

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: P399845

Luminaire Tested: **ARCH-L-PA3-200-727-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399845
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-PA3-200-727-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24265 lumens
Efficiency: N/A
Efficacy: 120.7 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

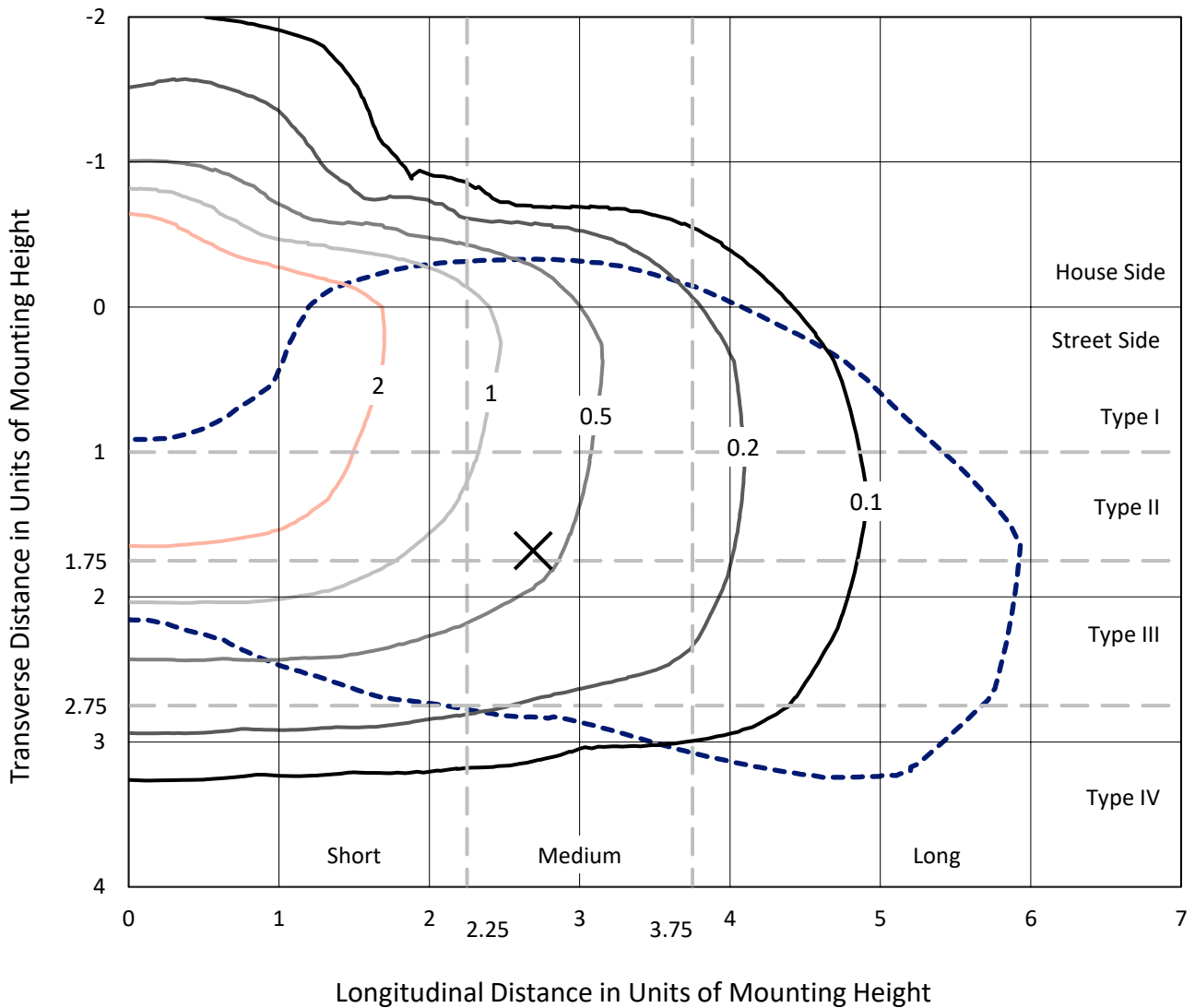
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

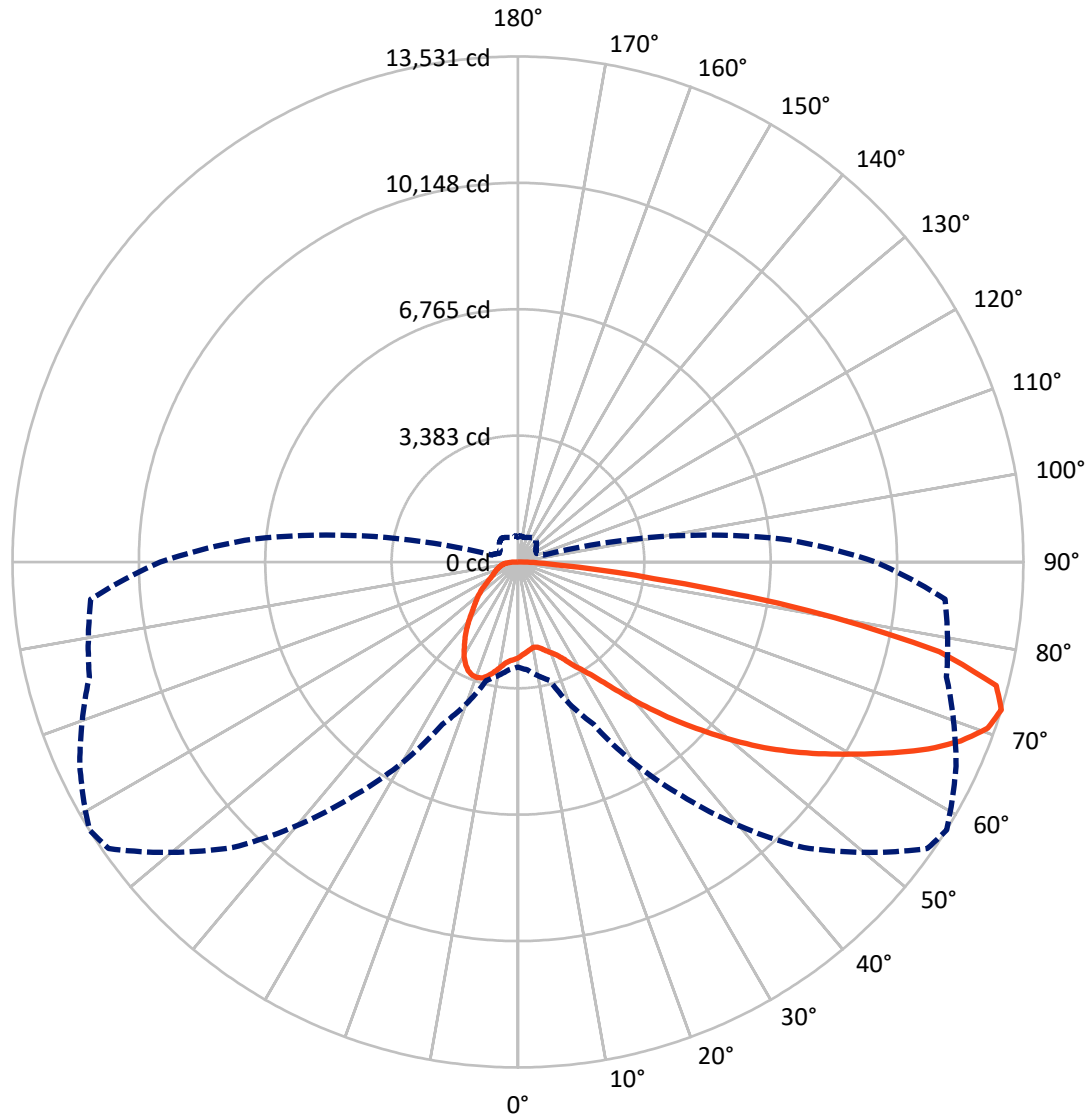
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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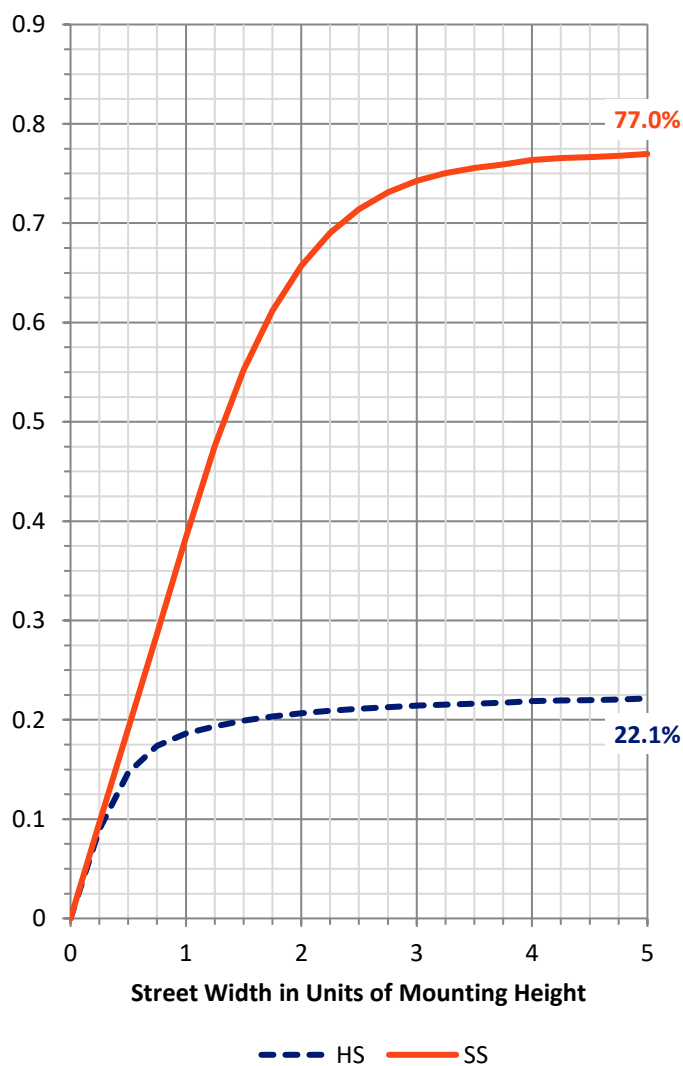
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5503.0 | 0.0 | 5503.0 |
| | % Fixture | 22.7 | 0.0 | 22.7 |
| Street Side | Lumens | 18762.0 | 0.0 | 18762.0 |
| | % Fixture | 77.3 | 0.0 | 77.3 |
| Total | Lumens | 24265.0 | 0.0 | 24265.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 246.6 | 1.0 |
| 10°-20° | 783.0 | 3.2 |
| 20°-30° | 1402.6 | 5.8 |
| 30°-40° | 2109.9 | 8.7 |
| 40°-50° | 3416.7 | 14.1 |
| 50°-60° | 5143.2 | 21.2 |
| 60°-70° | 6053.0 | 24.9 |
| 70°-80° | 4292.1 | 17.7 |
| 80°-90° | 817.9 | 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° | 24265.0 | 100.0 |
| 0°-180° | 24265.0 | 100.0 |

Coefficient of Utilization



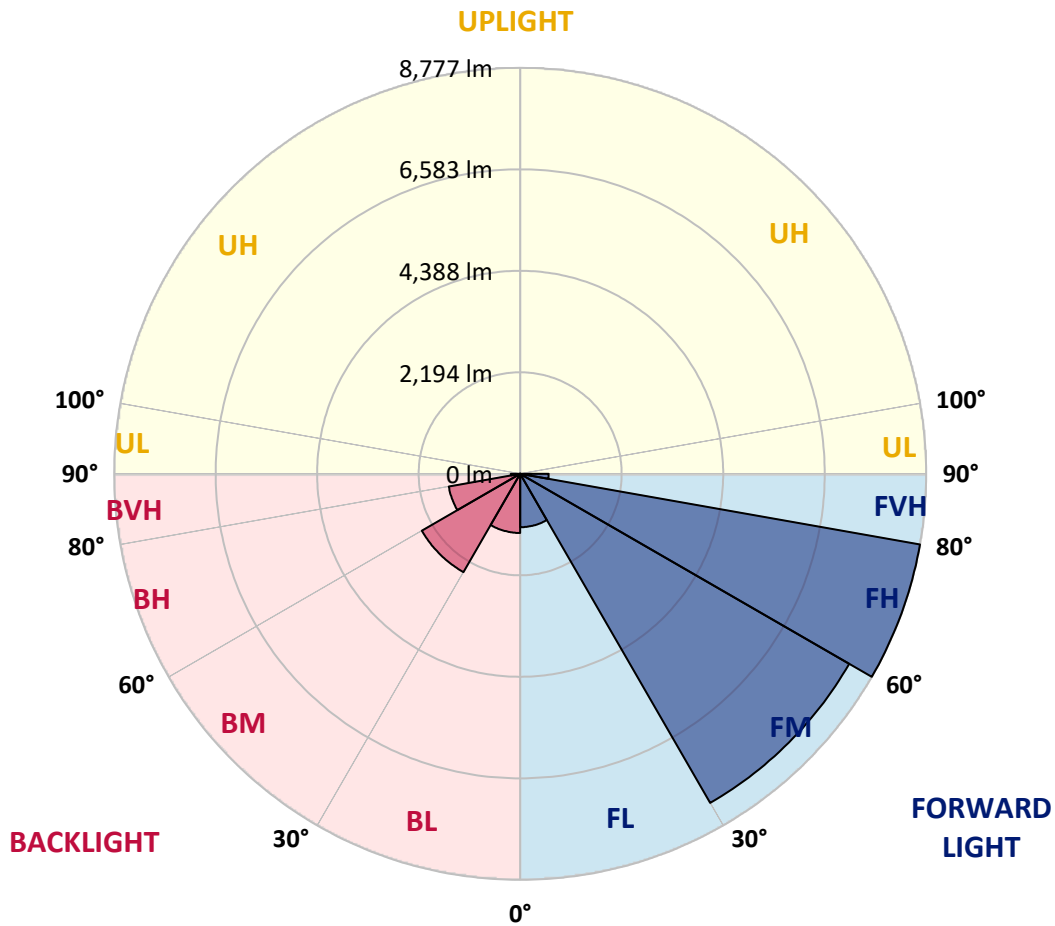
