

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: P400285

Luminaire Tested: **ARCH-L-PA3-260-730-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-260-730-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22844 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

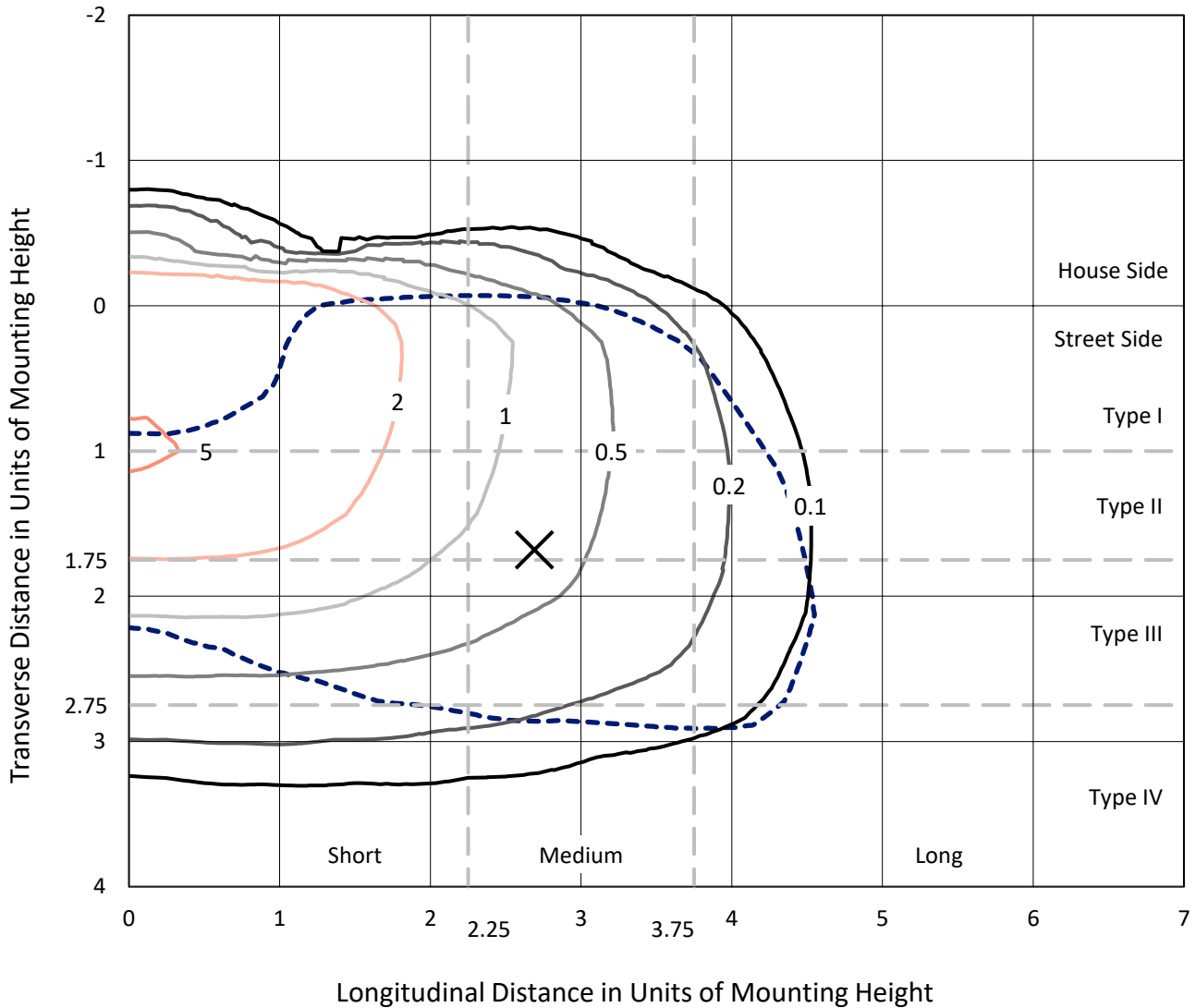
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

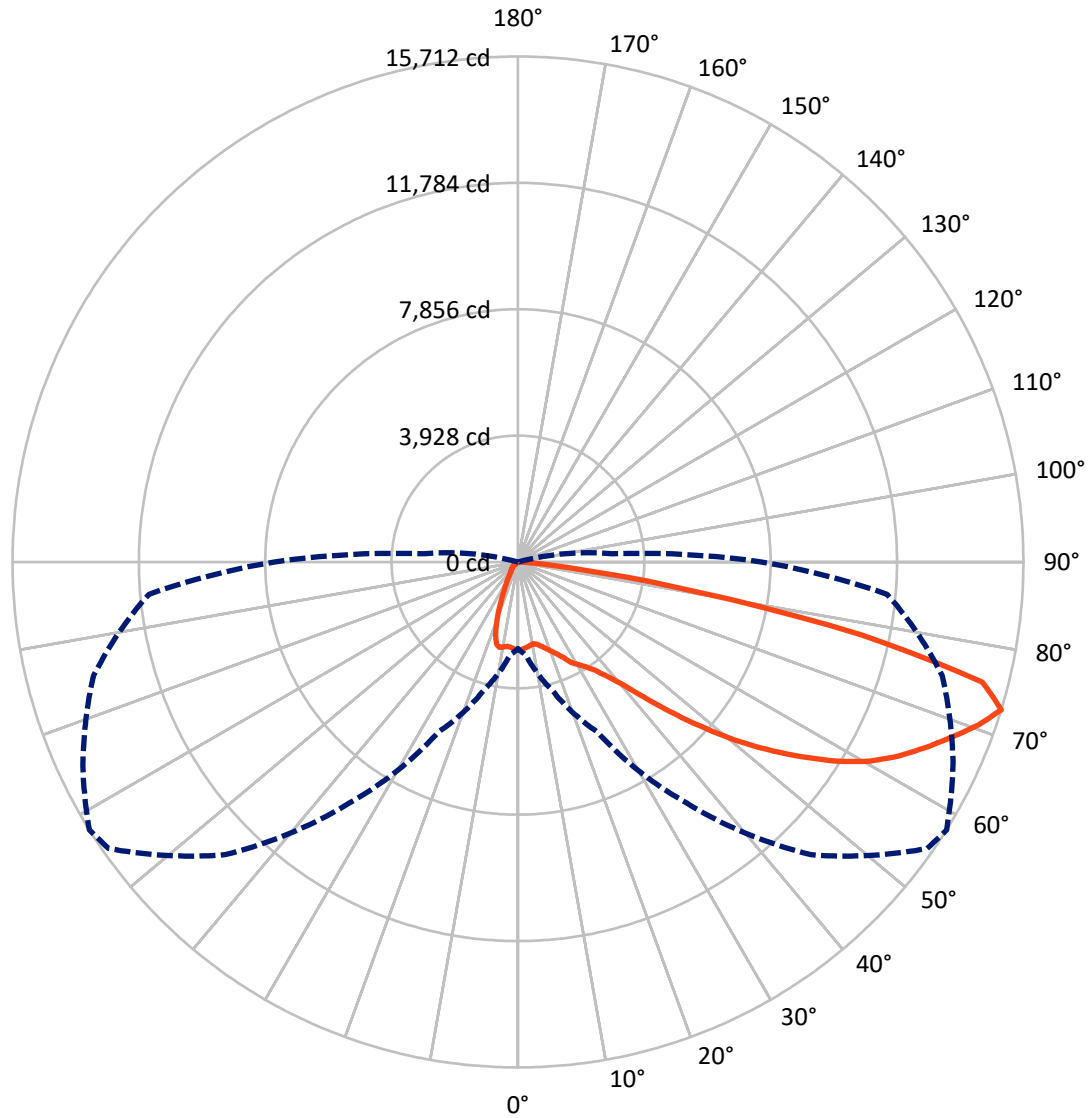
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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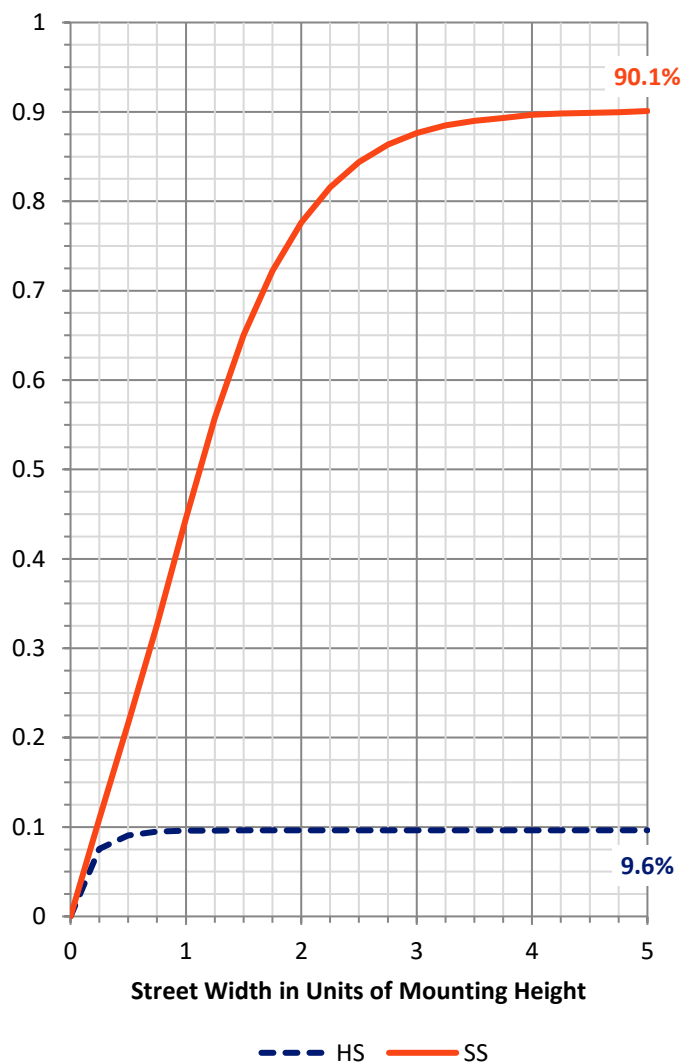
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2221.4 | 0.0 | 2221.4 |
| | % Fixture | 9.7 | 0.0 | 9.7 |
| Street Side | Lumens | 20622.6 | 0.0 | 20622.6 |
| | % Fixture | 90.3 | 0.0 | 90.3 |
| Total | Lumens | 22844.0 | 0.0 | 22844.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 251.6 | 1.1 |
| 10°-20° | 655.2 | 2.9 |
| 20°-30° | 1029.3 | 4.5 |
| 30°-40° | 1775.1 | 7.8 |
| 40°-50° | 3377.3 | 14.8 |
| 50°-60° | 5348.6 | 23.4 |
| 60°-70° | 6241.3 | 27.3 |
| 70°-80° | 3908.9 | 17.1 |
| 80°-90° | 256.6 | 1.1 |
| 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° | 22844.0 | 100.0 |
| 0°-180° | 22844.0 | 100.0 |

Coefficient of Utilization



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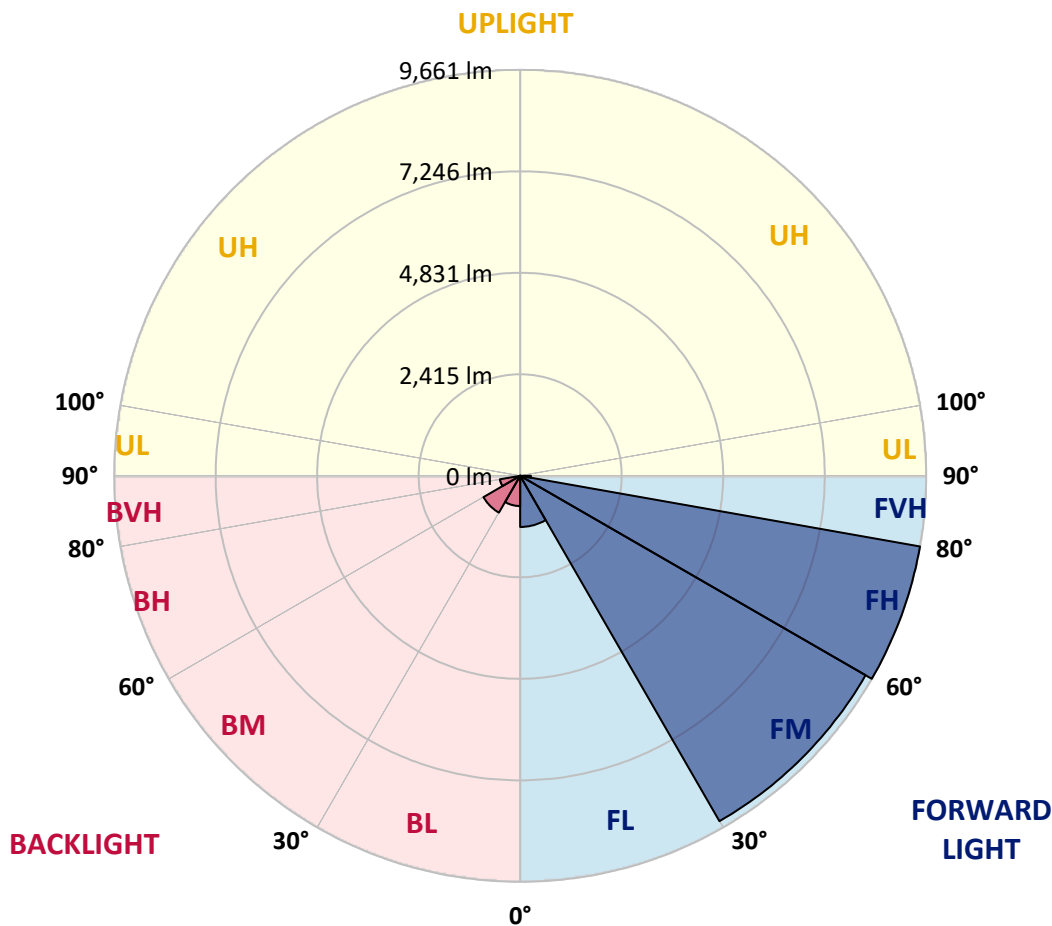
