

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: P479470

Luminaire Tested: **IFLD-L-SA7C-827-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479470
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

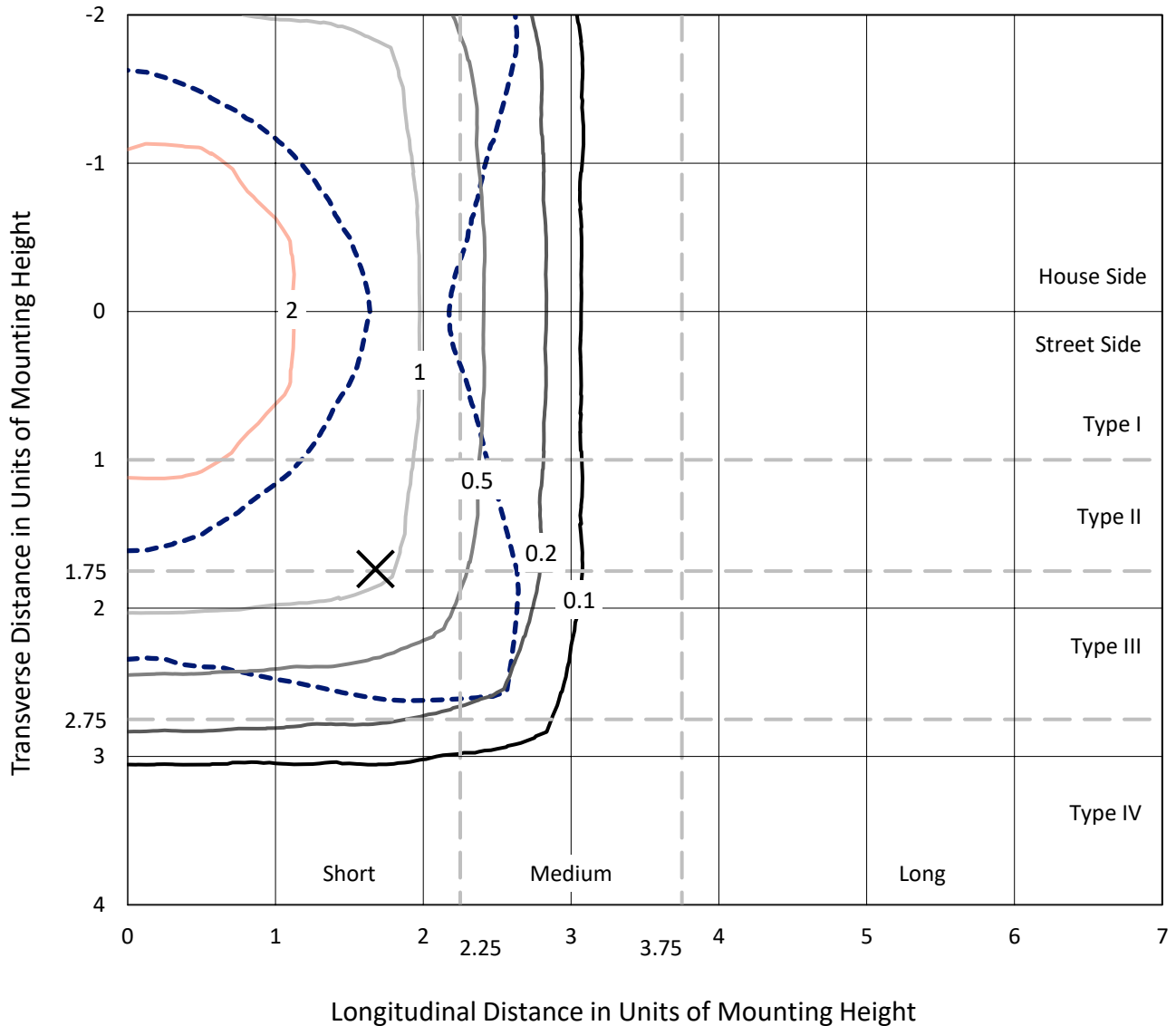
Lumens per Lamp: N/A
Luminaire Lumens: 32894.2 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 369
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

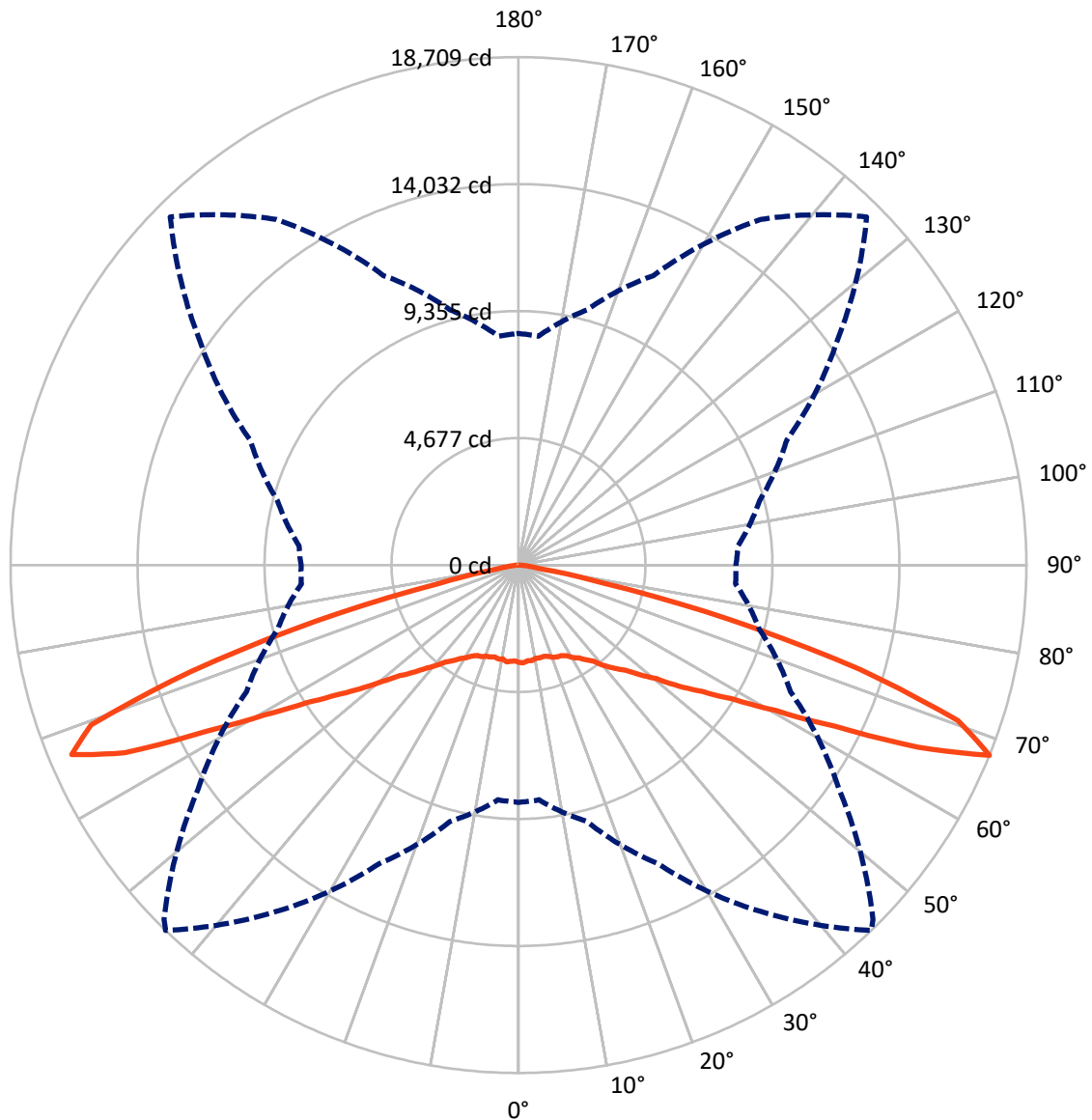
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16405.0 | 0.0 | 16405.0 |
| | % Fixture | 49.9 | 0.0 | 49.9 |
| Street Side | Lumens | 16489.2 | 0.0 | 16489.2 |
| | % Fixture | 50.1 | 0.0 | 50.1 |
| Total | Lumens | 32894.2 | 0.0 | 32894.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 340.0 | 1.0 |
| 10°-20° | 993.4 | 3.0 |
| 20°-30° | 1689.2 | 5.1 |
| 30°-40° | 2678.4 | 8.1 |
| 40°-50° | 4367.3 | 13.3 |
| 50°-60° | 7458.8 | 22.7 |
| 60°-70° | 11344.7 | 34.5 |
| 70°-80° | 3823.9 | 11.6 |
| 80°-90° | 198.5 | 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° | 32894.2 | 100.0 |
| 0°-180° | 32894.2 | 100.0 |

Coefficient of Utilization



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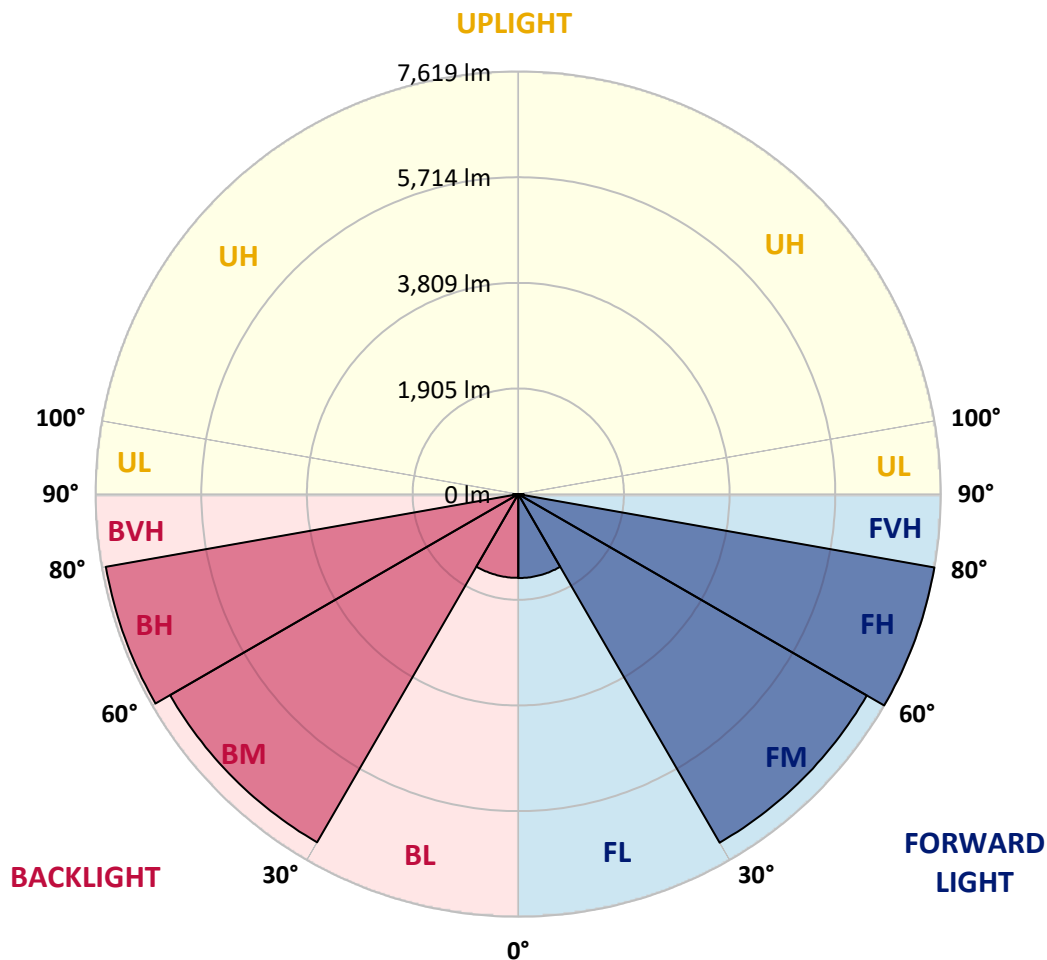
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1512.9 | 4.6 | | | |
| FM (30°-60°) | 7256.1 | 22.1 | | | |
| FH (60°-80°) | 7618.7 | 23.2 | | | G4/12000 |
