

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: P399637

Luminaire Tested: **ARCH-L-PA3-170-730-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399637
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-PA3-170-730-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 750mA 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: 17370 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

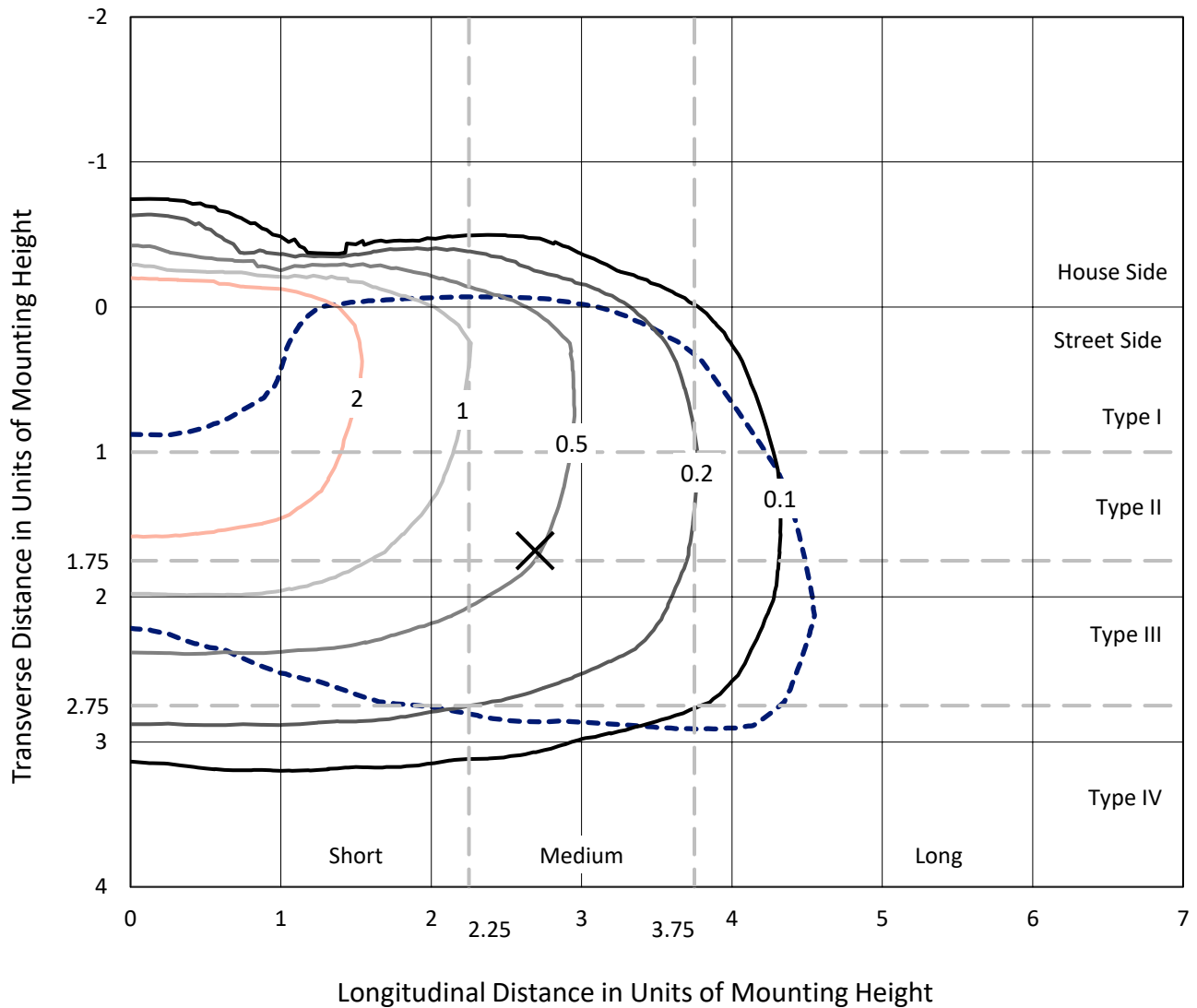
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

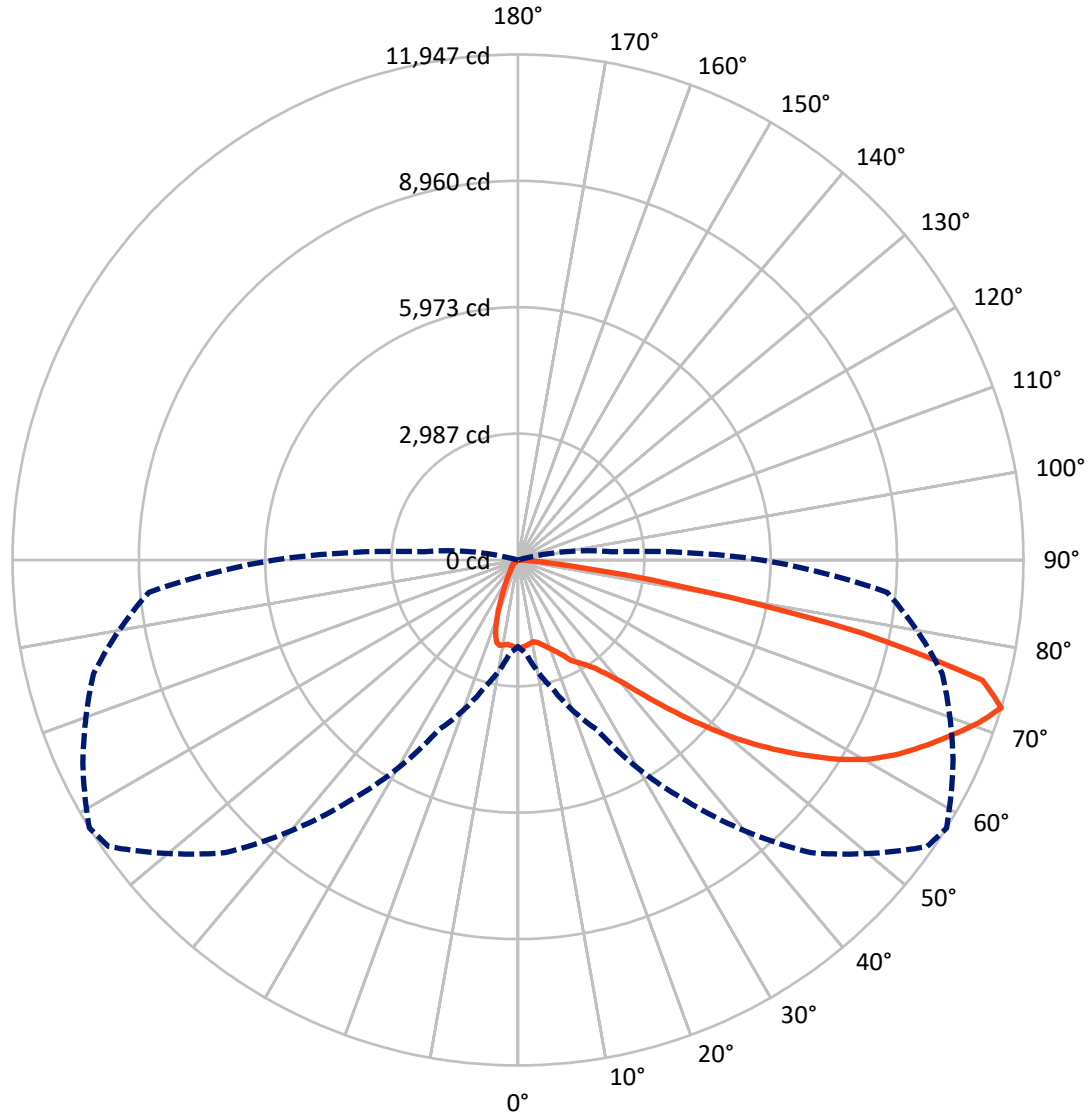
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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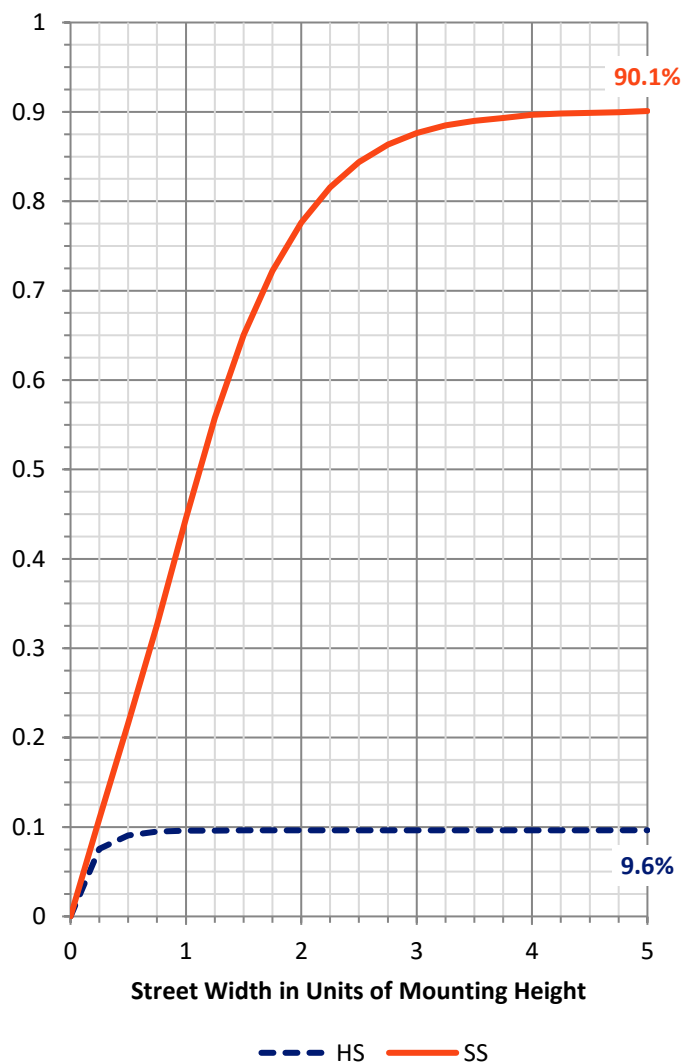
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1689.1 | 0.0 | 1689.1 |
| | % Fixture | 9.7 | 0.0 | 9.7 |
| Street Side | Lumens | 15680.9 | 0.0 | 15680.9 |
| | % Fixture | 90.3 | 0.0 | 90.3 |
| Total | Lumens | 17370.0 | 0.0 | 17370.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 191.3 | 1.1 |
| 10°-20° | 498.2 | 2.9 |
| 20°-30° | 782.7 | 4.5 |
| 30°-40° | 1349.8 | 7.8 |
| 40°-50° | 2568.0 | 14.8 |
| 50°-60° | 4067.0 | 23.4 |
| 60°-70° | 4745.7 | 27.3 |
| 70°-80° | 2972.2 | 17.1 |
| 80°-90° | 195.1 | 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° | 17370.0 | 100.0 |
| 0°-180° | 17370.0 | 100.0 |

