

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: P573578

Luminaire Tested: **ARCH-S-PA2-90-750-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-90-750-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12793 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

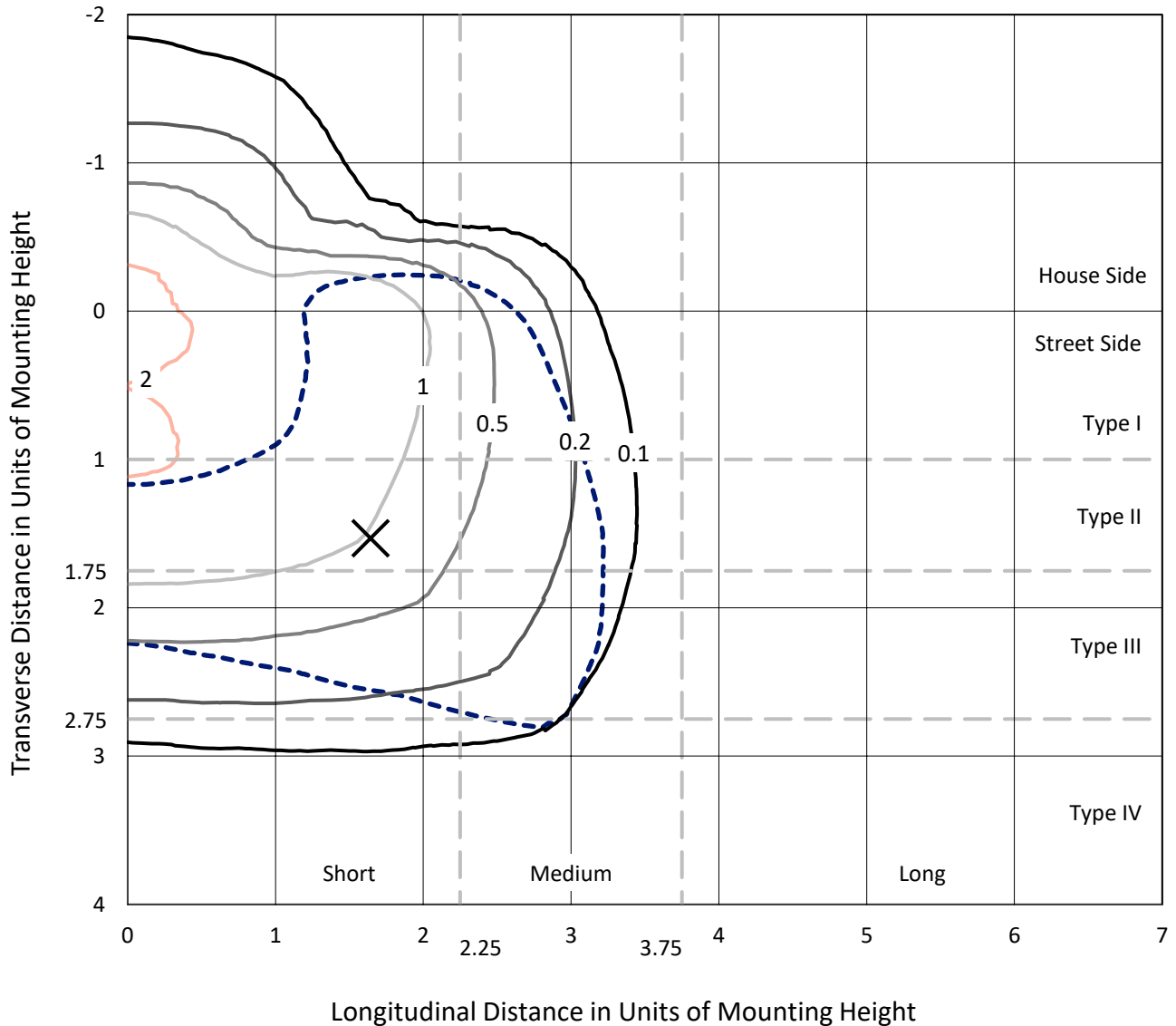
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

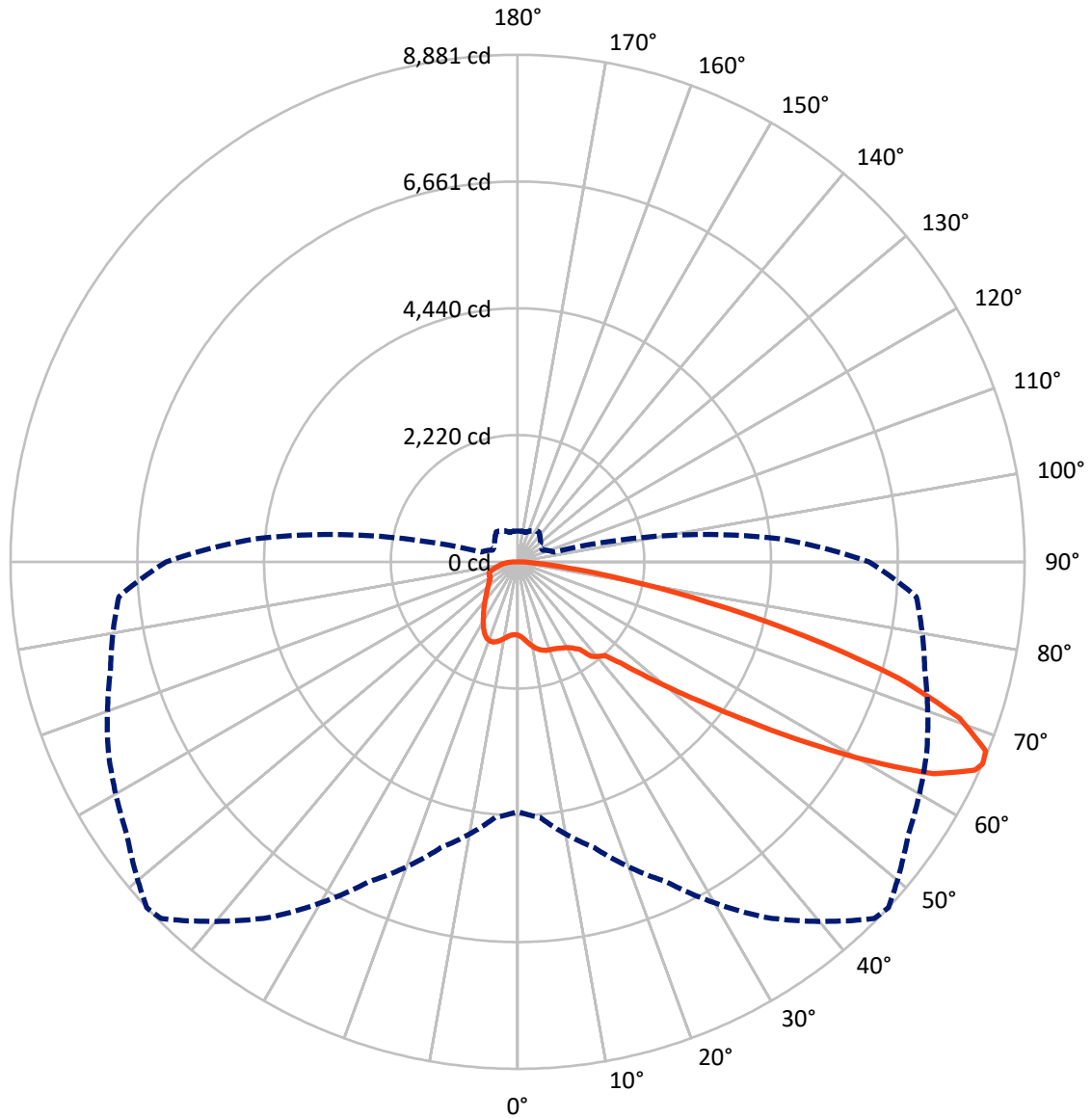
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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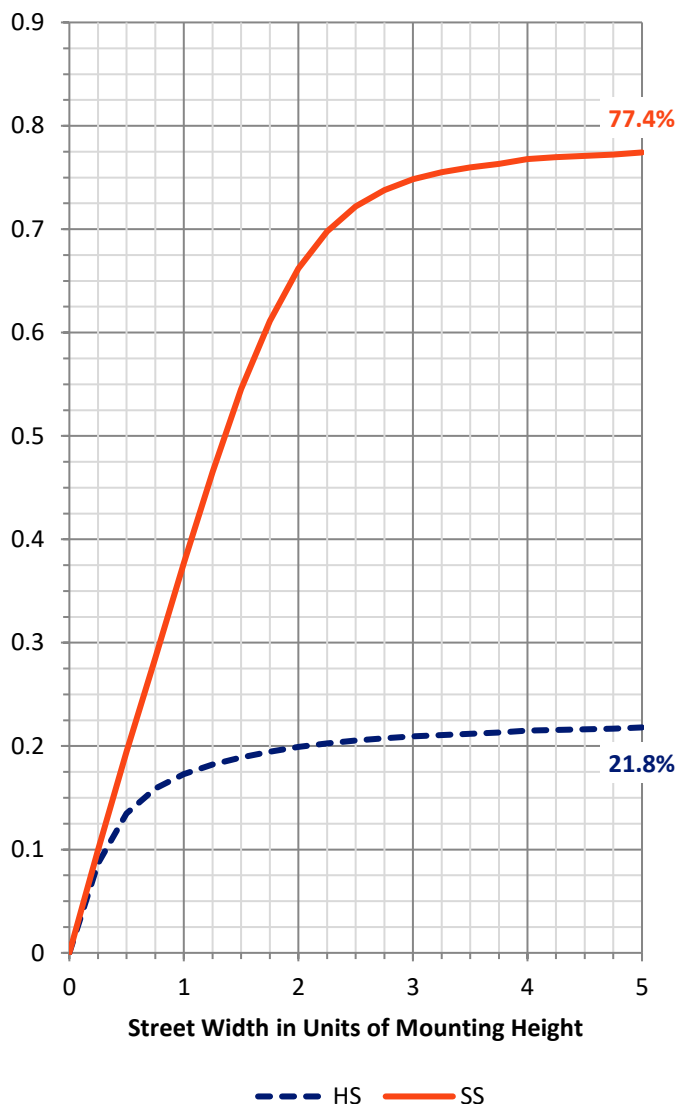
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2844.3 | 0.0 | 2844.3 |
| | % Fixture | 22.2 | 0.0 | 22.2 |
| Street Side | Lumens | 9948.7 | 0.0 | 9948.7 |
| | % Fixture | 77.8 | 0.0 | 77.8 |
| Total | Lumens | 12793.0 | 0.0 | 12793.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 130.9 | 1.0 |
| 10°-20° | 429.4 | 3.4 |
| 20°-30° | 716.1 | 5.6 |
| 30°-40° | 1040.0 | 8.1 |
| 40°-50° | 1590.5 | 12.4 |
| 50°-60° | 3006.4 | 23.5 |
| 60°-70° | 3884.7 | 30.4 |
| 70°-80° | 1746.1 | 13.6 |
| 80°-90° | 249.1 | 1.9 |
| 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° | 12793.0 | 100.0 |
| 0°-180° | 12793.0 | 100.0 |

Coefficient of Utilization

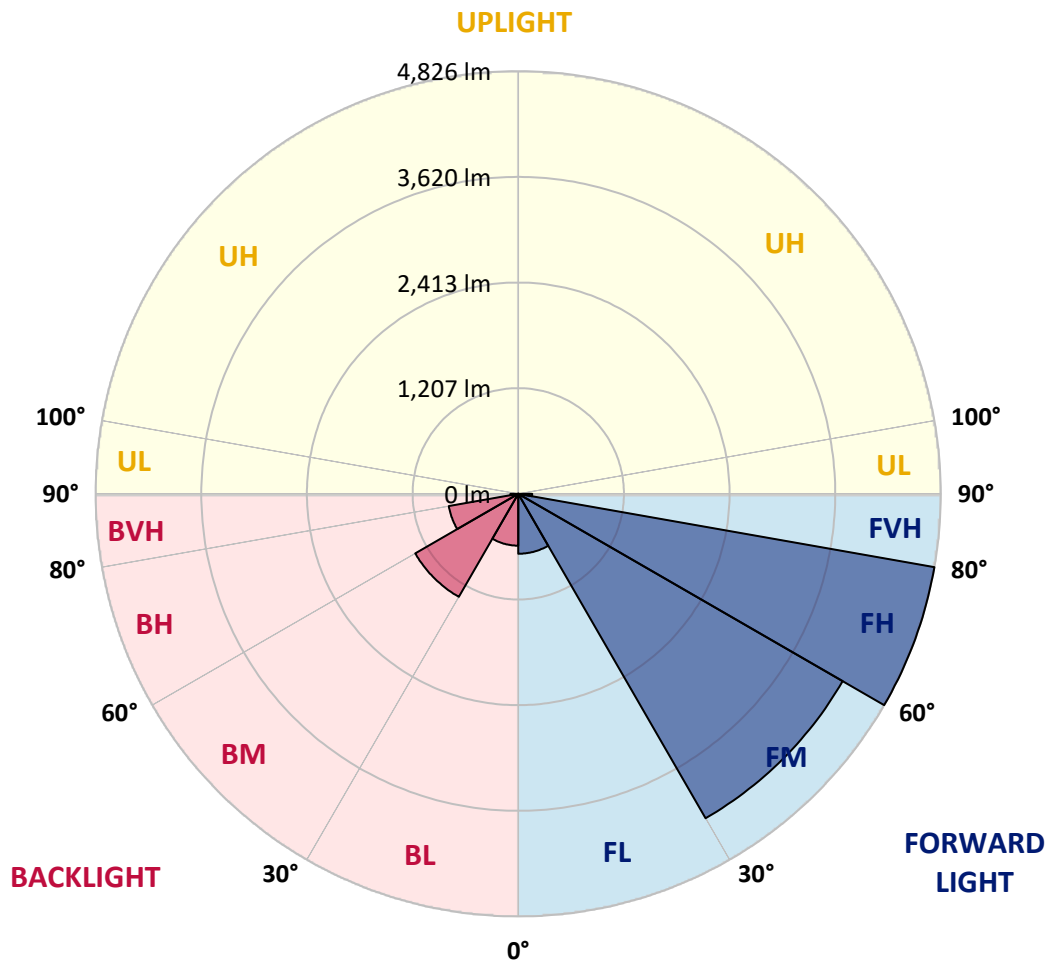


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 684.5 | 5.4 | | | |
