

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: P572942

Luminaire Tested: **ARCH-S-PA2-130-827-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-130-827-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11959 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

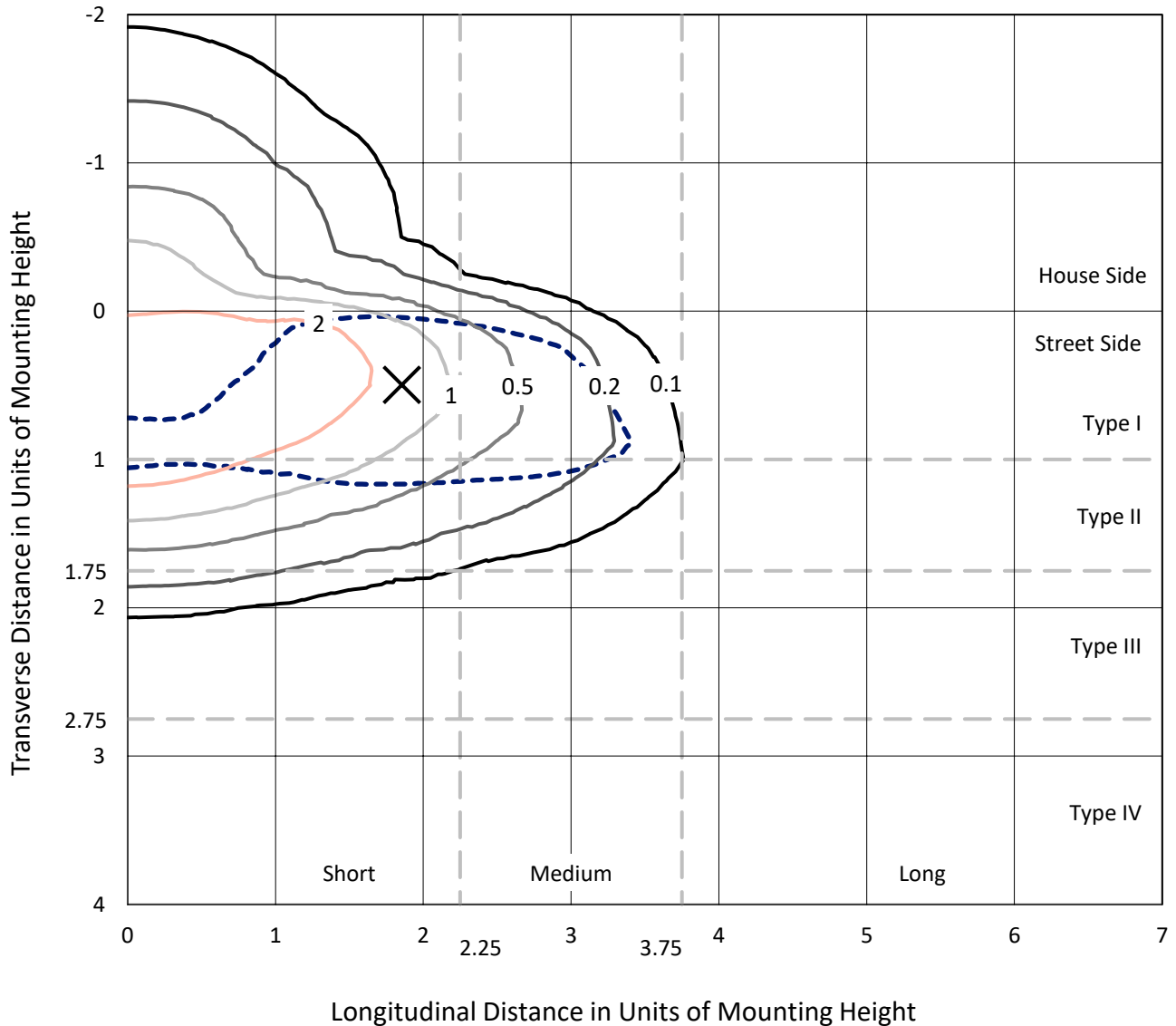
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

