

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: P481382

Luminaire Tested: **IFLD-L-SA7D-760-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481382
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-760-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

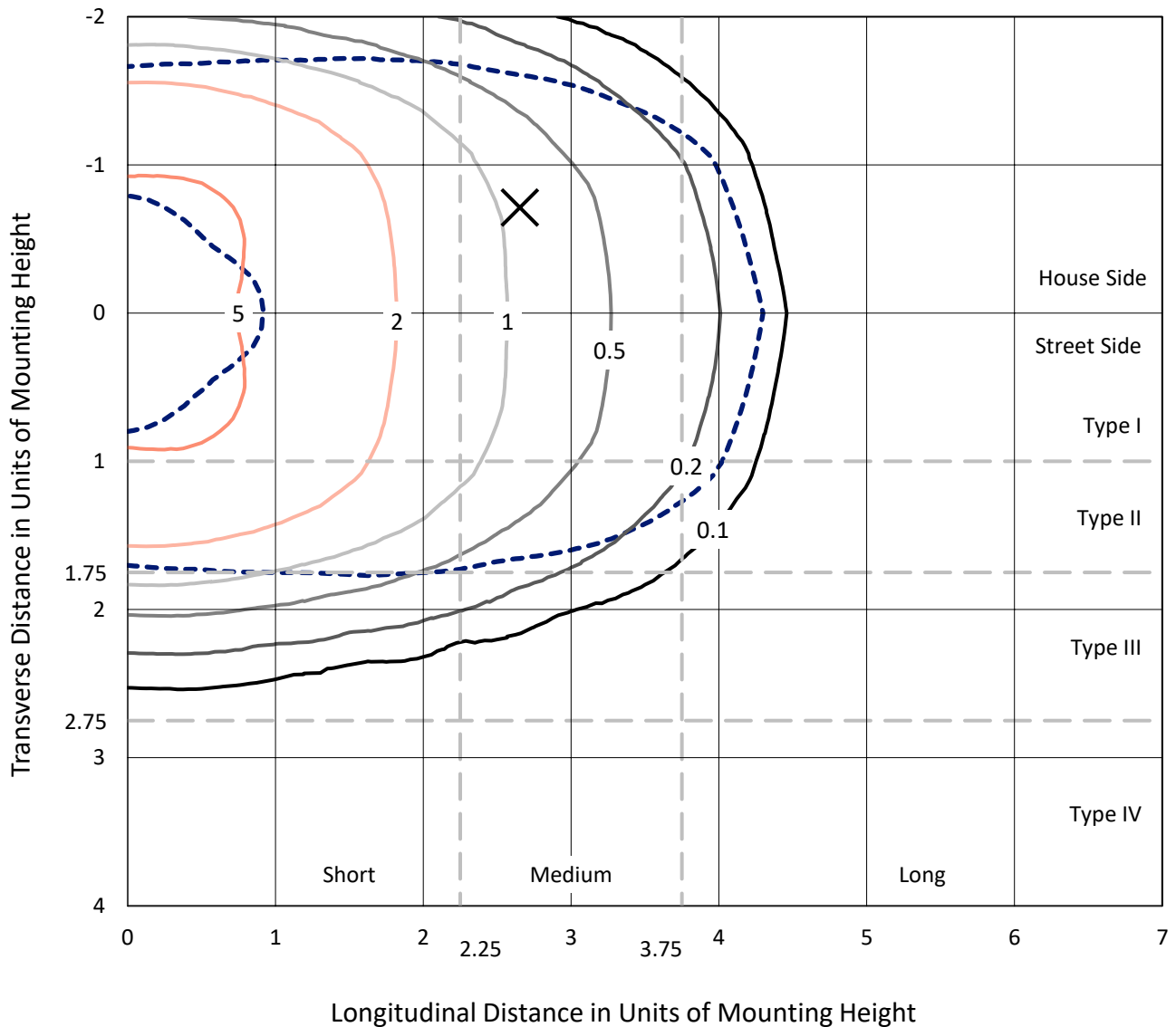
Lumens per Lamp: N/A
Luminaire Lumens: 51394.4 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 422.6
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

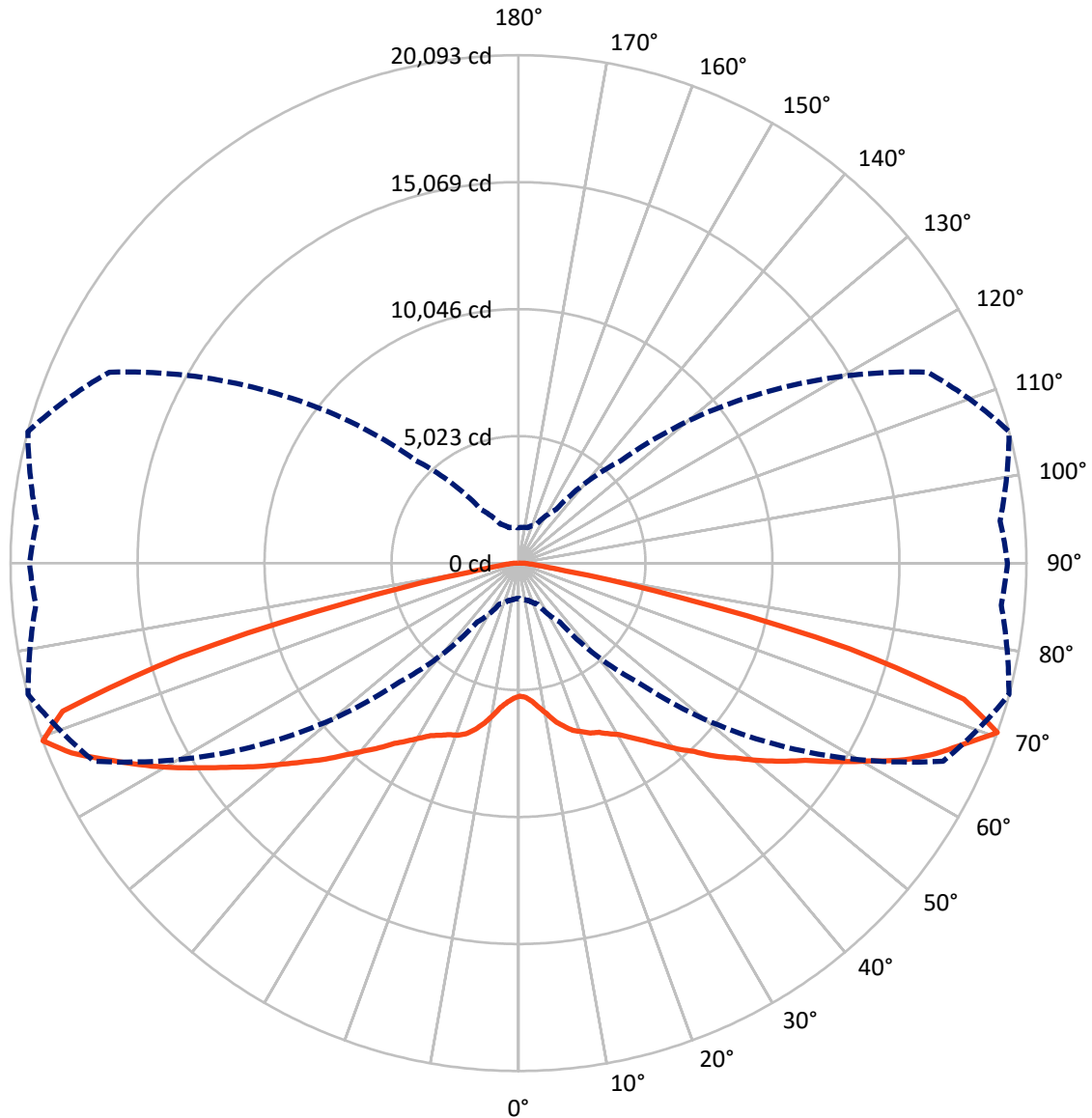
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 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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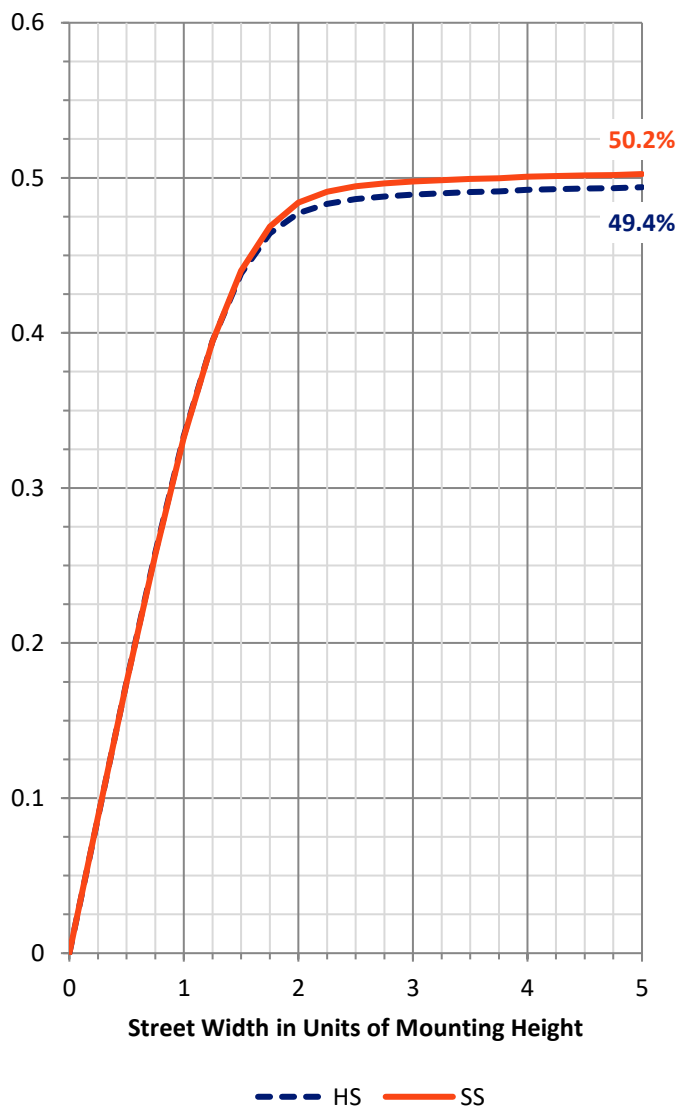
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 25514.4 | 0.0 | 25514.4 |
| | % Fixture | 49.6 | 0.0 | 49.6 |
| Street Side | Lumens | 25880.0 | 0.0 | 25880.0 |
| | % Fixture | 50.4 | 0.0 | 50.4 |
| Total | Lumens | 51394.4 | 0.0 | 51394.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 523.8 | 1.0 |
| 10°-20° | 1783.6 | 3.5 |
| 20°-30° | 3453.6 | 6.7 |
| 30°-40° | 5841.4 | 11.4 |
| 40°-50° | 9318.8 | 18.1 |
| 50°-60° | 12755.4 | 24.8 |
| 60°-70° | 12022.8 | 23.4 |
| 70°-80° | 5296.4 | 10.3 |
| 80°-90° | 398.5 | 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° | 51394.4 | 100.0 |
| 0°-180° | 51394.4 | 100.0 |