| FM (30°-60°) | 4278.2 | 33.4 | | | |
| FH (60°-80°) | 4826.0 | 37.7 | | | G2/5000 |
| FVH (80°-90°) | 160.0 | 1.3 | | | G2/225 |
| BL (0°-30°) | 591.9 | 4.6 | B2/1000 | | |
| BM (30°-60°) | 1358.6 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 804.8 | 6.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 89.0 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 |
| 2.5° | 1359.1 | 1348.7 | 1341.7 | 1338.2 | 1331.3 | 1317.4 | 1317.4 | 1313.9 | 1300.0 | 1293.0 | 1289.6 |
| 5° | 1466.8 | 1459.9 | 1442.5 | 1428.6 | 1407.7 | 1379.9 | 1376.5 | 1355.6 | 1327.8 | 1306.9 | 1293.0 |
| 7.5° | 1571.1 | 1564.2 | 1546.8 | 1525.9 | 1491.2 | 1456.4 | 1446.0 | 1418.2 | 1373.0 | 1341.7 | 1317.4 |
| 10° | 1661.5 | 1651.1 | 1630.2 | 1602.4 | 1564.2 | 1525.9 | 1515.5 | 1484.2 | 1439.0 | 1393.8 | 1352.1 |
| 12.5° | 1720.6 | 1713.6 | 1689.3 | 1654.5 | 1612.8 | 1574.6 | 1567.6 | 1539.8 | 1494.6 | 1446.0 | 1393.8 |
| 15° | 1748.4 | 1744.9 | 1717.1 | 1682.3 | 1640.6 | 1609.3 | 1605.9 | 1581.5 | 1543.3 | 1494.6 | 1435.5 |
| 17.5° | 1741.4 | 1738.0 | 1713.6 | 1678.9 | 1647.6 | 1630.2 | 1630.2 | 1612.8 | 1581.5 | 1539.8 | 1477.3 |
| 20° | 1706.7 | 1706.7 | 1685.8 | 1661.5 | 1644.1 | 1640.6 | 1640.6 | 1637.2 | 1616.3 | 1581.5 | 1519.0 |
| 22.5° | 1671.9 | 1671.9 | 1658.0 | 1640.6 | 1637.2 | 1651.1 | 1654.5 | 1661.5 | 1654.5 | 1626.7 | 1571.1 |
