

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: P400466

Luminaire Tested: **ARCH-L-PA3-280-827-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-280-827-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26330 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

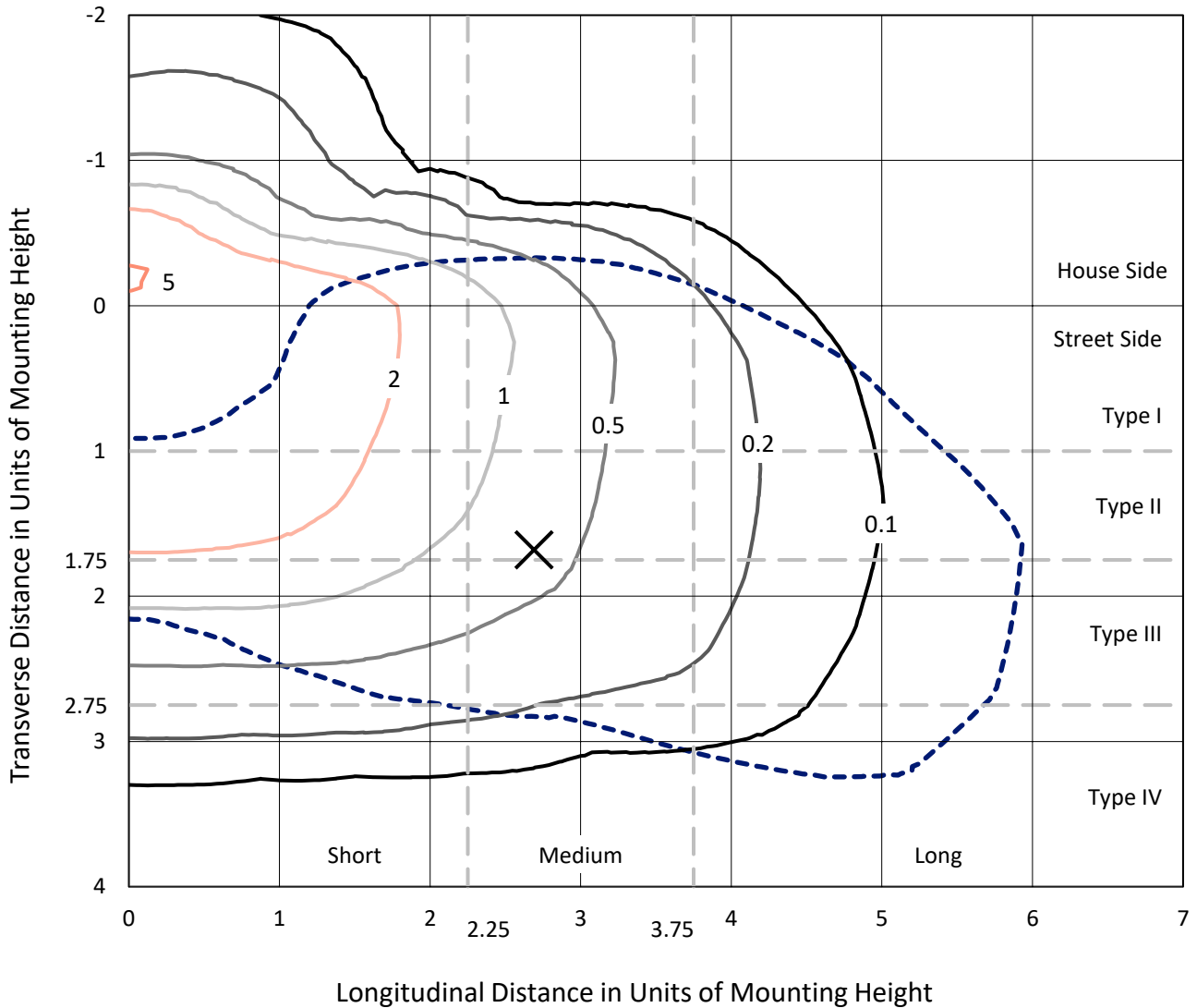
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

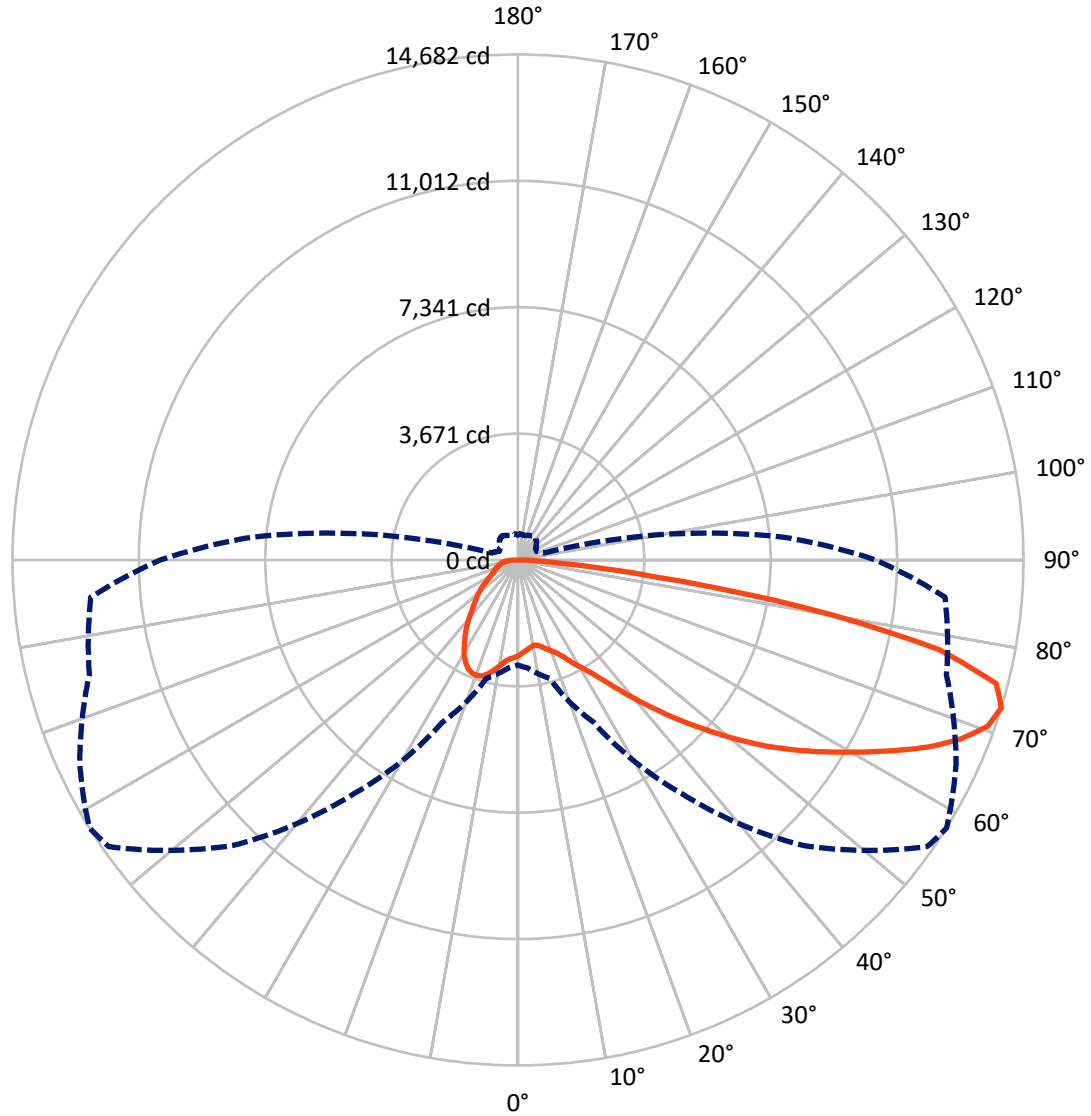
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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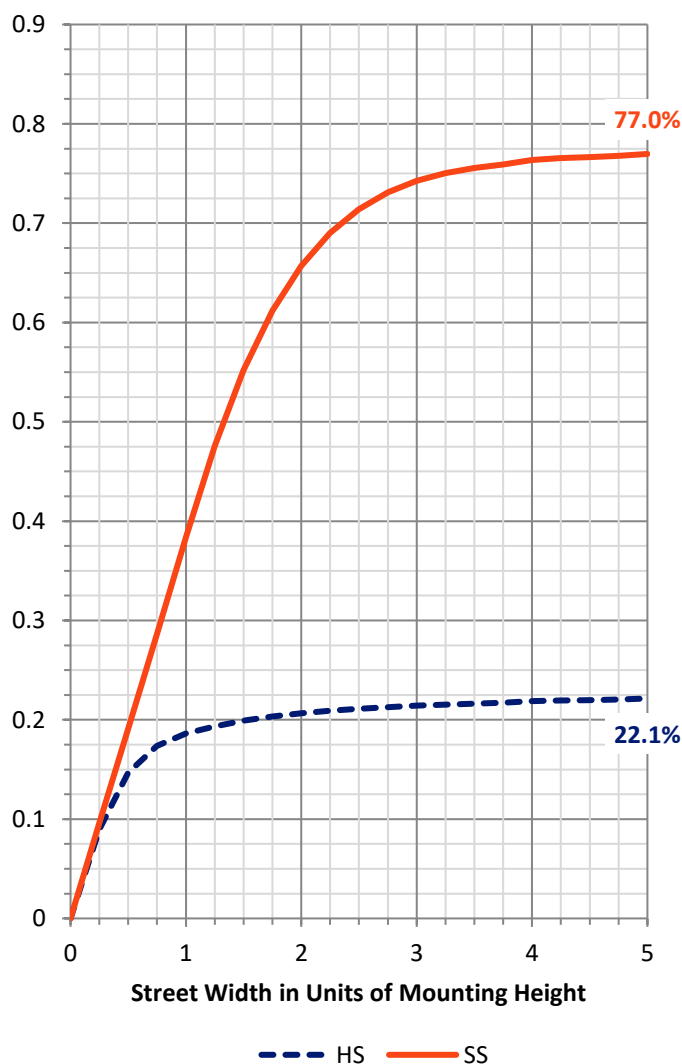
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5971.3 | 0.0 | 5971.3 |
| | % Fixture | 22.7 | 0.0 | 22.7 |
| Street Side | Lumens | 20358.6 | 0.0 | 20358.6 |
| | % Fixture | 77.3 | 0.0 | 77.3 |
| Total | Lumens | 26330.0 | 0.0 | 26330.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 267.5 | 1.0 |
| 10°-20° | 849.6 | 3.2 |
| 20°-30° | 1522.0 | 5.8 |
| 30°-40° | 2289.5 | 8.7 |
| 40°-50° | 3707.5 | 14.1 |
| 50°-60° | 5580.9 | 21.2 |
| 60°-70° | 6568.1 | 24.9 |
| 70°-80° | 4657.4 | 17.7 |
| 80°-90° | 887.5 | 3.4 |
| 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° | 26330.0 | 100.0 |
| 0°-180° | 26330.0 | 100.0 |

Coefficient of Utilization



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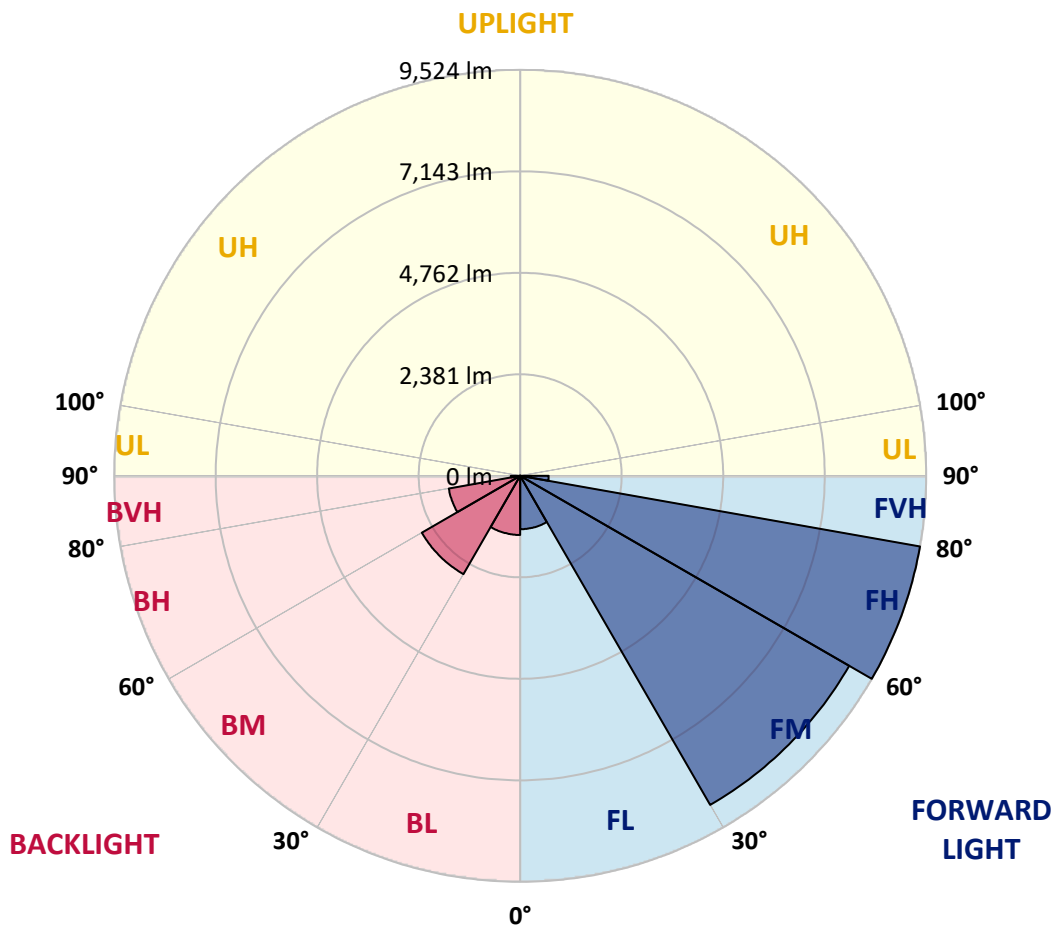
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1252.1 | 4.8 | | | |
