

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: P400408

Luminaire Tested: **ARCH-L-PA3-280-722-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400408
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-PA3-280-722-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26514 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

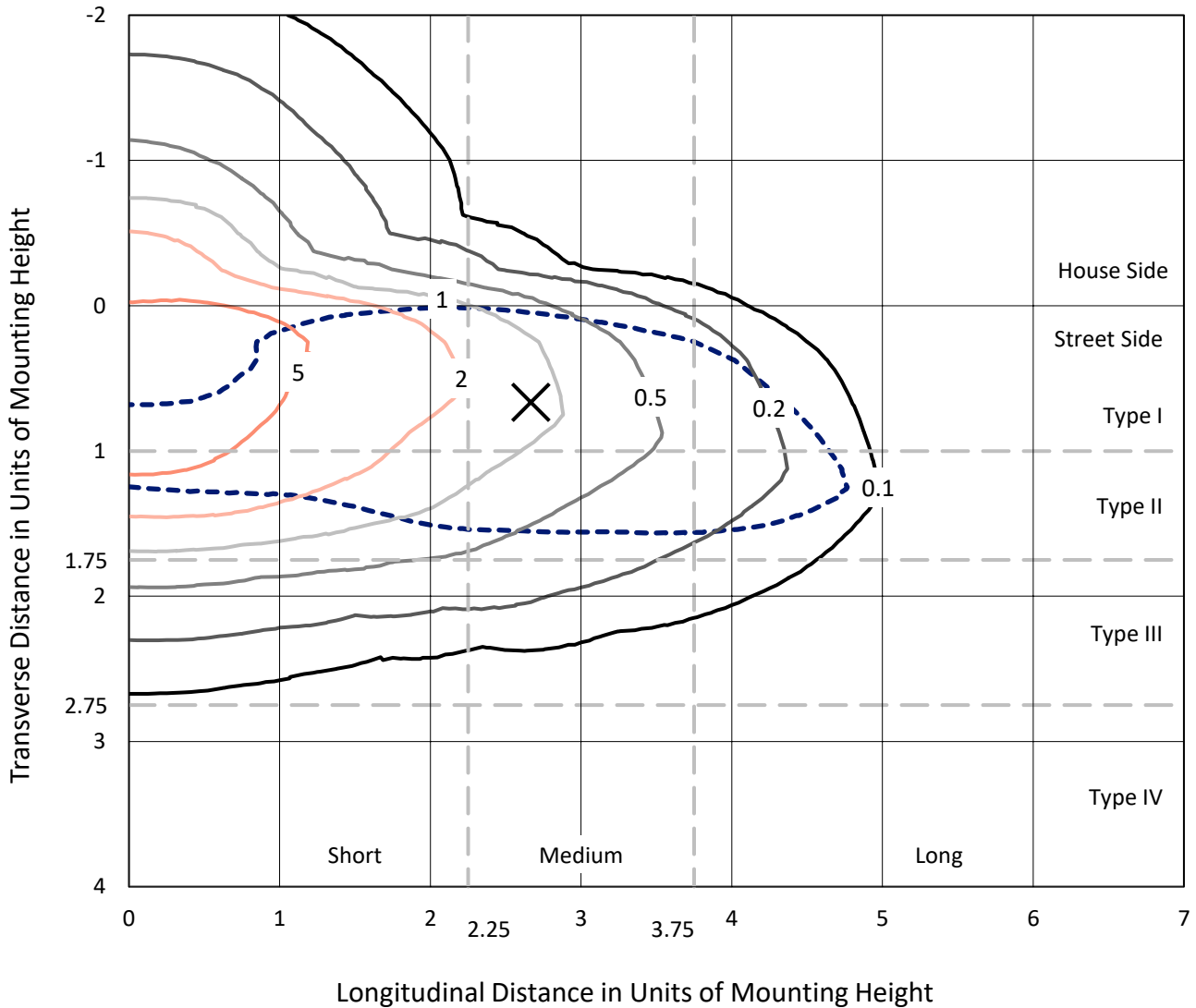
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

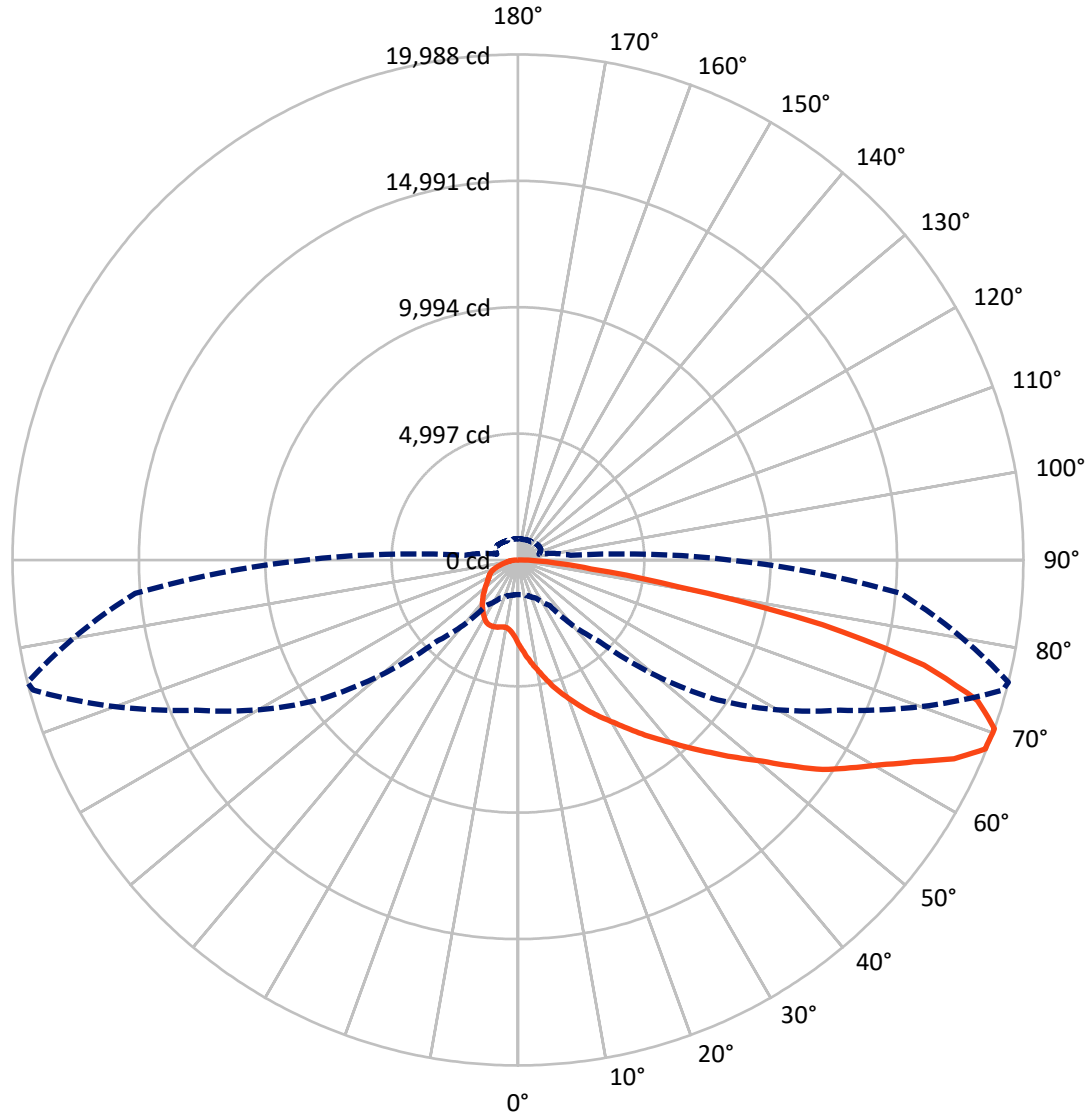
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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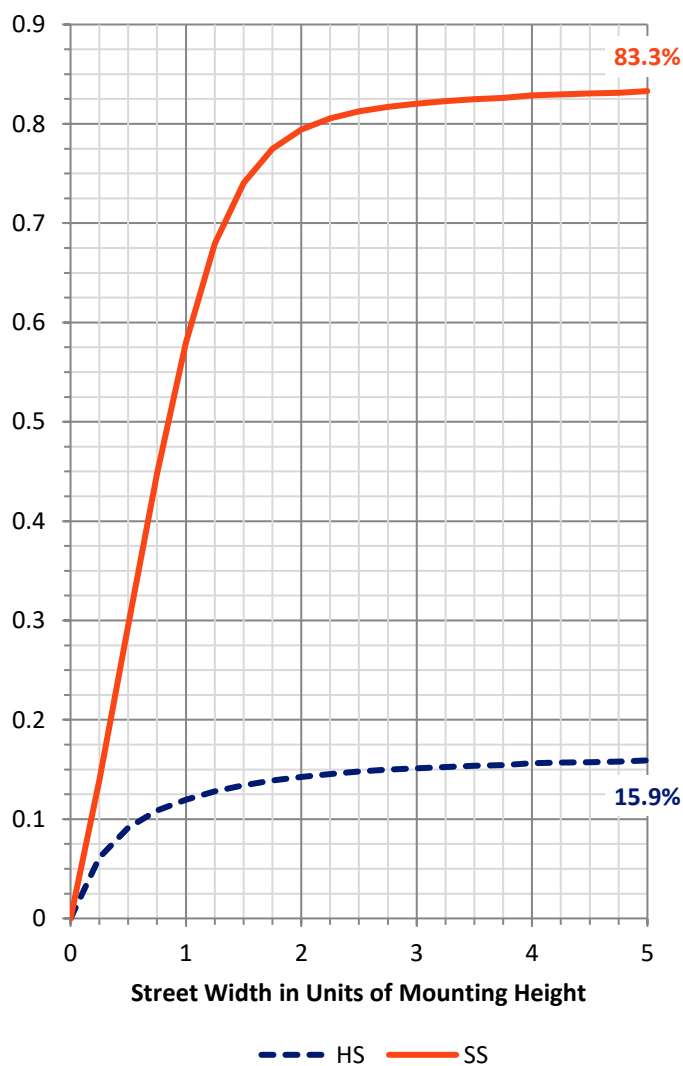
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4328.7 | 0.0 | 4328.7 |
| | % Fixture | 16.3 | 0.0 | 16.3 |
| Street Side | Lumens | 22185.3 | 0.0 | 22185.3 |
| | % Fixture | 83.7 | 0.0 | 83.7 |
| Total | Lumens | 26514.0 | 0.0 | 26514.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 344.5 | 1.3 |
| 10°-20° | 1170.9 | 4.4 |
| 20°-30° | 2094.9 | 7.9 |
| 30°-40° | 3388.8 | 12.8 |
| 40°-50° | 4902.4 | 18.5 |
| 50°-60° | 5611.1 | 21.2 |
| 60°-70° | 5161.5 | 19.5 |
| 70°-80° | 3191.8 | 12.0 |
| 80°-90° | 648.1 | 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° | 26514.0 | 100.0 |
| 0°-180° | 26514.0 | 100.0 |

Coefficient of Utilization



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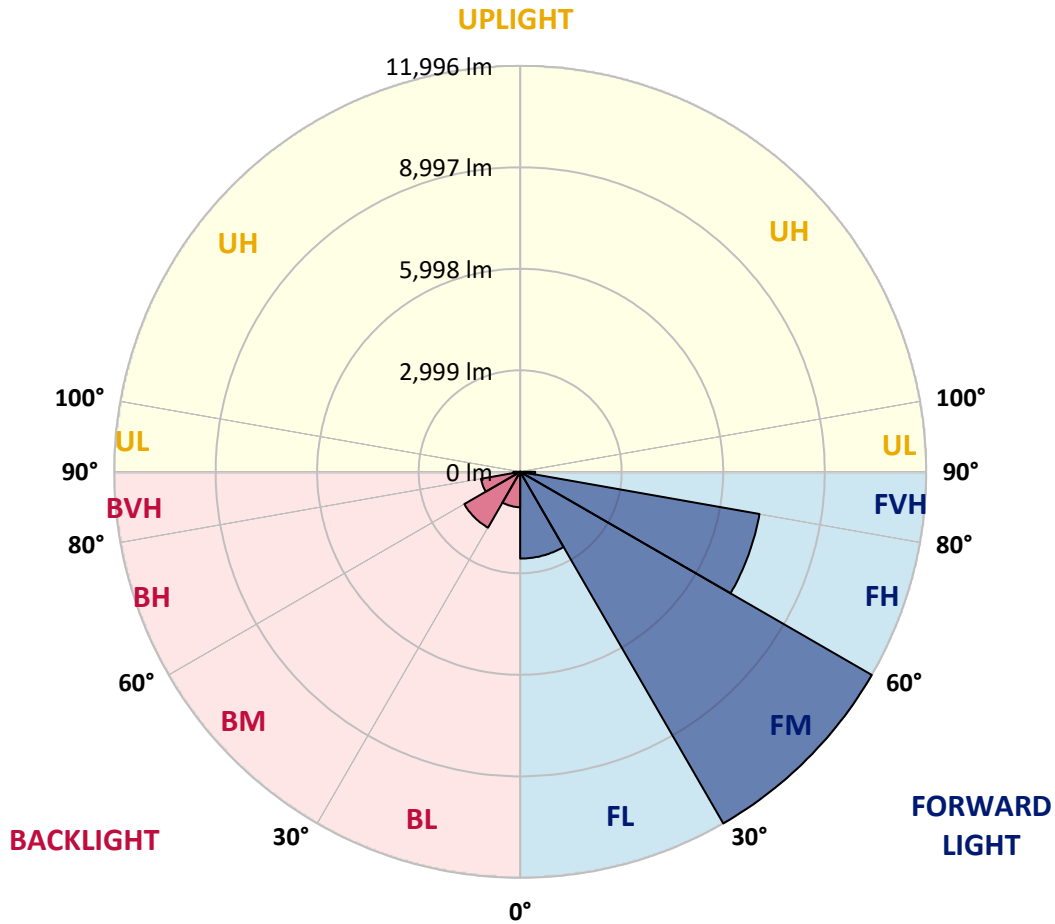