| 25° | 1678.9 | 1675.4 | 1658.0 | 1637.2 | 1640.6 | 1671.9 | 1678.9 | 1696.2 | 1692.8 | 1671.9 | 1623.2 |
| 27.5° | 1755.3 | 1751.9 | 1706.7 | 1665.0 | 1661.5 | 1699.7 | 1706.7 | 1731.0 | 1731.0 | 1713.6 | 1682.3 |
| 30° | 1946.5 | 1953.5 | 1870.0 | 1765.8 | 1713.6 | 1738.0 | 1744.9 | 1772.7 | 1786.6 | 1793.6 | 1769.2 |
| 32.5° | 2238.5 | 2228.1 | 2102.9 | 1932.6 | 1817.9 | 1793.6 | 1804.0 | 1828.3 | 1877.0 | 1890.9 | 1831.8 |
| 35° | 2533.9 | 2540.9 | 2419.2 | 2203.7 | 1984.7 | 1894.4 | 1887.4 | 1922.2 | 1995.2 | 1932.6 | 1828.3 |
| 37.5° | 2808.5 | 2798.1 | 2655.6 | 2422.7 | 2203.7 | 2099.4 | 2102.9 | 2089.0 | 2026.5 | 1901.3 | 1852.7 |
| 40° | 3107.5 | 3079.7 | 2961.5 | 2662.5 | 2384.5 | 2210.7 | 2179.4 | 2061.2 | 2009.1 | 1956.9 | 1950.0 |
| 42.5° | 3402.9 | 3406.4 | 3309.1 | 3013.6 | 2600.0 | 2290.6 | 2242.0 | 2120.3 | 2155.1 | 2144.6 | 2137.7 |
| 45° | 3774.8 | 3774.8 | 3677.5 | 3402.9 | 2940.6 | 2589.6 | 2523.5 | 2377.5 | 2433.1 | 2474.8 | 2558.3 |
| 47.5° | 4115.5 | 4094.6 | 4066.8 | 3833.9 | 3385.5 | 2978.9 | 2951.0 | 2784.2 | 2930.2 | 3058.8 | 3229.1 |
| 50° | 4477.0 | 4449.2 | 4431.8 | 4289.3 | 3969.5 | 3569.8 | 3486.3 | 3312.5 | 3632.3 | 3872.2 | 4188.5 |
| 52.5° | 5040.1 | 4991.4 | 4901.0 | 4821.1 | 4696.0 | 4233.7 | 4129.4 | 4000.8 | 4414.4 | 4716.8 | 5363.3 |
| 55° | 5547.5 | 5505.8 | 5418.9 | 5478.0 | 5460.6 | 5040.1 | 4949.7 | 4828.0 | 5276.4 | 5644.9 | 6385.2 |