Coefficient of Utilization

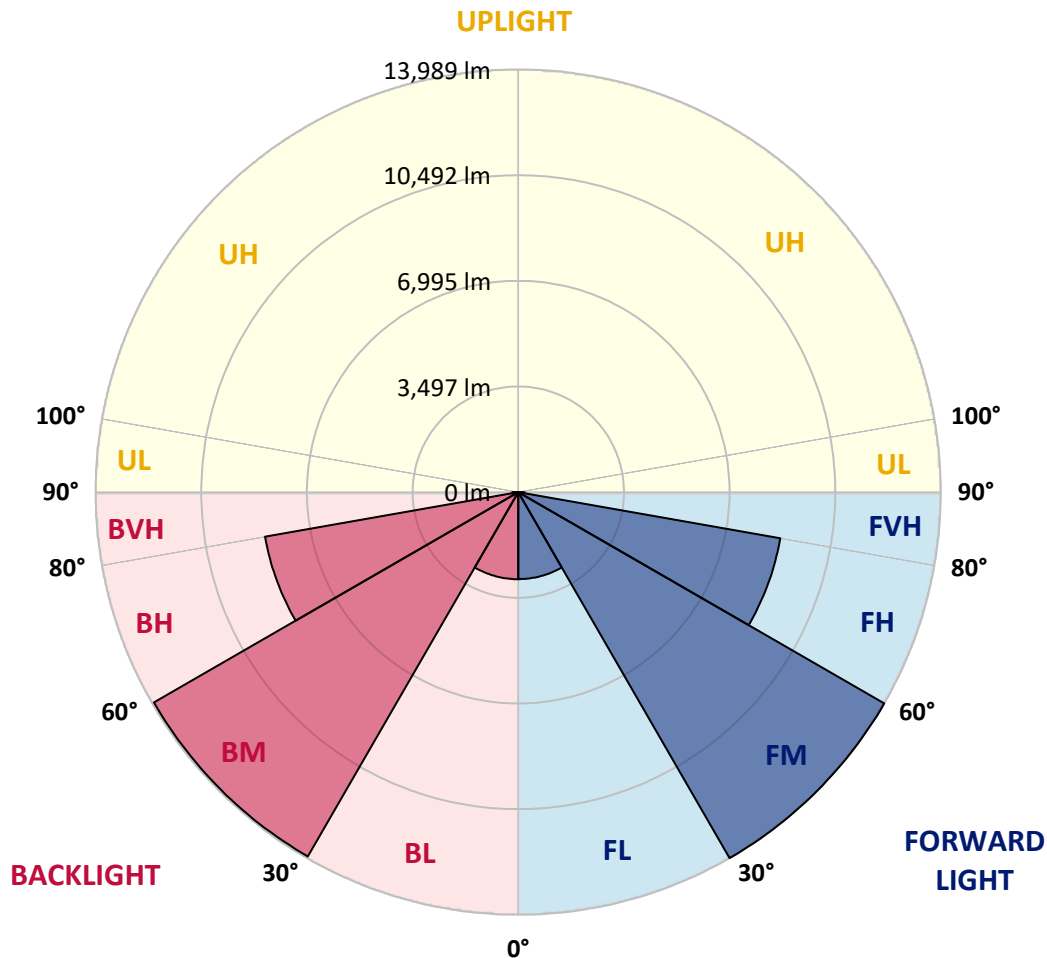


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2878.9 | 5.6 | | | |
| FM (30°-60°) | 13989.1 | 27.2 | | | |
| FH (60°-80°) | 8808.4 | 17.1 | | | G4/12000 |
| FVH (80°-90°) | 203.6 | 0.4 | | | G2/225 |
| BL (0°-30°) | 2882.0 | 5.6 | B4/5000 | | |
| BM (30°-60°) | 13926.6 | 27.1 | B5 | | |
| BH (60°-80°) | 8510.8 | 16.6 | B5 | | G5 |
| BVH (80°-90°) | 194.9 | 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° | 5262.7 | 5262.7 | 5262.7 | 5262.7 | 5262.7 | 5262.7 | 5262.7 | 5262.7 | 5262.7 | 5262.7 | 5262.7 |
| 2.5° | 5229.5 | 5229.5 | 5224.0 | 5251.7 | 5279.4 | 5290.4 | 5312.6 | 5318.1 | 5351.4 | 5323.7 | 5379.1 |
| 5° | 5212.9 | 5207.3 | 5251.7 | 5318.1 | 5318.1 | 5390.1 | 5434.5 | 5495.4 | 5512.0 | 5545.3 | 5556.3 |
| 7.5° | 5329.2 | 5318.1 | 5296.0 | 5368.0 | 5428.9 | 5539.7 | 5600.7 | 5705.9 | 5744.7 | 5789.0 | 5838.9 |
| 10° | 5401.2 | 5401.2 | 5379.1 | 5506.5 | 5561.9 | 5711.4 | 5844.4 | 5949.7 | 6099.2 | 6149.1 | 6154.6 |
| 12.5° | 5412.3 | 5428.9 | 5495.4 | 5661.6 | 5816.7 | 6010.6 | 6110.3 | 6309.7 | 6459.3 | 6553.5 | 6586.7 |
| 15° | 5578.5 | 5545.3 | 5617.3 | 5844.4 | 6071.5 | 6243.3 | 6420.5 | 6564.6 | 6780.6 | 6902.5 | 6980.0 |
| 17.5° | 5728.1 | 5694.8 | 5827.8 | 6099.2 | 6331.9 | 6597.8 | 6752.9 | 6908.0 | 7063.1 | 7173.9 | 7179.5 |
