

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: P400263

Luminaire Tested: **ARCH-L-PA3-260-722-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-260-722-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20152 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

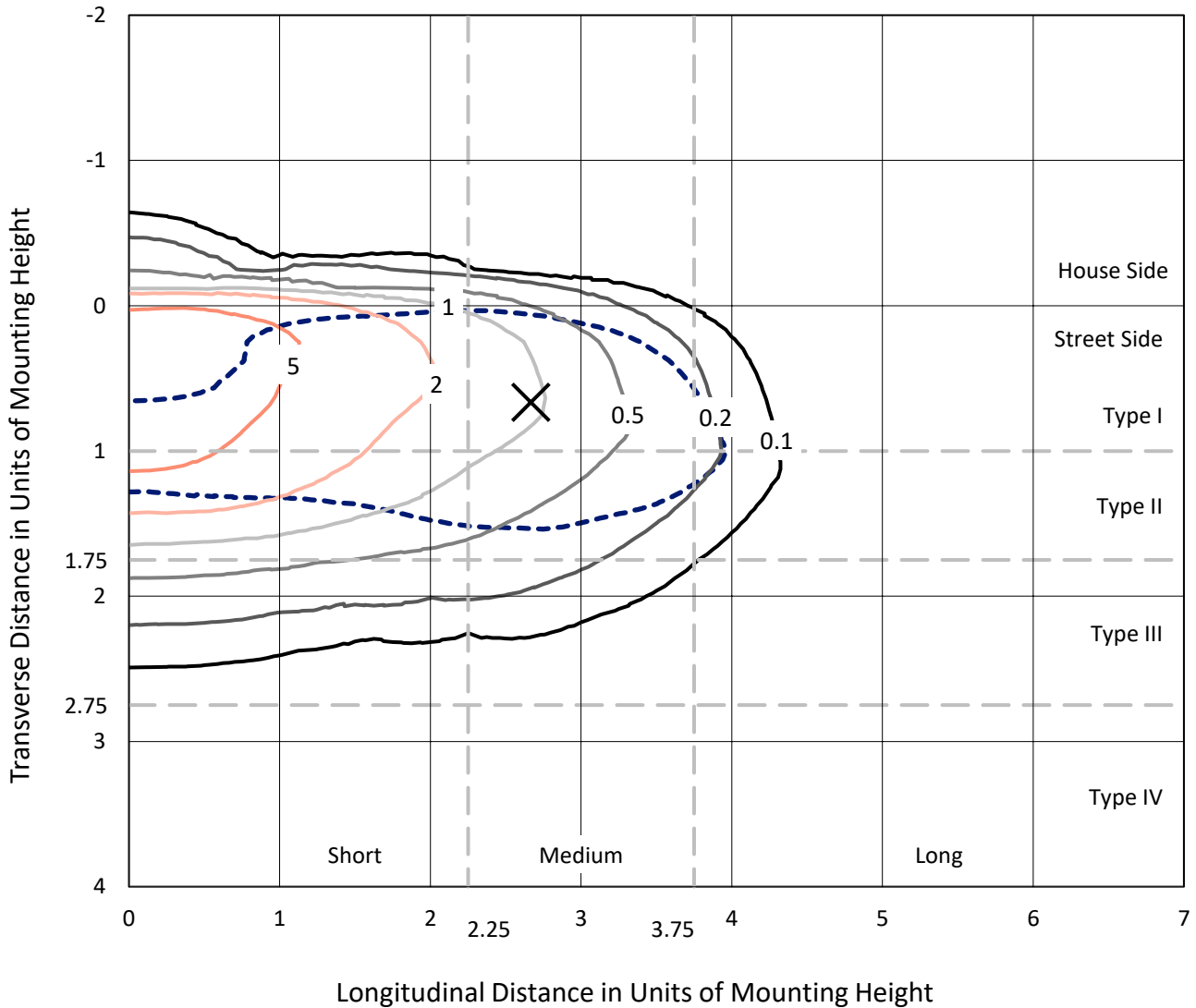
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

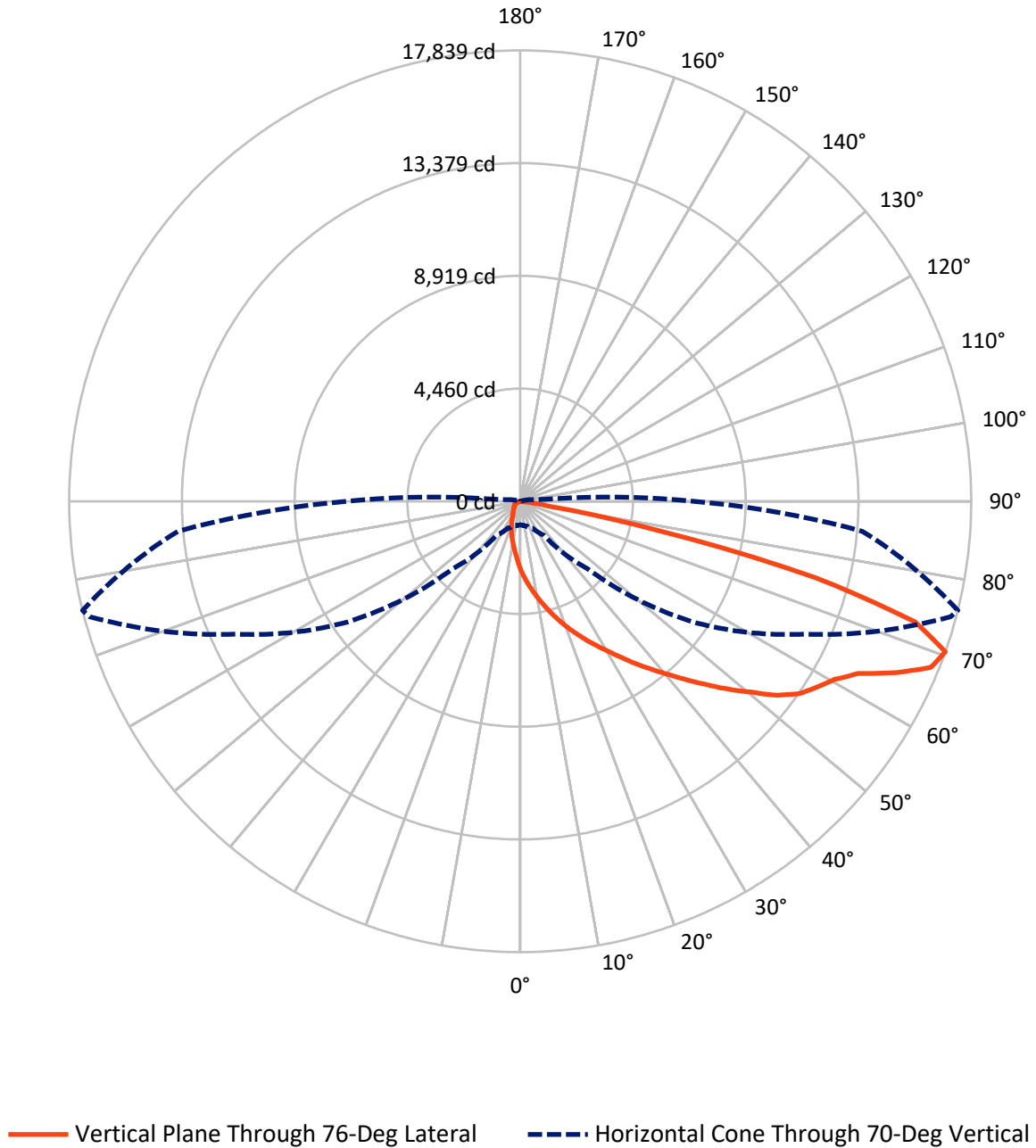
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 950.4 | 0.0 | 950.4 |
| | % Fixture | 4.7 | 0.0 | 4.7 |
| Street Side | Lumens | 19201.6 | 0.0 | 19201.6 |
| | % Fixture | 95.3 | 0.0 | 95.3 |
| Total | Lumens | 20152.0 | 0.0 | 20152.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 254.1 | 1.3 |
| 10°-20° | 820.2 | 4.1 |
| 20°-30° | 1527.5 | 7.6 |
| 30°-40° | 2701.8 | 13.4 |
| 40°-50° | 4131.6 | 20.5 |
| 50°-60° | 4684.3 | 23.2 |
| 60°-70° | 4015.6 | 19.9 |
| 70°-80° | 1944.9 | 9.7 |
| 80°-90° | 72.1 | 0.4 |
| 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° | 20152.0 | 100.0 |
| 0°-180° | 20152.0 | 100.0 |

Coefficient of Utilization

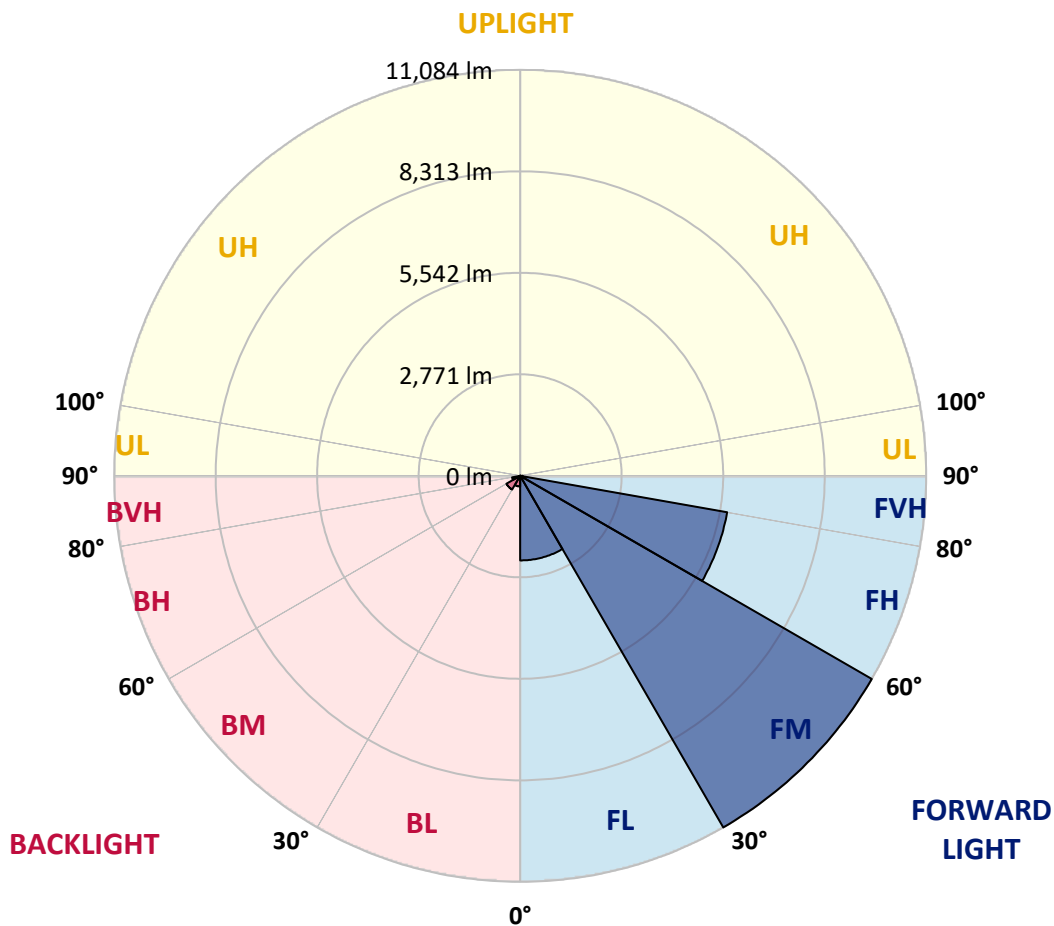


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2310.2 | 11.5 | | | |
| FM (30°-60°) | 11083.8 | 55.0 | | | |
| FH (60°-80°) | 5736.7 | 28.5 | | | G3/7500 |
| FVH (80°-90°) | 70.9 | 0.4 | | | G1/100 |
| BL (0°-30°) | 291.6 | 1.4 | B1/500 | | |
| BM (30°-60°) | 433.9 | 2.2 | B1/1000 | | |
