

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: P399890

Luminaire Tested: **ARCH-L-PA3-200-827-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399890
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-PA3-200-827-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 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: 21331 lumens
Efficiency: N/A
Efficacy: 106.1 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

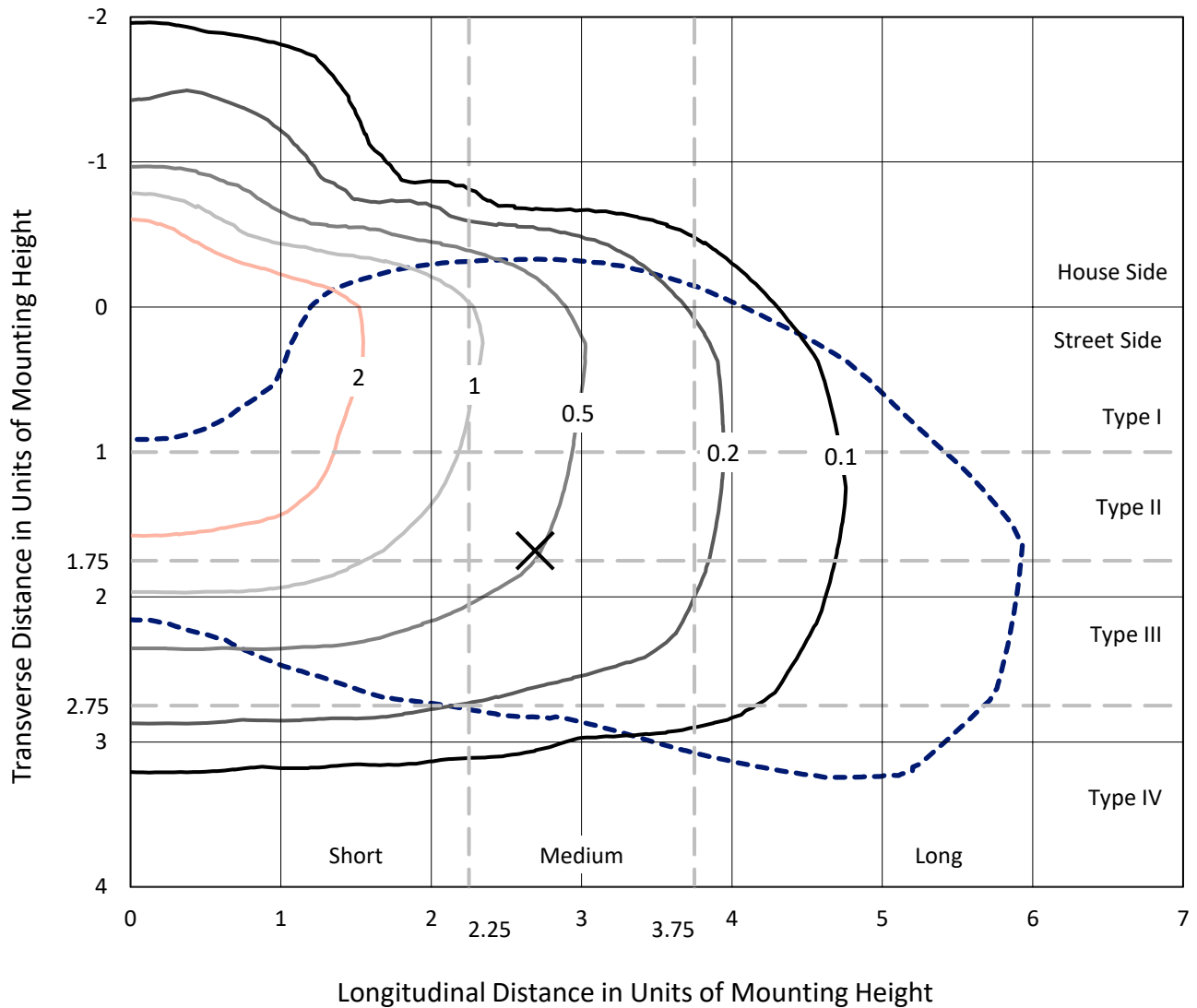
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

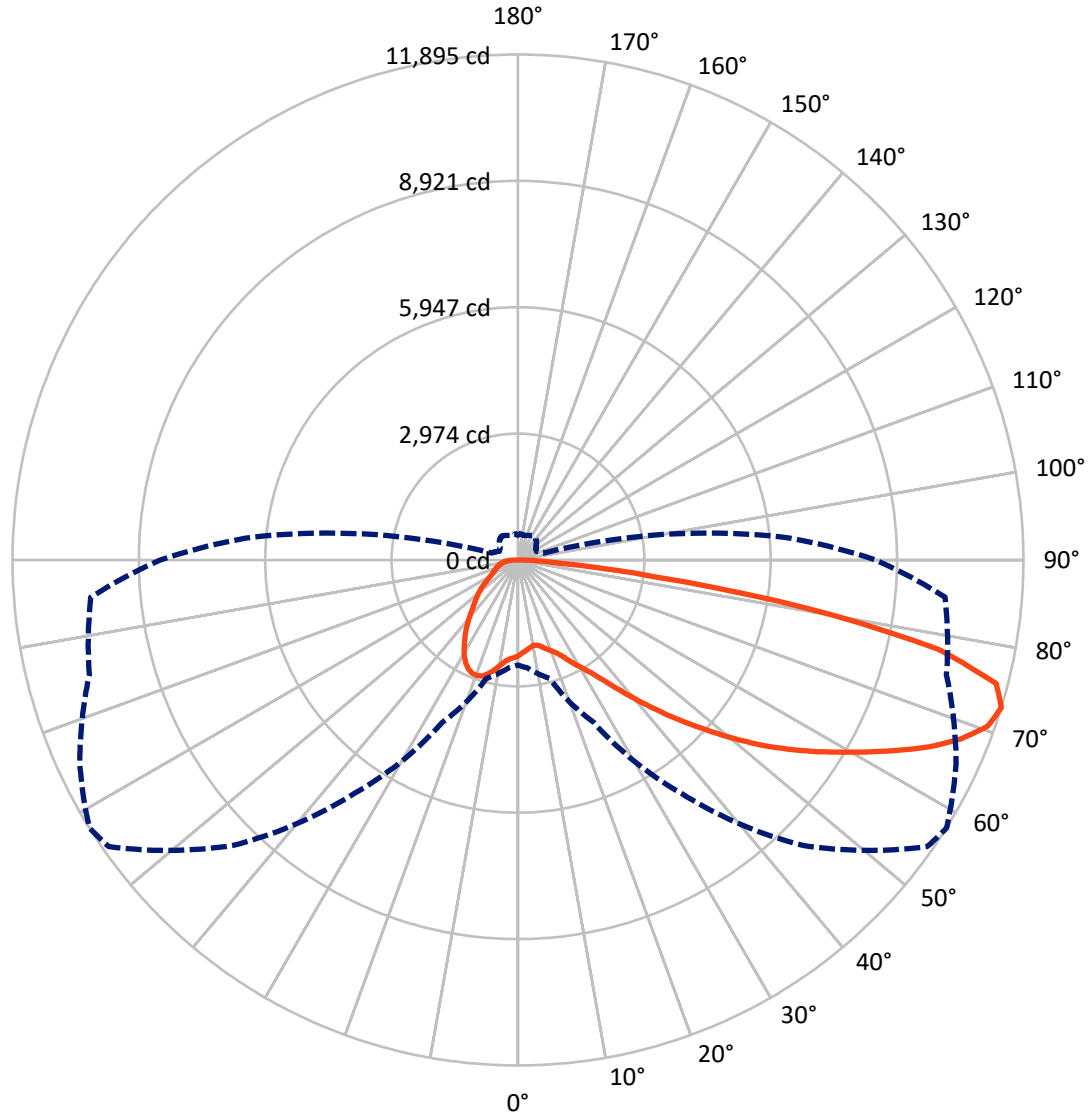
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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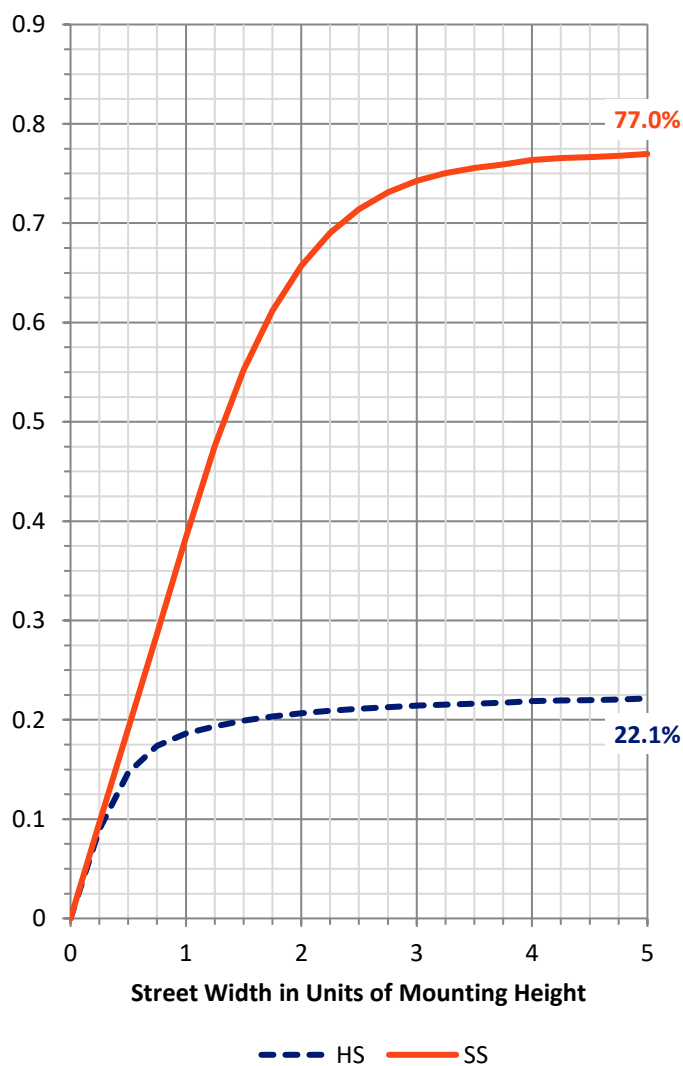
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4837.6 | 0.0 | 4837.6 |
| | % Fixture | 22.7 | 0.0 | 22.7 |
| Street Side | Lumens | 16493.4 | 0.0 | 16493.4 |
| | % Fixture | 77.3 | 0.0 | 77.3 |
| Total | Lumens | 21331.0 | 0.0 | 21331.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 216.7 | 1.0 |
| 10°-20° | 688.3 | 3.2 |
| 20°-30° | 1233.0 | 5.8 |
| 30°-40° | 1854.8 | 8.7 |
| 40°-50° | 3003.6 | 14.1 |
| 50°-60° | 4521.3 | 21.2 |
| 60°-70° | 5321.1 | 24.9 |
| 70°-80° | 3773.2 | 17.7 |
| 80°-90° | 719.0 | 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° | 21331.0 | 100.0 |
| 0°-180° | 21331.0 | 100.0 |

Coefficient of Utilization



