

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: P480984

Luminaire Tested: **IFLD-M-SA4A-760-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480984
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-760-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

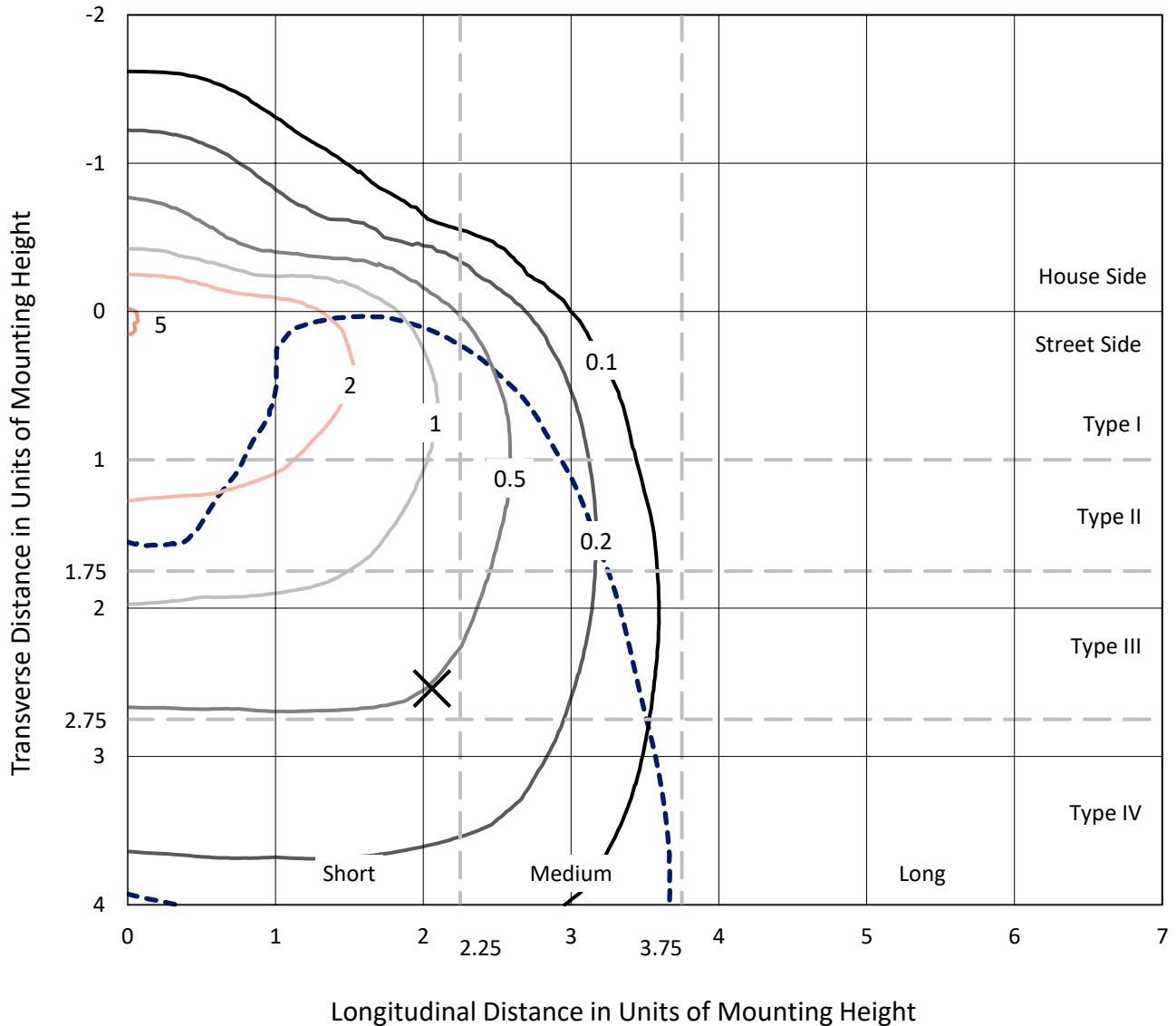
Lumens per Lamp: N/A
Luminaire Lumens: 18272.2 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

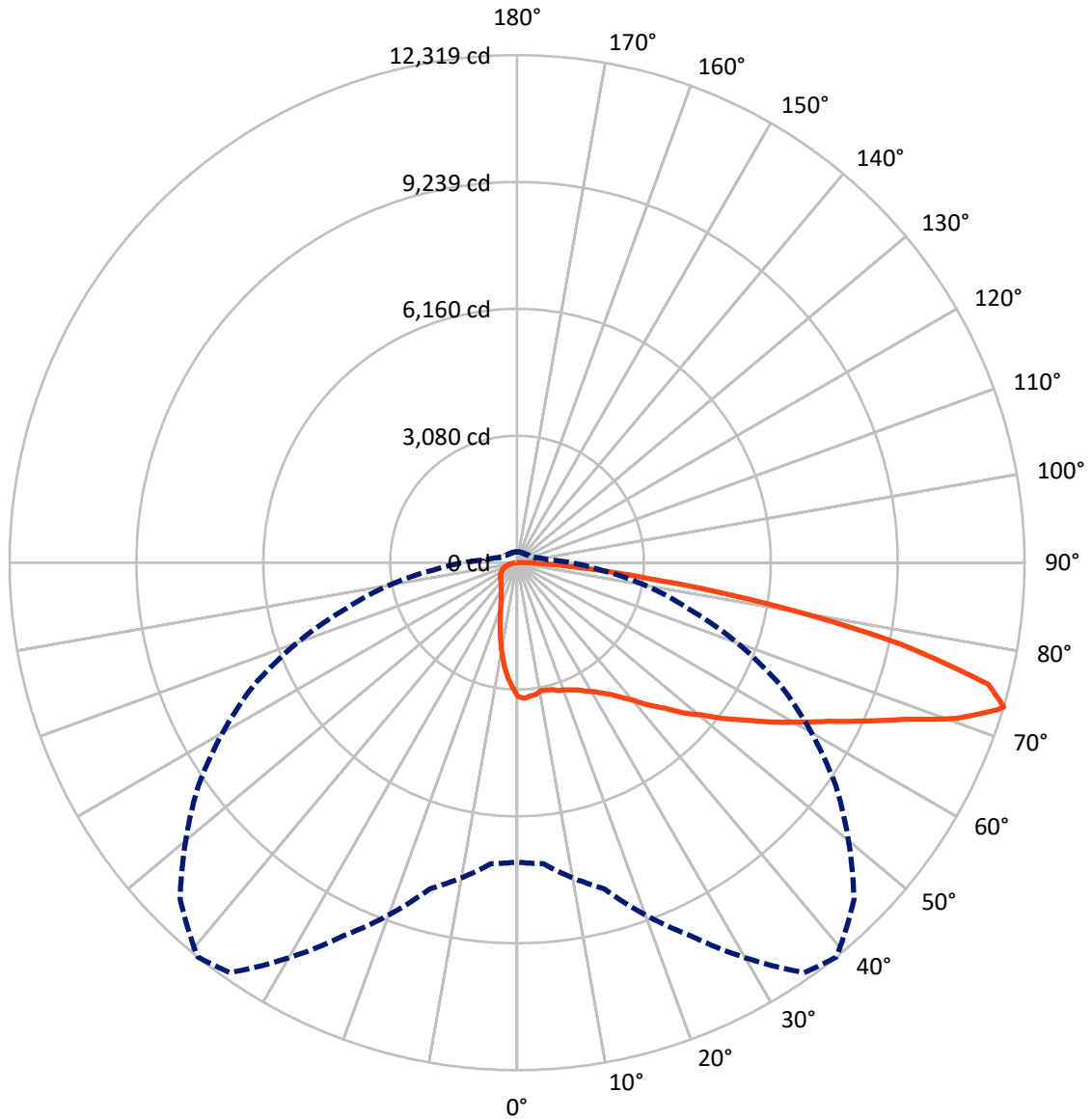
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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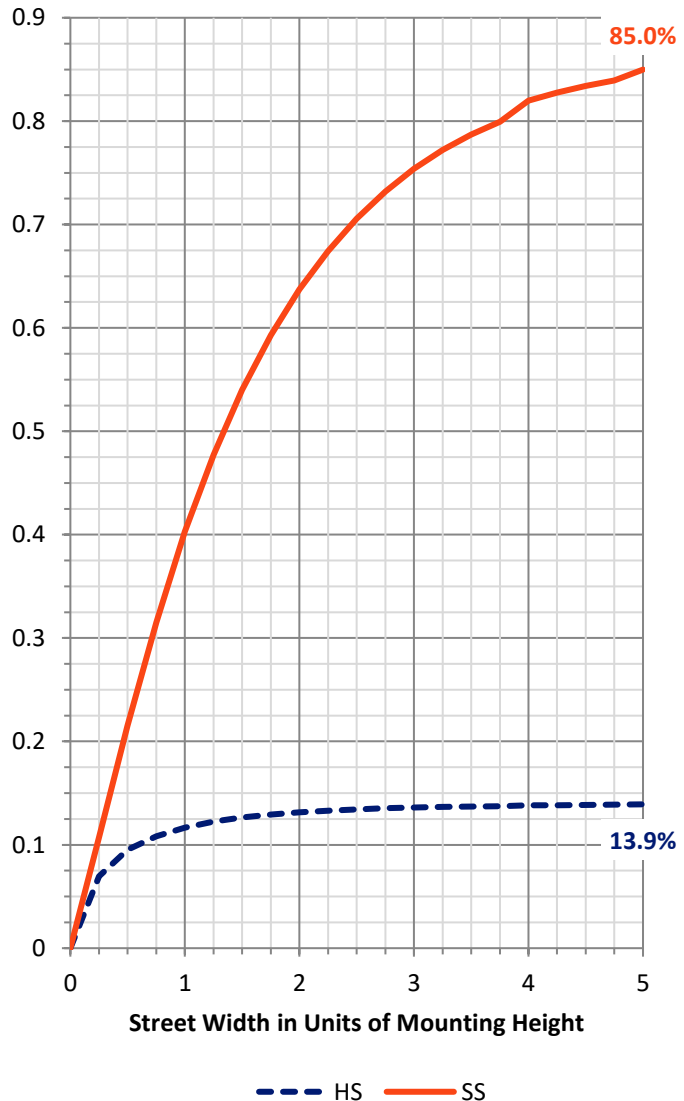
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2568.5 | 0.0 | 2568.5 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 15703.6 | 0.0 | 15703.6 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 18272.2 | 0.0 | 18272.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 282.3 | 1.5 |
| 10°-20° | 717.8 | 3.9 |
| 20°-30° | 1096.8 | 6.0 |
| 30°-40° | 1599.2 | 8.8 |
| 40°-50° | 2416.6 | 13.2 |
| 50°-60° | 3499.3 | 19.2 |
| 60°-70° | 4446.1 | 24.3 |
| 70°-80° | 3604.2 | 19.7 |
| 80°-90° | 609.8 | 3.3 |
| 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° | 18272.2 | 100.0 |
| 0°-180° | 18272.2 | 100.0 |

Coefficient of Utilization



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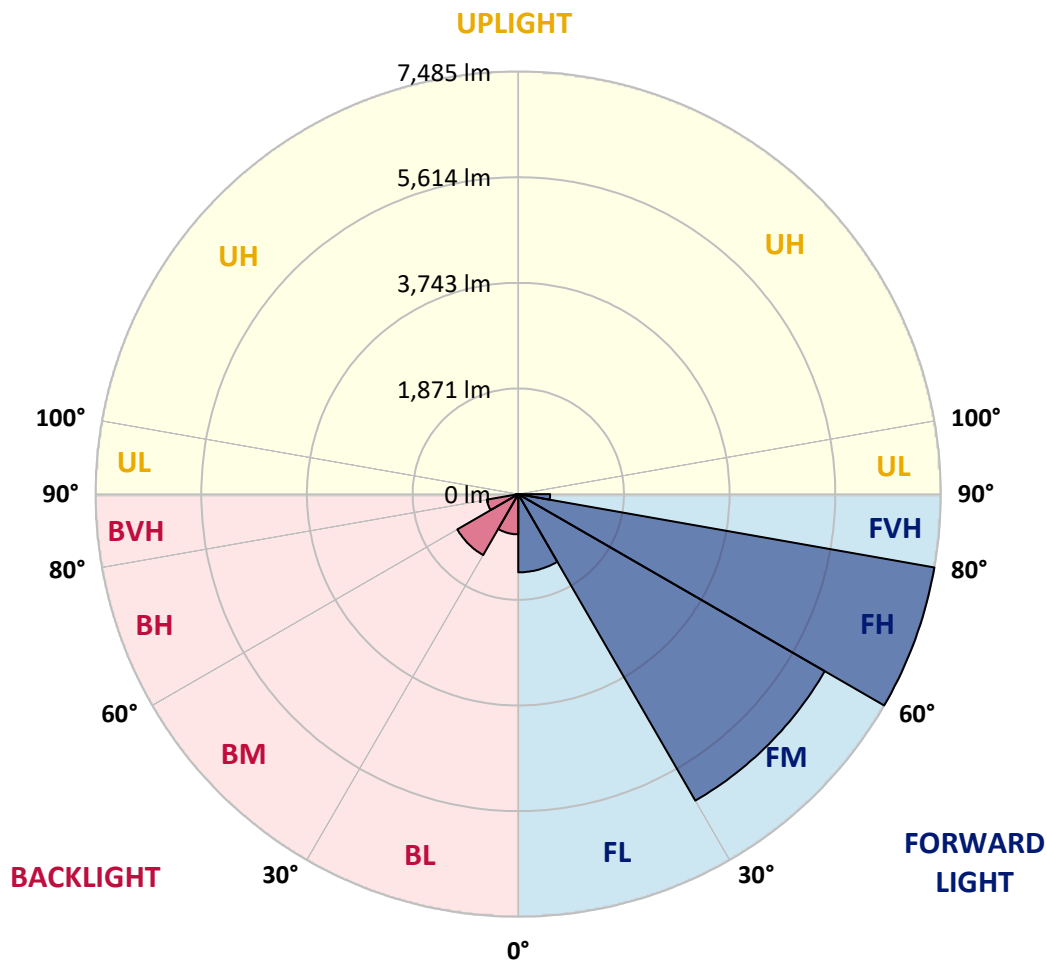
