

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: P483127

Luminaire Tested: **IFLD-S-SA6D-727-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483127
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

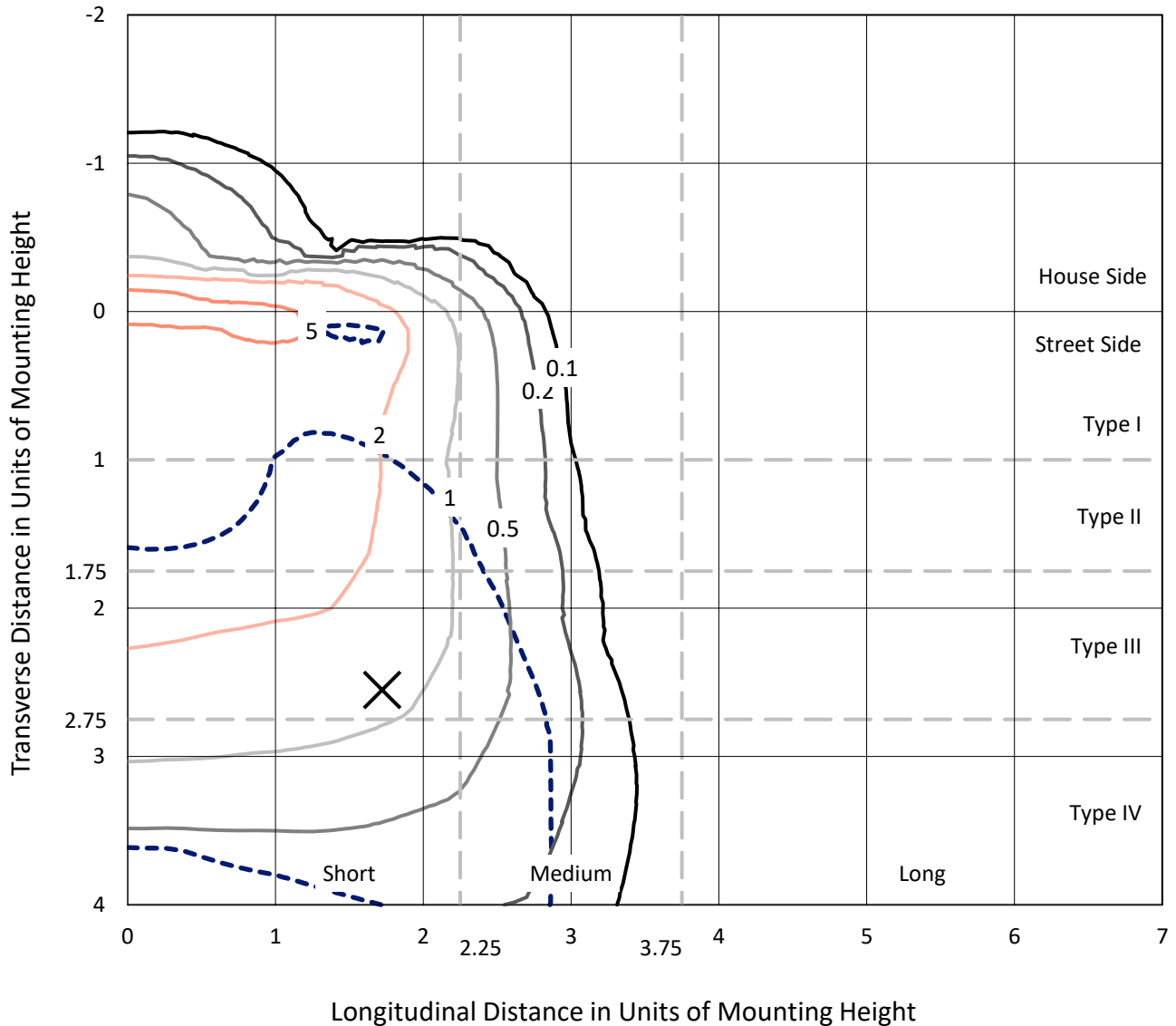
Lumens per Lamp: N/A
Luminaire Lumens: 27648.8 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 368.2
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

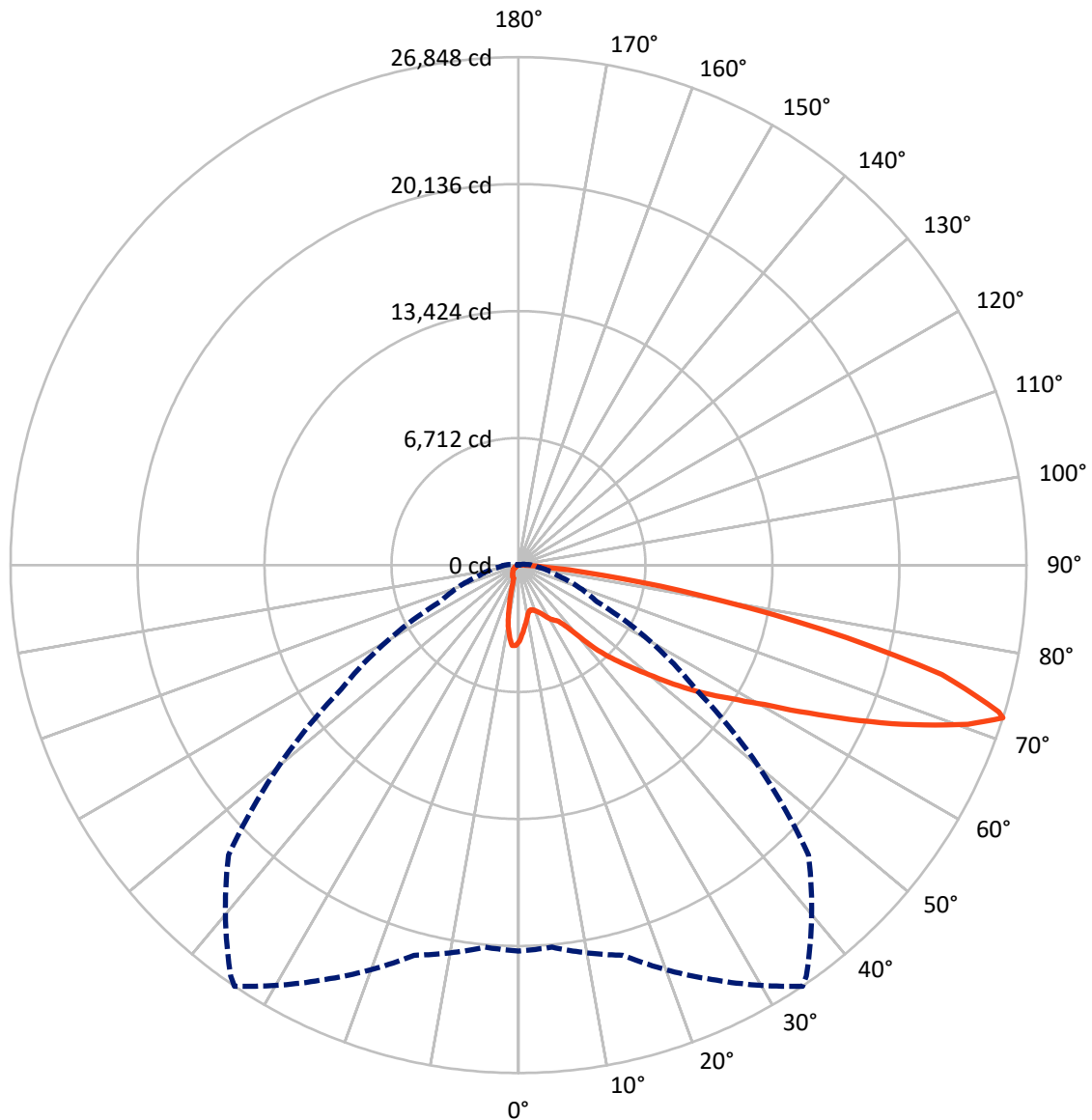
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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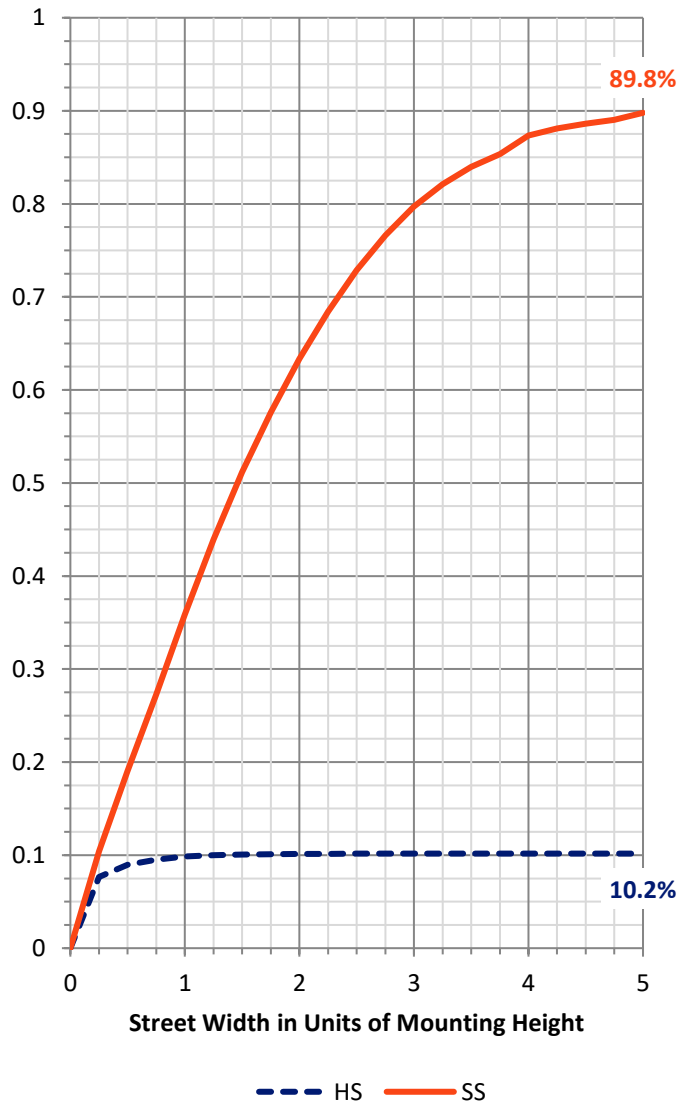
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2830.6 | 0.0 | 2830.6 |
| | % Fixture | 10.2 | 0.0 | 10.2 |
| Street Side | Lumens | 24818.2 | 0.0 | 24818.2 |
| | % Fixture | 89.8 | 0.0 | 89.8 |
| Total | Lumens | 27648.8 | 0.0 | 27648.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 351.1 | 1.3 |
| 10°-20° | 795.0 | 2.9 |
| 20°-30° | 1199.9 | 4.3 |
| 30°-40° | 1947.3 | 7.0 |
| 40°-50° | 3661.8 | 13.2 |
| 50°-60° | 5987.0 | 21.7 |
| 60°-70° | 7958.9 | 28.8 |
| 70°-80° | 5330.0 | 19.3 |
| 80°-90° | 417.7 | 1.5 |
| 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° | 27648.8 | 100.0 |
| 0°-180° | 27648.8 | 100.0 |

Coefficient of Utilization

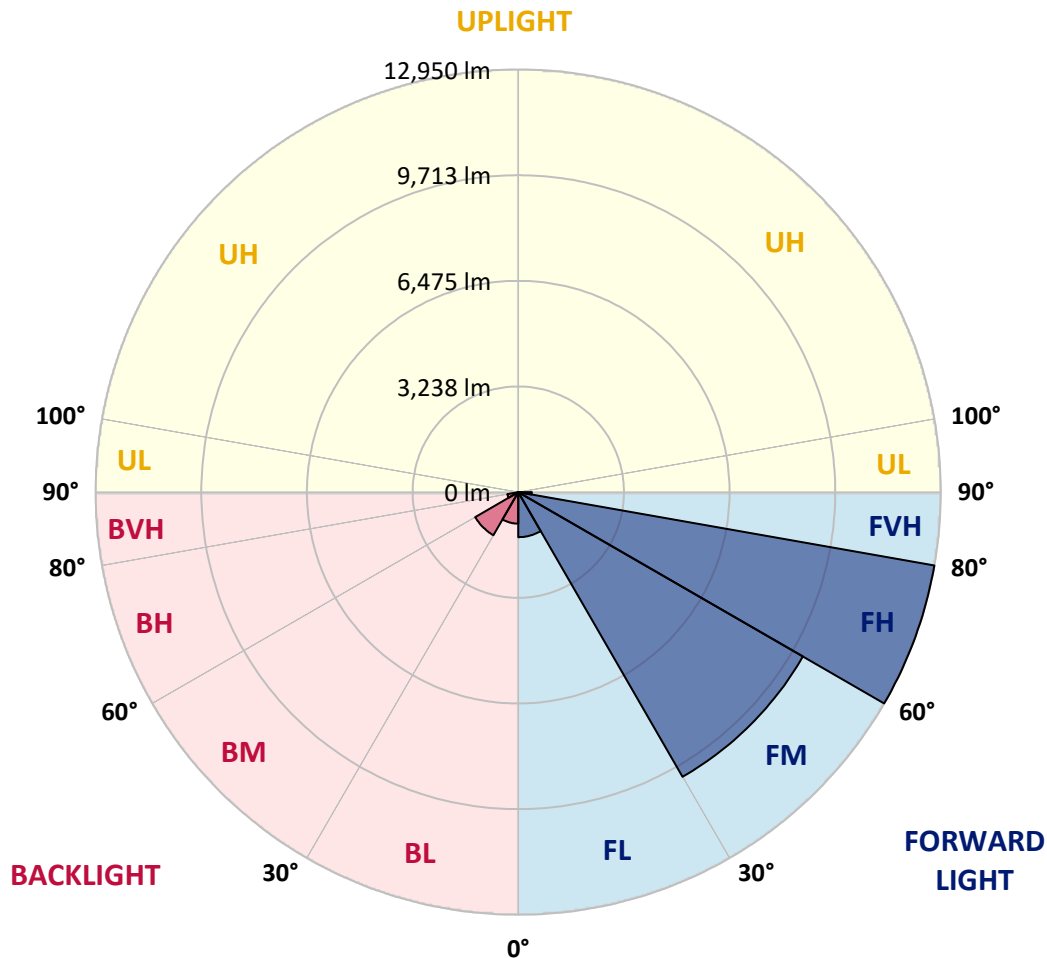


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1380.3 | 5.0 | | | |
