

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: P399913

Luminaire Tested: **ARCH-L-PA3-210-727-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399913
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-PA3-210-727-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25183 lumens
Efficiency: N/A
Efficacy: 119.4 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

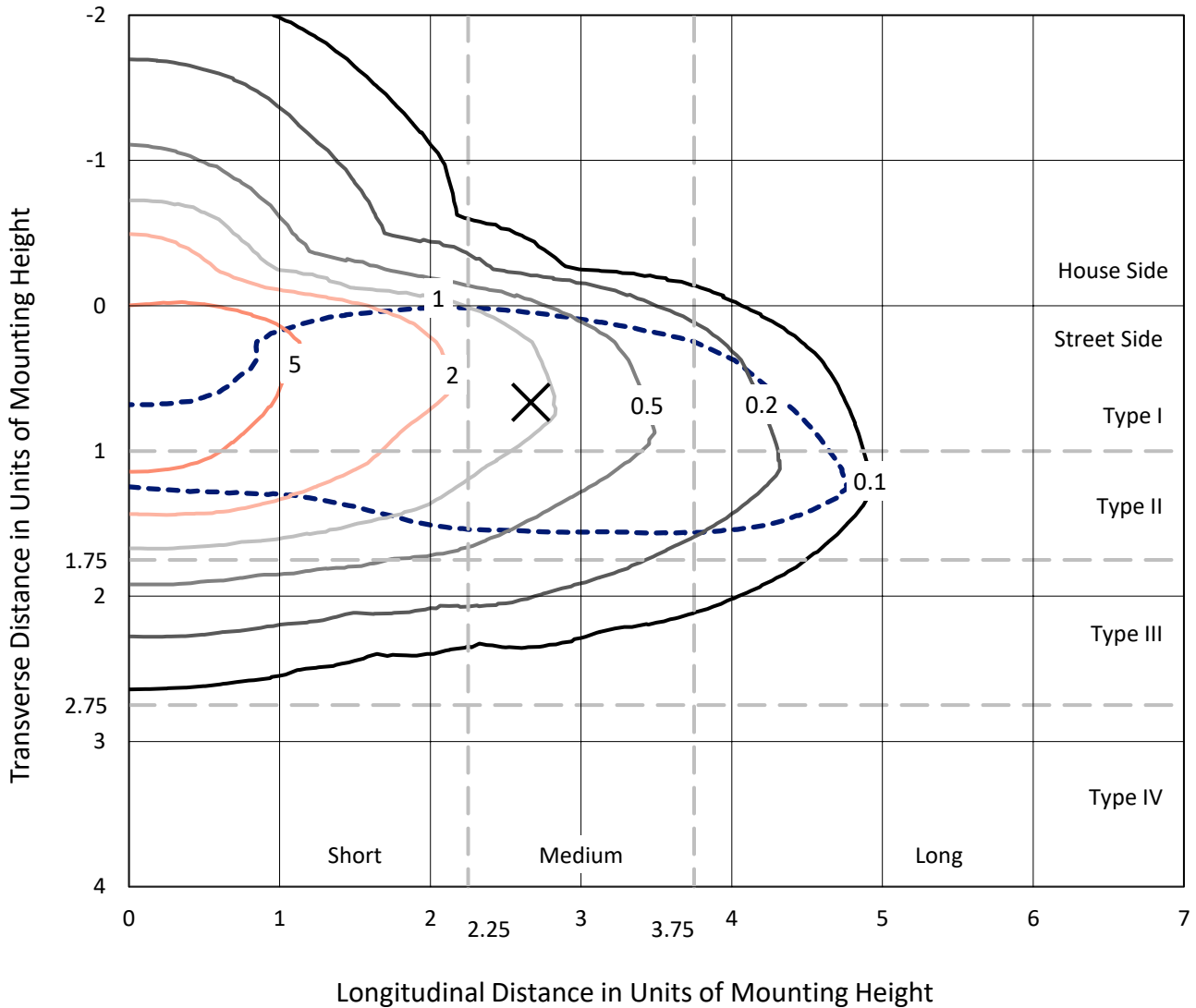
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

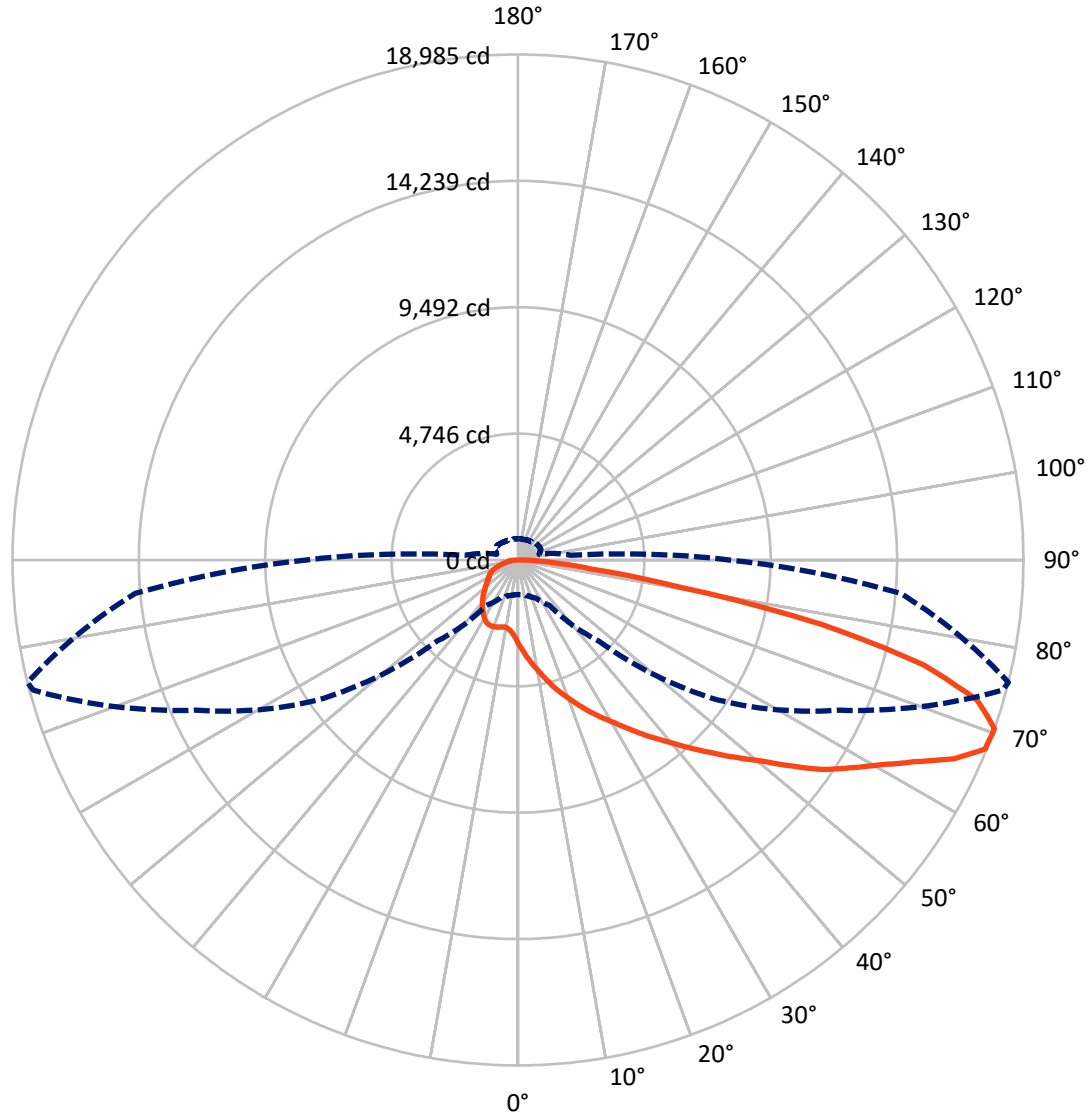
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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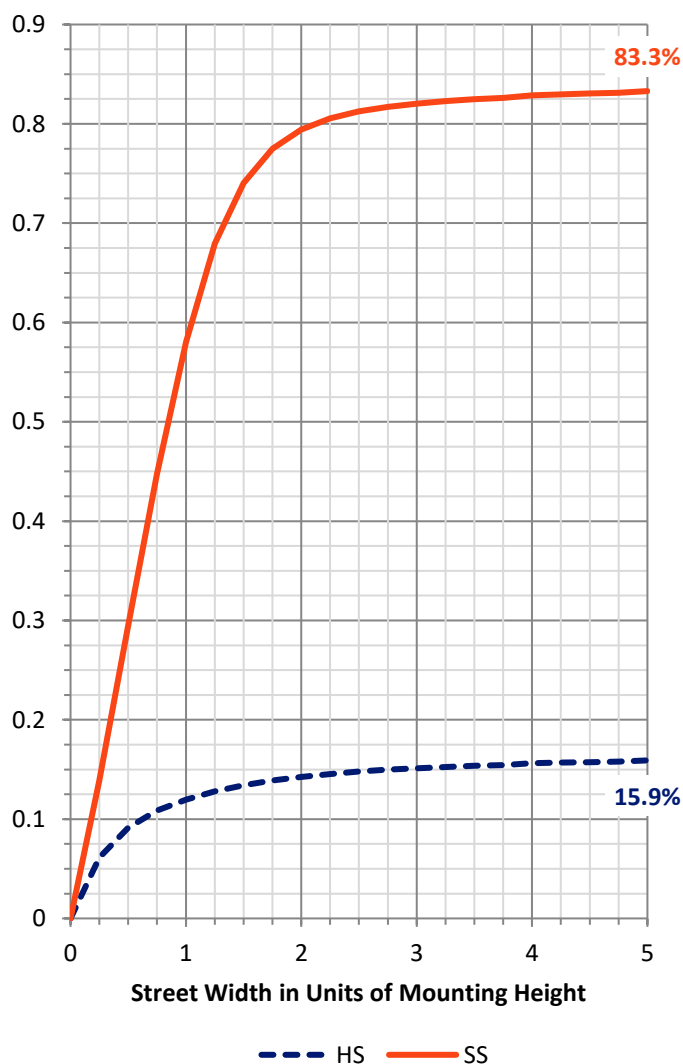
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4111.4 | 0.0 | 4111.4 |
| | % Fixture | 16.3 | 0.0 | 16.3 |
| Street Side | Lumens | 21071.6 | 0.0 | 21071.6 |
| | % Fixture | 83.7 | 0.0 | 83.7 |
| Total | Lumens | 25183.0 | 0.0 | 25183.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 327.2 | 1.3 |
| 10°-20° | 1112.1 | 4.4 |
| 20°-30° | 1989.7 | 7.9 |
| 30°-40° | 3218.7 | 12.8 |
| 40°-50° | 4656.3 | 18.5 |
| 50°-60° | 5329.4 | 21.2 |
| 60°-70° | 4902.4 | 19.5 |
| 70°-80° | 3031.6 | 12.0 |
| 80°-90° | 615.6 | 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° | 25183.0 | 100.0 |
| 0°-180° | 25183.0 | 100.0 |

Coefficient of Utilization

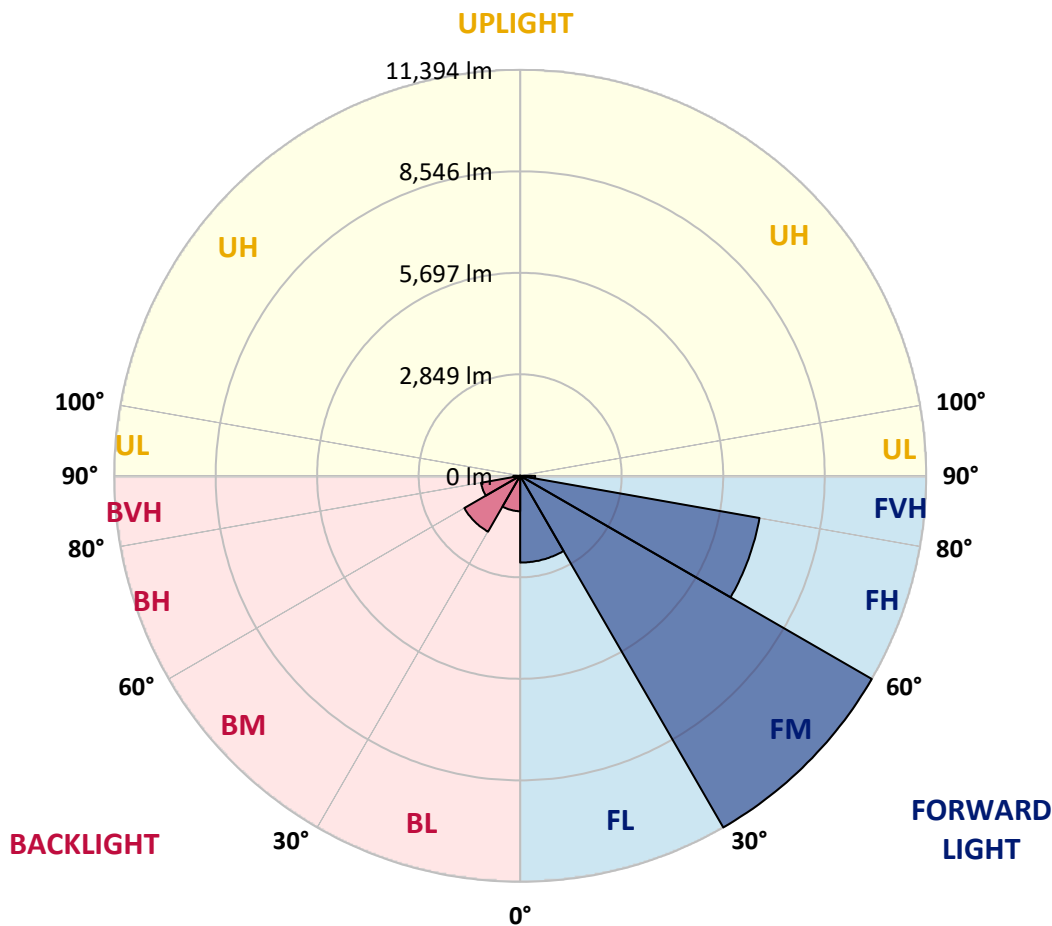