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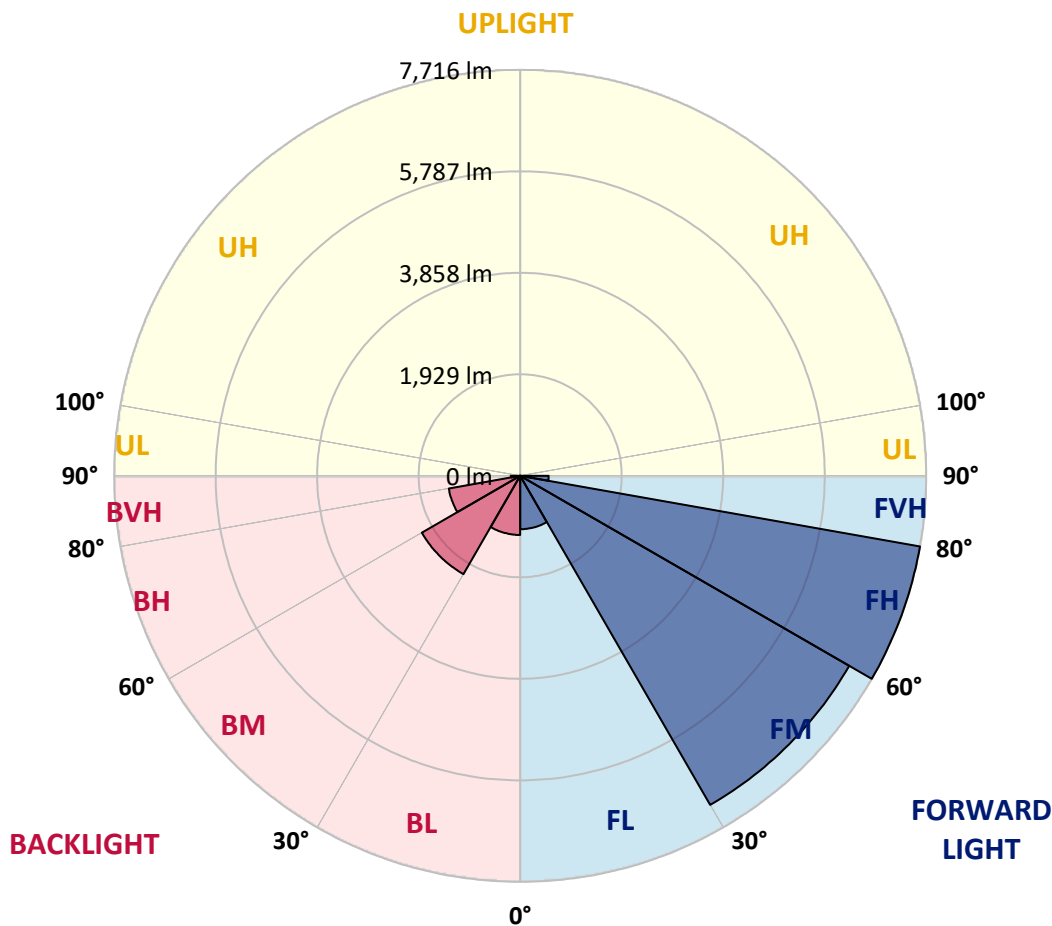
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1014.4 | 4.8 | | | |
| FM (30°-60°) | 7221.2 | 33.9 | | | |
| FH (60°-80°) | 7715.5 | 36.2 | | | G4/12000 |
| FVH (80°-90°) | 542.3 | 2.5 | | | G4/750 |
| BL (0°-30°) | 1123.7 | 5.3 | B3/2500 | | |
| BM (30°-60°) | 2158.5 | 10.1 | B2/2500 | | |
| BH (60°-80°) | 1378.8 | 6.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 176.7 | 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° | 2250.0 | 2250.0 | 2250.0 | 2250.0 | 2250.0 | 2250.0 | 2250.0 | 2250.0 | 2250.0 | 2250.0 | 2250.0 |
| 2.5° | 2165.5 | 2154.2 | 2157.0 | 2157.0 | 2168.3 | 2173.9 | 2176.8 | 2185.2 | 2190.8 | 2204.9 | 2224.6 |
| 5° | 2064.1 | 2055.7 | 2058.5 | 2061.3 | 2081.0 | 2100.7 | 2117.6 | 2128.9 | 2145.8 | 2168.3 | 2196.5 |
| 7.5° | 1990.9 | 1985.3 | 1988.1 | 1993.7 | 2010.6 | 2033.1 | 2061.3 | 2078.2 | 2103.5 | 2145.8 | 2193.6 |
| 10° | 1937.4 | 1937.4 | 1940.2 | 1951.5 | 1968.4 | 1996.5 | 2019.1 | 2038.8 | 2089.5 | 2165.5 | 2238.7 |
| 12.5° | 1895.2 | 1895.2 | 1903.6 | 1926.1 | 1954.3 | 1982.4 | 2036.0 | 2058.5 | 2126.1 | 2230.3 | 2317.6 |
| 15° | 1892.3 | 1895.2 | 1898.0 | 1917.7 | 1948.7 | 2010.6 | 2089.5 | 2123.2 | 2204.9 | 2328.8 | 2430.2 |
| 17.5° | 1937.4 | 1940.2 | 1928.9 | 1934.6 | 1971.2 | 2058.5 | 2162.7 | 2202.1 | 2306.3 | 2441.5 | 2545.6 |