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1153.9 | 4.8 | | | |
| FM (30°-60°) | 8214.4 | 33.9 | | | |
| FH (60°-80°) | 8776.8 | 36.2 | | | G4/12000 |
| FVH (80°-90°) | 616.9 | 2.5 | | | G4/750 |
| BL (0°-30°) | 1278.3 | 5.3 | B3/2500 | | |
| BM (30°-60°) | 2455.4 | 10.1 | B2/2500 | | |
| BH (60°-80°) | 1568.4 | 6.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 201.0 | 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° | 2559.4 | 2559.4 | 2559.4 | 2559.4 | 2559.4 | 2559.4 | 2559.4 | 2559.4 | 2559.4 | 2559.4 | 2559.4 |
| 2.5° | 2463.3 | 2450.5 | 2453.7 | 2453.7 | 2466.5 | 2473.0 | 2476.2 | 2485.8 | 2492.2 | 2508.2 | 2530.6 |
| 5° | 2348.0 | 2338.4 | 2341.6 | 2344.8 | 2367.2 | 2389.7 | 2408.9 | 2421.7 | 2440.9 | 2466.5 | 2498.6 |
| 7.5° | 2264.7 | 2258.3 | 2261.5 | 2267.9 | 2287.2 | 2312.8 | 2344.8 | 2364.0 | 2392.9 | 2440.9 | 2495.4 |
| 10° | 2203.9 | 2203.9 | 2207.1 | 2219.9 | 2239.1 | 2271.1 | 2296.8 | 2319.2 | 2376.9 | 2463.3 | 2546.6 |
| 12.5° | 2155.8 | 2155.8 | 2165.4 | 2191.1 | 2223.1 | 2255.1 | 2316.0 | 2341.6 | 2418.5 | 2537.0 | 2636.3 |
| 15° | 2152.6 | 2155.8 | 2159.0 | 2181.5 | 2216.7 | 2287.2 | 2376.9 | 2415.3 | 2508.2 | 2649.1 | 2764.5 |
| 17.5° | 2203.9 | 2207.1 | 2194.3 | 2200.7 | 2242.3 | 2341.6 | 2460.1 | 2505.0 | 2623.5 | 2777.3 | 2895.8 |
| 20° | 2360.8 | 2360.8 | 2322.4 | 2287.2 | 2316.0 | 2424.9 | 2559.4 | 2604.3 | 2735.6 | 2905.4 | 3023.9 |
