

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: P400219

Luminaire Tested: **ARCH-L-PA3-250-740-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-250-740-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33790 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

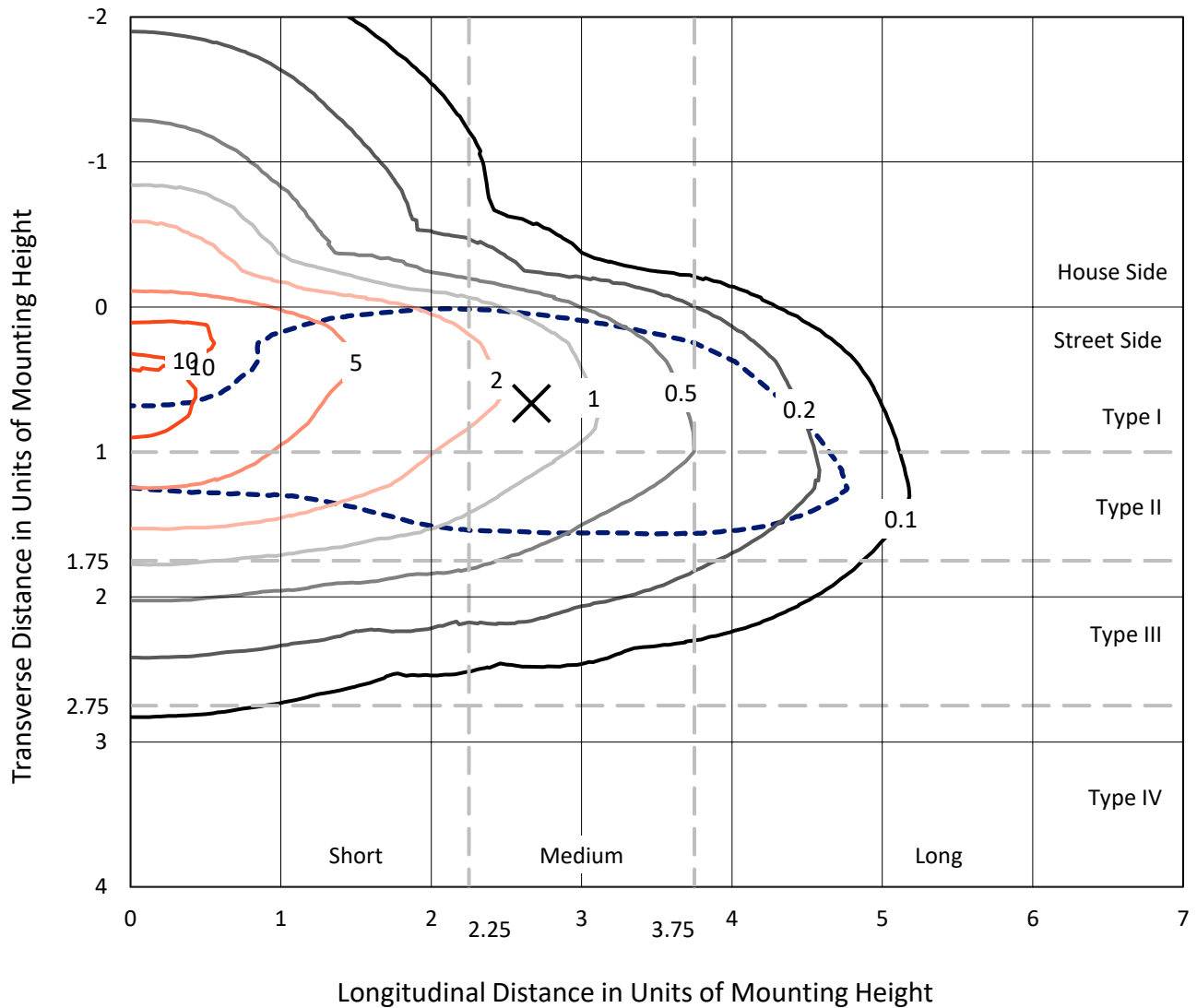
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

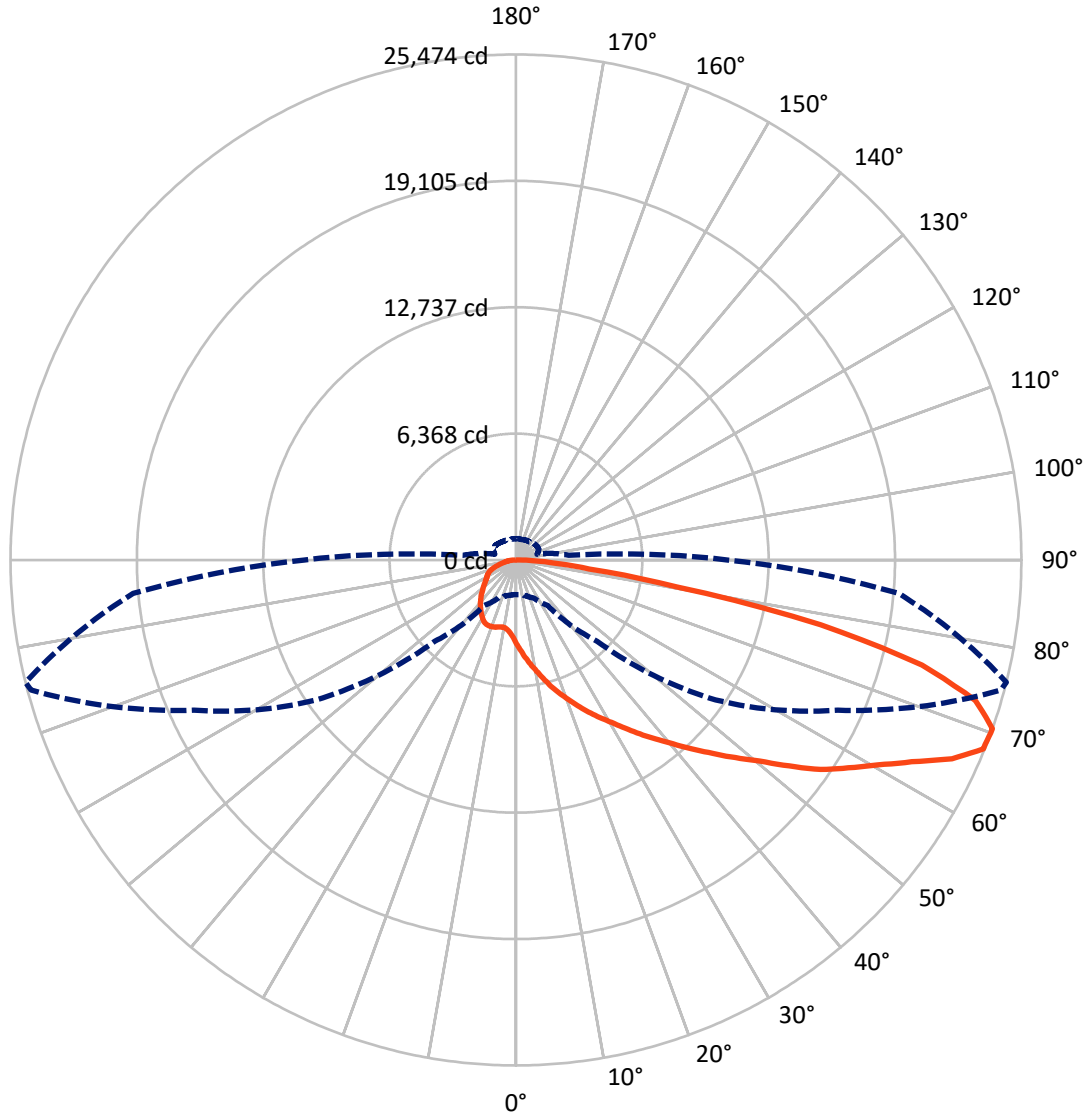
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Medium - N/A

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CATALOG NUMBER: ARCH-L-PA3-250-740-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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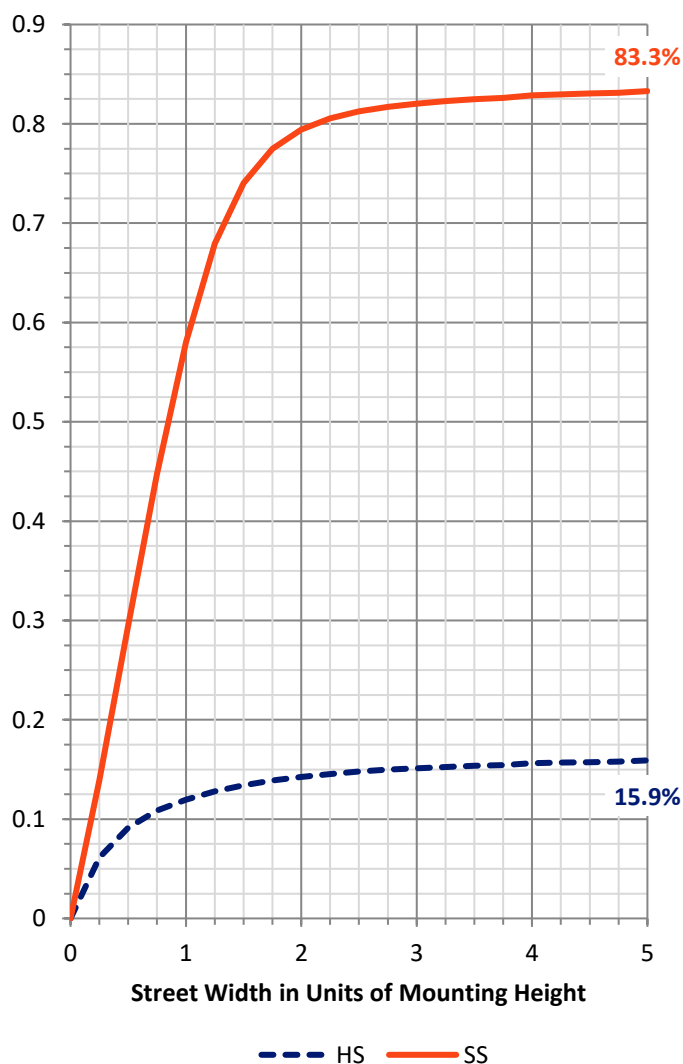
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5516.5 | 0.0 | 5516.5 |
| | % Fixture | 16.3 | 0.0 | 16.3 |
| Street Side | Lumens | 28273.4 | 0.0 | 28273.4 |
| | % Fixture | 83.7 | 0.0 | 83.7 |
| Total | Lumens | 33790.0 | 0.0 | 33790.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 439.1 | 1.3 |
| 10°-20° | 1492.2 | 4.4 |
| 20°-30° | 2669.8 | 7.9 |
| 30°-40° | 4318.7 | 12.8 |
| 40°-50° | 6247.7 | 18.5 |
| 50°-60° | 7150.8 | 21.2 |
| 60°-70° | 6578.0 | 19.5 |
| 70°-80° | 4067.7 | 12.0 |
| 80°-90° | 826.0 | 2.4 |
| 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° | 33790.0 | 100.0 |
| 0°-180° | 33790.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P400219

