

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: P484270

Luminaire Tested: **IFLD-L-SA8A-722-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484270
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-722-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

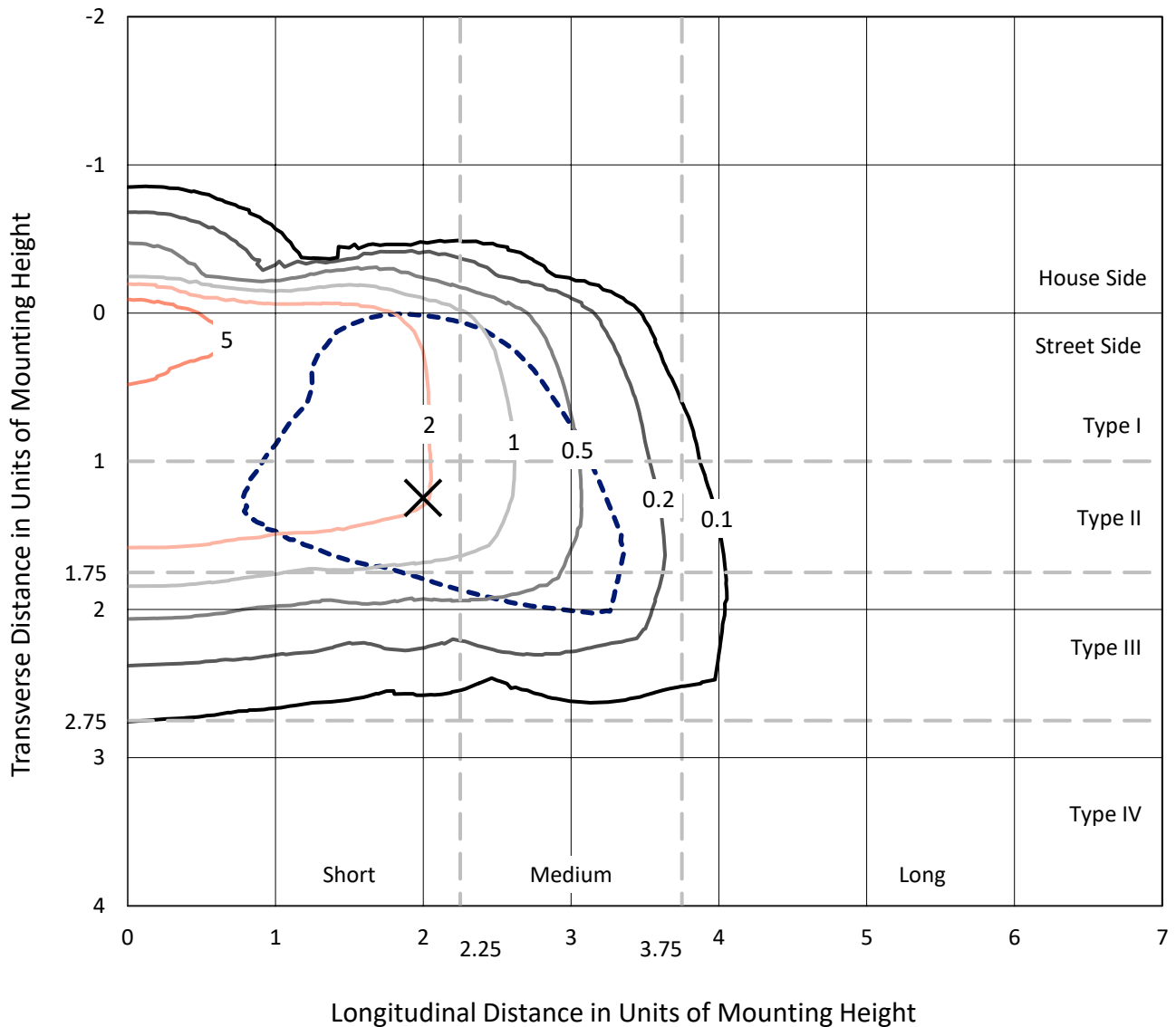
Lumens per Lamp: N/A
Luminaire Lumens: 21102.3 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8
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

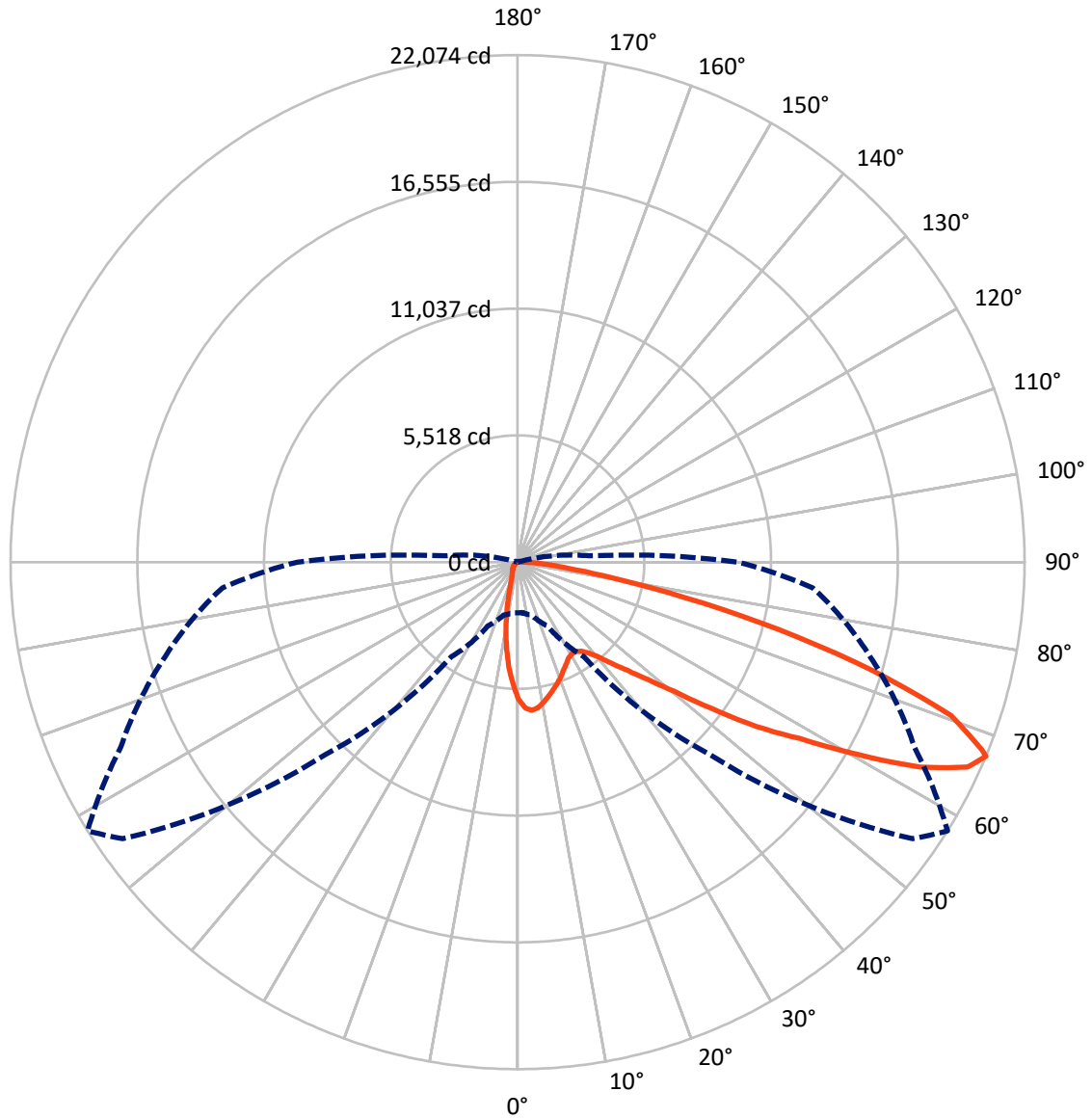
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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 | 1744.2 | 0.0 | 1744.2 |
| | % Fixture | 8.3 | 0.0 | 8.3 |
| Street Side | Lumens | 19358.1 | 0.0 | 19358.1 |
| | % Fixture | 91.7 | 0.0 | 91.7 |
| Total | Lumens | 21102.3 | 0.0 | 21102.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 474.4 | 2.2 |
| 10°-20° | 983.9 | 4.7 |
| 20°-30° | 1305.5 | 6.2 |
| 30°-40° | 1809.0 | 8.6 |
| 40°-50° | 2951.7 | 14.0 |
| 50°-60° | 5188.2 | 24.6 |
| 60°-70° | 5746.3 | 27.2 |
| 70°-80° | 2381.3 | 11.3 |
| 80°-90° | 262.1 | 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° | 21102.3 | 100.0 |
| 0°-180° | 21102.3 | 100.0 |



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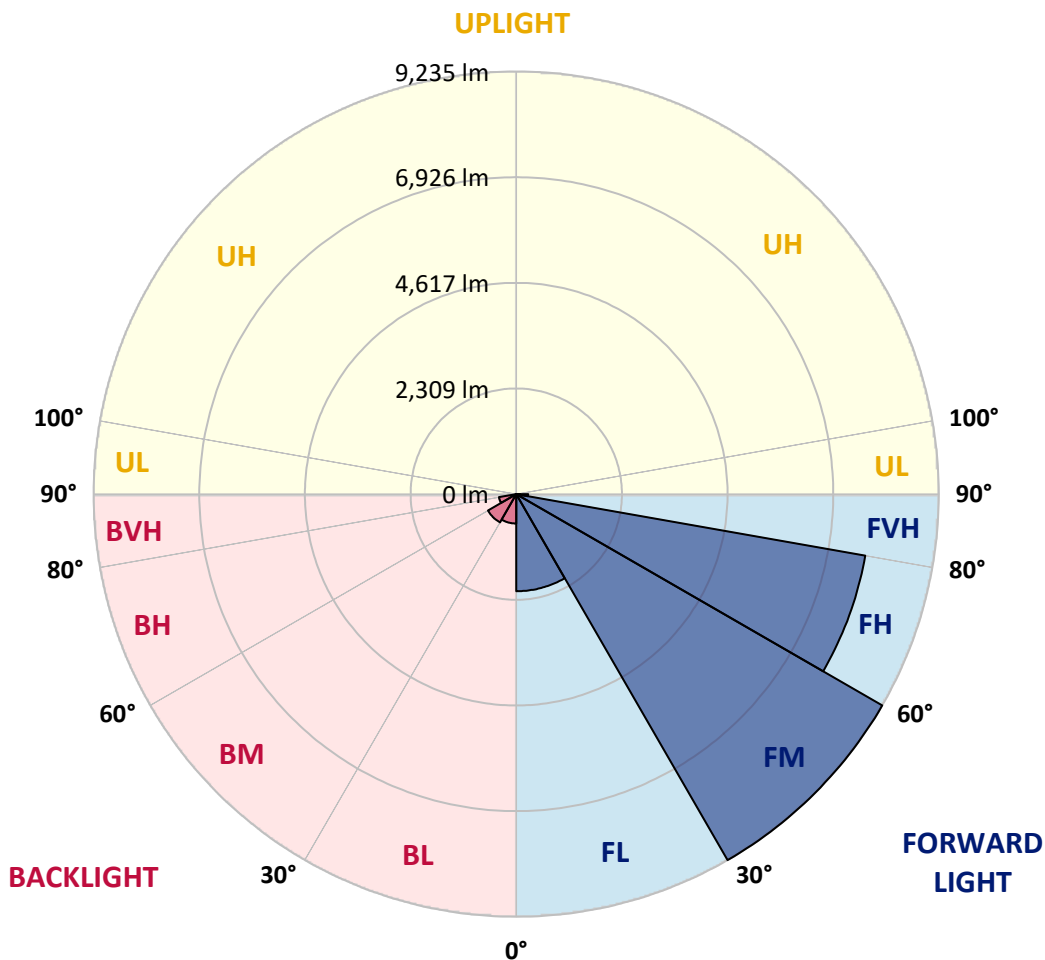
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2121.4 | 10.1 | | | |
