

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: P572800

Luminaire Tested: **ARCH-S-PA2-120-722-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-120-722-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11352 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

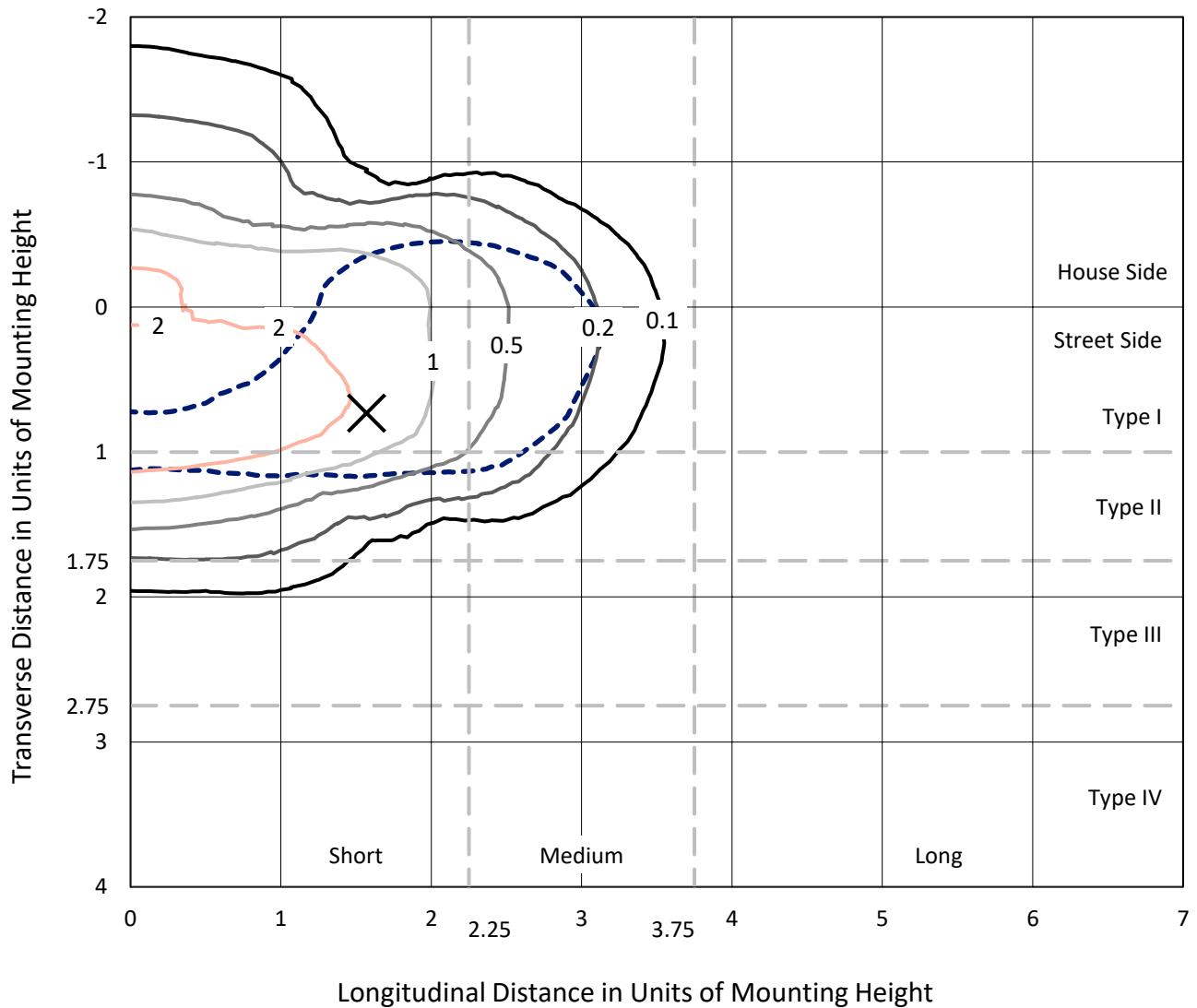
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

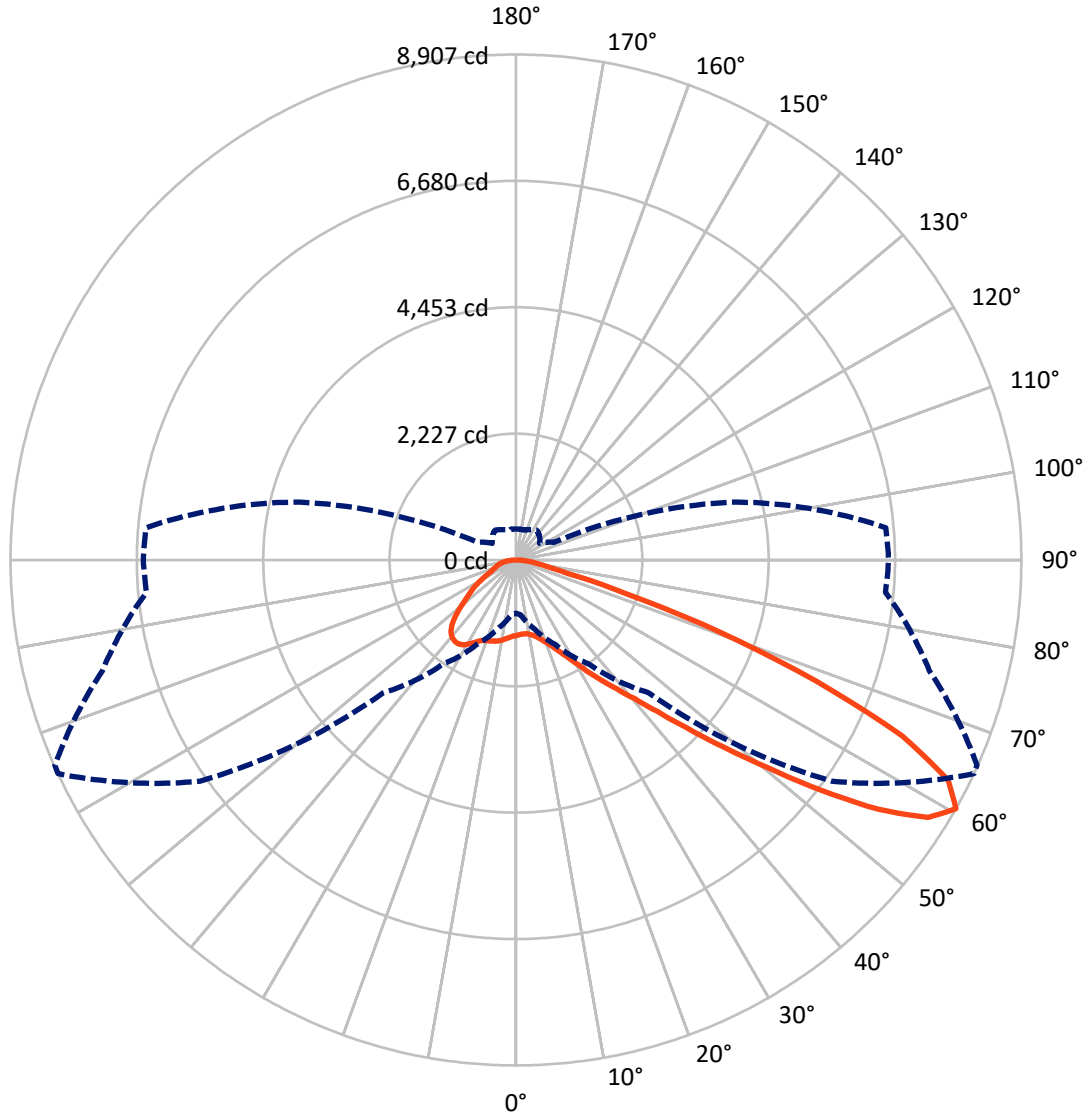
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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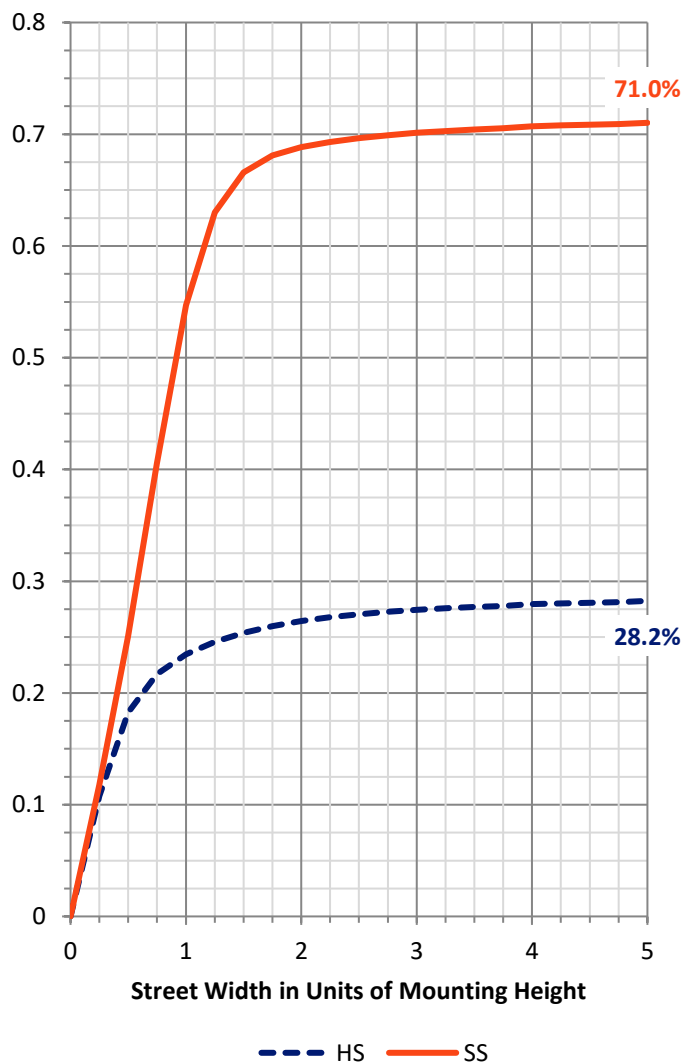
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3249.8 | 0.0 | 3249.8 |
| | % Fixture | 28.6 | 0.0 | 28.6 |
| Street Side | Lumens | 8102.2 | 0.0 | 8102.2 |
| | % Fixture | 71.4 | 0.0 | 71.4 |
| Total | Lumens | 11352.0 | 0.0 | 11352.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 128.7 | 1.1 |
| 10°-20° | 414.2 | 3.6 |
| 20°-30° | 793.9 | 7.0 |
| 30°-40° | 1378.9 | 12.1 |
| 40°-50° | 2338.6 | 20.6 |
| 50°-60° | 2912.0 | 25.7 |
| 60°-70° | 2346.5 | 20.7 |
| 70°-80° | 888.6 | 7.8 |
| 80°-90° | 150.7 | 1.3 |
| 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° | 11352.0 | 100.0 |
| 0°-180° | 11352.0 | 100.0 |

Coefficient of Utilization



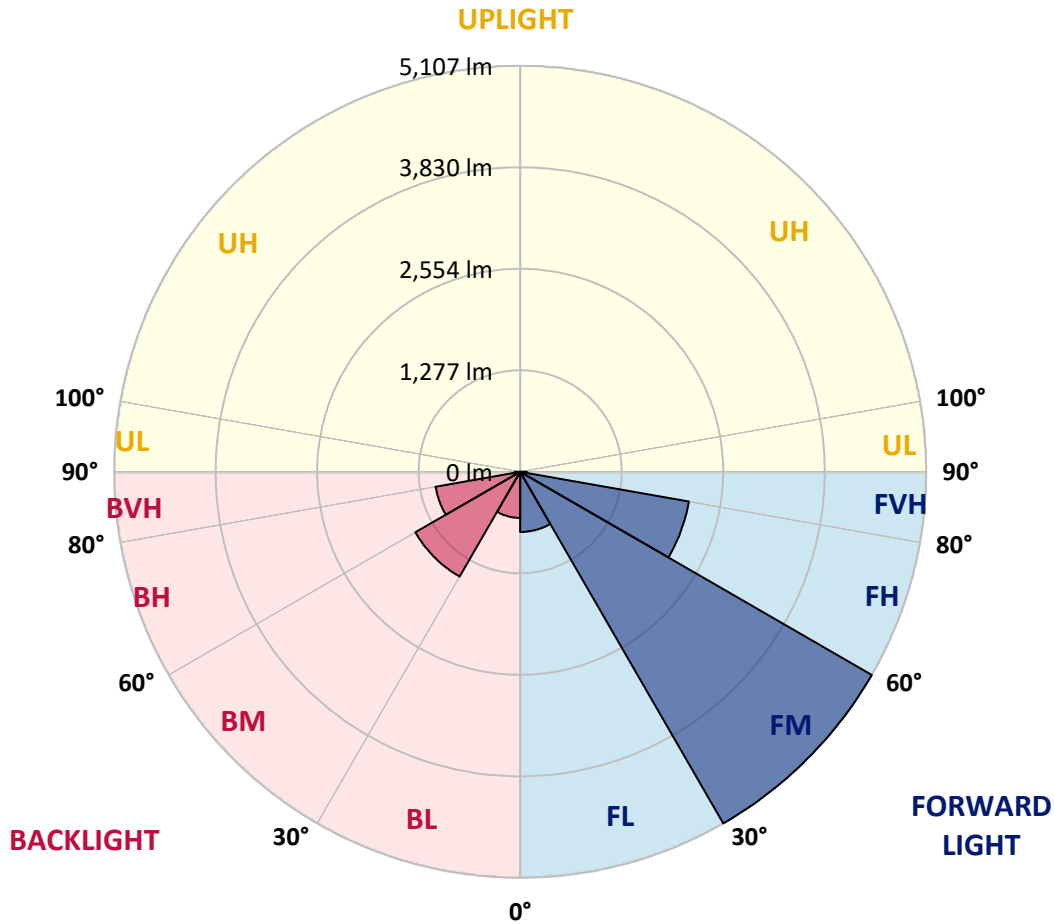
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 756.8 | 6.7 | | | |
