

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: P573223

Luminaire Tested: **ARCH-S-PA2-50-730-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573223
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-PA2-50-730-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 520mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7210 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

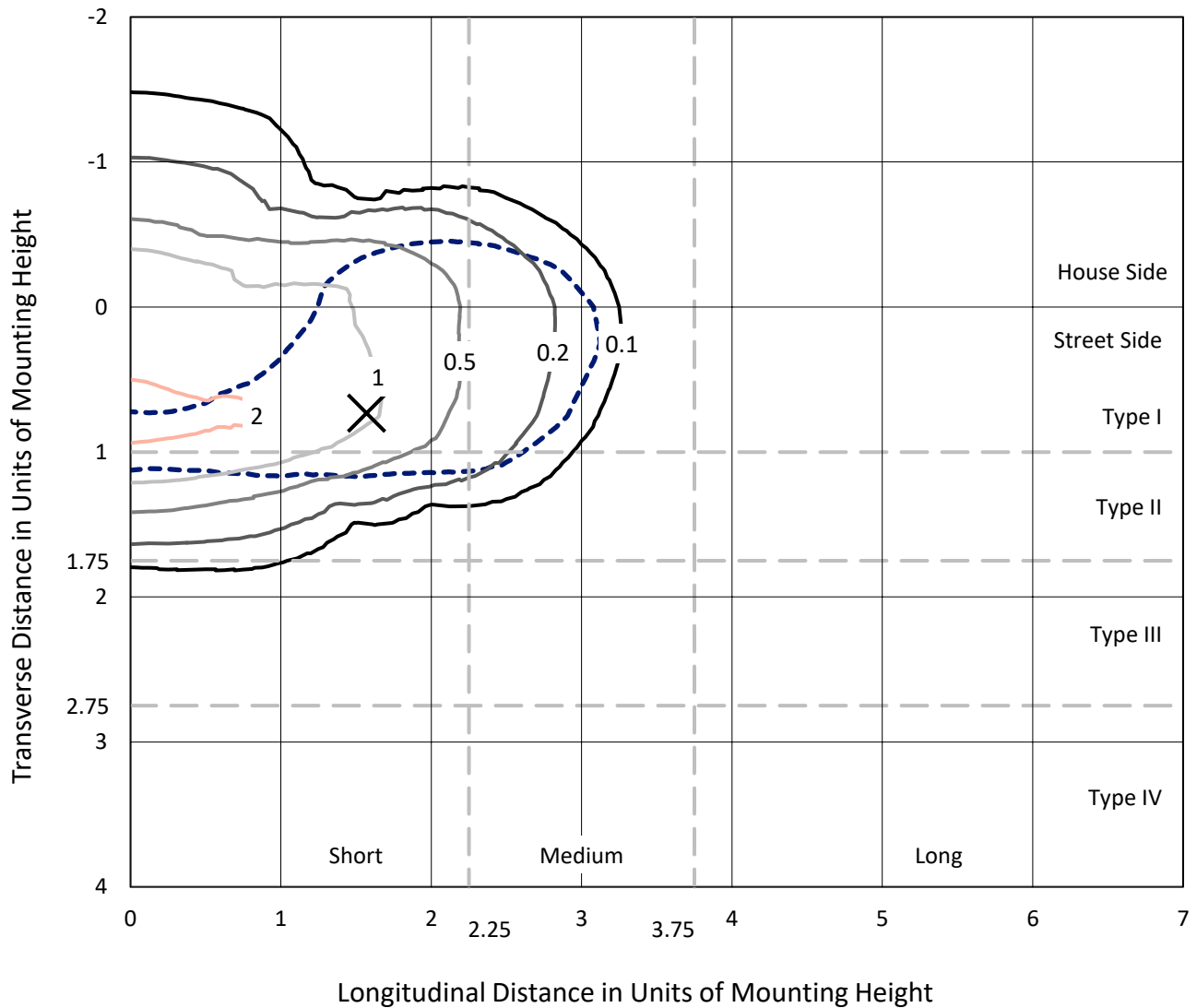
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

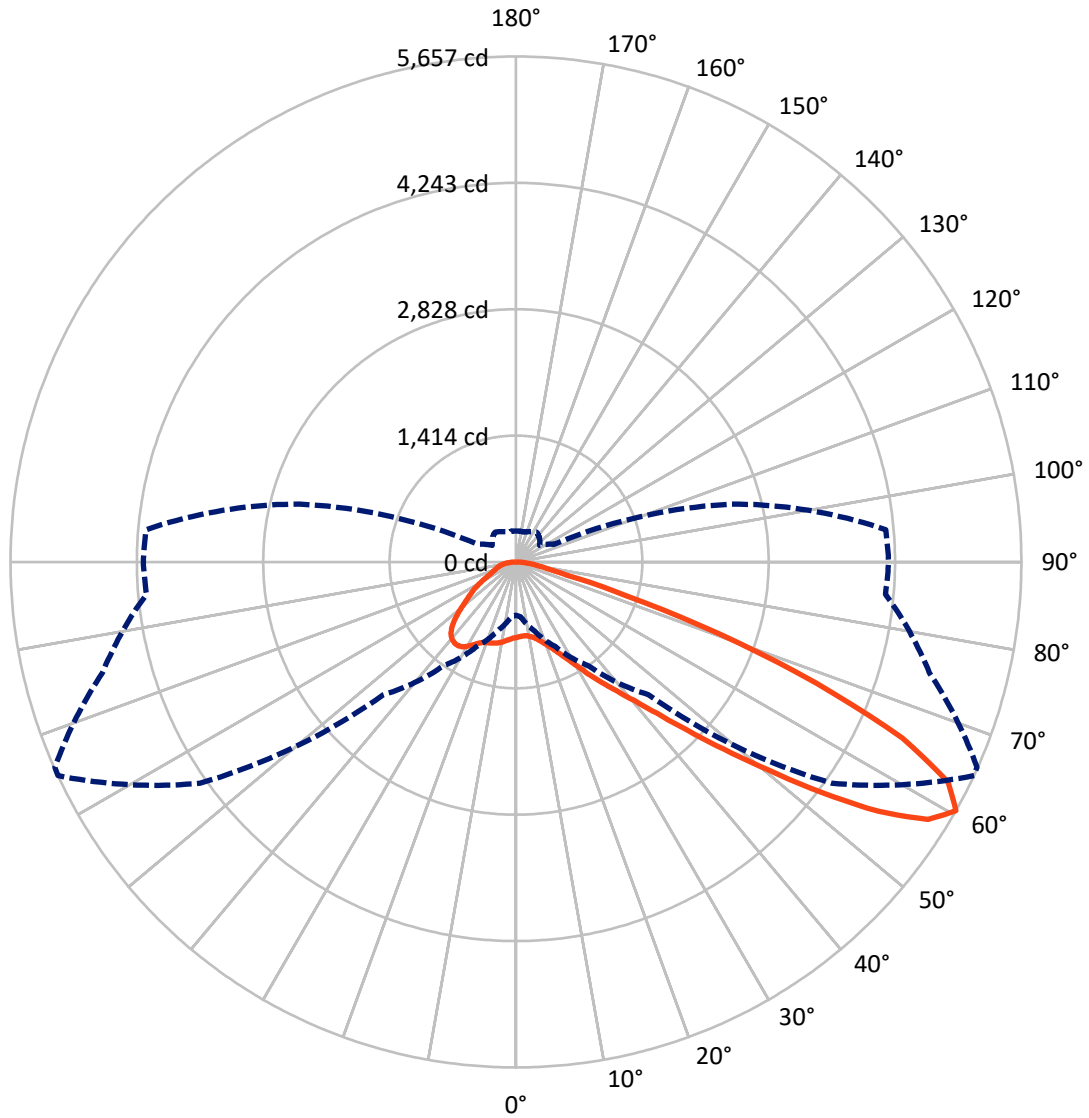
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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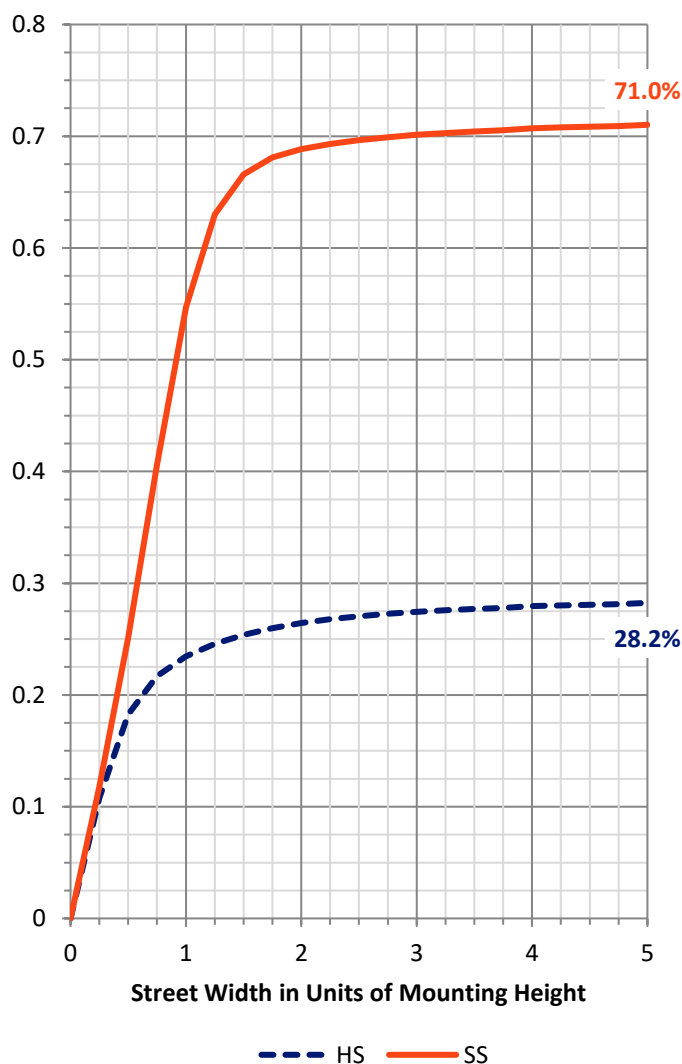
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2064.0 | 0.0 | 2064.0 |
| | % Fixture | 28.6 | 0.0 | 28.6 |
| Street Side | Lumens | 5146.0 | 0.0 | 5146.0 |
| | % Fixture | 71.4 | 0.0 | 71.4 |
| Total | Lumens | 7210.0 | 0.0 | 7210.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 81.7 | 1.1 |
| 10°-20° | 263.0 | 3.6 |
| 20°-30° | 504.3 | 7.0 |
| 30°-40° | 875.8 | 12.1 |
| 40°-50° | 1485.3 | 20.6 |
| 50°-60° | 1849.5 | 25.7 |
| 60°-70° | 1490.4 | 20.7 |
| 70°-80° | 564.3 | 7.8 |
| 80°-90° | 95.7 | 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° | 7210.0 | 100.0 |
| 0°-180° | 7210.0 | 100.0 |

Coefficient of Utilization



