

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: P482869

Luminaire Tested: **IFLD-L-SA8D-740-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482869
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-740-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

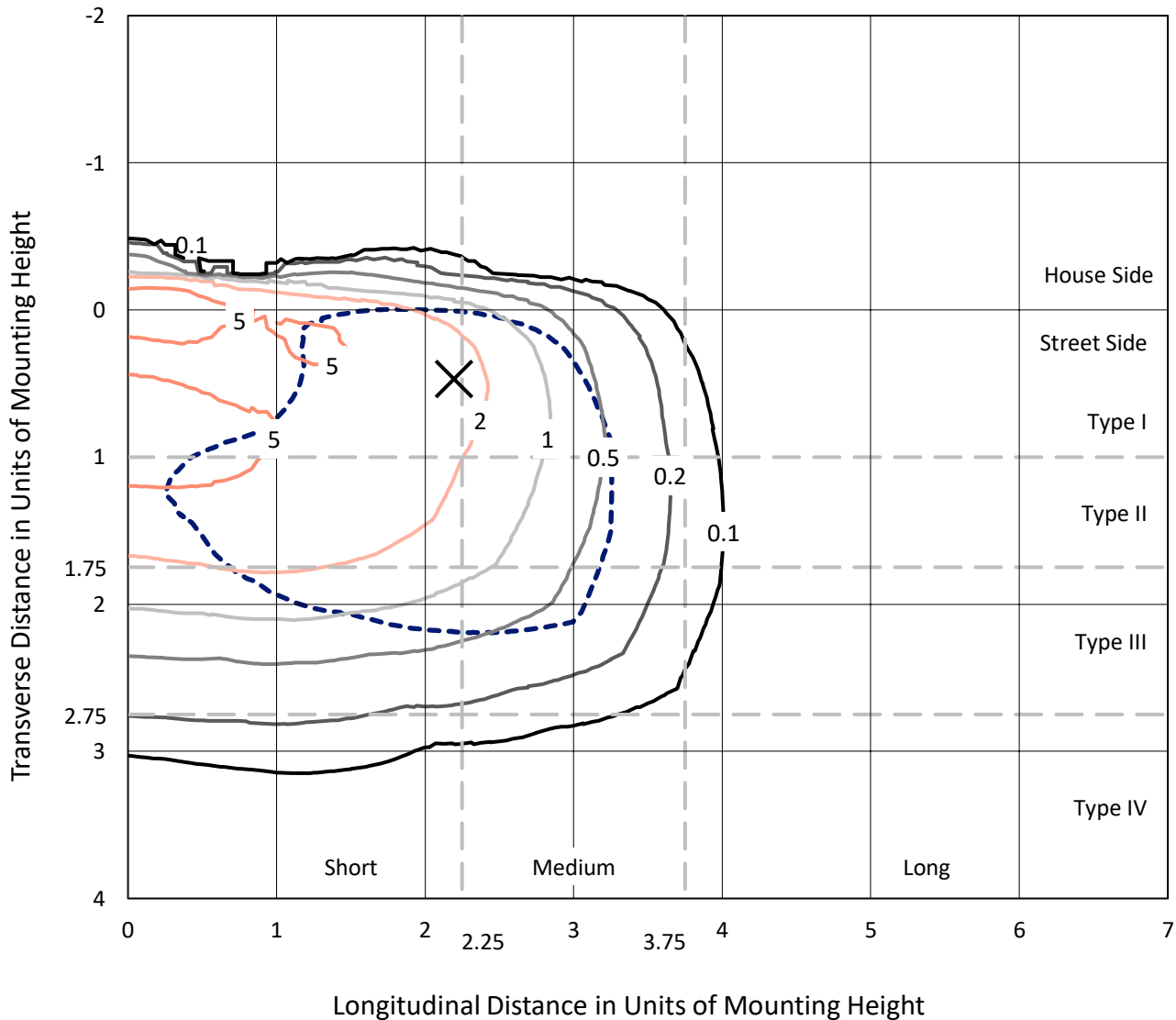
Lumens per Lamp: N/A
Luminaire Lumens: 39961 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

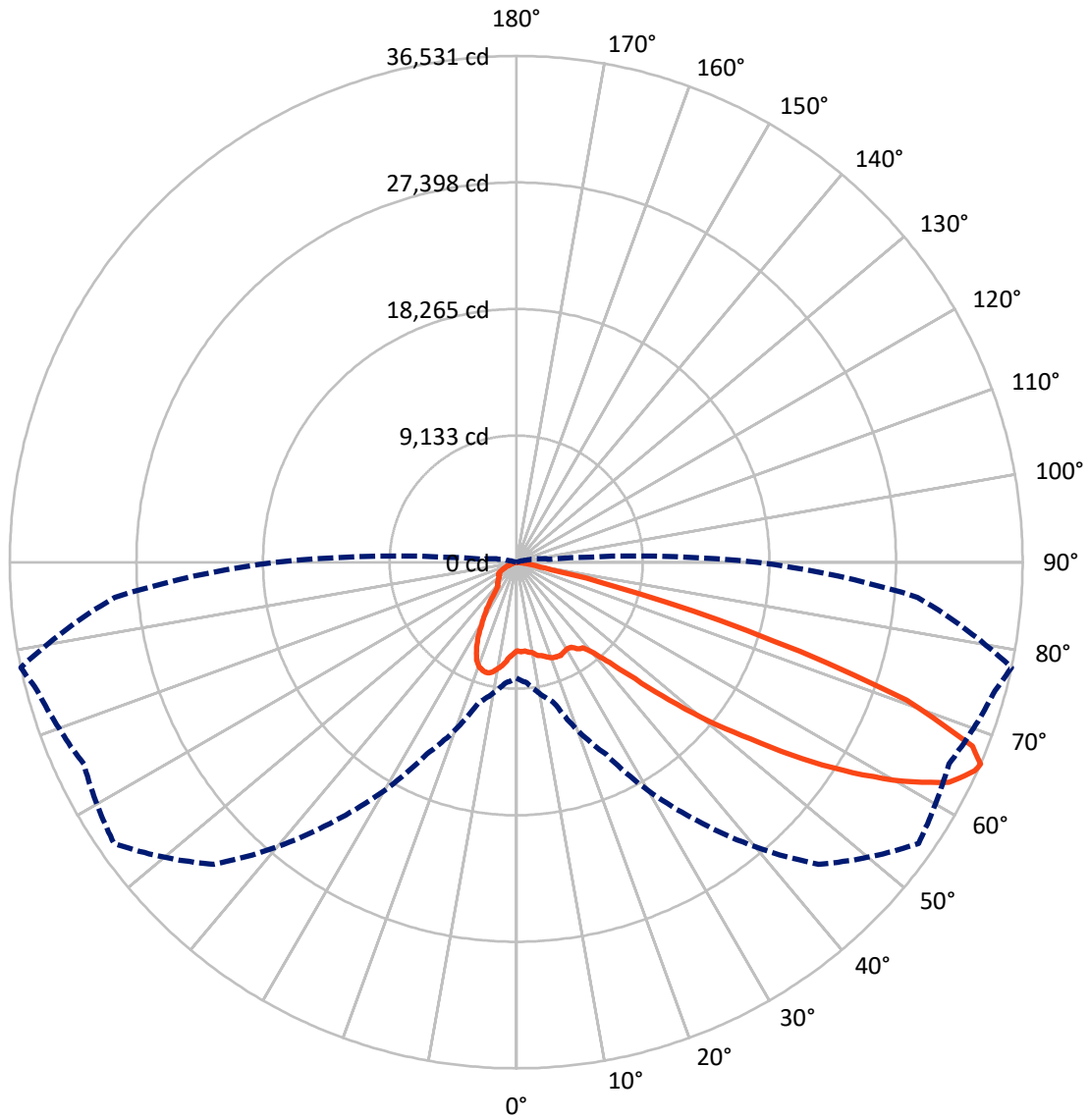
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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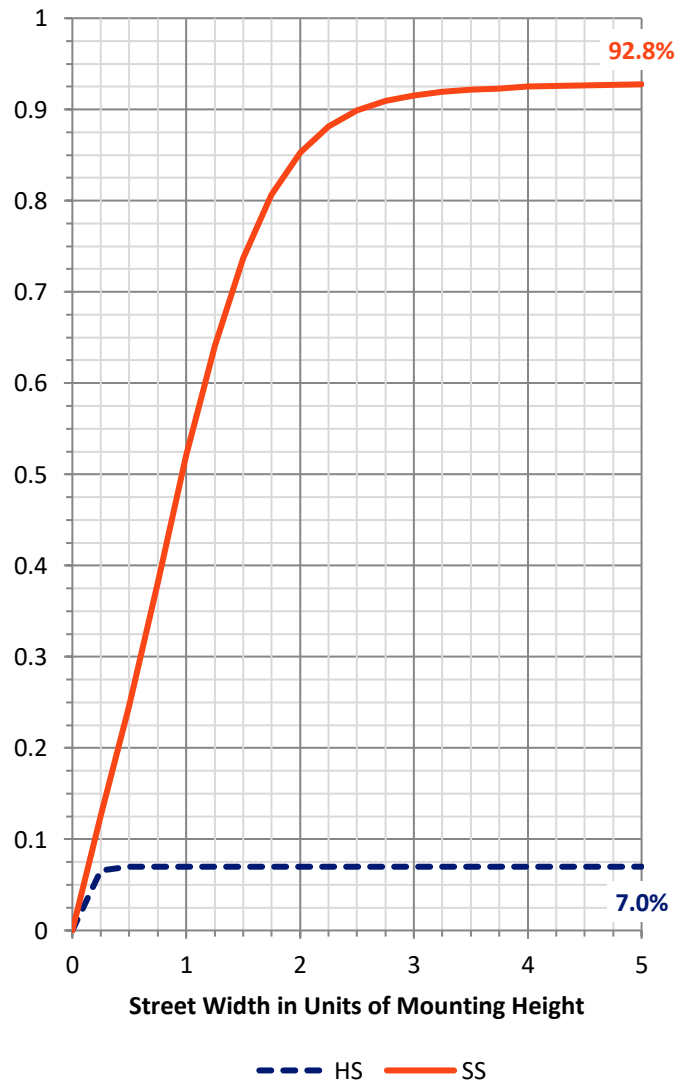
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2809.4 | 0.0 | 2809.4 |
| | % Fixture | 7.0 | 0.0 | 7.0 |
| Street Side | Lumens | 37151.6 | 0.0 | 37151.6 |
| | % Fixture | 93.0 | 0.0 | 93.0 |
| Total | Lumens | 39961.0 | 0.0 | 39961.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 585.5 | 1.5 |
| 10°-20° | 1321.8 | 3.3 |
| 20°-30° | 1889.3 | 4.7 |
| 30°-40° | 3233.9 | 8.1 |
| 40°-50° | 5836.8 | 14.6 |
| 50°-60° | 9981.8 | 25.0 |
| 60°-70° | 12285.8 | 30.7 |
| 70°-80° | 4644.7 | 11.6 |
| 80°-90° | 181.4 | 0.5 |
| 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° | 39961.0 | 100.0 |
| 0°-180° | 39961.0 | 100.0 |

Coefficient of Utilization

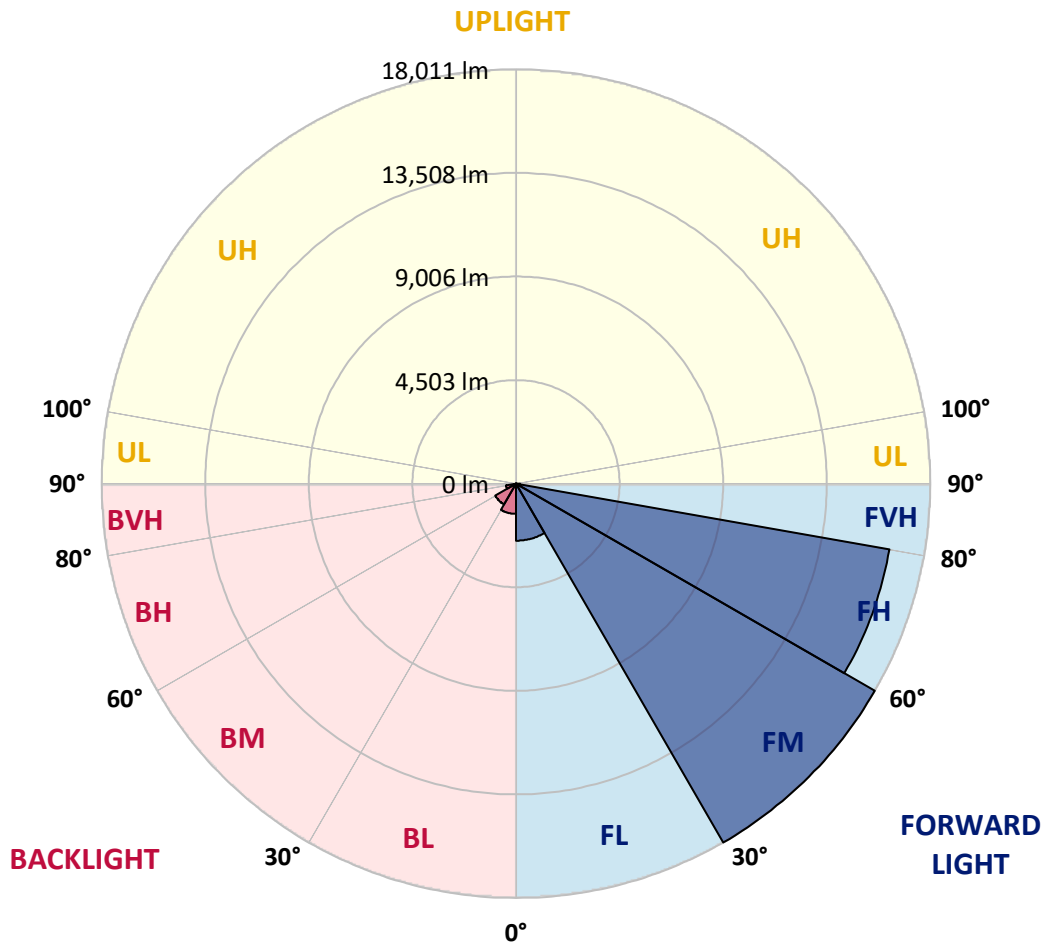


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2480.8 | 6.2 | | | |
| FM (30°-60°) | 18011.2 | 45.1 | | | |
| FH (60°-80°) | 16485.4 | 41.3 | | | G5 |