| FM (30°-60°) | 5107.3 | 45.0 | | | |
| FH (60°-80°) | 2154.6 | 19.0 | | | G2/5000 |
| FVH (80°-90°) | 83.6 | 0.7 | | | G1/100 |
| BL (0°-30°) | 580.0 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1522.1 | 13.4 | B2/2500 | | |
| BH (60°-80°) | 1080.5 | 9.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 67.1 | 0.6 | | | G1/100 |
| 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1331.9 | 1331.9 | 1331.9 | 1331.9 | 1331.9 | 1331.9 | 1331.9 | 1331.9 | 1331.9 | 1331.9 | 1331.9 |
| 2.5° | 1300.8 | 1300.8 | 1300.8 | 1303.9 | 1307.0 | 1310.1 | 1316.4 | 1316.4 | 1316.4 | 1319.5 | 1325.7 |
| 5° | 1275.9 | 1272.8 | 1275.9 | 1279.0 | 1285.3 | 1291.5 | 1303.9 | 1310.1 | 1310.1 | 1322.6 | 1335.0 |
| 7.5° | 1279.0 | 1272.8 | 1272.8 | 1275.9 | 1282.1 | 1288.4 | 1300.8 | 1310.1 | 1313.3 | 1328.8 | 1350.6 |
| 10° | 1310.1 | 1300.8 | 1300.8 | 1303.9 | 1303.9 | 1310.1 | 1319.5 | 1331.9 | 1335.0 | 1350.6 | 1372.4 |
| 12.5° | 1375.5 | 1366.2 | 1363.1 | 1353.7 | 1344.4 | 1350.6 | 1359.9 | 1363.1 | 1366.2 | 1375.5 | 1397.3 |
| 15° | 1512.4 | 1496.9 | 1472.0 | 1453.3 | 1428.4 | 1412.8 | 1409.7 | 1412.8 | 1412.8 | 1416.0 | 1428.4 |
| 17.5° | 1708.5 | 1689.8 | 1652.5 | 1612.0 | 1552.9 | 1503.1 | 1487.5 | 1475.1 | 1475.1 | 1465.7 | 1465.7 |
| 20° | 1948.1 | 1920.1 | 1876.5 | 1817.4 | 1730.3 | 1640.0 | 1587.1 | 1559.1 | 1549.8 | 1534.2 | 1512.4 |