| 22.5° | 2681.2 | 2697.2 | 2607.5 | 2530.6 | 2485.8 | 2546.6 | 2668.4 | 2716.4 | 2863.8 | 3046.3 | 3164.9 |
| 25° | 3068.8 | 3084.8 | 2963.1 | 2854.1 | 2770.9 | 2761.2 | 2841.3 | 2892.6 | 3014.3 | 3203.3 | 3302.6 |
| 27.5° | 3443.6 | 3414.7 | 3302.6 | 3200.1 | 3094.4 | 3007.9 | 3068.8 | 3113.6 | 3254.6 | 3398.7 | 3459.6 |
| 30° | 3738.3 | 3715.8 | 3606.9 | 3533.2 | 3433.9 | 3321.8 | 3286.6 | 3334.6 | 3450.0 | 3584.5 | 3616.5 |
| 32.5° | 4065.0 | 4049.0 | 3940.1 | 3844.0 | 3760.7 | 3655.0 | 3578.1 | 3600.5 | 3664.6 | 3760.7 | 3779.9 |
| 35° | 4481.4 | 4516.7 | 4401.3 | 4205.9 | 4113.0 | 4010.5 | 3956.1 | 3962.5 | 4010.5 | 4071.4 | 4039.4 |
| 37.5° | 4920.3 | 4961.9 | 4968.3 | 4660.8 | 4535.9 | 4443.0 | 4385.3 | 4407.7 | 4465.4 | 4507.1 | 4407.7 |
| 40° | 5733.9 | 5692.3 | 5525.7 | 5298.3 | 5106.1 | 5016.4 | 4936.3 | 4933.1 | 4974.7 | 5048.4 | 4869.0 |
| 42.5° | 6813.4 | 6775.0 | 6438.6 | 6143.9 | 5839.6 | 5737.1 | 5580.2 | 5512.9 | 5532.1 | 5625.0 | 5375.1 |
| 45° | 7848.1 | 7832.1 | 7563.0 | 7220.3 | 6855.1 | 6656.5 | 6297.7 | 6134.3 | 6118.3 | 6192.0 | 5894.1 |
| 47.5° | 8767.4 | 8697.0 | 8501.6 | 8235.7 | 8197.3 | 7678.3 | 7018.4 | 6797.4 | 6720.5 | 6762.2 | 6429.0 |
| 50° | 9750.9 | 9510.6 | 9241.5 | 9078.2 | 9356.9 | 8873.2 | 7745.6 | 7515.0 | 7326.0 | 7354.8 | 7008.8 |