| FM (30°-60°) | 8913.5 | 33.9 | | | |
| FH (60°-80°) | 9523.7 | 36.2 | | | G4/12000 |
| FVH (80°-90°) | 669.4 | 2.5 | | | G4/750 |
| BL (0°-30°) | 1387.0 | 5.3 | B3/2500 | | |
| BM (30°-60°) | 2664.4 | 10.1 | B3/5000 | | |
| BH (60°-80°) | 1701.9 | 6.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 218.1 | 0.8 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2777.3 | 2777.3 | 2777.3 | 2777.3 | 2777.3 | 2777.3 | 2777.3 | 2777.3 | 2777.3 | 2777.3 | 2777.3 |
| 2.5° | 2673.0 | 2659.1 | 2662.6 | 2662.6 | 2676.5 | 2683.4 | 2686.9 | 2697.3 | 2704.3 | 2721.6 | 2746.0 |
| 5° | 2547.8 | 2537.4 | 2540.9 | 2544.4 | 2568.7 | 2593.0 | 2613.9 | 2627.8 | 2648.6 | 2676.5 | 2711.2 |
| 7.5° | 2457.5 | 2450.5 | 2454.0 | 2460.9 | 2481.8 | 2509.6 | 2544.4 | 2565.2 | 2596.5 | 2648.6 | 2707.7 |
| 10° | 2391.4 | 2391.4 | 2394.9 | 2408.8 | 2429.7 | 2464.4 | 2492.2 | 2516.6 | 2579.1 | 2673.0 | 2763.4 |
| 12.5° | 2339.3 | 2339.3 | 2349.7 | 2377.5 | 2412.3 | 2447.0 | 2513.1 | 2540.9 | 2624.3 | 2752.9 | 2860.7 |
| 15° | 2335.8 | 2339.3 | 2342.8 | 2367.1 | 2405.3 | 2481.8 | 2579.1 | 2620.8 | 2721.6 | 2874.6 | 2999.7 |
| 17.5° | 2391.4 | 2394.9 | 2381.0 | 2388.0 | 2433.1 | 2540.9 | 2669.5 | 2718.2 | 2846.8 | 3013.6 | 3142.2 |
| 20° | 2561.7 | 2561.7 | 2520.0 | 2481.8 | 2513.1 | 2631.3 | 2777.3 | 2825.9 | 2968.4 | 3152.7 | 3281.3 |
