

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: P481409

Luminaire Tested: **IFLD-S-SA6B-827-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481409
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-827-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

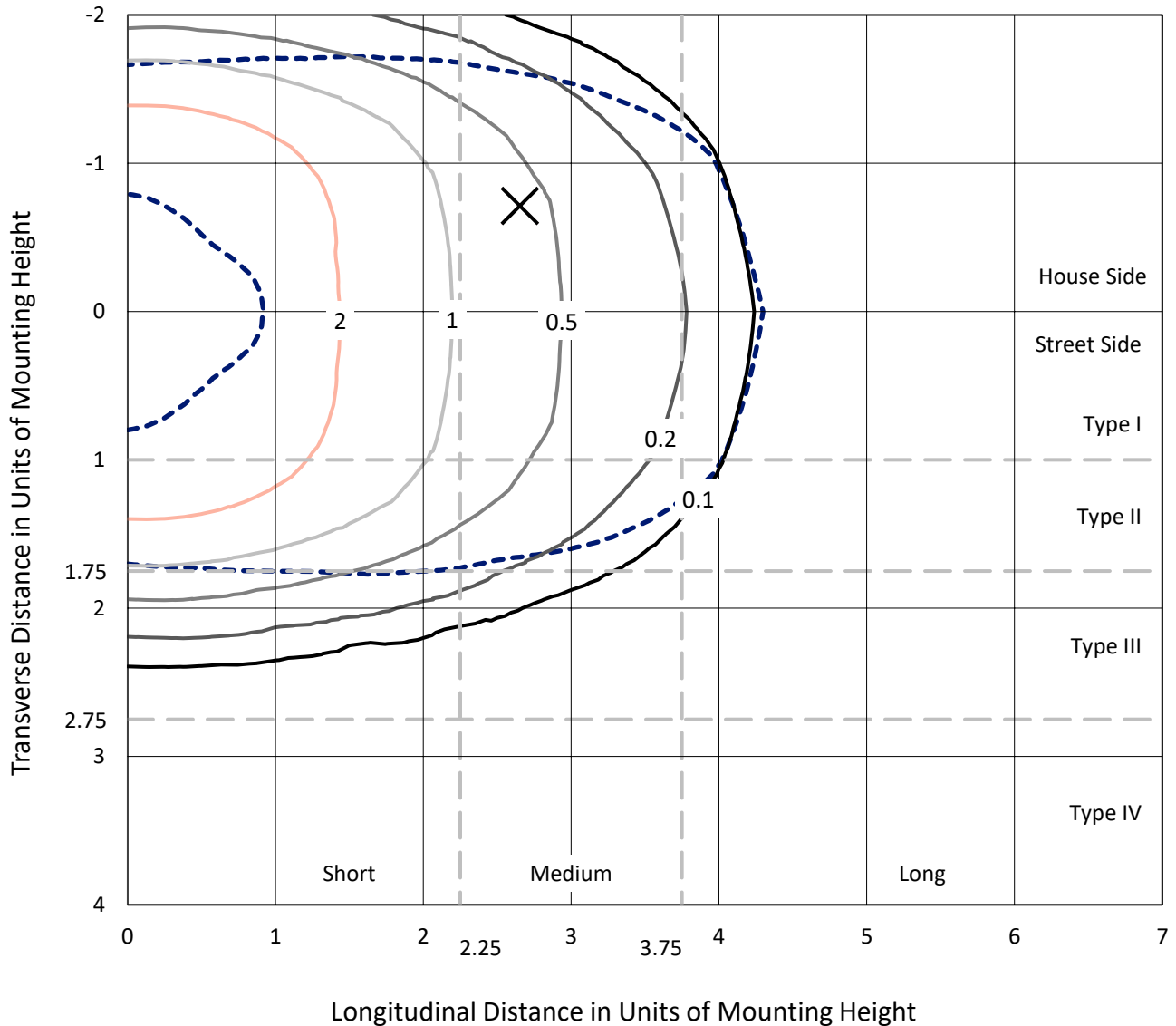
Lumens per Lamp: N/A
Luminaire Lumens: 25274.2 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

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

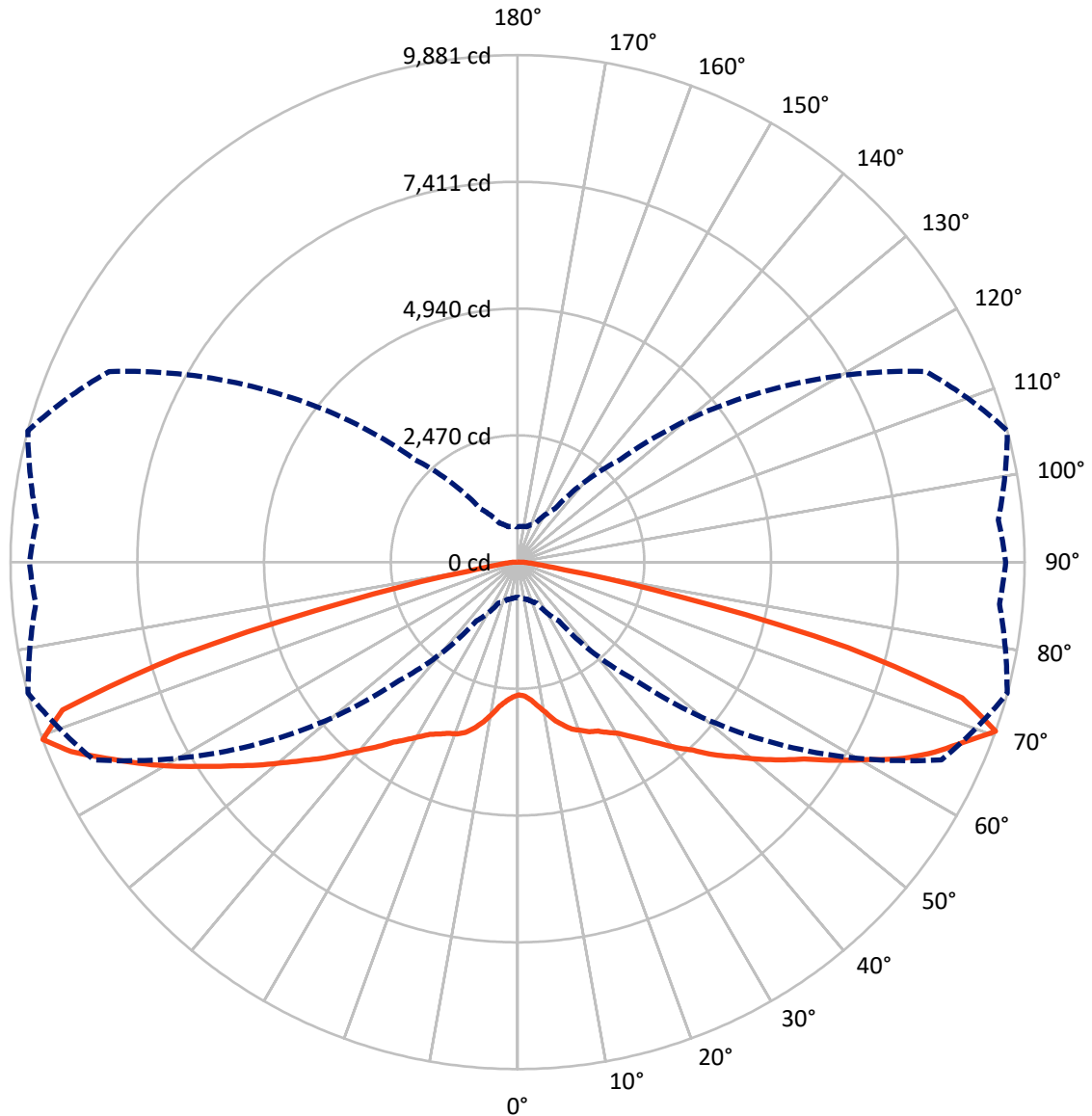
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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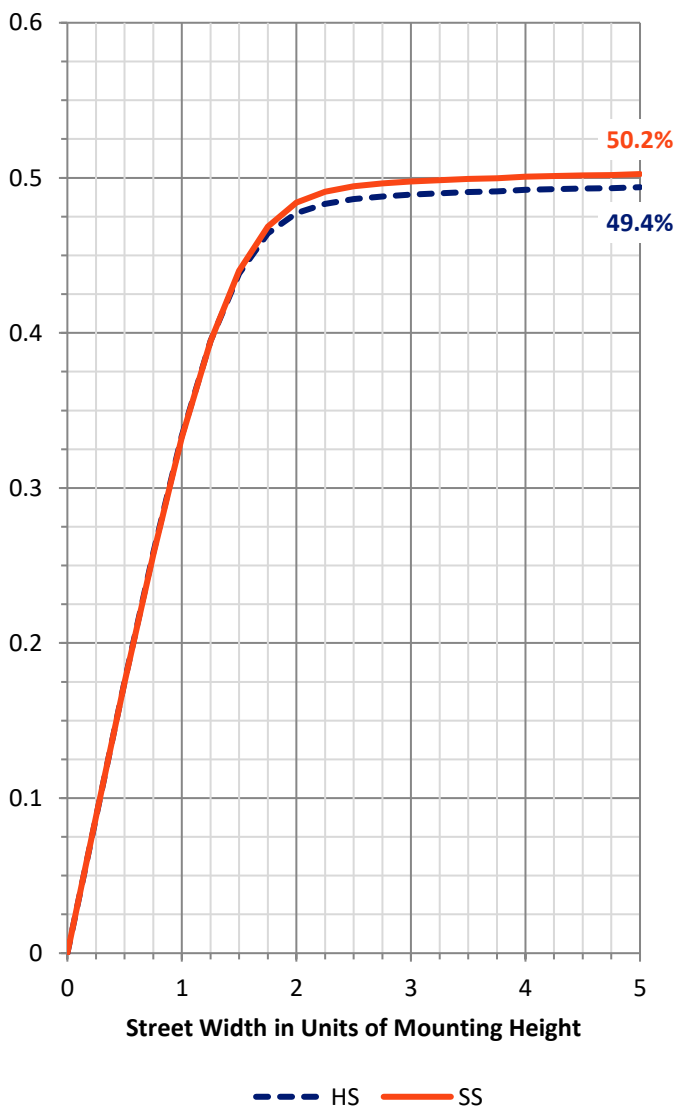
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12547.2 | 0.0 | 12547.2 |
| | % Fixture | 49.6 | 0.0 | 49.6 |
| Street Side | Lumens | 12727.0 | 0.0 | 12727.0 |
| | % Fixture | 50.4 | 0.0 | 50.4 |
| Total | Lumens | 25274.2 | 0.0 | 25274.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 257.6 | 1.0 |
| 10°-20° | 877.1 | 3.5 |
| 20°-30° | 1698.4 | 6.7 |
| 30°-40° | 2872.6 | 11.4 |
| 40°-50° | 4582.7 | 18.1 |
| 50°-60° | 6272.7 | 24.8 |
| 60°-70° | 5912.5 | 23.4 |
| 70°-80° | 2604.6 | 10.3 |
| 80°-90° | 196.0 | 0.8 |
| 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° | 25274.2 | 100.0 |
| 0°-180° | 25274.2 | 100.0 |

Coefficient of Utilization

