

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: P399726

Luminaire Tested: **ARCH-L-PA3-180-750-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-180-750-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26662 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

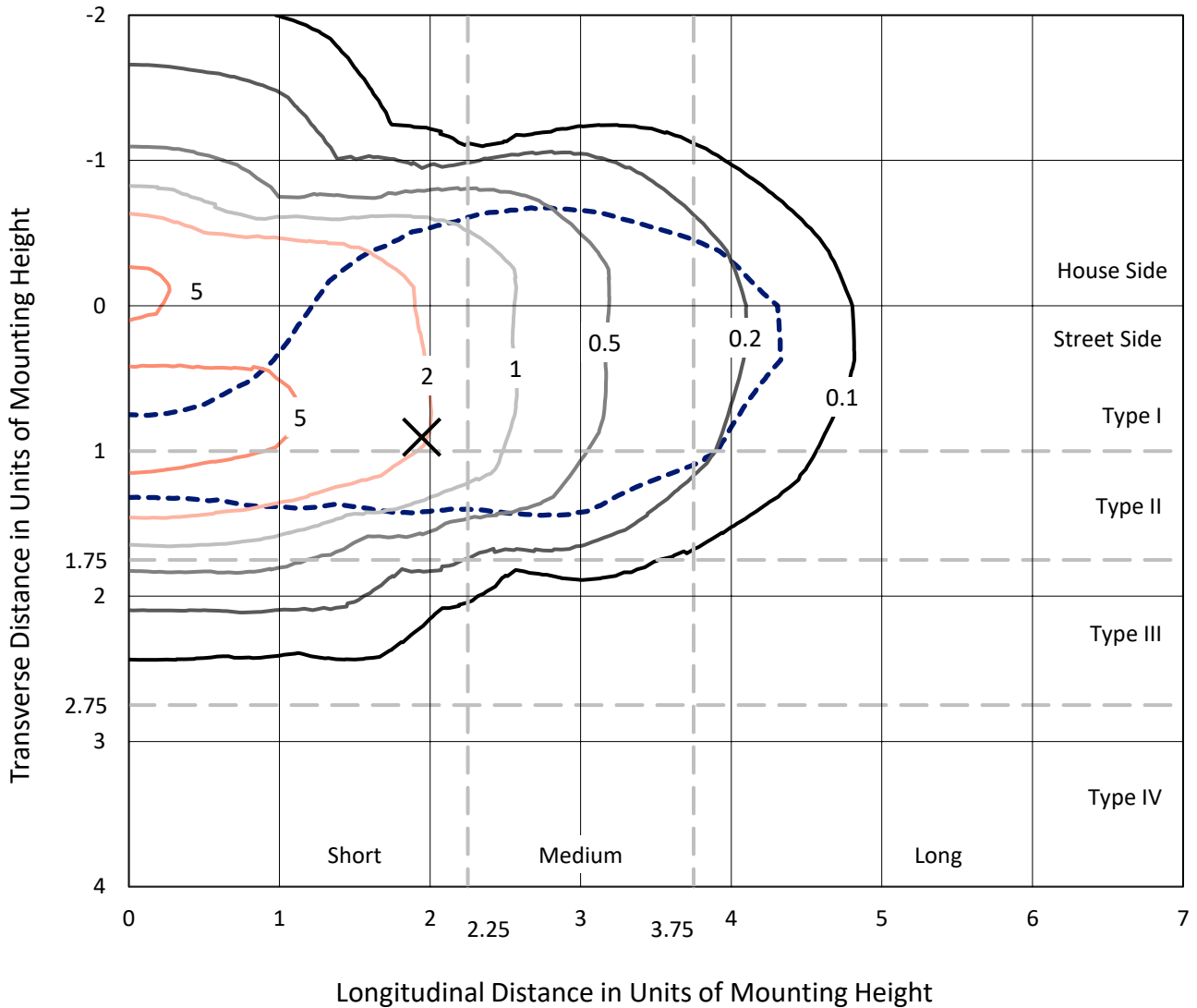
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

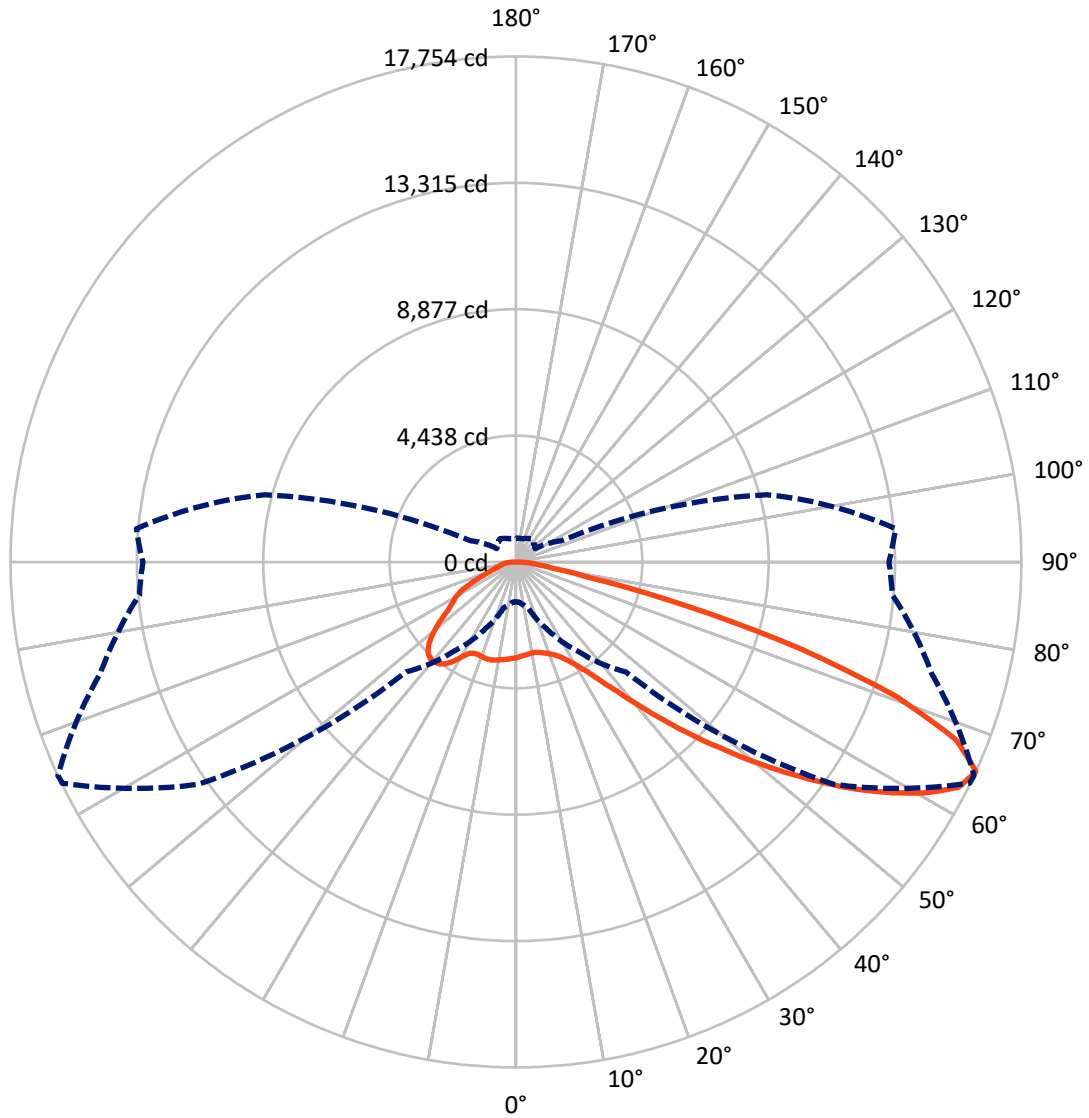
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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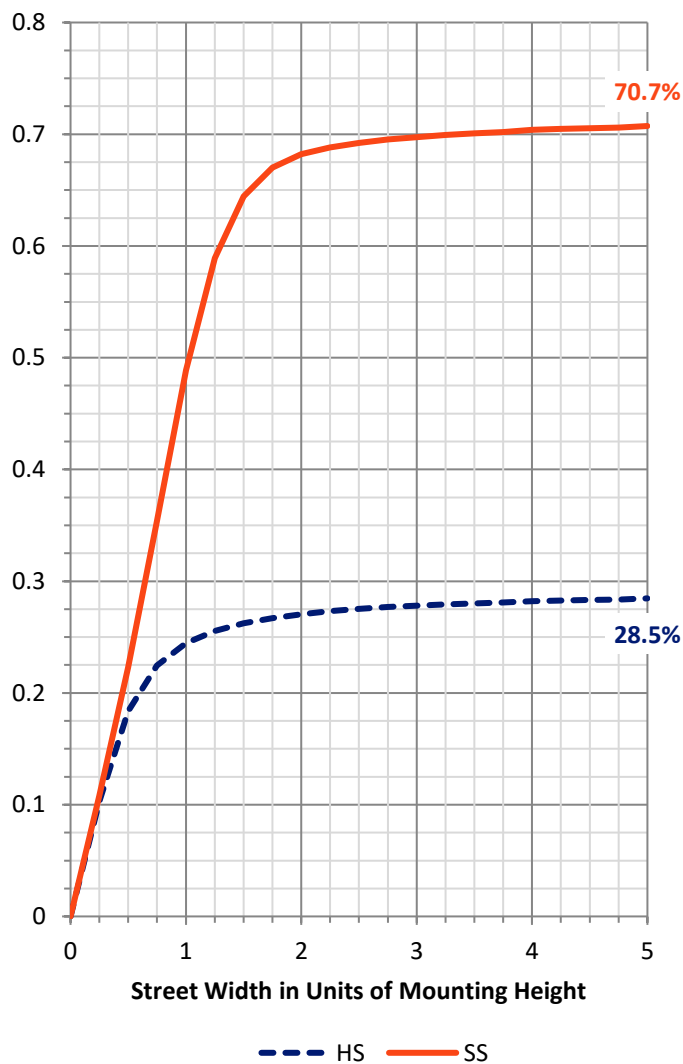
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7708.4 | 0.0 | 7708.4 |
| | % Fixture | 28.9 | 0.0 | 28.9 |
| Street Side | Lumens | 18953.6 | 0.0 | 18953.6 |
| | % Fixture | 71.1 | 0.0 | 71.1 |
| Total | Lumens | 26662.0 | 0.0 | 26662.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 321.0 | 1.2 |
| 10°-20° | 958.3 | 3.6 |
| 20°-30° | 1702.2 | 6.4 |
| 30°-40° | 2879.7 | 10.8 |
| 40°-50° | 5013.0 | 18.8 |
| 50°-60° | 6478.4 | 24.3 |
| 60°-70° | 5668.9 | 21.3 |
| 70°-80° | 3083.5 | 11.6 |
| 80°-90° | 557.1 | 2.1 |
| 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° | 26662.0 | 100.0 |
| 0°-180° | 26662.0 | 100.0 |

Coefficient of Utilization



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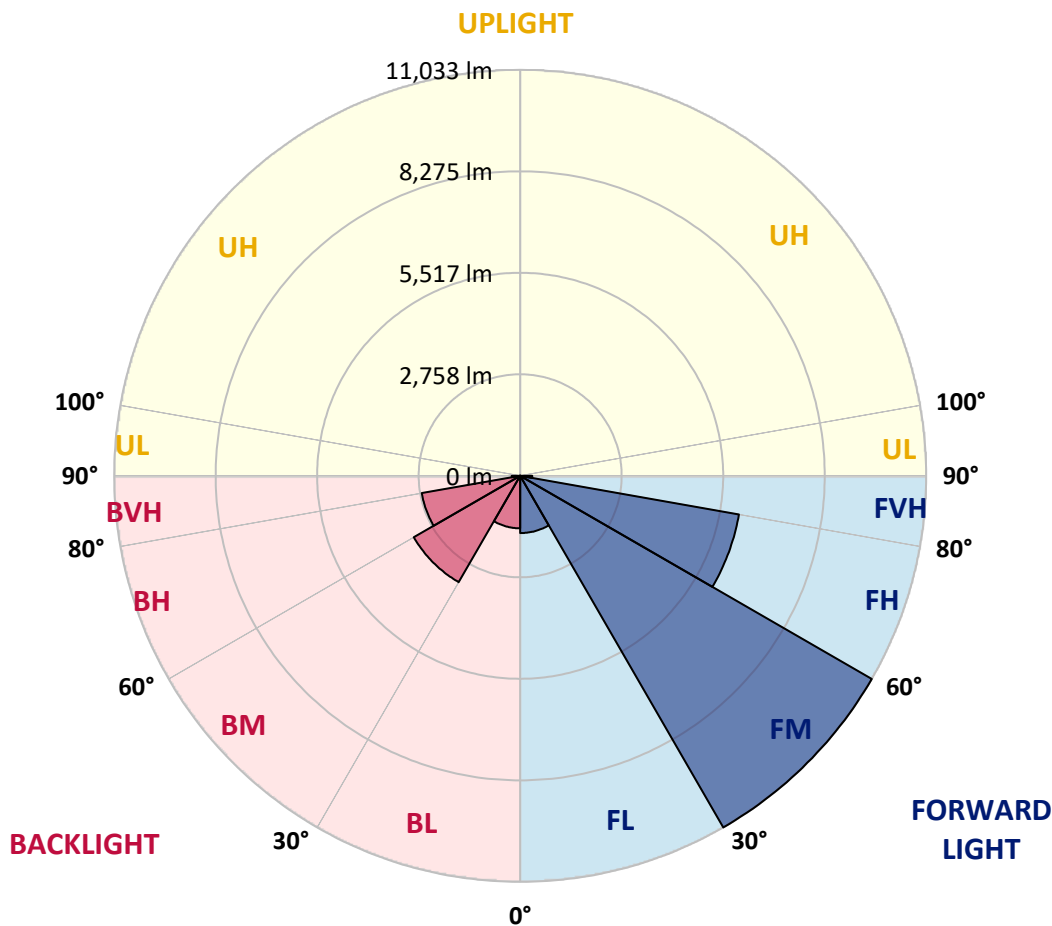