| FM (30°-60°) | 10072.4 | 36.4 | | | |
| FH (60°-80°) | 12950.5 | 46.8 | | | G5 |
| FVH (80°-90°) | 415.1 | 1.5 | | | G3/500 |
| BL (0°-30°) | 965.8 | 3.5 | B2/1000 | | |
| BM (30°-60°) | 1523.7 | 5.5 | B2/2500 | | |
| BH (60°-80°) | 338.5 | 1.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.6 | 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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4045.0 | 4045.0 | 4045.0 | 4045.0 | 4045.0 | 4045.0 | 4045.0 | 4045.0 | 4045.0 | 4045.0 | 4045.0 |
| 2.5° | 3577.4 | 3569.4 | 3593.4 | 3633.3 | 3673.3 | 3657.3 | 3733.3 | 3813.2 | 3869.2 | 3945.1 | 4037.1 |
| 5° | 3125.7 | 3145.7 | 3169.7 | 3249.6 | 3301.6 | 3313.6 | 3453.5 | 3557.4 | 3729.3 | 3905.1 | 4069.0 |
| 7.5° | 2714.0 | 2738.0 | 2786.0 | 2873.9 | 2981.8 | 3009.8 | 3149.7 | 3357.5 | 3581.4 | 3813.2 | 4081.0 |
| 10° | 2414.2 | 2438.2 | 2490.2 | 2546.1 | 2690.0 | 2690.0 | 2881.9 | 3169.7 | 3461.5 | 3733.3 | 4085.0 |
| 12.5° | 2350.3 | 2362.3 | 2358.3 | 2402.2 | 2494.2 | 2514.2 | 2702.0 | 3017.8 | 3357.5 | 3705.3 | 4149.0 |
| 15° | 2426.2 | 2434.2 | 2394.3 | 2370.3 | 2450.2 | 2470.2 | 2646.1 | 2925.9 | 3289.6 | 3721.3 | 4252.9 |
| 17.5° | 2578.1 | 2550.1 | 2470.2 | 2434.2 | 2502.2 | 2514.2 | 2678.0 | 2921.9 | 3281.6 | 3765.2 | 4372.8 |
| 20° | 2666.1 | 2698.0 | 2558.1 | 2490.2 | 2586.1 | 2602.1 | 2778.0 | 2985.8 | 3321.6 | 3841.2 | 4540.7 |