Coefficient of Utilization

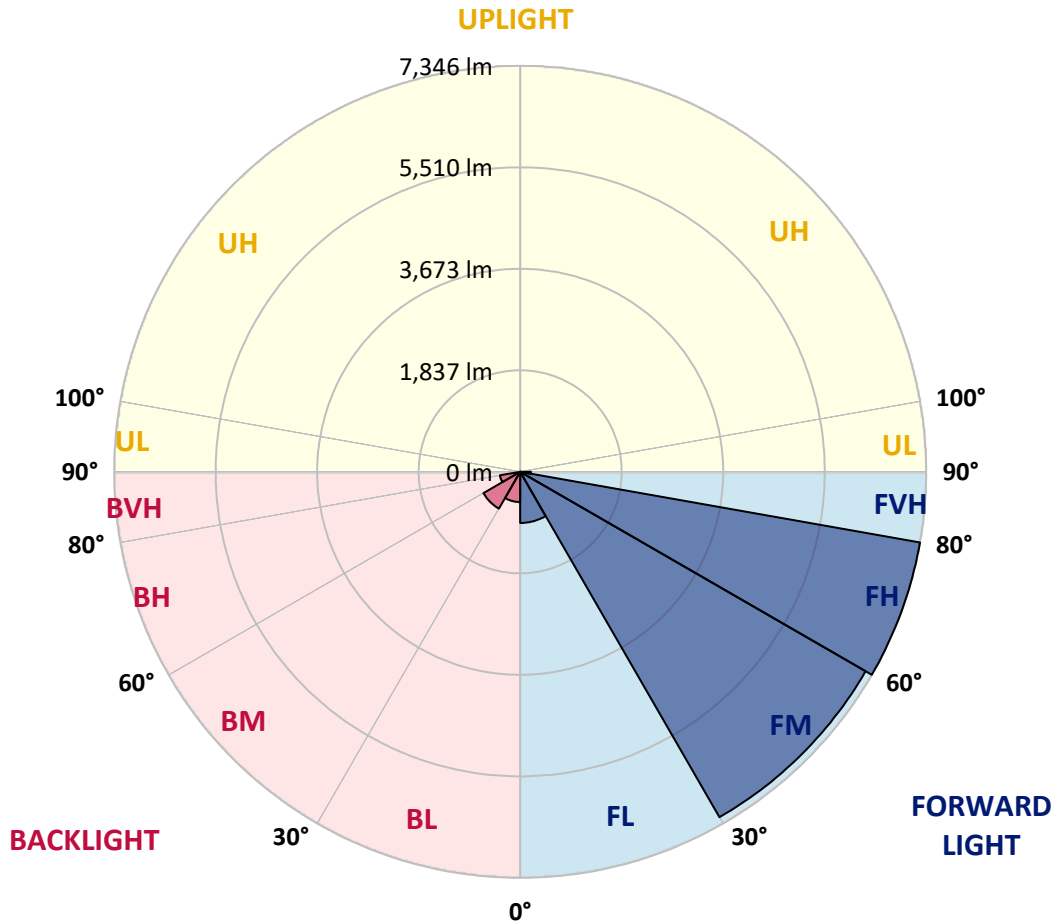


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 925.2 | 5.3 | | | |
| FM (30°-60°) | 7216.2 | 41.5 | | | |
| FH (60°-80°) | 7346.3 | 42.3 | | | G3/7500 |
| FVH (80°-90°) | 193.2 | 1.1 | | | G2/225 |
| BL (0°-30°) | 547.0 | 3.1 | B2/1000 | | |
| BM (30°-60°) | 768.6 | 4.4 | B1/1000 | | |
| BH (60°-80°) | 371.7 | 2.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.9 | 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-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 2084.3 | 2084.3 | 2084.3 | 2084.3 | 2084.3 | 2084.3 | 2084.3 | 2084.3 | 2084.3 | 2084.3 | 2084.3 |
| 2.5° | 2075.0 | 2065.7 | 2062.6 | 2059.4 | 2062.6 | 2065.7 | 2056.3 | 2065.7 | 2059.4 | 2062.6 | 2068.8 |
| 5° | 2000.4 | 1991.1 | 1988.0 | 1991.1 | 2000.4 | 2016.0 | 2022.2 | 2031.5 | 2031.5 | 2040.8 | 2043.9 |
| 7.5° | 1916.6 | 1910.3 | 1907.2 | 1913.5 | 1932.1 | 1966.3 | 1984.9 | 1997.3 | 2009.7 | 2028.4 | 2047.0 |
| 10° | 1870.0 | 1866.9 | 1863.8 | 1873.1 | 1891.7 | 1922.8 | 1947.6 | 1966.3 | 2012.9 | 2065.7 | 2099.8 |
| 12.5° | 1838.9 | 1838.9 | 1845.1 | 1863.8 | 1888.6 | 1913.5 | 1972.5 | 1997.3 | 2068.8 | 2149.5 | 2196.1 |
| 15° | 1814.1 | 1814.1 | 1823.4 | 1857.5 | 1891.7 | 1950.7 | 2037.7 | 2065.7 | 2149.5 | 2248.9 | 2311.1 |
