

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: P480005

Luminaire Tested: **IFLD-S-SA6B-727-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480005
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-727-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

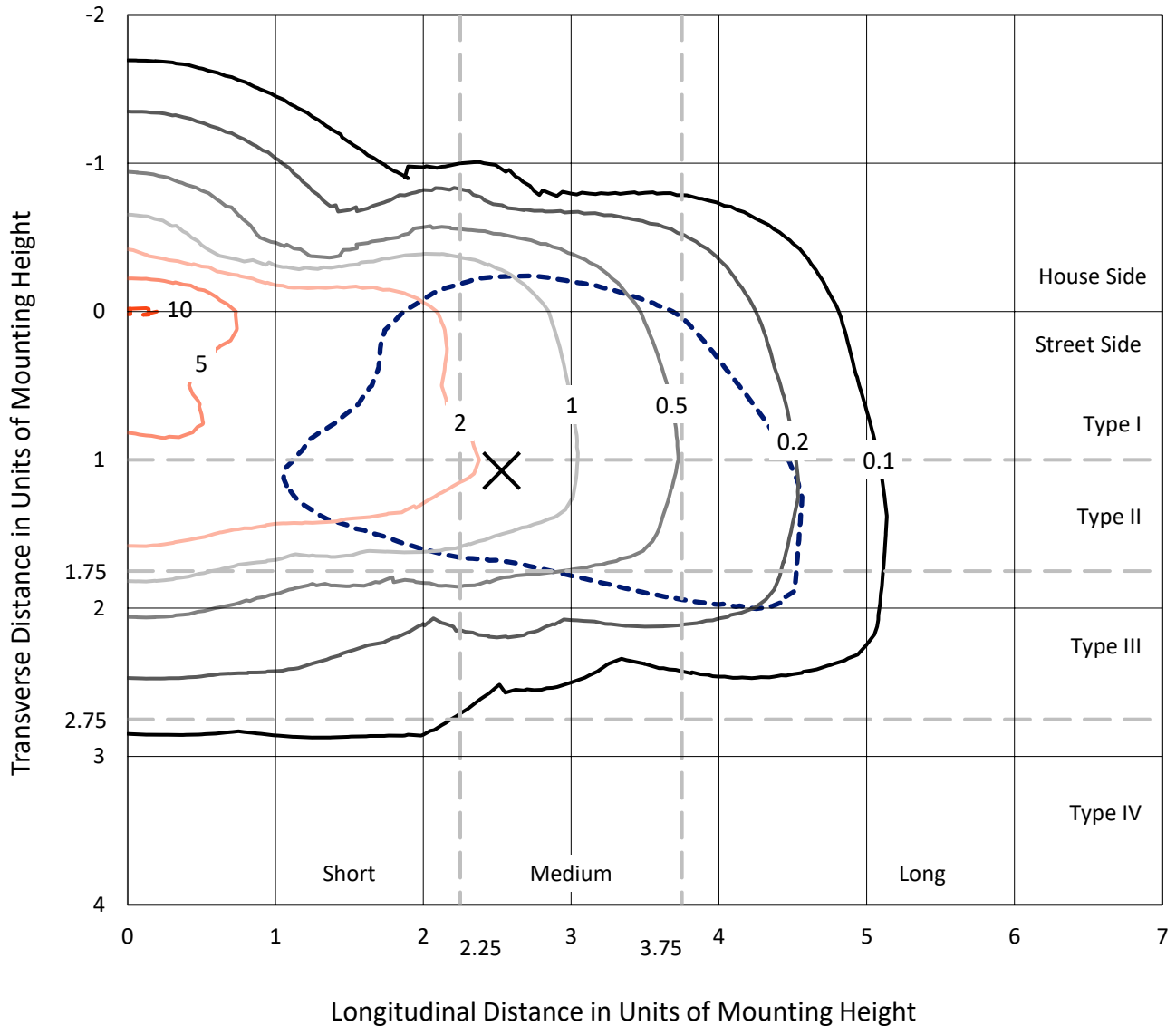
Lumens per Lamp: N/A
Luminaire Lumens: 27833.3 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9
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

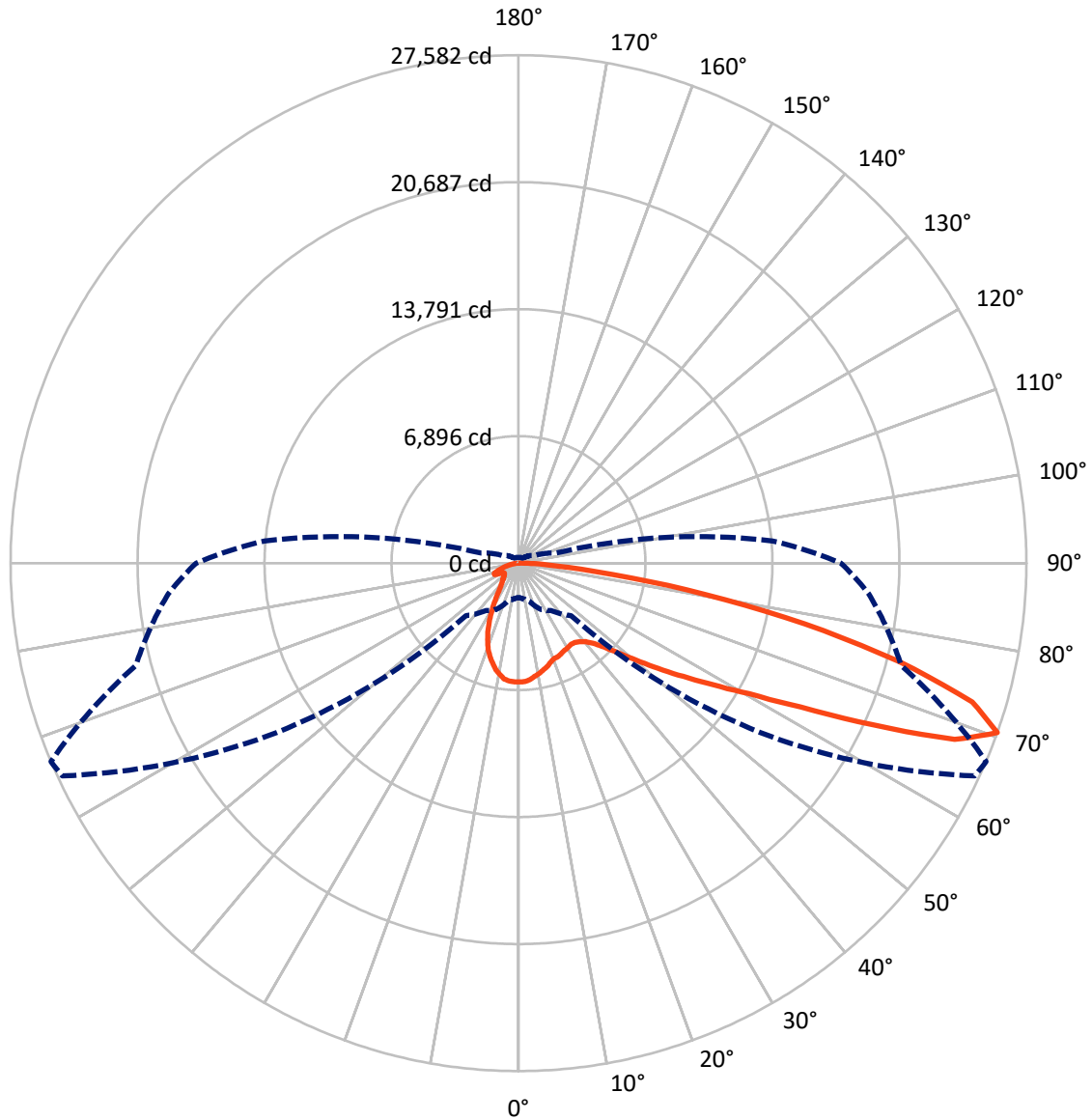
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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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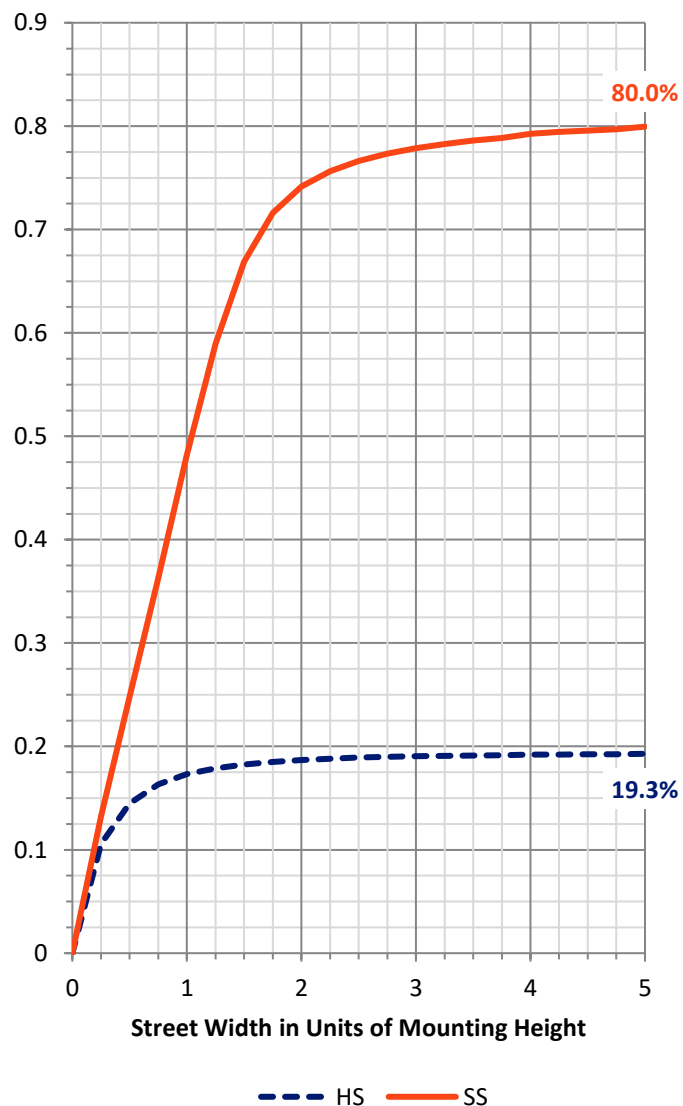
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5420.8 | 0.0 | 5420.8 |
| | % Fixture | 19.5 | 0.0 | 19.5 |
| Street Side | Lumens | 22412.5 | 0.0 | 22412.5 |
| | % Fixture | 80.5 | 0.0 | 80.5 |
| Total | Lumens | 27833.3 | 0.0 | 27833.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 562.2 | 2.0 |
| 10°-20° | 1346.4 | 4.8 |
| 20°-30° | 1818.3 | 6.5 |
| 30°-40° | 2433.0 | 8.7 |
| 40°-50° | 3577.7 | 12.9 |
| 50°-60° | 5576.7 | 20.0 |
| 60°-70° | 6869.5 | 24.7 |
| 70°-80° | 4854.0 | 17.4 |
| 80°-90° | 795.6 | 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° | 27833.3 | 100.0 |
| 0°-180° | 27833.3 | 100.0 |

Coefficient of Utilization