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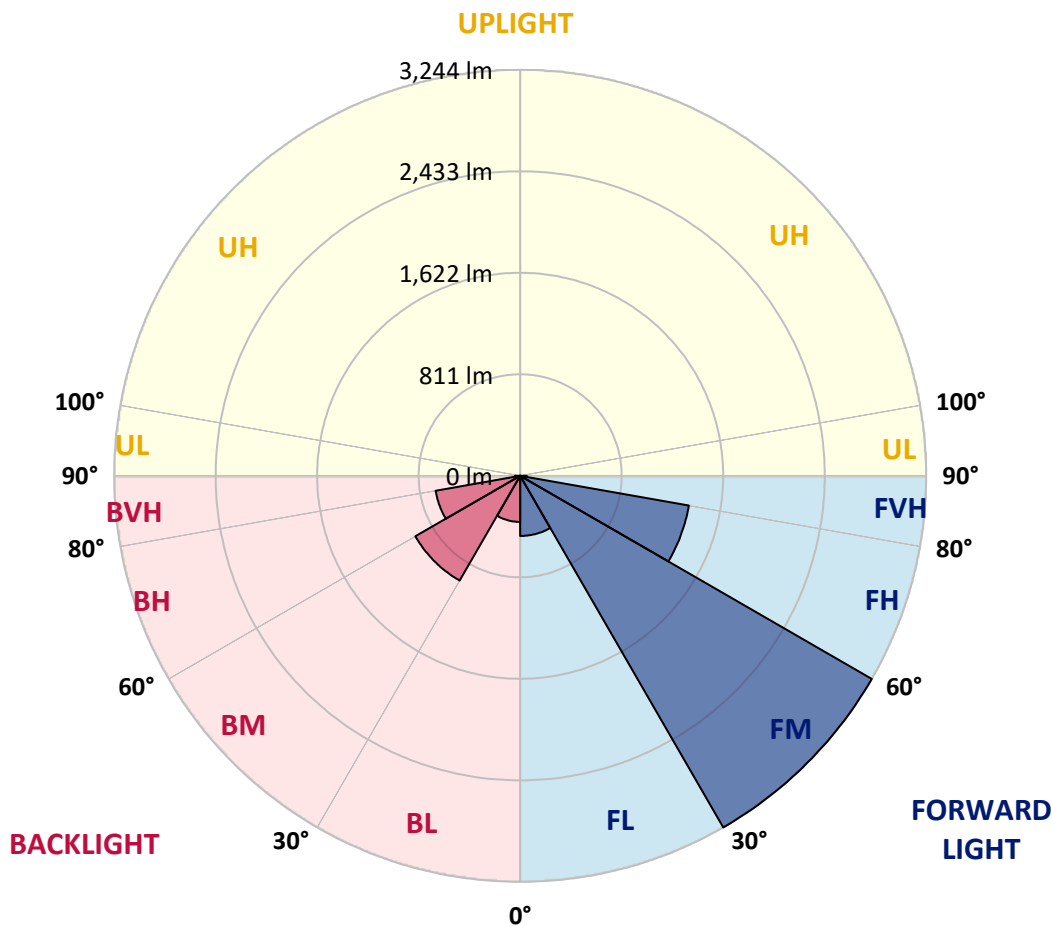
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 480.7 | 6.7 | | | |
| FM (30°-60°) | 3243.8 | 45.0 | | | |
| FH (60°-80°) | 1368.4 | 19.0 | | | G1/1800 |
| FVH (80°-90°) | 53.1 | 0.7 | | | G1/100 |
| BL (0°-30°) | 368.4 | 5.1 | B1/500 | | |
| BM (30°-60°) | 966.8 | 13.4 | B1/1000 | | |
| BH (60°-80°) | 686.3 | 9.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 42.6 | 0.6 | | | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 845.9 | 845.9 | 845.9 | 845.9 | 845.9 | 845.9 | 845.9 | 845.9 | 845.9 | 845.9 | 845.9 |
| 2.5° | 826.2 | 826.2 | 826.2 | 828.2 | 830.1 | 832.1 | 836.1 | 836.1 | 836.1 | 838.0 | 842.0 |
| 5° | 810.4 | 808.4 | 810.4 | 812.3 | 816.3 | 820.3 | 828.2 | 828.2 | 832.1 | 840.0 | 847.9 |
| 7.5° | 812.3 | 808.4 | 808.4 | 810.4 | 814.3 | 818.3 | 826.2 | 832.1 | 834.1 | 844.0 | 857.8 |
| 10° | 832.1 | 826.2 | 826.2 | 828.2 | 828.2 | 832.1 | 838.0 | 845.9 | 847.9 | 857.8 | 871.6 |
| 12.5° | 873.6 | 867.7 | 865.7 | 859.8 | 853.9 | 857.8 | 863.7 | 865.7 | 867.7 | 873.6 | 887.5 |
| 15° | 960.6 | 950.7 | 934.9 | 923.0 | 907.2 | 897.3 | 895.4 | 897.3 | 897.3 | 899.3 | 907.2 |
| 17.5° | 1085.1 | 1073.2 | 1049.5 | 1023.8 | 986.3 | 954.7 | 944.8 | 936.9 | 936.9 | 930.9 | 930.9 |