CATALOG NUMBER: ARCH-L-PA3-180-750-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1555.7 | 5.8 | | | |
| FM (30°-60°) | 11033.5 | 41.4 | | | |
| FH (60°-80°) | 6036.7 | 22.6 | | | G3/7500 |
| FVH (80°-90°) | 327.8 | 1.2 | | | G3/500 |
| BL (0°-30°) | 1425.8 | 5.3 | B3/2500 | | |
| BM (30°-60°) | 3337.6 | 12.5 | B3/5000 | | |
| BH (60°-80°) | 2715.8 | 10.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 229.3 | 0.9 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 |
| 2.5° | 3309.3 | 3305.8 | 3298.8 | 3305.8 | 3309.3 | 3316.4 | 3312.9 | 3319.9 | 3316.4 | 3326.9 | 3344.4 |
| 5° | 3225.1 | 3218.1 | 3214.6 | 3232.1 | 3242.7 | 3260.2 | 3267.2 | 3291.8 | 3288.3 | 3305.8 | 3333.9 |
| 7.5° | 3130.4 | 3130.4 | 3126.9 | 3147.9 | 3161.9 | 3193.5 | 3218.1 | 3260.2 | 3263.7 | 3295.3 | 3326.9 |
| 10° | 3056.7 | 3060.2 | 3056.7 | 3074.2 | 3095.3 | 3133.9 | 3176.0 | 3235.6 | 3239.2 | 3284.8 | 3316.4 |
| 12.5° | 3028.6 | 3028.6 | 3028.6 | 3053.2 | 3081.2 | 3133.9 | 3183.0 | 3246.2 | 3253.2 | 3302.3 | 3330.4 |
| 15° | 3067.2 | 3070.7 | 3063.7 | 3088.3 | 3119.8 | 3183.0 | 3228.6 | 3295.3 | 3302.3 | 3347.9 | 3365.5 |
| 17.5° | 3204.1 | 3218.1 | 3200.6 | 3214.6 | 3207.6 | 3256.7 | 3298.8 | 3365.5 | 3369.0 | 3407.6 | 3414.6 |
| 20° | 3474.3 | 3488.3 | 3460.2 | 3442.7 | 3379.5 | 3376.0 | 3393.6 | 3446.2 | 3446.2 | 3470.8 | 3453.2 |
| 22.5° | 3891.9 | 3905.9 | 3856.8 | 3790.1 | 3639.2 | 3565.5 | 3526.9 | 3551.5 | 3548.0 | 3558.5 | 3512.9 |
