

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: P480516

Luminaire Tested: **IFLD-M-SA4A-740-U-SL3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P480516
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-740-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

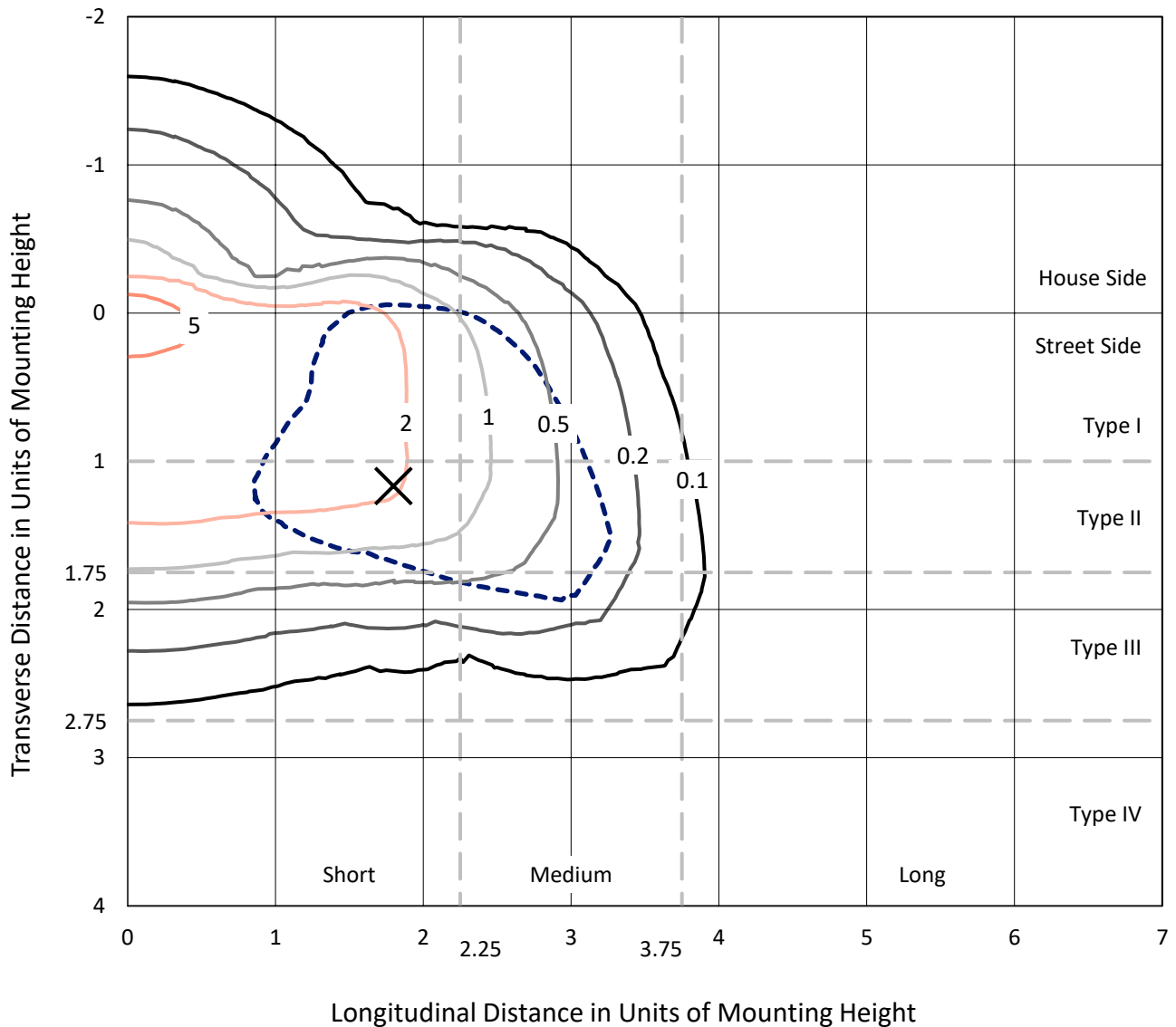
Lumens per Lamp: N/A
Luminaire Lumens: 18222.2 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 128.6
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

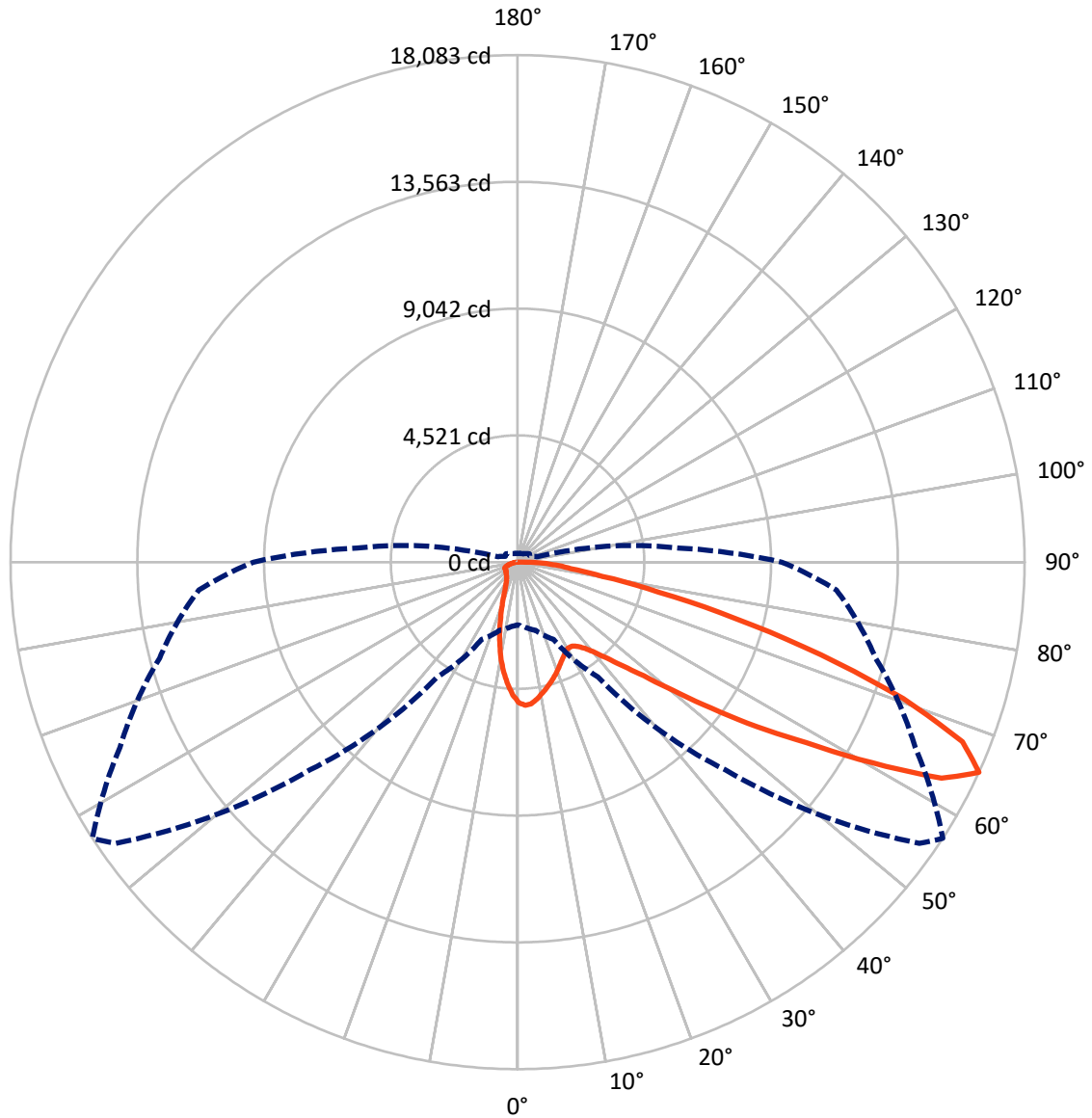
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2794.6 | 0.0 | 2794.6 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 15427.7 | 0.0 | 15427.7 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 18222.2 | 0.0 | 18222.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 419.6 | 2.3 |
| 10°-20° | 903.1 | 5.0 |
| 20°-30° | 1167.6 | 6.4 |
| 30°-40° | 1571.2 | 8.6 |
| 40°-50° | 2505.4 | 13.7 |
| 50°-60° | 4425.1 | 24.3 |
| 60°-70° | 4868.2 | 26.7 |
| 70°-80° | 2036.5 | 11.2 |
| 80°-90° | 325.5 | 1.8 |
| 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° | 18222.2 | 100.0 |
| 0°-180° | 18222.2 | 100.0 |

Coefficient of Utilization



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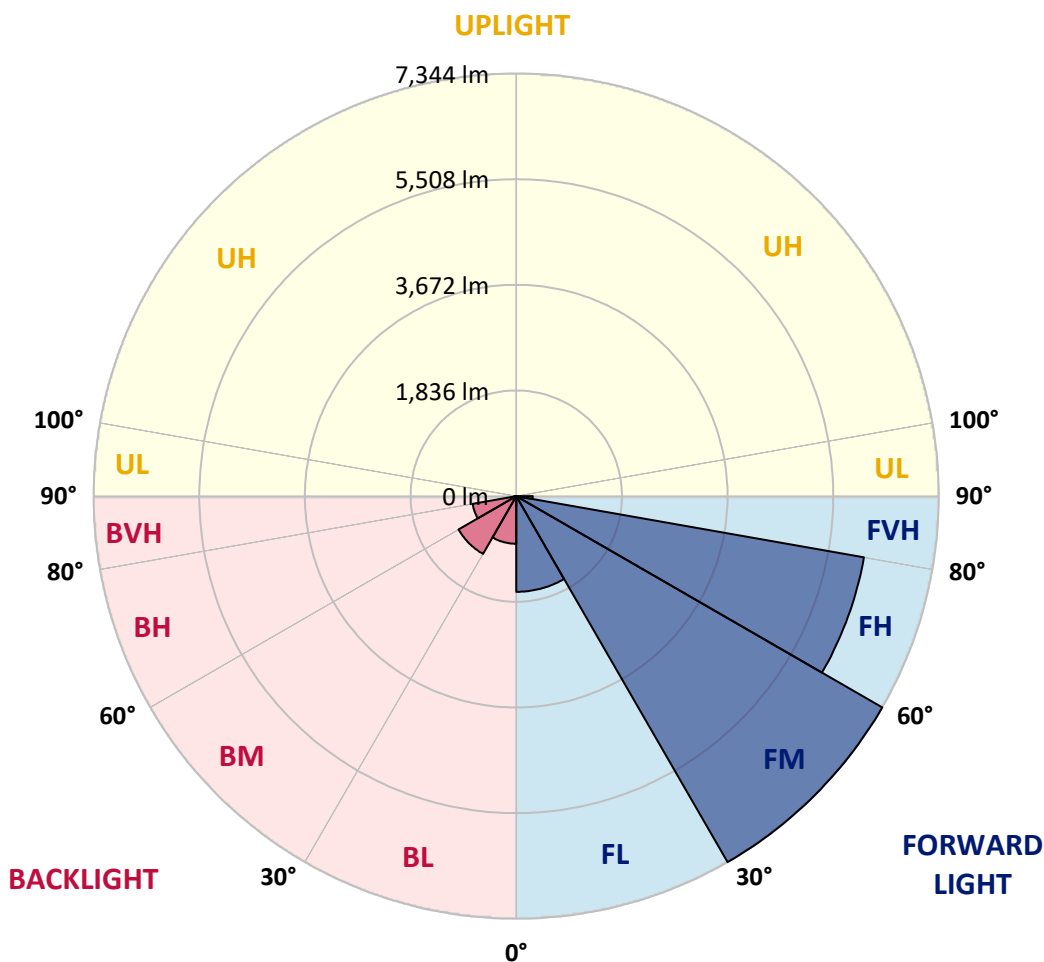
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1662.7 | 9.1 | | | |