| 20° | 2075.4 | 2075.4 | 2041.6 | 2010.6 | 2036.0 | 2131.7 | 2250.0 | 2289.4 | 2404.8 | 2554.1 | 2658.3 |
| 22.5° | 2357.0 | 2371.1 | 2292.2 | 2224.6 | 2185.2 | 2238.7 | 2345.7 | 2387.9 | 2517.5 | 2678.0 | 2782.2 |
| 25° | 2697.7 | 2711.8 | 2604.8 | 2509.0 | 2435.8 | 2427.4 | 2497.8 | 2542.8 | 2649.8 | 2816.0 | 2903.3 |
| 27.5° | 3027.2 | 3001.8 | 2903.3 | 2813.2 | 2720.2 | 2644.2 | 2697.7 | 2737.1 | 2861.0 | 2987.8 | 3041.3 |
| 30° | 3286.2 | 3266.5 | 3170.8 | 3106.0 | 3018.7 | 2920.2 | 2889.2 | 2931.4 | 3032.8 | 3151.1 | 3179.2 |
| 32.5° | 3573.5 | 3559.4 | 3463.7 | 3379.2 | 3306.0 | 3213.0 | 3145.4 | 3165.2 | 3221.5 | 3306.0 | 3322.9 |
| 35° | 3939.6 | 3970.5 | 3869.2 | 3697.4 | 3615.7 | 3525.6 | 3477.7 | 3483.4 | 3525.6 | 3579.1 | 3550.9 |
| 37.5° | 4325.3 | 4362.0 | 4367.6 | 4097.2 | 3987.4 | 3905.8 | 3855.1 | 3874.8 | 3925.5 | 3962.1 | 3874.8 |
| 40° | 5040.6 | 5004.0 | 4857.6 | 4657.6 | 4488.7 | 4409.8 | 4339.4 | 4336.6 | 4373.2 | 4438.0 | 4280.3 |
| 42.5° | 5989.6 | 5955.8 | 5660.1 | 5401.0 | 5133.5 | 5043.4 | 4905.4 | 4846.3 | 4863.2 | 4944.9 | 4725.2 |
| 45° | 6899.1 | 6885.1 | 6648.5 | 6347.2 | 6026.2 | 5851.6 | 5536.2 | 5392.6 | 5378.5 | 5443.3 | 5181.4 |
| 47.5° | 7707.3 | 7645.4 | 7473.6 | 7239.9 | 7206.1 | 6749.9 | 6169.8 | 5975.5 | 5907.9 | 5944.5 | 5651.7 |
| 50° | 8571.8 | 8360.6 | 8124.1 | 7980.5 | 8225.5 | 7800.3 | 6809.0 | 6606.3 | 6440.1 | 6465.5 | 6161.4 |