CATALOG NUMBER: ARCH-L-PA3-280-722-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2564.8 | 9.7 | | | |
| FM (30°-60°) | 11996.3 | 45.2 | | | |
| FH (60°-80°) | 7179.3 | 27.1 | | | G3/7500 |
| FVH (80°-90°) | 444.9 | 1.7 | | | G3/500 |
| BL (0°-30°) | 1045.5 | 3.9 | B3/2500 | | |
| BM (30°-60°) | 1905.9 | 7.2 | B2/2500 | | |
| BH (60°-80°) | 1174.1 | 4.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 203.2 | 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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3315.7 | 3315.7 | 3315.7 | 3315.7 | 3315.7 | 3315.7 | 3315.7 | 3315.7 | 3315.7 | 3315.7 | 3315.7 |
| 2.5° | 4225.7 | 4194.3 | 4190.8 | 4142.0 | 4096.7 | 3974.6 | 3887.5 | 3734.1 | 3580.7 | 3577.2 | 3423.8 |
| 5° | 4884.6 | 4853.2 | 4835.8 | 4776.5 | 4699.8 | 4539.5 | 4382.6 | 4145.5 | 3884.0 | 3866.6 | 3577.2 |
| 7.5° | 5330.9 | 5303.0 | 5268.1 | 5243.7 | 5170.5 | 5027.6 | 4835.8 | 4553.4 | 4194.3 | 4159.4 | 3755.0 |
| 10° | 5630.7 | 5613.3 | 5606.3 | 5588.9 | 5543.6 | 5428.5 | 5243.7 | 4943.9 | 4504.6 | 4466.2 | 3943.3 |
| 12.5° | 5759.7 | 5752.8 | 5784.2 | 5833.0 | 5850.4 | 5805.1 | 5627.3 | 5344.8 | 4846.3 | 4804.4 | 4169.9 |
| 15° | 5609.8 | 5616.8 | 5697.0 | 5864.3 | 6042.2 | 6139.8 | 6035.2 | 5759.7 | 5233.3 | 5174.0 | 4434.9 |
| 17.5° | 5540.1 | 5550.6 | 5606.3 | 5766.7 | 6017.7 | 6321.1 | 6369.9 | 6153.7 | 5606.3 | 5522.7 | 4713.8 |