| FM (30°-60°) | 7343.5 | 40.3 | | | |
| FH (60°-80°) | 6134.1 | 33.7 | | | G3/7500 |
| FVH (80°-90°) | 287.3 | 1.6 | | | G3/500 |
| BL (0°-30°) | 827.6 | 4.5 | B2/1000 | | |
| BM (30°-60°) | 1158.2 | 6.4 | B2/2500 | | |
| BH (60°-80°) | 770.5 | 4.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 38.2 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 5010.9 | 5010.9 | 5010.9 | 5010.9 | 5010.9 | 5010.9 | 5010.9 | 5010.9 | 5010.9 | 5010.9 | 5010.9 |
| 2.5° | 5146.2 | 5154.4 | 5154.4 | 5170.8 | 5115.4 | 5142.1 | 5138.0 | 5113.4 | 5121.6 | 5078.5 | 5035.5 |
| 5° | 5000.6 | 4994.5 | 5027.3 | 5031.4 | 5074.4 | 5086.7 | 5097.0 | 5080.6 | 5084.7 | 4990.4 | 4949.3 |
| 7.5° | 4627.5 | 4625.4 | 4680.8 | 4727.9 | 4818.1 | 4902.2 | 4957.5 | 4941.1 | 4963.7 | 4904.2 | 4807.9 |
| 10° | 4184.6 | 4231.8 | 4289.2 | 4336.3 | 4502.4 | 4609.0 | 4752.5 | 4766.9 | 4853.0 | 4838.6 | 4664.4 |
| 12.5° | 3852.5 | 3873.0 | 3916.0 | 4051.3 | 4203.0 | 4379.4 | 4584.4 | 4602.9 | 4686.9 | 4727.9 | 4576.2 |
| 15° | 3579.8 | 3598.2 | 3653.6 | 3754.0 | 3924.2 | 4133.3 | 4393.7 | 4440.9 | 4609.0 | 4623.4 | 4461.4 |
| 17.5° | 3380.9 | 3395.2 | 3432.1 | 3532.6 | 3672.0 | 3940.6 | 4186.6 | 4270.7 | 4492.1 | 4561.8 | 4342.5 |
| 20° | 3303.0 | 3272.2 | 3292.7 | 3356.3 | 3495.7 | 3702.8 | 4020.6 | 4094.4 | 4377.3 | 4514.7 | 4229.7 |