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1384.6 | 7.6 | | | |
| FM (30°-60°) | 6268.5 | 34.3 | | | |
| FH (60°-80°) | 7485.4 | 41.0 | | | G3/7500 |
| FVH (80°-90°) | 565.1 | 3.1 | | | G4/750 |
| BL (0°-30°) | 712.3 | 3.9 | B2/1000 | | |
| BM (30°-60°) | 1246.6 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 564.9 | 3.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 44.7 | 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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 3252.6 | 3252.6 | 3252.6 | 3252.6 | 3252.6 | 3252.6 | 3252.6 | 3252.6 | 3252.6 | 3252.6 | 3252.6 |
| 2.5° | 3330.2 | 3295.5 | 3301.6 | 3289.4 | 3301.6 | 3297.5 | 3291.4 | 3260.7 | 3291.4 | 3260.7 | 3252.6 |
| 5° | 3285.3 | 3285.3 | 3305.7 | 3275.0 | 3279.1 | 3258.7 | 3279.1 | 3256.6 | 3236.2 | 3185.1 | 3170.8 |
| 7.5° | 3271.0 | 3268.9 | 3271.0 | 3228.0 | 3248.5 | 3236.2 | 3215.8 | 3191.2 | 3150.3 | 3117.6 | 3070.6 |
| 10° | 3172.8 | 3193.3 | 3170.8 | 3183.1 | 3199.4 | 3162.6 | 3160.6 | 3154.4 | 3136.0 | 3093.1 | 3064.5 |
| 12.5° | 3119.7 | 3154.4 | 3166.7 | 3156.5 | 3170.8 | 3174.9 | 3162.6 | 3154.4 | 3131.9 | 3103.3 | 3021.5 |
| 15° | 3142.2 | 3101.3 | 3136.0 | 3203.5 | 3189.2 | 3199.4 | 3201.5 | 3193.3 | 3183.1 | 3129.9 | 3076.7 |
| 17.5° | 3148.3 | 3123.8 | 3197.4 | 3211.7 | 3230.1 | 3266.9 | 3242.3 | 3240.3 | 3201.5 | 3164.7 | 3087.0 |