| FM (30°-60°) | 9234.8 | 43.8 | | | |
| FH (60°-80°) | 7744.1 | 36.7 | | | G4/12000 |
| FVH (80°-90°) | 257.8 | 1.2 | | | G3/500 |
| BL (0°-30°) | 642.4 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 714.0 | 3.4 | B1/1000 | | |
| BH (60°-80°) | 383.5 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.3 | 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° | 5978.6 | 5978.6 | 5978.6 | 5978.6 | 5978.6 | 5978.6 | 5978.6 | 5978.6 | 5978.6 | 5978.6 | 5978.6 |
| 2.5° | 6505.3 | 6527.7 | 6547.3 | 6510.9 | 6541.7 | 6496.9 | 6382.0 | 6356.8 | 6337.2 | 6166.3 | 6068.2 |
| 5° | 6502.5 | 6477.3 | 6496.9 | 6513.7 | 6471.7 | 6505.3 | 6477.3 | 6480.1 | 6404.4 | 6250.3 | 5975.8 |
| 7.5° | 6068.2 | 6057.0 | 6068.2 | 6149.5 | 6241.9 | 6314.8 | 6356.8 | 6398.8 | 6348.4 | 6118.7 | 5852.5 |
| 10° | 5482.7 | 5538.7 | 5569.6 | 5715.2 | 5858.1 | 5992.6 | 6124.3 | 6202.7 | 6188.7 | 6096.3 | 5718.0 |
| 12.5° | 5073.7 | 5056.9 | 5168.9 | 5264.2 | 5407.1 | 5678.8 | 5908.5 | 5981.4 | 6065.4 | 5936.6 | 5541.5 |
| 15° | 4695.5 | 4650.6 | 4717.9 | 4883.2 | 5126.9 | 5342.6 | 5664.8 | 5774.1 | 5880.5 | 5914.1 | 5446.3 |
| 17.5° | 4334.1 | 4356.5 | 4426.5 | 4575.0 | 4804.7 | 5107.3 | 5409.9 | 5566.8 | 5821.7 | 5776.9 | 5303.4 |
| 20° | 4160.4 | 4208.0 | 4233.2 | 4308.8 | 4468.5 | 4771.1 | 5222.2 | 5348.2 | 5620.0 | 5774.1 | 5163.3 |
