

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: P484529

Luminaire Tested: **IFLD-S-SA6B-827-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484529
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-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

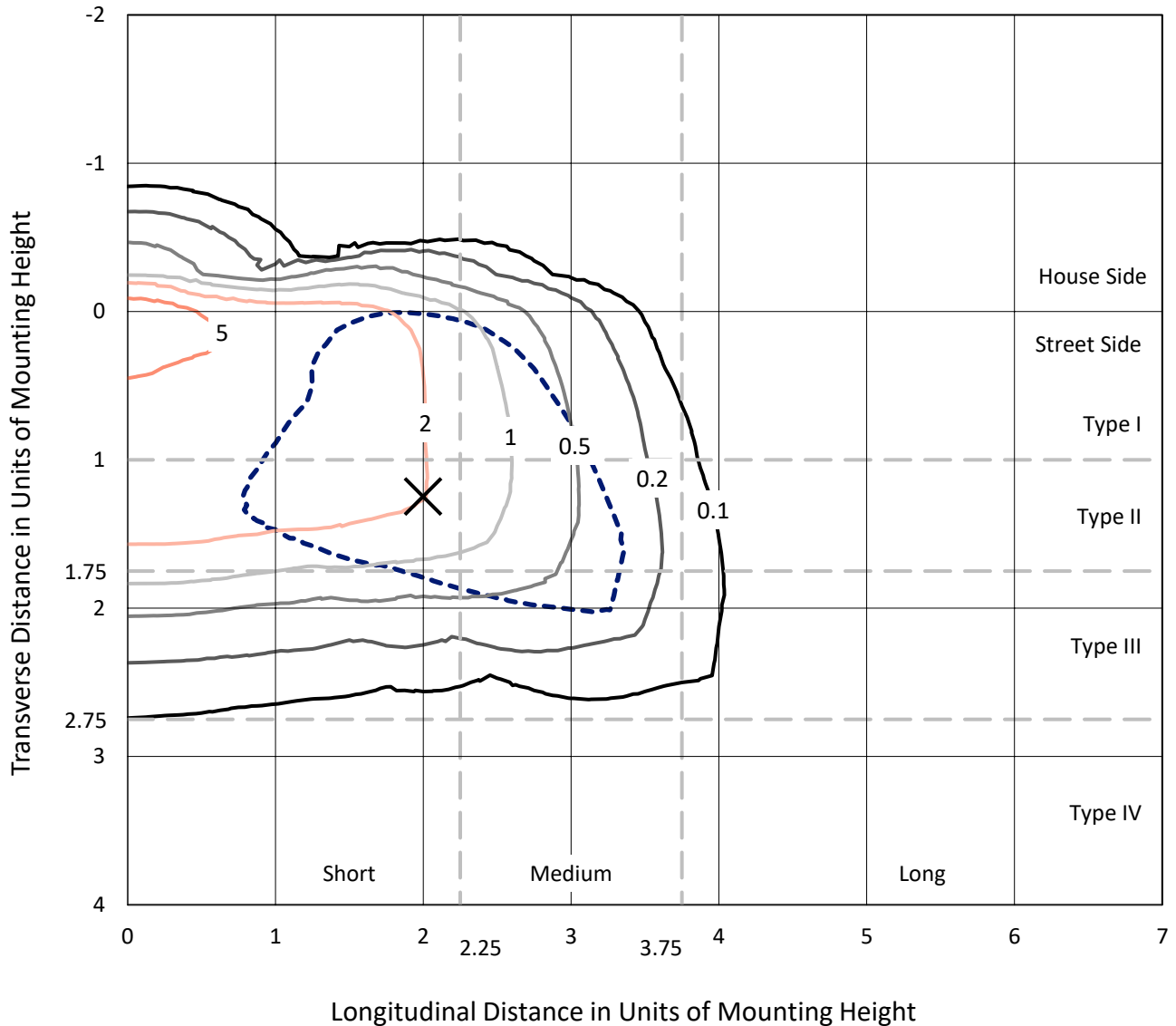
Lumens per Lamp: N/A
Luminaire Lumens: 20520.5 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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

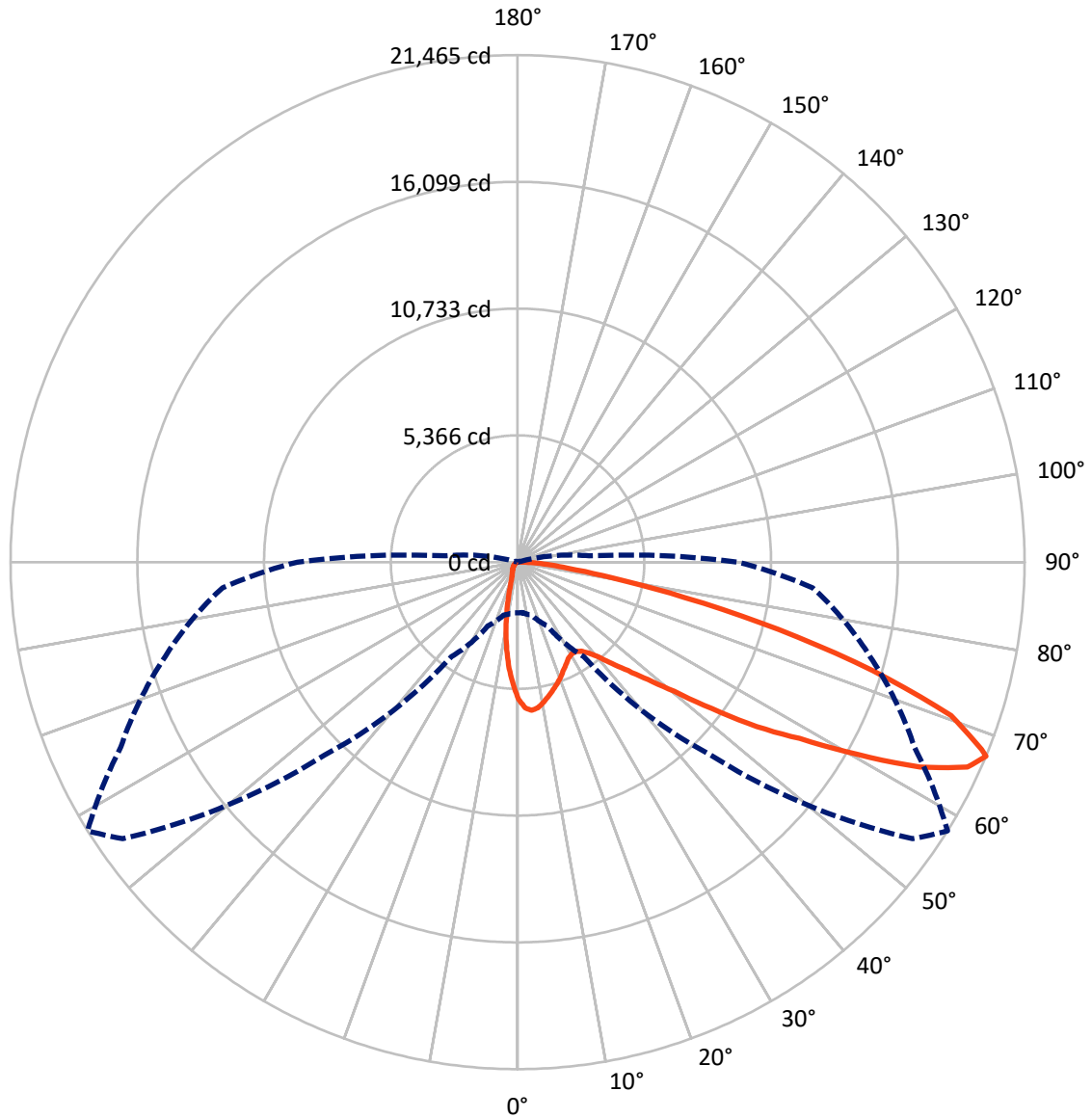
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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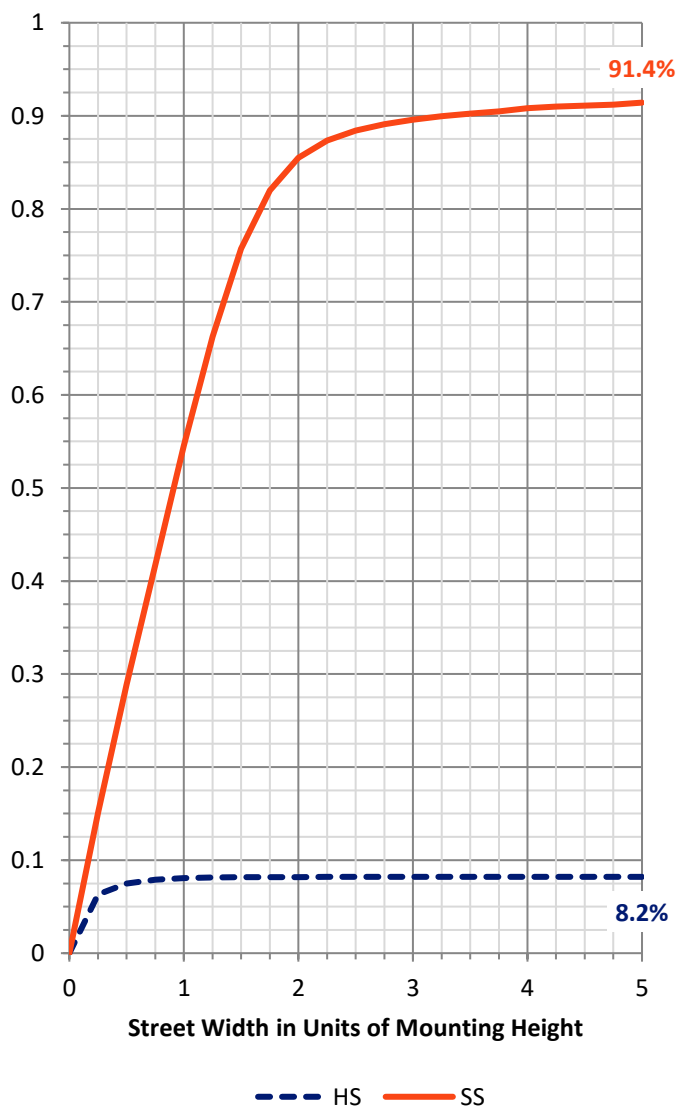
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1696.1 | 0.0 | 1696.1 |
| | % Fixture | 8.3 | 0.0 | 8.3 |
| Street Side | Lumens | 18824.4 | 0.0 | 18824.4 |
| | % Fixture | 91.7 | 0.0 | 91.7 |
| Total | Lumens | 20520.5 | 0.0 | 20520.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 461.3 | 2.2 |
| 10°-20° | 956.8 | 4.7 |
| 20°-30° | 1269.5 | 6.2 |
| 30°-40° | 1759.1 | 8.6 |
| 40°-50° | 2870.3 | 14.0 |
| 50°-60° | 5045.1 | 24.6 |
| 60°-70° | 5587.9 | 27.2 |
| 70°-80° | 2315.6 | 11.3 |
| 80°-90° | 254.9 | 1.2 |
| 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° | 20520.5 | 100.0 |
| 0°-180° | 20520.5 | 100.0 |

Coefficient of Utilization



