

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: P481202

Luminaire Tested: **IFLD-S-SA3E-730-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481202
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-730-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

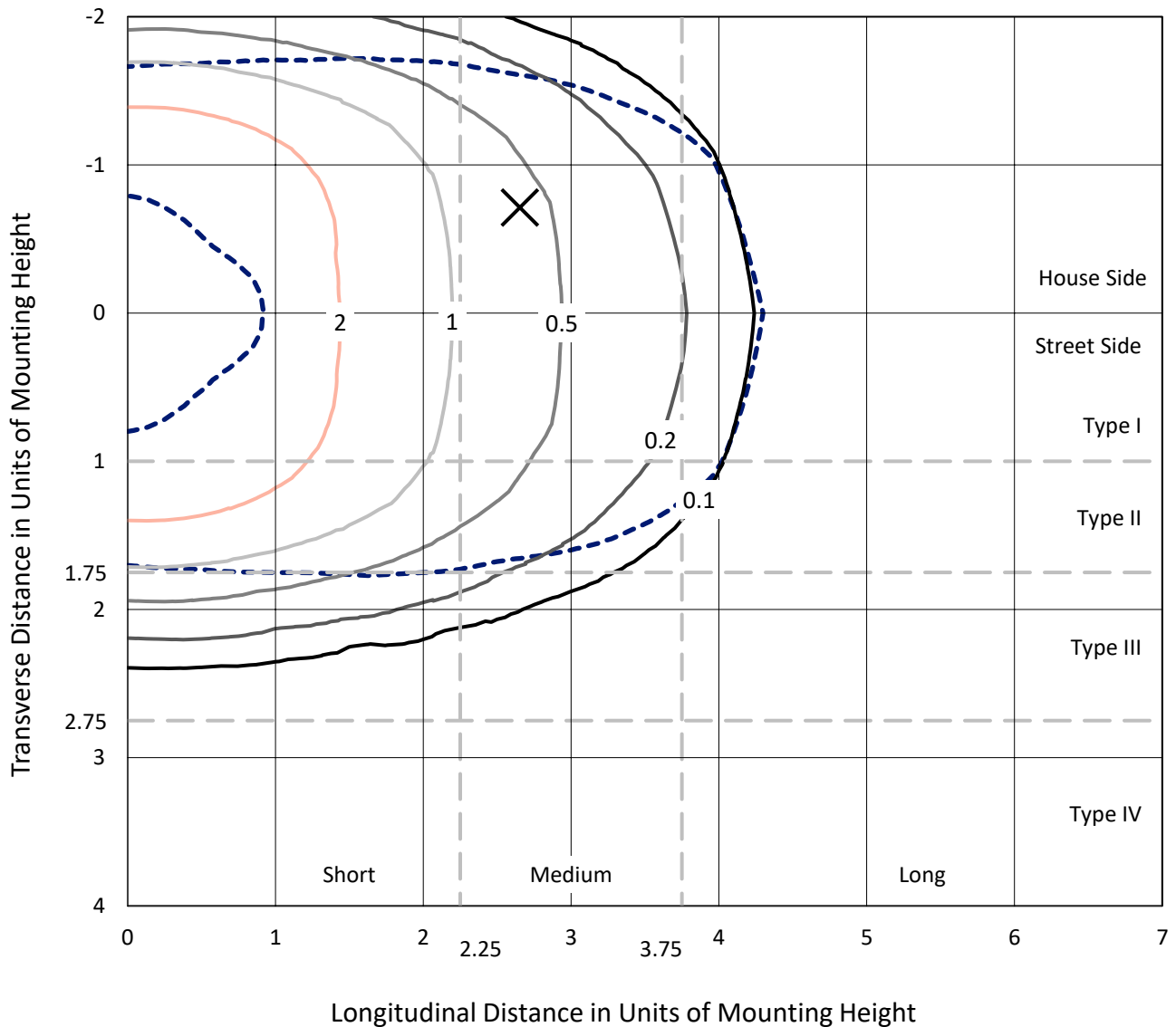
Lumens per Lamp: N/A
Luminaire Lumens: 25299.5 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 232.1
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

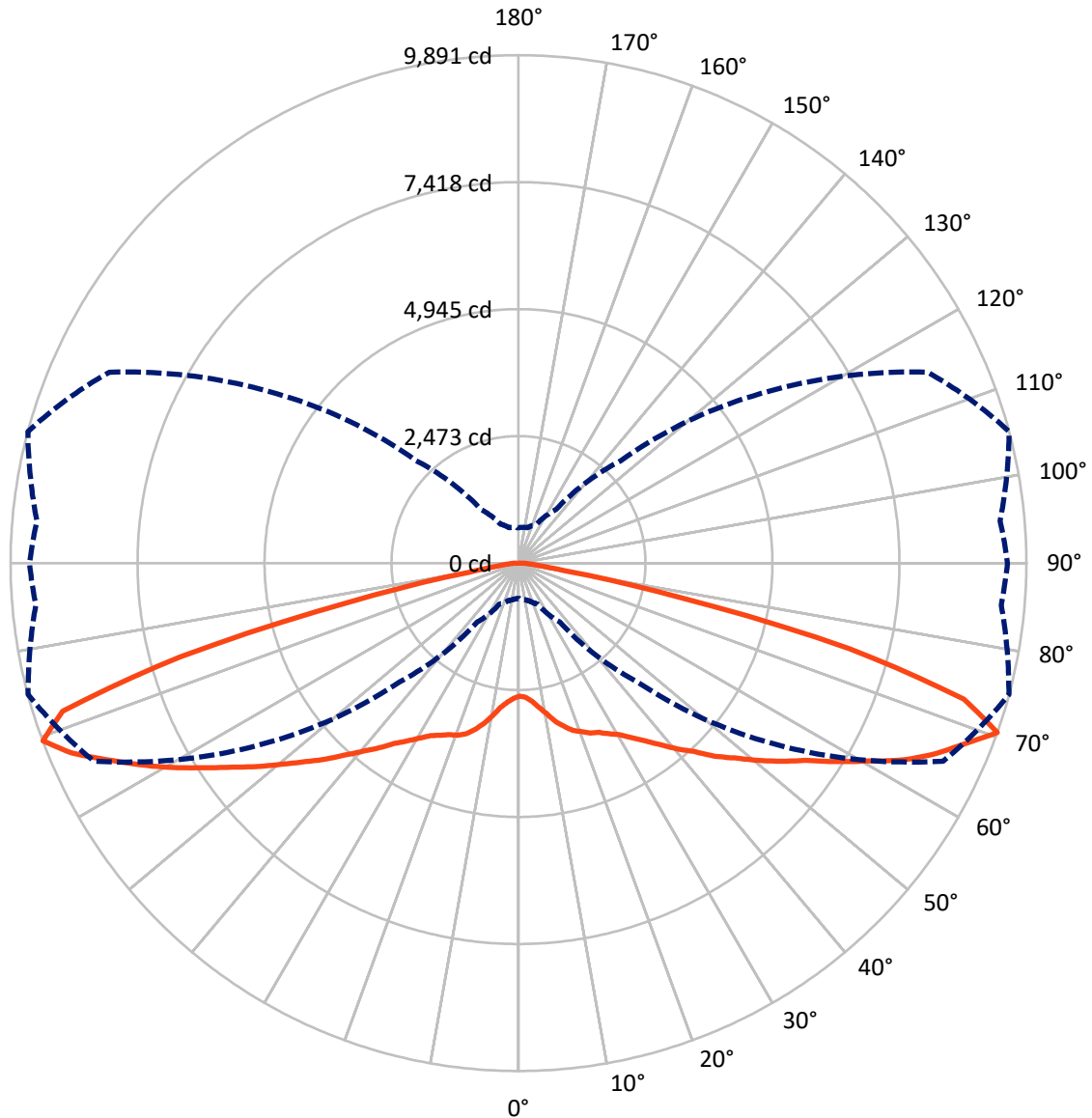
× Max cd
 - - - 1/2 Max cd



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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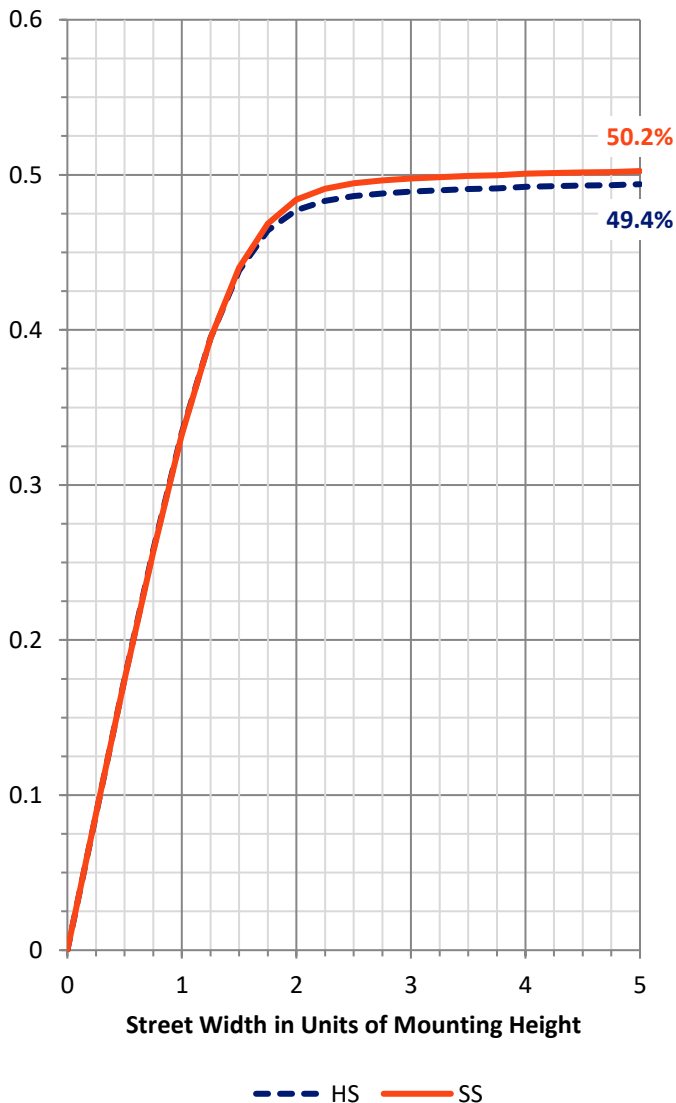
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12559.7 | 0.0 | 12559.7 |
| | % Fixture | 49.6 | 0.0 | 49.6 |
| Street Side | Lumens | 12739.7 | 0.0 | 12739.7 |
| | % Fixture | 50.4 | 0.0 | 50.4 |
| Total | Lumens | 25299.5 | 0.0 | 25299.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 257.9 | 1.0 |
| 10°-20° | 878.0 | 3.5 |
| 20°-30° | 1700.1 | 6.7 |
| 30°-40° | 2875.5 | 11.4 |
| 40°-50° | 4587.3 | 18.1 |
| 50°-60° | 6279.0 | 24.8 |
| 60°-70° | 5918.4 | 23.4 |
| 70°-80° | 2607.2 | 10.3 |
| 80°-90° | 196.2 | 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° | 25299.5 | 100.0 |
| 0°-180° | 25299.5 | 100.0 |



