

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: P481720

Luminaire Tested: **IFLD-S-SA6A-750-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481720
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-750-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

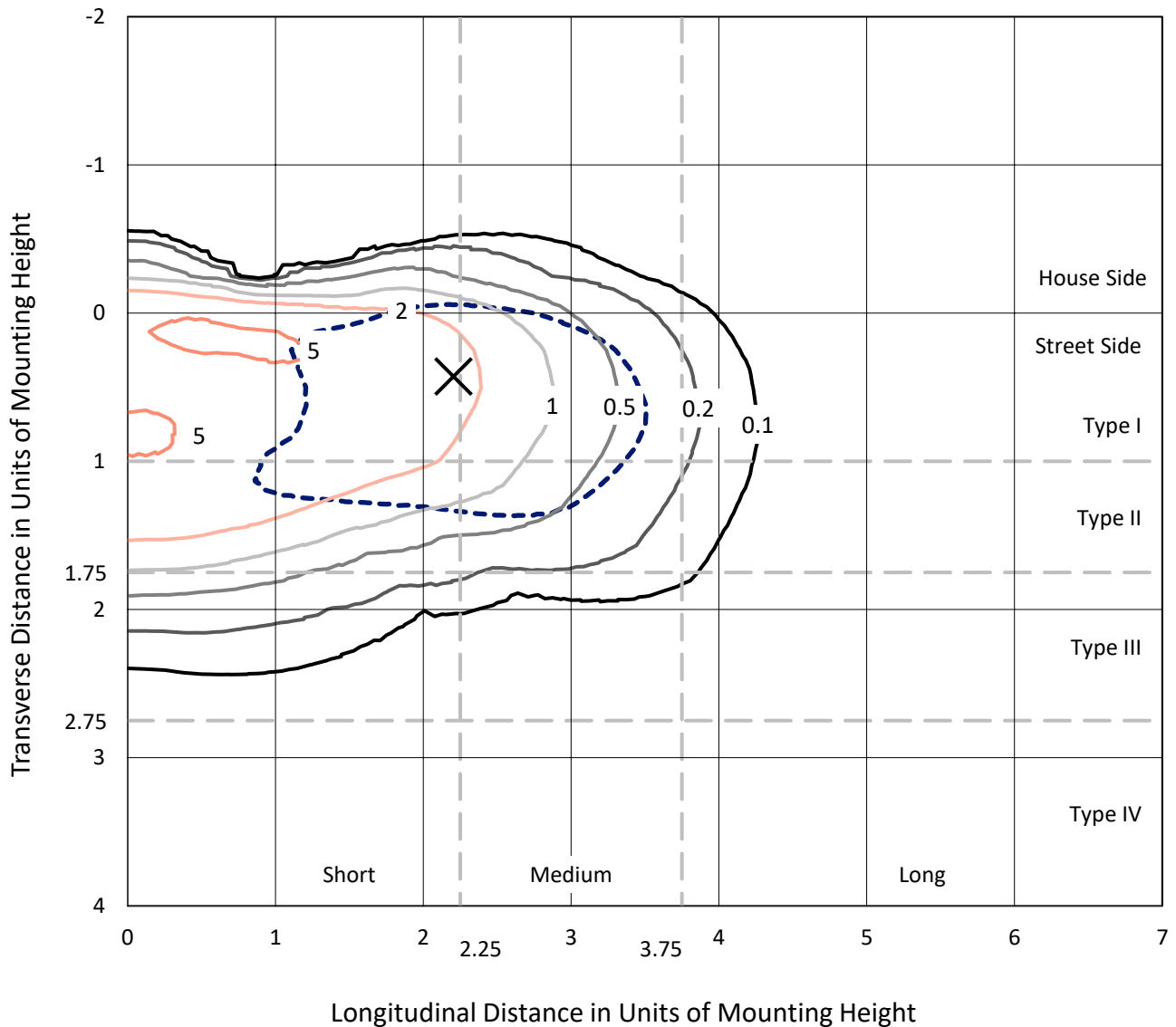
Lumens per Lamp: N/A
Luminaire Lumens: 19881.6 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 189.6
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

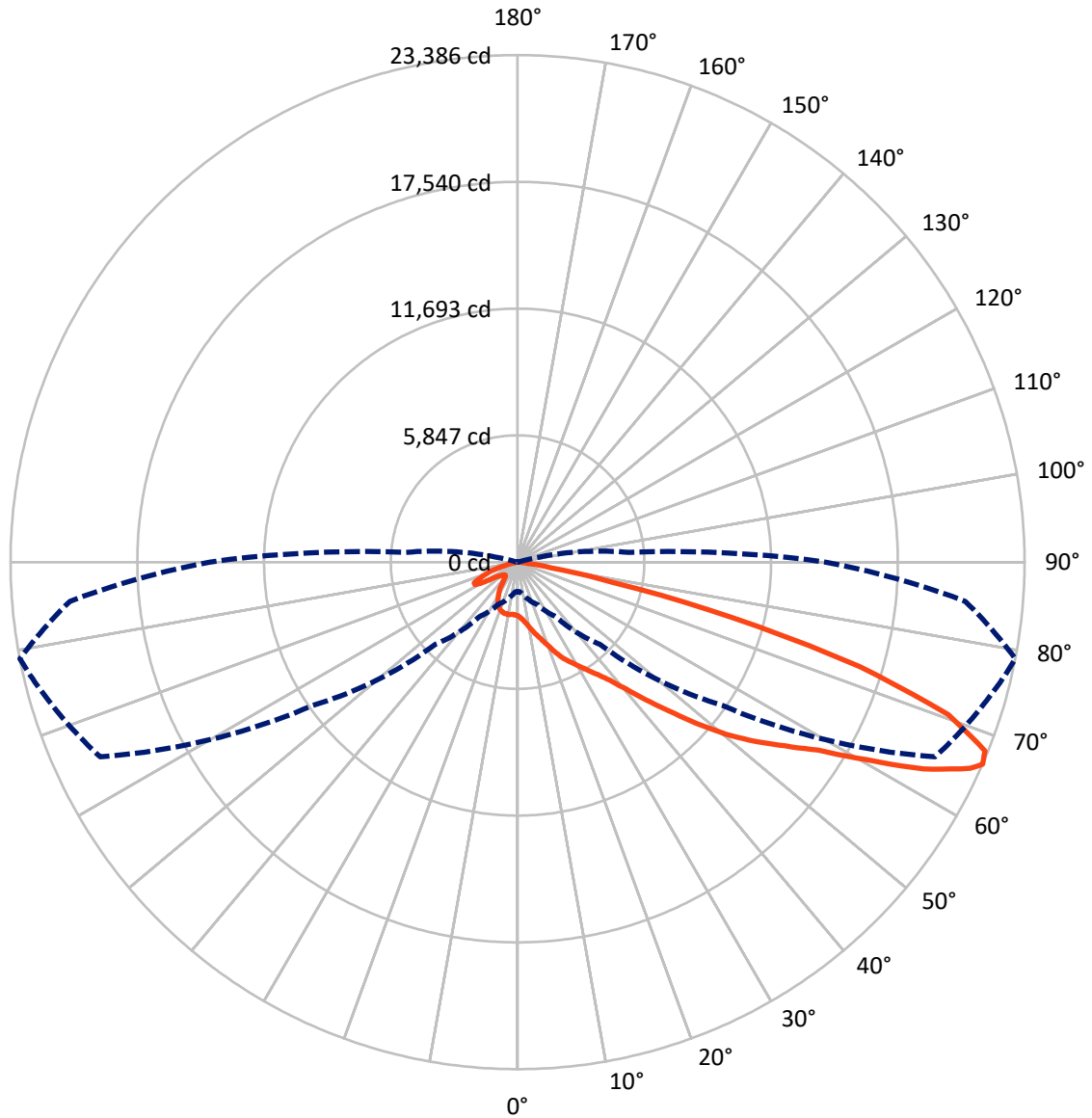
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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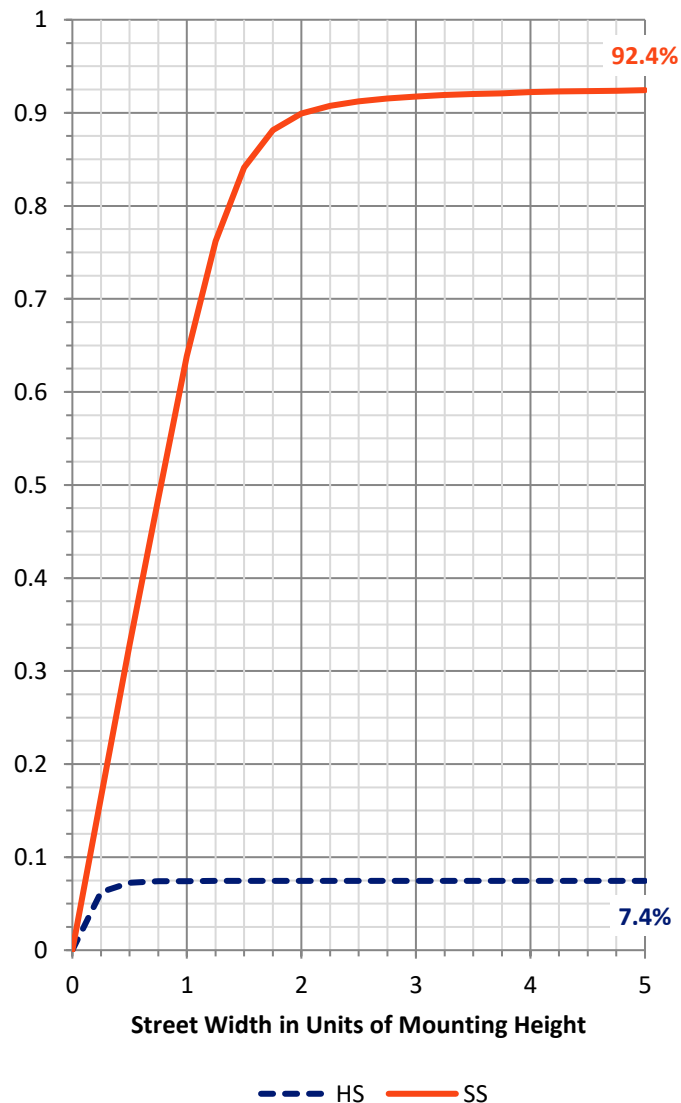
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1492.8 | 0.0 | 1492.8 |
| | % Fixture | 7.5 | 0.0 | 7.5 |
| Street Side | Lumens | 18388.8 | 0.0 | 18388.8 |
| | % Fixture | 92.5 | 0.0 | 92.5 |
| Total | Lumens | 19881.6 | 0.0 | 19881.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 233.9 | 1.2 |
| 10°-20° | 643.8 | 3.2 |
| 20°-30° | 1069.5 | 5.4 |
| 30°-40° | 1837.0 | 9.2 |
| 40°-50° | 3328.0 | 16.7 |
| 50°-60° | 5260.6 | 26.5 |
| 60°-70° | 5353.0 | 26.9 |
| 70°-80° | 2041.4 | 10.3 |
| 80°-90° | 114.4 | 0.6 |
| 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° | 19881.6 | 100.0 |
| 0°-180° | 19881.6 | 100.0 |