| 20° | 1237.3 | 1219.5 | 1191.8 | 1154.3 | 1098.9 | 1041.6 | 1008.0 | 990.2 | 984.3 | 974.4 | 960.6 |
| 22.5° | 1413.2 | 1401.4 | 1365.8 | 1308.5 | 1225.4 | 1148.4 | 1093.0 | 1053.5 | 1053.5 | 1029.8 | 1000.1 |
| 25° | 1620.7 | 1599.0 | 1557.5 | 1490.3 | 1377.6 | 1266.9 | 1191.8 | 1134.5 | 1128.6 | 1091.0 | 1043.6 |
| 27.5° | 1822.3 | 1808.5 | 1757.1 | 1668.2 | 1533.8 | 1405.3 | 1300.5 | 1233.3 | 1223.5 | 1164.2 | 1091.0 |
| 30° | 2067.4 | 2051.6 | 1974.5 | 1850.0 | 1705.7 | 1559.5 | 1436.9 | 1350.0 | 1340.1 | 1259.0 | 1156.3 |
| 32.5° | 2371.8 | 2318.5 | 2223.6 | 2081.3 | 1895.5 | 1731.4 | 1591.1 | 1498.2 | 1486.3 | 1393.4 | 1270.9 |
| 35° | 2741.4 | 2696.0 | 2531.9 | 2381.7 | 2160.3 | 1944.9 | 1776.9 | 1654.3 | 1638.5 | 1527.8 | 1373.7 |
| 37.5° | 3002.3 | 2980.6 | 2867.9 | 2749.3 | 2496.3 | 2205.8 | 2000.2 | 1830.3 | 1814.4 | 1668.2 | 1468.6 |
| 40° | 3166.4 | 3144.6 | 3113.0 | 3079.4 | 2939.1 | 2611.0 | 2269.0 | 2037.8 | 2012.1 | 1873.7 | 1658.3 |
| 42.5° | 3251.4 | 3233.6 | 3239.5 | 3306.7 | 3346.2 | 3294.9 | 2652.5 | 2314.5 | 2296.7 | 2128.7 | 1889.6 |
| 45° | 3202.0 | 3190.1 | 3247.4 | 3425.3 | 3619.0 | 3998.5 | 3144.6 | 2678.2 | 2630.7 | 2431.1 | 2170.2 |
| 47.5° | 2964.8 | 2929.2 | 3063.6 | 3366.0 | 3781.1 | 4334.5 | 3737.6 | 3126.9 | 3075.5 | 2788.9 | 2454.8 |