| 22.5° | 4168.8 | 4168.8 | 4109.9 | 4154.8 | 4300.4 | 4535.8 | 4967.2 | 5107.3 | 5538.7 | 5628.4 | 5037.3 |
| 25° | 4258.4 | 4202.4 | 4205.2 | 4152.0 | 4213.6 | 4342.5 | 4737.5 | 4908.4 | 5373.4 | 5642.4 | 4970.0 |
| 27.5° | 4325.6 | 4314.4 | 4297.6 | 4283.6 | 4205.2 | 4224.8 | 4586.2 | 4726.3 | 5309.0 | 5625.6 | 4866.4 |
| 30° | 4569.4 | 4519.0 | 4502.1 | 4471.3 | 4367.7 | 4272.4 | 4465.7 | 4642.2 | 5258.6 | 5664.8 | 4807.5 |
| 32.5° | 4773.9 | 4782.3 | 4796.3 | 4706.7 | 4617.0 | 4381.7 | 4499.3 | 4639.4 | 5222.2 | 5754.5 | 4866.4 |
| 35° | 5031.6 | 5068.1 | 5073.7 | 5045.7 | 4950.4 | 4717.9 | 4639.4 | 4759.9 | 5283.8 | 5914.1 | 4872.0 |
| 37.5° | 5423.9 | 5384.6 | 5491.1 | 5502.3 | 5435.1 | 5126.9 | 4964.4 | 5012.0 | 5465.9 | 6169.1 | 5084.9 |
| 40° | 5678.8 | 5726.4 | 5925.4 | 6048.6 | 5933.8 | 5653.6 | 5435.1 | 5426.7 | 5729.2 | 6569.7 | 5348.2 |
| 42.5° | 5961.8 | 6068.2 | 6286.8 | 6552.9 | 6538.9 | 6278.4 | 6057.0 | 6020.6 | 6197.1 | 7149.6 | 5765.7 |
| 45° | 6348.4 | 6443.6 | 6749.0 | 7149.6 | 7368.2 | 7146.8 | 6813.5 | 6740.6 | 6765.8 | 7939.7 | 6477.3 |
| 47.5° | 6990.0 | 6964.7 | 7404.6 | 7799.6 | 8158.2 | 7987.3 | 7844.4 | 7631.5 | 7611.9 | 8869.8 | 7460.6 |
| 50° | 7715.6 | 7710.0 | 8102.2 | 8550.4 | 8965.1 | 9298.5 | 9060.3 | 8827.8 | 8833.4 | 10133.3 | 8617.7 |