| 52.5° | 9030.8 | 8676.0 | 8521.2 | 8563.4 | 8892.9 | 8729.5 | 7504.6 | 7256.8 | 6989.3 | 7025.9 | 6668.2 |
| 55° | 8636.6 | 8633.8 | 8701.4 | 8963.3 | 9422.3 | 9233.6 | 8166.3 | 7887.6 | 7594.7 | 7603.1 | 7251.1 |
| 57.5° | 8095.9 | 8205.8 | 8554.9 | 9132.2 | 10078.4 | 9763.0 | 8816.8 | 8521.2 | 8253.6 | 8211.4 | 7912.9 |
| 60° | 7603.1 | 7724.2 | 8231.1 | 9104.1 | 10306.5 | 10247.3 | 9436.3 | 9177.3 | 8960.4 | 8836.5 | 8608.4 |
| 62.5° | 6854.1 | 6944.2 | 7662.3 | 8923.8 | 10115.0 | 10596.5 | 10064.3 | 9886.9 | 9723.6 | 9467.3 | 9357.5 |
| 65° | 5972.7 | 6003.7 | 6761.2 | 8329.7 | 9875.6 | 10731.7 | 10689.5 | 10610.6 | 10452.9 | 10075.6 | 10098.1 |
| 67.5° | 5018.1 | 5080.0 | 5744.6 | 7380.7 | 9351.9 | 10669.7 | 11173.8 | 11238.6 | 11052.7 | 10486.7 | 10571.2 |
| 70° | 4001.5 | 4077.5 | 4581.6 | 6068.4 | 8462.0 | 10402.2 | 11621.5 | 11725.7 | 11368.1 | 10621.9 | 10658.5 |
| 72.5° | 2475.2 | 2548.5 | 2886.4 | 4215.5 | 6707.7 | 9503.9 | 11759.5 | 11894.7 | 11376.6 | 10441.6 | 10089.7 |
| 75° | 856.1 | 864.5 | 1129.2 | 2021.9 | 3981.8 | 7175.1 | 11309.0 | 11627.2 | 11018.9 | 9785.5 | 8780.2 |
| 77.5° | 391.4 | 405.5 | 501.2 | 833.5 | 1765.6 | 3872.0 | 9337.8 | 10134.7 | 9932.0 | 8760.5 | 6758.3 |
| 80° | 270.3 | 276.0 | 346.4 | 498.4 | 1019.4 | 1362.9 | 5893.8 | 6932.9 | 7287.8 | 6783.7 | 4331.0 |
