

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: P572955

Luminaire Tested: **ARCH-S-PA2-130-830-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-130-830-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12882 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

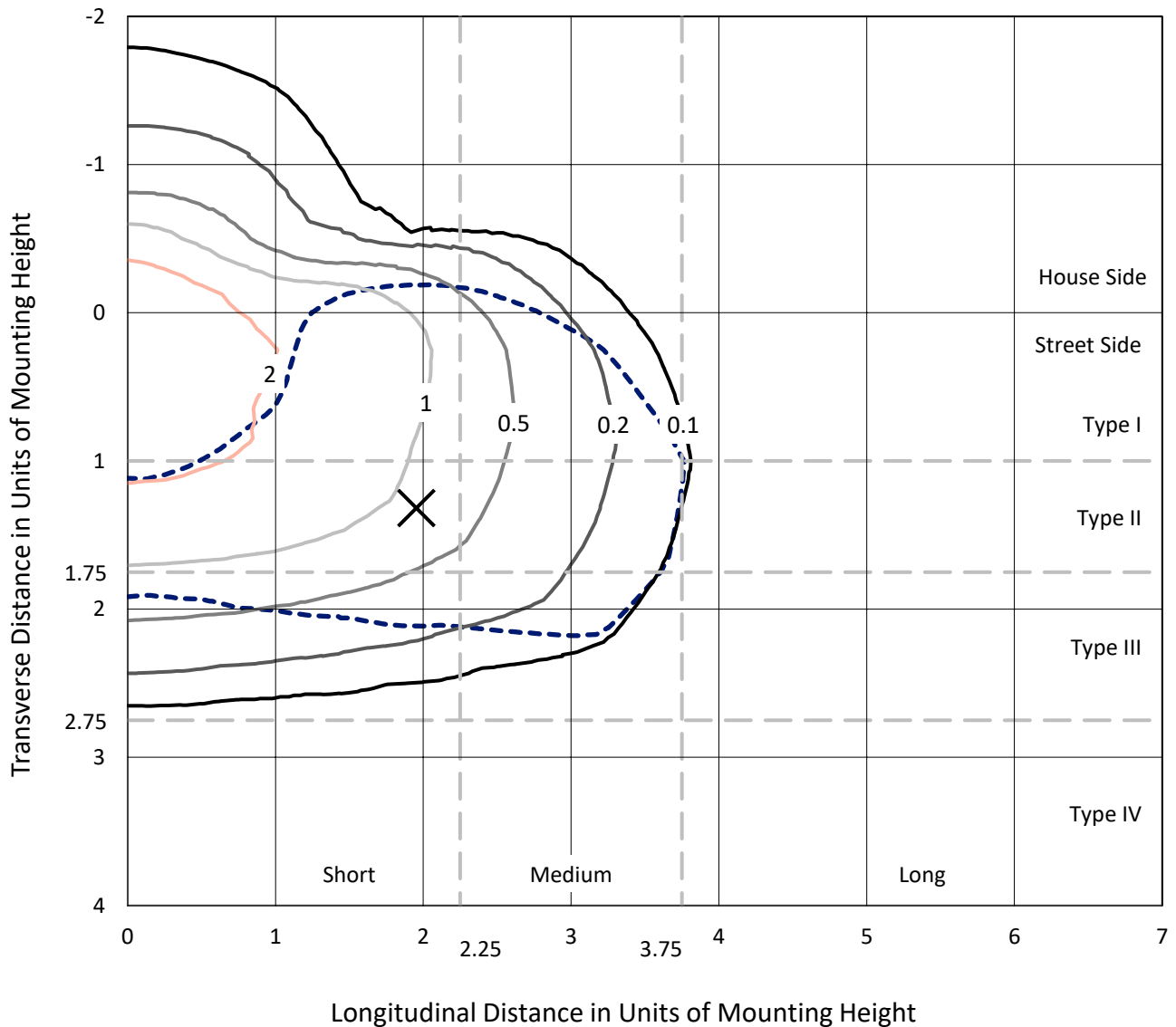
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

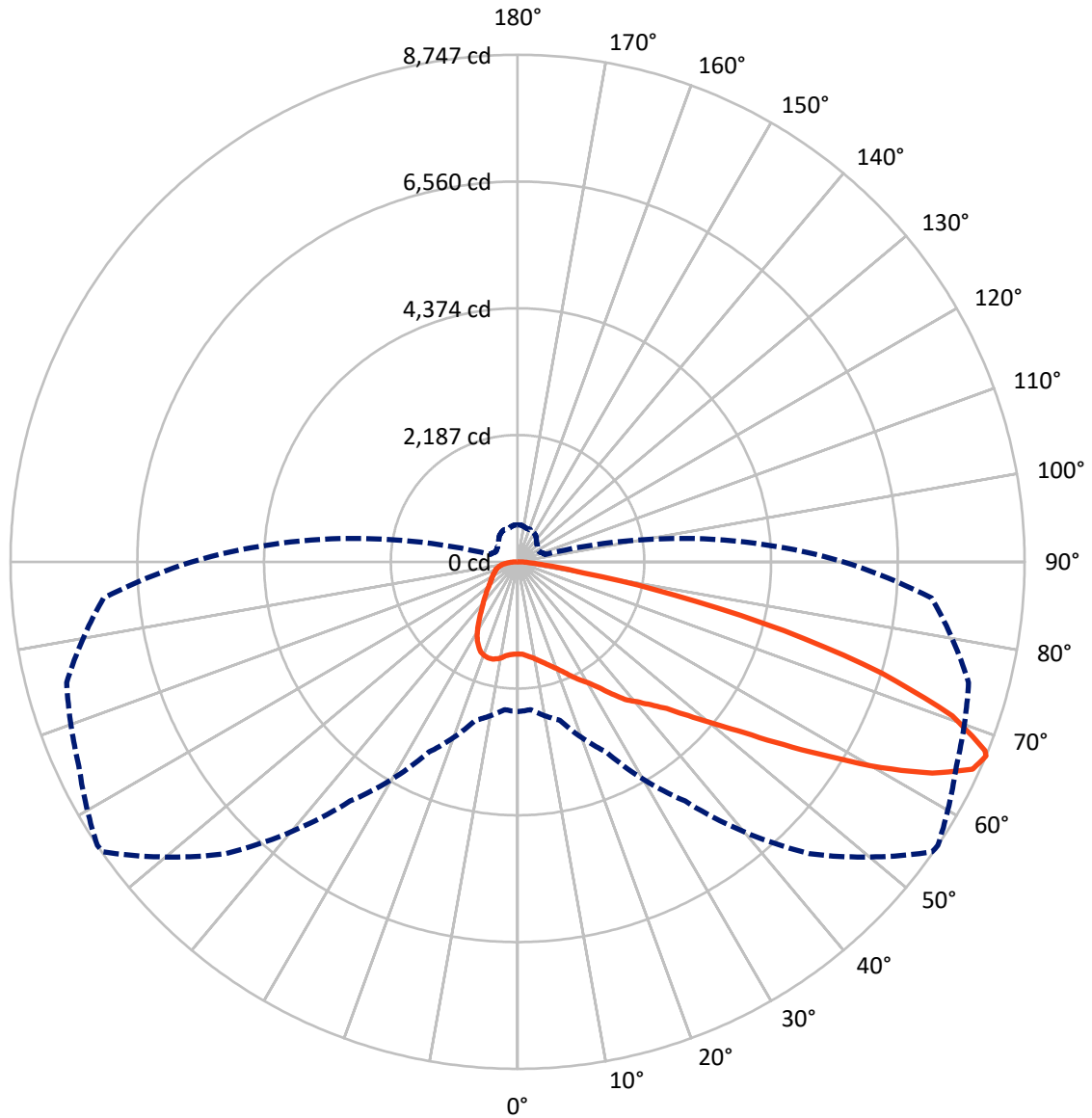
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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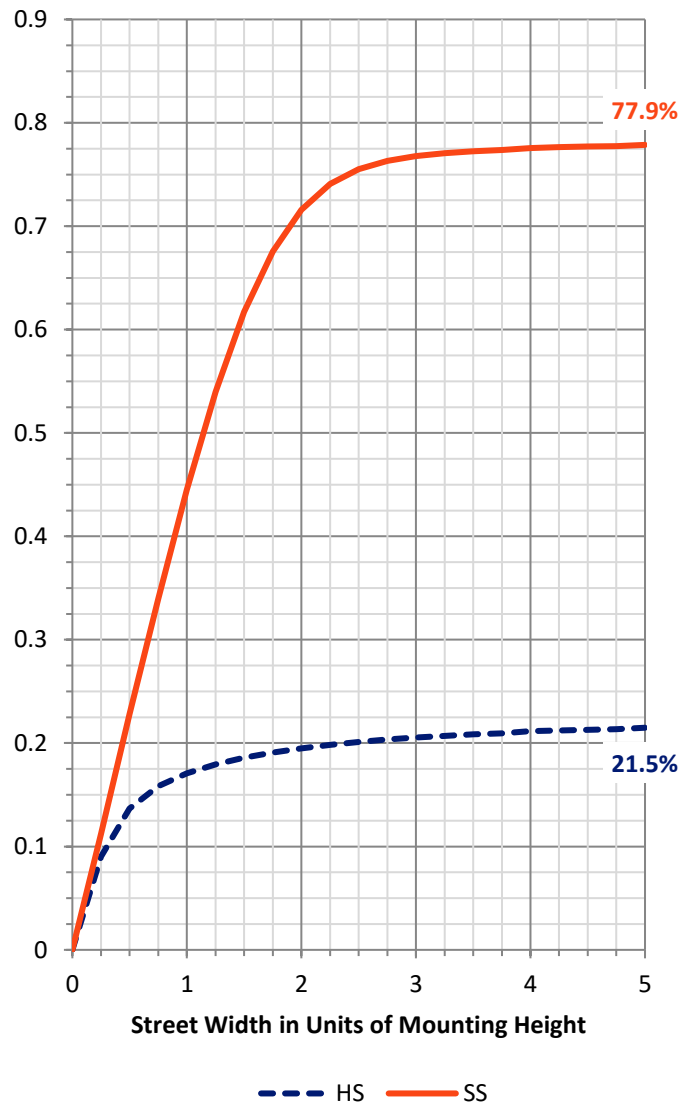
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2818.3 | 0.0 | 2818.3 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 10063.7 | 0.0 | 10063.7 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 12882.0 | 0.0 | 12882.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 156.5 | 1.2 |
| 10°-20° | 501.8 | 3.9 |
| 20°-30° | 873.3 | 6.8 |
| 30°-40° | 1280.5 | 9.9 |
| 40°-50° | 1873.5 | 14.5 |
| 50°-60° | 2928.0 | 22.7 |
| 60°-70° | 3480.1 | 27.0 |
| 70°-80° | 1585.0 | 12.3 |
| 80°-90° | 203.2 | 1.6 |
| 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° | 12882.0 | 100.0 |
| 0°-180° | 12882.0 | 100.0 |

Coefficient of Utilization



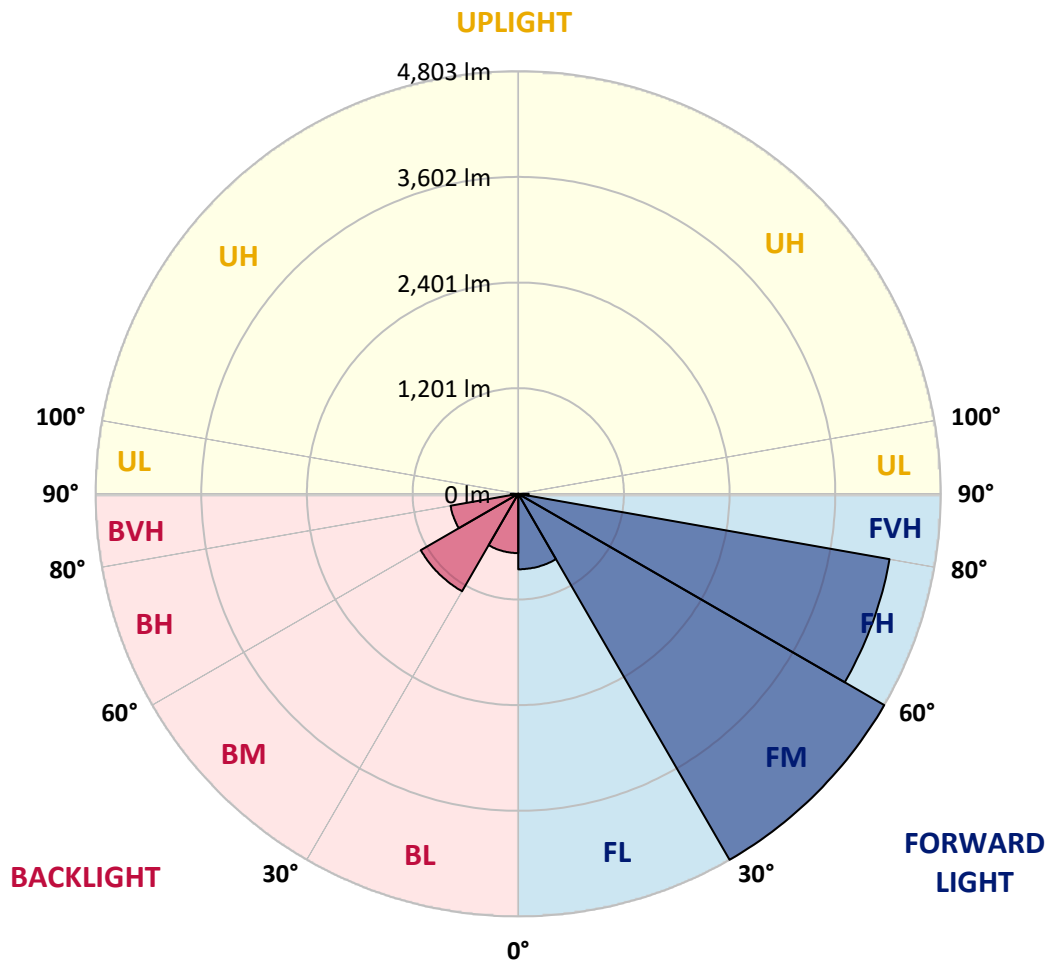
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 858.0 | 6.7 | | | |
| FM (30°-60°) | 4802.8 | 37.3 | | | |