| 22.5° | 2225.1 | 2206.4 | 2150.4 | 2060.1 | 1929.4 | 1808.1 | 1720.9 | 1658.7 | 1658.7 | 1621.3 | 1574.7 |
| 25° | 2551.8 | 2517.6 | 2452.2 | 2346.4 | 2169.1 | 1994.8 | 1876.5 | 1786.3 | 1776.9 | 1717.8 | 1643.1 |
| 27.5° | 2869.3 | 2847.5 | 2766.6 | 2626.5 | 2414.9 | 2212.6 | 2047.7 | 1941.9 | 1926.3 | 1833.0 | 1717.8 |
| 30° | 3255.1 | 3230.2 | 3108.9 | 2912.8 | 2685.6 | 2455.4 | 2262.4 | 2125.5 | 2109.9 | 1982.3 | 1820.5 |
| 32.5° | 3734.4 | 3650.4 | 3501.0 | 3276.9 | 2984.4 | 2726.1 | 2505.2 | 2358.9 | 2340.2 | 2194.0 | 2001.0 |
| 35° | 4316.3 | 4244.8 | 3986.5 | 3749.9 | 3401.4 | 3062.2 | 2797.7 | 2604.7 | 2579.8 | 2405.6 | 2162.8 |
| 37.5° | 4727.1 | 4692.9 | 4515.5 | 4328.8 | 3930.4 | 3473.0 | 3149.3 | 2881.7 | 2856.8 | 2626.5 | 2312.2 |
| 40° | 4985.4 | 4951.2 | 4901.4 | 4848.5 | 4627.5 | 4110.9 | 3572.6 | 3208.5 | 3168.0 | 2950.2 | 2611.0 |
| 42.5° | 5119.2 | 5091.2 | 5100.5 | 5206.4 | 5268.6 | 5187.7 | 4176.3 | 3644.1 | 3616.1 | 3351.6 | 2975.1 |
| 45° | 5041.4 | 5022.7 | 5113.0 | 5393.1 | 5698.1 | 6295.6 | 4951.2 | 4216.7 | 4142.1 | 3827.7 | 3417.0 |
| 47.5° | 4668.0 | 4612.0 | 4823.6 | 5299.7 | 5953.2 | 6824.6 | 5884.8 | 4923.2 | 4842.3 | 4391.0 | 3865.1 |
| 50° | 3899.3 | 3883.8 | 4173.2 | 4776.9 | 5853.6 | 7033.1 | 6883.7 | 5757.2 | 5698.1 | 4997.9 | 4363.0 |