| 20° | 5662.1 | 5676.1 | 5717.9 | 5843.4 | 6017.7 | 6342.0 | 6596.5 | 6530.3 | 5972.4 | 5885.3 | 4982.3 |
| 22.5° | 5972.4 | 5989.9 | 5986.4 | 6066.6 | 6185.1 | 6408.2 | 6722.0 | 6885.9 | 6355.9 | 6258.3 | 5261.2 |
| 25° | 6634.9 | 6620.9 | 6502.4 | 6464.0 | 6495.4 | 6638.4 | 6889.4 | 7227.6 | 6756.9 | 6659.3 | 5554.0 |
| 27.5° | 7534.4 | 7517.0 | 7300.8 | 7105.5 | 6931.2 | 6994.0 | 7126.5 | 7503.0 | 7164.8 | 7053.2 | 5833.0 |
| 30° | 8496.7 | 8475.8 | 8224.7 | 7907.4 | 7520.4 | 7429.8 | 7412.4 | 7743.6 | 7576.2 | 7457.7 | 6129.3 |
| 32.5° | 9434.5 | 9417.1 | 9148.7 | 8779.1 | 8245.6 | 7973.7 | 7806.3 | 8012.0 | 8043.4 | 7928.4 | 6453.6 |
| 35° | 10288.7 | 10288.7 | 10058.6 | 9619.3 | 9016.2 | 8604.8 | 8329.3 | 8343.3 | 8580.3 | 8447.9 | 6823.1 |
| 37.5° | 11048.8 | 11045.3 | 10794.3 | 10362.0 | 9783.2 | 9312.5 | 8970.8 | 8744.2 | 9092.9 | 8977.8 | 7210.1 |
| 40° | 11652.0 | 11627.6 | 11442.8 | 11066.2 | 10484.0 | 10016.8 | 9671.6 | 9214.9 | 9664.7 | 9560.1 | 7621.6 |
| 42.5° | 12091.3 | 12077.3 | 11951.8 | 11624.1 | 11069.7 | 10630.4 | 10393.3 | 9807.6 | 10313.2 | 10208.6 | 8102.7 |
| 45° | 12262.1 | 12290.0 | 12290.0 | 11979.7 | 11540.4 | 11139.5 | 11034.9 | 10459.6 | 11013.9 | 10909.3 | 8618.7 |
| 47.5° | 11986.7 | 12059.9 | 12209.8 | 12230.7 | 11843.7 | 11571.8 | 11606.7 | 11115.1 | 11735.7 | 11679.9 | 9183.5 |
| 50° | 11125.5 | 11261.5 | 11589.2 | 12181.9 | 11965.8 | 11903.0 | 12094.8 | 11784.5 | 12509.7 | 12492.2 | 9870.4 |
