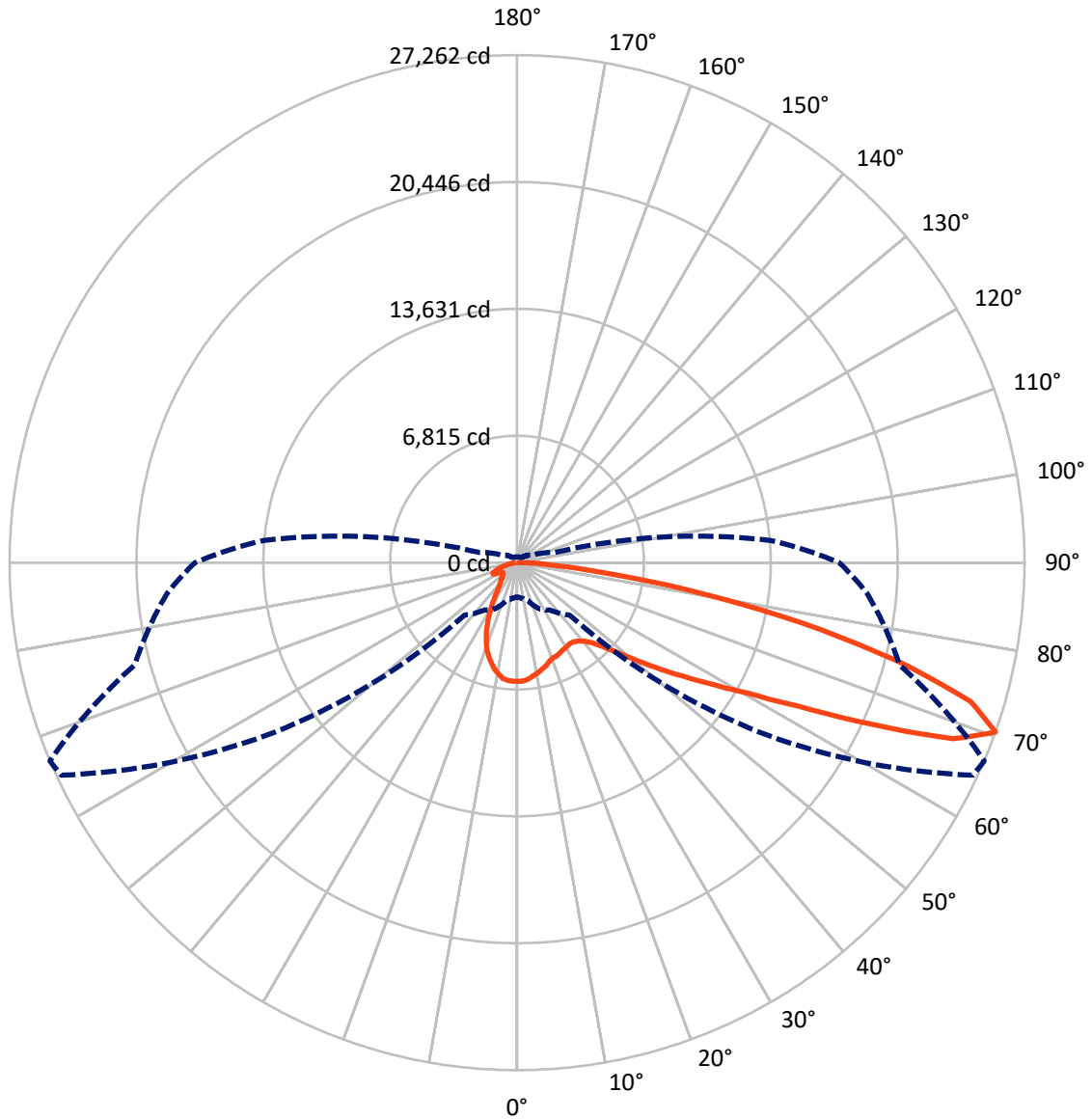
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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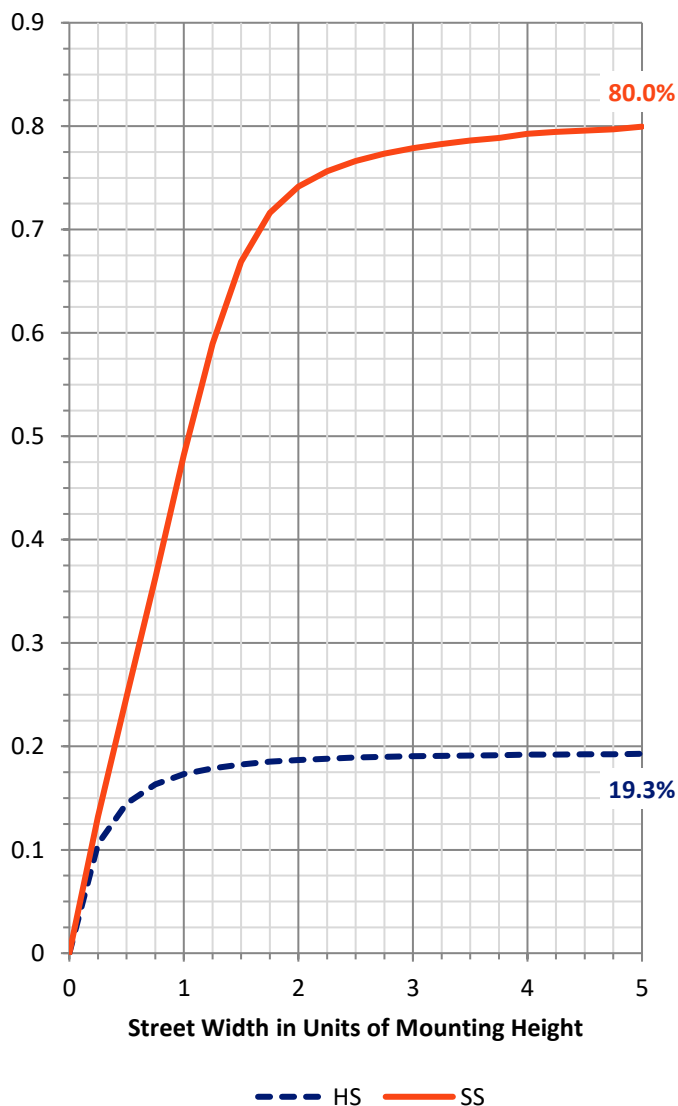
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5357.8 | 0.0 | 5357.8 |
| | % Fixture | 19.5 | 0.0 | 19.5 |
| Street Side | Lumens | 22152.0 | 0.0 | 22152.0 |
| | % Fixture | 80.5 | 0.0 | 80.5 |
| Total | Lumens | 27509.9 | 0.0 | 27509.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 555.7 | 2.0 |
| 10°-20° | 1330.8 | 4.8 |
| 20°-30° | 1797.1 | 6.5 |
| 30°-40° | 2404.7 | 8.7 |
| 40°-50° | 3536.1 | 12.9 |
| 50°-60° | 5511.9 | 20.0 |
| 60°-70° | 6789.7 | 24.7 |
| 70°-80° | 4797.5 | 17.4 |
| 80°-90° | 786.3 | 2.9 |
| 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° | 27509.9 | 100.0 |
| 0°-180° | 27509.9 | 100.0 |

Coefficient of Utilization

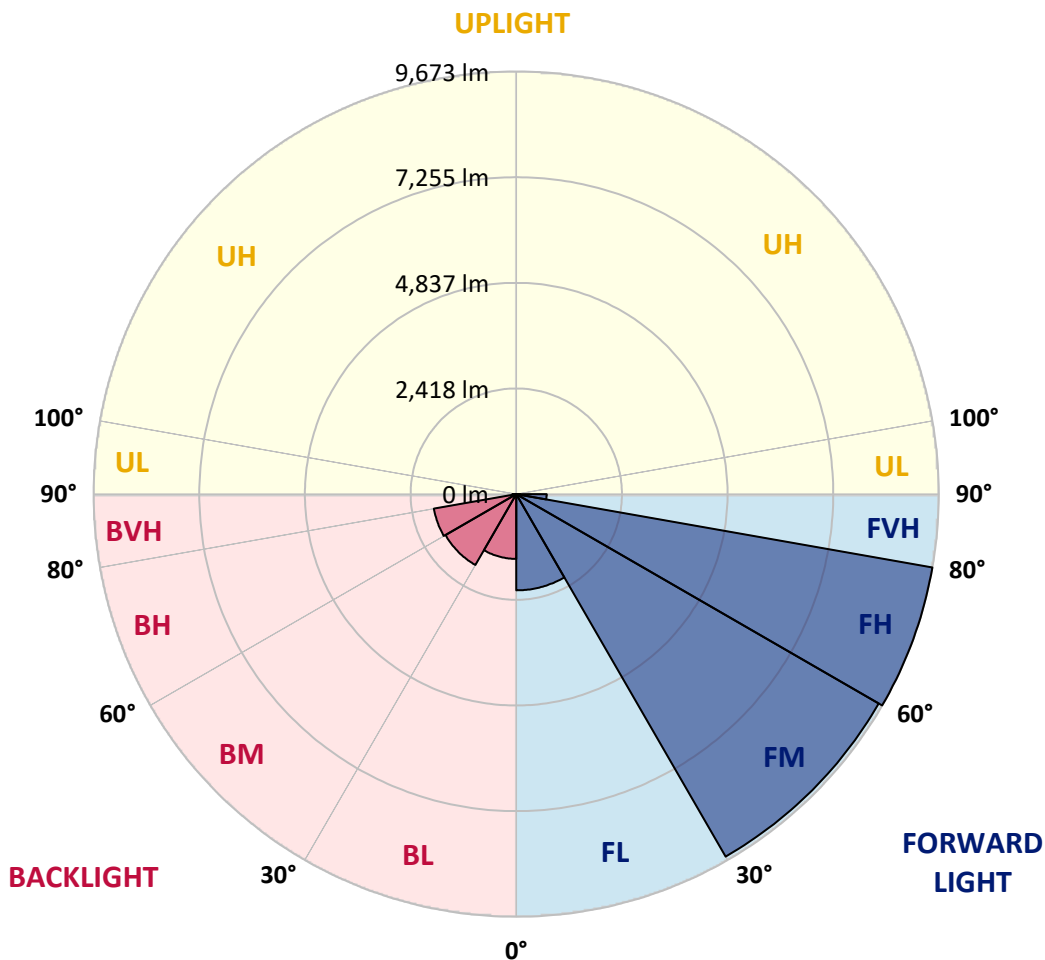


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2202.0 | 8.0 | | | |
| FM (30°-60°) | 9581.1 | 34.8 | | | |
| FH (60°-80°) | 9673.4 | 35.2 | | | G4/12000 |
| FVH (80°-90°) | 695.6 | 2.5 | | | G4/750 |
| BL (0°-30°) | 1481.6 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 1871.6 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 1913.9 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 90.7 | 0.3 | | | 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° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6368.4 | 6368.4 | 6368.4 | 6368.4 | 6368.4 | 6368.4 | 6368.4 | 6368.4 | 6368.4 | 6368.4 | 6368.4 |