Coefficient of Utilization



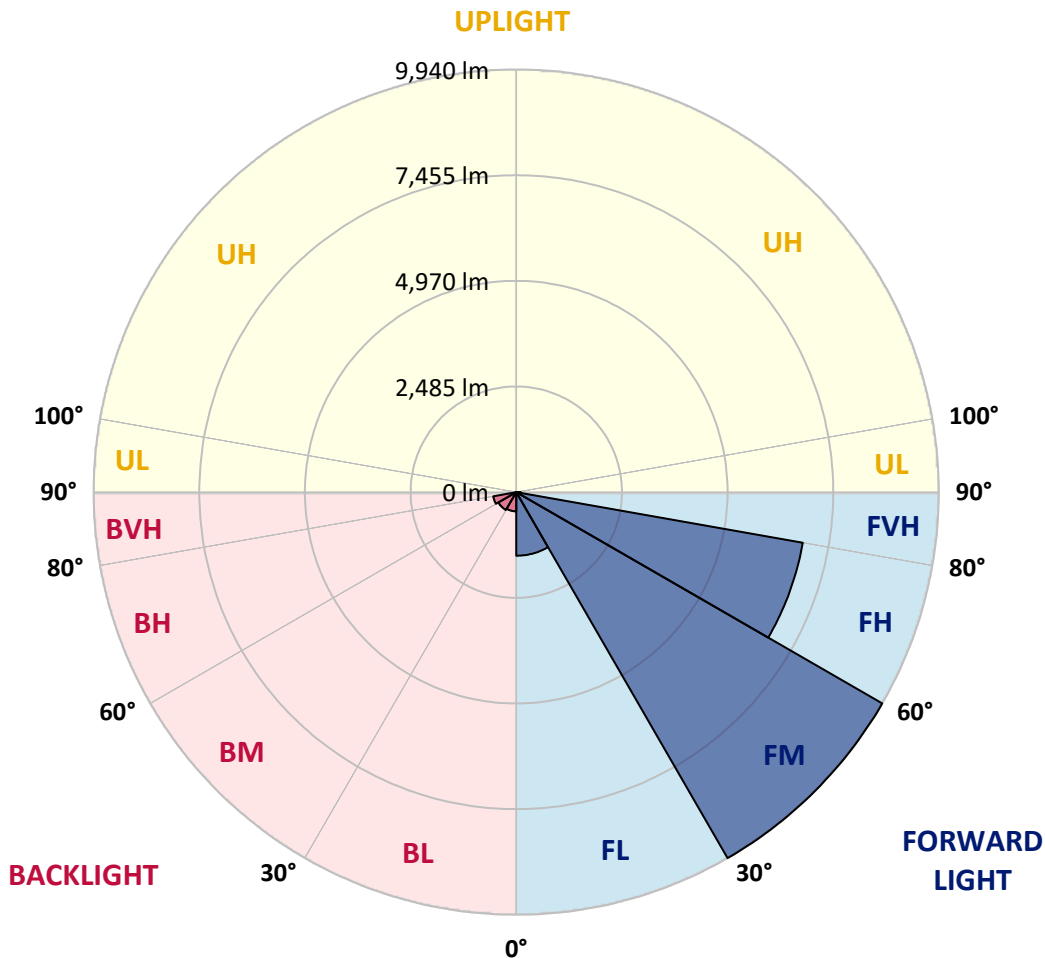
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1495.8 | 7.5 | | | |
| FM (30°-60°) | 9940.3 | 50.0 | | | |
| FH (60°-80°) | 6844.1 | 34.4 | | | G3/7500 |
| FVH (80°-90°) | 108.6 | 0.5 | | | G2/225 |
| BL (0°-30°) | 451.5 | 2.3 | B1/500 | | |
| BM (30°-60°) | 485.2 | 2.4 | B1/1000 | | |
| BH (60°-80°) | 550.3 | 2.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 5.9 | 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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2473.5 | 2473.5 | 2473.5 | 2473.5 | 2473.5 | 2473.5 | 2473.5 | 2473.5 | 2473.5 | 2473.5 | 2473.5 |
| 2.5° | 2801.5 | 2798.4 | 2786.1 | 2764.7 | 2737.1 | 2727.9 | 2688.1 | 2632.9 | 2602.2 | 2568.5 | 2553.2 |
| 5° | 2994.6 | 2979.2 | 3016.0 | 3000.7 | 3006.8 | 2933.3 | 2884.2 | 2844.4 | 2727.9 | 2681.9 | 2608.4 |
| 7.5° | 3037.5 | 3052.8 | 3049.7 | 3074.3 | 3098.8 | 3126.4 | 3092.7 | 3034.4 | 2917.9 | 2850.5 | 2770.8 |
| 10° | 3037.5 | 3031.3 | 3055.9 | 3089.6 | 3160.1 | 3221.4 | 3313.3 | 3236.7 | 3147.8 | 3068.1 | 2924.1 |
| 12.5° | 2982.3 | 2973.1 | 2997.6 | 3068.1 | 3193.8 | 3319.5 | 3420.6 | 3494.2 | 3368.5 | 3304.1 | 3117.2 |
| 15° | 2813.7 | 2804.5 | 2905.7 | 3031.3 | 3196.9 | 3402.2 | 3613.7 | 3733.2 | 3647.4 | 3546.3 | 3337.9 |