| FVH (80°-90°) | 101.6 | 0.3 | | | G2/225 |
| BL (0°-30°) | 1509.8 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 7248.3 | 22.0 | B4/8500 | | |
| BH (60°-80°) | 7550.0 | 23.0 | B5 | | G4/12000 |
| BVH (80°-90°) | 97.0 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 3593.1 | 3593.1 | 3593.1 | 3593.1 | 3593.1 | 3593.1 | 3593.1 | 3593.1 | 3593.1 | 3593.1 | 3593.1 |
| 2.5° | 3510.5 | 3551.8 | 3581.9 | 3578.1 | 3589.4 | 3600.6 | 3585.6 | 3608.1 | 3593.1 | 3619.4 | 3634.4 |
| 5° | 3578.1 | 3566.8 | 3570.6 | 3548.1 | 3600.6 | 3540.6 | 3540.6 | 3570.6 | 3608.1 | 3563.1 | 3589.4 |
| 7.5° | 3536.8 | 3529.3 | 3510.5 | 3544.3 | 3555.6 | 3555.6 | 3585.6 | 3529.3 | 3593.1 | 3608.1 | 3611.9 |
| 10° | 3491.8 | 3450.5 | 3506.8 | 3540.6 | 3548.1 | 3488.0 | 3514.3 | 3529.3 | 3510.5 | 3529.3 | 3540.6 |
| 12.5° | 3454.2 | 3476.7 | 3476.7 | 3476.7 | 3465.5 | 3506.8 | 3533.1 | 3529.3 | 3491.8 | 3525.5 | 3465.5 |
| 15° | 3450.5 | 3439.2 | 3473.0 | 3503.0 | 3484.2 | 3491.8 | 3503.0 | 3536.8 | 3465.5 | 3480.5 | 3480.5 |
| 17.5° | 3446.7 | 3461.7 | 3473.0 | 3469.2 | 3533.1 | 3533.1 | 3521.8 | 3499.3 | 3555.6 | 3525.5 | 3484.2 |
| 20° | 3461.7 | 3450.5 | 3480.5 | 3491.8 | 3536.8 | 3626.9 | 3593.1 | 3574.4 | 3544.3 | 3506.8 | 3506.8 |
| 22.5° | 3480.5 | 3473.0 | 3514.3 | 3563.1 | 3649.4 | 3672.0 | 3668.2 | 3645.7 | 3593.1 | 3548.1 | 3540.6 |