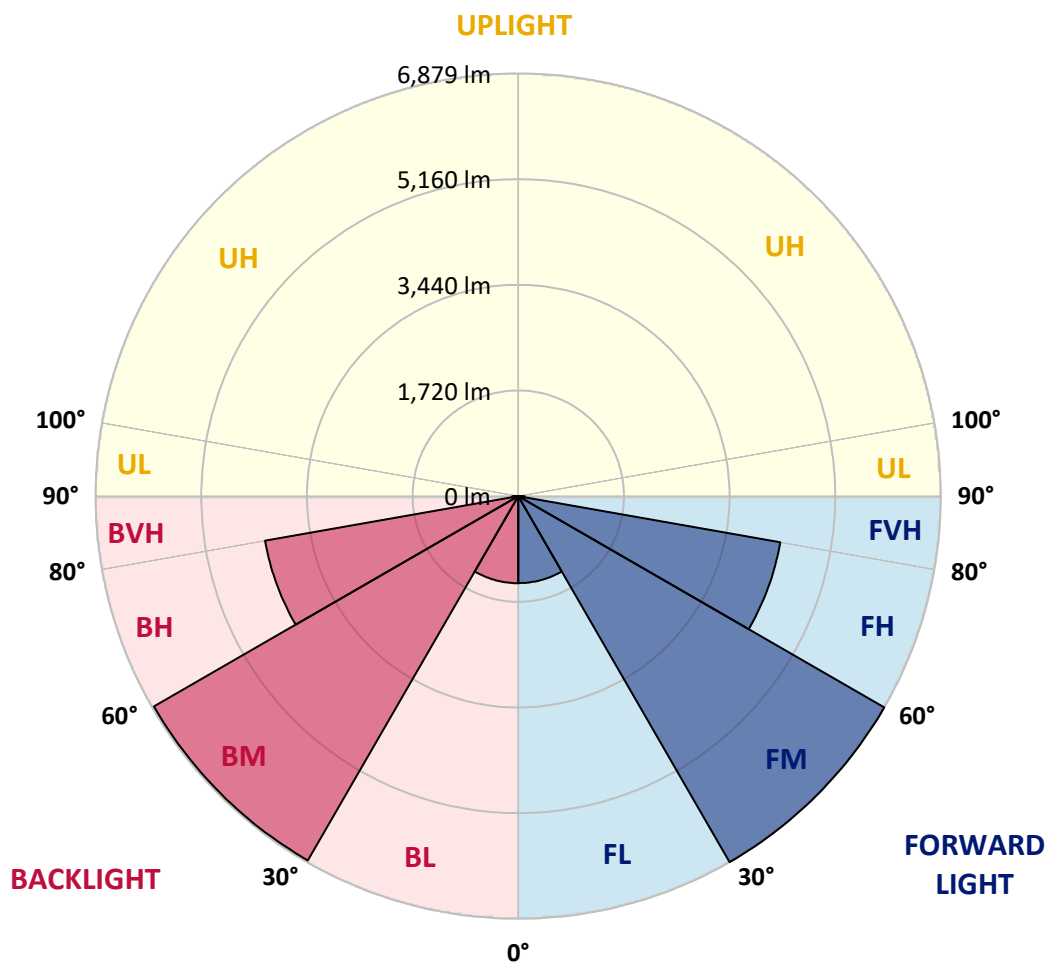


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1415.8 | 5.6 | | | |
| FM (30°-60°) | 6879.4 | 27.2 | | | |
| FH (60°-80°) | 4331.7 | 17.1 | | | G2/5000 |
| FVH (80°-90°) | 100.1 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1417.3 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 6848.7 | 27.1 | B4/8500 | | |
| BH (60°-80°) | 4185.4 | 16.6 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 95.9 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2588.1 | 2588.1 | 2588.1 | 2588.1 | 2588.1 | 2588.1 | 2588.1 | 2588.1 | 2588.1 | 2588.1 | 2588.1 |
| 2.5° | 2571.7 | 2571.7 | 2569.0 | 2582.6 | 2596.2 | 2601.7 | 2612.6 | 2615.3 | 2631.6 | 2618.0 | 2645.3 |
| 5° | 2563.5 | 2560.8 | 2582.6 | 2615.3 | 2615.3 | 2650.7 | 2672.5 | 2702.5 | 2710.6 | 2727.0 | 2732.4 |
| 7.5° | 2620.7 | 2615.3 | 2604.4 | 2639.8 | 2669.8 | 2724.3 | 2754.2 | 2806.0 | 2825.1 | 2846.9 | 2871.4 |
| 10° | 2656.2 | 2656.2 | 2645.3 | 2707.9 | 2735.2 | 2808.7 | 2874.1 | 2925.9 | 2999.4 | 3023.9 | 3026.7 |
| 12.5° | 2661.6 | 2669.8 | 2702.5 | 2784.2 | 2860.5 | 2955.8 | 3004.9 | 3102.9 | 3176.5 | 3222.8 | 3239.2 |
| 15° | 2743.3 | 2727.0 | 2762.4 | 2874.1 | 2985.8 | 3070.2 | 3157.4 | 3228.3 | 3334.5 | 3394.4 | 3432.6 |