| 25° | 4446.4 | 4442.9 | 4383.2 | 4260.4 | 4018.2 | 3839.3 | 3744.5 | 3705.9 | 3705.9 | 3684.8 | 3628.7 |
| 27.5° | 5134.2 | 5081.6 | 4976.3 | 4828.9 | 4492.0 | 4242.8 | 4039.3 | 3941.0 | 3923.5 | 3860.3 | 3755.0 |
| 30° | 5867.7 | 5829.1 | 5678.2 | 5464.1 | 5074.6 | 4755.2 | 4418.3 | 4221.8 | 4211.3 | 4074.4 | 3916.5 |
| 32.5° | 6731.0 | 6667.8 | 6499.4 | 6243.2 | 5776.4 | 5327.2 | 4906.1 | 4607.8 | 4590.3 | 4372.7 | 4155.1 |
| 35° | 7839.9 | 7787.3 | 7460.9 | 7204.7 | 6604.6 | 6015.1 | 5516.7 | 5120.2 | 5106.1 | 4839.4 | 4562.2 |
| 37.5° | 9170.0 | 9033.1 | 8717.3 | 8236.5 | 7604.8 | 6906.5 | 6274.8 | 5776.4 | 5758.9 | 5464.1 | 5113.2 |
| 40° | 10356.2 | 10233.3 | 9952.6 | 9510.4 | 8833.1 | 8057.5 | 7201.2 | 6597.6 | 6580.1 | 6222.1 | 5779.9 |
| 42.5° | 11233.5 | 11149.3 | 10966.8 | 10710.6 | 10226.3 | 9756.1 | 8383.9 | 7590.8 | 7559.2 | 7096.0 | 6545.0 |
| 45° | 11742.4 | 11675.7 | 11570.4 | 11633.6 | 11626.6 | 11538.8 | 9794.7 | 8773.4 | 8671.7 | 8071.6 | 7397.8 |
| 47.5° | 11619.5 | 11559.9 | 11602.0 | 12093.3 | 12770.6 | 13279.5 | 11437.1 | 9984.2 | 9847.3 | 9064.7 | 8306.7 |
| 50° | 10731.7 | 10756.2 | 10977.3 | 11917.8 | 13437.4 | 14567.4 | 13258.4 | 11363.4 | 11180.9 | 10064.9 | 9170.0 |
| 52.5° | 9113.8 | 9173.5 | 9710.4 | 11026.5 | 13363.7 | 15402.6 | 14904.3 | 12788.2 | 12546.0 | 11040.5 | 9956.1 |
