

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: P481604

Luminaire Tested: **IFLD-S-SA6B-730-U-T2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481604
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-730-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

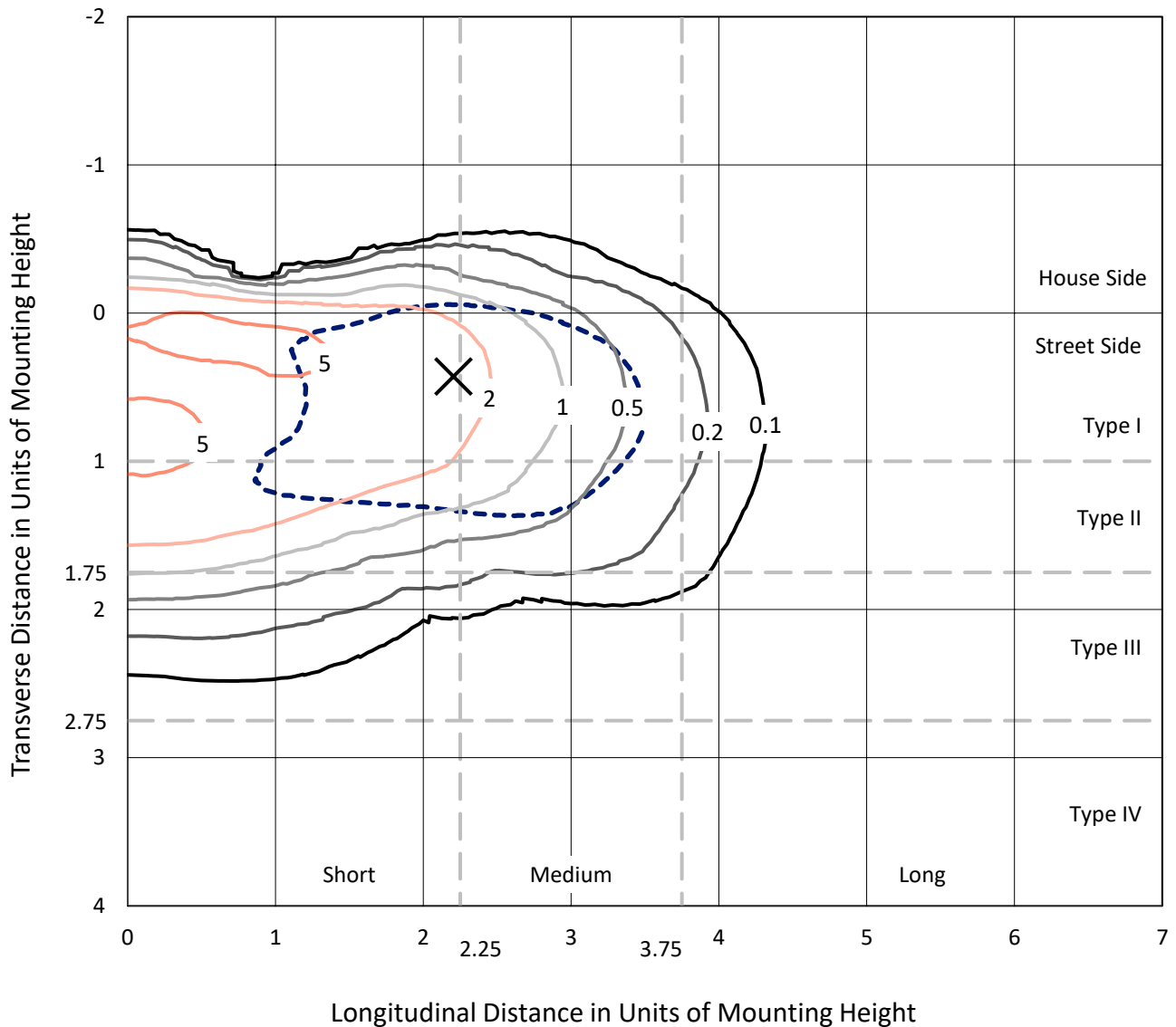
Lumens per Lamp: N/A
Luminaire Lumens: 21889 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9
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

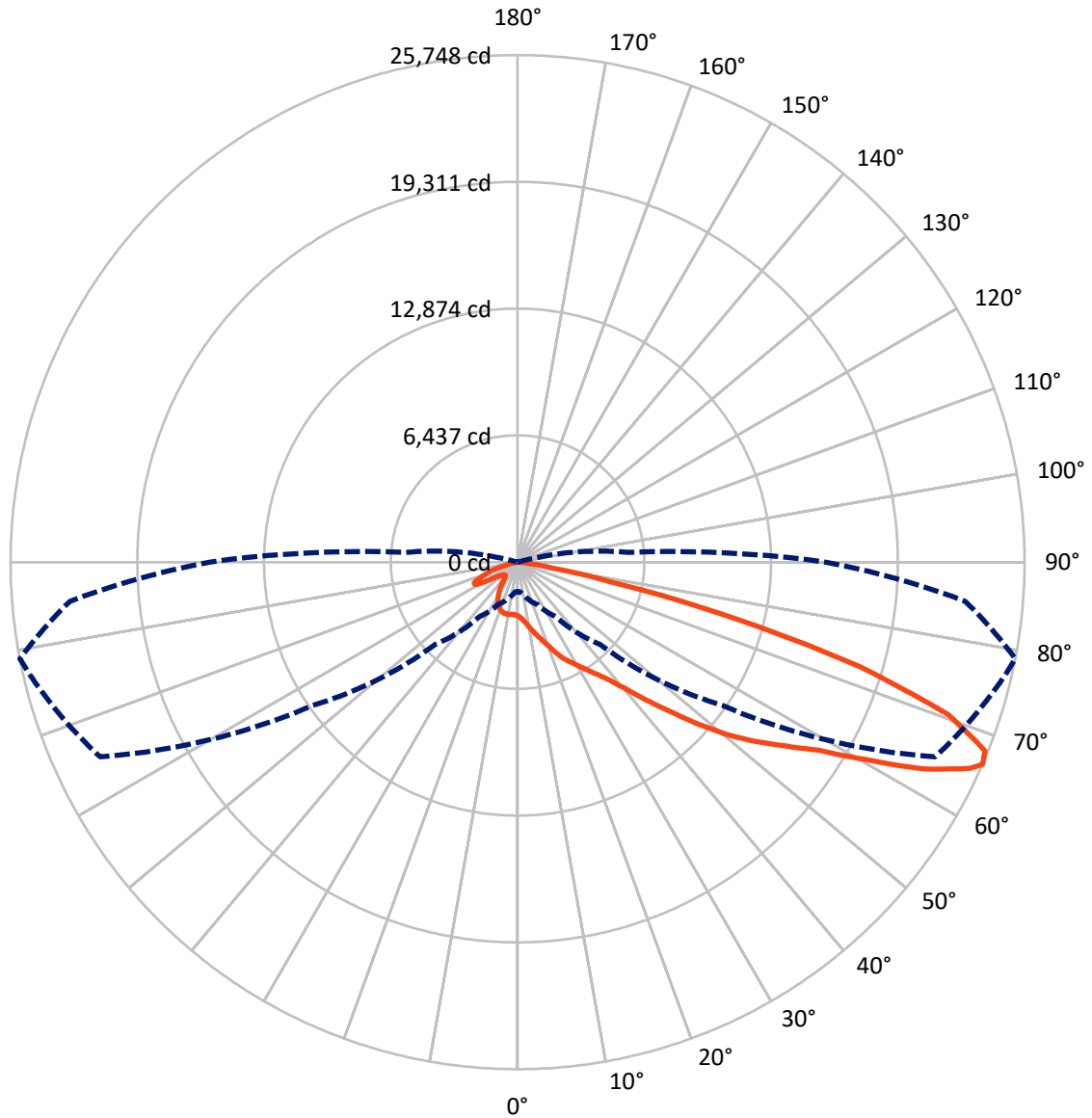
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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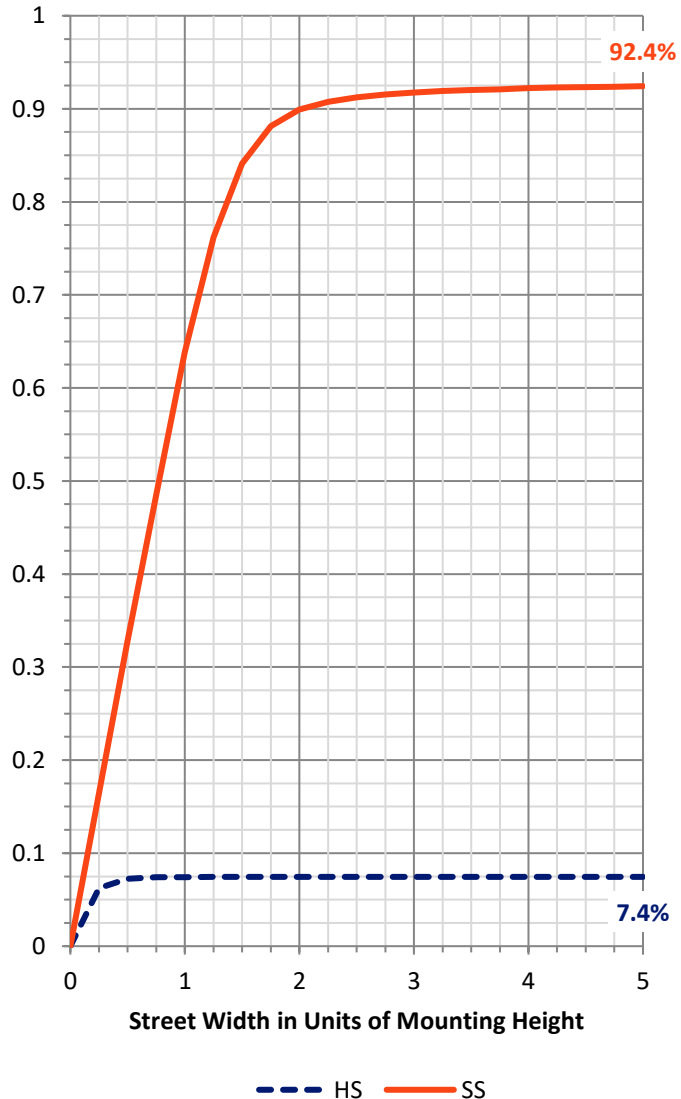
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1643.6 | 0.0 | 1643.6 |
| | % Fixture | 7.5 | 0.0 | 7.5 |
| Street Side | Lumens | 20245.4 | 0.0 | 20245.4 |
| | % Fixture | 92.5 | 0.0 | 92.5 |
| Total | Lumens | 21889.0 | 0.0 | 21889.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 257.5 | 1.2 |
| 10°-20° | 708.8 | 3.2 |
| 20°-30° | 1177.5 | 5.4 |
| 30°-40° | 2022.5 | 9.2 |
| 40°-50° | 3664.0 | 16.7 |
| 50°-60° | 5791.7 | 26.5 |
| 60°-70° | 5893.5 | 26.9 |
| 70°-80° | 2247.5 | 10.3 |
| 80°-90° | 126.0 | 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° | 21889.0 | 100.0 |
| 0°-180° | 21889.0 | 100.0 |