| FH (60°-80°) | 4284.3 | 33.3 | | | G2/5000 |
| FVH (80°-90°) | 118.5 | 0.9 | | | G2/225 |
| BL (0°-30°) | 673.5 | 5.2 | B2/1000 | | |
| BM (30°-60°) | 1279.3 | 9.9 | B2/2500 | | |
| BH (60°-80°) | 780.8 | 6.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 84.7 | 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° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1590.4 | 1590.4 | 1590.4 | 1590.4 | 1590.4 | 1590.4 | 1590.4 | 1590.4 | 1590.4 | 1590.4 | 1590.4 |
| 2.5° | 1614.8 | 1607.9 | 1604.4 | 1607.9 | 1604.4 | 1597.4 | 1600.9 | 1597.4 | 1593.9 | 1590.4 | 1590.4 |
| 5° | 1635.8 | 1628.8 | 1625.3 | 1628.8 | 1632.3 | 1625.3 | 1625.3 | 1625.3 | 1614.8 | 1611.3 | 1604.4 |
| 7.5° | 1649.7 | 1639.3 | 1639.3 | 1646.2 | 1653.2 | 1656.7 | 1663.7 | 1660.2 | 1649.7 | 1642.7 | 1628.8 |
| 10° | 1695.1 | 1681.1 | 1681.1 | 1681.1 | 1688.1 | 1695.1 | 1702.0 | 1705.5 | 1702.0 | 1698.5 | 1688.1 |
| 12.5° | 1764.8 | 1750.9 | 1750.9 | 1750.9 | 1750.9 | 1747.4 | 1757.8 | 1761.3 | 1768.3 | 1768.3 | 1750.9 |
| 15° | 1859.0 | 1841.5 | 1834.6 | 1820.6 | 1817.1 | 1810.2 | 1824.1 | 1824.1 | 1834.6 | 1838.1 | 1820.6 |
| 17.5° | 1949.7 | 1928.7 | 1921.8 | 1907.8 | 1893.9 | 1876.4 | 1890.4 | 1893.9 | 1914.8 | 1918.3 | 1890.4 |
| 20° | 2043.8 | 2036.9 | 2026.4 | 2005.5 | 1981.1 | 1963.6 | 1977.6 | 1974.1 | 1991.5 | 1998.5 | 1963.6 |