| 52.5° | 8404.8 | 8514.0 | 8937.1 | 9382.5 | 10094.1 | 10452.7 | 10682.5 | 10590.0 | 10144.5 | 11262.4 | 9856.0 |
| 55° | 8769.0 | 8864.2 | 9284.5 | 10052.1 | 11175.5 | 12097.3 | 12719.2 | 12640.8 | 11780.7 | 12534.3 | 11077.5 |
| 57.5° | 8424.4 | 8488.8 | 9057.5 | 10063.3 | 11932.0 | 13988.3 | 14585.1 | 14487.0 | 13472.8 | 13506.4 | 12553.9 |
| 60° | 6981.6 | 7082.4 | 7928.5 | 9108.0 | 11637.8 | 15445.1 | 17154.1 | 17005.6 | 15013.7 | 14736.3 | 13503.6 |
| 62.5° | 4835.5 | 4902.8 | 5597.6 | 7065.6 | 10242.6 | 15952.2 | 19580.3 | 19661.5 | 16638.6 | 15694.5 | 13786.6 |
| 65° | 3132.2 | 3126.6 | 3524.4 | 4519.0 | 7258.9 | 14417.0 | 21014.7 | 21519.0 | 18207.5 | 15840.2 | 13699.8 |
| 67° | 2213.3 | 2204.8 | 2392.6 | 3064.9 | 5026.0 | 11878.7 | 20989.5 | 22073.7 | 19059.2 | 15882.2 | 12895.7 |
| 67.5° | 2042.4 | 2034.0 | 2213.3 | 2818.4 | 4535.8 | 11046.7 | 20675.7 | 21787.9 | 19359.0 | 15823.4 | 12542.7 |
| 70° | 1585.7 | 1563.3 | 1630.5 | 1941.5 | 2641.9 | 7144.0 | 17694.8 | 20014.5 | 18737.0 | 14355.3 | 10015.7 |
| 72.5° | 1145.8 | 1171.1 | 1277.5 | 1594.1 | 2073.2 | 3843.8 | 13486.8 | 16184.8 | 15649.7 | 10819.7 | 6365.2 |
| 75° | 798.5 | 820.9 | 991.8 | 1299.9 | 1902.3 | 2330.9 | 9119.2 | 11738.6 | 10901.0 | 5973.0 | 2711.9 |
| 77.5° | 417.4 | 445.5 | 633.2 | 1039.4 | 1728.6 | 1804.2 | 5449.1 | 7443.8 | 5776.9 | 2126.4 | 748.0 |