| 50° | 2476.6 | 2466.7 | 2650.5 | 3034.0 | 3717.8 | 4466.9 | 4372.1 | 3656.6 | 3619.0 | 3174.3 | 2771.1 |
| 52.5° | 2022.0 | 2018.0 | 2160.3 | 2512.2 | 3314.6 | 4374.0 | 4832.6 | 4287.1 | 4174.4 | 3561.7 | 3115.0 |
| 55° | 1569.4 | 1567.4 | 1693.9 | 1956.8 | 2644.6 | 3937.2 | 5050.0 | 4929.4 | 4846.4 | 3984.7 | 3468.8 |
| 57.5° | 1073.2 | 1059.4 | 1223.5 | 1423.1 | 1986.4 | 3118.9 | 4907.7 | 5437.4 | 5386.0 | 4433.3 | 3844.3 |
| 60° | 596.9 | 616.7 | 798.5 | 1045.6 | 1421.1 | 2101.0 | 4314.7 | 5656.8 | 5648.9 | 4791.1 | 4150.7 |
| 62.5° | 423.0 | 430.9 | 508.0 | 743.2 | 934.9 | 1203.7 | 3328.5 | 5429.5 | 5492.7 | 4988.7 | 4324.6 |
| 65° | 351.8 | 355.8 | 393.3 | 549.5 | 683.9 | 695.7 | 2075.3 | 4755.5 | 4838.5 | 4927.5 | 4362.2 |
| 67.5° | 332.1 | 334.0 | 353.8 | 405.2 | 535.6 | 504.0 | 927.0 | 3630.9 | 3806.8 | 4433.3 | 4117.1 |
| 70° | 302.4 | 304.4 | 334.0 | 357.7 | 432.9 | 397.3 | 476.3 | 2411.4 | 2648.5 | 3504.4 | 3549.8 |
| 72.5° | 258.9 | 264.9 | 288.6 | 336.0 | 351.8 | 330.1 | 367.6 | 1288.7 | 1523.9 | 2344.2 | 2741.4 |
| 75° | 223.3 | 227.3 | 245.1 | 284.6 | 330.1 | 262.9 | 312.3 | 587.0 | 687.8 | 1375.7 | 1735.4 |
| 77.5° | 179.9 | 181.8 | 207.5 | 233.2 | 276.7 | 213.5 | 243.1 | 351.8 | 369.6 | 672.0 | 784.7 |
| 80° | 136.4 | 136.4 | 154.2 | 185.8 | 205.6 | 205.6 | 177.9 | 245.1 | 255.0 | 320.2 | 310.3 |