| 2.5° | 5929.9 | 5996.9 | 6021.2 | 6057.8 | 6152.2 | 6222.3 | 6264.9 | 6313.6 | 6371.5 | 6420.2 | 6450.7 |
| 5° | 5515.7 | 5552.2 | 5610.1 | 5649.7 | 5768.5 | 5957.3 | 6085.2 | 6292.3 | 6286.2 | 6362.4 | 6478.1 |
| 7.5° | 5113.6 | 5150.2 | 5177.6 | 5256.8 | 5427.3 | 5597.9 | 5832.4 | 6167.4 | 6143.1 | 6319.7 | 6499.4 |
| 10° | 4863.9 | 4836.5 | 4845.6 | 4979.6 | 5113.6 | 5305.5 | 5600.9 | 5942.1 | 6030.4 | 6304.5 | 6560.3 |
| 12.5° | 4629.4 | 4598.9 | 4672.0 | 4757.3 | 4921.8 | 5095.4 | 5448.7 | 5756.3 | 5890.3 | 6249.7 | 6587.7 |
| 15° | 4483.2 | 4461.9 | 4553.2 | 4589.8 | 4784.7 | 4991.8 | 5241.6 | 5616.2 | 5762.4 | 6182.7 | 6545.1 |
| 17.5° | 4401.0 | 4419.2 | 4452.7 | 4531.9 | 4656.8 | 4833.4 | 5107.5 | 5521.8 | 5585.7 | 6100.4 | 6536.0 |
| 20° | 4416.2 | 4437.5 | 4440.6 | 4474.1 | 4559.3 | 4696.4 | 4976.6 | 5421.2 | 5463.9 | 6085.2 | 6560.3 |
| 22.5° | 4538.0 | 4507.6 | 4519.7 | 4498.4 | 4522.8 | 4629.4 | 4876.1 | 5287.2 | 5451.7 | 5957.3 | 6508.5 |
| 25° | 4720.8 | 4678.1 | 4672.0 | 4598.9 | 4553.2 | 4583.7 | 4857.8 | 5253.7 | 5360.3 | 5917.7 | 6505.5 |
| 27.5° | 5043.6 | 4979.6 | 4979.6 | 4870.0 | 4684.2 | 4635.5 | 4806.0 | 5198.9 | 5293.3 | 5881.1 | 6435.4 |
| 30° | 5354.2 | 5354.2 | 5357.3 | 5202.0 | 4994.9 | 4754.3 | 4827.3 | 5177.6 | 5238.5 | 5771.5 | 6341.0 |
| 32.5° | 5731.9 | 5722.8 | 5707.5 | 5631.4 | 5311.6 | 4952.2 | 4930.9 | 5150.2 | 5180.6 | 5735.0 | 6313.6 |
| 35° | 6100.4 | 6076.1 | 6194.8 | 6127.8 | 5802.0 | 5339.0 | 5037.5 | 5162.4 | 5229.4 | 5680.1 | 6228.3 |
