

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: P482708

Luminaire Tested: **IFLD-L-SA7D-722-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482708
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-722-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

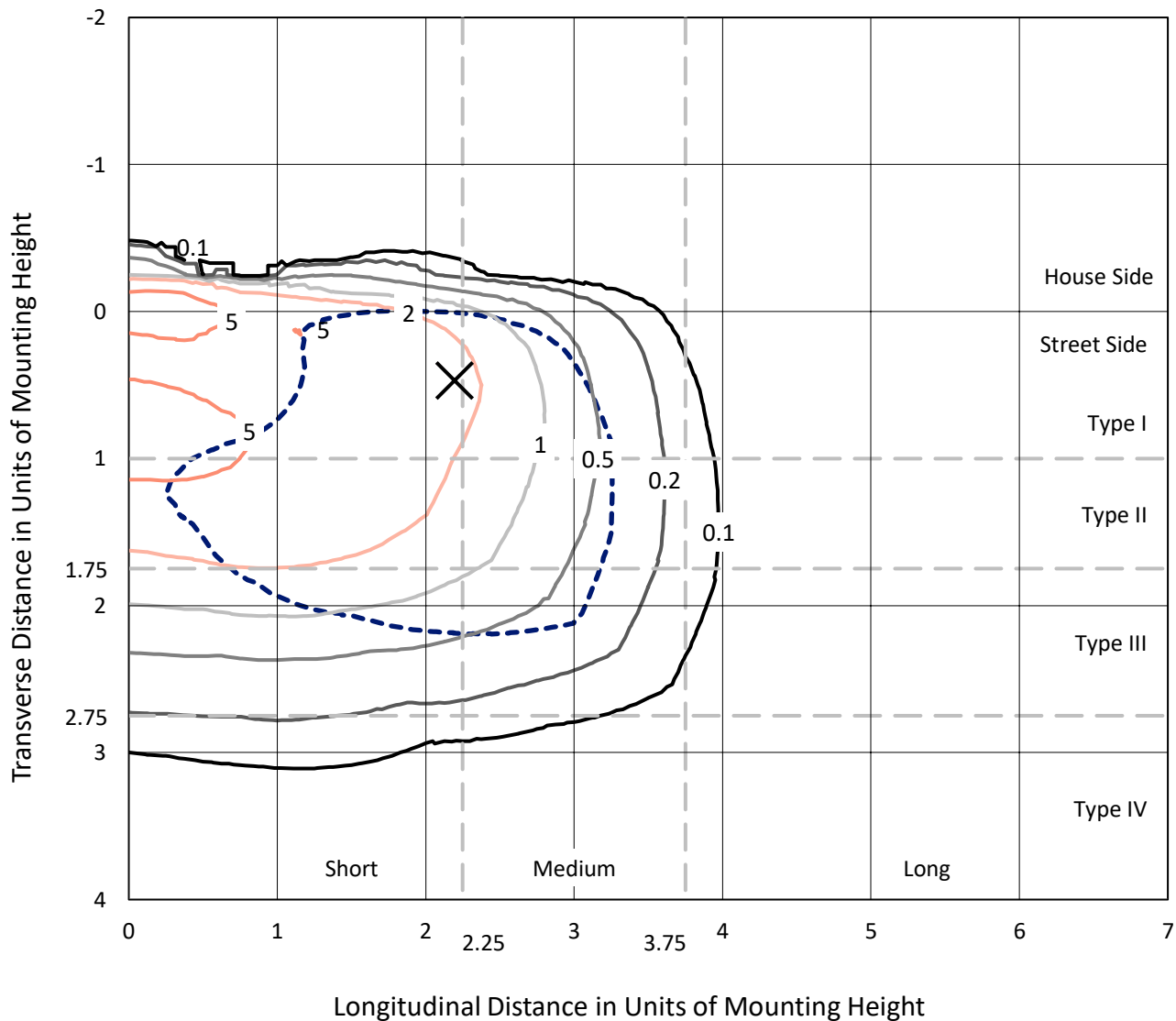
Lumens per Lamp: N/A
Luminaire Lumens: 25755.8 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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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 CATALOG NUMBER: IFLD-L-SA7D-722-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