| 22.5° | 2821.9 | 2837.9 | 2650.1 | 2606.1 | 2698.0 | 2698.0 | 2897.9 | 3113.7 | 3417.5 | 3965.1 | 4740.5 |
| 25° | 3041.8 | 3021.8 | 2802.0 | 2758.0 | 2845.9 | 2881.9 | 3081.7 | 3317.6 | 3565.4 | 4081.0 | 4924.4 |
| 27.5° | 3213.7 | 3225.6 | 3045.8 | 2929.9 | 3077.8 | 3101.7 | 3317.6 | 3537.4 | 3677.3 | 4176.9 | 5148.2 |
| 30° | 3469.5 | 3445.5 | 3253.6 | 3121.7 | 3305.6 | 3309.6 | 3517.4 | 3745.3 | 3893.2 | 4348.8 | 5484.0 |
| 32.5° | 3773.2 | 3725.3 | 3505.4 | 3317.6 | 3465.5 | 3501.4 | 3713.3 | 4045.0 | 4228.9 | 4672.6 | 6003.6 |
| 35° | 4416.8 | 4300.9 | 3941.1 | 3649.3 | 3661.3 | 3677.3 | 4005.1 | 4480.7 | 4692.6 | 5084.3 | 6699.1 |
| 37.5° | 5356.1 | 5308.1 | 4900.4 | 4344.8 | 4133.0 | 4085.0 | 4452.7 | 5056.3 | 5320.1 | 5627.9 | 7602.4 |
| 40° | 6287.4 | 6219.5 | 5839.7 | 5420.0 | 5036.3 | 4940.4 | 5124.3 | 5819.7 | 6059.6 | 6383.3 | 8529.8 |
| 42.5° | 7322.7 | 7202.7 | 6755.1 | 6415.3 | 6175.5 | 6071.6 | 5999.6 | 6779.0 | 7050.8 | 7270.7 | 9437.1 |
| 45° | 8369.9 | 8174.0 | 7526.5 | 7266.7 | 7138.8 | 7082.8 | 7074.8 | 7986.2 | 8150.0 | 8194.0 | 10444.4 |
| 47.5° | 9289.2 | 9077.4 | 8489.8 | 8198.0 | 8102.1 | 8086.1 | 8533.8 | 9377.2 | 9249.2 | 9133.3 | 11567.6 |
| 50° | 9996.7 | 9860.8 | 9437.1 | 9333.2 | 9261.2 | 9233.3 | 10280.5 | 10808.1 | 10216.5 | 10012.7 | 12554.8 |