CATALOG NUMBER: ARCH-L-PA3-260-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1216.8 | 5.3 | | | |
| FM (30°-60°) | 9490.4 | 41.5 | | | |
| FH (60°-80°) | 9661.4 | 42.3 | | | G4/12000 |
| FVH (80°-90°) | 254.1 | 1.1 | | | G3/500 |
| BL (0°-30°) | 719.4 | 3.1 | B2/1000 | | |
| BM (30°-60°) | 1010.8 | 4.4 | B2/2500 | | |
| BH (60°-80°) | 488.8 | 2.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.5 | 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 IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2741.1 | 2741.1 | 2741.1 | 2741.1 | 2741.1 | 2741.1 | 2741.1 | 2741.1 | 2741.1 | 2741.1 | 2741.1 |
| 2.5° | 2728.9 | 2716.6 | 2712.5 | 2708.5 | 2712.5 | 2716.6 | 2704.4 | 2716.6 | 2708.5 | 2712.5 | 2720.7 |
| 5° | 2630.8 | 2618.6 | 2614.5 | 2618.6 | 2630.8 | 2651.3 | 2659.4 | 2671.7 | 2671.7 | 2683.9 | 2688.0 |
| 7.5° | 2520.5 | 2512.4 | 2508.3 | 2516.5 | 2541.0 | 2585.9 | 2610.4 | 2626.8 | 2643.1 | 2667.6 | 2692.1 |
| 10° | 2459.3 | 2455.2 | 2451.1 | 2463.4 | 2487.9 | 2528.7 | 2561.4 | 2585.9 | 2647.2 | 2716.6 | 2761.6 |
| 12.5° | 2418.4 | 2418.4 | 2426.6 | 2451.1 | 2483.8 | 2516.5 | 2594.1 | 2626.8 | 2720.7 | 2826.9 | 2888.2 |
| 15° | 2385.7 | 2385.7 | 2398.0 | 2442.9 | 2487.9 | 2565.5 | 2679.9 | 2716.6 | 2826.9 | 2957.7 | 3039.4 |