| 25° | 3548.1 | 3480.5 | 3525.5 | 3619.4 | 3649.4 | 3694.5 | 3724.5 | 3694.5 | 3623.2 | 3634.4 | 3566.8 |
| 27.5° | 3649.4 | 3638.2 | 3698.3 | 3762.1 | 3735.8 | 3777.1 | 3750.8 | 3773.3 | 3777.1 | 3720.8 | 3653.2 |
| 30° | 3769.6 | 3735.8 | 3773.3 | 3897.2 | 3908.5 | 3953.6 | 3908.5 | 3848.4 | 3867.2 | 3818.4 | 3784.6 |
| 32.5° | 3942.3 | 3931.0 | 4002.4 | 4085.0 | 4100.0 | 4077.5 | 4054.9 | 4088.7 | 4009.9 | 3972.3 | 3912.3 |
| 35° | 4054.9 | 4103.7 | 4190.1 | 4253.9 | 4302.7 | 4280.2 | 4291.5 | 4257.7 | 4276.5 | 4197.6 | 4171.3 |
| 37.5° | 4389.1 | 4370.3 | 4389.1 | 4498.0 | 4509.2 | 4498.0 | 4509.2 | 4546.8 | 4520.5 | 4452.9 | 4385.3 |
| 40° | 4704.5 | 4674.4 | 4719.5 | 4843.4 | 4835.9 | 4873.4 | 4798.3 | 4839.6 | 4839.6 | 4712.0 | 4685.7 |
| 42.5° | 4941.0 | 5042.4 | 5095.0 | 5196.3 | 5233.9 | 5200.1 | 5185.1 | 5192.6 | 5275.2 | 5125.0 | 5068.7 |
| 45° | 5429.1 | 5425.4 | 5583.0 | 5639.4 | 5534.2 | 5526.7 | 5496.7 | 5586.8 | 5643.1 | 5556.8 | 5534.2 |
| 47.5° | 5958.5 | 5984.8 | 6074.9 | 6097.4 | 6161.3 | 6044.9 | 6044.9 | 6056.1 | 6255.1 | 6052.4 | 5947.2 |
| 50° | 6435.3 | 6469.1 | 6649.3 | 6825.8 | 6705.7 | 6581.8 | 6630.6 | 6690.6 | 6799.5 | 6608.0 | 6517.9 |
| 52.5° | 7013.5 | 7197.5 | 7317.7 | 7411.5 | 7497.9 | 7411.5 | 7298.9 | 7366.5 | 7580.5 | 7325.2 | 7212.5 |
