

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: P481256

Luminaire Tested: **IFLD-S-SA6E-735-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481256
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-735-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

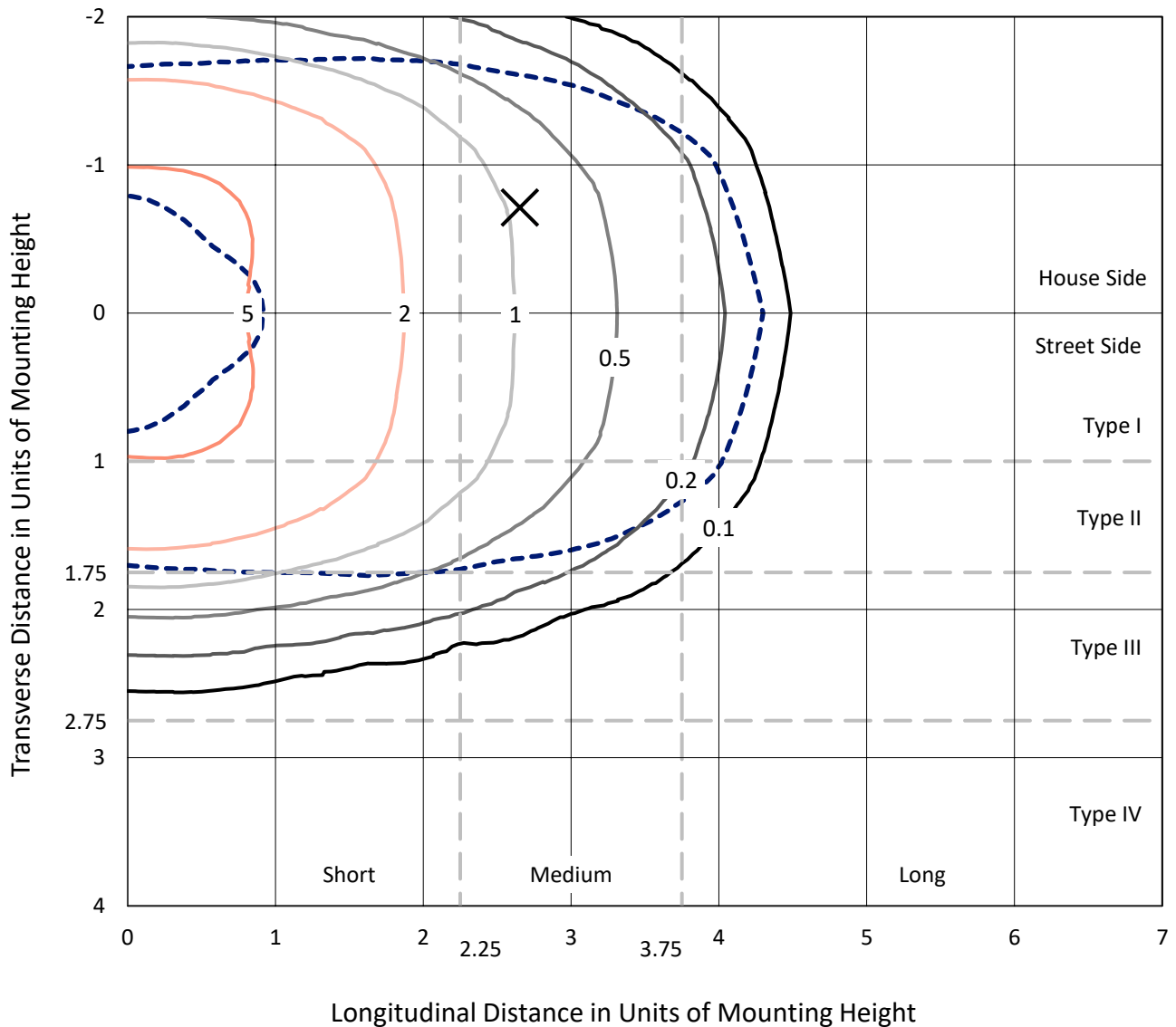
Lumens per Lamp: N/A
Luminaire Lumens: 53755.1 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 464.2
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

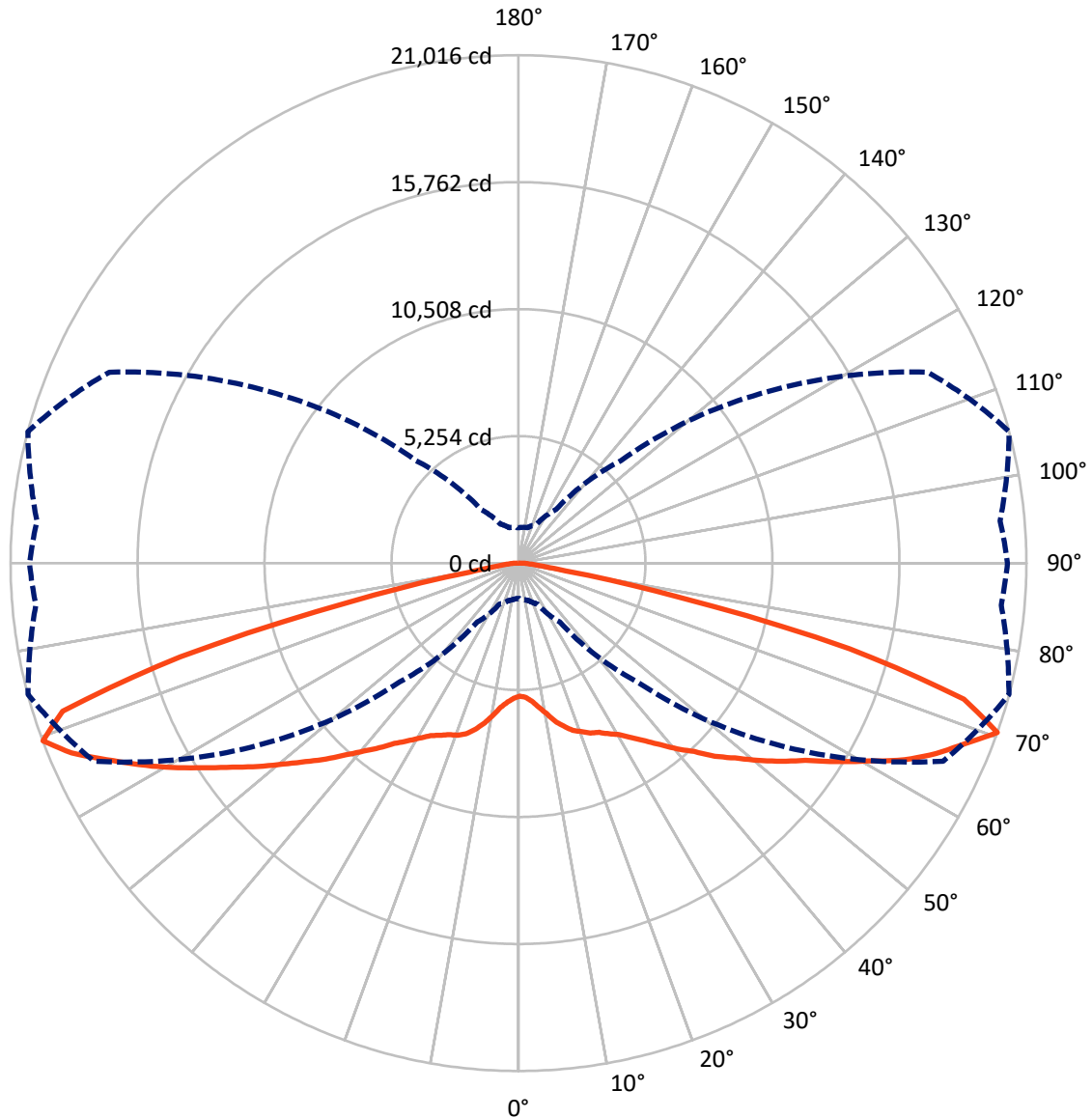
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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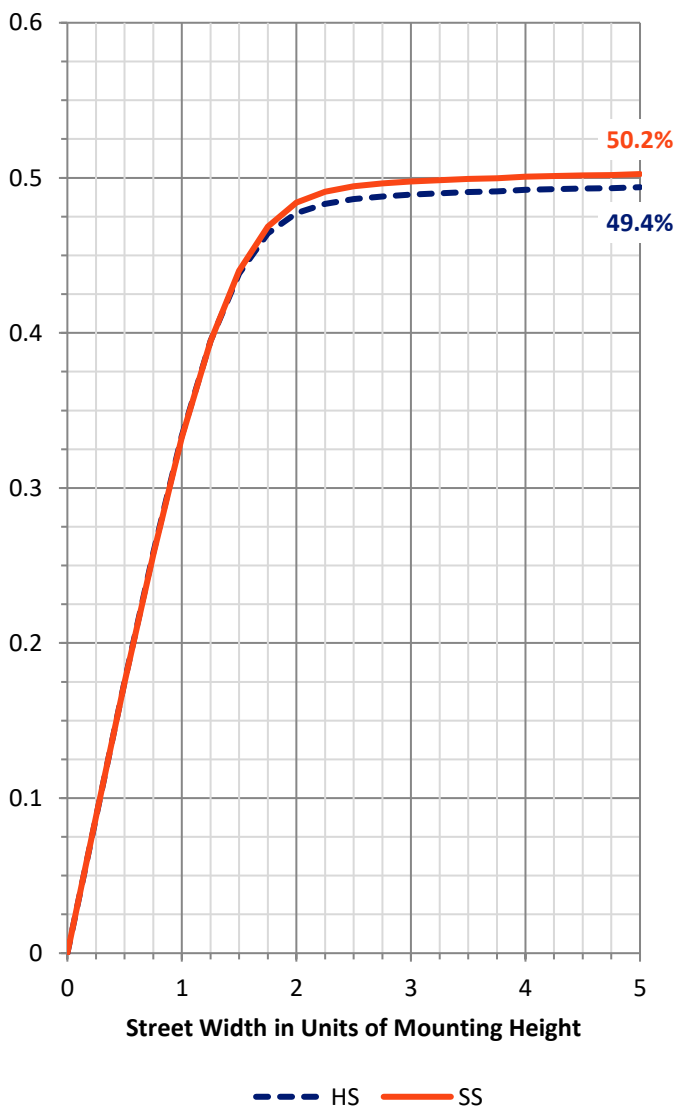
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 26686.3 | 0.0 | 26686.3 |
| | % Fixture | 49.6 | 0.0 | 49.6 |
| Street Side | Lumens | 27068.8 | 0.0 | 27068.8 |
| | % Fixture | 50.4 | 0.0 | 50.4 |
| Total | Lumens | 53755.1 | 0.0 | 53755.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 547.9 | 1.0 |
| 10°-20° | 1865.5 | 3.5 |
| 20°-30° | 3612.2 | 6.7 |
| 30°-40° | 6109.7 | 11.4 |
| 40°-50° | 9746.9 | 18.1 |
| 50°-60° | 13341.3 | 24.8 |
| 60°-70° | 12575.1 | 23.4 |
| 70°-80° | 5539.7 | 10.3 |
| 80°-90° | 416.8 | 0.8 |
| 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° | 53755.1 | 100.0 |
| 0°-180° | 53755.1 | 100.0 |

Coefficient of Utilization