| 17.5° | 1795.4 | 1801.6 | 1807.8 | 1842.0 | 1907.2 | 2006.6 | 2109.1 | 2149.5 | 2252.0 | 2360.8 | 2429.1 |
| 20° | 1798.5 | 1804.7 | 1807.8 | 1842.0 | 1935.2 | 2071.9 | 2202.3 | 2248.9 | 2367.0 | 2481.9 | 2550.2 |
| 22.5° | 1817.2 | 1826.5 | 1829.6 | 1876.2 | 1984.9 | 2140.2 | 2307.9 | 2360.8 | 2488.1 | 2609.3 | 2662.1 |
| 25° | 1894.8 | 1901.0 | 1882.4 | 1922.8 | 2056.3 | 2245.8 | 2444.6 | 2500.5 | 2627.9 | 2739.7 | 2783.2 |
| 27.5° | 2158.8 | 2165.1 | 2062.6 | 2016.0 | 2112.3 | 2332.8 | 2612.4 | 2690.0 | 2848.4 | 2923.0 | 2929.2 |
| 30° | 2730.4 | 2736.6 | 2534.7 | 2314.2 | 2245.8 | 2407.3 | 2705.5 | 2814.3 | 3019.3 | 3103.1 | 3065.9 |
| 32.5° | 3466.6 | 3460.4 | 3183.9 | 2857.8 | 2562.7 | 2537.8 | 2839.1 | 2954.0 | 3177.7 | 3258.5 | 3230.5 |
| 35° | 4205.9 | 4215.2 | 3979.1 | 3488.3 | 3065.9 | 2783.2 | 3010.0 | 3143.5 | 3413.8 | 3528.7 | 3479.0 |
| 37.5° | 4712.2 | 4774.3 | 4671.8 | 4140.6 | 3684.0 | 3236.7 | 3286.4 | 3429.3 | 3767.9 | 3923.2 | 3817.6 |
| 40° | 5426.6 | 5411.1 | 5162.6 | 4771.2 | 4367.4 | 3907.7 | 3733.7 | 3802.1 | 4190.3 | 4398.5 | 4233.8 |
| 42.5° | 6386.5 | 6355.4 | 5932.9 | 5550.9 | 5100.5 | 4724.6 | 4370.5 | 4358.1 | 4674.9 | 4917.2 | 4678.0 |
| 45° | 7256.2 | 7209.6 | 6920.7 | 6551.1 | 6057.2 | 5625.4 | 5147.1 | 5038.3 | 5258.9 | 5463.9 | 5184.3 |