| 17.5° | 2361.2 | 2369.4 | 2377.6 | 2422.5 | 2508.3 | 2639.0 | 2773.8 | 2826.9 | 2961.7 | 3104.7 | 3194.6 |
| 20° | 2365.3 | 2373.5 | 2377.6 | 2422.5 | 2545.1 | 2724.8 | 2896.4 | 2957.7 | 3112.9 | 3264.0 | 3353.9 |
| 22.5° | 2389.8 | 2402.1 | 2406.2 | 2467.4 | 2610.4 | 2814.7 | 3035.3 | 3104.7 | 3272.2 | 3431.5 | 3501.0 |
| 25° | 2491.9 | 2500.1 | 2475.6 | 2528.7 | 2704.4 | 2953.6 | 3215.0 | 3288.6 | 3456.0 | 3603.1 | 3660.3 |
| 27.5° | 2839.2 | 2847.4 | 2712.5 | 2651.3 | 2777.9 | 3068.0 | 3435.6 | 3537.7 | 3746.1 | 3844.1 | 3852.3 |
| 30° | 3590.9 | 3599.0 | 3333.5 | 3043.4 | 2953.6 | 3166.0 | 3558.2 | 3701.2 | 3970.8 | 4081.1 | 4032.1 |
| 32.5° | 4559.0 | 4550.9 | 4187.3 | 3758.3 | 3370.3 | 3337.6 | 3733.8 | 3885.0 | 4179.1 | 4285.3 | 4248.6 |
| 35° | 5531.3 | 5543.6 | 5233.1 | 4587.6 | 4032.1 | 3660.3 | 3958.5 | 4134.2 | 4489.6 | 4640.7 | 4575.4 |
| 37.5° | 6197.2 | 6278.9 | 6144.1 | 5445.5 | 4845.0 | 4256.7 | 4322.1 | 4510.0 | 4955.3 | 5159.6 | 5020.7 |
| 40° | 7136.8 | 7116.3 | 6789.5 | 6274.8 | 5743.7 | 5139.1 | 4910.4 | 5000.2 | 5510.9 | 5784.6 | 5568.1 |
| 42.5° | 8399.1 | 8358.2 | 7802.7 | 7300.2 | 6707.8 | 6213.5 | 5747.8 | 5731.5 | 6148.2 | 6466.8 | 6152.2 |
| 45° | 9542.9 | 9481.7 | 9101.7 | 8615.6 | 7966.1 | 7398.2 | 6769.1 | 6626.1 | 6916.2 | 7185.8 | 6818.1 |
| 47.5° | 10453.9 | 10351.8 | 10082.2 | 9824.8 | 9665.5 | 8783.1 | 7839.4 | 7622.9 | 7770.0 | 7970.1 | 7451.3 |