| 22.5° | 2165.9 | 2148.5 | 2141.5 | 2113.6 | 2085.7 | 2068.2 | 2068.2 | 2075.2 | 2092.7 | 2092.7 | 2040.3 |
| 25° | 2312.4 | 2288.0 | 2270.5 | 2239.1 | 2204.3 | 2183.3 | 2186.8 | 2193.8 | 2218.2 | 2200.8 | 2120.6 |
| 27.5° | 2493.8 | 2469.3 | 2444.9 | 2382.1 | 2347.3 | 2305.4 | 2301.9 | 2308.9 | 2347.3 | 2301.9 | 2197.3 |
| 30° | 2664.7 | 2654.2 | 2633.3 | 2584.4 | 2528.6 | 2458.9 | 2427.5 | 2431.0 | 2458.9 | 2396.1 | 2263.6 |
| 32.5° | 2811.1 | 2797.2 | 2786.7 | 2751.8 | 2713.5 | 2629.8 | 2587.9 | 2591.4 | 2587.9 | 2511.2 | 2343.8 |
| 35° | 2985.5 | 2964.6 | 2957.6 | 2926.2 | 2877.4 | 2821.6 | 2804.2 | 2797.2 | 2776.3 | 2671.6 | 2448.4 |
| 37.5° | 3152.9 | 3132.0 | 3121.6 | 3104.1 | 3065.7 | 3016.9 | 3016.9 | 3013.4 | 2971.6 | 2825.1 | 2553.0 |
| 40° | 3351.7 | 3327.3 | 3295.9 | 3285.5 | 3254.1 | 3219.2 | 3191.3 | 3173.9 | 3100.6 | 2968.1 | 2755.3 |
| 42.5° | 3592.4 | 3578.5 | 3561.0 | 3515.7 | 3466.8 | 3459.9 | 3379.6 | 3372.7 | 3320.4 | 3243.6 | 3041.3 |
| 45° | 3937.7 | 3909.8 | 3885.4 | 3871.4 | 3812.1 | 3749.4 | 3637.7 | 3609.8 | 3609.8 | 3592.4 | 3376.2 |
| 47.5° | 4286.5 | 4237.6 | 4272.5 | 4262.1 | 4248.1 | 4178.3 | 3962.1 | 3965.6 | 3958.6 | 4004.0 | 3867.9 |
| 50° | 4520.1 | 4492.2 | 4589.9 | 4635.2 | 4732.9 | 4732.9 | 4422.5 | 4384.1 | 4412.0 | 4544.6 | 4370.2 |
| 52.5° | 4701.5 | 4684.1 | 4795.7 | 4973.6 | 5263.0 | 5290.9 | 4970.1 | 4889.9 | 4928.2 | 5116.6 | 5046.8 |