| 82.5° | 104.8 | 102.8 | 116.6 | 130.5 | 148.2 | 172.0 | 134.4 | 162.1 | 166.0 | 193.7 | 166.0 |
| 85° | 69.2 | 69.2 | 77.1 | 88.9 | 98.8 | 94.9 | 104.8 | 94.9 | 98.8 | 120.6 | 90.9 |
| 87.5° | 29.6 | 29.6 | 41.5 | 39.5 | 43.5 | 45.5 | 51.4 | 45.5 | 45.5 | 55.3 | 41.5 |
| 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-PA2-50-730-U-T2U

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 845.9 | 845.9 | 845.9 | 845.9 | 845.9 | 845.9 | 845.9 | 845.9 | 845.9 | 845.9 | 845.9 |
| 2.5° | 844.0 | 845.9 | 849.9 | 851.9 | 857.8 | 859.8 | 859.8 | 863.7 | 863.7 | 867.7 | 867.7 |
| 5° | 849.9 | 855.8 | 861.8 | 867.7 | 873.6 | 875.6 | 879.6 | 881.5 | 881.5 | 885.5 | 883.5 |
| 7.5° | 861.8 | 867.7 | 879.6 | 885.5 | 893.4 | 897.3 | 895.4 | 897.3 | 895.4 | 897.3 | 897.3 |
| 10° | 877.6 | 885.5 | 899.3 | 907.2 | 913.2 | 915.1 | 909.2 | 903.3 | 895.4 | 895.4 | 895.4 |
| 12.5° | 895.4 | 901.3 | 919.1 | 925.0 | 929.0 | 923.0 | 907.2 | 895.4 | 889.4 | 891.4 | 889.4 |
| 15° | 913.2 | 919.1 | 932.9 | 938.8 | 938.8 | 921.1 | 907.2 | 903.3 | 901.3 | 903.3 | 903.3 |
| 17.5° | 930.9 | 936.9 | 948.7 | 948.7 | 942.8 | 929.0 | 915.1 | 901.3 | 891.4 | 885.5 | 885.5 |
| 20° | 954.7 | 954.7 | 958.6 | 958.6 | 956.6 | 934.9 | 901.3 | 867.7 | 847.9 | 836.1 | 834.1 |
| 22.5° | 986.3 | 978.4 | 970.5 | 970.5 | 978.4 | 921.1 | 855.8 | 804.4 | 772.8 | 768.9 | 761.0 |