| 20° | 5966.3 | 5994.0 | 6110.3 | 6403.9 | 6708.6 | 6941.3 | 7118.5 | 7146.2 | 7223.8 | 7384.4 | 7356.7 |
| 22.5° | 6259.9 | 6237.7 | 6481.5 | 6802.8 | 7135.2 | 7329.0 | 7428.8 | 7356.7 | 7318.0 | 7489.7 | 7528.5 |
| 25° | 6553.5 | 6620.0 | 6841.6 | 7140.7 | 7539.6 | 7799.9 | 7827.6 | 7628.2 | 7484.2 | 7545.1 | 7528.5 |
| 27.5° | 7002.2 | 7013.3 | 7246.0 | 7600.5 | 8004.9 | 8232.0 | 8215.4 | 7932.9 | 7655.9 | 7661.4 | 7672.5 |
| 30° | 7578.3 | 7522.9 | 7777.8 | 8099.1 | 8497.9 | 8702.9 | 8730.6 | 8326.2 | 7955.0 | 7844.2 | 7871.9 |
| 32.5° | 8132.3 | 8198.8 | 8420.4 | 8786.0 | 9079.6 | 9195.9 | 9135.0 | 8774.9 | 8293.0 | 8143.4 | 8160.0 |
| 35° | 8841.4 | 8830.3 | 9135.0 | 9445.2 | 9666.8 | 9689.0 | 9639.1 | 9112.8 | 8658.6 | 8464.7 | 8387.1 |
| 37.5° | 9600.3 | 9700.0 | 9899.5 | 10154.3 | 10387.0 | 10398.0 | 10126.6 | 9705.6 | 9146.1 | 8824.8 | 8918.9 |
| 40° | 10447.9 | 10558.7 | 10702.7 | 11073.9 | 11245.6 | 11068.4 | 10791.4 | 10220.8 | 9639.1 | 9356.6 | 9400.9 |
| 42.5° | 11195.8 | 11245.6 | 11539.2 | 11976.9 | 12060.0 | 11982.4 | 11572.5 | 10880.0 | 10204.2 | 9893.9 | 9916.1 |
| 45° | 11882.7 | 11949.2 | 12331.4 | 12724.7 | 12918.6 | 12785.7 | 12309.3 | 11650.0 | 10863.4 | 10597.5 | 10492.2 |
| 47.5° | 12514.2 | 12647.2 | 13018.3 | 13422.7 | 13721.9 | 13733.0 | 13145.7 | 12348.0 | 11517.1 | 11168.1 | 11162.5 |