| 22.5° | 2909.3 | 2926.7 | 2829.4 | 2746.0 | 2697.3 | 2763.4 | 2895.4 | 2947.6 | 3107.5 | 3305.6 | 3434.2 |
| 25° | 3329.9 | 3347.3 | 3215.2 | 3097.0 | 3006.7 | 2996.2 | 3083.1 | 3138.8 | 3270.8 | 3475.9 | 3583.7 |
| 27.5° | 3736.6 | 3705.3 | 3583.7 | 3472.4 | 3357.7 | 3263.9 | 3329.9 | 3378.6 | 3531.5 | 3687.9 | 3754.0 |
| 30° | 4056.4 | 4032.1 | 3913.9 | 3833.9 | 3726.2 | 3604.5 | 3566.3 | 3618.4 | 3743.6 | 3889.5 | 3924.3 |
| 32.5° | 4410.9 | 4393.6 | 4275.4 | 4171.1 | 4080.7 | 3966.0 | 3882.6 | 3906.9 | 3976.4 | 4080.7 | 4101.6 |
| 35° | 4862.8 | 4901.0 | 4775.9 | 4563.9 | 4463.1 | 4351.8 | 4292.8 | 4299.7 | 4351.8 | 4417.9 | 4383.1 |
| 37.5° | 5339.0 | 5384.2 | 5391.1 | 5057.5 | 4921.9 | 4821.1 | 4758.5 | 4782.9 | 4845.4 | 4890.6 | 4782.9 |
| 40° | 6221.9 | 6176.7 | 5996.0 | 5749.2 | 5540.6 | 5443.3 | 5356.4 | 5352.9 | 5398.1 | 5478.0 | 5283.4 |
| 42.5° | 7393.3 | 7351.6 | 6986.6 | 6666.8 | 6336.6 | 6225.4 | 6055.0 | 5982.0 | 6002.9 | 6103.7 | 5832.6 |
| 45° | 8516.0 | 8498.6 | 8206.6 | 7834.7 | 7438.5 | 7222.9 | 6833.6 | 6656.4 | 6639.0 | 6718.9 | 6395.7 |
| 47.5° | 9513.6 | 9437.1 | 9225.1 | 8936.6 | 8894.9 | 8331.8 | 7615.7 | 7375.9 | 7292.5 | 7337.7 | 6976.2 |
| 50° | 10580.7 | 10320.0 | 10028.0 | 9850.7 | 10153.1 | 9628.3 | 8404.8 | 8154.5 | 7949.4 | 7980.7 | 7605.3 |
| 52.5° | 11147.3 | 10709.3 | 10518.1 | 10570.3 | 10976.9 | 10775.3 | 9263.3 | 8957.4 | 8627.2 | 8672.4 | 8231.0 |