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2436.0 | 9.7 | | | |
| FM (30°-60°) | 11394.1 | 45.2 | | | |
| FH (60°-80°) | 6818.9 | 27.1 | | | G3/7500 |
| FVH (80°-90°) | 422.6 | 1.7 | | | G3/500 |
| BL (0°-30°) | 993.0 | 3.9 | B2/1000 | | |
| BM (30°-60°) | 1810.2 | 7.2 | B2/2500 | | |
| BH (60°-80°) | 1115.1 | 4.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 193.0 | 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° | 3149.2 | 3149.2 | 3149.2 | 3149.2 | 3149.2 | 3149.2 | 3149.2 | 3149.2 | 3149.2 | 3149.2 | 3149.2 |
| 2.5° | 4013.5 | 3983.7 | 3980.4 | 3934.1 | 3891.0 | 3775.1 | 3692.3 | 3546.6 | 3400.9 | 3397.6 | 3251.9 |
| 5° | 4639.4 | 4609.6 | 4593.1 | 4536.8 | 4463.9 | 4311.6 | 4162.6 | 3937.4 | 3689.0 | 3672.5 | 3397.6 |
| 7.5° | 5063.3 | 5036.8 | 5003.7 | 4980.5 | 4911.0 | 4775.2 | 4593.1 | 4324.8 | 3983.7 | 3950.6 | 3566.5 |
| 10° | 5348.1 | 5331.5 | 5324.9 | 5308.3 | 5265.3 | 5156.0 | 4980.5 | 4695.7 | 4278.5 | 4242.0 | 3745.3 |
| 12.5° | 5470.6 | 5464.0 | 5493.8 | 5540.1 | 5556.7 | 5513.7 | 5344.8 | 5076.5 | 4603.0 | 4563.3 | 3960.6 |
| 15° | 5328.2 | 5334.8 | 5411.0 | 5570.0 | 5738.8 | 5831.6 | 5732.2 | 5470.6 | 4970.6 | 4914.3 | 4212.2 |
| 17.5° | 5262.0 | 5271.9 | 5324.9 | 5477.2 | 5715.7 | 6003.8 | 6050.1 | 5844.8 | 5324.9 | 5245.4 | 4477.2 |
| 20° | 5377.9 | 5391.1 | 5430.9 | 5550.1 | 5715.7 | 6023.6 | 6265.4 | 6202.5 | 5672.6 | 5589.8 | 4732.1 |