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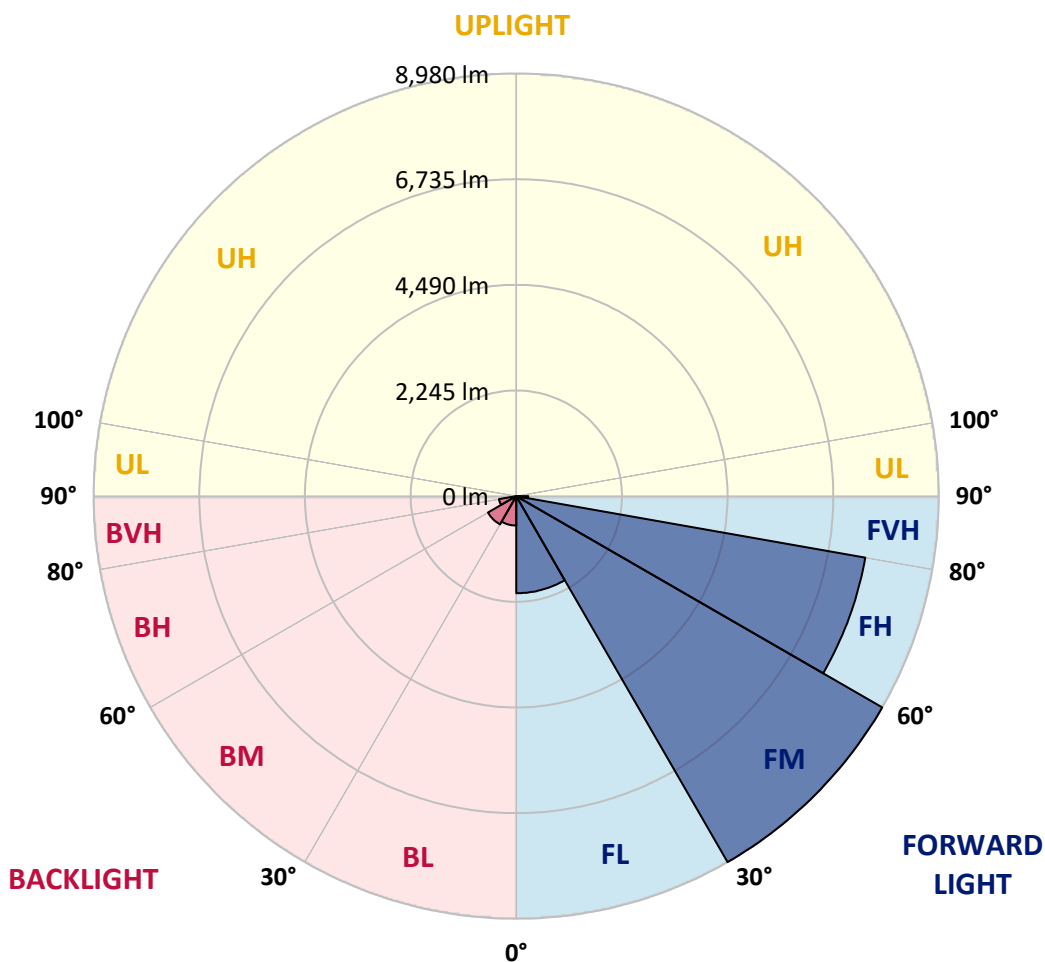
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2062.9 | 10.1 | | | |
| FM (30°-60°) | 8980.2 | 43.8 | | | |
| FH (60°-80°) | 7530.6 | 36.7 | | | G4/12000 |
| FVH (80°-90°) | 250.7 | 1.2 | | | G3/500 |
| BL (0°-30°) | 624.7 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 694.3 | 3.4 | B1/1000 | | |
| BH (60°-80°) | 372.9 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.2 | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5813.7 | 5813.7 | 5813.7 | 5813.7 | 5813.7 | 5813.7 | 5813.7 | 5813.7 | 5813.7 | 5813.7 | 5813.7 |
| 2.5° | 6325.9 | 6347.7 | 6366.8 | 6331.4 | 6361.3 | 6317.7 | 6206.0 | 6181.5 | 6162.5 | 5996.3 | 5900.9 |
| 5° | 6323.2 | 6298.7 | 6317.7 | 6334.1 | 6293.2 | 6325.9 | 6298.7 | 6301.4 | 6227.8 | 6078.0 | 5811.0 |
| 7.5° | 5900.9 | 5890.0 | 5900.9 | 5979.9 | 6069.8 | 6140.7 | 6181.5 | 6222.4 | 6173.4 | 5950.0 | 5691.1 |
| 10° | 5331.5 | 5386.0 | 5416.0 | 5557.7 | 5696.6 | 5827.4 | 5955.4 | 6031.7 | 6018.1 | 5928.2 | 5560.4 |
| 12.5° | 4933.8 | 4917.4 | 5026.4 | 5119.0 | 5258.0 | 5522.2 | 5745.6 | 5816.5 | 5898.2 | 5772.9 | 5388.7 |
| 15° | 4566.0 | 4522.4 | 4587.8 | 4748.5 | 4985.5 | 5195.3 | 5508.6 | 5614.9 | 5718.4 | 5751.1 | 5296.1 |
| 17.5° | 4214.6 | 4236.3 | 4304.5 | 4448.8 | 4672.2 | 4966.5 | 5260.7 | 5413.3 | 5661.2 | 5617.6 | 5157.2 |