Coefficient of Utilization



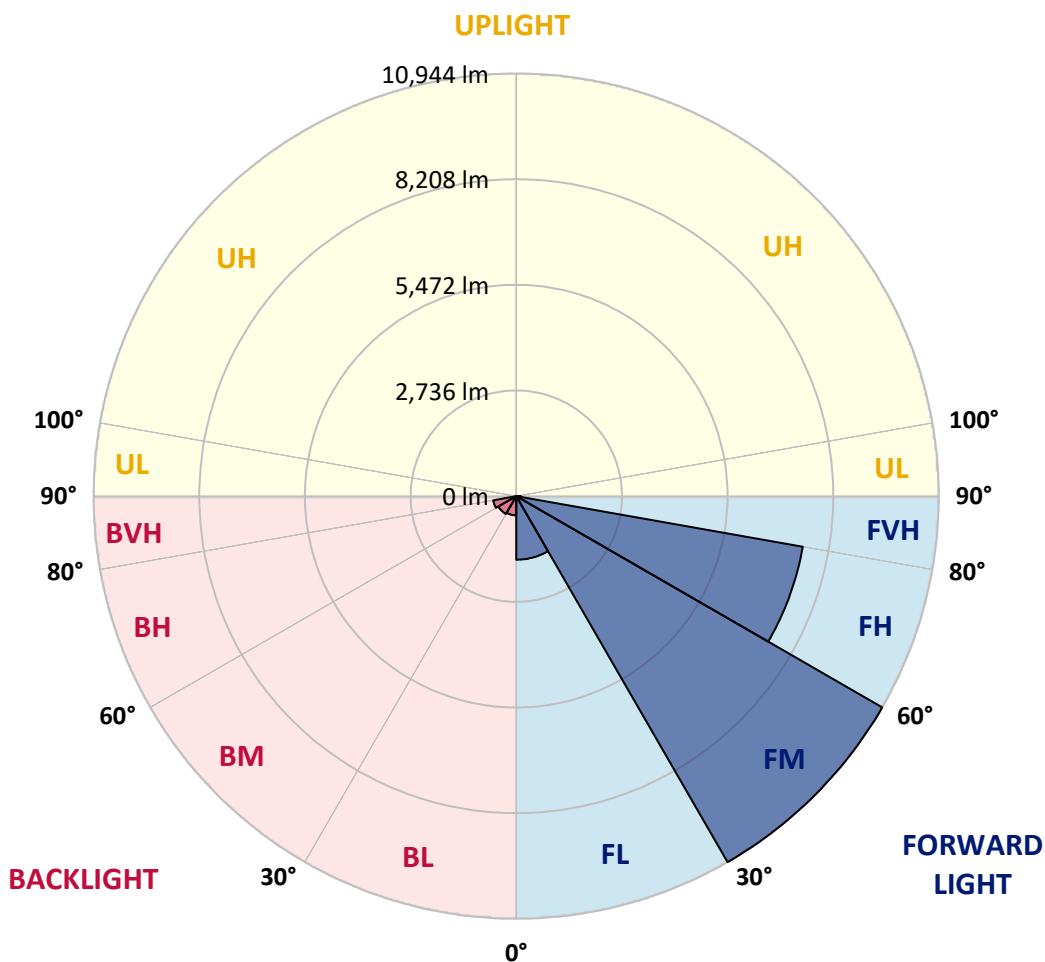
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1646.8 | 7.5 | | | |
| FM (30°-60°) | 10944.0 | 50.0 | | | |
| FH (60°-80°) | 7535.1 | 34.4 | | | G4/12000 |
| FVH (80°-90°) | 119.6 | 0.5 | | | G2/225 |
| BL (0°-30°) | 497.1 | 2.3 | B1/500 | | |
| BM (30°-60°) | 534.2 | 2.4 | B1/1000 | | |
| BH (60°-80°) | 605.9 | 2.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 6.4 | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2723.3 | 2723.3 | 2723.3 | 2723.3 | 2723.3 | 2723.3 | 2723.3 | 2723.3 | 2723.3 | 2723.3 | 2723.3 |
| 2.5° | 3084.3 | 3081.0 | 3067.5 | 3043.8 | 3013.5 | 3003.3 | 2959.5 | 2898.7 | 2865.0 | 2827.9 | 2811.0 |
| 5° | 3296.9 | 3280.1 | 3320.5 | 3303.7 | 3310.4 | 3229.4 | 3175.4 | 3131.6 | 3003.3 | 2952.7 | 2871.7 |
| 7.5° | 3344.2 | 3361.0 | 3357.7 | 3384.7 | 3411.7 | 3442.0 | 3404.9 | 3340.8 | 3212.6 | 3138.3 | 3050.6 |
| 10° | 3344.2 | 3337.4 | 3364.4 | 3401.5 | 3479.1 | 3546.6 | 3647.9 | 3563.5 | 3465.7 | 3377.9 | 3219.3 |
| 12.5° | 3283.4 | 3273.3 | 3300.3 | 3377.9 | 3516.3 | 3654.6 | 3766.0 | 3847.0 | 3708.6 | 3637.8 | 3431.9 |
| 15° | 3097.8 | 3087.7 | 3199.1 | 3337.4 | 3519.6 | 3745.7 | 3978.6 | 4110.2 | 4015.7 | 3904.3 | 3674.9 |
| 17.5° | 2868.4 | 2881.9 | 3000.0 | 3229.4 | 3519.6 | 3789.6 | 4086.6 | 4373.4 | 4359.9 | 4218.2 | 3978.6 |