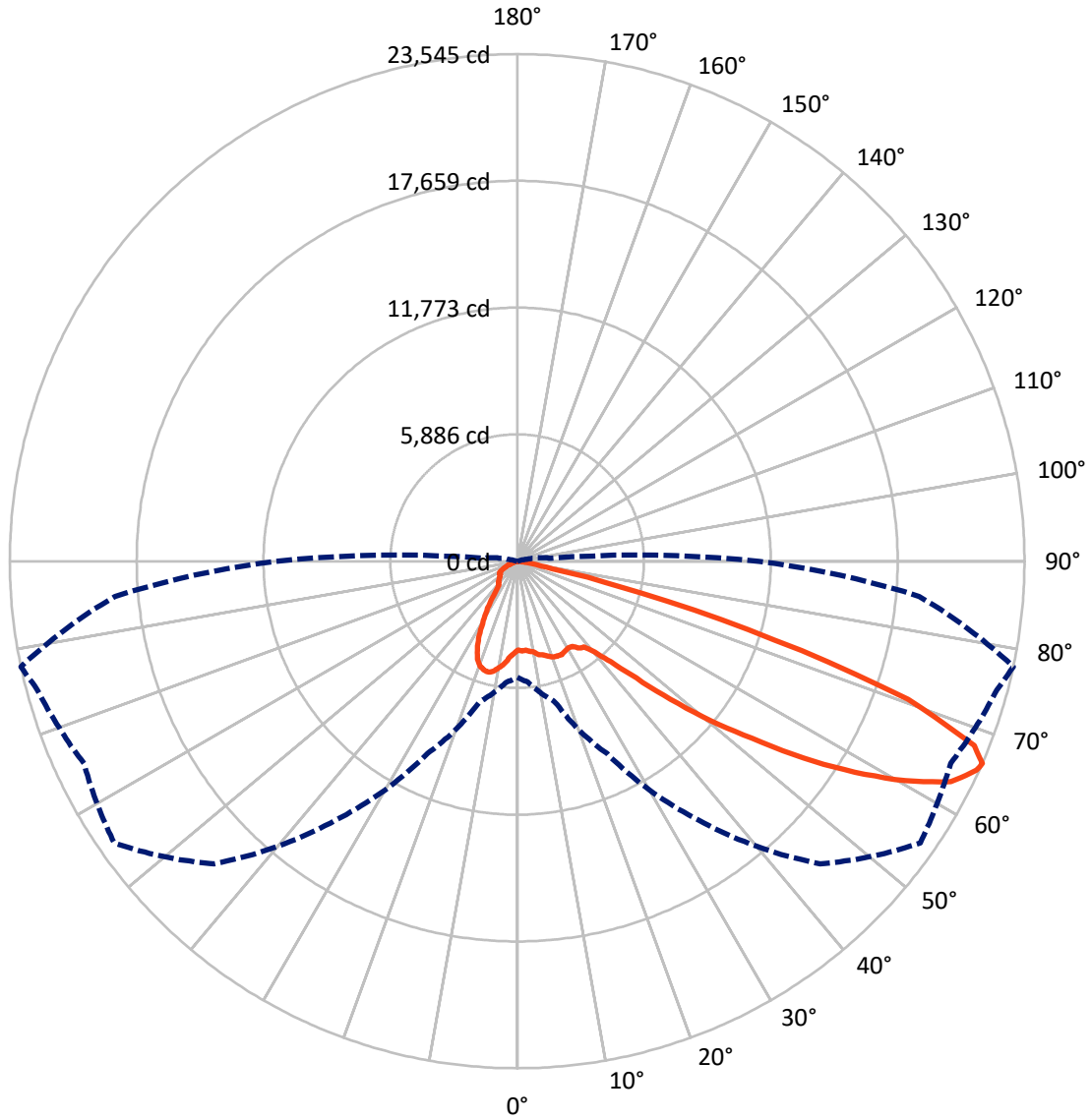
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

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CATALOG NUMBER: IFLD-L-SA7D-722-U-T3R-HSS