| 55° | 10660.6 | 10657.2 | 10740.6 | 11063.8 | 11630.4 | 11397.5 | 10080.2 | 9736.0 | 9374.5 | 9385.0 | 8950.5 |
| 57.5° | 9993.3 | 10128.8 | 10559.8 | 11272.4 | 12440.3 | 12051.0 | 10883.1 | 10518.1 | 10187.9 | 10135.8 | 9767.3 |
| 60° | 9385.0 | 9534.4 | 10160.1 | 11237.6 | 12721.8 | 12648.9 | 11647.8 | 11328.0 | 11060.4 | 10907.4 | 10625.9 |
| 62.5° | 8460.4 | 8571.6 | 9458.0 | 11015.2 | 12485.5 | 13079.9 | 12422.9 | 12203.9 | 12002.3 | 11686.0 | 11550.5 |
| 65° | 7372.4 | 7410.6 | 8345.7 | 10281.8 | 12190.0 | 13246.7 | 13194.6 | 13097.2 | 12902.6 | 12436.8 | 12464.6 |
| 67.5° | 6194.1 | 6270.5 | 7090.9 | 9110.4 | 11543.5 | 13170.2 | 13792.4 | 13872.4 | 13643.0 | 12944.3 | 13048.6 |
| 70° | 4939.3 | 5033.1 | 5655.3 | 7490.6 | 10445.1 | 12840.0 | 14345.1 | 14473.7 | 14032.3 | 13111.1 | 13156.3 |
| 72.5° | 3055.3 | 3145.7 | 3562.8 | 5203.4 | 8279.6 | 11731.2 | 14515.4 | 14682.3 | 14042.7 | 12888.7 | 12454.2 |
| 75° | 1056.7 | 1067.1 | 1393.8 | 2495.7 | 4914.9 | 8856.6 | 13959.3 | 14352.0 | 13601.3 | 12078.8 | 10837.9 |
| 77.5° | 483.2 | 500.5 | 618.7 | 1028.9 | 2179.4 | 4779.4 | 11526.1 | 12509.8 | 12259.5 | 10813.6 | 8342.2 |
| 80° | 333.7 | 340.6 | 427.5 | 615.2 | 1258.3 | 1682.3 | 7275.1 | 8557.7 | 8995.7 | 8373.5 | 5346.0 |
| 82.5° | 250.3 | 257.2 | 330.2 | 417.1 | 907.2 | 816.8 | 2770.3 | 3976.4 | 4942.7 | 4852.4 | 2235.0 |