| 20° | 2790.7 | 2800.9 | 2919.0 | 3084.3 | 3415.0 | 3820.0 | 4255.3 | 4660.2 | 4741.2 | 4572.5 | 4258.7 |
| 22.5° | 2939.2 | 2929.1 | 2939.2 | 3040.5 | 3344.2 | 3793.0 | 4366.7 | 4987.6 | 5132.7 | 5001.1 | 4626.5 |
| 25° | 3445.4 | 3438.7 | 3354.3 | 3199.1 | 3303.7 | 3732.2 | 4424.0 | 5203.5 | 5537.6 | 5416.1 | 4923.5 |
| 27.5° | 4187.8 | 4160.8 | 4029.2 | 3705.2 | 3492.6 | 3769.4 | 4518.5 | 5412.8 | 5891.9 | 5753.6 | 5190.0 |
| 30° | 4984.2 | 4920.1 | 4748.0 | 4343.0 | 3982.0 | 3907.7 | 4572.5 | 5568.0 | 6286.8 | 6111.3 | 5422.9 |
| 32.5° | 5534.2 | 5618.6 | 5564.6 | 5152.9 | 4599.5 | 4228.3 | 4660.2 | 5763.7 | 6651.2 | 6536.5 | 5821.1 |
| 35° | 6384.6 | 6482.5 | 6256.4 | 5891.9 | 5335.1 | 4737.9 | 4845.8 | 5922.3 | 7211.4 | 7019.0 | 6192.3 |
| 37.5° | 7457.7 | 7532.0 | 7370.0 | 6678.2 | 6091.0 | 5365.5 | 5227.2 | 6253.0 | 7693.9 | 7602.8 | 6668.1 |
| 40° | 7997.7 | 8355.4 | 8125.9 | 7501.6 | 6870.6 | 6242.9 | 5858.2 | 6641.1 | 8534.2 | 8460.0 | 7326.1 |
| 42.5° | 8743.4 | 8922.3 | 8804.2 | 8341.9 | 7683.8 | 7181.0 | 6637.7 | 7397.0 | 9553.3 | 9553.3 | 8217.0 |
| 45° | 9533.1 | 9539.8 | 9533.1 | 9155.1 | 8571.3 | 8311.5 | 7690.6 | 8345.2 | 10650.0 | 10771.5 | 9283.4 |
| 47.5° | 10181.0 | 10383.5 | 10366.6 | 10140.5 | 9688.3 | 9590.4 | 8743.4 | 9425.1 | 12026.9 | 12239.5 | 10322.7 |