| 55° | 7847.1 | 7993.5 | 8106.1 | 8278.8 | 8350.2 | 8233.8 | 8222.5 | 8215.0 | 8335.2 | 8064.8 | 7910.9 |
| 57.5° | 8778.2 | 8718.1 | 8898.3 | 9164.9 | 9424.0 | 9311.3 | 9277.5 | 9285.1 | 9315.1 | 8932.1 | 8815.7 |
| 60° | 9934.6 | 10002.2 | 10216.2 | 10449.0 | 10723.1 | 10880.8 | 10659.2 | 10531.6 | 10557.9 | 10036.0 | 9855.8 |
| 62.5° | 10595.4 | 10745.6 | 11229.9 | 12029.7 | 12581.6 | 13073.4 | 13107.2 | 12277.5 | 11721.8 | 10708.0 | 9942.1 |
| 65° | 10276.3 | 10253.7 | 11166.1 | 12645.4 | 14736.7 | 16167.2 | 15953.2 | 13940.7 | 11999.6 | 10388.9 | 9360.2 |
| 67.5° | 8740.6 | 8680.6 | 9784.4 | 12131.0 | 15585.2 | 18709.0 | 18465.0 | 14410.1 | 11061.0 | 9191.2 | 8027.3 |
| 70° | 5631.9 | 5616.8 | 6814.5 | 9247.5 | 13914.4 | 17177.2 | 17267.3 | 13088.4 | 9003.5 | 6731.9 | 5579.3 |
| 72.5° | 2046.2 | 2170.1 | 2864.7 | 4971.1 | 9450.3 | 13141.0 | 13197.3 | 9690.6 | 5177.6 | 3112.5 | 2294.0 |
| 75° | 754.7 | 777.2 | 904.9 | 1614.5 | 4306.5 | 8068.6 | 8278.8 | 4700.7 | 1839.7 | 1013.7 | 826.0 |
| 77.5° | 435.5 | 439.3 | 484.3 | 600.7 | 1276.6 | 3150.1 | 3277.7 | 1426.7 | 713.4 | 540.7 | 499.4 |
| 80° | 296.6 | 292.9 | 341.7 | 390.5 | 510.6 | 893.6 | 949.9 | 597.0 | 450.5 | 375.5 | 315.4 |
| 82.5° | 172.7 | 184.0 | 251.6 | 277.8 | 311.6 | 394.2 | 401.7 | 371.7 | 337.9 | 277.8 | 206.5 |
| 85° | 105.1 | 86.4 | 138.9 | 153.9 | 180.2 | 176.5 | 176.5 | 202.7 | 217.8 | 195.2 | 116.4 |