| 20° | 4045.6 | 4092.0 | 4116.5 | 4190.0 | 4345.3 | 4639.6 | 5078.2 | 5200.8 | 5465.0 | 5614.9 | 5021.0 |
| 22.5° | 4053.8 | 4053.8 | 3996.6 | 4040.2 | 4181.9 | 4410.7 | 4830.3 | 4966.5 | 5386.0 | 5473.2 | 4898.4 |
| 25° | 4141.0 | 4086.5 | 4089.2 | 4037.5 | 4097.4 | 4222.7 | 4606.9 | 4773.0 | 5225.3 | 5486.8 | 4833.0 |
| 27.5° | 4206.4 | 4195.5 | 4179.1 | 4165.5 | 4089.2 | 4108.3 | 4459.7 | 4596.0 | 5162.6 | 5470.5 | 4732.2 |
| 30° | 4443.4 | 4394.4 | 4378.0 | 4348.0 | 4247.2 | 4154.6 | 4342.6 | 4514.2 | 5113.6 | 5508.6 | 4675.0 |
| 32.5° | 4642.3 | 4650.4 | 4664.1 | 4576.9 | 4489.7 | 4260.9 | 4375.3 | 4511.5 | 5078.2 | 5595.8 | 4732.2 |
| 35° | 4892.9 | 4928.3 | 4933.8 | 4906.5 | 4813.9 | 4587.8 | 4511.5 | 4628.7 | 5138.1 | 5751.1 | 4737.6 |
| 37.5° | 5274.3 | 5236.2 | 5339.7 | 5350.6 | 5285.2 | 4985.5 | 4827.5 | 4873.8 | 5315.2 | 5999.0 | 4944.7 |
| 40° | 5522.2 | 5568.5 | 5762.0 | 5881.8 | 5770.2 | 5497.7 | 5285.2 | 5277.0 | 5571.3 | 6388.6 | 5200.8 |
| 42.5° | 5797.4 | 5900.9 | 6113.4 | 6372.2 | 6358.6 | 6105.2 | 5890.0 | 5854.6 | 6026.2 | 6952.5 | 5606.7 |
| 45° | 6173.4 | 6266.0 | 6562.9 | 6952.5 | 7165.0 | 6949.8 | 6625.6 | 6554.8 | 6579.3 | 7720.8 | 6298.7 |
| 47.5° | 6797.2 | 6772.7 | 7200.4 | 7584.6 | 7933.3 | 7767.1 | 7628.2 | 7421.1 | 7402.0 | 8625.3 | 7254.9 |