| 52.5° | 11091.9 | 10788.1 | 10308.5 | 10344.4 | 10596.3 | 10600.3 | 12051.2 | 12167.1 | 11020.0 | 10616.2 | 13486.1 |
| 55° | 11967.3 | 11767.4 | 11375.7 | 11323.7 | 11987.2 | 12059.2 | 13638.0 | 13198.4 | 11467.6 | 11191.8 | 13829.9 |
| 57.5° | 12998.5 | 12906.6 | 12622.8 | 12630.8 | 13326.3 | 13478.2 | 15049.0 | 14069.7 | 11839.4 | 11563.6 | 13881.9 |
| 60° | 14489.4 | 14225.6 | 14077.7 | 14145.7 | 14965.1 | 15113.0 | 16416.0 | 14697.3 | 12019.2 | 11807.4 | 13754.0 |
| 62.5° | 16136.2 | 15828.4 | 15668.6 | 16016.3 | 17211.4 | 17235.4 | 17455.2 | 15252.9 | 11907.3 | 11871.3 | 12930.6 |
| 65° | 18118.8 | 17815.0 | 17687.1 | 18386.6 | 19805.5 | 19717.6 | 18914.2 | 15488.7 | 11551.6 | 11227.8 | 10768.1 |
| 67.5° | 20093.3 | 19909.5 | 19645.6 | 20760.8 | 22527.5 | 22527.5 | 20429.1 | 15400.7 | 10620.2 | 9013.4 | 7042.9 |
| 70° | 21028.6 | 21156.5 | 21576.2 | 23327.0 | 25201.6 | 25009.7 | 21924.0 | 14389.5 | 7906.2 | 4840.5 | 2770.0 |
| 72° | 20405.1 | 20273.2 | 21356.4 | 24166.3 | 26848.4 | 26532.6 | 21672.2 | 11439.6 | 4568.7 | 2122.4 | 963.3 |
| 72.5° | 19333.9 | 19457.8 | 20948.7 | 24050.4 | 26540.6 | 26800.4 | 21056.6 | 10552.3 | 3757.3 | 1690.8 | 727.5 |
| 75° | 11855.3 | 12067.2 | 15636.6 | 20421.1 | 23127.1 | 22835.3 | 16288.1 | 5028.3 | 1442.9 | 719.5 | 259.8 |
| 77.5° | 4328.8 | 4504.7 | 7586.5 | 12850.6 | 16448.0 | 16264.1 | 9425.1 | 1786.7 | 783.4 | 535.6 | 131.9 |