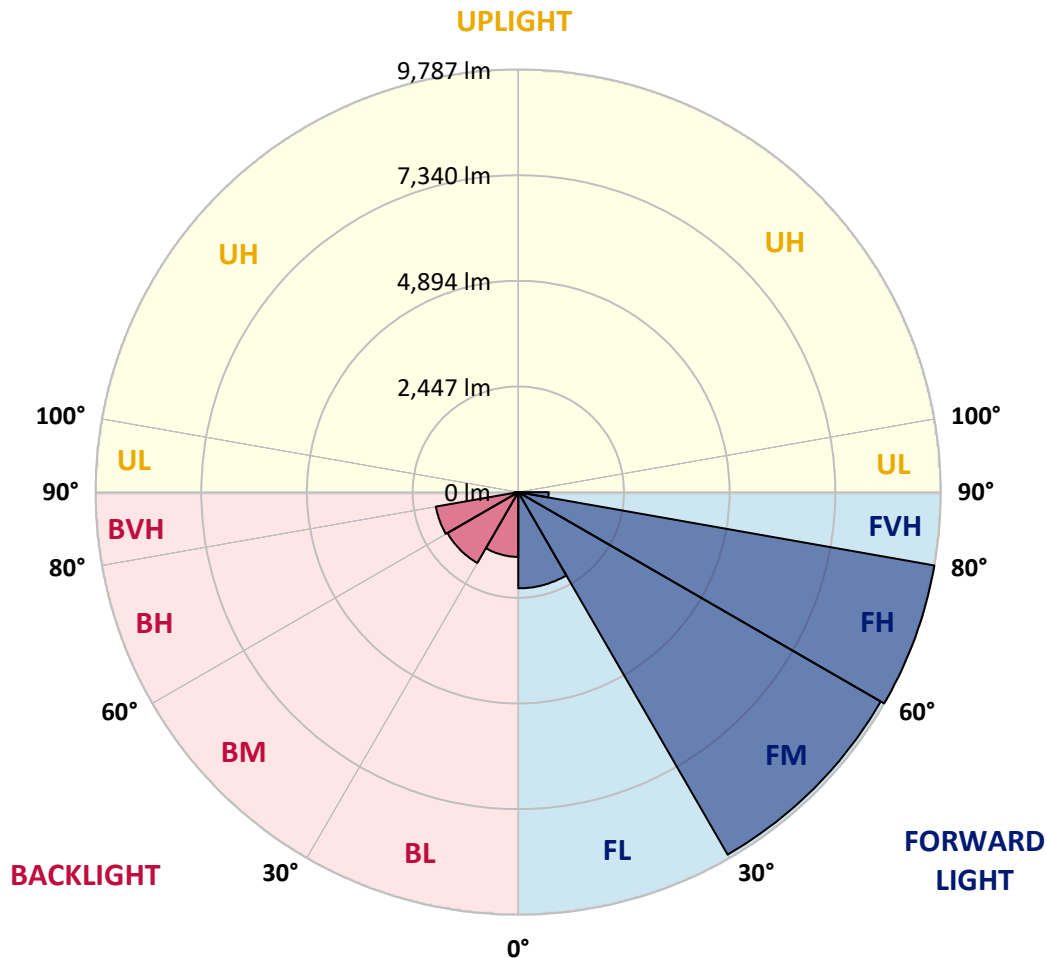


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2227.8 | 8.0 | | | |
| FM (30°-60°) | 9693.7 | 34.8 | | | |
| FH (60°-80°) | 9787.1 | 35.2 | | | G4/12000 |
| FVH (80°-90°) | 703.8 | 2.5 | | | G4/750 |
| BL (0°-30°) | 1499.0 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 1893.6 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 1936.4 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 91.8 | 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° | 6443.3 | 6443.3 | 6443.3 | 6443.3 | 6443.3 | 6443.3 | 6443.3 | 6443.3 | 6443.3 | 6443.3 | 6443.3 |
| 2.5° | 5999.6 | 6067.4 | 6092.0 | 6129.0 | 6224.5 | 6295.4 | 6338.5 | 6387.9 | 6446.4 | 6495.7 | 6526.5 |
| 5° | 5580.5 | 5617.5 | 5676.0 | 5716.1 | 5836.3 | 6027.3 | 6156.7 | 6366.3 | 6360.1 | 6437.2 | 6554.3 |
| 7.5° | 5173.8 | 5210.7 | 5238.5 | 5318.6 | 5491.1 | 5663.7 | 5901.0 | 6239.9 | 6215.3 | 6394.0 | 6575.8 |
| 10° | 4921.1 | 4893.3 | 4902.6 | 5038.2 | 5173.8 | 5367.9 | 5666.8 | 6011.9 | 6101.3 | 6378.6 | 6637.5 |
| 12.5° | 4683.8 | 4653.0 | 4726.9 | 4813.2 | 4979.6 | 5155.3 | 5512.7 | 5823.9 | 5959.5 | 6323.1 | 6665.2 |
| 15° | 4535.9 | 4514.3 | 4606.8 | 4643.7 | 4841.0 | 5050.5 | 5303.2 | 5682.2 | 5830.1 | 6255.4 | 6622.0 |
| 17.5° | 4452.7 | 4471.2 | 4505.1 | 4585.2 | 4711.5 | 4890.3 | 5167.6 | 5586.7 | 5651.4 | 6172.2 | 6612.8 |