| 55° | 7239.8 | 7390.7 | 8085.6 | 9468.3 | 12402.1 | 15462.3 | 16146.6 | 14220.0 | 13953.3 | 11956.4 | 10640.4 |
| 57.5° | 5355.3 | 5579.9 | 6383.6 | 7653.9 | 10559.7 | 14518.3 | 16767.8 | 15588.6 | 15265.8 | 12865.4 | 11363.4 |
| 60° | 3397.1 | 3533.9 | 4460.4 | 5958.9 | 8082.1 | 12209.1 | 16687.1 | 16753.8 | 16473.0 | 13770.8 | 12117.9 |
| 62.5° | 2168.8 | 2235.5 | 2702.2 | 4249.9 | 5650.1 | 9040.2 | 15806.2 | 17634.6 | 17445.1 | 14595.5 | 12833.8 |
| 65° | 1393.2 | 1421.3 | 1659.9 | 2614.5 | 3846.3 | 5457.1 | 13612.9 | 17729.4 | 17753.9 | 15111.4 | 13276.0 |
| 67.5° | 1133.5 | 1147.6 | 1235.3 | 1614.3 | 2719.8 | 3014.6 | 9482.3 | 16381.8 | 16680.1 | 14978.0 | 13125.1 |
| 70° | 1031.8 | 1049.3 | 1140.5 | 1287.9 | 2105.6 | 2081.1 | 4590.3 | 13707.6 | 14195.4 | 14209.5 | 12454.8 |
| 72.5° | 870.3 | 894.9 | 1017.7 | 1217.8 | 1628.4 | 1642.4 | 1944.2 | 9763.1 | 10482.5 | 12700.4 | 11447.6 |
| 75° | 726.4 | 740.5 | 845.8 | 1073.9 | 1379.2 | 1312.5 | 1365.1 | 5176.3 | 6215.1 | 10184.2 | 10377.2 |
| 77.5° | 589.6 | 603.6 | 680.8 | 856.3 | 1224.8 | 1021.2 | 1073.9 | 2144.2 | 2649.6 | 6913.5 | 8482.2 |
| 80° | 421.1 | 435.2 | 522.9 | 666.8 | 926.5 | 919.5 | 796.6 | 1182.7 | 1284.4 | 3737.5 | 5509.7 |
| 82.5° | 301.8 | 312.3 | 396.6 | 477.3 | 642.2 | 923.0 | 600.1 | 803.6 | 842.3 | 1656.4 | 2221.4 |