| 82.5° | 202.8 | 208.4 | 267.5 | 337.9 | 735.0 | 661.8 | 2244.3 | 3221.5 | 4004.3 | 3931.1 | 1810.7 |
| 85° | 194.3 | 191.5 | 208.4 | 225.3 | 490.0 | 394.2 | 726.5 | 996.9 | 1562.9 | 1337.6 | 456.2 |
| 87.5° | 84.5 | 92.9 | 214.0 | 126.7 | 256.3 | 183.0 | 315.4 | 368.9 | 475.9 | 413.9 | 163.3 |
| 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° | 2250.0 | 2250.0 | 2250.0 | 2250.0 | 2250.0 | 2250.0 | 2250.0 | 2250.0 | 2250.0 | 2250.0 | 2250.0 |
| 2.5° | 2233.1 | 2238.7 | 2255.6 | 2280.9 | 2295.0 | 2323.2 | 2342.9 | 2354.2 | 2362.6 | 2365.4 | 2365.4 |
| 5° | 2213.4 | 2224.6 | 2261.2 | 2303.5 | 2342.9 | 2402.0 | 2455.5 | 2486.5 | 2509.0 | 2517.5 | 2520.3 |
| 7.5° | 2219.0 | 2247.2 | 2300.7 | 2362.6 | 2413.3 | 2489.3 | 2554.1 | 2616.0 | 2666.7 | 2686.4 | 2686.4 |
| 10° | 2272.5 | 2311.9 | 2385.1 | 2466.8 | 2531.6 | 2610.4 | 2678.0 | 2731.5 | 2790.6 | 2824.4 | 2830.1 |
| 12.5° | 2354.2 | 2402.0 | 2497.8 | 2587.9 | 2661.1 | 2723.1 | 2785.0 | 2824.4 | 2852.6 | 2877.9 | 2883.6 |
| 15° | 2469.6 | 2528.7 | 2624.5 | 2717.4 | 2782.2 | 2821.6 | 2838.5 | 2838.5 | 2835.7 | 2838.5 | 2844.1 |
| 17.5° | 2585.1 | 2641.4 | 2737.1 | 2830.1 | 2861.0 | 2838.5 | 2818.8 | 2813.2 | 2810.3 | 2804.7 | 2807.5 |
| 20° | 2697.7 | 2751.2 | 2832.9 | 2903.3 | 2877.9 | 2799.1 | 2773.7 | 2770.9 | 2762.5 | 2756.8 | 2751.2 |
| 22.5° | 2810.3 | 2849.8 | 2917.4 | 2942.7 | 2841.3 | 2728.7 | 2697.7 | 2680.8 | 2669.5 | 2655.5 | 2641.4 |