| 55° | 4848.0 | 4830.6 | 4959.6 | 5270.0 | 5733.9 | 5904.8 | 5601.4 | 5566.5 | 5489.7 | 5692.0 | 5713.0 |
| 57.5° | 4935.2 | 4896.8 | 5092.1 | 5507.2 | 6117.5 | 6511.7 | 6340.8 | 6330.3 | 6152.4 | 6340.8 | 6434.9 |
| 60° | 4802.7 | 4778.2 | 5046.8 | 5604.8 | 6428.0 | 7083.7 | 7209.2 | 7209.2 | 6891.8 | 6993.0 | 7108.1 |
| 62.5° | 4373.7 | 4342.3 | 4624.8 | 5378.1 | 6466.3 | 7551.0 | 8070.7 | 8028.8 | 7603.3 | 7599.8 | 7498.7 |
| 65° | 3557.5 | 3519.2 | 3836.5 | 4631.8 | 5981.5 | 7606.8 | 8653.2 | 8628.7 | 8137.0 | 7997.5 | 7523.1 |
| 67° | 2584.4 | 2560.0 | 2832.1 | 3620.3 | 5039.8 | 7122.0 | 8726.4 | 8747.3 | 8349.7 | 8053.3 | 7170.9 |
| 67.5° | 2319.4 | 2315.9 | 2542.6 | 3323.8 | 4764.3 | 6944.1 | 8677.6 | 8698.5 | 8346.2 | 8007.9 | 7031.3 |
| 70° | 1081.2 | 1130.0 | 1342.8 | 1904.3 | 3212.2 | 5468.8 | 7875.4 | 7955.6 | 7899.8 | 7484.8 | 5922.2 |
| 72.5° | 502.2 | 523.2 | 617.3 | 920.8 | 1726.4 | 3526.1 | 6382.6 | 6574.4 | 6818.6 | 6421.0 | 4691.0 |
| 75° | 310.4 | 317.4 | 369.7 | 477.8 | 812.6 | 1695.1 | 4544.6 | 4753.8 | 5123.5 | 4830.6 | 2999.5 |
| 77.5° | 244.1 | 247.6 | 282.5 | 341.8 | 474.3 | 728.9 | 2493.8 | 2755.3 | 3236.6 | 2856.5 | 1510.2 |
| 80° | 181.4 | 188.3 | 216.2 | 265.1 | 334.8 | 373.2 | 1060.3 | 1157.9 | 1562.5 | 1196.3 | 627.8 |
| 82.5° | 132.5 | 139.5 | 167.4 | 191.8 | 233.7 | 237.2 | 432.5 | 456.9 | 669.7 | 484.8 | 272.0 |