| 80° | 193.3 | 207.3 | 316.6 | 736.8 | 1445.6 | 1585.7 | 3177.0 | 4140.7 | 2311.3 | 476.3 | 257.7 |
| 82.5° | 84.0 | 92.5 | 145.7 | 423.0 | 1025.4 | 1386.8 | 1966.7 | 2171.2 | 837.7 | 154.1 | 159.7 |
| 85° | 16.8 | 19.6 | 56.0 | 224.1 | 495.9 | 840.5 | 1381.2 | 1288.7 | 420.2 | 75.6 | 126.1 |
| 87.5° | 0.0 | 0.0 | 14.0 | 64.4 | 134.5 | 249.3 | 585.5 | 585.5 | 128.9 | 39.2 | 47.6 |
| 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° | 5978.6 | 5978.6 | 5978.6 | 5978.6 | 5978.6 | 5978.6 | 5978.6 | 5978.6 | 5978.6 | 5978.6 | 5978.6 |
| 2.5° | 5981.4 | 5880.5 | 5659.2 | 5454.7 | 5309.0 | 5143.7 | 4925.2 | 4827.1 | 4790.7 | 4740.3 | 4664.6 |
| 5° | 5824.5 | 5701.2 | 5323.0 | 4942.0 | 4524.6 | 4208.0 | 3871.8 | 3675.7 | 3527.2 | 3434.7 | 3403.9 |
| 7.5° | 5603.2 | 5351.0 | 4841.1 | 4230.4 | 3689.7 | 3219.0 | 2709.1 | 2364.5 | 2143.2 | 2053.6 | 1969.5 |
| 10° | 5426.7 | 5098.9 | 4322.8 | 3563.6 | 2843.6 | 2154.4 | 1580.1 | 1277.5 | 1047.8 | 960.9 | 949.7 |
| 12.5° | 5196.9 | 4804.7 | 3838.2 | 2882.8 | 1977.9 | 1283.1 | 874.1 | 759.2 | 694.8 | 683.6 | 675.2 |
| 15° | 5006.4 | 4538.6 | 3378.7 | 2232.9 | 1280.3 | 801.3 | 680.8 | 652.8 | 636.0 | 630.4 | 633.2 |
| 17.5° | 4877.6 | 4252.8 | 2908.0 | 1624.9 | 843.3 | 655.6 | 627.6 | 610.7 | 602.3 | 599.5 | 591.1 |