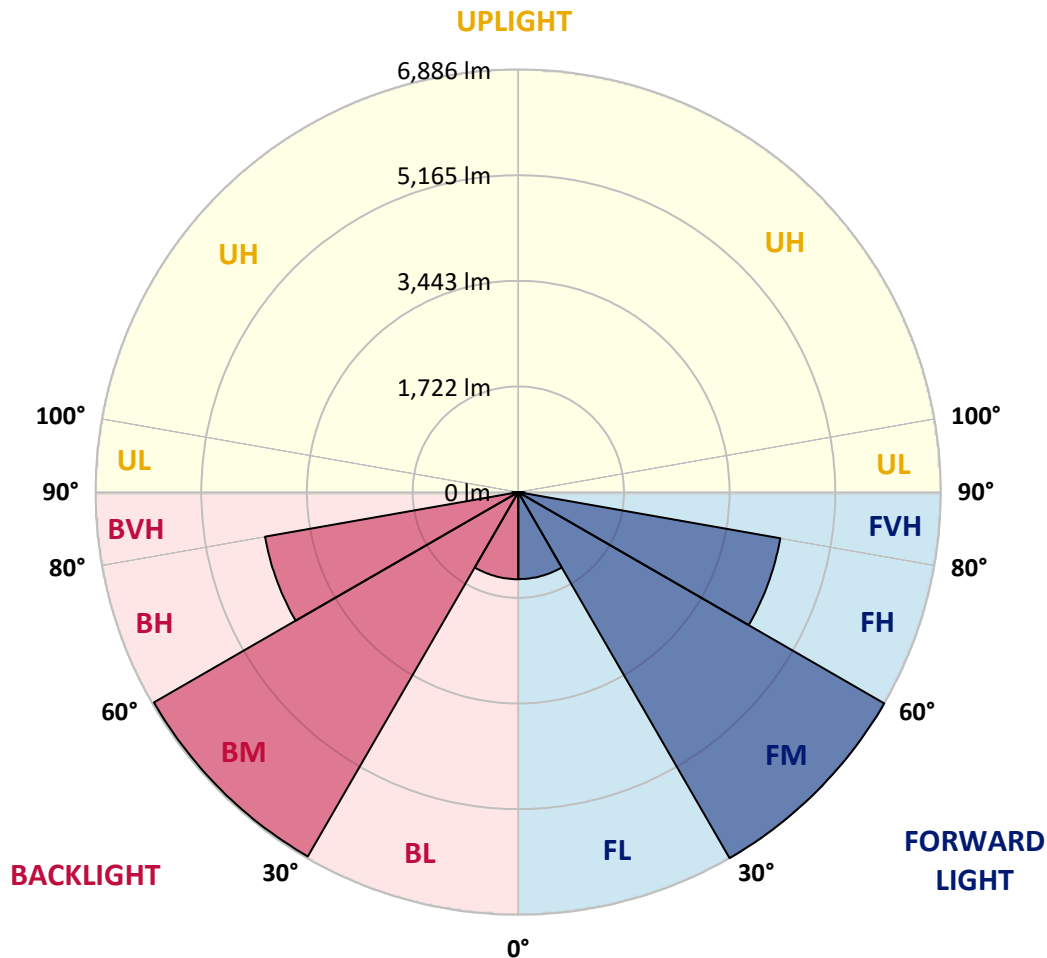
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1417.2 | 5.6 | | | |
| FM (30°-60°) | 6886.3 | 27.2 | | | |
| FH (60°-80°) | 4336.1 | 17.1 | | | G2/5000 |
| FVH (80°-90°) | 100.2 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1418.7 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 6855.5 | 27.1 | B4/8500 | | |
| BH (60°-80°) | 4189.5 | 16.6 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 96.0 | 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° | 2590.6 | 2590.6 | 2590.6 | 2590.6 | 2590.6 | 2590.6 | 2590.6 | 2590.6 | 2590.6 | 2590.6 | 2590.6 |
| 2.5° | 2574.3 | 2574.3 | 2571.6 | 2585.2 | 2598.8 | 2604.3 | 2615.2 | 2617.9 | 2634.3 | 2620.6 | 2647.9 |
| 5° | 2566.1 | 2563.4 | 2585.2 | 2617.9 | 2617.9 | 2653.4 | 2675.2 | 2705.2 | 2713.4 | 2729.7 | 2735.2 |
| 7.5° | 2623.4 | 2617.9 | 2607.0 | 2642.5 | 2672.4 | 2727.0 | 2757.0 | 2808.8 | 2827.9 | 2849.7 | 2874.2 |
| 10° | 2658.8 | 2658.8 | 2647.9 | 2710.6 | 2737.9 | 2811.5 | 2877.0 | 2928.8 | 3002.4 | 3027.0 | 3029.7 |
| 12.5° | 2664.3 | 2672.4 | 2705.2 | 2787.0 | 2863.3 | 2958.8 | 3007.9 | 3106.0 | 3179.7 | 3226.0 | 3242.4 |
| 15° | 2746.1 | 2729.7 | 2765.2 | 2877.0 | 2988.8 | 3073.3 | 3160.6 | 3231.5 | 3337.8 | 3397.8 | 3436.0 |