| 57.5° | 5735.2 | 5738.7 | 5856.9 | 6173.2 | 6340.1 | 6096.7 | 5968.1 | 5846.5 | 6225.3 | 6395.7 | 7063.0 |
| 60° | 5822.1 | 5811.7 | 6117.6 | 6632.0 | 7174.3 | 7247.3 | 7083.9 | 6833.6 | 6976.1 | 6986.6 | 7636.6 |
| 62.5° | 5634.4 | 5662.3 | 6082.8 | 6823.2 | 7674.8 | 8199.7 | 8175.3 | 7737.4 | 7605.3 | 7459.3 | 7789.5 |
| 65° | 4921.9 | 4960.1 | 5578.8 | 6482.6 | 7754.7 | 8776.7 | 8801.0 | 8290.0 | 7921.6 | 7514.9 | 7355.0 |
| 66° | 4379.6 | 4494.3 | 5182.6 | 6187.1 | 7608.8 | 8835.8 | 8880.9 | 8349.1 | 7907.7 | 7382.8 | 7010.9 |
| 67.5° | 3674.0 | 3667.1 | 4435.3 | 5537.1 | 7202.1 | 8783.6 | 8842.7 | 8265.7 | 7720.0 | 6993.5 | 6322.7 |
| 70° | 2248.9 | 2318.4 | 2978.9 | 4132.9 | 5961.2 | 8133.6 | 8213.6 | 7678.3 | 6910.1 | 5922.9 | 4675.1 |
| 72.5° | 1154.0 | 1268.7 | 1703.2 | 2686.9 | 4327.5 | 6722.4 | 6993.5 | 6447.8 | 5648.3 | 4285.8 | 2853.7 |
| 75° | 611.8 | 604.8 | 802.9 | 1456.4 | 2763.3 | 5043.5 | 5186.1 | 4835.0 | 3903.4 | 2554.8 | 1452.9 |
| 77.5° | 326.7 | 344.1 | 420.6 | 747.3 | 1519.0 | 3222.2 | 3402.9 | 3117.9 | 2224.6 | 1306.9 | 695.2 |
| 80° | 222.5 | 232.9 | 285.0 | 420.6 | 823.8 | 1748.4 | 1915.2 | 1661.5 | 1164.4 | 618.7 | 326.7 |
| 82.5° | 142.5 | 149.5 | 194.7 | 260.7 | 493.6 | 848.1 | 893.3 | 851.6 | 570.0 | 351.1 | 198.1 |