| 50° | 10515.1 | 10741.2 | 10808.6 | 10926.8 | 10906.5 | 11112.4 | 9894.1 | 10677.0 | 13214.7 | 13737.7 | 11659.0 |
| 52.5° | 10423.9 | 10440.8 | 10855.9 | 11321.6 | 12064.0 | 12641.0 | 11281.1 | 12097.7 | 14605.0 | 15121.3 | 12691.6 |
| 55° | 9678.2 | 9614.1 | 10467.8 | 11001.0 | 12536.4 | 13575.8 | 13201.2 | 13869.4 | 15688.2 | 16474.5 | 13758.0 |
| 57.5° | 8041.5 | 8058.4 | 8848.0 | 9931.3 | 12185.5 | 13947.0 | 15252.9 | 16184.3 | 17206.8 | 17999.8 | 15256.3 |
| 60° | 5551.1 | 5530.9 | 6415.0 | 7667.0 | 10123.6 | 13255.2 | 16434.0 | 19184.3 | 19238.2 | 20362.0 | 17945.8 |
| 62.5° | 3121.4 | 3128.2 | 3799.7 | 4869.5 | 7083.2 | 10832.3 | 16376.6 | 22369.8 | 22140.3 | 23125.7 | 21003.1 |
| 65° | 1768.3 | 1812.1 | 2274.4 | 2885.2 | 4241.8 | 7272.1 | 14085.3 | 23638.6 | 24377.7 | 25255.0 | 22859.1 |
| 66° | 1494.9 | 1525.3 | 1920.1 | 2382.4 | 3384.7 | 5898.7 | 12678.1 | 23392.3 | 25079.6 | 25747.7 | 22822.0 |
| 67.5° | 1157.5 | 1198.0 | 1528.7 | 1889.7 | 2483.7 | 4083.2 | 10204.6 | 22167.3 | 25207.8 | 25599.2 | 22177.5 |
| 70° | 793.0 | 820.0 | 1073.1 | 1434.2 | 1697.4 | 2088.8 | 6101.2 | 18327.1 | 22872.6 | 23203.3 | 19275.4 |
| 72.5° | 556.8 | 570.3 | 752.5 | 1086.6 | 1305.9 | 1194.6 | 3027.0 | 13039.2 | 17503.7 | 18148.3 | 14993.1 |