| 17.5° | 2819.7 | 2803.3 | 2868.8 | 3002.4 | 3116.9 | 3247.8 | 3324.2 | 3400.6 | 3476.9 | 3531.5 | 3534.2 |
| 20° | 2937.0 | 2950.6 | 3007.9 | 3152.4 | 3302.4 | 3416.9 | 3504.2 | 3517.8 | 3556.0 | 3635.1 | 3621.4 |
| 22.5° | 3081.5 | 3070.6 | 3190.6 | 3348.7 | 3512.4 | 3607.8 | 3656.9 | 3621.4 | 3602.4 | 3686.9 | 3706.0 |
| 25° | 3226.0 | 3258.8 | 3367.8 | 3515.1 | 3711.4 | 3839.6 | 3853.2 | 3755.1 | 3684.2 | 3714.2 | 3706.0 |
| 27.5° | 3446.9 | 3452.4 | 3566.9 | 3741.4 | 3940.5 | 4052.3 | 4044.1 | 3905.0 | 3768.7 | 3771.4 | 3776.9 |
| 30° | 3730.5 | 3703.3 | 3828.7 | 3986.9 | 4183.2 | 4284.1 | 4297.7 | 4098.7 | 3916.0 | 3861.4 | 3875.1 |
| 32.5° | 4003.2 | 4035.9 | 4145.0 | 4325.0 | 4469.5 | 4526.8 | 4496.8 | 4319.6 | 4082.3 | 4008.7 | 4016.9 |
| 35° | 4352.3 | 4346.8 | 4496.8 | 4649.5 | 4758.6 | 4769.5 | 4745.0 | 4485.9 | 4262.3 | 4166.8 | 4128.7 |
| 37.5° | 4725.9 | 4775.0 | 4873.1 | 4998.6 | 5113.1 | 5118.6 | 4984.9 | 4777.7 | 4502.3 | 4344.1 | 4390.5 |
| 40° | 5143.1 | 5197.6 | 5268.5 | 5451.3 | 5535.8 | 5448.5 | 5312.2 | 5031.3 | 4745.0 | 4605.9 | 4627.7 |
| 42.5° | 5511.2 | 5535.8 | 5680.3 | 5895.8 | 5936.7 | 5898.5 | 5696.7 | 5355.8 | 5023.1 | 4870.4 | 4881.3 |
| 45° | 5849.4 | 5882.1 | 6070.3 | 6263.9 | 6359.3 | 6293.9 | 6059.4 | 5734.9 | 5347.6 | 5216.7 | 5164.9 |
| 47.5° | 6160.3 | 6225.7 | 6408.4 | 6607.5 | 6754.8 | 6760.2 | 6471.1 | 6078.5 | 5669.4 | 5497.6 | 5494.9 |