| FVH (80°-90°) | 174.2 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1315.8 | 3.3 | B3/2500 | | |
| BM (30°-60°) | 1041.3 | 2.6 | B2/2500 | | |
| BH (60°-80°) | 445.1 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6400.5 | 6400.5 | 6400.5 | 6400.5 | 6400.5 | 6400.5 | 6400.5 | 6400.5 | 6400.5 | 6400.5 | 6400.5 |
| 2.5° | 5887.2 | 5832.9 | 5887.2 | 5965.7 | 6008.0 | 6044.2 | 6171.0 | 6279.7 | 6394.4 | 6472.9 | 6448.8 |
| 5° | 5458.5 | 5561.1 | 5573.2 | 5597.4 | 5663.8 | 5881.2 | 5953.6 | 6140.8 | 6424.6 | 6448.8 | 6557.4 |
| 7.5° | 5120.4 | 5090.2 | 5168.7 | 5325.7 | 5494.7 | 5621.5 | 5832.9 | 6158.9 | 6454.8 | 6557.4 | 6768.8 |
| 10° | 4631.3 | 4691.7 | 4776.2 | 4933.2 | 5138.5 | 5452.5 | 5826.8 | 6189.1 | 6611.8 | 6648.0 | 7040.5 |
| 12.5° | 4365.6 | 4305.2 | 4438.1 | 4601.1 | 4951.3 | 5241.1 | 5700.0 | 6134.8 | 6708.4 | 6907.7 | 7360.5 |
| 15° | 4148.2 | 4178.4 | 4305.2 | 4413.9 | 4703.7 | 5072.1 | 5609.5 | 6267.6 | 6871.4 | 7010.3 | 7698.7 |
| 17.5° | 4057.6 | 4039.5 | 4136.1 | 4244.8 | 4601.1 | 5017.7 | 5573.2 | 6273.7 | 7016.3 | 7197.5 | 7928.1 |
| 20° | 4099.9 | 4136.1 | 4106.0 | 4208.6 | 4432.0 | 4854.7 | 5627.6 | 6388.4 | 7125.0 | 7372.6 | 8175.7 |
| 22.5° | 4764.1 | 4715.8 | 4474.3 | 4281.1 | 4293.1 | 4788.3 | 5585.3 | 6460.8 | 7221.6 | 7420.9 | 8344.7 |
| 25° | 6497.1 | 6237.4 | 5639.6 | 4897.0 | 4407.9 | 4607.1 | 5537.0 | 6436.7 | 7203.5 | 7451.1 | 8447.4 |
| 27.5° | 8242.1 | 8018.7 | 7433.0 | 6279.7 | 4872.8 | 4534.7 | 5367.9 | 6454.8 | 7113.0 | 7342.4 | 8278.3 |