| 22.5° | 5672.6 | 5689.2 | 5685.9 | 5762.0 | 5874.6 | 6086.5 | 6384.6 | 6540.2 | 6036.9 | 5944.2 | 4997.1 |
| 25° | 6301.8 | 6288.5 | 6176.0 | 6139.5 | 6169.3 | 6305.1 | 6543.5 | 6864.8 | 6417.7 | 6325.0 | 5275.2 |
| 27.5° | 7156.2 | 7139.6 | 6934.3 | 6748.8 | 6583.3 | 6642.9 | 6768.7 | 7126.4 | 6805.1 | 6699.2 | 5540.1 |
| 30° | 8070.1 | 8050.3 | 7811.8 | 7510.5 | 7142.9 | 7056.8 | 7040.3 | 7354.9 | 7195.9 | 7083.3 | 5821.6 |
| 32.5° | 8960.9 | 8944.4 | 8689.4 | 8338.4 | 7831.7 | 7573.4 | 7414.5 | 7609.8 | 7639.6 | 7530.4 | 6129.6 |
| 35° | 9772.3 | 9772.3 | 9553.7 | 9136.4 | 8563.6 | 8172.8 | 7911.2 | 7924.4 | 8149.6 | 8023.8 | 6480.6 |
| 37.5° | 10494.2 | 10490.8 | 10252.4 | 9841.8 | 9292.1 | 8845.0 | 8520.5 | 8305.3 | 8636.4 | 8527.1 | 6848.2 |
| 40° | 11067.1 | 11043.9 | 10868.4 | 10510.7 | 9957.7 | 9514.0 | 9186.1 | 8752.3 | 9179.5 | 9080.1 | 7239.0 |
| 42.5° | 11484.3 | 11471.1 | 11351.8 | 11040.6 | 10514.0 | 10096.8 | 9871.6 | 9315.3 | 9795.4 | 9696.1 | 7695.9 |
| 45° | 11646.6 | 11673.1 | 11673.1 | 11378.3 | 10961.1 | 10580.3 | 10480.9 | 9934.5 | 10461.0 | 10361.7 | 8186.0 |
| 47.5° | 11385.0 | 11454.5 | 11596.9 | 11616.8 | 11249.2 | 10990.9 | 11024.0 | 10557.1 | 11146.5 | 11093.5 | 8722.5 |
| 50° | 10567.0 | 10696.2 | 11007.4 | 11570.4 | 11365.1 | 11305.5 | 11487.6 | 11192.9 | 11881.7 | 11865.1 | 9374.9 |