| 50° | 6370.2 | 6465.7 | 6645.7 | 6872.0 | 7087.4 | 7172.0 | 6882.9 | 6460.2 | 6021.2 | 5838.5 | 5819.4 |
| 52.5° | 6484.8 | 6583.0 | 6762.9 | 7114.7 | 7354.7 | 7485.6 | 7349.2 | 6817.5 | 6433.0 | 6242.1 | 6212.1 |
| 55° | 6345.7 | 6411.2 | 6705.7 | 7199.3 | 7570.1 | 7785.6 | 7695.6 | 7311.1 | 6842.0 | 6686.6 | 6713.8 |
| 57.5° | 5753.9 | 5890.3 | 6253.0 | 6869.3 | 7564.7 | 8093.7 | 8085.5 | 7777.4 | 7313.8 | 7166.5 | 7172.0 |
| 60° | 4736.8 | 4851.3 | 5298.5 | 6160.3 | 7259.2 | 8219.1 | 8508.2 | 8230.1 | 7842.8 | 7671.0 | 7665.6 |
| 62.5° | 3343.3 | 3487.8 | 4005.9 | 4946.8 | 6359.3 | 8044.6 | 8993.6 | 8800.0 | 8360.9 | 8235.5 | 8281.9 |
| 65° | 1870.7 | 1958.0 | 2437.9 | 3288.7 | 4845.9 | 7084.7 | 9080.9 | 9391.8 | 8887.3 | 8696.4 | 8704.5 |
| 67.5° | 1000.8 | 1033.5 | 1257.1 | 1726.2 | 2964.2 | 5462.2 | 8200.1 | 9732.6 | 9457.2 | 9127.2 | 9075.4 |
| 70° | 687.2 | 698.1 | 755.4 | 883.5 | 1401.7 | 3266.9 | 6184.8 | 9124.5 | 9885.3 | 9435.4 | 9522.6 |
| 72.5° | 580.8 | 575.4 | 589.0 | 602.7 | 733.6 | 1461.7 | 3629.6 | 7022.0 | 9331.8 | 9162.7 | 9130.0 |
| 75° | 504.5 | 501.8 | 507.2 | 493.6 | 509.9 | 643.6 | 1606.2 | 4376.8 | 6831.1 | 7624.7 | 7747.4 |
| 77.5° | 417.2 | 420.0 | 422.7 | 409.0 | 403.6 | 425.4 | 646.3 | 1922.5 | 3362.4 | 3711.4 | 4003.2 |