| 50° | 12940.8 | 13134.7 | 13500.3 | 13960.1 | 14397.7 | 14569.5 | 13982.2 | 13123.6 | 12231.7 | 11860.5 | 11821.8 |
| 52.5° | 13173.4 | 13372.9 | 13738.5 | 14453.1 | 14940.6 | 15206.5 | 14929.5 | 13849.3 | 13068.2 | 12680.4 | 12619.5 |
| 55° | 12890.9 | 13023.9 | 13622.2 | 14624.9 | 15378.3 | 15815.9 | 15633.1 | 14852.0 | 13899.2 | 13583.4 | 13638.8 |
| 57.5° | 11688.8 | 11965.8 | 12702.6 | 13954.5 | 15367.2 | 16441.9 | 16425.3 | 15799.3 | 14857.5 | 14558.4 | 14569.5 |
| 60° | 9622.5 | 9855.2 | 10763.7 | 12514.2 | 14746.7 | 16696.7 | 17283.9 | 16718.9 | 15932.2 | 15583.2 | 15572.1 |
| 62.5° | 6791.7 | 7085.3 | 8137.8 | 10049.0 | 12918.6 | 16342.2 | 18270.0 | 17876.7 | 16984.8 | 16729.9 | 16824.1 |
| 65° | 3800.2 | 3977.5 | 4952.5 | 6680.9 | 9844.1 | 14392.2 | 18447.3 | 19078.8 | 18053.9 | 17666.2 | 17682.8 |
| 67.5° | 2033.1 | 2099.6 | 2553.8 | 3506.6 | 6021.7 | 11096.1 | 16657.9 | 19771.3 | 19211.7 | 18541.4 | 18436.2 |
| 70° | 1396.0 | 1418.2 | 1534.5 | 1794.9 | 2847.4 | 6636.6 | 12564.1 | 18535.9 | 20081.5 | 19167.4 | 19344.7 |
| 72.5° | 1180.0 | 1168.9 | 1196.6 | 1224.3 | 1490.2 | 2969.3 | 7373.4 | 14264.8 | 18956.9 | 18613.5 | 18547.0 |
| 75° | 1024.8 | 1019.3 | 1030.4 | 1002.7 | 1035.9 | 1307.4 | 3262.9 | 8891.2 | 13877.0 | 15489.1 | 15738.3 |
| 77.5° | 847.6 | 853.1 | 858.7 | 831.0 | 819.9 | 864.2 | 1312.9 | 3905.5 | 6830.5 | 7539.6 | 8132.3 |