| 20° | 3162.6 | 3152.4 | 3211.7 | 3287.3 | 3289.4 | 3295.5 | 3307.8 | 3277.1 | 3256.6 | 3193.3 | 3074.7 |
| 22.5° | 3215.8 | 3250.5 | 3305.7 | 3338.4 | 3356.8 | 3360.9 | 3360.9 | 3299.6 | 3277.1 | 3226.0 | 3131.9 |
| 25° | 3375.2 | 3338.4 | 3416.1 | 3454.9 | 3428.4 | 3422.2 | 3407.9 | 3352.7 | 3328.2 | 3283.2 | 3158.5 |
| 27.5° | 3491.7 | 3489.7 | 3534.7 | 3587.8 | 3516.3 | 3530.6 | 3479.5 | 3463.1 | 3407.9 | 3383.4 | 3205.5 |
| 30° | 3651.2 | 3696.2 | 3694.1 | 3710.5 | 3616.5 | 3632.8 | 3567.4 | 3536.7 | 3506.1 | 3520.4 | 3344.6 |
| 32.5° | 3855.6 | 3839.3 | 3865.9 | 3853.6 | 3759.6 | 3773.9 | 3696.2 | 3649.2 | 3659.4 | 3702.3 | 3534.7 |
| 35° | 3986.5 | 3970.1 | 3980.3 | 3980.3 | 3951.7 | 3935.4 | 3902.7 | 3841.3 | 3890.4 | 3970.1 | 3747.3 |
| 37.5° | 4127.5 | 4148.0 | 4207.3 | 4195.0 | 4158.2 | 4158.2 | 4154.1 | 4111.2 | 4174.6 | 4370.8 | 4086.7 |
| 40° | 4252.2 | 4307.4 | 4344.2 | 4368.8 | 4411.7 | 4411.7 | 4446.5 | 4421.9 | 4536.4 | 4851.2 | 4501.7 |
| 42.5° | 4383.1 | 4385.1 | 4585.5 | 4603.9 | 4700.0 | 4740.8 | 4767.4 | 4787.9 | 5002.5 | 5354.1 | 4945.3 |
| 45° | 4550.7 | 4560.9 | 4736.8 | 4877.8 | 5027.1 | 5041.4 | 5141.5 | 5209.0 | 5472.7 | 5904.1 | 5427.7 |
| 47.5° | 4771.5 | 4759.2 | 4947.3 | 5172.2 | 5358.2 | 5456.4 | 5577.0 | 5650.6 | 5975.6 | 6501.0 | 5955.2 |
| 50° | 5061.8 | 5025.0 | 5133.4 | 5487.0 | 5705.8 | 5814.1 | 6028.8 | 6151.4 | 6531.7 | 7071.4 | 6317.0 |