| 80° | 316.3 | 321.8 | 343.6 | 330.0 | 308.1 | 310.9 | 381.8 | 643.6 | 965.4 | 875.4 | 902.6 |
| 82.5° | 215.4 | 218.2 | 264.5 | 248.2 | 231.8 | 210.0 | 245.4 | 332.7 | 376.3 | 286.3 | 250.9 |
| 85° | 152.7 | 150.0 | 171.8 | 158.2 | 147.3 | 106.4 | 147.3 | 188.2 | 226.3 | 141.8 | 128.2 |
| 87.5° | 35.5 | 35.5 | 70.9 | 57.3 | 54.5 | 43.6 | 57.3 | 73.6 | 98.2 | 62.7 | 57.3 |
| 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° | 2590.6 | 2590.6 | 2590.6 | 2590.6 | 2590.6 | 2590.6 | 2590.6 | 2590.6 | 2590.6 | 2590.6 |
| 2.5° | 2639.7 | 2615.2 | 2615.2 | 2609.7 | 2587.9 | 2582.5 | 2563.4 | 2568.8 | 2555.2 | 2541.6 |
| 5° | 2732.4 | 2699.7 | 2699.7 | 2653.4 | 2609.7 | 2604.3 | 2582.5 | 2582.5 | 2560.6 | 2566.1 |
| 7.5° | 2860.6 | 2830.6 | 2781.5 | 2740.6 | 2680.6 | 2656.1 | 2615.2 | 2609.7 | 2604.3 | 2593.4 |
| 10° | 3013.3 | 2975.1 | 2926.1 | 2841.5 | 2792.4 | 2746.1 | 2705.2 | 2647.9 | 2634.3 | 2637.0 |
| 12.5° | 3220.6 | 3160.6 | 3054.2 | 2980.6 | 2917.9 | 2857.9 | 2797.9 | 2713.4 | 2694.3 | 2702.4 |
| 15° | 3367.8 | 3291.5 | 3185.1 | 3157.9 | 3073.3 | 2999.7 | 2901.5 | 2806.1 | 2773.3 | 2765.2 |
| 17.5° | 3487.8 | 3425.1 | 3362.4 | 3321.5 | 3253.3 | 3163.3 | 3027.0 | 2917.9 | 2844.2 | 2836.1 |
| 20° | 3586.0 | 3504.2 | 3490.5 | 3515.1 | 3430.6 | 3370.6 | 3204.2 | 3070.6 | 2972.4 | 2931.5 |