| 47.5° | 7948.9 | 7871.2 | 7666.2 | 7470.5 | 7349.4 | 6678.4 | 5960.9 | 5796.3 | 5908.1 | 6060.3 | 5665.8 |
| 50° | 8768.9 | 8554.6 | 8256.4 | 8138.4 | 8390.0 | 7871.2 | 6743.7 | 6585.3 | 6579.0 | 6666.0 | 6162.8 |
| 52.5° | 9141.7 | 8753.4 | 8585.7 | 8685.1 | 9129.3 | 8980.2 | 7588.6 | 7361.8 | 7271.7 | 7281.1 | 6625.6 |
| 55° | 8691.3 | 8647.8 | 8737.9 | 9048.5 | 9629.4 | 9542.4 | 8399.3 | 8119.7 | 7986.2 | 7818.4 | 7069.8 |
| 57.5° | 8178.8 | 8312.3 | 8669.5 | 9262.8 | 10263.1 | 10129.5 | 9197.6 | 8880.8 | 8635.4 | 8250.2 | 7563.7 |
| 60° | 7706.6 | 7843.3 | 8433.5 | 9312.5 | 10611.0 | 10694.8 | 9862.3 | 9561.0 | 9197.6 | 8691.3 | 8107.3 |
| 62.5° | 6989.1 | 7094.7 | 7924.0 | 9241.1 | 10458.7 | 11024.1 | 10325.2 | 10098.4 | 9759.8 | 9110.6 | 8731.7 |
| 65° | 6181.4 | 6249.8 | 7069.8 | 8669.5 | 10160.5 | 10986.8 | 10707.2 | 10579.9 | 10250.6 | 9548.6 | 9349.8 |
| 67.5° | 5296.2 | 5376.9 | 6060.3 | 7641.4 | 9576.6 | 10812.9 | 11067.6 | 11055.1 | 10679.3 | 10033.2 | 9797.1 |
| 70° | 4277.3 | 4283.5 | 4848.9 | 6336.8 | 8557.7 | 10465.0 | 11514.9 | 11542.8 | 11089.3 | 10396.6 | 9815.8 |
| 72.5° | 2047.0 | 2214.8 | 3143.5 | 4423.3 | 6954.9 | 9781.6 | 11806.9 | 11946.6 | 11347.1 | 10384.2 | 8756.5 |
| 75° | 469.0 | 484.6 | 916.3 | 2102.9 | 4078.5 | 7507.8 | 11076.9 | 11337.8 | 10719.7 | 8980.2 | 6169.0 |