| 17.5° | 2816.9 | 2800.5 | 2865.9 | 2999.4 | 3113.8 | 3244.6 | 3320.9 | 3397.2 | 3473.4 | 3527.9 | 3530.6 |
| 20° | 2934.0 | 2947.7 | 3004.9 | 3149.3 | 3299.1 | 3413.5 | 3500.7 | 3514.3 | 3552.4 | 3631.4 | 3617.8 |
| 22.5° | 3078.4 | 3067.5 | 3187.4 | 3345.4 | 3508.9 | 3604.2 | 3653.2 | 3617.8 | 3598.8 | 3683.2 | 3702.3 |
| 25° | 3222.8 | 3255.5 | 3364.5 | 3511.6 | 3707.7 | 3835.8 | 3849.4 | 3751.3 | 3680.5 | 3710.4 | 3702.3 |
| 27.5° | 3443.5 | 3448.9 | 3563.3 | 3737.7 | 3936.6 | 4048.3 | 4040.1 | 3901.1 | 3764.9 | 3767.7 | 3773.1 |
| 30° | 3726.8 | 3699.6 | 3824.9 | 3982.9 | 4179.0 | 4279.8 | 4293.4 | 4094.6 | 3912.0 | 3857.6 | 3871.2 |
| 32.5° | 3999.2 | 4031.9 | 4140.9 | 4320.7 | 4465.1 | 4522.3 | 4492.3 | 4315.2 | 4078.2 | 4004.7 | 4012.8 |
| 35° | 4347.9 | 4342.5 | 4492.3 | 4644.9 | 4753.8 | 4764.7 | 4740.2 | 4481.4 | 4258.0 | 4162.7 | 4124.5 |
| 37.5° | 4721.2 | 4770.2 | 4868.3 | 4993.6 | 5108.0 | 5113.4 | 4980.0 | 4772.9 | 4497.8 | 4339.8 | 4386.1 |
| 40° | 5138.0 | 5192.5 | 5263.3 | 5445.8 | 5530.3 | 5443.1 | 5306.9 | 5026.3 | 4740.2 | 4601.3 | 4623.1 |
| 42.5° | 5505.7 | 5530.3 | 5674.6 | 5889.9 | 5930.7 | 5892.6 | 5691.0 | 5350.5 | 5018.1 | 4865.5 | 4876.4 |
| 45° | 5843.5 | 5876.2 | 6064.2 | 6257.6 | 6353.0 | 6287.6 | 6053.3 | 5729.1 | 5342.3 | 5211.5 | 5159.8 |
| 47.5° | 6154.1 | 6219.5 | 6402.0 | 6600.9 | 6748.0 | 6753.5 | 6464.7 | 6072.4 | 5663.7 | 5492.1 | 5489.4 |