| 52.5° | 5415.5 | 5354.1 | 5440.0 | 5826.4 | 6071.7 | 6290.5 | 6494.9 | 6631.9 | 7028.5 | 7513.0 | 6584.8 |
| 55° | 5789.6 | 5662.8 | 5687.4 | 6186.2 | 6539.9 | 6746.4 | 7026.4 | 7169.5 | 7574.3 | 7909.6 | 6852.7 |
| 57.5° | 6159.6 | 6079.9 | 6030.8 | 6531.7 | 7098.0 | 7296.3 | 7553.9 | 7739.9 | 8083.4 | 8261.2 | 7079.6 |
| 60° | 6470.4 | 6449.9 | 6370.2 | 7067.3 | 7688.8 | 7858.5 | 8128.3 | 8242.8 | 8502.4 | 8586.3 | 7083.7 |
| 62.5° | 6725.9 | 6656.4 | 6783.1 | 7498.7 | 8289.8 | 8482.0 | 8778.4 | 8788.7 | 8972.6 | 8788.7 | 6875.1 |
| 65° | 6926.3 | 6930.3 | 7132.7 | 8020.0 | 8984.9 | 9269.1 | 9508.3 | 9481.7 | 9363.1 | 8668.0 | 6382.5 |
| 67.5° | 7108.2 | 7185.9 | 7482.3 | 8592.4 | 9878.3 | 10146.1 | 10411.9 | 10060.2 | 9469.4 | 8103.8 | 5419.6 |
| 70° | 7251.3 | 7329.0 | 7954.6 | 9289.5 | 10931.1 | 11323.6 | 11382.9 | 10289.2 | 8980.8 | 6864.9 | 4088.7 |
| 72.5° | 7235.0 | 7376.0 | 8222.4 | 9845.6 | 11865.4 | 12204.8 | 11726.4 | 9645.2 | 7482.3 | 4785.8 | 2385.8 |
| 73° | 7269.7 | 7339.2 | 8199.9 | 10001.0 | 12149.6 | 12319.2 | 11566.9 | 9442.8 | 7057.1 | 4293.1 | 2017.8 |
| 75° | 6599.2 | 6834.3 | 7793.1 | 9747.5 | 11845.0 | 11814.3 | 10651.1 | 7868.7 | 5016.8 | 2254.9 | 977.2 |
| 77.5° | 4881.9 | 5031.1 | 6141.2 | 8015.9 | 9722.9 | 9526.7 | 8034.3 | 5029.1 | 2381.7 | 836.1 | 527.4 |
| 80° | 2385.8 | 2502.3 | 3254.6 | 4628.4 | 6357.9 | 6374.3 | 4986.2 | 2616.8 | 1020.1 | 472.2 | 359.8 |