| 85° | 203.5 | 203.5 | 273.7 | 315.8 | 414.1 | 582.6 | 484.3 | 544.0 | 568.5 | 786.1 | 600.1 |
| 87.5° | 87.7 | 87.7 | 147.4 | 161.4 | 217.6 | 270.2 | 361.5 | 273.7 | 280.8 | 424.6 | 245.7 |
| 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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CATALOG NUMBER: ARCH-L-PA3-180-750-U-T2U

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 |
| 2.5° | 3355.0 | 3358.5 | 3365.5 | 3386.5 | 3400.6 | 3421.6 | 3432.2 | 3446.2 | 3446.2 | 3439.2 | 3442.7 |
| 5° | 3347.9 | 3358.5 | 3383.0 | 3421.6 | 3446.2 | 3484.8 | 3512.9 | 3533.9 | 3541.0 | 3533.9 | 3537.5 |
| 7.5° | 3344.4 | 3362.0 | 3404.1 | 3460.2 | 3495.3 | 3544.5 | 3583.1 | 3607.6 | 3625.2 | 3618.2 | 3621.7 |
| 10° | 3333.9 | 3362.0 | 3414.6 | 3484.8 | 3537.5 | 3586.6 | 3621.7 | 3632.2 | 3642.7 | 3635.7 | 3632.2 |
| 12.5° | 3347.9 | 3379.5 | 3435.7 | 3519.9 | 3579.6 | 3618.2 | 3628.7 | 3611.1 | 3586.6 | 3572.5 | 3569.0 |
| 15° | 3376.0 | 3407.6 | 3463.8 | 3551.5 | 3604.1 | 3618.2 | 3593.6 | 3537.5 | 3481.3 | 3449.7 | 3446.2 |
| 17.5° | 3414.6 | 3435.7 | 3481.3 | 3558.5 | 3600.6 | 3583.1 | 3533.9 | 3467.3 | 3425.2 | 3400.6 | 3404.1 |
| 20° | 3439.2 | 3439.2 | 3474.3 | 3533.9 | 3569.0 | 3555.0 | 3495.3 | 3421.6 | 3355.0 | 3323.4 | 3312.9 |
| 22.5° | 3474.3 | 3456.7 | 3460.2 | 3512.9 | 3562.0 | 3541.0 | 3414.6 | 3284.8 | 3190.0 | 3154.9 | 3151.4 |
