

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: P481581

Luminaire Tested: **IFLD-L-SA8C-727-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481581
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-727-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

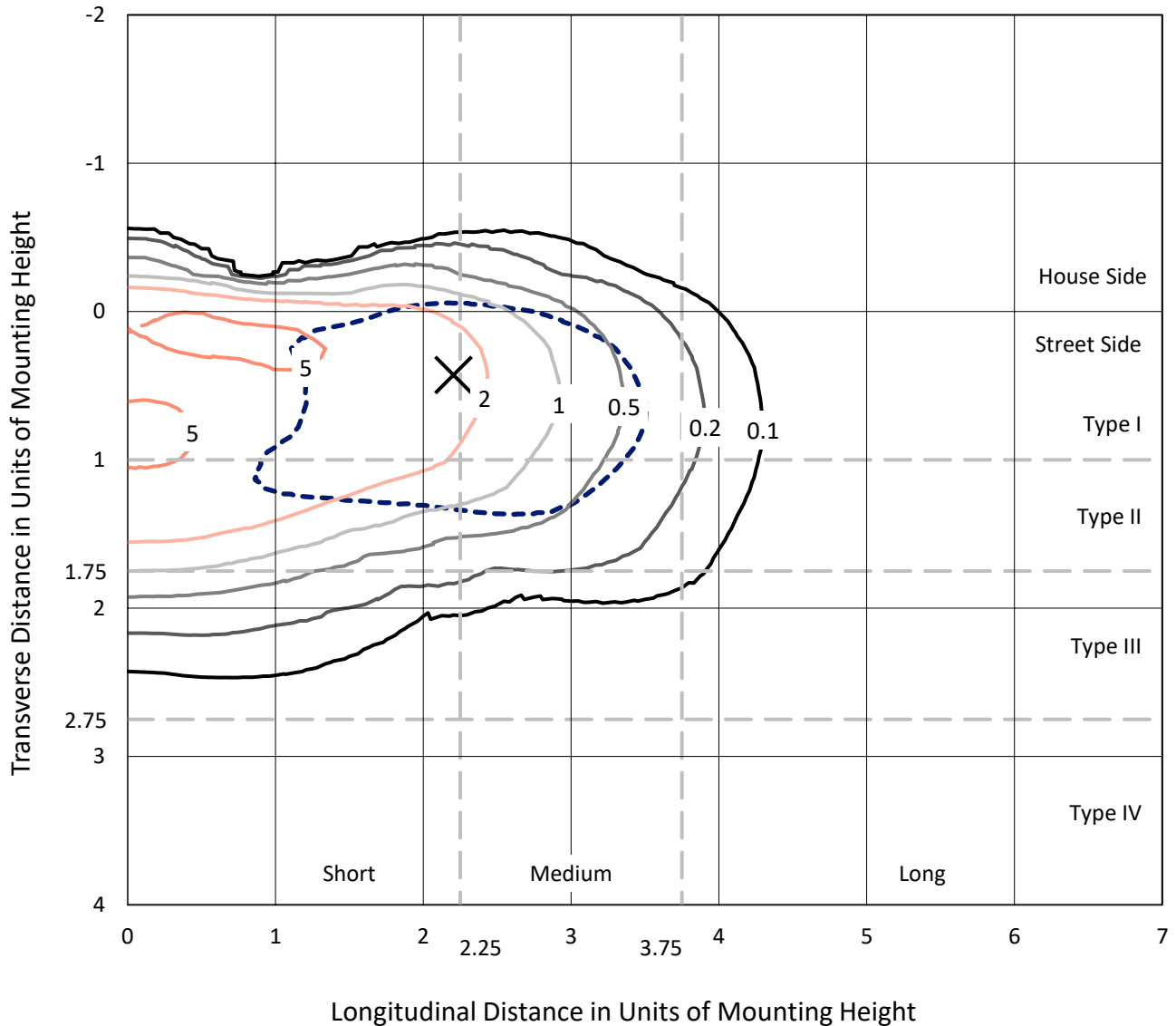
Lumens per Lamp: N/A
Luminaire Lumens: 30512.4 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 420.3
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

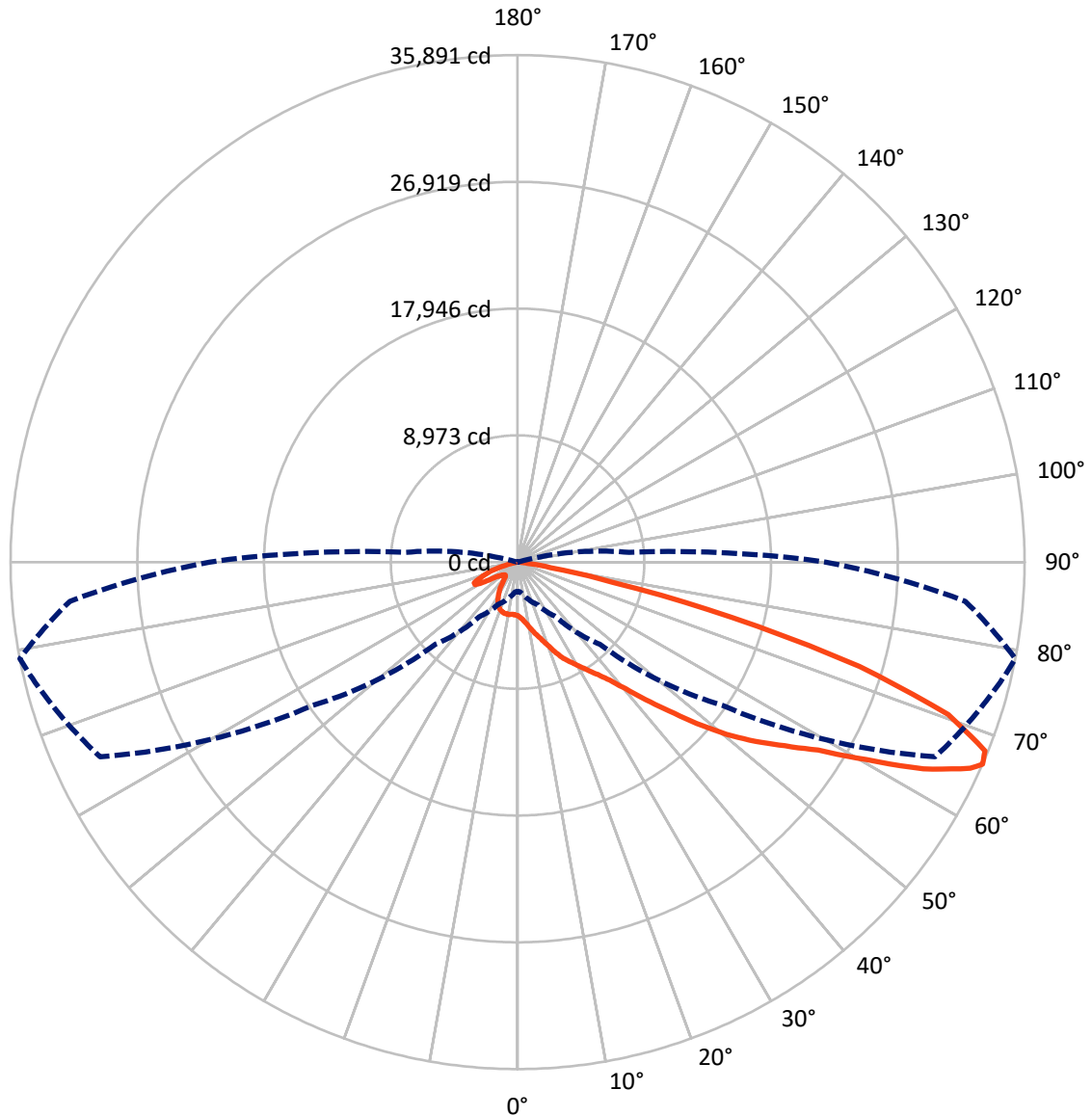
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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 | 2291.1 | 0.0 | 2291.1 |
| | % Fixture | 7.5 | 0.0 | 7.5 |
| Street Side | Lumens | 28221.4 | 0.0 | 28221.4 |
| | % Fixture | 92.5 | 0.0 | 92.5 |
| Total | Lumens | 30512.4 | 0.0 | 30512.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 359.0 | 1.2 |
| 10°-20° | 988.0 | 3.2 |
| 20°-30° | 1641.4 | 5.4 |
| 30°-40° | 2819.3 | 9.2 |
| 40°-50° | 5107.5 | 16.7 |
| 50°-60° | 8073.4 | 26.5 |
| 60°-70° | 8215.3 | 26.9 |
| 70°-80° | 3132.9 | 10.3 |
| 80°-90° | 175.6 | 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° | 30512.4 | 100.0 |
| 0°-180° | 30512.4 | 100.0 |



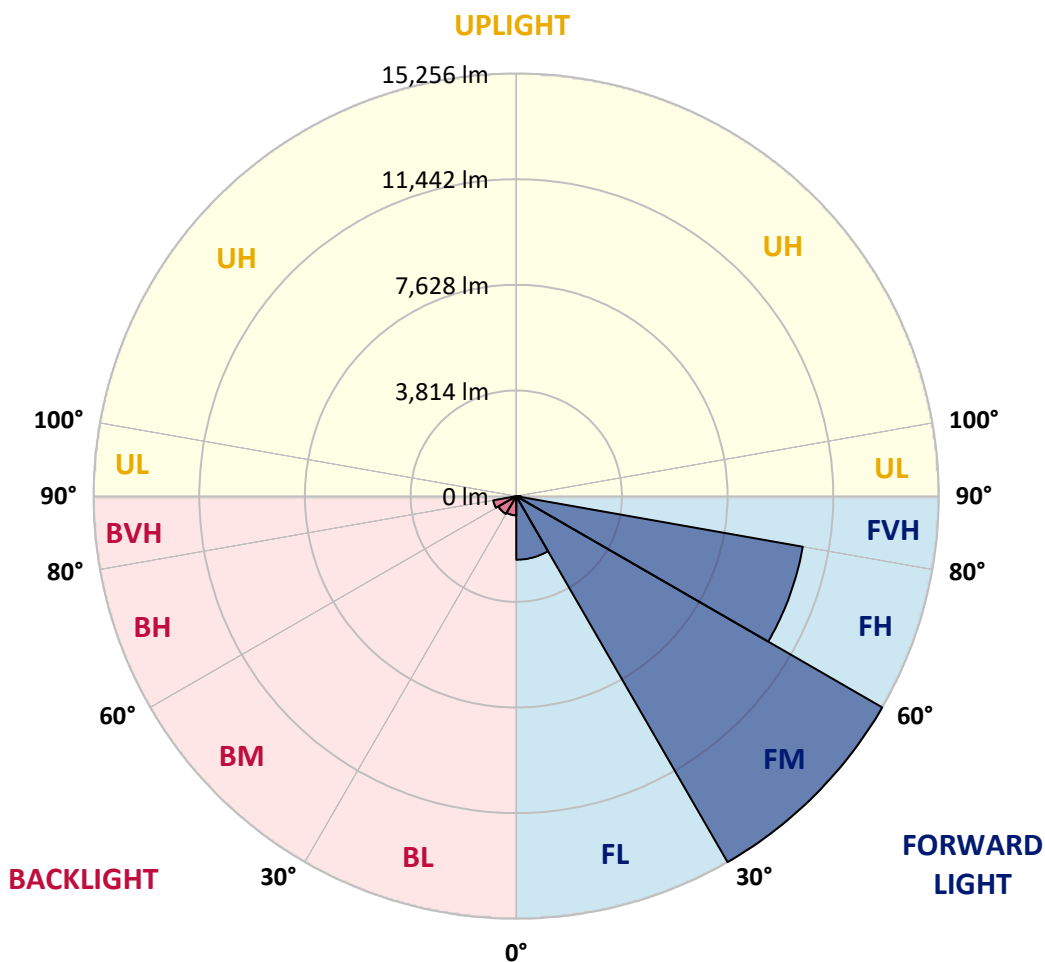
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2295.5 | 7.5 | | | |
| FM (30°-60°) | 15255.5 | 50.0 | | | |
| FH (60°-80°) | 10503.6 | 34.4 | | | G4/12000 |
| FVH (80°-90°) | 166.7 | 0.5 | | | G2/225 |
| BL (0°-30°) | 692.9 | 2.3 | B2/1000 | | |