| 37.5° | 6377.6 | 6392.8 | 6639.5 | 6682.1 | 6401.9 | 5777.6 | 5339.0 | 5284.2 | 5348.2 | 5759.3 | 6228.3 |
| 40° | 6737.0 | 6797.9 | 7029.4 | 7172.5 | 7001.9 | 6356.3 | 5817.2 | 5488.3 | 5533.9 | 5936.0 | 6362.4 |
| 42.5° | 7209.0 | 7260.8 | 7556.2 | 7742.0 | 7693.3 | 7093.3 | 6289.3 | 5914.6 | 5878.1 | 6231.4 | 6563.4 |
| 45° | 7833.4 | 7842.5 | 8141.0 | 8396.8 | 8497.4 | 7863.9 | 7038.5 | 6453.7 | 6423.3 | 6740.0 | 6931.9 |
| 47.5° | 8576.5 | 8567.4 | 8753.2 | 9027.3 | 9298.4 | 8783.6 | 7900.4 | 7273.0 | 7163.4 | 7467.9 | 7544.1 |
| 50° | 9295.3 | 9255.7 | 9298.4 | 9648.6 | 10169.4 | 9934.9 | 8948.1 | 8275.0 | 8165.4 | 8332.9 | 8463.8 |
| 52.5° | 9691.2 | 9740.0 | 9624.2 | 10087.2 | 11095.3 | 11296.3 | 10336.9 | 9472.0 | 9377.5 | 9459.8 | 9688.2 |
| 55° | 9414.1 | 9514.6 | 9438.5 | 9877.0 | 11500.4 | 12956.2 | 12133.9 | 10857.7 | 10735.9 | 10705.4 | 11080.1 |
| 57.5° | 8235.4 | 8418.2 | 8433.4 | 9127.8 | 11360.3 | 14241.4 | 14661.7 | 12493.2 | 12310.5 | 11999.8 | 12386.6 |
| 60° | 6322.8 | 6505.5 | 6645.6 | 7467.9 | 10160.3 | 15008.9 | 17591.6 | 14820.1 | 14217.1 | 13413.0 | 13644.5 |
| 62.5° | 4431.4 | 4556.3 | 4696.4 | 5202.0 | 7833.4 | 14558.2 | 20125.6 | 18097.2 | 16985.6 | 14902.3 | 15191.7 |
| 65° | 3228.4 | 3325.8 | 3469.0 | 3767.5 | 4812.1 | 12045.5 | 21301.2 | 21989.6 | 20935.8 | 16796.7 | 16760.2 |
| 67.5° | 2430.4 | 2491.3 | 2680.2 | 3158.3 | 3335.0 | 7440.5 | 20083.0 | 26101.2 | 25248.4 | 18901.3 | 18021.1 |
| 70° | 1839.6 | 1891.3 | 2068.0 | 2722.8 | 3115.7 | 3989.8 | 15843.4 | 27017.9 | 27261.6 | 21261.7 | 18867.8 |