| 17.5° | 2605.3 | 2617.6 | 2724.8 | 2933.3 | 3196.9 | 3442.1 | 3711.8 | 3972.3 | 3960.1 | 3831.3 | 3613.7 |
| 20° | 2534.8 | 2544.0 | 2651.3 | 2801.5 | 3101.8 | 3469.7 | 3865.0 | 4232.9 | 4306.4 | 4153.2 | 3868.1 |
| 22.5° | 2669.7 | 2660.5 | 2669.7 | 2761.6 | 3037.5 | 3445.1 | 3966.2 | 4530.2 | 4662.0 | 4542.4 | 4202.2 |
| 25° | 3129.4 | 3123.3 | 3046.7 | 2905.7 | 3000.7 | 3390.0 | 4018.3 | 4726.3 | 5029.8 | 4919.4 | 4471.9 |
| 27.5° | 3803.7 | 3779.2 | 3659.7 | 3365.4 | 3172.3 | 3423.7 | 4104.1 | 4916.4 | 5351.6 | 5225.9 | 4714.1 |
| 30° | 4527.1 | 4468.9 | 4312.5 | 3944.7 | 3616.8 | 3549.3 | 4153.2 | 5057.4 | 5710.2 | 5550.8 | 4925.6 |
| 32.5° | 5026.7 | 5103.3 | 5054.3 | 4680.4 | 4177.7 | 3840.5 | 4232.9 | 5235.1 | 6041.2 | 5937.0 | 5287.2 |
| 35° | 5799.1 | 5888.0 | 5682.6 | 5351.6 | 4845.9 | 4303.4 | 4401.4 | 5379.2 | 6550.0 | 6375.3 | 5624.4 |
| 37.5° | 6773.8 | 6841.2 | 6694.1 | 6065.8 | 5532.4 | 4873.5 | 4747.8 | 5679.6 | 6988.3 | 6905.6 | 6056.6 |
| 40° | 7264.2 | 7589.1 | 7380.7 | 6813.6 | 6240.5 | 5670.4 | 5321.0 | 6032.0 | 7751.6 | 7684.1 | 6654.3 |
| 42.5° | 7941.6 | 8104.0 | 7996.8 | 7576.8 | 6979.2 | 6522.5 | 6029.0 | 6718.6 | 8677.2 | 8677.2 | 7463.4 |
| 45° | 8658.8 | 8664.9 | 8658.8 | 8315.5 | 7785.3 | 7549.3 | 6985.3 | 7579.9 | 9673.3 | 9783.7 | 8432.0 |