| 82.5° | 1191.9 | 1261.4 | 1563.9 | 2034.1 | 3127.9 | 3277.1 | 2528.9 | 1488.3 | 631.7 | 267.8 | 204.4 |
| 85° | 778.9 | 828.0 | 962.9 | 995.6 | 1326.8 | 1400.4 | 1177.5 | 1161.2 | 410.9 | 145.1 | 165.6 |
| 87.5° | 517.2 | 525.4 | 590.8 | 502.9 | 531.5 | 511.1 | 568.3 | 731.9 | 120.6 | 61.3 | 45.0 |
| 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° | 3252.6 | 3252.6 | 3252.6 | 3252.6 | 3252.6 | 3252.6 | 3252.6 | 3252.6 | 3252.6 | 3252.6 | 3252.6 |
| 2.5° | 3242.3 | 3213.7 | 3183.1 | 3140.1 | 3109.5 | 3062.4 | 3019.5 | 3001.1 | 2997.0 | 2999.1 | 2978.6 |
| 5° | 3158.5 | 3117.6 | 3056.3 | 2968.4 | 2917.3 | 2839.6 | 2774.2 | 2739.4 | 2702.6 | 2708.8 | 2692.4 |
| 7.5° | 3042.0 | 2997.0 | 2903.0 | 2800.8 | 2674.0 | 2563.6 | 2502.3 | 2416.4 | 2367.4 | 2330.6 | 2351.0 |
| 10° | 3005.2 | 2927.5 | 2786.4 | 2645.4 | 2449.1 | 2304.0 | 2162.9 | 2064.8 | 1997.3 | 1931.9 | 1960.5 |
| 12.5° | 2986.8 | 2909.1 | 2712.9 | 2504.3 | 2250.8 | 2030.0 | 1831.7 | 1711.1 | 1615.0 | 1557.8 | 1580.3 |
| 15° | 2970.4 | 2874.4 | 2643.3 | 2349.0 | 2064.8 | 1774.5 | 1551.7 | 1392.2 | 1300.2 | 1245.0 | 1251.1 |
| 17.5° | 2992.9 | 2856.0 | 2541.1 | 2197.7 | 1860.4 | 1549.6 | 1302.3 | 1136.7 | 1042.6 | 1007.9 | 999.7 |
| 20° | 2970.4 | 2835.5 | 2441.0 | 2046.4 | 1655.9 | 1335.0 | 1097.8 | 960.8 | 895.4 | 866.8 | 860.7 |