| 52.5° | 8904.6 | 9235.8 | 10257.4 | 11320.8 | 11882.1 | 12056.4 | 12579.4 | 12537.6 | 13506.8 | 13534.7 | 10766.4 |
| 55° | 6830.1 | 6955.6 | 8137.6 | 9947.1 | 11369.6 | 12007.6 | 12903.6 | 13273.2 | 14587.6 | 14622.5 | 11589.2 |
| 57.5° | 5522.7 | 5606.3 | 6251.3 | 8137.6 | 10201.6 | 11742.6 | 13158.2 | 13702.1 | 15417.4 | 15508.1 | 12321.4 |
| 60° | 4375.6 | 4497.6 | 4930.0 | 6226.9 | 8566.4 | 11104.6 | 13336.0 | 14179.7 | 16310.0 | 16446.0 | 13196.5 |
| 62.5° | 3252.9 | 3312.2 | 3720.1 | 4612.7 | 6781.3 | 9957.5 | 13241.8 | 14699.2 | 17404.8 | 17568.6 | 14249.4 |
| 65° | 2315.1 | 2367.4 | 2656.7 | 3280.8 | 5013.6 | 8406.0 | 12694.5 | 15086.2 | 18778.4 | 18945.8 | 15309.3 |
| 67.5° | 1732.8 | 1753.7 | 1917.6 | 2294.1 | 3378.4 | 6530.3 | 11585.7 | 15020.0 | 19782.6 | 19932.5 | 15734.7 |
| 70° | 1370.2 | 1377.2 | 1457.4 | 1659.6 | 2196.5 | 4546.4 | 9643.7 | 14047.2 | 19855.8 | 19988.3 | 15197.8 |
| 72.5° | 1136.6 | 1133.1 | 1178.4 | 1276.1 | 1530.6 | 2876.4 | 7143.9 | 12241.2 | 18914.4 | 19005.1 | 13698.6 |
| 75° | 937.9 | 944.8 | 976.2 | 1032.0 | 1168.0 | 1896.7 | 4630.1 | 9765.8 | 16686.5 | 16588.9 | 11495.1 |
| 77.5° | 788.0 | 784.5 | 798.4 | 847.2 | 944.8 | 1363.2 | 2712.5 | 7056.7 | 12366.7 | 12317.9 | 7544.8 |
| 80° | 634.5 | 641.5 | 662.4 | 704.3 | 794.9 | 1039.0 | 1603.8 | 4403.5 | 6634.9 | 6457.1 | 3605.1 |