| 80° | 1127.2 | 1219.1 | 2578.1 | 5927.7 | 9672.9 | 9684.9 | 3945.1 | 715.5 | 531.6 | 439.7 | 79.9 |
| 82.5° | 223.8 | 247.8 | 791.4 | 2306.3 | 4520.7 | 4460.7 | 1247.1 | 383.7 | 399.7 | 359.7 | 56.0 |
| 85° | 28.0 | 36.0 | 167.9 | 783.4 | 1462.9 | 1311.0 | 307.8 | 191.9 | 295.8 | 279.8 | 36.0 |
| 87.5° | 4.0 | 4.0 | 40.0 | 179.9 | 307.8 | 299.8 | 64.0 | 60.0 | 131.9 | 171.9 | 20.0 |
| 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° | 4045.0 | 4045.0 | 4045.0 | 4045.0 | 4045.0 | 4045.0 | 4045.0 | 4045.0 | 4045.0 | 4045.0 | 4045.0 |
| 2.5° | 4089.0 | 4105.0 | 4161.0 | 4208.9 | 4264.9 | 4280.9 | 4256.9 | 4296.9 | 4240.9 | 4272.9 | 4280.9 |
| 5° | 4097.0 | 4188.9 | 4292.9 | 4360.8 | 4344.8 | 4304.9 | 4272.9 | 4165.0 | 4089.0 | 4061.0 | 4121.0 |
| 7.5° | 4153.0 | 4256.9 | 4368.8 | 4368.8 | 4280.9 | 4073.0 | 3873.2 | 3681.3 | 3521.4 | 3441.5 | 3509.4 |
| 10° | 4224.9 | 4332.8 | 4448.8 | 4296.9 | 3969.1 | 3589.4 | 3305.6 | 2945.8 | 2702.0 | 2574.1 | 2586.1 |
| 12.5° | 4320.8 | 4472.7 | 4512.7 | 4161.0 | 3617.4 | 3053.8 | 2538.1 | 2038.5 | 1806.7 | 1622.8 | 1626.8 |
| 15° | 4444.8 | 4592.6 | 4472.7 | 3865.2 | 3169.7 | 2338.3 | 1718.7 | 1243.1 | 1059.2 | 963.3 | 963.3 |
| 17.5° | 4608.6 | 4720.6 | 4460.7 | 3593.4 | 2566.1 | 1598.8 | 1055.2 | 839.4 | 799.4 | 783.4 | 783.4 |