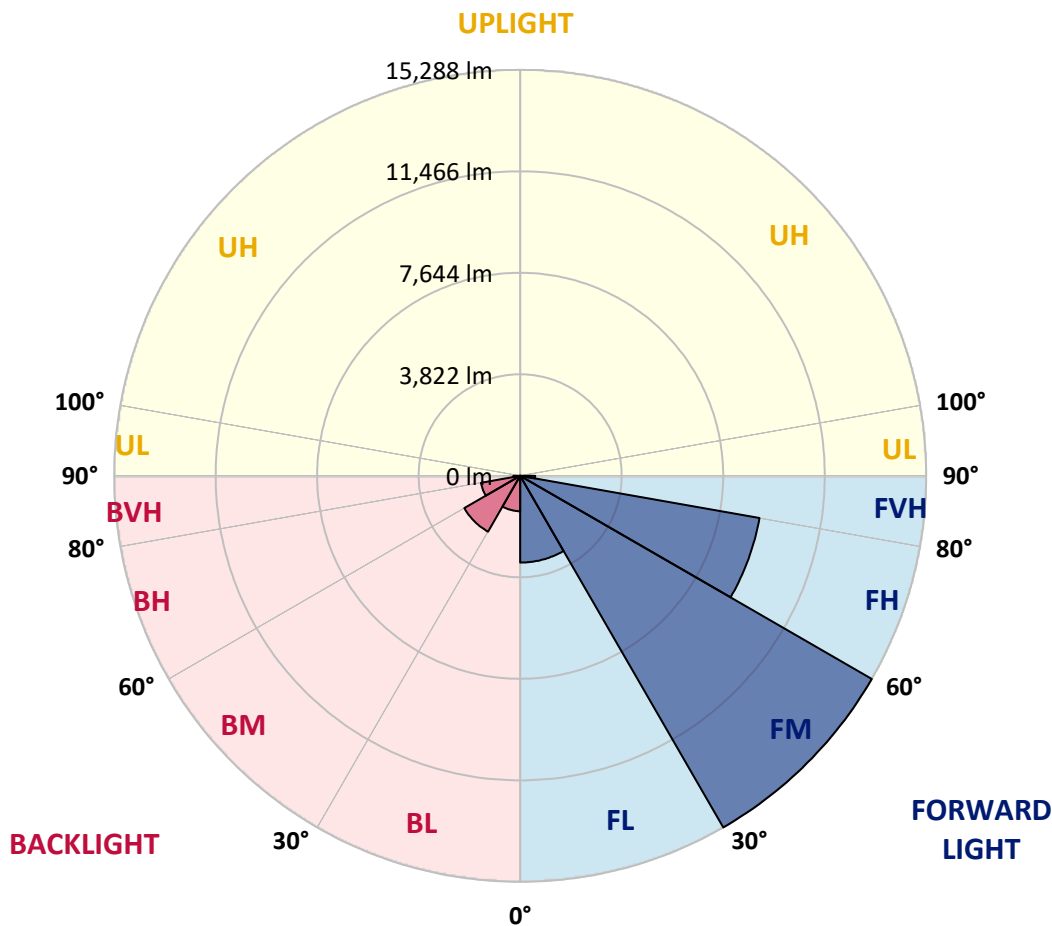
CATALOG NUMBER: ARCH-L-PA3-250-740-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3268.6 | 9.7 | | | |
| FM (30°-60°) | 15288.4 | 45.2 | | | |
| FH (60°-80°) | 9149.4 | 27.1 | | | G4/12000 |
| FVH (80°-90°) | 567.1 | 1.7 | | | G4/750 |
| BL (0°-30°) | 1332.4 | 3.9 | B3/2500 | | |
| BM (30°-60°) | 2428.9 | 7.2 | B2/2500 | | |
| BH (60°-80°) | 1496.3 | 4.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 259.0 | 0.8 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4225.6 | 4225.6 | 4225.6 | 4225.6 | 4225.6 | 4225.6 | 4225.6 | 4225.6 | 4225.6 | 4225.6 | 4225.6 |
| 2.5° | 5385.3 | 5345.3 | 5340.9 | 5278.6 | 5220.9 | 5065.4 | 4954.3 | 4758.8 | 4563.3 | 4558.8 | 4363.3 |
| 5° | 6225.1 | 6185.1 | 6162.9 | 6087.3 | 5989.6 | 5785.2 | 5585.2 | 5283.1 | 4949.8 | 4927.6 | 4558.8 |
| 7.5° | 6793.8 | 6758.3 | 6713.8 | 6682.7 | 6589.4 | 6407.2 | 6162.9 | 5803.0 | 5345.3 | 5300.9 | 4785.4 |
| 10° | 7175.9 | 7153.7 | 7144.8 | 7122.6 | 7064.9 | 6918.2 | 6682.7 | 6300.6 | 5740.8 | 5691.9 | 5025.4 |
| 12.5° | 7340.3 | 7331.5 | 7371.4 | 7433.7 | 7455.9 | 7398.1 | 7171.5 | 6811.6 | 6176.2 | 6122.9 | 5314.2 |
| 15° | 7149.3 | 7158.2 | 7260.4 | 7473.6 | 7700.2 | 7824.7 | 7691.4 | 7340.3 | 6669.4 | 6593.9 | 5651.9 |
| 17.5° | 7060.4 | 7073.7 | 7144.8 | 7349.2 | 7669.1 | 8055.7 | 8117.9 | 7842.4 | 7144.8 | 7038.2 | 6007.3 |
| 20° | 7215.9 | 7233.7 | 7287.0 | 7447.0 | 7669.1 | 8082.4 | 8406.7 | 8322.3 | 7611.4 | 7500.3 | 6349.5 |