| 52.5° | 10273.0 | 9869.4 | 9693.2 | 9741.3 | 10116.0 | 9930.2 | 8536.8 | 8254.9 | 7950.6 | 7992.2 | 7585.4 |
| 55° | 9824.5 | 9821.3 | 9898.2 | 10196.1 | 10718.3 | 10503.6 | 9289.6 | 8972.5 | 8639.3 | 8648.9 | 8248.5 |
| 57.5° | 9209.5 | 9334.4 | 9731.6 | 10388.3 | 11464.6 | 11105.9 | 10029.6 | 9693.2 | 9388.9 | 9340.8 | 9001.3 |
| 60° | 8648.9 | 8786.7 | 9363.3 | 10356.3 | 11724.1 | 11656.8 | 10734.3 | 10439.6 | 10192.9 | 10052.0 | 9792.5 |
| 62.5° | 7796.8 | 7899.4 | 8716.2 | 10151.3 | 11506.3 | 12054.0 | 11448.6 | 11246.8 | 11061.0 | 10769.5 | 10644.6 |
| 65° | 6794.2 | 6829.4 | 7691.1 | 9475.4 | 11234.0 | 12207.8 | 12159.8 | 12070.1 | 11890.7 | 11461.4 | 11487.1 |
| 67.5° | 5708.3 | 5778.8 | 6534.7 | 8395.9 | 10638.2 | 12137.3 | 12710.7 | 12784.4 | 12573.0 | 11929.1 | 12025.2 |
| 70° | 4551.9 | 4638.4 | 5211.8 | 6903.1 | 9625.9 | 11833.0 | 13220.0 | 13338.6 | 12931.7 | 12082.9 | 12124.5 |
| 72.5° | 2815.7 | 2899.0 | 3283.4 | 4795.3 | 7630.3 | 10811.2 | 13377.0 | 13530.8 | 12941.4 | 11877.9 | 11477.4 |
| 75° | 973.8 | 983.4 | 1284.5 | 2300.0 | 4529.5 | 8162.0 | 12864.5 | 13226.5 | 12534.5 | 11131.5 | 9987.9 |
| 77.5° | 445.3 | 461.3 | 570.2 | 948.2 | 2008.5 | 4404.5 | 10622.2 | 11528.7 | 11298.1 | 9965.5 | 7687.9 |
| 80° | 307.5 | 313.9 | 394.0 | 567.0 | 1159.6 | 1550.4 | 6704.5 | 7886.5 | 8290.2 | 7716.8 | 4926.7 |
| 82.5° | 230.6 | 237.0 | 304.3 | 384.4 | 836.1 | 752.8 | 2553.0 | 3664.6 | 4555.1 | 4471.8 | 2059.7 |