| 47.5° | 9247.3 | 9431.2 | 9415.9 | 9210.5 | 8799.8 | 8710.9 | 7941.6 | 8560.7 | 10923.9 | 11117.0 | 9376.0 |
| 50° | 9550.7 | 9756.1 | 9817.4 | 9924.7 | 9906.3 | 10093.3 | 8986.8 | 9697.9 | 12002.8 | 12477.9 | 10589.8 |
| 52.5° | 9468.0 | 9483.3 | 9860.3 | 10283.3 | 10957.6 | 11481.7 | 10246.5 | 10988.3 | 13265.6 | 13734.6 | 11527.7 |
| 55° | 8790.6 | 8732.4 | 9507.8 | 9992.1 | 11386.7 | 12330.8 | 11990.5 | 12597.4 | 14249.5 | 14963.6 | 12496.3 |
| 57.5° | 7304.1 | 7319.4 | 8036.6 | 9020.5 | 11068.0 | 12667.9 | 13854.1 | 14700.1 | 15628.8 | 16349.1 | 13857.2 |
| 60° | 5042.0 | 5023.6 | 5826.7 | 6963.8 | 9195.2 | 12039.6 | 14926.9 | 17424.9 | 17473.9 | 18494.6 | 16300.0 |
| 62.5° | 2835.2 | 2841.3 | 3451.3 | 4422.9 | 6433.6 | 9838.9 | 14874.8 | 20318.3 | 20109.9 | 21004.9 | 19077.0 |
| 65° | 1606.1 | 1645.9 | 2065.9 | 2620.6 | 3852.8 | 6605.2 | 12793.6 | 21470.8 | 22142.0 | 22938.9 | 20762.8 |
| 66° | 1357.8 | 1385.4 | 1744.0 | 2163.9 | 3074.3 | 5357.7 | 11515.5 | 21247.0 | 22779.6 | 23386.4 | 20729.0 |
| 67.5° | 1051.3 | 1088.1 | 1388.5 | 1716.4 | 2255.9 | 3708.7 | 9268.8 | 20134.4 | 22896.0 | 23251.6 | 20143.6 |
| 70° | 720.3 | 744.8 | 974.7 | 1302.7 | 1541.7 | 1897.3 | 5541.6 | 16646.4 | 20775.0 | 21075.4 | 17507.7 |
| 72.5° | 505.7 | 518.0 | 683.5 | 987.0 | 1186.2 | 1085.0 | 2749.4 | 11843.4 | 15898.5 | 16483.9 | 13618.1 |