| BH (60°-80°) | 223.8 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2697.5 | 2697.5 | 2697.5 | 2697.5 | 2697.5 | 2697.5 | 2697.5 | 2697.5 | 2697.5 | 2697.5 | 2697.5 |
| 2.5° | 3687.2 | 3667.1 | 3647.0 | 3569.8 | 3499.3 | 3435.6 | 3314.8 | 3157.1 | 3016.2 | 2986.0 | 2821.6 |
| 5° | 4331.4 | 4307.9 | 4277.7 | 4200.5 | 4110.0 | 4002.6 | 3824.8 | 3583.2 | 3334.9 | 3281.3 | 2975.9 |
| 7.5° | 4767.6 | 4747.4 | 4703.8 | 4666.9 | 4576.3 | 4472.3 | 4274.4 | 3992.5 | 3650.3 | 3583.2 | 3153.8 |
| 10° | 5066.2 | 5052.7 | 5046.0 | 5015.8 | 4948.7 | 4864.8 | 4666.9 | 4371.7 | 3969.0 | 3891.9 | 3341.6 |
| 12.5° | 5173.5 | 5173.5 | 5207.1 | 5257.4 | 5267.5 | 5240.6 | 5059.4 | 4764.2 | 4304.6 | 4224.0 | 3563.1 |
| 15° | 5029.2 | 5046.0 | 5119.8 | 5280.9 | 5448.6 | 5559.3 | 5445.3 | 5170.2 | 4673.6 | 4586.4 | 3824.8 |
| 17.5° | 4989.0 | 5005.8 | 5056.1 | 5197.0 | 5421.8 | 5717.0 | 5774.1 | 5562.7 | 5022.5 | 4948.7 | 4093.2 |
| 20° | 5103.1 | 5119.8 | 5163.4 | 5284.2 | 5455.3 | 5753.9 | 5992.2 | 5941.8 | 5391.6 | 5314.4 | 4364.9 |
| 22.5° | 5374.8 | 5384.9 | 5384.9 | 5478.8 | 5629.8 | 5851.2 | 6129.7 | 6300.8 | 5770.7 | 5686.8 | 4633.3 |
| 25° | 5958.6 | 5938.5 | 5857.9 | 5811.0 | 5908.3 | 6089.4 | 6304.2 | 6616.2 | 6193.5 | 6079.4 | 4921.9 |
| 27.5° | 6723.6 | 6790.7 | 6596.1 | 6371.3 | 6297.5 | 6401.5 | 6549.1 | 6894.7 | 6602.8 | 6482.0 | 5183.6 |
| 30° | 7760.3 | 7733.4 | 7478.4 | 7156.4 | 6837.6 | 6800.7 | 6851.0 | 7132.9 | 7012.1 | 6898.0 | 5475.5 |