| 75° | 401.6 | 415.1 | 516.3 | 779.5 | 1019.1 | 782.9 | 1386.9 | 8328.4 | 10734.4 | 11240.6 | 9030.3 |
| 77.5° | 290.2 | 307.1 | 351.0 | 502.8 | 739.0 | 550.0 | 681.7 | 4349.8 | 5061.8 | 4974.1 | 3884.1 |
| 80° | 175.5 | 192.3 | 259.8 | 324.0 | 539.9 | 388.1 | 374.6 | 1815.5 | 1795.3 | 1704.1 | 1221.6 |
| 82.5° | 81.0 | 94.5 | 138.4 | 219.3 | 377.9 | 270.0 | 178.9 | 647.9 | 566.9 | 519.7 | 344.2 |
| 85° | 23.6 | 30.4 | 81.0 | 165.4 | 192.3 | 131.6 | 108.0 | 222.7 | 232.8 | 199.1 | 114.7 |
| 87.5° | 0.0 | 3.4 | 37.1 | 40.5 | 57.4 | 43.9 | 40.5 | 57.4 | 108.0 | 87.7 | 37.1 |
| 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° | 2723.3 | 2723.3 | 2723.3 | 2723.3 | 2723.3 | 2723.3 | 2723.3 | 2723.3 | 2723.3 | 2723.3 | 2723.3 |
| 2.5° | 2750.2 | 2726.6 | 2669.3 | 2581.5 | 2503.9 | 2463.4 | 2406.0 | 2355.4 | 2328.4 | 2325.1 | 2321.7 |
| 5° | 2817.7 | 2753.6 | 2615.3 | 2456.7 | 2338.6 | 2210.3 | 2122.6 | 2058.5 | 1997.7 | 1940.4 | 1974.1 |
| 7.5° | 2908.9 | 2807.6 | 2581.5 | 2375.7 | 2119.2 | 1953.9 | 1798.6 | 1707.5 | 1653.5 | 1602.9 | 1596.2 |
| 10° | 3050.6 | 2922.4 | 2557.9 | 2186.7 | 1893.1 | 1650.1 | 1491.5 | 1359.9 | 1285.7 | 1198.0 | 1231.7 |
| 12.5° | 3242.9 | 3013.5 | 2470.2 | 2014.6 | 1636.7 | 1380.2 | 1154.1 | 941.5 | 823.4 | 732.3 | 735.6 |