| 25° | 1019.9 | 1002.1 | 982.3 | 996.2 | 982.3 | 885.5 | 792.6 | 723.4 | 685.9 | 672.0 | 676.0 |
| 27.5° | 1055.5 | 1027.8 | 998.1 | 1037.7 | 962.6 | 816.3 | 703.6 | 626.6 | 591.0 | 581.1 | 581.1 |
| 30° | 1104.9 | 1063.4 | 1019.9 | 1081.2 | 925.0 | 737.2 | 598.9 | 543.5 | 523.8 | 515.9 | 513.9 |
| 32.5° | 1199.7 | 1136.5 | 1073.2 | 1120.7 | 883.5 | 634.5 | 527.7 | 494.1 | 470.4 | 462.5 | 468.4 |
| 35° | 1284.7 | 1195.8 | 1154.3 | 1138.5 | 818.3 | 551.4 | 484.2 | 454.6 | 434.8 | 425.0 | 425.0 |
| 37.5° | 1361.8 | 1276.8 | 1245.2 | 1138.5 | 733.3 | 500.1 | 456.6 | 432.9 | 407.2 | 399.3 | 399.3 |
| 40° | 1529.8 | 1417.2 | 1361.8 | 1122.7 | 628.5 | 474.4 | 442.7 | 415.1 | 393.3 | 385.4 | 383.4 |
| 42.5° | 1761.1 | 1608.9 | 1482.4 | 1087.1 | 539.6 | 462.5 | 434.8 | 403.2 | 385.4 | 379.5 | 377.5 |
| 45° | 2006.2 | 1871.8 | 1597.0 | 1023.8 | 482.3 | 450.6 | 432.9 | 399.3 | 377.5 | 371.6 | 369.6 |
| 47.5° | 2302.6 | 2164.3 | 1729.5 | 927.0 | 442.7 | 442.7 | 430.9 | 393.3 | 373.6 | 367.6 | 367.6 |
| 50° | 2630.7 | 2516.1 | 1897.5 | 816.3 | 413.1 | 436.8 | 426.9 | 393.3 | 371.6 | 365.7 | 363.7 |
| 52.5° | 2966.8 | 2913.4 | 2073.4 | 707.6 | 383.4 | 428.9 | 425.0 | 393.3 | 367.6 | 361.7 | 361.7 |
| 55° | 3393.7 | 3350.2 | 2276.9 | 626.6 | 359.7 | 413.1 | 425.0 | 389.4 | 361.7 | 357.7 | 357.7 |