| 50° | 6363.9 | 6459.2 | 6639.0 | 6865.1 | 7080.4 | 7164.8 | 6876.0 | 6453.8 | 6015.2 | 5832.7 | 5813.6 |
| 52.5° | 6478.3 | 6576.4 | 6756.2 | 7107.6 | 7347.3 | 7478.1 | 7341.9 | 6810.7 | 6426.5 | 6235.8 | 6205.9 |
| 55° | 6339.4 | 6404.7 | 6699.0 | 7192.1 | 7562.6 | 7777.8 | 7687.9 | 7303.8 | 6835.2 | 6679.9 | 6707.1 |
| 57.5° | 5748.2 | 5884.4 | 6246.7 | 6862.4 | 7557.1 | 8085.6 | 8077.4 | 7769.6 | 7306.5 | 7159.4 | 7164.8 |
| 60° | 4732.0 | 4846.5 | 5293.2 | 6154.1 | 7252.0 | 8210.9 | 8499.7 | 8221.8 | 7835.0 | 7663.4 | 7657.9 |
| 62.5° | 3339.9 | 3484.3 | 4001.9 | 4941.8 | 6353.0 | 8036.6 | 8984.6 | 8791.2 | 8352.6 | 8227.3 | 8273.6 |
| 65° | 1868.8 | 1956.0 | 2435.5 | 3285.5 | 4841.0 | 7077.6 | 9071.8 | 9382.4 | 8878.4 | 8687.7 | 8695.9 |
| 67.5° | 999.8 | 1032.5 | 1255.9 | 1724.5 | 2961.3 | 5456.7 | 8191.9 | 9722.9 | 9447.8 | 9118.1 | 9066.4 |
| 70° | 686.5 | 697.4 | 754.6 | 882.7 | 1400.3 | 3263.7 | 6178.6 | 9115.4 | 9875.5 | 9426.0 | 9513.1 |
| 72.5° | 580.3 | 574.8 | 588.4 | 602.1 | 732.8 | 1460.2 | 3626.0 | 7015.0 | 9322.4 | 9153.5 | 9120.8 |
| 75° | 504.0 | 501.3 | 506.7 | 493.1 | 509.4 | 642.9 | 1604.6 | 4372.4 | 6824.3 | 7617.0 | 7739.6 |
| 77.5° | 416.8 | 419.5 | 422.3 | 408.6 | 403.2 | 425.0 | 645.7 | 1920.6 | 3359.0 | 3707.7 | 3999.2 |