| 32.5° | 8612.5 | 8662.8 | 8394.4 | 8001.8 | 7525.4 | 7300.6 | 7246.9 | 7418.1 | 7448.3 | 7374.4 | 5821.0 |
| 35° | 9488.1 | 9541.8 | 9280.1 | 8844.0 | 8277.0 | 7901.2 | 7746.9 | 7770.3 | 7988.4 | 7894.5 | 6183.4 |
| 37.5° | 10273.2 | 10320.2 | 10061.8 | 9615.6 | 9048.6 | 8589.0 | 8367.5 | 8186.4 | 8511.8 | 8427.9 | 6565.9 |
| 40° | 10870.4 | 10877.1 | 10702.7 | 10303.4 | 9766.6 | 9290.2 | 9038.6 | 8682.9 | 9065.4 | 9008.4 | 6965.1 |
| 42.5° | 11293.2 | 11306.6 | 11179.1 | 10836.9 | 10340.3 | 9897.5 | 9692.8 | 9270.1 | 9702.9 | 9652.5 | 7428.1 |
| 45° | 11491.1 | 11514.6 | 11501.2 | 11185.8 | 10773.1 | 10390.6 | 10323.5 | 9894.1 | 10400.7 | 10353.7 | 7961.6 |
| 47.5° | 11303.2 | 11303.2 | 11474.3 | 11430.7 | 11051.6 | 10796.6 | 10873.8 | 10545.0 | 11159.0 | 11115.3 | 8505.1 |
| 50° | 10521.5 | 10531.6 | 10880.5 | 11380.4 | 11159.0 | 11101.9 | 11343.5 | 11182.4 | 11846.7 | 11873.6 | 9156.0 |
| 52.5° | 8468.2 | 8451.4 | 9629.0 | 10588.6 | 11085.1 | 11239.5 | 11776.3 | 11833.3 | 12672.1 | 12752.6 | 9803.5 |
| 55° | 6327.7 | 6317.6 | 7444.9 | 9186.2 | 10568.5 | 11169.0 | 12017.9 | 12413.8 | 13376.7 | 13427.0 | 10286.6 |
| 57.5° | 5009.1 | 4982.3 | 5603.0 | 7404.6 | 9400.9 | 10853.6 | 12027.9 | 12524.5 | 13769.2 | 13856.4 | 10756.3 |
| 60° | 3851.6 | 3828.1 | 4291.1 | 5509.0 | 7746.9 | 10014.9 | 11739.4 | 12531.2 | 14148.3 | 14302.7 | 11387.1 |
| 62.5° | 2754.5 | 2781.4 | 3137.0 | 3952.3 | 5958.6 | 8830.5 | 11363.6 | 12625.1 | 14822.7 | 14997.2 | 12282.9 |