| 80° | 642.6 | 653.7 | 698.0 | 670.3 | 626.0 | 631.5 | 775.6 | 1307.4 | 1961.1 | 1778.2 | 1833.6 |
| 82.5° | 437.6 | 443.2 | 537.4 | 504.1 | 470.9 | 426.6 | 498.6 | 675.8 | 764.5 | 581.7 | 509.7 |
| 85° | 310.2 | 304.7 | 349.0 | 321.3 | 299.1 | 216.0 | 299.1 | 382.2 | 459.8 | 288.1 | 260.4 |
| 87.5° | 72.0 | 72.0 | 144.0 | 116.3 | 110.8 | 88.6 | 116.3 | 149.6 | 199.4 | 127.4 | 116.3 |
| 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° | 5262.7 | 5262.7 | 5262.7 | 5262.7 | 5262.7 | 5262.7 | 5262.7 | 5262.7 | 5262.7 | 5262.7 |
| 2.5° | 5362.4 | 5312.6 | 5312.6 | 5301.5 | 5257.2 | 5246.1 | 5207.3 | 5218.4 | 5190.7 | 5163.0 |
| 5° | 5550.8 | 5484.3 | 5484.3 | 5390.1 | 5301.5 | 5290.4 | 5246.1 | 5246.1 | 5201.8 | 5212.9 |
| 7.5° | 5811.2 | 5750.2 | 5650.5 | 5567.4 | 5445.5 | 5395.7 | 5312.6 | 5301.5 | 5290.4 | 5268.3 |
| 10° | 6121.4 | 6043.8 | 5944.1 | 5772.4 | 5672.7 | 5578.5 | 5495.4 | 5379.1 | 5351.4 | 5356.9 |
| 12.5° | 6542.4 | 6420.5 | 6204.5 | 6054.9 | 5927.5 | 5805.6 | 5683.8 | 5512.0 | 5473.2 | 5489.9 |
| 15° | 6841.6 | 6686.4 | 6470.4 | 6415.0 | 6243.3 | 6093.7 | 5894.3 | 5700.4 | 5633.9 | 5617.3 |
| 17.5° | 7085.3 | 6957.9 | 6830.5 | 6747.4 | 6608.9 | 6426.1 | 6149.1 | 5927.5 | 5777.9 | 5761.3 |
| 20° | 7284.7 | 7118.5 | 7090.8 | 7140.7 | 6969.0 | 6847.1 | 6509.2 | 6237.7 | 6038.3 | 5955.2 |
| 22.5° | 7406.6 | 7301.3 | 7378.9 | 7423.2 | 7412.1 | 7207.2 | 6858.2 | 6542.4 | 6293.1 | 6215.6 |