| 85° | 221.0 | 217.8 | 237.0 | 256.3 | 557.4 | 448.5 | 826.5 | 1134.0 | 1777.8 | 1521.6 | 518.9 |
| 87.5° | 96.1 | 105.7 | 243.5 | 144.1 | 291.5 | 208.2 | 358.8 | 419.6 | 541.4 | 470.9 | 185.8 |
| 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° | 2559.4 | 2559.4 | 2559.4 | 2559.4 | 2559.4 | 2559.4 | 2559.4 | 2559.4 | 2559.4 | 2559.4 | 2559.4 |
| 2.5° | 2540.2 | 2546.6 | 2565.8 | 2594.7 | 2610.7 | 2642.7 | 2665.2 | 2678.0 | 2687.6 | 2690.8 | 2690.8 |
| 5° | 2517.8 | 2530.6 | 2572.3 | 2620.3 | 2665.2 | 2732.4 | 2793.3 | 2828.5 | 2854.1 | 2863.8 | 2867.0 |
| 7.5° | 2524.2 | 2556.2 | 2617.1 | 2687.6 | 2745.2 | 2831.7 | 2905.4 | 2975.9 | 3033.5 | 3056.0 | 3056.0 |
| 10° | 2585.1 | 2629.9 | 2713.2 | 2806.1 | 2879.8 | 2969.5 | 3046.3 | 3107.2 | 3174.5 | 3212.9 | 3219.3 |
| 12.5° | 2678.0 | 2732.4 | 2841.3 | 2943.8 | 3027.1 | 3097.6 | 3168.1 | 3212.9 | 3244.9 | 3273.8 | 3280.2 |
| 15° | 2809.3 | 2876.6 | 2985.5 | 3091.2 | 3164.9 | 3209.7 | 3228.9 | 3228.9 | 3225.7 | 3228.9 | 3235.3 |
| 17.5° | 2940.6 | 3004.7 | 3113.6 | 3219.3 | 3254.6 | 3228.9 | 3206.5 | 3200.1 | 3196.9 | 3190.5 | 3193.7 |
| 20° | 3068.8 | 3129.6 | 3222.5 | 3302.6 | 3273.8 | 3184.1 | 3155.3 | 3152.1 | 3142.4 | 3136.0 | 3129.6 |
| 22.5° | 3196.9 | 3241.7 | 3318.6 | 3347.5 | 3232.1 | 3104.0 | 3068.8 | 3049.5 | 3036.7 | 3020.7 | 3004.7 |