| 77.5° | 170.8 | 180.2 | 257.8 | 615.0 | 1568.7 | 3879.7 | 7927.2 | 8309.2 | 7924.0 | 5805.6 | 2916.8 |
| 80° | 114.9 | 111.8 | 133.6 | 273.4 | 720.7 | 1099.6 | 4053.7 | 4280.4 | 3907.7 | 1981.8 | 698.9 |
| 82.5° | 59.0 | 62.1 | 93.2 | 152.2 | 484.6 | 382.1 | 1354.3 | 1472.4 | 1211.4 | 397.6 | 130.5 |
| 85° | 28.0 | 28.0 | 52.8 | 96.3 | 205.0 | 133.6 | 301.3 | 363.4 | 326.2 | 174.0 | 43.5 |
| 87.5° | 28.0 | 28.0 | 49.7 | 62.1 | 105.6 | 55.9 | 74.6 | 93.2 | 87.0 | 93.2 | 15.5 |
| 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° | 2084.3 | 2084.3 | 2084.3 | 2084.3 | 2084.3 | 2084.3 | 2084.3 | 2084.3 | 2084.3 | 2084.3 | 2084.3 |
| 2.5° | 2068.8 | 2065.7 | 2062.6 | 2068.8 | 2065.7 | 2071.9 | 2071.9 | 2078.1 | 2078.1 | 2071.9 | 2068.8 |
| 5° | 2040.8 | 2034.6 | 2028.4 | 2028.4 | 2025.3 | 2031.5 | 2050.1 | 2065.7 | 2068.8 | 2059.4 | 2056.3 |
| 7.5° | 2043.9 | 2043.9 | 2037.7 | 2025.3 | 2003.5 | 2003.5 | 2003.5 | 2022.2 | 2031.5 | 2025.3 | 2022.2 |
| 10° | 2099.8 | 2102.9 | 2087.4 | 2059.4 | 2022.2 | 1988.0 | 1922.8 | 1826.5 | 1736.4 | 1711.5 | 1702.2 |
| 12.5° | 2196.1 | 2199.2 | 2168.2 | 2118.5 | 2040.8 | 1838.9 | 1590.4 | 1360.5 | 1183.5 | 1133.8 | 1124.5 |
| 15° | 2311.1 | 2314.2 | 2258.2 | 2177.5 | 1941.4 | 1472.4 | 1102.7 | 841.8 | 686.5 | 649.2 | 646.1 |