| 72.5° | 1267.0 | 1324.9 | 1522.8 | 2269.0 | 2966.5 | 3164.4 | 9944.0 | 24544.9 | 25467.7 | 22233.2 | 17960.2 |
| 75° | 776.6 | 816.2 | 932.0 | 1720.8 | 2945.1 | 3094.4 | 5473.0 | 20113.4 | 21091.1 | 20542.9 | 15712.5 |
| 77.5° | 548.2 | 545.2 | 566.5 | 1008.1 | 2552.3 | 3112.6 | 3374.6 | 14737.9 | 15688.1 | 15139.9 | 10662.8 |
| 80° | 399.0 | 402.0 | 423.3 | 603.0 | 1733.0 | 3164.4 | 2658.8 | 9870.9 | 10154.2 | 7894.3 | 4206.0 |
| 82.5° | 240.6 | 252.8 | 304.6 | 408.1 | 1041.6 | 2856.8 | 2457.8 | 5485.2 | 5131.9 | 2534.0 | 1157.3 |
| 85° | 127.9 | 127.9 | 179.7 | 258.9 | 554.3 | 2132.0 | 2366.5 | 2610.1 | 2186.8 | 785.8 | 429.4 |
| 87.5° | 30.5 | 30.5 | 51.8 | 103.6 | 222.3 | 1020.3 | 1614.2 | 1038.6 | 831.5 | 265.0 | 176.6 |
| 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° | 6368.4 | 6368.4 | 6368.4 | 6368.4 | 6368.4 | 6368.4 | 6368.4 | 6368.4 | 6368.4 | 6368.4 | 6368.4 |
| 2.5° | 6438.5 | 6401.9 | 6447.6 | 6356.3 | 6283.2 | 6286.2 | 6173.5 | 6167.4 | 6152.2 | 6073.0 | 6100.4 |
| 5° | 6511.6 | 6481.1 | 6429.4 | 6328.9 | 6167.4 | 6006.0 | 5908.6 | 5783.7 | 5731.9 | 5704.5 | 5716.7 |
| 7.5° | 6581.6 | 6526.8 | 6377.6 | 6237.5 | 5987.7 | 5683.2 | 5506.5 | 5339.0 | 5125.8 | 5101.5 | 5058.8 |
| 10° | 6599.9 | 6484.2 | 6292.3 | 5993.8 | 5661.9 | 5323.8 | 4921.8 | 4611.1 | 4446.6 | 4318.7 | 4270.0 |
| 12.5° | 6572.5 | 6523.8 | 6155.3 | 5771.5 | 5269.0 | 4739.0 | 4270.0 | 3831.4 | 3526.9 | 3368.5 | 3325.8 |