| BM (30°-60°) | 744.6 | 2.4 | B1/1000 | | |
| BH (60°-80°) | 844.6 | 2.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 9.0 | 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° | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 |
| 2.5° | 4299.4 | 4294.7 | 4275.9 | 4243.0 | 4200.7 | 4186.5 | 4125.4 | 4040.7 | 3993.7 | 3941.9 | 3918.4 |
| 5° | 4595.8 | 4572.3 | 4628.7 | 4605.2 | 4614.6 | 4501.7 | 4426.5 | 4365.3 | 4186.5 | 4116.0 | 4003.1 |
| 7.5° | 4661.6 | 4685.2 | 4680.5 | 4718.1 | 4755.7 | 4798.1 | 4746.3 | 4656.9 | 4478.2 | 4374.7 | 4252.4 |
| 10° | 4661.6 | 4652.2 | 4689.9 | 4741.6 | 4849.8 | 4943.9 | 5085.0 | 4967.4 | 4831.0 | 4708.7 | 4487.6 |
| 12.5° | 4577.0 | 4562.9 | 4600.5 | 4708.7 | 4901.6 | 5094.4 | 5249.6 | 5362.5 | 5169.7 | 5070.9 | 4784.0 |
| 15° | 4318.3 | 4304.1 | 4459.4 | 4652.2 | 4906.3 | 5221.4 | 5546.0 | 5729.5 | 5597.7 | 5442.5 | 5122.6 |
| 17.5° | 3998.4 | 4017.2 | 4181.8 | 4501.7 | 4906.3 | 5282.6 | 5696.5 | 6096.4 | 6077.5 | 5880.0 | 5546.0 |
| 20° | 3890.2 | 3904.3 | 4068.9 | 4299.4 | 4760.4 | 5324.9 | 5931.7 | 6496.2 | 6609.1 | 6373.9 | 5936.4 |
| 22.5° | 4097.2 | 4083.1 | 4097.2 | 4238.3 | 4661.6 | 5287.3 | 6087.0 | 6952.5 | 7154.8 | 6971.3 | 6449.2 |
| 25° | 4802.8 | 4793.4 | 4675.8 | 4459.4 | 4605.2 | 5202.6 | 6166.9 | 7253.5 | 7719.2 | 7549.9 | 6863.1 |
| 27.5° | 5837.6 | 5800.0 | 5616.6 | 5165.0 | 4868.6 | 5254.4 | 6298.6 | 7545.2 | 8213.2 | 8020.3 | 7234.7 |
| 30° | 6947.8 | 6858.4 | 6618.5 | 6054.0 | 5550.7 | 5447.2 | 6373.9 | 7761.6 | 8763.5 | 8518.9 | 7559.3 |