| 22.5° | 2978.6 | 2786.4 | 2336.7 | 1878.8 | 1465.8 | 1155.1 | 960.8 | 856.6 | 805.5 | 791.2 | 795.3 |
| 25° | 3017.5 | 2757.8 | 2232.4 | 1694.8 | 1277.7 | 1022.2 | 872.9 | 793.2 | 756.4 | 742.1 | 746.2 |
| 27.5° | 3046.1 | 2782.4 | 2138.4 | 1521.0 | 1118.3 | 903.6 | 799.3 | 746.2 | 721.7 | 711.4 | 709.4 |
| 30° | 3117.6 | 2796.7 | 2046.4 | 1365.6 | 987.4 | 825.9 | 748.2 | 705.3 | 688.9 | 682.8 | 680.8 |
| 32.5° | 3223.9 | 2823.2 | 1940.1 | 1222.5 | 891.3 | 752.3 | 707.3 | 670.5 | 666.5 | 660.3 | 662.4 |
| 35° | 3397.7 | 2915.2 | 1821.5 | 1099.9 | 799.3 | 703.3 | 664.4 | 639.9 | 639.9 | 639.9 | 646.0 |
| 37.5° | 3647.1 | 3044.0 | 1715.2 | 983.3 | 740.1 | 660.3 | 627.6 | 619.4 | 615.3 | 621.5 | 625.6 |
| 40° | 3968.1 | 3199.4 | 1629.3 | 891.3 | 688.9 | 631.7 | 603.1 | 599.0 | 596.9 | 594.9 | 599.0 |
| 42.5° | 4319.7 | 3397.7 | 1555.7 | 819.8 | 652.1 | 601.0 | 580.6 | 576.5 | 568.3 | 572.4 | 578.6 |
| 45° | 4669.3 | 3643.0 | 1490.3 | 762.5 | 627.6 | 584.7 | 556.1 | 554.0 | 549.9 | 547.9 | 558.1 |
| 47.5° | 5057.7 | 3884.3 | 1469.9 | 727.8 | 609.2 | 560.2 | 539.7 | 537.7 | 525.4 | 523.4 | 531.5 |
| 50° | 5360.3 | 4062.1 | 1492.4 | 711.4 | 582.6 | 541.8 | 527.4 | 517.2 | 507.0 | 496.8 | 496.8 |
| 52.5° | 5568.8 | 4184.8 | 1508.7 | 699.2 | 568.3 | 517.2 | 498.8 | 494.7 | 484.5 | 474.3 | 470.2 |
| 55° | 5756.9 | 4258.4 | 1512.8 | 701.2 | 554.0 | 488.6 | 476.3 | 474.3 | 468.2 | 451.8 | 447.7 |