| 87.5° | 26.3 | 26.3 | 33.8 | 37.5 | 48.8 | 37.5 | 41.3 | 78.8 | 105.1 | 97.6 | 60.1 |
| 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° | 3593.1 | 3593.1 | 3593.1 | 3593.1 | 3593.1 | 3593.1 | 3593.1 | 3593.1 | 3593.1 | 3593.1 | 3593.1 |
| 2.5° | 3600.6 | 3589.4 | 3596.9 | 3638.2 | 3611.9 | 3533.1 | 3551.8 | 3593.1 | 3559.3 | 3540.6 | 3536.8 |
| 5° | 3585.6 | 3608.1 | 3581.9 | 3589.4 | 3615.7 | 3551.8 | 3563.1 | 3615.7 | 3593.1 | 3600.6 | 3559.3 |
| 7.5° | 3589.4 | 3600.6 | 3578.1 | 3544.3 | 3544.3 | 3596.9 | 3566.8 | 3574.4 | 3540.6 | 3596.9 | 3521.8 |
| 10° | 3566.8 | 3536.8 | 3510.5 | 3529.3 | 3521.8 | 3506.8 | 3495.5 | 3518.0 | 3484.2 | 3533.1 | 3480.5 |
| 12.5° | 3499.3 | 3506.8 | 3499.3 | 3491.8 | 3506.8 | 3544.3 | 3484.2 | 3491.8 | 3439.2 | 3446.7 | 3473.0 |
| 15° | 3473.0 | 3495.5 | 3488.0 | 3529.3 | 3548.1 | 3491.8 | 3536.8 | 3491.8 | 3450.5 | 3427.9 | 3469.2 |
| 17.5° | 3484.2 | 3518.0 | 3506.8 | 3536.8 | 3503.0 | 3544.3 | 3551.8 | 3533.1 | 3484.2 | 3465.5 | 3484.2 |
| 20° | 3495.5 | 3484.2 | 3499.3 | 3551.8 | 3600.6 | 3559.3 | 3559.3 | 3548.1 | 3503.0 | 3476.7 | 3476.7 |
| 22.5° | 3521.8 | 3503.0 | 3525.5 | 3566.8 | 3581.9 | 3645.7 | 3589.4 | 3563.1 | 3488.0 | 3420.4 | 3484.2 |
| 25° | 3574.4 | 3585.6 | 3600.6 | 3585.6 | 3668.2 | 3660.7 | 3653.2 | 3634.4 | 3518.0 | 3521.8 | 3510.5 |