| 20° | 4468.1 | 4489.7 | 4492.8 | 4526.7 | 4612.9 | 4751.6 | 5035.1 | 5485.0 | 5528.1 | 6156.7 | 6637.5 |
| 22.5° | 4591.4 | 4560.6 | 4572.9 | 4551.3 | 4576.0 | 4683.8 | 4933.4 | 5349.4 | 5515.8 | 6027.3 | 6585.1 |
| 25° | 4776.3 | 4733.1 | 4726.9 | 4653.0 | 4606.8 | 4637.6 | 4914.9 | 5315.5 | 5423.4 | 5987.3 | 6582.0 |
| 27.5° | 5102.9 | 5038.2 | 5038.2 | 4927.2 | 4739.3 | 4690.0 | 4862.5 | 5260.0 | 5355.6 | 5950.3 | 6511.1 |
| 30° | 5417.2 | 5417.2 | 5420.3 | 5263.1 | 5053.6 | 4810.1 | 4884.1 | 5238.5 | 5300.1 | 5839.4 | 6415.6 |
| 32.5° | 5799.3 | 5790.1 | 5774.6 | 5697.6 | 5374.1 | 5010.4 | 4988.9 | 5210.7 | 5241.6 | 5802.4 | 6387.9 |
| 35° | 6172.2 | 6147.5 | 6267.7 | 6199.9 | 5870.2 | 5401.8 | 5096.7 | 5223.1 | 5290.9 | 5746.9 | 6301.6 |
| 37.5° | 6452.6 | 6468.0 | 6717.6 | 6760.7 | 6477.2 | 5845.5 | 5401.8 | 5346.3 | 5411.0 | 5827.0 | 6301.6 |
| 40° | 6816.2 | 6877.8 | 7112.0 | 7256.8 | 7084.3 | 6431.0 | 5885.6 | 5552.8 | 5599.0 | 6005.8 | 6437.2 |
| 42.5° | 7293.8 | 7346.2 | 7645.1 | 7833.1 | 7783.8 | 7176.7 | 6363.2 | 5984.2 | 5947.2 | 6304.7 | 6640.5 |
| 45° | 7925.5 | 7934.7 | 8236.7 | 8495.6 | 8597.3 | 7956.3 | 7121.2 | 6529.6 | 6498.8 | 6819.3 | 7013.4 |
| 47.5° | 8677.4 | 8668.1 | 8856.1 | 9133.4 | 9407.7 | 8886.9 | 7993.3 | 7358.5 | 7247.6 | 7555.7 | 7632.8 |
| 50° | 9404.6 | 9364.5 | 9407.7 | 9762.0 | 10289.0 | 10051.7 | 9053.3 | 8372.3 | 8261.4 | 8430.9 | 8563.4 |