| 85° | 239.8 | 236.4 | 257.2 | 278.1 | 604.8 | 486.6 | 896.8 | 1230.5 | 1929.1 | 1651.1 | 563.1 |
| 87.5° | 104.3 | 114.7 | 264.2 | 156.4 | 316.3 | 225.9 | 389.3 | 455.3 | 587.4 | 511.0 | 201.6 |
| 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° | 2777.3 | 2777.3 | 2777.3 | 2777.3 | 2777.3 | 2777.3 | 2777.3 | 2777.3 | 2777.3 | 2777.3 | 2777.3 |
| 2.5° | 2756.4 | 2763.4 | 2784.2 | 2815.5 | 2832.9 | 2867.6 | 2892.0 | 2905.9 | 2916.3 | 2919.8 | 2919.8 |
| 5° | 2732.1 | 2746.0 | 2791.2 | 2843.3 | 2892.0 | 2965.0 | 3031.0 | 3069.2 | 3097.0 | 3107.5 | 3110.9 |
| 7.5° | 2739.0 | 2773.8 | 2839.8 | 2916.3 | 2978.9 | 3072.7 | 3152.7 | 3229.1 | 3291.7 | 3316.0 | 3316.0 |
| 10° | 2805.1 | 2853.7 | 2944.1 | 3044.9 | 3124.8 | 3222.2 | 3305.6 | 3371.6 | 3444.6 | 3486.3 | 3493.3 |
| 12.5° | 2905.9 | 2965.0 | 3083.1 | 3194.4 | 3284.7 | 3361.2 | 3437.7 | 3486.3 | 3521.1 | 3552.4 | 3559.3 |
| 15° | 3048.4 | 3121.4 | 3239.6 | 3354.3 | 3434.2 | 3482.9 | 3503.7 | 3503.7 | 3500.2 | 3503.7 | 3510.7 |
| 17.5° | 3190.9 | 3260.4 | 3378.6 | 3493.3 | 3531.5 | 3503.7 | 3479.4 | 3472.4 | 3469.0 | 3462.0 | 3465.5 |
| 20° | 3329.9 | 3396.0 | 3496.8 | 3583.7 | 3552.4 | 3455.1 | 3423.8 | 3420.3 | 3409.9 | 3402.9 | 3396.0 |
| 22.5° | 3469.0 | 3517.6 | 3601.0 | 3632.3 | 3507.2 | 3368.2 | 3329.9 | 3309.1 | 3295.2 | 3277.8 | 3260.4 |