Luminous Intensity Polar Plot



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

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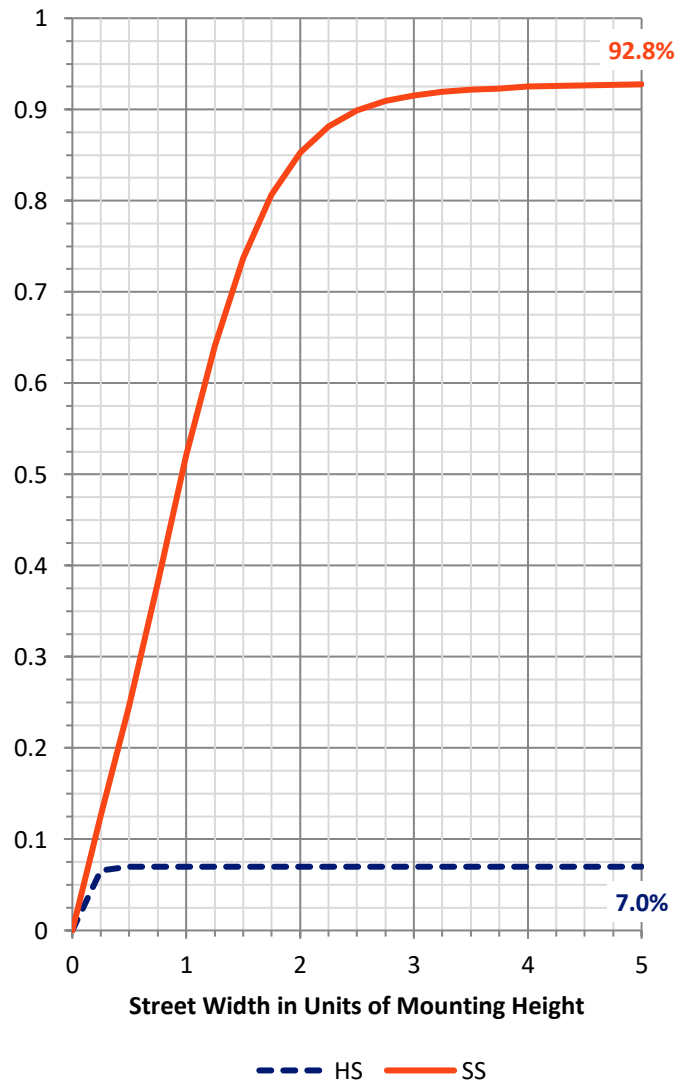
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1810.8 | 0.0 | 1810.8 |
| | % Fixture | 7.0 | 0.0 | 7.0 |
| Street Side | Lumens | 23945.1 | 0.0 | 23945.1 |
| | % Fixture | 93.0 | 0.0 | 93.0 |
| Total | Lumens | 25755.8 | 0.0 | 25755.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 377.4 | 1.5 |
| 10°-20° | 851.9 | 3.3 |
| 20°-30° | 1217.7 | 4.7 |
| 30°-40° | 2084.3 | 8.1 |
| 40°-50° | 3762.0 | 14.6 |
| 50°-60° | 6433.5 | 25.0 |
| 60°-70° | 7918.5 | 30.7 |
| 70°-80° | 2993.6 | 11.6 |
| 80°-90° | 116.9 | 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° | 25755.8 | 100.0 |
| 0°-180° | 25755.8 | 100.0 |