| 22.5° | 7611.4 | 7633.6 | 7629.2 | 7731.4 | 7882.4 | 8166.8 | 8566.7 | 8775.5 | 8100.1 | 7975.7 | 6704.9 |
| 25° | 8455.6 | 8437.8 | 8286.8 | 8237.9 | 8277.9 | 8460.1 | 8780.0 | 9211.0 | 8611.1 | 8486.7 | 7078.2 |
| 27.5° | 9602.0 | 9579.8 | 9304.3 | 9055.5 | 8833.3 | 8913.3 | 9082.1 | 9562.0 | 9131.0 | 8988.8 | 7433.7 |
| 30° | 10828.3 | 10801.7 | 10481.8 | 10077.4 | 9584.2 | 9468.7 | 9446.5 | 9868.6 | 9655.3 | 9504.2 | 7811.3 |
| 32.5° | 12023.6 | 12001.4 | 11659.2 | 11188.2 | 10508.4 | 10161.8 | 9948.6 | 10210.7 | 10250.7 | 10104.1 | 8224.6 |
| 35° | 13112.2 | 13112.2 | 12818.9 | 12259.1 | 11490.4 | 10966.1 | 10615.1 | 10632.8 | 10935.0 | 10766.1 | 8695.5 |
| 37.5° | 14080.8 | 14076.4 | 13756.5 | 13205.5 | 12467.9 | 11868.1 | 11432.6 | 11143.8 | 11588.1 | 11441.5 | 9188.8 |
| 40° | 14849.5 | 14818.4 | 14582.9 | 14103.1 | 13361.0 | 12765.6 | 12325.7 | 11743.7 | 12316.8 | 12183.5 | 9713.1 |
| 42.5° | 15409.4 | 15391.6 | 15231.7 | 14814.0 | 14107.5 | 13547.6 | 13245.5 | 12499.0 | 13143.3 | 13010.0 | 10326.2 |
| 45° | 15627.1 | 15662.7 | 15662.7 | 15267.2 | 14707.3 | 14196.4 | 14063.1 | 13329.9 | 14036.4 | 13903.1 | 10983.9 |
| 47.5° | 15276.1 | 15369.4 | 15560.5 | 15587.1 | 15093.9 | 14747.3 | 14791.8 | 14165.3 | 14956.2 | 14885.1 | 11703.7 |
| 50° | 14178.6 | 14351.9 | 14769.5 | 15524.9 | 15249.4 | 15169.4 | 15413.8 | 15018.4 | 15942.6 | 15920.4 | 12579.0 |