| 22.5° | 3268.1 | 3241.5 | 3253.8 | 3249.7 | 3360.4 | 3508.0 | 3842.2 | 3920.1 | 4268.7 | 4459.3 | 4129.2 |
| 25° | 3294.8 | 3294.8 | 3282.5 | 3272.2 | 3284.5 | 3380.9 | 3649.5 | 3770.4 | 4123.1 | 4412.2 | 4026.7 |
| 27.5° | 3438.3 | 3382.9 | 3389.1 | 3346.0 | 3333.7 | 3333.7 | 3563.4 | 3635.1 | 4075.9 | 4385.5 | 3942.7 |
| 30° | 3530.6 | 3557.2 | 3559.3 | 3495.7 | 3432.1 | 3317.3 | 3483.4 | 3553.1 | 4037.0 | 4418.3 | 3893.5 |
| 32.5° | 3766.3 | 3754.0 | 3719.2 | 3706.9 | 3612.6 | 3483.4 | 3522.4 | 3569.5 | 4014.4 | 4492.1 | 3907.8 |
| 35° | 4002.1 | 3996.0 | 3998.0 | 3991.9 | 3893.5 | 3702.8 | 3626.9 | 3690.5 | 4055.4 | 4621.3 | 3957.0 |
| 37.5° | 4246.1 | 4262.5 | 4332.2 | 4332.2 | 4227.7 | 4020.6 | 3920.1 | 3901.7 | 4205.1 | 4832.5 | 4073.9 |
| 40° | 4490.1 | 4531.1 | 4619.3 | 4758.7 | 4611.1 | 4418.3 | 4256.4 | 4227.7 | 4385.5 | 5115.4 | 4354.8 |
| 42.5° | 4723.8 | 4791.5 | 4965.7 | 5172.8 | 5123.6 | 4930.9 | 4715.6 | 4682.8 | 4756.6 | 5535.7 | 4746.4 |
| 45° | 5023.2 | 5080.6 | 5355.3 | 5673.1 | 5740.8 | 5570.6 | 5318.4 | 5291.7 | 5287.6 | 6150.8 | 5285.6 |
| 47.5° | 5478.3 | 5539.8 | 5814.6 | 6134.4 | 6343.5 | 6370.2 | 6087.2 | 6058.5 | 5960.1 | 6981.2 | 6074.9 |
| 50° | 6048.3 | 6148.8 | 6380.4 | 6753.6 | 7057.0 | 7342.0 | 7262.0 | 7178.0 | 6985.3 | 7946.8 | 7075.5 |