| 80° | 316.0 | 321.5 | 343.3 | 329.6 | 307.8 | 310.6 | 381.4 | 642.9 | 964.4 | 874.5 | 901.7 |
| 82.5° | 215.2 | 217.9 | 264.3 | 247.9 | 231.6 | 209.8 | 245.2 | 332.4 | 375.9 | 286.0 | 250.6 |
| 85° | 152.6 | 149.8 | 171.6 | 158.0 | 147.1 | 106.2 | 147.1 | 188.0 | 226.1 | 141.7 | 128.0 |
| 87.5° | 35.4 | 35.4 | 70.8 | 57.2 | 54.5 | 43.6 | 57.2 | 73.6 | 98.1 | 62.7 | 57.2 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2588.1 | 2588.1 | 2588.1 | 2588.1 | 2588.1 | 2588.1 | 2588.1 | 2588.1 | 2588.1 | 2588.1 |
| 2.5° | 2637.1 | 2612.6 | 2612.6 | 2607.1 | 2585.3 | 2579.9 | 2560.8 | 2566.3 | 2552.6 | 2539.0 |
| 5° | 2729.7 | 2697.0 | 2697.0 | 2650.7 | 2607.1 | 2601.7 | 2579.9 | 2579.9 | 2558.1 | 2563.5 |
| 7.5° | 2857.8 | 2827.8 | 2778.8 | 2737.9 | 2678.0 | 2653.4 | 2612.6 | 2607.1 | 2601.7 | 2590.8 |
| 10° | 3010.3 | 2972.2 | 2923.1 | 2838.7 | 2789.6 | 2743.3 | 2702.5 | 2645.3 | 2631.6 | 2634.4 |
| 12.5° | 3217.4 | 3157.4 | 3051.2 | 2977.6 | 2915.0 | 2855.0 | 2795.1 | 2710.6 | 2691.6 | 2699.7 |
| 15° | 3364.5 | 3288.2 | 3181.9 | 3154.7 | 3070.2 | 2996.7 | 2898.6 | 2803.3 | 2770.6 | 2762.4 |
| 17.5° | 3484.3 | 3421.7 | 3359.0 | 3318.2 | 3250.0 | 3160.1 | 3023.9 | 2915.0 | 2841.4 | 2833.2 |
| 20° | 3582.4 | 3500.7 | 3487.1 | 3511.6 | 3427.1 | 3367.2 | 3201.0 | 3067.5 | 2969.4 | 2928.6 |