| 27.5° | 3675.7 | 3611.9 | 3630.7 | 3720.8 | 3732.0 | 3762.1 | 3724.5 | 3758.3 | 3634.4 | 3638.2 | 3563.1 |
| 30° | 3799.6 | 3732.0 | 3792.1 | 3871.0 | 3867.2 | 3923.5 | 3904.8 | 3912.3 | 3825.9 | 3777.1 | 3675.7 |
| 32.5° | 3934.8 | 3927.3 | 3964.8 | 4013.6 | 4032.4 | 4062.4 | 4058.7 | 4058.7 | 4006.1 | 3878.5 | 3897.2 |
| 35° | 4085.0 | 4137.5 | 4182.6 | 4235.2 | 4242.7 | 4280.2 | 4227.6 | 4235.2 | 4182.6 | 4088.7 | 4118.8 |
| 37.5° | 4381.6 | 4377.8 | 4426.6 | 4490.5 | 4498.0 | 4467.9 | 4509.2 | 4490.5 | 4419.1 | 4355.3 | 4306.5 |
| 40° | 4727.0 | 4651.9 | 4697.0 | 4847.2 | 4858.4 | 4805.9 | 4802.1 | 4798.3 | 4745.8 | 4606.9 | 4576.8 |
| 42.5° | 5027.4 | 5125.0 | 5117.5 | 5166.3 | 5132.5 | 5106.2 | 5200.1 | 5147.5 | 5106.2 | 4959.8 | 4933.5 |
| 45° | 5414.1 | 5444.1 | 5541.7 | 5699.4 | 5538.0 | 5538.0 | 5601.8 | 5560.5 | 5538.0 | 5429.1 | 5327.7 |
| 47.5° | 5894.7 | 5921.0 | 6116.2 | 6127.5 | 6022.3 | 5951.0 | 6150.0 | 6157.5 | 6063.6 | 5981.0 | 5857.1 |
| 50° | 6457.9 | 6469.1 | 6645.6 | 6825.8 | 6709.4 | 6574.3 | 6777.0 | 6855.9 | 6645.6 | 6533.0 | 6379.0 |
| 52.5° | 7077.4 | 7043.6 | 7190.0 | 7527.9 | 7415.3 | 7374.0 | 7591.7 | 7610.5 | 7325.2 | 7148.7 | 7190.0 |
| 55° | 7790.7 | 7745.7 | 8143.7 | 8372.7 | 8301.4 | 8226.3 | 8323.9 | 8368.9 | 8139.9 | 7850.8 | 7952.2 |
| 57.5° | 8714.4 | 8736.9 | 8935.9 | 9161.2 | 9277.5 | 9296.3 | 9341.4 | 9296.3 | 9063.5 | 8770.7 | 8676.8 |