| 52.5° | 6464.5 | 6587.5 | 6901.2 | 7378.9 | 7914.0 | 8367.1 | 8654.2 | 8654.2 | 8211.3 | 9006.8 | 8279.0 |
| 55° | 6575.2 | 6649.0 | 7044.7 | 7735.7 | 8652.1 | 9798.2 | 10399.0 | 10353.9 | 9671.1 | 10122.2 | 9679.3 |
| 57.5° | 6134.4 | 6230.8 | 6710.5 | 7434.3 | 9039.6 | 11137.1 | 12131.4 | 12141.7 | 11266.2 | 11417.9 | 11061.2 |
| 60° | 4920.6 | 4951.4 | 5517.3 | 6485.0 | 8666.5 | 12215.5 | 14497.4 | 14536.4 | 13080.7 | 12572.2 | 11764.4 |
| 62.5° | 3401.4 | 3499.8 | 3926.3 | 4775.1 | 7180.0 | 12094.5 | 16779.4 | 16972.1 | 14534.3 | 13181.2 | 11875.2 |
| 65° | 2238.9 | 2298.4 | 2525.9 | 3042.6 | 4998.6 | 10483.0 | 17488.8 | 18083.4 | 15645.6 | 13216.0 | 11411.8 |
| 67.5° | 1623.8 | 1634.1 | 1701.7 | 1968.3 | 3003.6 | 7538.8 | 16277.1 | 17115.6 | 16061.8 | 12924.9 | 10325.1 |
| 70° | 1312.2 | 1320.4 | 1345.0 | 1515.1 | 1939.6 | 4717.7 | 13275.5 | 14589.7 | 14813.2 | 11545.1 | 8315.9 |
| 72.5° | 1066.1 | 1076.4 | 1107.1 | 1267.1 | 1599.2 | 2624.3 | 9708.0 | 11309.3 | 12049.4 | 8541.4 | 5527.5 |
| 75° | 838.6 | 846.8 | 920.6 | 1078.4 | 1502.8 | 1802.2 | 6439.9 | 8008.3 | 8108.8 | 4992.4 | 2587.4 |
| 77.5° | 574.1 | 588.4 | 678.6 | 914.4 | 1414.7 | 1576.7 | 4014.4 | 5129.8 | 4602.9 | 1953.9 | 889.8 |
| 80° | 364.9 | 385.5 | 438.8 | 693.0 | 1250.7 | 1504.9 | 2497.2 | 3063.1 | 2015.4 | 668.4 | 428.5 |