| 20° | 4800.5 | 4884.4 | 4344.8 | 3169.7 | 1906.6 | 1027.2 | 775.4 | 751.5 | 755.4 | 747.5 | 747.5 |
| 22.5° | 5016.3 | 5044.3 | 4212.9 | 2678.0 | 1291.1 | 759.4 | 723.5 | 727.5 | 731.5 | 723.5 | 727.5 |
| 25° | 5244.2 | 5168.2 | 4021.1 | 2102.5 | 859.4 | 691.5 | 699.5 | 707.5 | 711.5 | 715.5 | 715.5 |
| 27.5° | 5500.0 | 5348.1 | 3753.3 | 1538.9 | 671.5 | 651.5 | 675.5 | 699.5 | 703.5 | 703.5 | 699.5 |
| 30° | 5875.7 | 5623.9 | 3493.4 | 1043.2 | 591.6 | 607.6 | 647.5 | 675.5 | 695.5 | 695.5 | 691.5 |
| 32.5° | 6351.4 | 5911.7 | 3129.7 | 711.5 | 547.6 | 555.6 | 587.6 | 643.5 | 687.5 | 691.5 | 679.5 |
| 35° | 7010.9 | 6259.4 | 2750.0 | 567.6 | 515.6 | 519.6 | 539.6 | 583.6 | 659.5 | 683.5 | 679.5 |
| 37.5° | 7706.4 | 6655.1 | 2278.3 | 511.6 | 491.6 | 487.6 | 499.6 | 535.6 | 603.6 | 663.5 | 667.5 |
| 40° | 8445.8 | 7070.8 | 1782.7 | 483.6 | 471.7 | 463.7 | 467.7 | 483.6 | 535.6 | 611.6 | 627.5 |
| 42.5° | 9141.3 | 7446.6 | 1339.0 | 455.7 | 451.7 | 443.7 | 443.7 | 447.7 | 475.7 | 527.6 | 535.6 |
| 45° | 9892.8 | 7754.3 | 1019.3 | 435.7 | 423.7 | 427.7 | 411.7 | 403.7 | 423.7 | 427.7 | 423.7 |
| 47.5° | 10596.3 | 8062.1 | 815.4 | 411.7 | 399.7 | 399.7 | 379.7 | 363.7 | 363.7 | 327.8 | 323.8 |
| 50° | 11255.8 | 8230.0 | 651.5 | 379.7 | 375.7 | 371.7 | 343.7 | 315.8 | 291.8 | 247.8 | 239.8 |
| 52.5° | 11803.4 | 8222.0 | 503.6 | 339.8 | 351.7 | 339.8 | 295.8 | 255.8 | 219.8 | 179.9 | 171.9 |