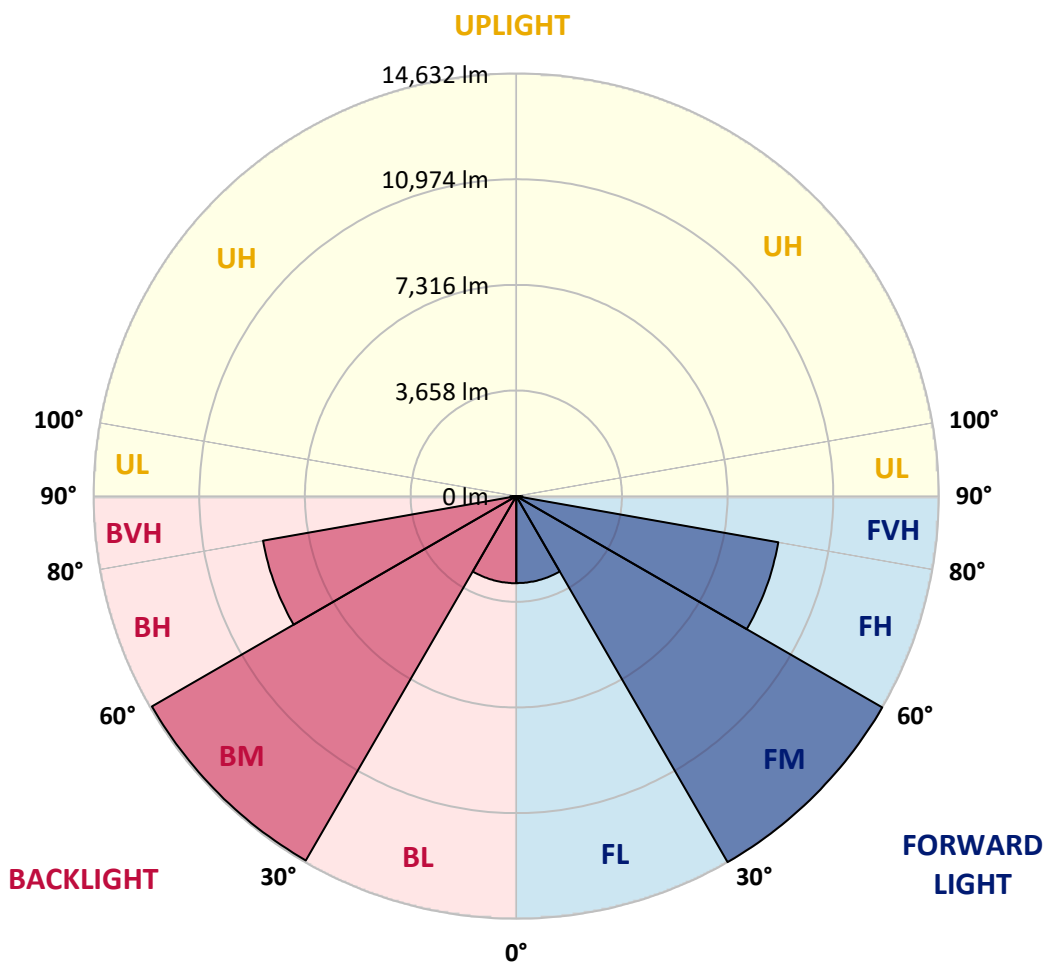


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3011.2 | 5.6 | | | |
| FM (30°-60°) | 14631.7 | 27.2 | | | |
| FH (60°-80°) | 9213.0 | 17.1 | | | G4/12000 |
| FVH (80°-90°) | 212.9 | 0.4 | | | G2/225 |
| BL (0°-30°) | 3014.4 | 5.6 | B4/5000 | | |
| BM (30°-60°) | 14566.3 | 27.1 | B5 | | |
| BH (60°-80°) | 8901.8 | 16.6 | B5 | | G5 |
| BVH (80°-90°) | 203.9 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5504.5 | 5504.5 | 5504.5 | 5504.5 | 5504.5 | 5504.5 | 5504.5 | 5504.5 | 5504.5 | 5504.5 | 5504.5 |
| 2.5° | 5469.7 | 5469.7 | 5463.9 | 5492.9 | 5521.9 | 5533.4 | 5556.6 | 5562.4 | 5597.2 | 5568.2 | 5626.2 |
| 5° | 5452.3 | 5446.5 | 5492.9 | 5562.4 | 5562.4 | 5637.7 | 5684.1 | 5747.8 | 5765.2 | 5800.0 | 5811.6 |
| 7.5° | 5574.0 | 5562.4 | 5539.2 | 5614.6 | 5678.3 | 5794.2 | 5857.9 | 5968.0 | 6008.6 | 6054.9 | 6107.1 |
| 10° | 5649.3 | 5649.3 | 5626.2 | 5759.4 | 5817.4 | 5973.8 | 6112.9 | 6223.0 | 6379.4 | 6431.5 | 6437.3 |
| 12.5° | 5660.9 | 5678.3 | 5747.8 | 5921.7 | 6083.9 | 6286.7 | 6391.0 | 6599.6 | 6756.0 | 6854.5 | 6889.3 |
| 15° | 5834.7 | 5800.0 | 5875.3 | 6112.9 | 6350.4 | 6530.0 | 6715.5 | 6866.1 | 7092.1 | 7219.6 | 7300.7 |
| 17.5° | 5991.2 | 5956.4 | 6095.5 | 6379.4 | 6622.7 | 6900.9 | 7063.1 | 7225.3 | 7387.6 | 7503.5 | 7509.3 |
| 20° | 6240.3 | 6269.3 | 6391.0 | 6698.1 | 7016.8 | 7260.1 | 7445.5 | 7474.5 | 7555.6 | 7723.6 | 7694.7 |