| 85° | 111.6 | 111.6 | 129.0 | 143.0 | 156.9 | 132.5 | 212.8 | 209.3 | 258.1 | 219.7 | 108.1 |
| 87.5° | 52.3 | 55.8 | 122.1 | 90.7 | 76.7 | 55.8 | 62.8 | 66.3 | 80.2 | 87.2 | 41.9 |
| 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-S-PA2-130-830-U-T3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1590.4 | 1590.4 | 1590.4 | 1590.4 | 1590.4 | 1590.4 | 1590.4 | 1590.4 | 1590.4 | 1590.4 | 1590.4 |
| 2.5° | 1586.9 | 1586.9 | 1586.9 | 1590.4 | 1593.9 | 1593.9 | 1597.4 | 1597.4 | 1600.9 | 1604.4 | 1611.3 |
| 5° | 1600.9 | 1600.9 | 1597.4 | 1600.9 | 1607.9 | 1611.3 | 1618.3 | 1625.3 | 1632.3 | 1639.3 | 1642.7 |
| 7.5° | 1628.8 | 1625.3 | 1625.3 | 1625.3 | 1632.3 | 1639.3 | 1649.7 | 1656.7 | 1667.2 | 1670.6 | 1677.6 |
| 10° | 1681.1 | 1674.1 | 1674.1 | 1677.6 | 1681.1 | 1670.6 | 1667.2 | 1663.7 | 1674.1 | 1681.1 | 1688.1 |
| 12.5° | 1743.9 | 1736.9 | 1733.4 | 1723.0 | 1709.0 | 1688.1 | 1670.6 | 1656.7 | 1660.2 | 1667.2 | 1677.6 |
| 15° | 1810.2 | 1796.2 | 1789.2 | 1764.8 | 1729.9 | 1684.6 | 1656.7 | 1639.3 | 1639.3 | 1639.3 | 1649.7 |
| 17.5° | 1879.9 | 1866.0 | 1838.1 | 1792.7 | 1726.4 | 1663.7 | 1628.8 | 1597.4 | 1583.4 | 1580.0 | 1586.9 |
| 20° | 1946.2 | 1925.2 | 1879.9 | 1810.2 | 1705.5 | 1621.8 | 1576.5 | 1524.2 | 1503.2 | 1489.3 | 1496.3 |
| 22.5° | 2009.0 | 1981.1 | 1918.3 | 1810.2 | 1670.6 | 1559.0 | 1478.8 | 1409.1 | 1374.2 | 1367.2 | 1370.7 |