| 52.5° | 11348.2 | 11770.3 | 13072.2 | 14427.4 | 15142.8 | 15365.0 | 16031.4 | 15978.1 | 17213.4 | 17248.9 | 13720.9 |
| 55° | 8704.4 | 8864.4 | 10370.7 | 12676.8 | 14489.6 | 15302.7 | 16444.7 | 16915.7 | 18590.8 | 18635.2 | 14769.5 |
| 57.5° | 7038.2 | 7144.8 | 7966.8 | 10370.7 | 13001.1 | 14965.1 | 16769.0 | 17462.2 | 19648.3 | 19763.8 | 15702.6 |
| 60° | 5576.3 | 5731.9 | 6282.8 | 7935.7 | 10917.2 | 14151.9 | 16995.6 | 18070.9 | 20785.8 | 20959.1 | 16817.9 |
| 62.5° | 4145.6 | 4221.1 | 4741.0 | 5878.5 | 8642.2 | 12690.1 | 16875.7 | 18733.0 | 22181.0 | 22389.8 | 18159.8 |
| 65° | 2950.4 | 3017.0 | 3385.8 | 4181.2 | 6389.5 | 10712.8 | 16178.1 | 19226.2 | 23931.6 | 24144.9 | 19510.6 |
| 67.5° | 2208.3 | 2235.0 | 2443.8 | 2923.7 | 4305.6 | 8322.3 | 14765.1 | 19141.8 | 25211.3 | 25402.4 | 20052.6 |
| 70° | 1746.2 | 1755.1 | 1857.3 | 2115.0 | 2799.3 | 5794.1 | 12290.2 | 17902.1 | 25304.6 | 25473.5 | 19368.4 |
| 72.5° | 1448.5 | 1444.1 | 1501.8 | 1626.3 | 1950.6 | 3665.7 | 9104.3 | 15600.4 | 24104.9 | 24220.5 | 17457.7 |
| 75° | 1195.2 | 1204.1 | 1244.1 | 1315.2 | 1488.5 | 2417.2 | 5900.7 | 12445.7 | 21265.7 | 21141.3 | 14649.6 |
| 77.5° | 1004.2 | 999.7 | 1017.5 | 1079.7 | 1204.1 | 1737.3 | 3456.9 | 8993.3 | 15760.4 | 15698.2 | 9615.3 |
| 80° | 808.7 | 817.6 | 844.2 | 897.5 | 1013.1 | 1324.1 | 2043.9 | 5611.9 | 8455.6 | 8229.0 | 4594.4 |
| 82.5° | 542.1 | 626.5 | 679.8 | 742.0 | 875.3 | 977.5 | 1297.4 | 2852.6 | 3781.3 | 3723.5 | 2083.9 |