| 32.5° | 7714.5 | 7832.1 | 7756.9 | 7183.0 | 6411.5 | 5894.1 | 6496.2 | 8034.4 | 9271.6 | 9111.6 | 8114.4 |
| 35° | 8899.9 | 9036.4 | 8721.2 | 8213.2 | 7437.0 | 6604.4 | 6754.9 | 8255.5 | 10052.4 | 9784.3 | 8631.8 |
| 37.5° | 10395.8 | 10499.3 | 10273.5 | 9309.2 | 8490.7 | 7479.3 | 7286.5 | 8716.5 | 10725.1 | 10598.1 | 9295.1 |
| 40° | 11148.4 | 11647.1 | 11327.2 | 10457.0 | 9577.3 | 8702.4 | 8166.1 | 9257.4 | 11896.4 | 11792.9 | 10212.4 |
| 42.5° | 12188.0 | 12437.3 | 12272.7 | 11628.3 | 10711.0 | 10010.1 | 9252.7 | 10311.1 | 13317.0 | 13317.0 | 11454.2 |
| 45° | 13288.8 | 13298.2 | 13288.8 | 12761.9 | 11948.1 | 11585.9 | 10720.4 | 11633.0 | 14845.8 | 15015.1 | 12940.7 |
| 47.5° | 14191.9 | 14474.2 | 14450.6 | 14135.5 | 13505.1 | 13368.7 | 12188.0 | 13138.2 | 16765.0 | 17061.4 | 14389.5 |
| 50° | 14657.6 | 14972.8 | 15066.9 | 15231.5 | 15203.3 | 15490.2 | 13792.1 | 14883.4 | 18420.8 | 19149.9 | 16252.3 |
| 52.5° | 14530.6 | 14554.1 | 15132.7 | 15781.9 | 16816.7 | 17621.1 | 15725.4 | 16863.8 | 20358.8 | 21078.6 | 17691.7 |
| 55° | 13491.0 | 13401.7 | 14591.8 | 15335.0 | 17475.3 | 18924.1 | 18402.0 | 19333.4 | 21868.8 | 22964.9 | 19178.1 |
| 57.5° | 11209.6 | 11233.1 | 12333.9 | 13843.8 | 16986.1 | 19441.6 | 21262.0 | 22560.3 | 23985.6 | 25091.1 | 21266.7 |
| 60° | 7738.1 | 7709.8 | 8942.3 | 10687.5 | 14112.0 | 18477.3 | 22908.4 | 26742.2 | 26817.4 | 28383.8 | 25015.8 |
| 62.5° | 4351.2 | 4360.6 | 5296.7 | 6787.9 | 9873.7 | 15099.8 | 22828.4 | 31182.7 | 30862.8 | 32236.4 | 29277.6 |