| 30° | 10083.7 | 10204.5 | 9335.0 | 7964.3 | 6092.5 | 4933.2 | 5259.2 | 6358.2 | 7052.6 | 7245.8 | 8314.6 |
| 32.5° | 11973.7 | 11925.4 | 11400.1 | 9914.7 | 7837.5 | 5814.8 | 5434.3 | 6454.8 | 7131.1 | 7318.3 | 8525.9 |
| 35° | 13453.0 | 13284.0 | 12752.6 | 11412.1 | 9280.7 | 7143.1 | 6038.2 | 6913.7 | 7475.2 | 7698.7 | 8827.8 |
| 37.5° | 14183.6 | 14256.1 | 13948.2 | 12782.8 | 10862.7 | 8374.9 | 6792.9 | 6913.7 | 7583.9 | 7843.6 | 9316.9 |
| 40° | 14751.2 | 14968.6 | 14853.9 | 14479.5 | 12432.6 | 9763.7 | 7626.2 | 7342.4 | 8133.4 | 8622.5 | 10234.7 |
| 42.5° | 15433.5 | 15330.9 | 16007.2 | 15663.0 | 14485.6 | 11514.8 | 9087.4 | 8362.9 | 9431.6 | 9902.6 | 11611.4 |
| 45° | 15795.8 | 16188.3 | 16701.6 | 17142.3 | 16387.6 | 13700.6 | 10995.5 | 10168.3 | 11418.2 | 12015.9 | 13658.3 |
| 47.5° | 16725.7 | 16882.7 | 17716.0 | 18271.5 | 17933.3 | 16200.4 | 13893.8 | 12806.9 | 13918.0 | 14859.9 | 16001.1 |
| 50° | 17269.1 | 17057.8 | 18223.2 | 19068.5 | 19261.7 | 18271.5 | 16490.2 | 15644.9 | 16888.7 | 18090.3 | 18193.0 |
| 52.5° | 16792.1 | 17395.9 | 18561.3 | 20076.9 | 20614.3 | 20119.2 | 19539.5 | 19171.2 | 20046.7 | 21157.7 | 20662.6 |
| 55° | 15119.6 | 15530.2 | 18368.1 | 21181.9 | 22914.8 | 22685.4 | 23222.8 | 22981.3 | 23862.8 | 25040.3 | 23548.8 |
| 57.5° | 13773.1 | 14286.3 | 16780.1 | 21755.5 | 25058.4 | 25734.7 | 26410.9 | 26260.0 | 27322.7 | 28681.3 | 25994.3 |
| 60° | 12933.7 | 13229.6 | 15632.8 | 21610.6 | 26326.4 | 28886.6 | 30414.2 | 29351.5 | 31084.5 | 32123.0 | 27908.4 |