| 82.5° | 425.4 | 491.6 | 533.4 | 582.3 | 686.8 | 767.0 | 1018.1 | 2238.4 | 2967.0 | 2921.7 | 1635.2 |
| 85° | 202.2 | 268.5 | 397.5 | 453.2 | 557.8 | 481.1 | 690.3 | 1066.9 | 1485.3 | 1467.8 | 589.2 |
| 87.5° | 41.8 | 41.8 | 212.7 | 254.5 | 345.2 | 205.7 | 383.5 | 463.7 | 718.2 | 672.9 | 240.6 |
| 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-PA3-280-722-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3315.7 | 3315.7 | 3315.7 | 3315.7 | 3315.7 | 3315.7 | 3315.7 | 3315.7 | 3315.7 | 3315.7 | 3315.7 |
| 2.5° | 3333.1 | 3239.0 | 3050.7 | 2900.8 | 2747.4 | 2660.2 | 2552.1 | 2499.8 | 2489.4 | 2461.5 | 2482.4 |
| 5° | 3392.4 | 3207.6 | 2852.0 | 2618.4 | 2461.5 | 2384.8 | 2346.4 | 2332.5 | 2329.0 | 2322.0 | 2322.0 |
| 7.5° | 3472.6 | 3190.2 | 2726.5 | 2489.4 | 2388.3 | 2363.9 | 2374.3 | 2395.2 | 2398.7 | 2405.7 | 2402.2 |
| 10° | 3570.2 | 3193.7 | 2656.7 | 2458.0 | 2409.2 | 2412.7 | 2447.5 | 2475.4 | 2489.4 | 2499.8 | 2496.4 |
| 12.5° | 3706.2 | 3235.5 | 2646.3 | 2478.9 | 2458.0 | 2471.9 | 2506.8 | 2534.7 | 2548.7 | 2552.1 | 2552.1 |
| 15° | 3884.0 | 3322.7 | 2670.7 | 2524.2 | 2506.8 | 2517.3 | 2538.2 | 2548.7 | 2552.1 | 2548.7 | 2548.7 |
| 17.5° | 4079.2 | 3427.3 | 2705.5 | 2552.1 | 2524.2 | 2513.8 | 2506.8 | 2496.4 | 2475.4 | 2461.5 | 2461.5 |
| 20° | 4267.5 | 3521.4 | 2723.0 | 2548.7 | 2499.8 | 2458.0 | 2416.2 | 2363.9 | 2329.0 | 2301.1 | 2301.1 |
| 22.5° | 4455.8 | 3608.6 | 2723.0 | 2510.3 | 2433.6 | 2353.4 | 2266.2 | 2182.6 | 2130.3 | 2095.4 | 2095.4 |