| 25° | 2075.2 | 2040.3 | 1956.6 | 1789.2 | 1593.9 | 1464.9 | 1353.3 | 1280.0 | 1234.7 | 1227.7 | 1238.2 |
| 27.5° | 2141.5 | 2089.2 | 1988.0 | 1733.4 | 1506.7 | 1335.8 | 1217.2 | 1147.5 | 1123.1 | 1109.1 | 1112.6 |
| 30° | 2197.3 | 2148.5 | 2019.4 | 1656.7 | 1388.1 | 1185.8 | 1077.7 | 1046.3 | 1028.9 | 1021.9 | 1021.9 |
| 32.5° | 2270.5 | 2225.2 | 2040.3 | 1566.0 | 1248.6 | 1049.8 | 980.1 | 955.6 | 941.7 | 924.3 | 927.7 |
| 35° | 2361.2 | 2319.4 | 2029.9 | 1450.9 | 1116.1 | 959.1 | 903.3 | 868.5 | 837.1 | 812.6 | 809.2 |
| 37.5° | 2483.3 | 2451.9 | 1977.6 | 1311.4 | 994.0 | 892.9 | 837.1 | 791.7 | 746.4 | 708.0 | 701.0 |
| 40° | 2685.6 | 2612.3 | 1900.8 | 1157.9 | 910.3 | 840.6 | 774.3 | 718.5 | 662.7 | 620.8 | 610.4 |
| 42.5° | 2943.7 | 2790.2 | 1796.2 | 1001.0 | 840.6 | 784.7 | 718.5 | 645.2 | 592.9 | 554.6 | 554.6 |
| 45° | 3243.6 | 2982.0 | 1670.6 | 882.4 | 767.3 | 728.9 | 648.7 | 585.9 | 554.6 | 530.1 | 526.7 |
| 47.5° | 3599.4 | 3173.9 | 1510.2 | 788.2 | 708.0 | 680.1 | 599.9 | 561.5 | 540.6 | 519.7 | 516.2 |
| 50° | 4077.2 | 3432.0 | 1391.6 | 708.0 | 648.7 | 624.3 | 585.9 | 554.6 | 533.6 | 519.7 | 516.2 |
| 52.5° | 4624.8 | 3763.3 | 1307.9 | 645.2 | 599.9 | 589.4 | 582.5 | 558.0 | 537.1 | 526.7 | 523.2 |
| 55° | 5217.7 | 4171.4 | 1227.7 | 592.9 | 561.5 | 575.5 | 589.4 | 565.0 | 551.1 | 537.1 | 530.1 |