| 85° | 86.9 | 90.4 | 118.2 | 166.8 | 309.4 | 344.1 | 358.0 | 361.5 | 319.8 | 229.4 | 107.8 |
| 87.5° | 41.7 | 45.2 | 66.0 | 83.4 | 146.0 | 125.1 | 114.7 | 118.2 | 177.3 | 135.6 | 48.7 |
| 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: P573578

CATALOG NUMBER: ARCH-S-PA2-90-750-U-T4W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 |
| 2.5° | 1286.1 | 1282.6 | 1275.7 | 1272.2 | 1275.7 | 1275.7 | 1275.7 | 1279.1 | 1286.1 | 1286.1 | 1289.6 |
| 5° | 1286.1 | 1279.1 | 1272.2 | 1272.2 | 1279.1 | 1286.1 | 1293.0 | 1306.9 | 1313.9 | 1317.4 | 1317.4 |
| 7.5° | 1303.5 | 1296.5 | 1289.6 | 1289.6 | 1300.0 | 1313.9 | 1327.8 | 1345.2 | 1362.6 | 1376.5 | 1376.5 |
| 10° | 1338.2 | 1327.8 | 1320.8 | 1324.3 | 1341.7 | 1359.1 | 1376.5 | 1397.3 | 1414.7 | 1432.1 | 1432.1 |
| 12.5° | 1376.5 | 1366.0 | 1355.6 | 1362.6 | 1386.9 | 1407.7 | 1425.1 | 1435.5 | 1452.9 | 1466.8 | 1466.8 |
| 15° | 1414.7 | 1397.3 | 1393.8 | 1407.7 | 1432.1 | 1446.0 | 1452.9 | 1452.9 | 1459.9 | 1473.8 | 1473.8 |
| 17.5° | 1456.4 | 1439.0 | 1435.5 | 1449.5 | 1470.3 | 1470.3 | 1456.4 | 1446.0 | 1442.5 | 1452.9 | 1456.4 |
| 20° | 1498.1 | 1480.7 | 1480.7 | 1491.2 | 1487.7 | 1463.4 | 1439.0 | 1421.6 | 1407.7 | 1418.2 | 1421.6 |
| 22.5° | 1550.3 | 1532.9 | 1525.9 | 1512.0 | 1480.7 | 1432.1 | 1393.8 | 1373.0 | 1362.6 | 1369.5 | 1376.5 |
| 25° | 1602.4 | 1588.5 | 1571.1 | 1522.4 | 1449.5 | 1373.0 | 1324.3 | 1306.9 | 1310.4 | 1324.3 | 1331.3 |