| 25° | 3344.3 | 3357.1 | 3414.7 | 3369.9 | 3129.6 | 2956.7 | 2905.4 | 2876.6 | 2863.8 | 2847.7 | 2834.9 |
| 27.5° | 3482.0 | 3482.0 | 3491.6 | 3334.6 | 2979.1 | 2761.2 | 2684.4 | 2633.1 | 2629.9 | 2626.7 | 2623.5 |
| 30° | 3606.9 | 3590.9 | 3558.9 | 3228.9 | 2783.7 | 2521.0 | 2405.7 | 2354.4 | 2373.6 | 2389.7 | 2392.9 |
| 32.5° | 3754.3 | 3722.2 | 3632.5 | 3084.8 | 2549.8 | 2251.9 | 2111.0 | 2088.6 | 2111.0 | 2130.2 | 2117.4 |
| 35° | 3984.9 | 3927.3 | 3709.4 | 2918.2 | 2325.6 | 2005.3 | 1870.7 | 1838.7 | 1832.3 | 1829.1 | 1803.5 |
| 37.5° | 4314.9 | 4215.6 | 3770.3 | 2738.8 | 2104.6 | 1787.4 | 1688.1 | 1620.9 | 1560.0 | 1495.9 | 1486.3 |
| 40° | 4718.5 | 4548.7 | 3811.9 | 2533.8 | 1870.7 | 1604.9 | 1499.1 | 1412.7 | 1310.2 | 1198.0 | 1185.2 |
| 42.5° | 5160.5 | 4907.5 | 3831.2 | 2306.4 | 1665.7 | 1454.3 | 1323.0 | 1214.1 | 1098.7 | 1012.2 | 996.2 |
| 45° | 5637.8 | 5295.1 | 3815.1 | 2088.6 | 1499.1 | 1326.2 | 1178.8 | 1060.3 | 967.4 | 906.5 | 893.7 |
| 47.5° | 6102.3 | 5740.3 | 3770.3 | 1915.6 | 1371.0 | 1217.3 | 1066.7 | 957.8 | 887.3 | 820.0 | 804.0 |
| 50° | 6698.1 | 6166.4 | 3715.8 | 1781.0 | 1230.1 | 1108.3 | 996.2 | 880.9 | 800.8 | 768.8 | 762.4 |
| 52.5° | 7358.0 | 6592.4 | 3651.8 | 1611.3 | 1092.3 | 1021.9 | 951.4 | 848.9 | 823.2 | 762.4 | 752.8 |
| 55° | 8072.3 | 7098.5 | 3639.0 | 1396.6 | 970.6 | 961.0 | 906.5 | 877.7 | 884.1 | 762.4 | 746.4 |