| 75° | 364.7 | 377.0 | 469.0 | 708.0 | 925.6 | 711.1 | 1259.7 | 7564.6 | 9750.0 | 10209.7 | 8202.1 |
| 77.5° | 263.6 | 278.9 | 318.8 | 456.7 | 671.2 | 499.6 | 619.1 | 3950.9 | 4597.6 | 4517.9 | 3527.9 |
| 80° | 159.4 | 174.7 | 236.0 | 294.2 | 490.4 | 352.5 | 340.2 | 1649.0 | 1630.6 | 1547.9 | 1109.6 |
| 82.5° | 73.6 | 85.8 | 125.7 | 199.2 | 343.3 | 245.2 | 162.4 | 588.5 | 514.9 | 472.0 | 312.6 |
| 85° | 21.5 | 27.6 | 73.6 | 150.2 | 174.7 | 119.5 | 98.1 | 202.3 | 211.5 | 180.8 | 104.2 |
| 87.5° | 0.0 | 3.1 | 33.7 | 36.8 | 52.1 | 39.8 | 36.8 | 52.1 | 98.1 | 79.7 | 33.7 |
| 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° | 2473.5 | 2473.5 | 2473.5 | 2473.5 | 2473.5 | 2473.5 | 2473.5 | 2473.5 | 2473.5 | 2473.5 | 2473.5 |
| 2.5° | 2498.0 | 2476.6 | 2424.5 | 2344.8 | 2274.3 | 2237.5 | 2185.4 | 2139.4 | 2114.9 | 2111.8 | 2108.8 |
| 5° | 2559.3 | 2501.1 | 2375.4 | 2231.4 | 2124.1 | 2007.6 | 1927.9 | 1869.7 | 1814.5 | 1762.4 | 1793.1 |
| 7.5° | 2642.1 | 2550.1 | 2344.8 | 2157.8 | 1924.9 | 1774.7 | 1633.7 | 1550.9 | 1501.9 | 1455.9 | 1449.8 |
| 10° | 2770.8 | 2654.3 | 2323.3 | 1986.2 | 1719.5 | 1498.8 | 1354.8 | 1235.2 | 1167.8 | 1088.1 | 1118.7 |
| 12.5° | 2945.5 | 2737.1 | 2243.6 | 1829.8 | 1486.6 | 1253.6 | 1048.3 | 855.2 | 747.9 | 665.1 | 668.2 |