| 52.5° | 8457.6 | 8772.2 | 9742.4 | 10752.5 | 11285.6 | 11451.2 | 11947.9 | 11908.2 | 12828.8 | 12855.3 | 10225.9 |
| 55° | 6487.2 | 6606.5 | 7729.1 | 9447.7 | 10798.8 | 11404.8 | 12255.9 | 12606.9 | 13855.3 | 13888.5 | 11007.4 |
| 57.5° | 5245.4 | 5324.9 | 5937.5 | 7729.1 | 9689.5 | 11153.2 | 12497.6 | 13014.2 | 14643.5 | 14729.6 | 11702.9 |
| 60° | 4155.9 | 4271.8 | 4682.5 | 5914.3 | 8136.4 | 10547.1 | 12666.5 | 13467.9 | 15491.2 | 15620.4 | 12534.0 |
| 62.5° | 3089.6 | 3145.9 | 3533.4 | 4381.1 | 6440.9 | 9457.7 | 12577.1 | 13961.3 | 16531.0 | 16686.7 | 13534.1 |
| 65° | 2198.8 | 2248.5 | 2523.4 | 3116.1 | 4761.9 | 7984.0 | 12057.2 | 14328.9 | 17835.8 | 17994.7 | 14540.8 |
| 67.5° | 1645.8 | 1665.7 | 1821.3 | 2179.0 | 3208.8 | 6202.5 | 11004.1 | 14266.0 | 18789.5 | 18931.9 | 14944.8 |
| 70° | 1301.4 | 1308.0 | 1384.2 | 1576.3 | 2086.2 | 4318.2 | 9159.6 | 13342.1 | 18859.0 | 18984.9 | 14434.9 |
| 72.5° | 1079.6 | 1076.2 | 1119.3 | 1212.0 | 1453.8 | 2732.0 | 6785.3 | 11626.7 | 17964.9 | 18051.0 | 13010.9 |
| 75° | 890.8 | 897.4 | 927.2 | 980.2 | 1109.4 | 1801.5 | 4397.7 | 9275.5 | 15848.9 | 15756.1 | 10918.0 |
| 77.5° | 748.4 | 745.1 | 758.3 | 804.7 | 897.4 | 1294.8 | 2576.4 | 6702.5 | 11745.9 | 11699.5 | 7166.1 |
| 80° | 602.7 | 609.3 | 629.2 | 668.9 | 755.0 | 986.8 | 1523.3 | 4182.4 | 6301.8 | 6132.9 | 3424.1 |
| 82.5° | 404.0 | 466.9 | 506.7 | 553.0 | 652.4 | 728.5 | 967.0 | 2126.0 | 2818.1 | 2775.0 | 1553.1 |