| 25° | 7539.6 | 7417.7 | 7694.7 | 7844.2 | 7883.0 | 7545.1 | 7273.6 | 6858.2 | 6614.4 | 6564.6 |
| 27.5° | 7606.0 | 7650.3 | 7971.7 | 8287.4 | 8259.7 | 7999.4 | 7633.7 | 7262.6 | 7068.7 | 6980.0 |
| 30° | 7799.9 | 7871.9 | 8359.4 | 8714.0 | 8719.5 | 8464.7 | 8187.7 | 7766.7 | 7550.6 | 7511.9 |
| 32.5° | 8148.9 | 8237.6 | 8758.3 | 9135.0 | 9201.5 | 9007.6 | 8730.6 | 8470.2 | 8248.6 | 8160.0 |
| 35° | 8414.8 | 8642.0 | 9229.2 | 9572.6 | 9749.9 | 9633.6 | 9478.5 | 9207.0 | 8974.3 | 8896.8 |
| 37.5° | 8797.1 | 9112.8 | 9677.9 | 10143.2 | 10342.7 | 10331.6 | 10215.2 | 9921.6 | 9727.7 | 9661.3 |
| 40° | 9345.5 | 9661.3 | 10176.5 | 10791.4 | 11162.5 | 11145.9 | 11079.4 | 10852.3 | 10564.2 | 10531.0 |
| 42.5° | 9927.2 | 10187.5 | 10857.8 | 11561.4 | 12093.2 | 12037.8 | 11860.5 | 11594.6 | 11395.2 | 11350.9 |
| 45° | 10492.2 | 10896.6 | 11517.1 | 12420.0 | 12818.9 | 12957.4 | 12746.9 | 12292.6 | 12065.5 | 12037.8 |
| 47.5° | 11201.3 | 11522.6 | 12298.2 | 13107.0 | 13699.7 | 13721.9 | 13361.8 | 12940.8 | 12525.3 | 12613.9 |
| 50° | 11832.8 | 12259.4 | 13046.0 | 13932.4 | 14641.5 | 14386.6 | 13926.8 | 13400.6 | 13101.4 | 12985.1 |
| 52.5° | 12508.7 | 13029.4 | 13943.5 | 14846.4 | 15239.8 | 14984.9 | 14237.1 | 13649.9 | 13195.6 | 13145.7 |
| 55° | 13494.8 | 13766.2 | 14962.8 | 15655.2 | 15782.7 | 15245.3 | 14142.9 | 13311.9 | 12724.7 | 12580.7 |