| 50° | 11532.4 | 11250.5 | 10858.3 | 10703.1 | 11034.0 | 10351.8 | 8868.9 | 8660.5 | 8652.4 | 8766.7 | 8105.0 |
| 52.5° | 12022.6 | 11512.0 | 11291.4 | 11422.1 | 12006.3 | 11810.2 | 9980.0 | 9681.8 | 9563.4 | 9575.6 | 8713.6 |
| 55° | 11430.3 | 11373.1 | 11491.5 | 11900.1 | 12664.0 | 12549.6 | 11046.3 | 10678.6 | 10502.9 | 10282.3 | 9297.8 |
| 57.5° | 10756.2 | 10931.9 | 11401.7 | 12181.9 | 13497.4 | 13321.7 | 12096.2 | 11679.5 | 11356.7 | 10850.2 | 9947.4 |
| 60° | 10135.3 | 10315.0 | 11091.2 | 12247.3 | 13954.9 | 14065.2 | 12970.4 | 12574.1 | 12096.2 | 11430.3 | 10662.3 |
| 62.5° | 9191.6 | 9330.5 | 10421.2 | 12153.3 | 13754.7 | 14498.2 | 13579.1 | 13280.8 | 12835.6 | 11981.8 | 11483.4 |
| 65° | 8129.5 | 8219.3 | 9297.8 | 11401.7 | 13362.6 | 14449.2 | 14081.5 | 13914.0 | 13481.0 | 12557.8 | 12296.3 |
| 67.5° | 6965.2 | 7071.4 | 7970.1 | 10049.5 | 12594.5 | 14220.4 | 14555.4 | 14539.1 | 14044.8 | 13195.1 | 12884.6 |
| 70° | 5625.3 | 5633.4 | 6376.9 | 8333.7 | 11254.6 | 13762.9 | 15143.7 | 15180.4 | 14584.0 | 13673.0 | 12909.1 |
| 72.5° | 2692.1 | 2912.7 | 4134.2 | 5817.3 | 9146.7 | 12864.2 | 15527.7 | 15711.5 | 14923.1 | 13656.7 | 11516.1 |
| 75° | 616.9 | 637.3 | 1205.1 | 2765.7 | 5363.8 | 9873.8 | 14567.7 | 14910.8 | 14097.9 | 11810.2 | 8113.1 |