| 15° | 6569.5 | 6484.2 | 6003.0 | 5433.4 | 4790.8 | 4099.4 | 3432.4 | 2905.5 | 2585.8 | 2454.8 | 2454.8 |
| 17.5° | 6572.5 | 6368.4 | 5823.3 | 5092.3 | 4227.4 | 3292.3 | 2558.3 | 2125.9 | 1949.2 | 1930.9 | 1946.2 |
| 20° | 6511.6 | 6283.2 | 5634.4 | 4690.3 | 3520.8 | 2473.1 | 1857.8 | 1681.2 | 1681.2 | 1705.6 | 1714.7 |
| 22.5° | 6456.8 | 6155.3 | 5336.0 | 4193.9 | 2802.0 | 1790.8 | 1510.6 | 1458.9 | 1516.7 | 1559.4 | 1577.6 |
| 25° | 6380.6 | 6048.7 | 5031.4 | 3679.1 | 2132.0 | 1443.6 | 1312.7 | 1324.9 | 1379.7 | 1455.8 | 1449.7 |
| 27.5° | 6271.0 | 5862.9 | 4669.0 | 3082.2 | 1586.8 | 1245.7 | 1212.2 | 1218.3 | 1276.1 | 1309.6 | 1303.5 |
| 30° | 6146.1 | 5674.0 | 4334.0 | 2488.3 | 1257.9 | 1142.1 | 1139.1 | 1154.3 | 1163.4 | 1181.7 | 1178.7 |
| 32.5° | 5987.7 | 5424.3 | 3977.6 | 1934.0 | 1133.0 | 1084.2 | 1072.1 | 1062.9 | 1072.1 | 1069.0 | 1059.9 |
| 35° | 5875.1 | 5290.3 | 3615.2 | 1474.1 | 1062.9 | 1032.5 | 1023.3 | 1008.1 | 995.9 | 977.7 | 974.6 |
| 37.5° | 5844.6 | 5156.3 | 3234.5 | 1203.0 | 1008.1 | 992.9 | 962.4 | 935.0 | 919.8 | 910.6 | 904.6 |
| 40° | 5826.3 | 5068.0 | 2862.9 | 1056.8 | 962.4 | 947.2 | 910.6 | 874.1 | 858.9 | 849.7 | 852.8 |
| 42.5° | 5890.3 | 5019.2 | 2485.2 | 983.7 | 922.8 | 895.4 | 855.8 | 813.2 | 810.1 | 804.1 | 813.2 |
| 45° | 6115.7 | 5080.1 | 2135.0 | 932.0 | 883.2 | 837.6 | 785.8 | 764.5 | 761.4 | 755.3 | 761.4 |
| 47.5° | 6627.3 | 5232.4 | 1836.5 | 898.5 | 840.6 | 801.0 | 746.2 | 715.7 | 712.7 | 709.6 | 709.6 |
| 50° | 7333.9 | 5701.4 | 1586.8 | 858.9 | 813.2 | 758.4 | 706.6 | 673.1 | 667.0 | 654.8 | 654.8 |