Coefficient of Utilization

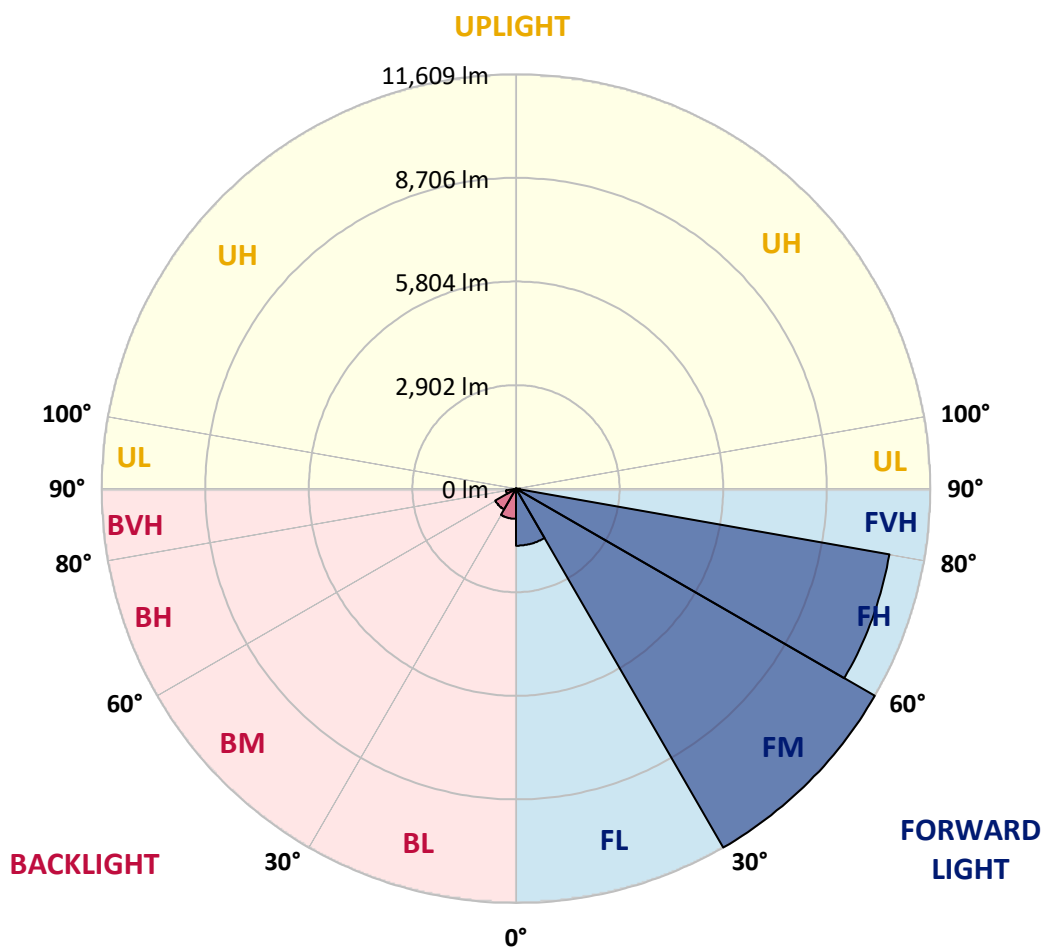


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1598.9 | 6.2 | | | |
| FM (30°-60°) | 11608.7 | 45.1 | | | |
| FH (60°-80°) | 10625.2 | 41.3 | | | G4/12000 |
| FVH (80°-90°) | 112.2 | 0.4 | | | G2/225 |
| BL (0°-30°) | 848.0 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 671.1 | 2.6 | B1/1000 | | |
| BH (60°-80°) | 286.9 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4125.2 | 4125.2 | 4125.2 | 4125.2 | 4125.2 | 4125.2 | 4125.2 | 4125.2 | 4125.2 | 4125.2 | 4125.2 |
| 2.5° | 3794.4 | 3759.4 | 3794.4 | 3845.0 | 3872.3 | 3895.6 | 3977.4 | 4047.4 | 4121.4 | 4171.9 | 4156.4 |
| 5° | 3518.1 | 3584.3 | 3592.1 | 3607.6 | 3650.4 | 3790.6 | 3837.3 | 3957.9 | 4140.8 | 4156.4 | 4226.4 |
| 7.5° | 3300.2 | 3280.7 | 3331.3 | 3432.5 | 3541.5 | 3623.2 | 3759.4 | 3969.6 | 4160.3 | 4226.4 | 4362.6 |
| 10° | 2985.0 | 3023.9 | 3078.4 | 3179.5 | 3311.9 | 3514.2 | 3755.5 | 3989.0 | 4261.5 | 4284.8 | 4537.8 |
| 12.5° | 2813.7 | 2774.8 | 2860.4 | 2965.5 | 3191.2 | 3378.0 | 3673.8 | 3954.0 | 4323.7 | 4452.1 | 4744.0 |
| 15° | 2673.6 | 2693.1 | 2774.8 | 2844.9 | 3031.7 | 3269.1 | 3615.4 | 4039.6 | 4428.8 | 4518.3 | 4962.0 |
| 17.5° | 2615.2 | 2603.6 | 2665.8 | 2735.9 | 2965.5 | 3234.0 | 3592.1 | 4043.5 | 4522.2 | 4639.0 | 5109.9 |
| 20° | 2642.5 | 2665.8 | 2646.4 | 2712.5 | 2856.5 | 3129.0 | 3627.1 | 4117.5 | 4592.3 | 4751.8 | 5269.4 |
| 22.5° | 3070.6 | 3039.4 | 2883.8 | 2759.2 | 2767.0 | 3086.1 | 3599.9 | 4164.2 | 4654.5 | 4782.9 | 5378.4 |
| 25° | 4187.5 | 4020.2 | 3634.9 | 3156.2 | 2841.0 | 2969.4 | 3568.7 | 4148.6 | 4642.8 | 4802.4 | 5444.5 |
| 27.5° | 5312.2 | 5168.2 | 4790.7 | 4047.4 | 3140.6 | 2922.7 | 3459.8 | 4160.3 | 4584.5 | 4732.4 | 5335.6 |
| 30° | 6499.2 | 6577.0 | 6016.6 | 5133.2 | 3926.8 | 3179.5 | 3389.7 | 4098.0 | 4545.5 | 4670.1 | 5358.9 |
| 32.5° | 7717.3 | 7686.2 | 7347.6 | 6390.2 | 5051.5 | 3747.7 | 3502.6 | 4160.3 | 4596.1 | 4716.8 | 5495.1 |
| 35° | 8670.8 | 8561.8 | 8219.3 | 7355.4 | 5981.6 | 4603.9 | 3891.7 | 4456.0 | 4818.0 | 4962.0 | 5689.7 |
| 37.5° | 9141.7 | 9188.4 | 8989.9 | 8238.8 | 7001.2 | 5397.8 | 4378.2 | 4456.0 | 4888.0 | 5055.4 | 6005.0 |
| 40° | 9507.5 | 9647.6 | 9573.7 | 9332.4 | 8013.1 | 6292.9 | 4915.3 | 4732.4 | 5242.2 | 5557.4 | 6596.5 |
| 42.5° | 9947.3 | 9881.1 | 10317.0 | 10095.2 | 9336.3 | 7421.5 | 5857.1 | 5390.1 | 6078.9 | 6382.4 | 7483.8 |
| 45° | 10180.8 | 10433.7 | 10764.5 | 11048.6 | 10562.2 | 8830.4 | 7086.9 | 6553.7 | 7359.3 | 7744.6 | 8803.1 |