| 62.5° | 11478.5 | 11665.7 | 13960.2 | 19690.5 | 26706.8 | 31114.7 | 33705.0 | 32261.9 | 33765.4 | 35033.4 | 29285.1 |
| 65° | 9202.2 | 9709.4 | 11605.4 | 16816.3 | 24194.9 | 31525.3 | 35758.0 | 34061.3 | 35516.5 | 36349.7 | 29701.7 |
| 66° | 8374.9 | 8743.3 | 10482.3 | 15294.7 | 22763.9 | 30842.9 | 35413.8 | 34435.6 | 35770.1 | 36530.9 | 29061.7 |
| 67.5° | 6949.9 | 7269.9 | 8652.7 | 13127.0 | 19835.4 | 29339.4 | 35655.4 | 34182.0 | 35963.3 | 35498.4 | 28204.3 |
| 70° | 4601.1 | 4806.4 | 5917.4 | 8876.1 | 13815.3 | 24001.7 | 33071.0 | 32201.5 | 31615.8 | 29870.8 | 22051.4 |
| 72.5° | 2149.6 | 2445.5 | 3695.4 | 5380.0 | 8103.2 | 16792.1 | 26966.4 | 25801.1 | 22172.1 | 19382.5 | 13911.9 |
| 75° | 972.1 | 1105.0 | 2028.8 | 3085.5 | 3635.0 | 8701.0 | 17395.9 | 15711.3 | 11037.8 | 9165.9 | 6092.5 |
| 77.5° | 525.3 | 597.8 | 990.3 | 1467.3 | 1322.4 | 3049.3 | 8610.4 | 7161.3 | 3478.0 | 2548.1 | 1769.2 |
| 80° | 404.6 | 477.0 | 827.2 | 839.3 | 489.1 | 791.0 | 3200.2 | 2216.0 | 869.5 | 658.2 | 422.7 |
| 82.5° | 211.3 | 301.9 | 652.1 | 543.4 | 247.6 | 320.0 | 990.3 | 615.9 | 271.7 | 217.4 | 181.1 |
| 85° | 84.5 | 132.8 | 368.3 | 362.3 | 144.9 | 108.7 | 277.8 | 187.2 | 108.7 | 90.6 | 84.5 |
| 87.5° | 6.0 | 6.0 | 199.3 | 138.9 | 90.6 | 30.2 | 42.3 | 42.3 | 54.3 | 48.3 | 60.4 |
| 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° | 6400.5 | 6400.5 | 6400.5 | 6400.5 | 6400.5 | 6400.5 | 6400.5 | 6400.5 | 6400.5 | 6400.5 | 6400.5 |