| 65° | 1858.7 | 1845.3 | 2140.5 | 2690.8 | 4237.5 | 7236.9 | 10786.5 | 12823.1 | 16037.2 | 16342.5 | 13356.5 |
| 67.5° | 1291.7 | 1301.8 | 1436.0 | 1751.3 | 2690.8 | 5556.0 | 9827.0 | 12933.8 | 17292.0 | 17530.2 | 14108.1 |
| 70° | 932.7 | 946.1 | 1019.9 | 1177.6 | 1644.0 | 3767.7 | 8307.1 | 12427.2 | 17630.9 | 17838.9 | 13584.7 |
| 72.5° | 614.0 | 640.8 | 751.5 | 835.4 | 1050.1 | 2358.6 | 6119.6 | 10706.0 | 16171.4 | 16325.8 | 11397.2 |
| 75° | 332.2 | 338.9 | 483.1 | 624.0 | 748.2 | 1469.5 | 3650.3 | 7220.1 | 12098.4 | 12048.0 | 7515.4 |
| 77.5° | 258.3 | 268.4 | 298.6 | 446.2 | 503.3 | 808.6 | 1442.7 | 3261.1 | 5730.5 | 5576.1 | 2563.3 |
| 80° | 157.7 | 164.4 | 208.0 | 265.1 | 352.3 | 469.7 | 422.7 | 885.7 | 1164.2 | 1090.4 | 375.8 |
| 82.5° | 93.9 | 100.7 | 124.1 | 221.4 | 278.5 | 221.4 | 147.6 | 214.7 | 218.1 | 214.7 | 93.9 |
| 85° | 16.8 | 16.8 | 87.2 | 154.3 | 147.6 | 63.7 | 87.2 | 70.5 | 63.7 | 67.1 | 20.1 |
| 87.5° | 0.0 | 0.0 | 33.6 | 47.0 | 67.1 | 23.5 | 33.6 | 16.8 | 16.8 | 16.8 | 10.1 |
| 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° | 2697.5 | 2697.5 | 2697.5 | 2697.5 | 2697.5 | 2697.5 | 2697.5 | 2697.5 | 2697.5 | 2697.5 | 2697.5 |
| 2.5° | 2721.0 | 2606.9 | 2372.0 | 2167.4 | 1962.7 | 1811.7 | 1697.7 | 1580.2 | 1540.0 | 1489.7 | 1462.8 |
| 5° | 2767.9 | 2543.1 | 2076.8 | 1704.4 | 1389.0 | 1147.4 | 993.1 | 899.2 | 838.8 | 795.2 | 785.1 |
| 7.5° | 2838.4 | 2492.8 | 1838.6 | 1335.3 | 989.7 | 748.2 | 620.7 | 556.9 | 523.4 | 503.3 | 496.6 |