| 85° | 192.1 | 255.0 | 377.5 | 430.5 | 529.8 | 457.0 | 655.7 | 1013.3 | 1410.7 | 1394.1 | 559.6 |
| 87.5° | 39.7 | 39.7 | 202.0 | 241.7 | 327.8 | 195.4 | 364.3 | 440.4 | 682.2 | 639.1 | 228.5 |
| 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: P399913

CATALOG NUMBER: ARCH-L-PA3-210-727-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3149.2 | 3149.2 | 3149.2 | 3149.2 | 3149.2 | 3149.2 | 3149.2 | 3149.2 | 3149.2 | 3149.2 | 3149.2 |
| 2.5° | 3165.8 | 3076.4 | 2897.6 | 2755.2 | 2609.5 | 2526.7 | 2424.0 | 2374.3 | 2364.4 | 2337.9 | 2357.8 |
| 5° | 3222.1 | 3046.6 | 2708.8 | 2486.9 | 2337.9 | 2265.1 | 2228.6 | 2215.4 | 2212.1 | 2205.5 | 2205.5 |
| 7.5° | 3298.3 | 3030.0 | 2589.6 | 2364.4 | 2268.4 | 2245.2 | 2255.1 | 2275.0 | 2278.3 | 2284.9 | 2281.6 |
| 10° | 3391.0 | 3033.3 | 2523.4 | 2334.6 | 2288.3 | 2291.6 | 2324.7 | 2351.2 | 2364.4 | 2374.3 | 2371.0 |
| 12.5° | 3520.1 | 3073.1 | 2513.4 | 2354.5 | 2334.6 | 2347.9 | 2381.0 | 2407.5 | 2420.7 | 2424.0 | 2424.0 |
| 15° | 3689.0 | 3155.9 | 2536.6 | 2397.5 | 2381.0 | 2390.9 | 2410.8 | 2420.7 | 2424.0 | 2420.7 | 2420.7 |
| 17.5° | 3874.5 | 3255.2 | 2569.7 | 2424.0 | 2397.5 | 2387.6 | 2381.0 | 2371.0 | 2351.2 | 2337.9 | 2337.9 |
| 20° | 4053.3 | 3344.6 | 2586.3 | 2420.7 | 2374.3 | 2334.6 | 2294.9 | 2245.2 | 2212.1 | 2185.6 | 2185.6 |
| 22.5° | 4232.1 | 3427.4 | 2586.3 | 2384.3 | 2311.4 | 2235.3 | 2152.5 | 2073.0 | 2023.3 | 1990.2 | 1990.2 |