| 17.5° | 2429.1 | 2422.9 | 2339.0 | 2183.7 | 1646.3 | 1043.7 | 671.0 | 537.4 | 497.0 | 487.7 | 490.8 |
| 20° | 2544.0 | 2525.4 | 2410.5 | 2068.8 | 1267.4 | 683.4 | 490.8 | 459.7 | 450.4 | 444.2 | 444.2 |
| 22.5° | 2649.6 | 2612.4 | 2469.5 | 1842.0 | 888.4 | 490.8 | 438.0 | 431.8 | 419.3 | 410.0 | 406.9 |
| 25° | 2755.2 | 2702.4 | 2506.7 | 1546.9 | 596.4 | 428.7 | 413.1 | 400.7 | 385.2 | 372.8 | 369.6 |
| 27.5° | 2882.6 | 2808.1 | 2488.1 | 1174.2 | 447.3 | 397.6 | 385.2 | 366.5 | 344.8 | 326.2 | 319.9 |
| 30° | 3003.7 | 2919.9 | 2382.5 | 810.7 | 382.1 | 366.5 | 347.9 | 319.9 | 292.0 | 270.2 | 264.0 |
| 32.5° | 3156.0 | 3059.7 | 2193.0 | 531.2 | 332.4 | 319.9 | 301.3 | 267.1 | 229.9 | 205.0 | 198.8 |
| 35° | 3373.4 | 3264.7 | 1950.7 | 372.8 | 292.0 | 270.2 | 245.4 | 208.1 | 167.7 | 149.1 | 146.0 |
| 37.5° | 3677.8 | 3531.8 | 1646.3 | 301.3 | 257.8 | 226.8 | 189.5 | 152.2 | 124.3 | 108.7 | 105.6 |
| 40° | 4050.6 | 3826.9 | 1307.7 | 267.1 | 229.9 | 189.5 | 142.9 | 108.7 | 90.1 | 77.7 | 77.7 |
| 42.5° | 4454.4 | 4103.4 | 962.9 | 245.4 | 201.9 | 155.3 | 105.6 | 77.7 | 65.2 | 59.0 | 55.9 |
| 45° | 4870.6 | 4348.8 | 649.2 | 226.8 | 177.1 | 118.0 | 74.6 | 52.8 | 43.5 | 43.5 | 40.4 |
| 47.5° | 5302.4 | 4513.4 | 419.3 | 205.0 | 149.1 | 87.0 | 49.7 | 37.3 | 31.1 | 31.1 | 31.1 |