| 22.5° | 3642.3 | 3590.6 | 3628.7 | 3650.5 | 3645.1 | 3544.3 | 3372.6 | 3217.4 | 3094.8 | 3056.6 |
| 25° | 3707.7 | 3647.8 | 3784.0 | 3857.6 | 3876.6 | 3710.4 | 3577.0 | 3372.6 | 3252.8 | 3228.3 |
| 27.5° | 3740.4 | 3762.2 | 3920.2 | 4075.5 | 4061.9 | 3933.8 | 3754.0 | 3571.5 | 3476.2 | 3432.6 |
| 30° | 3835.8 | 3871.2 | 4110.9 | 4285.3 | 4288.0 | 4162.7 | 4026.5 | 3819.4 | 3713.2 | 3694.1 |
| 32.5° | 4007.4 | 4051.0 | 4307.1 | 4492.3 | 4525.0 | 4429.7 | 4293.4 | 4165.4 | 4056.4 | 4012.8 |
| 35° | 4138.2 | 4249.9 | 4538.6 | 4707.5 | 4794.7 | 4737.5 | 4661.2 | 4527.7 | 4413.3 | 4375.2 |
| 37.5° | 4326.1 | 4481.4 | 4759.3 | 4988.1 | 5086.2 | 5080.8 | 5023.5 | 4879.2 | 4783.8 | 4751.1 |
| 40° | 4595.8 | 4751.1 | 5004.5 | 5306.9 | 5489.4 | 5481.2 | 5448.5 | 5336.8 | 5195.2 | 5178.8 |
| 42.5° | 4881.9 | 5009.9 | 5339.6 | 5685.5 | 5947.1 | 5919.8 | 5832.7 | 5701.9 | 5603.8 | 5582.0 |
| 45° | 5159.8 | 5358.6 | 5663.7 | 6107.8 | 6304.0 | 6372.1 | 6268.5 | 6045.1 | 5933.5 | 5919.8 |
| 47.5° | 5508.5 | 5666.5 | 6047.9 | 6445.6 | 6737.1 | 6748.0 | 6570.9 | 6363.9 | 6159.6 | 6203.2 |
| 50° | 5819.0 | 6028.8 | 6415.6 | 6851.5 | 7200.2 | 7074.9 | 6848.8 | 6590.0 | 6442.9 | 6385.7 |
| 52.5° | 6151.4 | 6407.5 | 6857.0 | 7301.0 | 7494.5 | 7369.1 | 7001.4 | 6712.6 | 6489.2 | 6464.7 |