| 15° | 3120.2 | 2847.4 | 2170.1 | 1639.8 | 1275.1 | 968.6 | 668.2 | 536.4 | 505.7 | 487.3 | 493.5 |
| 17.5° | 3291.9 | 2936.3 | 2056.7 | 1446.7 | 1032.9 | 616.1 | 487.3 | 459.8 | 444.4 | 426.0 | 426.0 |
| 20° | 3500.3 | 2994.6 | 1915.7 | 1268.9 | 711.1 | 456.7 | 416.8 | 398.5 | 373.9 | 349.4 | 352.5 |
| 22.5° | 3702.6 | 3043.6 | 1753.2 | 1042.1 | 478.2 | 395.4 | 349.4 | 324.9 | 303.4 | 278.9 | 278.9 |
| 25° | 3904.9 | 3058.9 | 1541.7 | 747.9 | 386.2 | 315.7 | 272.8 | 239.1 | 217.6 | 196.2 | 199.2 |
| 27.5° | 4042.8 | 2963.9 | 1342.5 | 478.2 | 309.6 | 239.1 | 190.0 | 162.4 | 144.1 | 122.6 | 122.6 |
| 30° | 4122.5 | 2789.2 | 1127.9 | 337.2 | 232.9 | 162.4 | 113.4 | 85.8 | 67.4 | 52.1 | 49.0 |
| 32.5° | 4202.2 | 2648.2 | 885.8 | 257.5 | 153.3 | 85.8 | 42.9 | 15.3 | 0.0 | 0.0 | 0.0 |
| 35° | 4361.6 | 2488.8 | 594.6 | 144.1 | 52.1 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 4462.7 | 2268.1 | 272.8 | 21.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 4717.1 | 2157.8 | 67.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 5130.9 | 2081.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 5584.5 | 2050.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 6188.4 | 2133.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 6825.9 | 2357.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 7524.7 | 2568.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 8134.7 | 2822.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 9256.5 | 3423.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 11270.2 | 4603.7 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 13538.4 | 5480.3 | 33.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 14369.0 | 5458.9 | 58.2 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 66° | 14221.9 | 5158.5 | 58.2 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 13458.7 | 4582.3 | 52.1 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 11558.4 | 3785.4 | 52.1 | 9.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 8812.1 | 2948.6 | 49.0 | 12.3 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 5317.9 | 1569.3 | 39.8 | 15.3 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 2118.0 | 551.7 | 30.7 | 12.3 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 573.2 | 165.5 | 18.4 | 12.3 | 9.2 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 150.2 | 61.3 | 15.3 | 12.3 | 6.1 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 58.2 | 24.5 | 12.3 | 9.2 | 9.2 | 6.1 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 18.4 | 9.2 | 9.2 | 6.1 | 6.1 | 3.1 | 3.1 | 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)