| 77.5° | 224.7 | 236.9 | 339.1 | 808.9 | 2063.0 | 5102.4 | 10425.3 | 10927.8 | 10421.2 | 7635.2 | 3836.0 |
| 80° | 151.2 | 147.1 | 175.7 | 359.5 | 947.8 | 1446.1 | 5331.1 | 5629.3 | 5139.1 | 2606.3 | 919.2 |
| 82.5° | 77.6 | 81.7 | 122.6 | 200.2 | 637.3 | 502.5 | 1781.1 | 1936.4 | 1593.2 | 522.9 | 171.6 |
| 85° | 36.8 | 36.8 | 69.4 | 126.6 | 269.6 | 175.7 | 396.3 | 478.0 | 428.9 | 228.8 | 57.2 |
| 87.5° | 36.8 | 36.8 | 65.4 | 81.7 | 138.9 | 73.5 | 98.0 | 122.6 | 114.4 | 122.6 | 20.4 |
| 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° | 2741.1 | 2741.1 | 2741.1 | 2741.1 | 2741.1 | 2741.1 | 2741.1 | 2741.1 | 2741.1 | 2741.1 | 2741.1 |
| 2.5° | 2720.7 | 2716.6 | 2712.5 | 2720.7 | 2716.6 | 2724.8 | 2724.8 | 2733.0 | 2733.0 | 2724.8 | 2720.7 |
| 5° | 2683.9 | 2675.8 | 2667.6 | 2667.6 | 2663.5 | 2671.7 | 2696.2 | 2716.6 | 2720.7 | 2708.5 | 2704.4 |
| 7.5° | 2688.0 | 2688.0 | 2679.9 | 2663.5 | 2634.9 | 2634.9 | 2634.9 | 2659.4 | 2671.7 | 2663.5 | 2659.4 |
| 10° | 2761.6 | 2765.7 | 2745.2 | 2708.5 | 2659.4 | 2614.5 | 2528.7 | 2402.1 | 2283.6 | 2250.9 | 2238.7 |
| 12.5° | 2888.2 | 2892.3 | 2851.4 | 2786.1 | 2683.9 | 2418.4 | 2091.6 | 1789.3 | 1556.4 | 1491.1 | 1478.8 |
| 15° | 3039.4 | 3043.4 | 2969.9 | 2863.7 | 2553.2 | 1936.4 | 1450.2 | 1107.1 | 902.8 | 853.8 | 849.7 |