| 52.5° | 8442.5 | 6490.3 | 1437.5 | 837.6 | 764.5 | 718.8 | 664.0 | 627.4 | 612.2 | 600.0 | 600.0 |
| 55° | 9691.2 | 7467.9 | 1410.1 | 801.0 | 712.7 | 670.0 | 621.3 | 584.8 | 569.5 | 554.3 | 548.2 |
| 57.5° | 11113.6 | 8762.3 | 1605.1 | 776.6 | 676.1 | 621.3 | 566.5 | 533.0 | 520.8 | 505.6 | 499.5 |
| 60° | 12438.4 | 10053.7 | 2211.1 | 740.1 | 642.6 | 575.6 | 520.8 | 487.3 | 472.1 | 456.8 | 456.8 |
| 62.5° | 13970.4 | 11652.6 | 3237.5 | 740.1 | 612.2 | 526.9 | 472.1 | 447.7 | 438.6 | 423.3 | 420.3 |
| 65° | 15782.5 | 13306.4 | 3986.8 | 785.8 | 603.0 | 484.3 | 426.4 | 402.0 | 392.9 | 383.8 | 380.7 |
| 67.5° | 17162.2 | 14256.7 | 3429.4 | 907.6 | 642.6 | 447.7 | 380.7 | 365.5 | 359.4 | 350.2 | 344.2 |
| 70° | 17308.4 | 13678.0 | 2068.0 | 980.7 | 682.2 | 411.2 | 341.1 | 325.9 | 325.9 | 316.7 | 310.7 |
| 72.5° | 15995.7 | 12136.9 | 1391.9 | 874.1 | 618.3 | 368.5 | 301.5 | 289.3 | 283.2 | 277.2 | 274.1 |
| 75° | 13385.6 | 10294.3 | 1099.5 | 697.5 | 475.1 | 304.6 | 261.9 | 249.7 | 240.6 | 237.6 | 231.5 |
| 77.5° | 8990.7 | 6691.3 | 813.2 | 545.2 | 350.2 | 246.7 | 219.3 | 207.1 | 198.0 | 194.9 | 185.8 |
| 80° | 3453.8 | 2549.2 | 523.9 | 395.9 | 246.7 | 194.9 | 173.6 | 161.4 | 155.3 | 146.2 | 140.1 |
| 82.5° | 1017.2 | 825.4 | 292.4 | 243.7 | 158.4 | 134.0 | 124.9 | 115.7 | 106.6 | 97.5 | 94.4 |
| 85° | 420.3 | 377.7 | 179.7 | 127.9 | 97.5 | 79.2 | 73.1 | 64.0 | 54.8 | 48.7 | 42.6 |
| 87.5° | 194.9 | 161.4 | 82.2 | 48.7 | 33.5 | 18.3 | 9.1 | 3.0 | 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)