| 50° | 7502.8 | 7497.4 | 7878.8 | 8314.7 | 8717.9 | 9042.1 | 8810.5 | 8584.4 | 8589.8 | 9853.9 | 8380.1 |
| 52.5° | 8173.0 | 8279.3 | 8690.6 | 9123.8 | 9815.8 | 10164.5 | 10387.9 | 10298.0 | 9864.8 | 10951.8 | 9584.2 |
| 55° | 8527.2 | 8619.8 | 9028.5 | 9774.9 | 10867.4 | 11763.7 | 12368.5 | 12292.2 | 11455.8 | 12188.7 | 10772.0 |
| 57.5° | 8192.1 | 8254.7 | 8807.8 | 9785.8 | 11603.0 | 13602.6 | 14182.9 | 14087.6 | 13101.3 | 13134.0 | 12207.8 |
| 60° | 6789.1 | 6887.1 | 7709.9 | 8856.8 | 11316.9 | 15019.3 | 16681.1 | 16536.7 | 14599.7 | 14330.0 | 13131.3 |
| 62.5° | 4702.2 | 4767.6 | 5443.2 | 6870.8 | 9960.2 | 15512.4 | 19040.4 | 19119.4 | 16179.9 | 15261.7 | 13406.5 |
| 65° | 3045.8 | 3040.4 | 3427.2 | 4394.4 | 7058.8 | 14019.5 | 20435.3 | 20925.7 | 17705.5 | 15403.4 | 13322.0 |
| 67° | 2152.2 | 2144.1 | 2326.6 | 2980.4 | 4887.5 | 11551.2 | 20410.8 | 21465.1 | 18533.7 | 15444.3 | 12540.1 |
| 67.5° | 1986.0 | 1977.9 | 2152.2 | 2740.7 | 4410.7 | 10742.1 | 20105.6 | 21187.2 | 18825.2 | 15387.1 | 12196.9 |
| 70° | 1542.0 | 1520.2 | 1585.6 | 1888.0 | 2569.1 | 6947.1 | 17206.9 | 19462.7 | 18220.4 | 13959.5 | 9739.5 |
| 72.5° | 1114.3 | 1138.8 | 1242.3 | 1550.1 | 2016.0 | 3737.8 | 13115.0 | 15738.5 | 15218.2 | 10521.4 | 6189.7 |
| 75° | 776.4 | 798.2 | 964.4 | 1264.1 | 1849.8 | 2266.7 | 8867.7 | 11415.0 | 10600.4 | 5808.3 | 2637.2 |