| 52.5° | 9805.2 | 9854.5 | 9737.4 | 10205.8 | 11225.7 | 11429.1 | 10458.5 | 9583.3 | 9487.8 | 9571.0 | 9802.1 |
| 55° | 9524.8 | 9626.5 | 9549.4 | 9993.2 | 11635.6 | 13108.5 | 12276.5 | 10985.4 | 10862.1 | 10831.3 | 11210.3 |
| 57.5° | 8332.2 | 8517.1 | 8532.5 | 9235.1 | 11493.8 | 14408.9 | 14834.1 | 12640.1 | 12455.2 | 12140.9 | 12532.3 |
| 60° | 6397.1 | 6582.0 | 6723.7 | 7555.7 | 10279.7 | 15185.4 | 17798.5 | 14994.4 | 14384.2 | 13570.7 | 13804.9 |
| 62.5° | 4483.5 | 4609.9 | 4751.6 | 5263.1 | 7925.5 | 14729.3 | 20362.2 | 18310.0 | 17185.3 | 15077.6 | 15370.3 |
| 65° | 3266.3 | 3364.9 | 3509.8 | 3811.8 | 4868.7 | 12187.1 | 21551.7 | 22248.1 | 21181.9 | 16994.2 | 16957.2 |
| 67.5° | 2459.0 | 2520.6 | 2711.7 | 3195.5 | 3374.2 | 7528.0 | 20319.1 | 26408.1 | 25545.2 | 19123.5 | 18233.0 |
| 70° | 1861.2 | 1913.6 | 2092.3 | 2754.8 | 3152.3 | 4036.7 | 16029.7 | 27335.6 | 27582.1 | 21511.6 | 19089.6 |
| 72.5° | 1281.9 | 1340.4 | 1540.7 | 2295.7 | 3001.3 | 3201.6 | 10060.9 | 24833.4 | 25767.1 | 22494.6 | 18171.3 |
| 75° | 785.8 | 825.8 | 942.9 | 1741.0 | 2979.8 | 3130.8 | 5537.4 | 20349.9 | 21339.1 | 20784.4 | 15897.2 |
| 77.5° | 554.7 | 551.6 | 573.2 | 1020.0 | 2582.3 | 3149.2 | 3414.3 | 14911.2 | 15872.6 | 15317.9 | 10788.2 |
| 80° | 403.7 | 406.8 | 428.3 | 610.1 | 1753.3 | 3201.6 | 2690.1 | 9987.0 | 10273.6 | 7987.1 | 4255.5 |