| 57.5° | 14497.4 | 14813.2 | 15860.2 | 16458.5 | 16325.5 | 15101.3 | 13533.5 | 12248.3 | 11478.3 | 11273.3 |
| 60° | 15511.2 | 15899.0 | 16779.8 | 17328.2 | 16641.3 | 14109.7 | 11810.7 | 10154.3 | 9256.9 | 9074.1 |
| 62.5° | 16641.3 | 17145.4 | 17932.1 | 18126.0 | 15705.1 | 12148.6 | 9373.2 | 7329.0 | 6420.5 | 6115.8 |
| 65° | 17644.0 | 18159.2 | 19128.6 | 17959.8 | 13716.3 | 9063.0 | 6060.5 | 4188.0 | 3517.7 | 3274.0 |
| 67.5° | 18469.4 | 19051.1 | 19527.5 | 15893.4 | 10043.5 | 5307.0 | 3157.6 | 2204.8 | 1955.5 | 1866.9 |
| 70° | 19123.1 | 20092.6 | 17865.6 | 11683.3 | 5739.1 | 2587.0 | 1706.2 | 1451.4 | 1418.2 | 1396.0 |
| 72.5° | 18552.5 | 18425.1 | 13339.6 | 6741.8 | 2515.0 | 1423.7 | 1235.4 | 1196.6 | 1191.0 | 1196.6 |
| 75° | 15173.3 | 13533.5 | 7977.2 | 2930.5 | 1263.1 | 1030.4 | 1024.8 | 1008.2 | 1035.9 | 1035.9 |
| 77.5° | 7362.3 | 6437.2 | 3334.9 | 1257.5 | 831.0 | 808.8 | 836.5 | 836.5 | 836.5 | 836.5 |
| 80° | 1706.2 | 1889.0 | 1191.0 | 764.5 | 603.8 | 603.8 | 664.8 | 670.3 | 642.6 | 631.5 |
| 82.5° | 581.7 | 775.6 | 653.7 | 482.0 | 398.9 | 448.7 | 504.1 | 515.2 | 426.6 | 432.1 |
| 85° | 288.1 | 454.3 | 354.5 | 277.0 | 205.0 | 277.0 | 326.8 | 343.5 | 293.6 | 282.5 |
| 87.5° | 133.0 | 199.4 | 133.0 | 94.2 | 72.0 | 99.7 | 94.2 | 77.6 | 44.3 | 44.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)