| 77.5° | 405.9 | 433.2 | 615.7 | 1010.7 | 1680.9 | 1754.5 | 5298.8 | 7238.6 | 5617.6 | 2067.8 | 727.4 |
| 80° | 188.0 | 201.6 | 307.9 | 716.5 | 1405.8 | 1542.0 | 3089.4 | 4026.6 | 2247.6 | 463.1 | 250.6 |
| 82.5° | 81.7 | 89.9 | 141.7 | 411.4 | 997.1 | 1348.5 | 1912.5 | 2111.4 | 814.6 | 149.8 | 155.3 |
| 85° | 16.3 | 19.1 | 54.5 | 217.9 | 482.2 | 817.3 | 1343.1 | 1253.2 | 408.7 | 73.6 | 122.6 |
| 87.5° | 0.0 | 0.0 | 13.6 | 62.7 | 130.8 | 242.5 | 569.4 | 569.4 | 125.3 | 38.1 | 46.3 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5813.7 | 5813.7 | 5813.7 | 5813.7 | 5813.7 | 5813.7 | 5813.7 | 5813.7 | 5813.7 | 5813.7 | 5813.7 |
| 2.5° | 5816.5 | 5718.4 | 5503.2 | 5304.3 | 5162.6 | 5001.9 | 4789.4 | 4694.0 | 4658.6 | 4609.6 | 4536.0 |
| 5° | 5663.9 | 5544.0 | 5176.2 | 4805.7 | 4399.8 | 4092.0 | 3765.0 | 3574.3 | 3429.9 | 3340.0 | 3310.1 |
| 7.5° | 5448.7 | 5203.5 | 4707.7 | 4113.8 | 3588.0 | 3130.3 | 2634.4 | 2299.3 | 2084.1 | 1996.9 | 1915.2 |
| 10° | 5277.0 | 4958.3 | 4203.7 | 3465.4 | 2765.2 | 2095.0 | 1536.5 | 1242.3 | 1018.9 | 934.4 | 923.6 |
| 12.5° | 5053.6 | 4672.2 | 3732.3 | 2803.3 | 1923.4 | 1247.7 | 850.0 | 738.3 | 675.6 | 664.7 | 656.6 |
| 15° | 4868.4 | 4413.4 | 3285.6 | 2171.3 | 1245.0 | 779.2 | 662.0 | 634.8 | 618.4 | 613.0 | 615.7 |
| 17.5° | 4743.1 | 4135.5 | 2827.9 | 1580.1 | 820.0 | 637.5 | 610.3 | 593.9 | 585.7 | 583.0 | 574.8 |