| 52.5° | 3183.6 | 3177.3 | 3401.4 | 3955.3 | 5218.8 | 6886.8 | 7608.8 | 6749.9 | 6572.5 | 5607.8 | 4904.5 |
| 55° | 2470.9 | 2467.8 | 2667.0 | 3080.9 | 4163.8 | 6199.1 | 7951.1 | 7761.3 | 7630.6 | 6273.8 | 5461.5 |
| 57.5° | 1689.8 | 1668.0 | 1926.3 | 2240.6 | 3127.5 | 4910.7 | 7727.1 | 8561.1 | 8480.2 | 6980.2 | 6052.8 |
| 60° | 939.8 | 970.9 | 1257.2 | 1646.2 | 2237.5 | 3308.0 | 6793.5 | 8906.5 | 8894.1 | 7543.5 | 6535.2 |
| 62.5° | 666.0 | 678.4 | 799.8 | 1170.1 | 1472.0 | 1895.2 | 5240.6 | 8548.6 | 8648.2 | 7854.7 | 6809.0 |
| 65° | 553.9 | 560.2 | 619.3 | 865.1 | 1076.7 | 1095.4 | 3267.6 | 7487.4 | 7618.1 | 7758.2 | 6868.2 |
| 67.5° | 522.8 | 525.9 | 557.0 | 638.0 | 843.3 | 793.6 | 1459.5 | 5716.7 | 5993.7 | 6980.2 | 6482.3 |
| 70° | 476.1 | 479.2 | 525.9 | 563.3 | 681.5 | 625.5 | 750.0 | 3796.6 | 4170.1 | 5517.6 | 5589.1 |
| 72.5° | 407.7 | 417.0 | 454.4 | 529.0 | 553.9 | 519.7 | 578.8 | 2029.0 | 2399.3 | 3690.8 | 4316.3 |
| 75° | 351.7 | 357.9 | 385.9 | 448.1 | 519.7 | 413.9 | 491.7 | 924.3 | 1083.0 | 2165.9 | 2732.3 |
| 77.5° | 283.2 | 286.3 | 326.8 | 367.2 | 435.7 | 336.1 | 382.8 | 553.9 | 581.9 | 1058.1 | 1235.5 |
| 80° | 214.7 | 214.7 | 242.7 | 292.5 | 323.6 | 323.6 | 280.1 | 385.9 | 401.4 | 504.1 | 488.6 |
| 82.5° | 164.9 | 161.8 | 183.6 | 205.4 | 233.4 | 270.7 | 211.6 | 255.2 | 261.4 | 305.0 | 261.4 |