| 82.5° | 215.3 | 235.8 | 289.1 | 449.0 | 982.1 | 1396.2 | 1759.1 | 1917.0 | 945.2 | 342.4 | 258.3 |
| 85° | 118.9 | 133.3 | 174.3 | 270.6 | 576.1 | 1240.4 | 1408.5 | 1375.7 | 541.3 | 182.5 | 162.0 |
| 87.5° | 39.0 | 45.1 | 63.6 | 108.7 | 237.8 | 584.3 | 844.7 | 793.5 | 280.9 | 84.1 | 63.6 |
| 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° | 5010.9 | 5010.9 | 5010.9 | 5010.9 | 5010.9 | 5010.9 | 5010.9 | 5010.9 | 5010.9 | 5010.9 | 5010.9 |
| 2.5° | 5006.8 | 5000.6 | 4908.3 | 4838.6 | 4719.7 | 4621.3 | 4582.3 | 4529.0 | 4527.0 | 4488.0 | 4477.8 |
| 5° | 4885.8 | 4822.2 | 4680.8 | 4545.4 | 4334.3 | 4192.8 | 4063.6 | 3973.4 | 3936.5 | 3856.6 | 3838.1 |
| 7.5° | 4730.0 | 4645.9 | 4428.6 | 4174.3 | 3926.3 | 3704.8 | 3503.9 | 3303.0 | 3190.2 | 3151.3 | 3108.2 |
| 10° | 4568.0 | 4420.4 | 4098.5 | 3813.5 | 3467.0 | 3126.7 | 2810.9 | 2528.0 | 2374.2 | 2265.5 | 2218.4 |
| 12.5° | 4438.8 | 4242.0 | 3832.0 | 3405.5 | 2948.3 | 2493.1 | 2126.1 | 1828.8 | 1654.6 | 1572.6 | 1535.7 |
| 15° | 4293.3 | 4032.9 | 3540.8 | 3001.6 | 2431.6 | 1915.0 | 1556.2 | 1322.4 | 1252.7 | 1213.8 | 1207.6 |
| 17.5° | 4139.5 | 3838.1 | 3225.1 | 2603.8 | 1927.3 | 1441.3 | 1209.7 | 1115.3 | 1084.6 | 1068.2 | 1060.0 |
| 20° | 3996.0 | 3663.8 | 2901.1 | 2161.0 | 1509.0 | 1156.4 | 1047.7 | 998.5 | 996.4 | 1004.6 | 1002.6 |