| 20° | 4622.6 | 4011.9 | 2443.0 | 1137.4 | 658.4 | 605.1 | 582.7 | 568.7 | 560.3 | 557.5 | 554.7 |
| 22.5° | 4476.9 | 3706.5 | 1977.9 | 792.8 | 585.5 | 549.1 | 532.3 | 521.1 | 507.1 | 498.7 | 495.9 |
| 25° | 4331.3 | 3482.4 | 1563.3 | 616.3 | 532.3 | 507.1 | 481.9 | 467.9 | 445.5 | 434.2 | 431.4 |
| 27.5° | 4160.4 | 3261.0 | 1204.7 | 535.1 | 479.1 | 453.9 | 428.6 | 406.2 | 378.2 | 367.0 | 361.4 |
| 30° | 4062.3 | 3045.3 | 907.7 | 479.1 | 439.8 | 406.2 | 375.4 | 347.4 | 316.6 | 297.0 | 291.4 |
| 32.5° | 4011.9 | 2849.2 | 680.8 | 437.0 | 397.8 | 361.4 | 322.2 | 288.6 | 260.5 | 243.7 | 240.9 |
| 35° | 3950.2 | 2658.7 | 535.1 | 397.8 | 358.6 | 319.4 | 280.2 | 246.5 | 218.5 | 204.5 | 198.9 |
| 37.5° | 4014.7 | 2546.6 | 445.5 | 367.0 | 327.8 | 283.0 | 240.9 | 207.3 | 184.9 | 170.9 | 168.1 |
| 40° | 4191.2 | 2454.2 | 386.6 | 339.0 | 297.0 | 249.3 | 210.1 | 176.5 | 156.9 | 145.7 | 140.1 |
| 42.5° | 4462.9 | 2454.2 | 350.2 | 311.0 | 269.0 | 218.5 | 179.3 | 154.1 | 134.5 | 123.3 | 120.5 |
| 45° | 4956.0 | 2529.8 | 319.4 | 283.0 | 235.3 | 187.7 | 154.1 | 128.9 | 109.3 | 98.1 | 95.3 |
| 47.5° | 5648.0 | 2703.5 | 294.2 | 257.7 | 210.1 | 165.3 | 134.5 | 109.3 | 89.7 | 78.4 | 75.6 |
| 50° | 6578.1 | 3098.6 | 269.0 | 226.9 | 187.7 | 142.9 | 112.1 | 86.8 | 70.0 | 58.8 | 56.0 |
| 52.5° | 7738.0 | 3658.9 | 243.7 | 210.1 | 159.7 | 120.5 | 89.7 | 70.0 | 53.2 | 44.8 | 42.0 |