| 57.5° | 3812.7 | 3796.9 | 2435.1 | 555.4 | 341.9 | 393.3 | 419.0 | 383.4 | 355.8 | 353.8 | 353.8 |
| 60° | 4170.5 | 4154.6 | 2502.3 | 466.5 | 324.1 | 373.6 | 407.2 | 373.6 | 345.9 | 347.9 | 347.9 |
| 62.5° | 4391.8 | 4300.9 | 2452.9 | 385.4 | 306.4 | 355.8 | 393.3 | 361.7 | 336.0 | 341.9 | 340.0 |
| 65° | 4431.4 | 4219.9 | 2261.1 | 322.2 | 286.6 | 336.0 | 377.5 | 347.9 | 322.2 | 336.0 | 334.0 |
| 67.5° | 4140.8 | 3789.0 | 1901.4 | 280.7 | 266.8 | 314.3 | 359.7 | 328.1 | 306.4 | 326.1 | 320.2 |
| 70° | 3512.3 | 3077.4 | 1407.3 | 249.0 | 247.1 | 288.6 | 336.0 | 304.4 | 284.6 | 294.5 | 286.6 |
| 72.5° | 2614.9 | 2221.6 | 911.2 | 225.3 | 225.3 | 258.9 | 302.4 | 274.7 | 255.0 | 256.9 | 249.0 |
| 75° | 1630.6 | 1365.8 | 517.8 | 203.6 | 203.6 | 229.3 | 268.8 | 241.1 | 227.3 | 219.4 | 229.3 |
| 77.5° | 741.2 | 600.9 | 272.8 | 181.8 | 183.8 | 195.7 | 231.3 | 205.6 | 189.7 | 177.9 | 183.8 |
| 80° | 274.7 | 245.1 | 177.9 | 156.1 | 160.1 | 162.1 | 185.8 | 164.1 | 150.2 | 142.3 | 138.4 |
| 82.5° | 142.3 | 132.4 | 120.6 | 124.5 | 130.5 | 124.5 | 144.3 | 122.5 | 106.7 | 100.8 | 85.0 |
| 85° | 71.2 | 69.2 | 73.1 | 83.0 | 90.9 | 77.1 | 87.0 | 79.1 | 65.2 | 47.4 | 47.4 |
| 87.5° | 27.7 | 29.6 | 27.7 | 37.6 | 41.5 | 35.6 | 39.5 | 27.7 | 19.8 | 9.9 | 7.9 |
| 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)