| 82.5° | 243.4 | 255.8 | 308.1 | 412.9 | 1053.9 | 2890.4 | 2486.7 | 5549.7 | 5192.2 | 2563.8 | 1171.0 |
| 85° | 129.4 | 129.4 | 181.8 | 261.9 | 560.8 | 2157.0 | 2394.3 | 2640.8 | 2212.5 | 795.0 | 434.5 |
| 87.5° | 30.8 | 30.8 | 52.4 | 104.8 | 224.9 | 1032.3 | 1633.2 | 1050.8 | 841.2 | 268.1 | 178.7 |
| 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° | 6443.3 | 6443.3 | 6443.3 | 6443.3 | 6443.3 | 6443.3 | 6443.3 | 6443.3 | 6443.3 | 6443.3 | 6443.3 |
| 2.5° | 6514.2 | 6477.2 | 6523.4 | 6431.0 | 6357.0 | 6360.1 | 6246.1 | 6239.9 | 6224.5 | 6144.4 | 6172.2 |
| 5° | 6588.1 | 6557.3 | 6504.9 | 6403.3 | 6239.9 | 6076.6 | 5978.0 | 5851.7 | 5799.3 | 5771.6 | 5783.9 |
| 7.5° | 6659.0 | 6603.6 | 6452.6 | 6310.8 | 6058.1 | 5750.0 | 5571.3 | 5401.8 | 5186.1 | 5161.4 | 5118.3 |
| 10° | 6677.5 | 6560.4 | 6366.3 | 6064.3 | 5728.4 | 5386.4 | 4979.6 | 4665.3 | 4498.9 | 4369.5 | 4320.2 |
| 12.5° | 6649.8 | 6600.5 | 6227.6 | 5839.4 | 5330.9 | 4794.7 | 4320.2 | 3876.5 | 3568.3 | 3408.1 | 3364.9 |
| 15° | 6646.7 | 6560.4 | 6073.5 | 5497.3 | 4847.1 | 4147.6 | 3472.8 | 2939.7 | 2616.2 | 2483.7 | 2483.7 |
| 17.5° | 6649.8 | 6443.3 | 5891.7 | 5152.2 | 4277.1 | 3331.1 | 2588.4 | 2150.9 | 1972.1 | 1953.6 | 1969.0 |
| 20° | 6588.1 | 6357.0 | 5700.7 | 4745.4 | 3562.2 | 2502.1 | 1879.7 | 1701.0 | 1701.0 | 1725.6 | 1734.9 |