| 22.5° | 3646.0 | 3594.2 | 3632.3 | 3654.2 | 3648.7 | 3547.8 | 3376.0 | 3220.6 | 3097.9 | 3059.7 |
| 25° | 3711.4 | 3651.4 | 3787.8 | 3861.4 | 3880.5 | 3714.2 | 3580.5 | 3376.0 | 3256.0 | 3231.5 |
| 27.5° | 3744.2 | 3766.0 | 3924.1 | 4079.6 | 4065.9 | 3937.8 | 3757.8 | 3575.1 | 3479.6 | 3436.0 |
| 30° | 3839.6 | 3875.1 | 4115.0 | 4289.6 | 4292.3 | 4166.8 | 4030.5 | 3823.2 | 3716.9 | 3697.8 |
| 32.5° | 4011.4 | 4055.0 | 4311.4 | 4496.8 | 4529.5 | 4434.1 | 4297.7 | 4169.6 | 4060.5 | 4016.9 |
| 35° | 4142.3 | 4254.1 | 4543.2 | 4712.2 | 4799.5 | 4742.2 | 4665.9 | 4532.3 | 4417.7 | 4379.5 |
| 37.5° | 4330.5 | 4485.9 | 4764.0 | 4993.1 | 5091.3 | 5085.8 | 5028.6 | 4884.0 | 4788.6 | 4755.9 |
| 40° | 4600.4 | 4755.9 | 5009.5 | 5312.2 | 5494.9 | 5486.7 | 5454.0 | 5342.2 | 5200.4 | 5184.0 |
| 42.5° | 4886.8 | 5014.9 | 5344.9 | 5691.2 | 5953.0 | 5925.7 | 5838.5 | 5707.6 | 5609.4 | 5587.6 |
| 45° | 5164.9 | 5364.0 | 5669.4 | 6113.9 | 6310.3 | 6378.4 | 6274.8 | 6051.2 | 5939.4 | 5925.7 |
| 47.5° | 5514.0 | 5672.1 | 6053.9 | 6452.1 | 6743.8 | 6754.8 | 6577.5 | 6370.2 | 6165.7 | 6209.4 |
| 50° | 5824.8 | 6034.8 | 6422.1 | 6858.4 | 7207.4 | 7082.0 | 6855.7 | 6596.6 | 6449.3 | 6392.1 |
| 52.5° | 6157.5 | 6413.9 | 6863.8 | 7308.3 | 7501.9 | 7376.5 | 7008.4 | 6719.3 | 6495.7 | 6471.1 |