| 85° | 108.9 | 108.9 | 121.4 | 140.0 | 155.6 | 149.4 | 164.9 | 149.4 | 155.6 | 189.8 | 143.2 |
| 87.5° | 46.7 | 46.7 | 65.4 | 62.2 | 68.5 | 71.6 | 80.9 | 71.6 | 71.6 | 87.1 | 65.4 |
| 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-PA2-120-722-U-T2U

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1331.9 | 1331.9 | 1331.9 | 1331.9 | 1331.9 | 1331.9 | 1331.9 | 1331.9 | 1331.9 | 1331.9 | 1331.9 |
| 2.5° | 1328.8 | 1331.9 | 1338.2 | 1341.3 | 1350.6 | 1353.7 | 1353.7 | 1359.9 | 1359.9 | 1366.2 | 1366.2 |
| 5° | 1338.2 | 1347.5 | 1356.8 | 1366.2 | 1375.5 | 1378.6 | 1384.8 | 1387.9 | 1387.9 | 1394.2 | 1391.1 |
| 7.5° | 1356.8 | 1366.2 | 1384.8 | 1394.2 | 1406.6 | 1412.8 | 1409.7 | 1412.8 | 1409.7 | 1412.8 | 1412.8 |
| 10° | 1381.7 | 1394.2 | 1416.0 | 1428.4 | 1437.7 | 1440.9 | 1431.5 | 1422.2 | 1409.7 | 1409.7 | 1409.7 |
| 12.5° | 1409.7 | 1419.1 | 1447.1 | 1456.4 | 1462.6 | 1453.3 | 1428.4 | 1409.7 | 1400.4 | 1403.5 | 1400.4 |
| 15° | 1437.7 | 1447.1 | 1468.9 | 1478.2 | 1478.2 | 1450.2 | 1428.4 | 1422.2 | 1419.1 | 1422.2 | 1422.2 |
| 17.5° | 1465.7 | 1475.1 | 1493.8 | 1493.8 | 1484.4 | 1462.6 | 1440.9 | 1419.1 | 1403.5 | 1394.2 | 1394.2 |
| 20° | 1503.1 | 1503.1 | 1509.3 | 1509.3 | 1506.2 | 1472.0 | 1419.1 | 1366.2 | 1335.0 | 1316.4 | 1313.3 |
| 22.5° | 1552.9 | 1540.4 | 1528.0 | 1528.0 | 1540.4 | 1450.2 | 1347.5 | 1266.6 | 1216.8 | 1210.6 | 1198.1 |