| 50° | 5731.0 | 4600.4 | 298.2 | 186.4 | 121.1 | 59.0 | 37.3 | 28.0 | 24.9 | 24.9 | 24.9 |
| 52.5° | 6041.7 | 4544.4 | 239.2 | 161.5 | 93.2 | 43.5 | 28.0 | 21.7 | 18.6 | 18.6 | 18.6 |
| 55° | 6311.9 | 4448.2 | 208.1 | 139.8 | 68.3 | 31.1 | 21.7 | 18.6 | 15.5 | 15.5 | 15.5 |
| 57.5° | 6588.4 | 4323.9 | 186.4 | 118.0 | 49.7 | 21.7 | 15.5 | 12.4 | 12.4 | 12.4 | 12.4 |
| 60° | 6840.0 | 4112.7 | 161.5 | 93.2 | 34.2 | 15.5 | 12.4 | 9.3 | 9.3 | 9.3 | 9.3 |
| 62.5° | 7085.4 | 3932.5 | 139.8 | 71.4 | 24.9 | 12.4 | 6.2 | 6.2 | 3.1 | 3.1 | 3.1 |
| 65° | 7225.1 | 3690.2 | 111.8 | 46.6 | 15.5 | 9.3 | 3.1 | 3.1 | 0.0 | 0.0 | 0.0 |
| 67.5° | 7181.7 | 3401.3 | 77.7 | 28.0 | 9.3 | 6.2 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 6880.3 | 3013.1 | 46.6 | 15.5 | 9.3 | 6.2 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 5762.1 | 2230.3 | 28.0 | 12.4 | 6.2 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 3848.6 | 1025.1 | 15.5 | 9.3 | 3.1 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 1761.2 | 307.5 | 9.3 | 6.2 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 354.1 | 80.8 | 6.2 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 74.6 | 15.5 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 15.5 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.2 | 3.1 | 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)