| 65° | 2464.9 | 2526.0 | 3170.5 | 4021.9 | 5912.9 | 10137.1 | 19634.4 | 32951.4 | 33981.6 | 35204.6 | 31864.8 |
| 66° | 2083.9 | 2126.2 | 2676.6 | 3321.0 | 4718.1 | 8222.6 | 17672.9 | 32608.0 | 34960.0 | 35891.4 | 31813.1 |
| 67.5° | 1613.5 | 1669.9 | 2130.9 | 2634.2 | 3462.1 | 5691.8 | 14224.9 | 30900.5 | 35138.8 | 35684.4 | 30914.6 |
| 70° | 1105.4 | 1143.1 | 1495.9 | 1999.2 | 2366.1 | 2911.8 | 8504.8 | 25547.3 | 31883.6 | 32344.6 | 26869.2 |
| 72.5° | 776.2 | 795.0 | 1049.0 | 1514.7 | 1820.4 | 1665.2 | 4219.5 | 18176.2 | 24399.6 | 25298.0 | 20899.8 |
| 75° | 559.8 | 578.6 | 719.7 | 1086.6 | 1420.6 | 1091.3 | 1933.3 | 11609.4 | 14963.4 | 15669.0 | 12587.9 |
| 77.5° | 404.5 | 428.1 | 489.2 | 700.9 | 1030.2 | 766.7 | 950.2 | 6063.4 | 7056.0 | 6933.7 | 5414.3 |
| 80° | 244.6 | 268.1 | 362.2 | 451.6 | 752.6 | 541.0 | 522.1 | 2530.7 | 2502.5 | 2375.5 | 1702.8 |
| 82.5° | 112.9 | 131.7 | 192.9 | 305.8 | 526.8 | 376.3 | 249.3 | 903.2 | 790.3 | 724.4 | 479.8 |
| 85° | 32.9 | 42.3 | 112.9 | 230.5 | 268.1 | 183.5 | 150.5 | 310.5 | 324.6 | 277.5 | 159.9 |
| 87.5° | 0.0 | 4.7 | 51.7 | 56.4 | 80.0 | 61.2 | 56.4 | 80.0 | 150.5 | 122.3 | 51.7 |
| 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° | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 | 3796.1 |
| 2.5° | 3833.7 | 3800.8 | 3720.9 | 3598.5 | 3490.4 | 3433.9 | 3353.9 | 3283.4 | 3245.8 | 3241.0 | 3236.3 |
| 5° | 3927.8 | 3838.5 | 3645.6 | 3424.5 | 3259.9 | 3081.1 | 2958.8 | 2869.4 | 2784.8 | 2704.8 | 2751.8 |