| 60° | 9638.0 | 9705.6 | 10092.3 | 10516.6 | 10554.1 | 10884.5 | 10824.4 | 10599.2 | 10268.8 | 9852.0 | 9870.8 |
| 62.5° | 9979.7 | 9923.3 | 10546.6 | 11582.9 | 12465.2 | 13069.7 | 12803.1 | 12003.4 | 11237.4 | 10479.0 | 10535.3 |
| 65° | 9292.6 | 9431.5 | 10280.0 | 11902.0 | 13816.8 | 16208.5 | 14789.3 | 12577.8 | 11030.9 | 10051.0 | 9942.1 |
| 67.5° | 8008.5 | 8113.6 | 9191.2 | 10903.3 | 14301.2 | 18138.3 | 15540.2 | 11766.8 | 9728.1 | 8459.1 | 8526.6 |
| 70° | 5579.3 | 5631.9 | 6686.9 | 8932.1 | 12968.3 | 17117.1 | 14019.6 | 9037.3 | 6716.9 | 5354.0 | 5429.1 |
| 72.5° | 2245.2 | 2372.9 | 3067.5 | 5380.3 | 9574.2 | 13005.8 | 9439.0 | 4742.0 | 2785.9 | 2072.5 | 1881.0 |
| 75° | 829.8 | 833.5 | 979.9 | 1851.0 | 4546.8 | 8173.7 | 4257.7 | 1524.4 | 889.8 | 728.4 | 694.6 |
| 77.5° | 480.6 | 476.8 | 510.6 | 668.3 | 1317.9 | 3191.4 | 1209.0 | 597.0 | 484.3 | 435.5 | 416.8 |
| 80° | 300.4 | 296.6 | 349.2 | 443.0 | 578.2 | 874.8 | 510.6 | 371.7 | 326.6 | 281.6 | 281.6 |
| 82.5° | 191.5 | 195.2 | 274.1 | 326.6 | 352.9 | 386.7 | 296.6 | 262.8 | 244.0 | 161.4 | 157.7 |
| 85° | 123.9 | 112.6 | 191.5 | 217.8 | 195.2 | 172.7 | 165.2 | 138.9 | 127.7 | 78.8 | 86.4 |
| 87.5° | 56.3 | 60.1 | 97.6 | 108.9 | 71.3 | 41.3 | 41.3 | 30.0 | 30.0 | 18.8 | 18.8 |
| 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)