| 25° | 3628.9 | 3642.8 | 3705.3 | 3656.7 | 3396.0 | 3208.3 | 3152.7 | 3121.4 | 3107.5 | 3090.1 | 3076.2 |
| 27.5° | 3778.3 | 3778.3 | 3788.7 | 3618.4 | 3232.6 | 2996.2 | 2912.8 | 2857.2 | 2853.7 | 2850.2 | 2846.8 |
| 30° | 3913.9 | 3896.5 | 3861.7 | 3503.7 | 3020.6 | 2735.5 | 2610.4 | 2554.8 | 2575.7 | 2593.0 | 2596.5 |
| 32.5° | 4073.8 | 4039.0 | 3941.7 | 3347.3 | 2766.8 | 2443.6 | 2290.6 | 2266.3 | 2290.6 | 2311.5 | 2297.6 |
| 35° | 4324.0 | 4261.5 | 4025.1 | 3166.6 | 2523.5 | 2175.9 | 2029.9 | 1995.2 | 1988.2 | 1984.7 | 1956.9 |
| 37.5° | 4682.1 | 4574.3 | 4091.2 | 2971.9 | 2283.7 | 1939.6 | 1831.8 | 1758.8 | 1692.8 | 1623.3 | 1612.8 |
| 40° | 5120.0 | 4935.8 | 4136.3 | 2749.4 | 2029.9 | 1741.4 | 1626.7 | 1532.9 | 1421.6 | 1300.0 | 1286.1 |
| 42.5° | 5599.7 | 5325.1 | 4157.2 | 2502.7 | 1807.5 | 1578.1 | 1435.6 | 1317.4 | 1192.2 | 1098.4 | 1081.0 |
| 45° | 6117.6 | 5745.7 | 4139.8 | 2266.3 | 1626.7 | 1439.0 | 1279.1 | 1150.5 | 1049.7 | 983.7 | 969.8 |
| 47.5° | 6621.6 | 6228.8 | 4091.2 | 2078.6 | 1487.7 | 1320.8 | 1157.5 | 1039.3 | 962.8 | 889.8 | 872.5 |
| 50° | 7268.1 | 6691.1 | 4032.1 | 1932.6 | 1334.8 | 1202.7 | 1081.0 | 955.9 | 869.0 | 834.2 | 827.3 |
| 52.5° | 7984.2 | 7153.4 | 3962.5 | 1748.4 | 1185.3 | 1108.8 | 1032.3 | 921.1 | 893.3 | 827.3 | 816.8 |
| 55° | 8759.3 | 7702.6 | 3948.6 | 1515.5 | 1053.2 | 1042.8 | 983.7 | 952.4 | 959.4 | 827.3 | 809.9 |