| 55° | 6636.3 | 6769.8 | 7358.2 | 7698.8 | 7761.4 | 7497.2 | 6955.0 | 6546.4 | 6257.6 | 6186.8 |
| 57.5° | 7129.4 | 7284.7 | 7799.6 | 8093.8 | 8028.4 | 7426.3 | 6655.4 | 6023.4 | 5644.7 | 5543.9 |
| 60° | 7627.9 | 7818.6 | 8251.8 | 8521.5 | 8183.7 | 6938.7 | 5808.1 | 4993.6 | 4552.2 | 4462.3 |
| 62.5° | 8183.7 | 8431.6 | 8818.4 | 8913.8 | 7723.3 | 5974.3 | 4609.5 | 3604.2 | 3157.4 | 3007.6 |
| 65° | 8676.8 | 8930.1 | 9406.9 | 8832.1 | 6745.3 | 4456.9 | 2980.3 | 2059.5 | 1729.9 | 1610.0 |
| 67.5° | 9082.7 | 9368.7 | 9603.0 | 7815.9 | 4939.1 | 2609.8 | 1552.8 | 1084.3 | 961.7 | 918.1 |
| 70° | 9404.2 | 9880.9 | 8785.8 | 5745.5 | 2822.3 | 1272.2 | 839.1 | 713.8 | 697.4 | 686.5 |
| 72.5° | 9123.6 | 9060.9 | 6560.0 | 3315.4 | 1236.8 | 700.1 | 607.5 | 588.4 | 585.7 | 588.4 |
| 75° | 7461.8 | 6655.4 | 3922.9 | 1441.1 | 621.1 | 506.7 | 504.0 | 495.8 | 509.4 | 509.4 |
| 77.5° | 3620.5 | 3165.6 | 1640.0 | 618.4 | 408.6 | 397.7 | 411.4 | 411.4 | 411.4 | 411.4 |
| 80° | 839.1 | 929.0 | 585.7 | 375.9 | 296.9 | 296.9 | 326.9 | 329.6 | 316.0 | 310.6 |
| 82.5° | 286.0 | 381.4 | 321.5 | 237.0 | 196.1 | 220.7 | 247.9 | 253.4 | 209.8 | 212.5 |
| 85° | 141.7 | 223.4 | 174.4 | 136.2 | 100.8 | 136.2 | 160.7 | 168.9 | 144.4 | 138.9 |
| 87.5° | 65.4 | 98.1 | 65.4 | 46.3 | 35.4 | 49.0 | 46.3 | 38.1 | 21.8 | 21.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)