| 25° | 4654.5 | 3692.2 | 2702.1 | 2444.1 | 2329.0 | 2213.9 | 2095.4 | 1990.8 | 1938.5 | 1903.6 | 1896.7 |
| 27.5° | 4821.9 | 3741.0 | 2646.3 | 2349.9 | 2200.0 | 2053.6 | 1917.6 | 1809.5 | 1771.2 | 1739.8 | 1739.8 |
| 30° | 4999.7 | 3772.4 | 2541.7 | 2227.9 | 2053.6 | 1886.2 | 1746.8 | 1659.6 | 1617.7 | 1572.4 | 1568.9 |
| 32.5° | 5198.4 | 3793.3 | 2423.1 | 2098.9 | 1903.6 | 1725.8 | 1607.3 | 1537.6 | 1446.9 | 1398.1 | 1391.1 |
| 35° | 5428.5 | 3821.2 | 2297.6 | 1952.5 | 1753.7 | 1593.3 | 1523.6 | 1408.6 | 1321.4 | 1279.6 | 1276.1 |
| 37.5° | 5672.6 | 3842.2 | 2161.6 | 1823.5 | 1617.7 | 1506.2 | 1436.4 | 1300.5 | 1223.8 | 1161.0 | 1154.0 |
| 40° | 5930.6 | 3842.2 | 2022.2 | 1697.9 | 1509.7 | 1467.8 | 1335.3 | 1213.3 | 1084.3 | 1052.9 | 1046.0 |
| 42.5° | 6216.5 | 3835.2 | 1882.7 | 1575.9 | 1408.6 | 1380.7 | 1276.1 | 1147.1 | 1080.8 | 1052.9 | 1046.0 |
| 45° | 6519.8 | 3810.8 | 1750.2 | 1436.4 | 1304.0 | 1248.2 | 1168.0 | 1133.1 | 1105.2 | 1105.2 | 1105.2 |
| 47.5° | 6865.0 | 3789.9 | 1600.3 | 1310.9 | 1227.3 | 1164.5 | 1105.2 | 1084.3 | 1080.8 | 1091.3 | 1101.7 |
| 50° | 7307.8 | 3782.9 | 1474.8 | 1220.3 | 1168.0 | 1094.8 | 1087.8 | 1070.4 | 1073.9 | 1073.9 | 1073.9 |
| 52.5° | 7844.7 | 3720.1 | 1356.3 | 1154.0 | 1108.7 | 1021.6 | 1042.5 | 1059.9 | 1066.9 | 1063.4 | 1059.9 |
| 55° | 8238.7 | 3608.6 | 1255.2 | 1108.7 | 1066.9 | 993.7 | 1021.6 | 1049.4 | 1056.4 | 1046.0 | 1046.0 |