| 25° | 4420.9 | 3506.9 | 2566.4 | 2321.4 | 2212.1 | 2102.8 | 1990.2 | 1890.9 | 1841.2 | 1808.1 | 1801.5 |
| 27.5° | 4579.8 | 3553.2 | 2513.4 | 2232.0 | 2089.6 | 1950.5 | 1821.3 | 1718.7 | 1682.2 | 1652.4 | 1652.4 |
| 30° | 4748.7 | 3583.0 | 2414.1 | 2116.1 | 1950.5 | 1791.5 | 1659.1 | 1576.3 | 1536.5 | 1493.5 | 1490.2 |
| 32.5° | 4937.5 | 3602.9 | 2301.5 | 1993.5 | 1808.1 | 1639.2 | 1526.6 | 1460.4 | 1374.3 | 1327.9 | 1321.3 |
| 35° | 5156.0 | 3629.4 | 2182.3 | 1854.4 | 1665.7 | 1513.4 | 1447.1 | 1337.8 | 1255.1 | 1215.3 | 1212.0 |
| 37.5° | 5387.8 | 3649.3 | 2053.1 | 1731.9 | 1536.5 | 1430.6 | 1364.3 | 1235.2 | 1162.3 | 1102.7 | 1096.1 |
| 40° | 5632.9 | 3649.3 | 1920.7 | 1612.7 | 1433.9 | 1394.1 | 1268.3 | 1152.4 | 1029.9 | 1000.1 | 993.5 |
| 42.5° | 5904.4 | 3642.7 | 1788.2 | 1496.8 | 1337.8 | 1311.4 | 1212.0 | 1089.5 | 1026.6 | 1000.1 | 993.5 |
| 45° | 6192.5 | 3619.5 | 1662.4 | 1364.3 | 1238.5 | 1185.5 | 1109.4 | 1076.2 | 1049.7 | 1049.7 | 1049.7 |
| 47.5° | 6520.4 | 3599.6 | 1520.0 | 1245.1 | 1165.6 | 1106.0 | 1049.7 | 1029.9 | 1026.6 | 1036.5 | 1046.4 |
| 50° | 6940.9 | 3593.0 | 1400.8 | 1159.0 | 1109.4 | 1039.8 | 1033.2 | 1016.6 | 1019.9 | 1019.9 | 1019.9 |
| 52.5° | 7450.9 | 3533.4 | 1288.2 | 1096.1 | 1053.1 | 970.3 | 990.1 | 1006.7 | 1013.3 | 1010.0 | 1006.7 |
| 55° | 7825.1 | 3427.4 | 1192.1 | 1053.1 | 1013.3 | 943.8 | 970.3 | 996.8 | 1003.4 | 993.5 | 993.5 |