| 10° | 2922.3 | 2449.2 | 1603.7 | 1040.1 | 697.9 | 526.7 | 456.3 | 429.4 | 416.0 | 409.3 | 406.0 |
| 12.5° | 3039.7 | 2432.4 | 1405.8 | 801.9 | 526.7 | 432.8 | 395.9 | 379.1 | 369.1 | 359.0 | 355.6 |
| 15° | 3194.0 | 2439.1 | 1224.6 | 620.7 | 436.2 | 385.8 | 355.6 | 338.9 | 325.4 | 315.4 | 315.4 |
| 17.5° | 3355.1 | 2449.2 | 1046.8 | 503.3 | 395.9 | 352.3 | 318.7 | 295.2 | 285.2 | 275.1 | 271.8 |
| 20° | 3506.0 | 2445.8 | 875.7 | 429.4 | 359.0 | 315.4 | 281.8 | 258.3 | 241.6 | 231.5 | 231.5 |
| 22.5° | 3650.3 | 2425.7 | 714.6 | 385.8 | 328.8 | 278.5 | 241.6 | 218.1 | 204.7 | 194.6 | 194.6 |
| 25° | 3804.6 | 2385.5 | 583.8 | 352.3 | 291.9 | 244.9 | 208.0 | 184.5 | 174.5 | 164.4 | 164.4 |
| 27.5° | 3925.4 | 2318.4 | 476.4 | 322.1 | 258.3 | 211.4 | 177.8 | 157.7 | 147.6 | 140.9 | 140.9 |
| 30° | 4056.3 | 2221.1 | 395.9 | 288.5 | 224.8 | 181.2 | 151.0 | 134.2 | 124.1 | 120.8 | 120.8 |
| 32.5° | 4200.5 | 2113.7 | 338.9 | 255.0 | 191.2 | 154.3 | 127.5 | 117.4 | 107.4 | 104.0 | 104.0 |
| 35° | 4368.3 | 2019.8 | 305.3 | 221.4 | 167.8 | 130.8 | 110.7 | 100.7 | 93.9 | 93.9 | 93.9 |
| 37.5° | 4559.5 | 1922.5 | 275.1 | 194.6 | 144.3 | 110.7 | 93.9 | 90.6 | 87.2 | 83.9 | 83.9 |
| 40° | 4767.6 | 1818.4 | 248.3 | 171.1 | 124.1 | 93.9 | 80.5 | 80.5 | 77.2 | 77.2 | 77.2 |
| 42.5° | 5002.4 | 1727.9 | 224.8 | 151.0 | 107.4 | 80.5 | 70.5 | 70.5 | 67.1 | 67.1 | 67.1 |
| 45° | 5257.4 | 1644.0 | 204.7 | 134.2 | 93.9 | 70.5 | 63.7 | 60.4 | 57.0 | 57.0 | 57.0 |