| 20° | 4495.2 | 3901.3 | 2375.6 | 1106.1 | 640.2 | 588.5 | 566.7 | 553.0 | 544.9 | 542.1 | 539.4 |
| 22.5° | 4353.5 | 3604.3 | 1923.4 | 771.0 | 569.4 | 534.0 | 517.6 | 506.7 | 493.1 | 484.9 | 482.2 |
| 25° | 4211.8 | 3386.4 | 1520.2 | 599.4 | 517.6 | 493.1 | 468.6 | 455.0 | 433.2 | 422.3 | 419.5 |
| 27.5° | 4045.6 | 3171.1 | 1171.5 | 520.3 | 465.9 | 441.3 | 416.8 | 395.0 | 367.8 | 356.9 | 351.4 |
| 30° | 3950.3 | 2961.4 | 882.7 | 465.9 | 427.7 | 395.0 | 365.1 | 337.8 | 307.9 | 288.8 | 283.3 |
| 32.5° | 3901.3 | 2770.7 | 662.0 | 425.0 | 386.9 | 351.4 | 313.3 | 280.6 | 253.4 | 237.0 | 234.3 |
| 35° | 3841.3 | 2585.4 | 520.3 | 386.9 | 348.7 | 310.6 | 272.4 | 239.7 | 212.5 | 198.9 | 193.4 |
| 37.5° | 3904.0 | 2476.4 | 433.2 | 356.9 | 318.7 | 275.2 | 234.3 | 201.6 | 179.8 | 166.2 | 163.5 |
| 40° | 4075.6 | 2386.5 | 376.0 | 329.6 | 288.8 | 242.5 | 204.3 | 171.6 | 152.6 | 141.7 | 136.2 |
| 42.5° | 4339.9 | 2386.5 | 340.5 | 302.4 | 261.5 | 212.5 | 174.4 | 149.8 | 130.8 | 119.9 | 117.1 |
| 45° | 4819.4 | 2460.1 | 310.6 | 275.2 | 228.8 | 182.5 | 149.8 | 125.3 | 106.2 | 95.4 | 92.6 |
| 47.5° | 5492.3 | 2629.0 | 286.1 | 250.6 | 204.3 | 160.7 | 130.8 | 106.2 | 87.2 | 76.3 | 73.6 |
| 50° | 6396.7 | 3013.1 | 261.5 | 220.7 | 182.5 | 138.9 | 109.0 | 84.5 | 68.1 | 57.2 | 54.5 |
| 52.5° | 7524.6 | 3558.0 | 237.0 | 204.3 | 155.3 | 117.1 | 87.2 | 68.1 | 51.8 | 43.6 | 40.9 |