| 47.5° | 10780.1 | 10881.3 | 11418.4 | 11776.4 | 11558.5 | 10441.5 | 8954.9 | 8254.4 | 8970.5 | 9577.6 | 10313.1 |
| 50° | 11130.4 | 10994.2 | 11745.3 | 12290.1 | 12414.6 | 11776.4 | 10628.3 | 10083.5 | 10885.2 | 11659.6 | 11725.8 |
| 52.5° | 10822.9 | 11212.1 | 11963.2 | 12940.0 | 13286.4 | 12967.3 | 12593.7 | 12356.3 | 12920.6 | 13636.6 | 13317.5 |
| 55° | 9744.9 | 10009.5 | 11838.7 | 13652.2 | 14769.1 | 14621.3 | 14967.6 | 14812.0 | 15380.1 | 16139.0 | 15177.8 |
| 57.5° | 8877.1 | 9207.9 | 10815.1 | 14021.9 | 16150.7 | 16586.6 | 17022.5 | 16925.2 | 17610.1 | 18485.8 | 16753.9 |
| 60° | 8336.1 | 8526.8 | 10075.7 | 13928.5 | 16968.0 | 18618.1 | 19602.7 | 18917.7 | 20034.7 | 20704.0 | 17987.6 |
| 62.5° | 7398.2 | 7518.8 | 8997.7 | 12691.0 | 17213.2 | 20054.1 | 21723.7 | 20793.6 | 21762.6 | 22579.9 | 18874.9 |
| 65° | 5931.0 | 6257.9 | 7479.9 | 10838.5 | 15594.2 | 20318.8 | 23046.9 | 21953.3 | 22891.2 | 23428.3 | 19143.5 |
| 66° | 5397.8 | 5635.2 | 6756.1 | 9857.8 | 14671.9 | 19879.0 | 22825.0 | 22194.6 | 23054.7 | 23545.0 | 18730.9 |
| 67.5° | 4479.4 | 4685.7 | 5576.9 | 8460.6 | 12784.4 | 18910.0 | 22980.7 | 22031.1 | 23179.2 | 22879.5 | 18178.3 |
| 70° | 2965.5 | 3097.8 | 3813.9 | 5720.9 | 8904.3 | 15469.7 | 21315.0 | 20754.6 | 20377.1 | 19252.4 | 14212.6 |
| 72.5° | 1385.5 | 1576.2 | 2381.7 | 3467.5 | 5222.7 | 10822.9 | 17380.5 | 16629.4 | 14290.5 | 12492.5 | 8966.6 |
| 75° | 626.6 | 712.2 | 1307.6 | 1988.7 | 2342.8 | 5608.0 | 11212.1 | 10126.3 | 7114.1 | 5907.7 | 3926.8 |
| 77.5° | 338.6 | 385.3 | 638.2 | 945.7 | 852.3 | 1965.3 | 5549.6 | 4615.6 | 2241.6 | 1642.3 | 1140.3 |
| 80° | 260.7 | 307.4 | 533.2 | 541.0 | 315.2 | 509.8 | 2062.6 | 1428.3 | 560.4 | 424.2 | 272.4 |
| 82.5° | 136.2 | 194.6 | 420.3 | 350.3 | 159.6 | 206.3 | 638.2 | 397.0 | 175.1 | 140.1 | 116.8 |
| 85° | 54.5 | 85.6 | 237.4 | 233.5 | 93.4 | 70.1 | 179.0 | 120.6 | 70.1 | 58.4 | 54.5 |
| 87.5° | 3.9 | 3.9 | 128.4 | 89.5 | 58.4 | 19.5 | 27.2 | 27.2 | 35.0 | 31.1 | 38.9 |
| 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° | 4125.2 | 4125.2 | 4125.2 | 4125.2 | 4125.2 | 4125.2 | 4125.2 | 4125.2 | 4125.2 | 4125.2 | 4125.2 |
| 2.5° | 4226.4 | 4273.1 | 4280.9 | 4409.3 | 4436.6 | 4409.3 | 4479.4 | 4467.7 | 4498.8 | 4475.5 | 4432.7 |
| 5° | 4323.7 | 4389.9 | 4518.3 | 4615.6 | 4615.6 | 4537.8 | 4475.5 | 4393.8 | 4273.1 | 4242.0 | 4218.6 |
| 7.5° | 4491.1 | 4701.2 | 4818.0 | 4755.7 | 4631.2 | 4339.3 | 3934.5 | 3638.8 | 3389.7 | 3296.3 | 3253.5 |
| 10° | 4786.8 | 4903.6 | 5039.8 | 4786.8 | 4269.2 | 3650.4 | 2969.4 | 2521.8 | 2171.6 | 2093.8 | 2035.4 |