| 22.5° | 6547.4 | 6524.2 | 6779.2 | 7115.3 | 7462.9 | 7665.7 | 7770.0 | 7694.7 | 7654.1 | 7833.7 | 7874.3 |
| 25° | 6854.5 | 6924.0 | 7155.8 | 7468.7 | 7885.9 | 8158.2 | 8187.2 | 7978.6 | 7827.9 | 7891.7 | 7874.3 |
| 27.5° | 7323.8 | 7335.4 | 7578.8 | 7949.6 | 8372.6 | 8610.2 | 8592.8 | 8297.3 | 8007.6 | 8013.4 | 8024.9 |
| 30° | 7926.4 | 7868.5 | 8135.0 | 8471.1 | 8888.3 | 9102.7 | 9131.6 | 8708.7 | 8320.4 | 8204.6 | 8233.5 |
| 32.5° | 8505.9 | 8575.4 | 8807.2 | 9189.6 | 9496.7 | 9618.3 | 9554.6 | 9178.0 | 8673.9 | 8517.4 | 8534.8 |
| 35° | 9247.5 | 9235.9 | 9554.6 | 9879.1 | 10110.8 | 10134.0 | 10081.9 | 9531.4 | 9056.3 | 8853.5 | 8772.4 |
| 37.5° | 10041.3 | 10145.6 | 10354.2 | 10620.7 | 10864.1 | 10875.7 | 10591.8 | 10151.4 | 9566.2 | 9230.1 | 9328.6 |
| 40° | 10927.8 | 11043.7 | 11194.4 | 11582.6 | 11762.2 | 11576.8 | 11287.1 | 10690.3 | 10081.9 | 9786.4 | 9832.7 |
| 42.5° | 11710.0 | 11762.2 | 12069.3 | 12527.0 | 12613.9 | 12532.8 | 12104.0 | 11379.8 | 10672.9 | 10348.4 | 10371.6 |
| 45° | 12428.5 | 12498.0 | 12897.8 | 13309.2 | 13512.0 | 13373.0 | 12874.7 | 12185.2 | 11362.4 | 11084.3 | 10974.2 |
| 47.5° | 13089.1 | 13228.1 | 13616.3 | 14039.3 | 14352.2 | 14363.8 | 13749.6 | 12915.2 | 12046.1 | 11681.1 | 11675.3 |
| 50° | 13535.2 | 13738.0 | 14120.4 | 14601.3 | 15059.1 | 15238.7 | 14624.5 | 13726.4 | 12793.6 | 12405.3 | 12364.8 |