| 22.5° | 3793.0 | 3436.2 | 2581.3 | 1750.9 | 1205.6 | 1006.7 | 937.0 | 924.7 | 937.0 | 947.2 | 951.3 |
| 25° | 3678.2 | 3249.7 | 2224.5 | 1390.1 | 996.4 | 893.9 | 871.4 | 867.3 | 885.7 | 898.0 | 896.0 |
| 27.5° | 3559.3 | 3056.9 | 1892.4 | 1113.3 | 873.4 | 814.0 | 809.9 | 814.0 | 832.4 | 850.9 | 848.8 |
| 30° | 3467.0 | 2903.2 | 1580.8 | 930.8 | 779.1 | 756.5 | 752.4 | 756.5 | 766.8 | 768.9 | 768.9 |
| 32.5° | 3391.1 | 2720.7 | 1316.3 | 807.8 | 721.7 | 703.2 | 707.3 | 705.3 | 707.3 | 709.4 | 711.4 |
| 35° | 3346.0 | 2612.0 | 1098.9 | 731.9 | 674.5 | 660.2 | 658.1 | 652.0 | 654.0 | 656.1 | 654.0 |
| 37.5° | 3442.4 | 2558.7 | 926.7 | 678.6 | 641.7 | 629.4 | 625.3 | 621.2 | 615.1 | 615.1 | 615.1 |
| 40° | 3588.0 | 2530.0 | 822.2 | 643.8 | 617.1 | 602.8 | 590.5 | 586.4 | 586.4 | 588.4 | 590.5 |
| 42.5° | 3877.1 | 2577.2 | 750.4 | 617.1 | 586.4 | 570.0 | 557.7 | 559.7 | 565.9 | 572.0 | 567.9 |
| 45° | 4295.3 | 2720.7 | 717.6 | 596.6 | 567.9 | 545.4 | 537.2 | 535.1 | 541.3 | 551.5 | 559.7 |
| 47.5° | 4842.7 | 2944.2 | 705.3 | 578.2 | 555.6 | 524.9 | 514.6 | 520.8 | 529.0 | 543.3 | 537.2 |
| 50° | 5738.7 | 3446.5 | 715.5 | 561.8 | 537.2 | 514.6 | 502.3 | 496.2 | 502.3 | 512.6 | 516.7 |
| 52.5° | 6909.4 | 4358.9 | 754.5 | 553.6 | 524.9 | 506.4 | 485.9 | 475.7 | 481.8 | 490.0 | 490.0 |
| 55° | 8309.7 | 5605.4 | 863.2 | 543.3 | 504.4 | 494.1 | 471.6 | 451.1 | 455.2 | 455.2 | 453.1 |