| 55° | 8965.1 | 4345.3 | 212.9 | 187.7 | 137.3 | 100.9 | 72.8 | 53.2 | 39.2 | 33.6 | 30.8 |
| 57.5° | 10200.6 | 4874.8 | 187.7 | 162.5 | 112.1 | 81.2 | 58.8 | 42.0 | 28.0 | 22.4 | 19.6 |
| 60° | 10856.1 | 4925.2 | 162.5 | 134.5 | 89.7 | 64.4 | 44.8 | 30.8 | 19.6 | 14.0 | 11.2 |
| 62.5° | 10957.0 | 4476.9 | 140.1 | 109.3 | 72.8 | 50.4 | 30.8 | 22.4 | 11.2 | 5.6 | 5.6 |
| 65° | 10438.7 | 3731.7 | 120.5 | 86.8 | 56.0 | 36.4 | 22.4 | 14.0 | 5.6 | 2.8 | 0.0 |
| 67° | 9598.2 | 3126.6 | 103.7 | 72.8 | 44.8 | 28.0 | 16.8 | 8.4 | 2.8 | 0.0 | 0.0 |
| 67.5° | 9273.3 | 2958.5 | 98.1 | 67.2 | 42.0 | 25.2 | 14.0 | 8.4 | 2.8 | 0.0 | 0.0 |
| 70° | 7197.3 | 2112.4 | 72.8 | 47.6 | 30.8 | 19.6 | 11.2 | 5.6 | 0.0 | 0.0 | 0.0 |
| 72.5° | 4409.7 | 1235.5 | 56.0 | 33.6 | 22.4 | 14.0 | 8.4 | 2.8 | 0.0 | 0.0 | 0.0 |
| 75° | 1849.0 | 425.8 | 47.6 | 25.2 | 16.8 | 8.4 | 5.6 | 2.8 | 0.0 | 0.0 | 0.0 |
| 77.5° | 481.9 | 159.7 | 33.6 | 16.8 | 11.2 | 8.4 | 5.6 | 2.8 | 0.0 | 0.0 | 0.0 |
| 80° | 196.1 | 72.8 | 22.4 | 11.2 | 11.2 | 8.4 | 5.6 | 2.8 | 0.0 | 0.0 | 0.0 |
| 82.5° | 128.9 | 33.6 | 14.0 | 11.2 | 8.4 | 5.6 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 98.1 | 19.6 | 8.4 | 8.4 | 5.6 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 42.0 | 11.2 | 8.4 | 5.6 | 5.6 | 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)