| 27.5° | 1668.4 | 1661.5 | 1619.8 | 1515.5 | 1393.8 | 1289.6 | 1240.9 | 1237.4 | 1251.3 | 1272.2 | 1282.6 |
| 30° | 1748.4 | 1738.0 | 1665.0 | 1494.6 | 1317.4 | 1192.2 | 1157.5 | 1164.4 | 1185.3 | 1202.7 | 1213.1 |
| 32.5° | 1804.0 | 1797.0 | 1685.8 | 1446.0 | 1223.5 | 1105.3 | 1077.5 | 1077.5 | 1088.0 | 1112.3 | 1122.7 |
| 35° | 1821.4 | 1849.2 | 1699.7 | 1373.0 | 1112.3 | 1028.9 | 1001.1 | 983.7 | 983.7 | 1004.5 | 1011.5 |
| 37.5° | 1880.5 | 1943.0 | 1706.7 | 1275.7 | 1021.9 | 959.4 | 924.6 | 893.3 | 882.9 | 879.4 | 879.4 |
| 40° | 2016.0 | 2089.0 | 1703.2 | 1150.5 | 935.0 | 889.8 | 848.1 | 813.4 | 785.6 | 747.3 | 750.8 |
| 42.5° | 2252.4 | 2308.0 | 1692.8 | 1018.4 | 858.5 | 827.3 | 785.6 | 743.8 | 698.7 | 656.9 | 653.5 |
| 45° | 2707.7 | 2624.3 | 1665.0 | 903.7 | 789.0 | 771.7 | 733.4 | 684.8 | 629.1 | 590.9 | 590.9 |
| 47.5° | 3427.2 | 3197.8 | 1647.6 | 796.0 | 726.5 | 723.0 | 688.2 | 636.1 | 580.5 | 552.7 | 549.2 |
| 50° | 4414.4 | 3990.3 | 1675.4 | 719.5 | 670.9 | 681.3 | 653.5 | 604.8 | 559.6 | 535.3 | 531.8 |
| 52.5° | 5547.5 | 4841.9 | 1706.7 | 670.9 | 629.1 | 650.0 | 636.1 | 590.9 | 545.7 | 524.9 | 521.4 |
| 55° | 6423.5 | 5533.6 | 1661.5 | 625.7 | 587.4 | 618.7 | 618.7 | 577.0 | 538.8 | 517.9 | 517.9 |
| 57.5° | 7038.7 | 5811.7 | 1505.1 | 584.0 | 552.7 | 590.9 | 601.3 | 570.0 | 535.3 | 528.3 | 528.3 |