| 25° | 3569.0 | 3519.9 | 3488.3 | 3519.9 | 3635.7 | 3463.8 | 3211.1 | 3060.2 | 2972.4 | 2940.9 | 2944.4 |
| 27.5° | 3684.8 | 3618.2 | 3551.5 | 3604.1 | 3695.4 | 3288.3 | 2951.4 | 2779.4 | 2726.8 | 2702.2 | 2712.7 |
| 30° | 3800.7 | 3712.9 | 3625.2 | 3814.7 | 3653.3 | 3014.6 | 2618.0 | 2449.5 | 2403.9 | 2386.4 | 2400.4 |
| 32.5° | 4014.7 | 3870.8 | 3765.6 | 4095.4 | 3523.4 | 2702.2 | 2256.5 | 2102.1 | 2060.0 | 2038.9 | 2031.9 |
| 35° | 4372.7 | 4190.2 | 4084.9 | 4341.1 | 3340.9 | 2354.8 | 1926.6 | 1817.9 | 1772.2 | 1726.6 | 1719.6 |
| 37.5° | 4888.6 | 4667.5 | 4572.7 | 4481.5 | 3084.7 | 2010.9 | 1674.0 | 1600.3 | 1533.6 | 1463.4 | 1459.9 |
| 40° | 5506.2 | 5218.4 | 5148.3 | 4544.6 | 2730.3 | 1688.0 | 1498.5 | 1428.3 | 1344.1 | 1277.4 | 1280.9 |
| 42.5° | 6218.6 | 5850.1 | 5699.2 | 4527.1 | 2291.6 | 1516.1 | 1372.2 | 1295.0 | 1221.3 | 1161.6 | 1158.1 |
| 45° | 6980.1 | 6562.5 | 6215.1 | 4404.3 | 1856.5 | 1396.7 | 1295.0 | 1203.7 | 1130.0 | 1063.3 | 1056.3 |
| 47.5° | 7822.4 | 7355.7 | 6692.4 | 4165.6 | 1533.6 | 1312.5 | 1249.3 | 1119.5 | 1052.8 | 1010.7 | 1010.7 |
| 50° | 8671.7 | 8113.7 | 7131.1 | 3804.2 | 1344.1 | 1249.3 | 1182.7 | 1073.9 | 1021.2 | 986.1 | 986.1 |
| 52.5° | 9398.1 | 8903.3 | 7492.5 | 3372.5 | 1224.8 | 1196.7 | 1137.0 | 1052.8 | 996.7 | 965.1 | 961.6 |
| 55° | 10103.5 | 9636.7 | 7815.4 | 2944.4 | 1126.5 | 1126.5 | 1126.5 | 1035.3 | 972.1 | 944.0 | 940.5 |