| 85° | 257.7 | 342.1 | 506.5 | 577.6 | 710.9 | 613.2 | 879.8 | 1359.7 | 1892.8 | 1870.6 | 750.9 |
| 87.5° | 53.3 | 53.3 | 271.0 | 324.4 | 439.9 | 262.2 | 488.8 | 591.0 | 915.3 | 857.6 | 306.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P400219

CATALOG NUMBER: ARCH-L-PA3-250-740-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4225.6 | 4225.6 | 4225.6 | 4225.6 | 4225.6 | 4225.6 | 4225.6 | 4225.6 | 4225.6 | 4225.6 | 4225.6 |
| 2.5° | 4247.8 | 4127.8 | 3887.9 | 3696.8 | 3501.3 | 3390.2 | 3252.5 | 3185.9 | 3172.5 | 3137.0 | 3163.6 |
| 5° | 4323.3 | 4087.8 | 3634.6 | 3336.9 | 3137.0 | 3039.2 | 2990.3 | 2972.6 | 2968.1 | 2959.2 | 2959.2 |
| 7.5° | 4425.5 | 4065.6 | 3474.7 | 3172.5 | 3043.7 | 3012.6 | 3025.9 | 3052.6 | 3057.0 | 3065.9 | 3061.4 |
| 10° | 4549.9 | 4070.1 | 3385.8 | 3132.5 | 3070.3 | 3074.8 | 3119.2 | 3154.7 | 3172.5 | 3185.9 | 3181.4 |
| 12.5° | 4723.2 | 4123.4 | 3372.5 | 3159.2 | 3132.5 | 3150.3 | 3194.7 | 3230.3 | 3248.1 | 3252.5 | 3252.5 |
| 15° | 4949.8 | 4234.5 | 3403.6 | 3217.0 | 3194.7 | 3208.1 | 3234.7 | 3248.1 | 3252.5 | 3248.1 | 3248.1 |
| 17.5° | 5198.7 | 4367.8 | 3448.0 | 3252.5 | 3217.0 | 3203.6 | 3194.7 | 3181.4 | 3154.7 | 3137.0 | 3137.0 |
| 20° | 5438.6 | 4487.7 | 3470.2 | 3248.1 | 3185.9 | 3132.5 | 3079.2 | 3012.6 | 2968.1 | 2932.6 | 2932.6 |
| 22.5° | 5678.5 | 4598.8 | 3470.2 | 3199.2 | 3101.4 | 2999.2 | 2888.1 | 2781.5 | 2714.9 | 2670.4 | 2670.4 |