| 57.5° | 5820.3 | 4227.7 | 1431.0 | 682.8 | 545.8 | 470.2 | 453.8 | 457.9 | 449.8 | 435.4 | 433.4 |
| 60° | 5814.1 | 4015.1 | 1245.0 | 658.3 | 527.4 | 449.8 | 429.3 | 441.6 | 441.6 | 425.2 | 423.2 |
| 62.5° | 5460.5 | 3524.5 | 1018.1 | 611.3 | 507.0 | 429.3 | 406.8 | 425.2 | 431.4 | 421.1 | 419.1 |
| 65° | 4726.5 | 2870.3 | 850.4 | 564.2 | 476.3 | 406.8 | 384.3 | 404.8 | 415.0 | 410.9 | 408.9 |
| 67.5° | 3910.8 | 2195.6 | 707.3 | 502.9 | 437.5 | 376.2 | 357.8 | 372.1 | 378.2 | 380.2 | 382.3 |
| 70° | 2764.0 | 1461.7 | 590.8 | 435.4 | 384.3 | 343.5 | 323.0 | 325.1 | 323.0 | 329.1 | 329.1 |
| 72.5° | 1502.6 | 842.3 | 480.4 | 370.0 | 331.2 | 298.5 | 284.2 | 273.9 | 273.9 | 271.9 | 271.9 |
| 73° | 1285.9 | 756.4 | 457.9 | 359.8 | 316.9 | 290.3 | 273.9 | 265.8 | 265.8 | 263.7 | 261.7 |
| 75° | 721.7 | 554.0 | 392.5 | 308.7 | 273.9 | 253.5 | 241.2 | 229.0 | 226.9 | 226.9 | 226.9 |
| 77.5° | 474.3 | 431.4 | 312.8 | 247.4 | 220.8 | 202.4 | 198.3 | 186.0 | 186.0 | 186.0 | 184.0 |
| 80° | 355.7 | 339.4 | 241.2 | 188.1 | 169.7 | 155.4 | 151.3 | 143.1 | 141.1 | 132.9 | 134.9 |
| 82.5° | 237.1 | 267.8 | 175.8 | 132.9 | 114.5 | 106.3 | 106.3 | 104.3 | 98.1 | 87.9 | 87.9 |
| 85° | 188.1 | 218.7 | 126.7 | 81.8 | 67.5 | 57.2 | 59.3 | 57.2 | 55.2 | 45.0 | 42.9 |
| 87.5° | 34.8 | 87.9 | 36.8 | 22.5 | 16.4 | 10.2 | 10.2 | 6.1 | 4.1 | 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)