| 57.5° | 8594.3 | 3451.7 | 1175.0 | 1073.9 | 1039.0 | 976.2 | 1007.6 | 1035.5 | 1028.5 | 1025.0 | 1021.6 |
| 60° | 9002.2 | 3301.7 | 1112.2 | 1056.4 | 1011.1 | 969.3 | 997.1 | 1014.6 | 1004.1 | 997.1 | 993.7 |
| 62.5° | 9445.0 | 3155.3 | 1066.9 | 1056.4 | 990.2 | 965.8 | 986.7 | 993.7 | 972.7 | 965.8 | 965.8 |
| 65° | 9650.7 | 2925.2 | 1018.1 | 1056.4 | 979.7 | 958.8 | 965.8 | 958.8 | 937.9 | 937.9 | 934.4 |
| 67.5° | 9312.5 | 2545.2 | 955.3 | 1042.5 | 993.7 | 948.3 | 934.4 | 923.9 | 899.5 | 899.5 | 892.6 |
| 70° | 8378.1 | 2091.9 | 864.7 | 997.1 | 997.1 | 944.8 | 892.6 | 868.1 | 840.3 | 850.7 | 836.8 |
| 72.5° | 7157.8 | 1659.6 | 753.1 | 920.4 | 976.2 | 941.4 | 847.2 | 808.9 | 784.5 | 794.9 | 774.0 |
| 75° | 5798.1 | 1286.5 | 620.6 | 798.4 | 923.9 | 923.9 | 801.9 | 749.6 | 721.7 | 721.7 | 697.3 |
| 77.5° | 3695.7 | 951.8 | 505.5 | 662.4 | 829.8 | 899.5 | 763.5 | 683.4 | 641.5 | 631.1 | 613.6 |
| 80° | 1830.4 | 669.4 | 414.9 | 526.5 | 707.8 | 843.7 | 735.7 | 606.7 | 547.4 | 526.5 | 495.1 |
| 82.5° | 972.7 | 463.7 | 331.2 | 411.4 | 564.8 | 760.1 | 700.8 | 523.0 | 449.8 | 418.4 | 383.5 |
| 85° | 435.8 | 285.9 | 265.0 | 313.8 | 428.8 | 624.1 | 631.1 | 428.8 | 345.2 | 411.4 | 303.3 |
| 87.5° | 160.4 | 129.0 | 129.0 | 160.4 | 247.5 | 261.5 | 446.3 | 275.4 | 219.7 | 149.9 | 118.5 |
| 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)