| 25° | 5931.8 | 4705.5 | 3443.6 | 3114.8 | 2968.1 | 2821.5 | 2670.4 | 2537.1 | 2470.5 | 2426.0 | 2417.2 |
| 27.5° | 6145.1 | 4767.7 | 3372.5 | 2994.8 | 2803.7 | 2617.1 | 2443.8 | 2306.1 | 2257.2 | 2217.2 | 2217.2 |
| 30° | 6371.7 | 4807.7 | 3239.2 | 2839.3 | 2617.1 | 2403.8 | 2226.1 | 2115.0 | 2061.7 | 2003.9 | 1999.5 |
| 32.5° | 6625.0 | 4834.3 | 3088.1 | 2674.9 | 2426.0 | 2199.4 | 2048.4 | 1959.5 | 1844.0 | 1781.8 | 1772.9 |
| 35° | 6918.2 | 4869.9 | 2928.1 | 2488.3 | 2235.0 | 2030.6 | 1941.7 | 1795.1 | 1684.0 | 1630.7 | 1626.3 |
| 37.5° | 7229.3 | 4896.5 | 2754.8 | 2323.8 | 2061.7 | 1919.5 | 1830.6 | 1657.4 | 1559.6 | 1479.6 | 1470.7 |
| 40° | 7558.1 | 4896.5 | 2577.1 | 2163.9 | 1924.0 | 1870.6 | 1701.8 | 1546.3 | 1381.9 | 1341.9 | 1333.0 |
| 42.5° | 7922.4 | 4887.6 | 2399.4 | 2008.4 | 1795.1 | 1759.5 | 1626.3 | 1461.8 | 1377.4 | 1341.9 | 1333.0 |
| 45° | 8309.0 | 4856.5 | 2230.5 | 1830.6 | 1661.8 | 1590.7 | 1488.5 | 1444.1 | 1408.5 | 1408.5 | 1408.5 |
| 47.5° | 8748.9 | 4829.9 | 2039.5 | 1670.7 | 1564.0 | 1484.1 | 1408.5 | 1381.9 | 1377.4 | 1390.8 | 1404.1 |
| 50° | 9313.2 | 4821.0 | 1879.5 | 1555.2 | 1488.5 | 1395.2 | 1386.3 | 1364.1 | 1368.5 | 1368.5 | 1368.5 |
| 52.5° | 9997.4 | 4741.0 | 1728.4 | 1470.7 | 1413.0 | 1301.9 | 1328.5 | 1350.8 | 1359.7 | 1355.2 | 1350.8 |
| 55° | 10499.5 | 4598.8 | 1599.6 | 1413.0 | 1359.7 | 1266.3 | 1301.9 | 1337.4 | 1346.3 | 1333.0 | 1333.0 |