| 60° | 7302.9 | 5797.8 | 1230.5 | 545.7 | 528.3 | 563.1 | 590.9 | 563.1 | 542.2 | 559.6 | 563.1 |
| 62.5° | 7160.4 | 5495.4 | 955.9 | 517.9 | 511.0 | 556.1 | 601.3 | 590.9 | 566.6 | 580.5 | 587.4 |
| 65° | 6517.3 | 4963.6 | 719.5 | 493.6 | 490.1 | 559.6 | 629.1 | 608.3 | 549.2 | 552.7 | 556.1 |
| 66° | 6155.8 | 4605.6 | 660.4 | 486.6 | 483.2 | 563.1 | 643.0 | 601.3 | 535.3 | 542.2 | 538.8 |
| 67.5° | 5384.2 | 4042.5 | 580.5 | 472.7 | 469.2 | 563.1 | 660.4 | 587.4 | 517.9 | 528.3 | 517.9 |
| 70° | 3948.6 | 2860.7 | 497.1 | 455.3 | 448.4 | 552.7 | 656.9 | 559.6 | 479.7 | 472.7 | 455.3 |
| 72.5° | 2290.6 | 1731.0 | 441.4 | 434.5 | 417.1 | 486.6 | 615.2 | 514.4 | 438.0 | 417.1 | 399.7 |
| 75° | 1126.2 | 879.4 | 392.8 | 410.2 | 365.0 | 427.5 | 556.1 | 476.2 | 403.2 | 375.4 | 365.0 |
| 77.5° | 517.9 | 444.9 | 354.5 | 375.4 | 323.3 | 368.4 | 507.5 | 434.5 | 358.0 | 316.3 | 305.9 |
| 80° | 281.5 | 278.1 | 298.9 | 312.8 | 271.1 | 323.3 | 448.4 | 378.9 | 302.4 | 257.2 | 243.3 |
| 82.5° | 173.8 | 177.3 | 219.0 | 239.8 | 212.0 | 281.5 | 396.3 | 316.3 | 229.4 | 180.7 | 184.2 |
| 85° | 90.4 | 100.8 | 146.0 | 159.9 | 139.0 | 208.6 | 298.9 | 212.0 | 128.6 | 93.8 | 93.8 |
| 87.5° | 31.3 | 41.7 | 73.0 | 86.9 | 76.5 | 125.1 | 187.7 | 100.8 | 27.8 | 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)