| 22.5° | 6532.7 | 6227.6 | 5398.7 | 4243.2 | 2834.9 | 1811.9 | 1528.4 | 1476.0 | 1534.6 | 1577.7 | 1596.2 |
| 25° | 6455.6 | 6119.8 | 5090.6 | 3722.4 | 2157.0 | 1460.6 | 1328.1 | 1340.4 | 1395.9 | 1472.9 | 1466.8 |
| 27.5° | 6344.7 | 5931.8 | 4723.9 | 3118.4 | 1605.4 | 1260.3 | 1226.4 | 1232.6 | 1291.1 | 1325.0 | 1318.9 |
| 30° | 6218.4 | 5740.7 | 4384.9 | 2517.5 | 1272.6 | 1155.5 | 1152.5 | 1167.9 | 1177.1 | 1195.6 | 1192.5 |
| 32.5° | 6058.1 | 5488.1 | 4024.4 | 1956.7 | 1146.3 | 1097.0 | 1084.7 | 1075.4 | 1084.7 | 1081.6 | 1072.3 |
| 35° | 5944.1 | 5352.5 | 3657.7 | 1491.4 | 1075.4 | 1044.6 | 1035.4 | 1020.0 | 1007.6 | 989.1 | 986.1 |
| 37.5° | 5913.3 | 5216.9 | 3272.5 | 1217.2 | 1020.0 | 1004.6 | 973.7 | 946.0 | 930.6 | 921.4 | 915.2 |
| 40° | 5894.8 | 5127.5 | 2896.6 | 1069.3 | 973.7 | 958.3 | 921.4 | 884.4 | 869.0 | 859.7 | 862.8 |
| 42.5° | 5959.5 | 5078.2 | 2514.5 | 995.3 | 933.7 | 905.9 | 865.9 | 822.7 | 819.7 | 813.5 | 822.7 |
| 45° | 6187.6 | 5139.9 | 2160.1 | 942.9 | 893.6 | 847.4 | 795.0 | 773.4 | 770.4 | 764.2 | 770.4 |
| 47.5° | 6705.2 | 5293.9 | 1858.1 | 909.0 | 850.5 | 810.4 | 755.0 | 724.1 | 721.1 | 718.0 | 718.0 |
| 50° | 7420.1 | 5768.5 | 1605.4 | 869.0 | 822.7 | 767.3 | 714.9 | 681.0 | 674.8 | 662.5 | 662.5 |
| 52.5° | 8541.8 | 6566.6 | 1454.4 | 847.4 | 773.4 | 727.2 | 671.8 | 634.8 | 619.4 | 607.0 | 607.0 |
| 55° | 9805.2 | 7555.7 | 1426.7 | 810.4 | 721.1 | 677.9 | 628.6 | 591.6 | 576.2 | 560.8 | 554.7 |