| 57.5° | 10952.7 | 4398.9 | 1497.4 | 1368.5 | 1324.1 | 1244.1 | 1284.1 | 1319.7 | 1310.8 | 1306.3 | 1301.9 |
| 60° | 11472.6 | 4207.8 | 1417.4 | 1346.3 | 1288.6 | 1235.2 | 1270.8 | 1293.0 | 1279.7 | 1270.8 | 1266.3 |
| 62.5° | 12036.9 | 4021.2 | 1359.7 | 1346.3 | 1261.9 | 1230.8 | 1257.5 | 1266.3 | 1239.7 | 1230.8 | 1230.8 |
| 65° | 12299.1 | 3727.9 | 1297.4 | 1346.3 | 1248.6 | 1221.9 | 1230.8 | 1221.9 | 1195.2 | 1195.2 | 1190.8 |
| 67.5° | 11868.1 | 3243.6 | 1217.5 | 1328.5 | 1266.3 | 1208.6 | 1190.8 | 1177.5 | 1146.4 | 1146.4 | 1137.5 |
| 70° | 10677.3 | 2666.0 | 1101.9 | 1270.8 | 1270.8 | 1204.1 | 1137.5 | 1106.4 | 1070.8 | 1084.2 | 1066.4 |
| 72.5° | 9122.1 | 2115.0 | 959.8 | 1173.0 | 1244.1 | 1199.7 | 1079.7 | 1030.8 | 999.7 | 1013.1 | 986.4 |
| 75° | 7389.2 | 1639.6 | 790.9 | 1017.5 | 1177.5 | 1177.5 | 1022.0 | 955.3 | 919.8 | 919.8 | 888.7 |
| 77.5° | 4709.9 | 1213.0 | 644.3 | 844.2 | 1057.5 | 1146.4 | 973.1 | 870.9 | 817.6 | 804.2 | 782.0 |
| 80° | 2332.7 | 853.1 | 528.8 | 670.9 | 902.0 | 1075.3 | 937.5 | 773.1 | 697.6 | 670.9 | 630.9 |
| 82.5° | 1239.7 | 591.0 | 422.1 | 524.3 | 719.8 | 968.6 | 893.1 | 666.5 | 573.2 | 533.2 | 488.8 |
| 85° | 555.4 | 364.4 | 337.7 | 399.9 | 546.5 | 795.4 | 804.2 | 546.5 | 439.9 | 524.3 | 386.6 |
| 87.5° | 204.4 | 164.4 | 164.4 | 204.4 | 315.5 | 333.2 | 568.7 | 351.0 | 279.9 | 191.1 | 151.1 |
| 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)