| 57.5° | 9544.0 | 6546.5 | 992.3 | 529.0 | 492.1 | 477.7 | 449.0 | 424.4 | 420.3 | 422.4 | 424.4 |
| 60° | 10097.6 | 6796.6 | 1053.8 | 524.9 | 492.1 | 457.2 | 418.3 | 393.7 | 387.5 | 383.4 | 383.4 |
| 62.5° | 10001.2 | 6364.0 | 928.8 | 506.4 | 504.4 | 440.8 | 389.6 | 362.9 | 354.7 | 346.5 | 348.5 |
| 65° | 9418.9 | 5746.9 | 731.9 | 481.8 | 506.4 | 430.6 | 360.8 | 334.2 | 319.8 | 309.6 | 307.5 |
| 67.5° | 8354.8 | 4906.3 | 580.2 | 463.4 | 485.9 | 412.1 | 336.2 | 305.5 | 293.2 | 282.9 | 278.8 |
| 70° | 6536.3 | 3846.3 | 504.4 | 438.8 | 436.7 | 367.0 | 307.5 | 280.9 | 262.4 | 250.1 | 250.1 |
| 72.5° | 4237.9 | 2431.6 | 432.6 | 389.6 | 377.2 | 307.5 | 266.5 | 250.1 | 235.8 | 225.5 | 225.5 |
| 75° | 1919.1 | 1129.7 | 348.5 | 326.0 | 307.5 | 246.0 | 225.5 | 217.3 | 205.0 | 194.8 | 194.8 |
| 77.5° | 688.9 | 481.8 | 260.4 | 256.3 | 229.6 | 190.7 | 182.5 | 176.3 | 168.1 | 157.9 | 157.9 |
| 80° | 385.5 | 305.5 | 194.8 | 186.6 | 159.9 | 141.5 | 131.2 | 131.2 | 127.1 | 121.0 | 118.9 |
| 82.5° | 244.0 | 198.9 | 143.5 | 125.1 | 104.6 | 94.3 | 90.2 | 88.2 | 86.1 | 77.9 | 75.9 |
| 85° | 153.8 | 135.3 | 94.3 | 73.8 | 61.5 | 47.2 | 45.1 | 43.1 | 39.0 | 34.9 | 34.9 |
| 87.5° | 69.7 | 77.9 | 36.9 | 22.6 | 16.4 | 10.3 | 6.2 | 2.1 | 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)