| 55° | 8717.9 | 4225.5 | 207.0 | 182.5 | 133.5 | 98.1 | 70.8 | 51.8 | 38.1 | 32.7 | 30.0 |
| 57.5° | 9919.3 | 4740.4 | 182.5 | 158.0 | 109.0 | 79.0 | 57.2 | 40.9 | 27.2 | 21.8 | 19.1 |
| 60° | 10556.8 | 4789.4 | 158.0 | 130.8 | 87.2 | 62.7 | 43.6 | 30.0 | 19.1 | 13.6 | 10.9 |
| 62.5° | 10654.9 | 4353.5 | 136.2 | 106.2 | 70.8 | 49.0 | 30.0 | 21.8 | 10.9 | 5.4 | 5.4 |
| 65° | 10150.9 | 3628.8 | 117.1 | 84.5 | 54.5 | 35.4 | 21.8 | 13.6 | 5.4 | 2.7 | 0.0 |
| 67° | 9333.6 | 3040.4 | 100.8 | 70.8 | 43.6 | 27.2 | 16.3 | 8.2 | 2.7 | 0.0 | 0.0 |
| 67.5° | 9017.6 | 2876.9 | 95.4 | 65.4 | 40.9 | 24.5 | 13.6 | 8.2 | 2.7 | 0.0 | 0.0 |
| 70° | 6998.8 | 2054.2 | 70.8 | 46.3 | 30.0 | 19.1 | 10.9 | 5.4 | 0.0 | 0.0 | 0.0 |
| 72.5° | 4288.1 | 1201.4 | 54.5 | 32.7 | 21.8 | 13.6 | 8.2 | 2.7 | 0.0 | 0.0 | 0.0 |
| 75° | 1798.1 | 414.1 | 46.3 | 24.5 | 16.3 | 8.2 | 5.4 | 2.7 | 0.0 | 0.0 | 0.0 |
| 77.5° | 468.6 | 155.3 | 32.7 | 16.3 | 10.9 | 8.2 | 5.4 | 2.7 | 0.0 | 0.0 | 0.0 |
| 80° | 190.7 | 70.8 | 21.8 | 10.9 | 10.9 | 8.2 | 5.4 | 2.7 | 0.0 | 0.0 | 0.0 |
| 82.5° | 125.3 | 32.7 | 13.6 | 10.9 | 8.2 | 5.4 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 95.4 | 19.1 | 8.2 | 8.2 | 5.4 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 40.9 | 10.9 | 8.2 | 5.4 | 5.4 | 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)