| 57.5° | 5775.7 | 4516.7 | 1098.6 | 547.6 | 533.6 | 558.0 | 585.9 | 568.5 | 551.1 | 540.6 | 537.1 |
| 60° | 6155.9 | 4691.0 | 920.8 | 505.7 | 505.7 | 533.6 | 575.5 | 551.1 | 533.6 | 537.1 | 537.1 |
| 62.5° | 6278.0 | 4624.8 | 728.9 | 467.4 | 477.8 | 505.7 | 544.1 | 530.1 | 523.2 | 540.6 | 540.6 |
| 65° | 6096.6 | 4356.2 | 582.5 | 436.0 | 449.9 | 470.8 | 526.7 | 540.6 | 561.5 | 599.9 | 603.4 |
| 67° | 5622.3 | 3923.7 | 491.8 | 411.6 | 425.5 | 460.4 | 547.6 | 596.4 | 596.4 | 638.3 | 638.3 |
| 67.5° | 5482.8 | 3777.3 | 477.8 | 404.6 | 422.0 | 460.4 | 558.0 | 610.4 | 596.4 | 645.2 | 645.2 |
| 70° | 4457.4 | 2971.6 | 404.6 | 383.7 | 408.1 | 484.8 | 603.4 | 613.8 | 582.5 | 627.8 | 624.3 |
| 72.5° | 3306.4 | 2148.5 | 369.7 | 362.7 | 380.2 | 456.9 | 599.9 | 589.4 | 544.1 | 558.0 | 547.6 |
| 75° | 2043.8 | 1245.1 | 341.8 | 334.8 | 345.3 | 404.6 | 554.6 | 537.1 | 484.8 | 474.3 | 463.9 |
| 77.5° | 987.0 | 631.3 | 293.0 | 303.4 | 313.9 | 352.3 | 488.3 | 470.8 | 425.5 | 401.1 | 397.6 |
| 80° | 429.0 | 324.4 | 251.1 | 268.6 | 272.0 | 299.9 | 404.6 | 383.7 | 341.8 | 303.4 | 303.4 |
| 82.5° | 212.8 | 181.4 | 198.8 | 223.2 | 216.2 | 240.7 | 317.4 | 282.5 | 251.1 | 209.3 | 202.3 |
| 85° | 97.7 | 104.6 | 146.5 | 167.4 | 146.5 | 150.0 | 216.2 | 198.8 | 156.9 | 118.6 | 122.1 |
| 87.5° | 34.9 | 48.8 | 83.7 | 101.1 | 73.2 | 69.8 | 115.1 | 83.7 | 48.8 | 14.0 | 17.4 |
| 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)