| 17.5° | 3194.6 | 3186.4 | 3076.1 | 2871.9 | 2165.1 | 1372.6 | 882.4 | 706.7 | 653.6 | 641.4 | 645.5 |
| 20° | 3345.7 | 3321.2 | 3170.1 | 2720.7 | 1666.7 | 898.7 | 645.5 | 604.6 | 592.3 | 584.2 | 584.2 |
| 22.5° | 3484.6 | 3435.6 | 3247.7 | 2422.5 | 1168.4 | 645.5 | 576.0 | 567.8 | 551.5 | 539.2 | 535.2 |
| 25° | 3623.5 | 3554.1 | 3296.7 | 2034.4 | 784.4 | 563.8 | 543.3 | 527.0 | 506.6 | 490.2 | 486.1 |
| 27.5° | 3791.0 | 3693.0 | 3272.2 | 1544.2 | 588.3 | 522.9 | 506.6 | 482.0 | 453.5 | 428.9 | 420.8 |
| 30° | 3950.3 | 3840.0 | 3133.3 | 1066.2 | 502.5 | 482.0 | 457.5 | 420.8 | 384.0 | 355.4 | 347.2 |
| 32.5° | 4150.5 | 4023.9 | 2884.1 | 698.6 | 437.1 | 420.8 | 396.3 | 351.3 | 302.3 | 269.6 | 261.5 |
| 35° | 4436.5 | 4293.5 | 2565.5 | 490.2 | 384.0 | 355.4 | 322.7 | 273.7 | 220.6 | 196.1 | 192.0 |
| 37.5° | 4836.8 | 4644.8 | 2165.1 | 396.3 | 339.1 | 298.2 | 249.2 | 200.2 | 163.4 | 143.0 | 138.9 |
| 40° | 5327.0 | 5032.9 | 1719.9 | 351.3 | 302.3 | 249.2 | 187.9 | 143.0 | 118.5 | 102.1 | 102.1 |
| 42.5° | 5858.1 | 5396.5 | 1266.4 | 322.7 | 265.5 | 204.3 | 138.9 | 102.1 | 85.8 | 77.6 | 73.5 |
| 45° | 6405.5 | 5719.2 | 853.8 | 298.2 | 232.9 | 155.2 | 98.0 | 69.4 | 57.2 | 57.2 | 53.1 |
| 47.5° | 6973.4 | 5935.7 | 551.5 | 269.6 | 196.1 | 114.4 | 65.4 | 49.0 | 40.9 | 40.9 | 40.9 |
| 50° | 7537.1 | 6050.1 | 392.2 | 245.1 | 159.3 | 77.6 | 49.0 | 36.8 | 32.7 | 32.7 | 32.7 |