| 55° | 11967.3 | 7838.3 | 379.7 | 279.8 | 299.8 | 283.8 | 235.8 | 199.9 | 159.9 | 127.9 | 123.9 |
| 57.5° | 11827.4 | 7254.7 | 287.8 | 215.8 | 231.8 | 215.8 | 179.9 | 147.9 | 111.9 | 87.9 | 79.9 |
| 60° | 11359.7 | 6571.2 | 223.8 | 167.9 | 175.9 | 163.9 | 135.9 | 111.9 | 79.9 | 56.0 | 48.0 |
| 62.5° | 10472.4 | 5715.8 | 171.9 | 131.9 | 127.9 | 127.9 | 103.9 | 83.9 | 56.0 | 32.0 | 28.0 |
| 65° | 8593.7 | 4456.7 | 131.9 | 91.9 | 91.9 | 91.9 | 79.9 | 60.0 | 36.0 | 16.0 | 8.0 |
| 67.5° | 5396.1 | 2594.1 | 107.9 | 71.9 | 68.0 | 68.0 | 56.0 | 40.0 | 20.0 | 4.0 | 0.0 |
| 70° | 2030.5 | 951.3 | 83.9 | 56.0 | 52.0 | 52.0 | 40.0 | 24.0 | 12.0 | 0.0 | 0.0 |
| 72° | 699.5 | 363.7 | 68.0 | 40.0 | 40.0 | 36.0 | 28.0 | 20.0 | 8.0 | 0.0 | 0.0 |
| 72.5° | 575.6 | 291.8 | 64.0 | 40.0 | 36.0 | 36.0 | 28.0 | 20.0 | 8.0 | 0.0 | 0.0 |
| 75° | 207.8 | 119.9 | 44.0 | 28.0 | 24.0 | 24.0 | 20.0 | 12.0 | 4.0 | 0.0 | 0.0 |
| 77.5° | 103.9 | 75.9 | 36.0 | 24.0 | 20.0 | 12.0 | 12.0 | 8.0 | 4.0 | 0.0 | 0.0 |
| 80° | 64.0 | 48.0 | 20.0 | 16.0 | 12.0 | 8.0 | 4.0 | 4.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 44.0 | 28.0 | 12.0 | 12.0 | 8.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 28.0 | 12.0 | 8.0 | 8.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 12.0 | 8.0 | 4.0 | 0.0 | 0.0 | 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)