| 57.5° | 9576.1 | 8290.1 | 3979.9 | 1282.6 | 945.4 | 983.7 | 1004.5 | 980.2 | 969.8 | 844.6 | 809.9 |
| 60° | 10427.7 | 8856.6 | 3886.1 | 1067.1 | 862.0 | 935.0 | 1028.9 | 966.3 | 889.8 | 837.7 | 813.4 |
| 62.5° | 11255.0 | 9332.8 | 3479.4 | 914.2 | 799.5 | 921.1 | 1015.0 | 914.2 | 827.3 | 827.3 | 816.8 |
| 65° | 11856.3 | 9544.9 | 2721.6 | 802.9 | 757.7 | 903.7 | 990.6 | 879.4 | 809.9 | 834.2 | 820.3 |
| 67.5° | 11925.9 | 9325.9 | 1828.3 | 716.0 | 723.0 | 872.5 | 935.0 | 848.1 | 792.5 | 855.1 | 834.2 |
| 70° | 11498.3 | 8755.8 | 1119.2 | 650.0 | 677.8 | 816.8 | 886.4 | 816.8 | 768.2 | 837.7 | 806.4 |
| 72.5° | 10389.5 | 7692.2 | 789.0 | 594.4 | 629.1 | 764.7 | 841.2 | 789.0 | 733.4 | 757.7 | 726.5 |
| 75° | 8522.9 | 5961.2 | 625.7 | 542.2 | 580.5 | 716.0 | 802.9 | 747.3 | 691.7 | 681.3 | 660.4 |
| 77.5° | 6037.7 | 3820.0 | 504.0 | 500.5 | 528.3 | 656.9 | 750.8 | 698.7 | 643.0 | 622.2 | 608.3 |
| 80° | 3472.4 | 1873.5 | 434.5 | 451.9 | 479.7 | 597.9 | 688.2 | 643.0 | 590.9 | 559.6 | 538.8 |
| 82.5° | 1327.8 | 653.5 | 382.4 | 392.8 | 424.1 | 535.3 | 625.7 | 587.4 | 535.3 | 563.1 | 472.7 |
| 85° | 431.0 | 358.0 | 312.8 | 323.3 | 354.5 | 444.9 | 552.7 | 521.4 | 462.3 | 410.2 | 378.9 |
| 87.5° | 191.2 | 194.7 | 166.8 | 184.2 | 222.5 | 295.5 | 403.2 | 382.4 | 337.2 | 281.5 | 271.1 |
| 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)