| 52.5° | 7945.6 | 5976.6 | 314.6 | 212.4 | 122.6 | 57.2 | 36.8 | 28.6 | 24.5 | 24.5 | 24.5 |
| 55° | 8301.0 | 5849.9 | 273.7 | 183.8 | 89.9 | 40.9 | 28.6 | 24.5 | 20.4 | 20.4 | 20.4 |
| 57.5° | 8664.6 | 5686.5 | 245.1 | 155.2 | 65.4 | 28.6 | 20.4 | 16.3 | 16.3 | 16.3 | 16.3 |
| 60° | 8995.5 | 5408.7 | 212.4 | 122.6 | 44.9 | 20.4 | 16.3 | 12.3 | 12.3 | 12.3 | 12.3 |
| 62.5° | 9318.2 | 5171.8 | 183.8 | 94.0 | 32.7 | 16.3 | 8.2 | 8.2 | 4.1 | 4.1 | 4.1 |
| 65° | 9502.1 | 4853.2 | 147.1 | 61.3 | 20.4 | 12.3 | 4.1 | 4.1 | 0.0 | 0.0 | 0.0 |
| 67.5° | 9444.9 | 4473.2 | 102.1 | 36.8 | 12.3 | 8.2 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 9048.6 | 3962.6 | 61.3 | 20.4 | 12.3 | 8.2 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 7578.0 | 2933.1 | 36.8 | 16.3 | 8.2 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 5061.5 | 1348.1 | 20.4 | 12.3 | 4.1 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 2316.3 | 404.4 | 12.3 | 8.2 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 465.7 | 106.2 | 8.2 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 98.0 | 20.4 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 20.4 | 8.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 8.2 | 4.1 | 0.0 | 0.0 | 0.0 | 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)