| 15° | 3435.3 | 3134.9 | 2389.2 | 1805.4 | 1403.8 | 1066.4 | 735.6 | 590.5 | 556.8 | 536.6 | 543.3 |
| 17.5° | 3624.3 | 3232.8 | 2264.3 | 1592.8 | 1137.2 | 678.3 | 536.6 | 506.2 | 489.3 | 469.1 | 469.1 |
| 20° | 3853.7 | 3296.9 | 2109.1 | 1397.1 | 782.9 | 502.8 | 458.9 | 438.7 | 411.7 | 384.7 | 388.1 |
| 22.5° | 4076.4 | 3350.9 | 1930.2 | 1147.3 | 526.4 | 435.3 | 384.7 | 357.7 | 334.1 | 307.1 | 307.1 |
| 25° | 4299.2 | 3367.8 | 1697.4 | 823.4 | 425.2 | 347.6 | 300.3 | 263.2 | 239.6 | 216.0 | 219.3 |
| 27.5° | 4451.0 | 3263.2 | 1478.0 | 526.4 | 340.8 | 263.2 | 209.2 | 178.9 | 158.6 | 135.0 | 135.0 |
| 30° | 4538.8 | 3070.8 | 1241.8 | 371.2 | 256.5 | 178.9 | 124.9 | 94.5 | 74.2 | 57.4 | 54.0 |
| 32.5° | 4626.5 | 2915.6 | 975.2 | 283.5 | 168.7 | 94.5 | 47.2 | 16.9 | 0.0 | 0.0 | 0.0 |
| 35° | 4802.0 | 2740.1 | 654.7 | 158.6 | 57.4 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 4913.3 | 2497.2 | 300.3 | 23.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 5193.4 | 2375.7 | 74.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 5649.0 | 2291.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 6148.4 | 2257.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 6813.2 | 2348.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 7515.1 | 2595.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 8284.5 | 2827.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 8956.0 | 3107.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 10191.1 | 3769.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 12408.2 | 5068.6 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 14905.3 | 6033.7 | 37.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 15819.8 | 6010.1 | 64.1 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 66° | 15657.9 | 5679.3 | 64.1 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 14817.6 | 5044.9 | 57.4 | 6.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 12725.4 | 4167.6 | 57.4 | 10.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 9701.8 | 3246.3 | 54.0 | 13.5 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 5854.8 | 1727.8 | 43.9 | 16.9 | 6.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 2331.8 | 607.4 | 33.7 | 13.5 | 6.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 631.0 | 182.2 | 20.2 | 13.5 | 10.1 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 165.4 | 67.5 | 16.9 | 13.5 | 6.7 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 64.1 | 27.0 | 13.5 | 10.1 | 10.1 | 6.7 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 20.2 | 10.1 | 10.1 | 6.7 | 6.7 | 3.4 | 3.4 | 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)