| 52.5° | 13778.6 | 13987.2 | 14369.6 | 15117.0 | 15626.9 | 15905.0 | 15615.3 | 14485.5 | 13668.5 | 13262.9 | 13199.1 |
| 55° | 13483.1 | 13622.1 | 14247.9 | 15296.6 | 16084.6 | 16542.4 | 16351.2 | 15534.2 | 14537.6 | 14207.3 | 14265.3 |
| 57.5° | 12225.7 | 12515.4 | 13286.1 | 14595.5 | 16073.1 | 17197.1 | 17179.7 | 16525.0 | 15540.0 | 15227.1 | 15238.7 |
| 60° | 10064.5 | 10307.8 | 11258.1 | 13089.1 | 15424.1 | 17463.7 | 18077.8 | 17486.8 | 16664.1 | 16299.0 | 16287.4 |
| 62.5° | 7103.7 | 7410.8 | 8511.7 | 10510.6 | 13512.0 | 17092.8 | 19109.2 | 18697.8 | 17765.0 | 17498.4 | 17596.9 |
| 65° | 3974.8 | 4160.2 | 5180.0 | 6987.8 | 10296.3 | 15053.3 | 19294.6 | 19955.2 | 18883.2 | 18477.6 | 18495.0 |
| 67.5° | 2126.5 | 2196.0 | 2671.1 | 3667.7 | 6298.3 | 11605.7 | 17423.1 | 20679.4 | 20094.2 | 19393.1 | 19283.0 |
| 70° | 1460.1 | 1483.3 | 1605.0 | 1877.3 | 2978.2 | 6941.4 | 13141.2 | 19387.3 | 21003.9 | 20047.9 | 20233.3 |
| 72.5° | 1234.2 | 1222.6 | 1251.5 | 1280.5 | 1558.6 | 3105.7 | 7712.1 | 14920.0 | 19827.7 | 19468.5 | 19398.9 |
| 75° | 1071.9 | 1066.1 | 1077.7 | 1048.7 | 1083.5 | 1367.4 | 3412.8 | 9299.7 | 14514.4 | 16200.5 | 16461.3 |
| 77.5° | 886.5 | 892.3 | 898.1 | 869.1 | 857.5 | 903.9 | 1373.2 | 4084.9 | 7144.2 | 7885.9 | 8505.9 |