| 57.5° | 11244.2 | 8865.3 | 1623.9 | 785.8 | 684.1 | 628.6 | 573.2 | 539.3 | 526.9 | 511.5 | 505.4 |
| 60° | 12584.7 | 10171.9 | 2237.1 | 748.8 | 650.2 | 582.4 | 526.9 | 493.0 | 477.6 | 462.2 | 462.2 |
| 62.5° | 14134.6 | 11789.6 | 3275.6 | 748.8 | 619.4 | 533.1 | 477.6 | 453.0 | 443.7 | 428.3 | 425.2 |
| 65° | 15968.1 | 13462.9 | 4033.6 | 795.0 | 610.1 | 490.0 | 431.4 | 406.8 | 397.5 | 388.3 | 385.2 |
| 67.5° | 17364.0 | 14424.3 | 3469.7 | 918.3 | 650.2 | 453.0 | 385.2 | 369.8 | 363.6 | 354.4 | 348.2 |
| 70° | 17511.9 | 13838.8 | 2092.3 | 992.2 | 690.2 | 416.0 | 345.1 | 329.7 | 329.7 | 320.5 | 314.3 |
| 72.5° | 16183.8 | 12279.6 | 1408.2 | 884.4 | 625.5 | 372.9 | 305.1 | 292.7 | 286.6 | 280.4 | 277.3 |
| 75° | 13543.0 | 10415.3 | 1112.4 | 705.7 | 480.7 | 308.1 | 265.0 | 252.7 | 243.4 | 240.4 | 234.2 |
| 77.5° | 9096.4 | 6770.0 | 822.7 | 551.6 | 354.4 | 249.6 | 221.9 | 209.5 | 200.3 | 197.2 | 188.0 |
| 80° | 3494.4 | 2579.2 | 530.0 | 400.6 | 249.6 | 197.2 | 175.6 | 163.3 | 157.2 | 147.9 | 141.7 |
| 82.5° | 1029.2 | 835.1 | 295.8 | 246.5 | 160.2 | 135.6 | 126.3 | 117.1 | 107.9 | 98.6 | 95.5 |
| 85° | 425.2 | 382.1 | 181.8 | 129.4 | 98.6 | 80.1 | 74.0 | 64.7 | 55.5 | 49.3 | 43.1 |
| 87.5° | 197.2 | 163.3 | 83.2 | 49.3 | 33.9 | 18.5 | 9.2 | 3.1 | 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)