| 25° | 2939.9 | 2951.1 | 3001.8 | 2962.4 | 2751.2 | 2599.1 | 2554.1 | 2528.7 | 2517.5 | 2503.4 | 2492.1 |
| 27.5° | 3061.0 | 3061.0 | 3069.4 | 2931.4 | 2618.9 | 2427.4 | 2359.8 | 2314.7 | 2311.9 | 2309.1 | 2306.3 |
| 30° | 3170.8 | 3156.7 | 3128.6 | 2838.5 | 2447.1 | 2216.2 | 2114.8 | 2069.7 | 2086.6 | 2100.7 | 2103.5 |
| 32.5° | 3300.3 | 3272.2 | 3193.3 | 2711.8 | 2241.5 | 1979.6 | 1855.7 | 1836.0 | 1855.7 | 1872.6 | 1861.4 |
| 35° | 3503.1 | 3452.4 | 3260.9 | 2565.4 | 2044.4 | 1762.8 | 1644.5 | 1616.4 | 1610.7 | 1607.9 | 1585.4 |
| 37.5° | 3793.1 | 3705.8 | 3314.4 | 2407.7 | 1850.1 | 1571.3 | 1484.0 | 1424.9 | 1371.4 | 1315.1 | 1306.6 |
| 40° | 4147.9 | 3998.7 | 3351.0 | 2227.4 | 1644.5 | 1410.8 | 1317.9 | 1241.8 | 1151.7 | 1053.2 | 1041.9 |
| 42.5° | 4536.5 | 4314.1 | 3367.9 | 2027.5 | 1464.3 | 1278.5 | 1163.0 | 1067.3 | 965.9 | 889.8 | 875.8 |
| 45° | 4956.1 | 4654.8 | 3353.8 | 1836.0 | 1317.9 | 1165.8 | 1036.3 | 932.1 | 850.4 | 796.9 | 785.7 |
| 47.5° | 5364.4 | 5046.2 | 3314.4 | 1684.0 | 1205.2 | 1070.1 | 937.7 | 842.0 | 780.0 | 720.9 | 706.8 |
| 50° | 5888.2 | 5420.8 | 3266.5 | 1565.7 | 1081.3 | 974.3 | 875.8 | 774.4 | 704.0 | 675.8 | 670.2 |
| 52.5° | 6468.3 | 5795.3 | 3210.2 | 1416.4 | 960.2 | 898.3 | 836.3 | 746.2 | 723.7 | 670.2 | 661.8 |
| 55° | 7096.3 | 6240.2 | 3199.0 | 1227.8 | 853.2 | 844.8 | 796.9 | 771.6 | 777.2 | 670.2 | 656.1 |