| 80° | 672.1 | 683.7 | 730.1 | 701.1 | 654.7 | 660.5 | 811.2 | 1367.4 | 2051.1 | 1859.9 | 1917.9 |
| 82.5° | 457.7 | 463.5 | 562.0 | 527.3 | 492.5 | 446.2 | 521.5 | 706.9 | 799.6 | 608.4 | 533.1 |
| 85° | 324.5 | 318.7 | 365.0 | 336.1 | 312.9 | 226.0 | 312.9 | 399.8 | 480.9 | 301.3 | 272.3 |
| 87.5° | 75.3 | 75.3 | 150.6 | 121.7 | 115.9 | 92.7 | 121.7 | 156.4 | 208.6 | 133.3 | 121.7 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5504.5 | 5504.5 | 5504.5 | 5504.5 | 5504.5 | 5504.5 | 5504.5 | 5504.5 | 5504.5 | 5504.5 |
| 2.5° | 5608.8 | 5556.6 | 5556.6 | 5545.0 | 5498.7 | 5487.1 | 5446.5 | 5458.1 | 5429.1 | 5400.2 |
| 5° | 5805.8 | 5736.2 | 5736.2 | 5637.7 | 5545.0 | 5533.4 | 5487.1 | 5487.1 | 5440.7 | 5452.3 |
| 7.5° | 6078.1 | 6014.4 | 5910.1 | 5823.2 | 5695.7 | 5643.5 | 5556.6 | 5545.0 | 5533.4 | 5510.3 |
| 10° | 6402.6 | 6321.5 | 6217.2 | 6037.5 | 5933.2 | 5834.7 | 5747.8 | 5626.2 | 5597.2 | 5603.0 |
| 12.5° | 6842.9 | 6715.5 | 6489.5 | 6333.0 | 6199.8 | 6072.3 | 5944.8 | 5765.2 | 5724.7 | 5742.0 |
| 15° | 7155.8 | 6993.6 | 6767.6 | 6709.7 | 6530.0 | 6373.6 | 6165.0 | 5962.2 | 5892.7 | 5875.3 |
| 17.5° | 7410.8 | 7277.5 | 7144.2 | 7057.3 | 6912.5 | 6721.3 | 6431.5 | 6199.8 | 6043.3 | 6025.9 |
| 20° | 7619.3 | 7445.5 | 7416.6 | 7468.7 | 7289.1 | 7161.6 | 6808.2 | 6524.2 | 6315.7 | 6228.7 |
| 22.5° | 7746.8 | 7636.7 | 7717.9 | 7764.2 | 7752.6 | 7538.2 | 7173.2 | 6842.9 | 6582.2 | 6501.1 |