| 57.5° | 8162.9 | 3278.4 | 1116.0 | 1019.9 | 986.8 | 927.2 | 957.0 | 983.5 | 976.9 | 973.6 | 970.3 |
| 60° | 8550.3 | 3136.0 | 1056.4 | 1003.4 | 960.3 | 920.6 | 947.1 | 963.6 | 953.7 | 947.1 | 943.8 |
| 62.5° | 8970.9 | 2996.9 | 1013.3 | 1003.4 | 940.5 | 917.3 | 937.2 | 943.8 | 923.9 | 917.3 | 917.3 |
| 65° | 9166.2 | 2778.4 | 967.0 | 1003.4 | 930.5 | 910.7 | 917.3 | 910.7 | 890.8 | 890.8 | 887.5 |
| 67.5° | 8845.0 | 2417.4 | 907.4 | 990.1 | 943.8 | 900.7 | 887.5 | 877.5 | 854.4 | 854.4 | 847.7 |
| 70° | 7957.5 | 1986.9 | 821.3 | 947.1 | 947.1 | 897.4 | 847.7 | 824.6 | 798.1 | 808.0 | 794.8 |
| 72.5° | 6798.5 | 1576.3 | 715.3 | 874.2 | 927.2 | 894.1 | 804.7 | 768.3 | 745.1 | 755.0 | 735.2 |
| 75° | 5507.0 | 1221.9 | 589.4 | 758.3 | 877.5 | 877.5 | 761.6 | 712.0 | 685.5 | 685.5 | 662.3 |
| 77.5° | 3510.2 | 904.0 | 480.2 | 629.2 | 788.1 | 854.4 | 725.2 | 649.1 | 609.3 | 599.4 | 582.8 |
| 80° | 1738.5 | 635.8 | 394.1 | 500.0 | 672.2 | 801.4 | 698.7 | 576.2 | 519.9 | 500.0 | 470.2 |
| 82.5° | 923.9 | 440.4 | 314.6 | 390.8 | 536.5 | 721.9 | 665.6 | 496.7 | 427.2 | 397.4 | 364.3 |
| 85° | 413.9 | 271.5 | 251.7 | 298.0 | 407.3 | 592.8 | 599.4 | 407.3 | 327.8 | 390.8 | 288.1 |
| 87.5° | 152.3 | 122.5 | 122.5 | 152.3 | 235.1 | 248.4 | 423.9 | 261.6 | 208.6 | 142.4 | 112.6 |
| 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)