| 57.5° | 8825.1 | 7639.9 | 3667.8 | 1182.0 | 871.3 | 906.5 | 925.8 | 903.3 | 893.7 | 778.4 | 746.4 |
| 60° | 9609.9 | 8162.0 | 3581.3 | 983.4 | 794.4 | 861.7 | 948.2 | 890.5 | 820.0 | 772.0 | 749.6 |
| 62.5° | 10372.3 | 8600.9 | 3206.5 | 842.5 | 736.8 | 848.9 | 935.4 | 842.5 | 762.4 | 762.4 | 752.8 |
| 65° | 10926.5 | 8796.3 | 2508.2 | 740.0 | 698.3 | 832.9 | 912.9 | 810.4 | 746.4 | 768.8 | 756.0 |
| 67.5° | 10990.5 | 8594.5 | 1684.9 | 659.9 | 666.3 | 804.0 | 861.7 | 781.6 | 730.4 | 788.0 | 768.8 |
| 70° | 10596.5 | 8069.1 | 1031.5 | 599.0 | 624.6 | 752.8 | 816.8 | 752.8 | 707.9 | 772.0 | 743.2 |
| 72.5° | 9574.7 | 7088.9 | 727.2 | 547.8 | 579.8 | 704.7 | 775.2 | 727.2 | 675.9 | 698.3 | 669.5 |
| 75° | 7854.5 | 5493.7 | 576.6 | 499.7 | 535.0 | 659.9 | 740.0 | 688.7 | 637.5 | 627.8 | 608.6 |
| 77.5° | 5564.1 | 3520.4 | 464.5 | 461.3 | 486.9 | 605.4 | 691.9 | 643.9 | 592.6 | 573.4 | 560.6 |
| 80° | 3200.1 | 1726.6 | 400.4 | 416.4 | 442.1 | 551.0 | 634.3 | 592.6 | 544.6 | 515.7 | 496.5 |
| 82.5° | 1223.7 | 602.2 | 352.4 | 362.0 | 390.8 | 493.3 | 576.6 | 541.4 | 493.3 | 518.9 | 435.6 |
| 85° | 397.2 | 329.9 | 288.3 | 297.9 | 326.7 | 410.0 | 509.3 | 480.5 | 426.0 | 378.0 | 349.2 |
| 87.5° | 176.2 | 179.4 | 153.8 | 169.8 | 205.0 | 272.3 | 371.6 | 352.4 | 310.7 | 259.5 | 249.9 |
| 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)