| 47.5° | 5559.3 | 1597.0 | 187.9 | 117.4 | 80.5 | 60.4 | 53.7 | 50.3 | 47.0 | 43.6 | 43.6 |
| 50° | 5945.2 | 1617.1 | 171.1 | 97.3 | 70.5 | 50.3 | 43.6 | 40.3 | 36.9 | 33.6 | 33.6 |
| 52.5° | 6250.5 | 1607.1 | 147.6 | 83.9 | 57.0 | 40.3 | 33.6 | 30.2 | 26.8 | 23.5 | 23.5 |
| 55° | 6471.9 | 1566.8 | 127.5 | 70.5 | 43.6 | 33.6 | 26.8 | 20.1 | 16.8 | 16.8 | 16.8 |
| 57.5° | 6690.0 | 1526.6 | 107.4 | 57.0 | 33.6 | 23.5 | 16.8 | 13.4 | 13.4 | 13.4 | 13.4 |
| 60° | 7028.9 | 1469.5 | 93.9 | 47.0 | 26.8 | 16.8 | 10.1 | 10.1 | 6.7 | 6.7 | 6.7 |
| 62.5° | 7441.5 | 1399.1 | 77.2 | 40.3 | 20.1 | 13.4 | 6.7 | 6.7 | 0.0 | 0.0 | 0.0 |
| 65° | 7894.5 | 1274.9 | 63.7 | 30.2 | 16.8 | 10.1 | 6.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 7790.5 | 1023.3 | 53.7 | 20.1 | 13.4 | 6.7 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 6891.3 | 691.1 | 43.6 | 16.8 | 10.1 | 6.7 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 5398.3 | 409.3 | 30.2 | 13.4 | 6.7 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 3455.7 | 204.7 | 20.1 | 10.1 | 6.7 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 1157.5 | 100.7 | 13.4 | 6.7 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 164.4 | 33.6 | 6.7 | 3.4 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 36.9 | 13.4 | 3.4 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 13.4 | 6.7 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.7 | 3.4 | 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)