| 25° | 1605.8 | 1577.8 | 1546.7 | 1568.4 | 1546.7 | 1394.2 | 1247.9 | 1139.0 | 1079.9 | 1058.1 | 1064.3 |
| 27.5° | 1661.8 | 1618.2 | 1571.6 | 1633.8 | 1515.5 | 1285.3 | 1107.9 | 986.5 | 930.5 | 914.9 | 914.9 |
| 30° | 1739.6 | 1674.2 | 1605.8 | 1702.3 | 1456.4 | 1160.8 | 942.9 | 855.8 | 824.7 | 812.2 | 809.1 |
| 32.5° | 1889.0 | 1789.4 | 1689.8 | 1764.5 | 1391.1 | 998.9 | 830.9 | 778.0 | 740.7 | 728.2 | 737.5 |
| 35° | 2022.8 | 1882.8 | 1817.4 | 1792.5 | 1288.4 | 868.2 | 762.4 | 715.8 | 684.6 | 669.1 | 669.1 |
| 37.5° | 2144.2 | 2010.3 | 1960.6 | 1792.5 | 1154.5 | 787.3 | 718.9 | 681.5 | 641.1 | 628.6 | 628.6 |
| 40° | 2408.7 | 2231.3 | 2144.2 | 1767.6 | 989.6 | 746.9 | 697.1 | 653.5 | 619.3 | 606.8 | 603.7 |
| 42.5° | 2772.8 | 2533.2 | 2334.0 | 1711.6 | 849.6 | 728.2 | 684.6 | 634.8 | 606.8 | 597.5 | 594.4 |
| 45° | 3158.7 | 2947.1 | 2514.5 | 1612.0 | 759.3 | 709.5 | 681.5 | 628.6 | 594.4 | 585.1 | 581.9 |
| 47.5° | 3625.5 | 3407.6 | 2723.0 | 1459.5 | 697.1 | 697.1 | 678.4 | 619.3 | 588.2 | 578.8 | 578.8 |
| 50° | 4142.1 | 3961.6 | 2987.5 | 1285.3 | 650.4 | 687.7 | 672.2 | 619.3 | 585.1 | 575.7 | 572.6 |
| 52.5° | 4671.1 | 4587.1 | 3264.5 | 1114.1 | 603.7 | 675.3 | 669.1 | 619.3 | 578.8 | 569.5 | 569.5 |
| 55° | 5343.3 | 5274.8 | 3585.0 | 986.5 | 566.4 | 650.4 | 669.1 | 613.1 | 569.5 | 563.3 | 563.3 |