| 25° | 7885.9 | 7758.4 | 8048.1 | 8204.6 | 8245.1 | 7891.7 | 7607.8 | 7173.2 | 6918.3 | 6866.1 |
| 27.5° | 7955.4 | 8001.8 | 8337.8 | 8668.1 | 8639.1 | 8366.8 | 7984.4 | 7596.2 | 7393.4 | 7300.7 |
| 30° | 8158.2 | 8233.5 | 8743.4 | 9114.2 | 9120.0 | 8853.5 | 8563.8 | 8123.4 | 7897.5 | 7856.9 |
| 32.5° | 8523.2 | 8615.9 | 9160.6 | 9554.6 | 9624.1 | 9421.3 | 9131.6 | 8859.3 | 8627.5 | 8534.8 |
| 35° | 8801.4 | 9038.9 | 9653.1 | 10012.3 | 10197.8 | 10076.1 | 9913.8 | 9629.9 | 9386.6 | 9305.5 |
| 37.5° | 9201.2 | 9531.4 | 10122.4 | 10609.1 | 10817.7 | 10806.1 | 10684.5 | 10377.4 | 10174.6 | 10105.1 |
| 40° | 9774.8 | 10105.1 | 10643.9 | 11287.1 | 11675.3 | 11657.9 | 11588.4 | 11350.8 | 11049.5 | 11014.7 |
| 42.5° | 10383.2 | 10655.5 | 11356.6 | 12092.5 | 12648.7 | 12590.8 | 12405.3 | 12127.2 | 11918.6 | 11872.3 |
| 45° | 10974.2 | 11397.2 | 12046.1 | 12990.6 | 13407.7 | 13552.6 | 13332.4 | 12857.3 | 12619.7 | 12590.8 |
| 47.5° | 11715.8 | 12051.9 | 12863.1 | 13709.0 | 14329.0 | 14352.2 | 13975.6 | 13535.2 | 13100.6 | 13193.4 |
| 50° | 12376.4 | 12822.5 | 13645.3 | 14572.4 | 15314.0 | 15047.5 | 14566.6 | 14016.1 | 13703.2 | 13581.6 |
| 52.5° | 13083.3 | 13627.9 | 14584.0 | 15528.4 | 15939.8 | 15673.3 | 14891.0 | 14276.9 | 13801.7 | 13749.6 |
| 55° | 14114.6 | 14398.5 | 15650.1 | 16374.4 | 16507.6 | 15945.6 | 14792.5 | 13923.4 | 13309.2 | 13158.6 |