| 55° | 6642.9 | 6776.6 | 7365.6 | 7706.5 | 7769.2 | 7504.7 | 6962.0 | 6553.0 | 6263.9 | 6193.0 |
| 57.5° | 7136.5 | 7292.0 | 7807.4 | 8101.9 | 8036.4 | 7433.8 | 6662.0 | 6029.4 | 5650.3 | 5549.4 |
| 60° | 7635.6 | 7826.5 | 8260.0 | 8530.0 | 8191.9 | 6945.6 | 5813.9 | 4998.6 | 4556.8 | 4466.8 |
| 62.5° | 8191.9 | 8440.0 | 8827.3 | 8922.7 | 7731.0 | 5980.3 | 4614.1 | 3607.8 | 3160.6 | 3010.6 |
| 65° | 8685.5 | 8939.1 | 9416.3 | 8840.9 | 6752.0 | 4461.4 | 2983.3 | 2061.6 | 1731.6 | 1611.7 |
| 67.5° | 9091.8 | 9378.1 | 9612.6 | 7823.7 | 4944.0 | 2612.5 | 1554.4 | 1085.3 | 962.6 | 919.0 |
| 70° | 9413.6 | 9890.8 | 8794.5 | 5751.2 | 2825.2 | 1273.5 | 839.9 | 714.5 | 698.1 | 687.2 |
| 72.5° | 9132.7 | 9070.0 | 6566.6 | 3318.7 | 1238.1 | 700.8 | 608.1 | 589.0 | 586.3 | 589.0 |
| 75° | 7469.2 | 6662.0 | 3926.9 | 1442.6 | 621.8 | 507.2 | 504.5 | 496.3 | 509.9 | 509.9 |
| 77.5° | 3624.2 | 3168.8 | 1641.6 | 619.0 | 409.0 | 398.1 | 411.8 | 411.8 | 411.8 | 411.8 |
| 80° | 839.9 | 929.9 | 586.3 | 376.3 | 297.2 | 297.2 | 327.2 | 330.0 | 316.3 | 310.9 |
| 82.5° | 286.3 | 381.8 | 321.8 | 237.2 | 196.3 | 220.9 | 248.2 | 253.6 | 210.0 | 212.7 |
| 85° | 141.8 | 223.6 | 174.5 | 136.3 | 100.9 | 136.3 | 160.9 | 169.1 | 144.5 | 139.1 |
| 87.5° | 65.4 | 98.2 | 65.4 | 46.4 | 35.5 | 49.1 | 46.4 | 38.2 | 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)