| 57.5° | 7758.0 | 6716.1 | 3224.3 | 1039.1 | 765.9 | 796.9 | 813.8 | 794.1 | 785.7 | 684.3 | 656.1 |
| 60° | 8447.9 | 7175.1 | 3148.3 | 864.5 | 698.4 | 757.5 | 833.5 | 782.8 | 720.9 | 678.7 | 658.9 |
| 62.5° | 9118.1 | 7560.9 | 2818.8 | 740.6 | 647.7 | 746.2 | 822.3 | 740.6 | 670.2 | 670.2 | 661.8 |
| 65° | 9605.3 | 7732.7 | 2204.9 | 650.5 | 613.9 | 732.2 | 802.6 | 712.4 | 656.1 | 675.8 | 664.6 |
| 67.5° | 9661.6 | 7555.3 | 1481.2 | 580.1 | 585.7 | 706.8 | 757.5 | 687.1 | 642.0 | 692.7 | 675.8 |
| 70° | 9315.3 | 7093.5 | 906.7 | 526.6 | 549.1 | 661.8 | 718.1 | 661.8 | 622.3 | 678.7 | 653.3 |
| 72.5° | 8417.0 | 6231.8 | 639.2 | 481.5 | 509.7 | 619.5 | 681.5 | 639.2 | 594.2 | 613.9 | 588.5 |
| 75° | 6904.8 | 4829.4 | 506.9 | 439.3 | 470.3 | 580.1 | 650.5 | 605.4 | 560.4 | 551.9 | 535.0 |
| 77.5° | 4891.4 | 3094.8 | 408.3 | 405.5 | 428.0 | 532.2 | 608.3 | 566.0 | 521.0 | 504.1 | 492.8 |
| 80° | 2813.2 | 1517.8 | 352.0 | 366.1 | 388.6 | 484.3 | 557.6 | 521.0 | 478.7 | 453.4 | 436.5 |
| 82.5° | 1075.7 | 529.4 | 309.8 | 318.2 | 343.5 | 433.7 | 506.9 | 475.9 | 433.7 | 456.2 | 383.0 |
| 85° | 349.2 | 290.0 | 253.4 | 261.9 | 287.2 | 360.4 | 447.7 | 422.4 | 374.5 | 332.3 | 306.9 |
| 87.5° | 154.9 | 157.7 | 135.2 | 149.2 | 180.2 | 239.4 | 326.7 | 309.8 | 273.1 | 228.1 | 219.6 |
| 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)