| 2.5° | 6557.4 | 6629.9 | 6642.0 | 6841.2 | 6883.5 | 6841.2 | 6949.9 | 6931.8 | 6980.1 | 6943.9 | 6877.5 |
| 5° | 6708.4 | 6811.0 | 7010.3 | 7161.3 | 7161.3 | 7040.5 | 6943.9 | 6817.1 | 6629.9 | 6581.6 | 6545.4 |
| 7.5° | 6968.0 | 7294.1 | 7475.2 | 7378.6 | 7185.4 | 6732.6 | 6104.6 | 5645.7 | 5259.2 | 5114.3 | 5047.9 |
| 10° | 7426.9 | 7608.1 | 7819.4 | 7426.9 | 6623.9 | 5663.8 | 4607.1 | 3912.7 | 3369.3 | 3248.5 | 3158.0 |
| 12.5° | 7722.8 | 8012.6 | 8133.4 | 7161.3 | 5585.3 | 4154.3 | 3007.0 | 2222.0 | 1841.6 | 1551.8 | 1503.5 |
| 15° | 8109.3 | 8441.4 | 8193.8 | 6442.7 | 4401.8 | 2723.2 | 1557.8 | 972.1 | 791.0 | 742.7 | 742.7 |
| 17.5° | 8374.9 | 8737.2 | 7946.2 | 5549.1 | 3121.7 | 1449.2 | 772.9 | 670.2 | 658.2 | 664.2 | 652.1 |
| 20° | 8839.9 | 9057.2 | 7571.9 | 4510.5 | 1865.8 | 742.7 | 621.9 | 597.8 | 585.7 | 603.8 | 591.7 |
| 22.5° | 9015.0 | 9214.2 | 6962.0 | 3266.6 | 839.3 | 495.1 | 464.9 | 446.8 | 458.9 | 452.9 | 446.8 |
| 25° | 9002.9 | 9105.6 | 5959.7 | 1871.8 | 247.6 | 193.2 | 175.1 | 175.1 | 163.0 | 169.1 | 163.0 |
| 27.5° | 9093.5 | 8839.9 | 4836.6 | 555.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 9141.8 | 8411.2 | 3441.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 9165.9 | 8187.7 | 2216.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 9353.1 | 7740.9 | 948.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 9479.9 | 7167.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 10005.2 | 6986.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 10687.5 | 6648.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 11635.5 | 6146.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 12891.5 | 5851.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 13827.4 | 5386.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 15016.9 | 5108.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 16429.8 | 5120.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 17716.0 | 5035.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 18374.1 | 4305.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 18235.3 | 3484.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 17752.2 | 2735.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 66° | 17420.1 | 2421.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 16411.7 | 1938.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 13060.5 | 1328.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 8308.5 | 815.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 3828.2 | 374.4 | 12.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 1201.6 | 229.5 | 48.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 314.0 | 144.9 | 48.3 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 163.0 | 102.6 | 42.3 | 18.1 | 12.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 102.6 | 42.3 | 18.1 | 12.1 | 12.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 90.6 | 24.2 | 12.1 | 12.1 | 6.0 | 0.0 | 0.0 | 0.0 | 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)