| 7.5° | 4054.8 | 3913.7 | 3598.5 | 3311.6 | 2954.1 | 2723.6 | 2507.2 | 2380.2 | 2305.0 | 2234.4 | 2225.0 |
| 10° | 4252.4 | 4073.7 | 3565.6 | 3048.2 | 2638.9 | 2300.2 | 2079.2 | 1895.7 | 1792.2 | 1669.9 | 1717.0 |
| 12.5° | 4520.5 | 4200.7 | 3443.3 | 2808.3 | 2281.4 | 1923.9 | 1608.8 | 1312.4 | 1147.8 | 1020.8 | 1025.5 |
| 15° | 4788.7 | 4370.0 | 3330.4 | 2516.6 | 1956.9 | 1486.5 | 1025.5 | 823.2 | 776.2 | 747.9 | 757.3 |
| 17.5° | 5052.1 | 4506.4 | 3156.4 | 2220.3 | 1585.2 | 945.5 | 747.9 | 705.6 | 682.1 | 653.9 | 653.9 |
| 20° | 5372.0 | 4595.8 | 2940.0 | 1947.5 | 1091.3 | 700.9 | 639.7 | 611.5 | 573.9 | 536.3 | 541.0 |
| 22.5° | 5682.4 | 4671.1 | 2690.7 | 1599.4 | 733.8 | 606.8 | 536.3 | 498.6 | 465.7 | 428.1 | 428.1 |
| 25° | 5992.9 | 4694.6 | 2366.1 | 1147.8 | 592.7 | 484.5 | 418.7 | 366.9 | 334.0 | 301.1 | 305.8 |
| 27.5° | 6204.6 | 4548.8 | 2060.3 | 733.8 | 475.1 | 366.9 | 291.6 | 249.3 | 221.1 | 188.2 | 188.2 |
| 30° | 6326.9 | 4280.6 | 1731.1 | 517.4 | 357.5 | 249.3 | 174.0 | 131.7 | 103.5 | 80.0 | 75.3 |
| 32.5° | 6449.2 | 4064.2 | 1359.5 | 395.1 | 235.2 | 131.7 | 65.9 | 23.5 | 0.0 | 0.0 | 0.0 |
| 35° | 6693.8 | 3819.6 | 912.6 | 221.1 | 80.0 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 6849.0 | 3480.9 | 418.7 | 32.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 7239.4 | 3311.6 | 103.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 7874.5 | 3194.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 8570.7 | 3147.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 9497.3 | 3274.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 10475.8 | 3617.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 11548.3 | 3941.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 12484.4 | 4332.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 14206.0 | 5254.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 17296.6 | 7065.4 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 20777.5 | 8410.7 | 51.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 22052.3 | 8377.8 | 89.4 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 66° | 21826.5 | 7916.8 | 89.4 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 20655.2 | 7032.5 | 80.0 | 9.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 17738.7 | 5809.4 | 80.0 | 14.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 13524.0 | 4525.2 | 75.3 | 18.8 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 8161.4 | 2408.4 | 61.2 | 23.5 | 9.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 3250.5 | 846.7 | 47.0 | 18.8 | 9.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 879.6 | 254.0 | 28.2 | 18.8 | 14.1 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 230.5 | 94.1 | 23.5 | 18.8 | 9.4 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 89.4 | 37.6 | 18.8 | 14.1 | 14.1 | 9.4 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 28.2 | 14.1 | 14.1 | 9.4 | 9.4 | 4.7 | 4.7 | 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)