| 57.5° | 15163.4 | 15493.6 | 16588.7 | 17214.5 | 17075.5 | 15794.9 | 14155.2 | 12810.9 | 12005.5 | 11791.2 |
| 60° | 16223.7 | 16629.3 | 17550.6 | 18124.2 | 17405.7 | 14757.8 | 12353.2 | 10620.7 | 9682.1 | 9490.9 |
| 62.5° | 17405.7 | 17933.0 | 18755.8 | 18958.6 | 16426.5 | 12706.6 | 9803.8 | 7665.7 | 6715.5 | 6396.8 |
| 65° | 18454.5 | 18993.3 | 20007.3 | 18784.7 | 14346.4 | 9479.3 | 6338.8 | 4380.4 | 3679.3 | 3424.4 |
| 67.5° | 19317.8 | 19926.2 | 20424.5 | 16623.5 | 10504.9 | 5550.8 | 3302.7 | 2306.1 | 2045.3 | 1952.6 |
| 70° | 20001.5 | 21015.5 | 18686.2 | 12219.9 | 6002.8 | 2705.9 | 1784.6 | 1518.1 | 1483.3 | 1460.1 |
| 72.5° | 19404.7 | 19271.4 | 13952.4 | 7051.5 | 2630.6 | 1489.1 | 1292.1 | 1251.5 | 1245.7 | 1251.5 |
| 75° | 15870.3 | 14155.2 | 8343.6 | 3065.1 | 1321.1 | 1077.7 | 1071.9 | 1054.5 | 1083.5 | 1083.5 |
| 77.5° | 7700.5 | 6732.8 | 3488.1 | 1315.3 | 869.1 | 846.0 | 874.9 | 874.9 | 874.9 | 874.9 |
| 80° | 1784.6 | 1975.8 | 1245.7 | 799.6 | 631.6 | 631.6 | 695.3 | 701.1 | 672.1 | 660.5 |
| 82.5° | 608.4 | 811.2 | 683.7 | 504.1 | 417.2 | 469.3 | 527.3 | 538.9 | 446.2 | 451.9 |
| 85° | 301.3 | 475.1 | 370.8 | 289.7 | 214.4 | 289.7 | 341.9 | 359.2 | 307.1 | 295.5 |
| 87.5° | 139.1 | 208.6 | 139.1 | 98.5 | 75.3 | 104.3 | 98.5 | 81.1 | 46.4 | 46.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)