| 57.5° | 6003.0 | 5978.1 | 3834.0 | 874.5 | 538.4 | 619.3 | 659.7 | 603.7 | 560.2 | 557.0 | 557.0 |
| 60° | 6566.3 | 6541.4 | 3939.8 | 734.4 | 510.4 | 588.2 | 641.1 | 588.2 | 544.6 | 547.7 | 547.7 |
| 62.5° | 6914.8 | 6771.7 | 3862.0 | 606.8 | 482.4 | 560.2 | 619.3 | 569.5 | 529.0 | 538.4 | 535.3 |
| 65° | 6977.1 | 6644.1 | 3560.1 | 507.3 | 451.2 | 529.0 | 594.4 | 547.7 | 507.3 | 529.0 | 525.9 |
| 67.5° | 6519.6 | 5965.7 | 2993.7 | 441.9 | 420.1 | 494.8 | 566.4 | 516.6 | 482.4 | 513.5 | 504.1 |
| 70° | 5530.0 | 4845.4 | 2215.7 | 392.1 | 389.0 | 454.4 | 529.0 | 479.2 | 448.1 | 463.7 | 451.2 |
| 72.5° | 4117.2 | 3497.9 | 1434.6 | 354.8 | 354.8 | 407.7 | 476.1 | 432.6 | 401.4 | 404.6 | 392.1 |
| 75° | 2567.4 | 2150.4 | 815.3 | 320.5 | 320.5 | 361.0 | 423.2 | 379.7 | 357.9 | 345.4 | 361.0 |
| 77.5° | 1167.0 | 946.0 | 429.5 | 286.3 | 289.4 | 308.1 | 364.1 | 323.6 | 298.8 | 280.1 | 289.4 |
| 80° | 432.6 | 385.9 | 280.1 | 245.8 | 252.1 | 255.2 | 292.5 | 258.3 | 236.5 | 224.1 | 217.8 |
| 82.5° | 224.1 | 208.5 | 189.8 | 196.1 | 205.4 | 196.1 | 227.2 | 192.9 | 168.0 | 158.7 | 133.8 |
| 85° | 112.0 | 108.9 | 115.1 | 130.7 | 143.2 | 121.4 | 136.9 | 124.5 | 102.7 | 74.7 | 74.7 |
| 87.5° | 43.6 | 46.7 | 43.6 | 59.1 | 65.4 | 56.0 | 62.2 | 43.6 | 31.1 | 15.6 | 12.4 |
| 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)