| 12.5° | 4977.5 | 5164.3 | 5242.2 | 4615.6 | 3599.9 | 2677.5 | 1938.1 | 1432.2 | 1187.0 | 1000.2 | 969.0 |
| 15° | 5226.6 | 5440.6 | 5281.1 | 4152.5 | 2837.1 | 1755.2 | 1004.1 | 626.6 | 509.8 | 478.7 | 478.7 |
| 17.5° | 5397.8 | 5631.3 | 5121.5 | 3576.5 | 2012.0 | 934.0 | 498.1 | 432.0 | 424.2 | 428.1 | 420.3 |
| 20° | 5697.5 | 5837.6 | 4880.2 | 2907.1 | 1202.5 | 478.7 | 400.8 | 385.3 | 377.5 | 389.2 | 381.4 |
| 22.5° | 5810.4 | 5938.8 | 4487.2 | 2105.4 | 541.0 | 319.1 | 299.7 | 288.0 | 295.8 | 291.9 | 288.0 |
| 25° | 5802.6 | 5868.7 | 3841.1 | 1206.4 | 159.6 | 124.5 | 112.9 | 112.9 | 105.1 | 109.0 | 105.1 |
| 27.5° | 5861.0 | 5697.5 | 3117.3 | 358.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 5892.1 | 5421.2 | 2218.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 5907.7 | 5277.2 | 1428.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 6028.3 | 4989.2 | 611.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 6110.0 | 4619.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 6448.6 | 4502.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 6888.4 | 4284.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 7499.4 | 3961.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 8308.9 | 3771.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 8912.1 | 3471.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 9678.8 | 3292.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 10589.4 | 3300.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 11418.4 | 3245.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 11842.6 | 2774.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 11753.0 | 2245.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 11441.7 | 1763.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 66° | 11227.7 | 1560.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 10577.7 | 1249.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 8417.8 | 856.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 5355.0 | 525.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 2467.4 | 241.3 | 7.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 774.5 | 147.9 | 31.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 202.4 | 93.4 | 31.1 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 105.1 | 66.2 | 27.2 | 11.7 | 7.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 66.2 | 27.2 | 11.7 | 7.8 | 7.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 58.4 | 15.6 | 7.8 | 7.8 | 3.9 | 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)