| 57.5° | 10805.4 | 10408.8 | 8152.3 | 2663.6 | 1038.8 | 1066.9 | 1105.5 | 1014.2 | 951.0 | 926.5 | 923.0 |
| 60° | 11598.5 | 11335.3 | 8541.8 | 2467.1 | 961.6 | 1003.7 | 1077.4 | 989.6 | 915.9 | 894.9 | 891.4 |
| 62.5° | 12440.7 | 12440.7 | 8896.3 | 2189.9 | 891.4 | 951.0 | 1035.3 | 958.1 | 884.4 | 866.8 | 863.3 |
| 65° | 13100.5 | 13384.8 | 9124.4 | 1775.7 | 821.2 | 898.4 | 986.1 | 915.9 | 842.3 | 838.7 | 831.7 |
| 67.5° | 13177.7 | 13623.4 | 8980.5 | 1340.6 | 758.0 | 842.3 | 937.0 | 870.3 | 800.1 | 800.1 | 789.6 |
| 70° | 12623.2 | 13075.9 | 8531.3 | 1003.7 | 712.4 | 786.1 | 873.8 | 814.2 | 747.5 | 754.5 | 737.0 |
| 72.5° | 11696.7 | 11809.0 | 7415.3 | 793.1 | 659.8 | 726.4 | 796.6 | 751.0 | 691.3 | 691.3 | 666.8 |
| 75° | 10475.5 | 9850.8 | 5386.9 | 663.3 | 596.6 | 656.3 | 719.4 | 680.8 | 628.2 | 610.6 | 596.6 |
| 77.5° | 8338.3 | 7138.1 | 3130.4 | 572.0 | 544.0 | 589.6 | 631.7 | 603.6 | 558.0 | 519.4 | 519.4 |
| 80° | 5081.6 | 4183.2 | 1382.7 | 494.8 | 480.8 | 515.9 | 544.0 | 512.4 | 473.8 | 435.2 | 424.6 |
| 82.5° | 1933.7 | 1614.3 | 670.3 | 424.6 | 421.1 | 442.2 | 463.2 | 431.7 | 403.6 | 386.0 | 333.4 |
| 85° | 529.9 | 487.8 | 459.7 | 354.4 | 347.4 | 343.9 | 368.5 | 354.4 | 315.8 | 259.7 | 231.6 |
| 87.5° | 200.0 | 228.1 | 249.2 | 217.6 | 231.6 | 214.1 | 245.7 | 224.6 | 200.0 | 129.8 | 115.8 |
| 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)