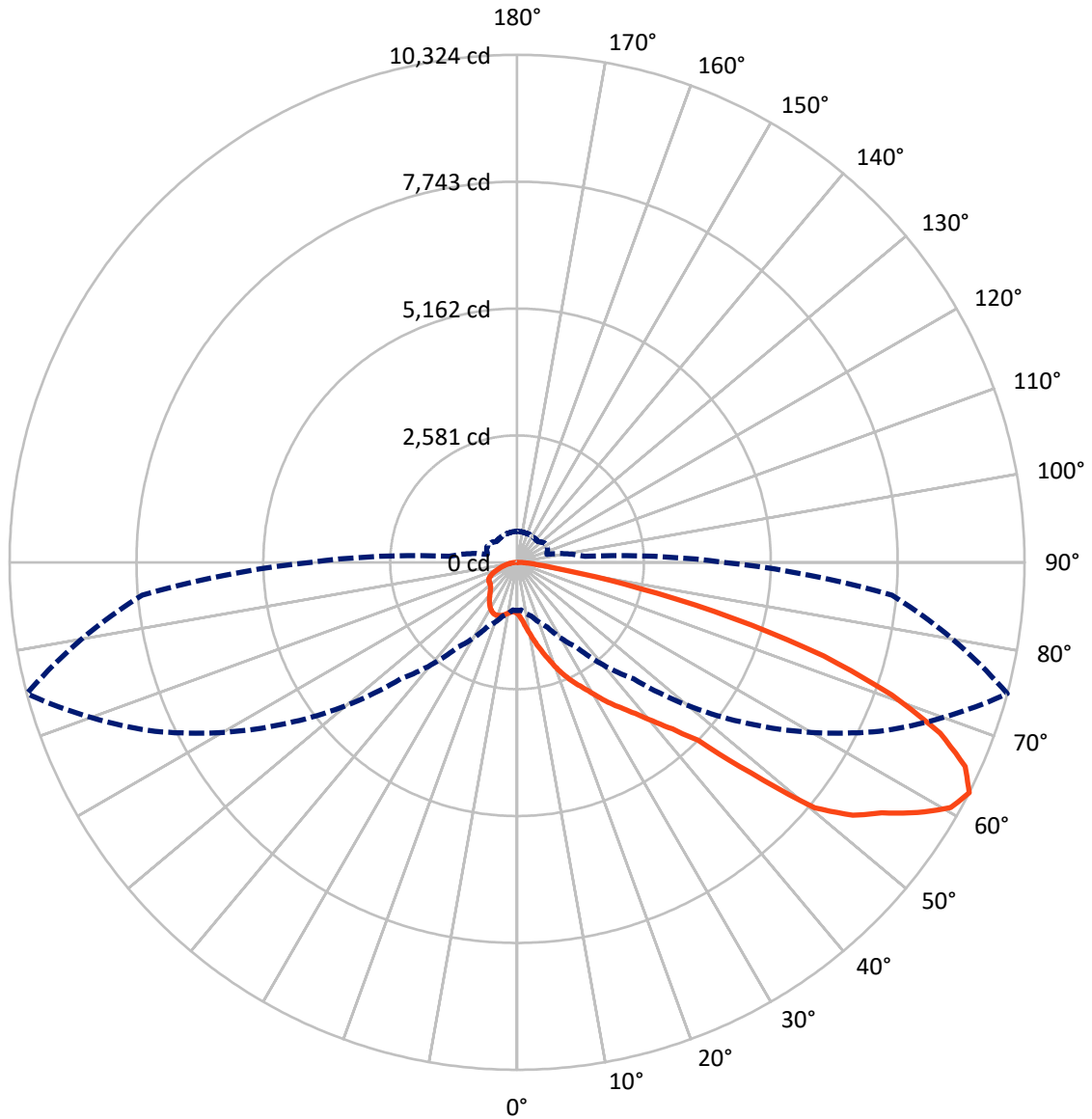
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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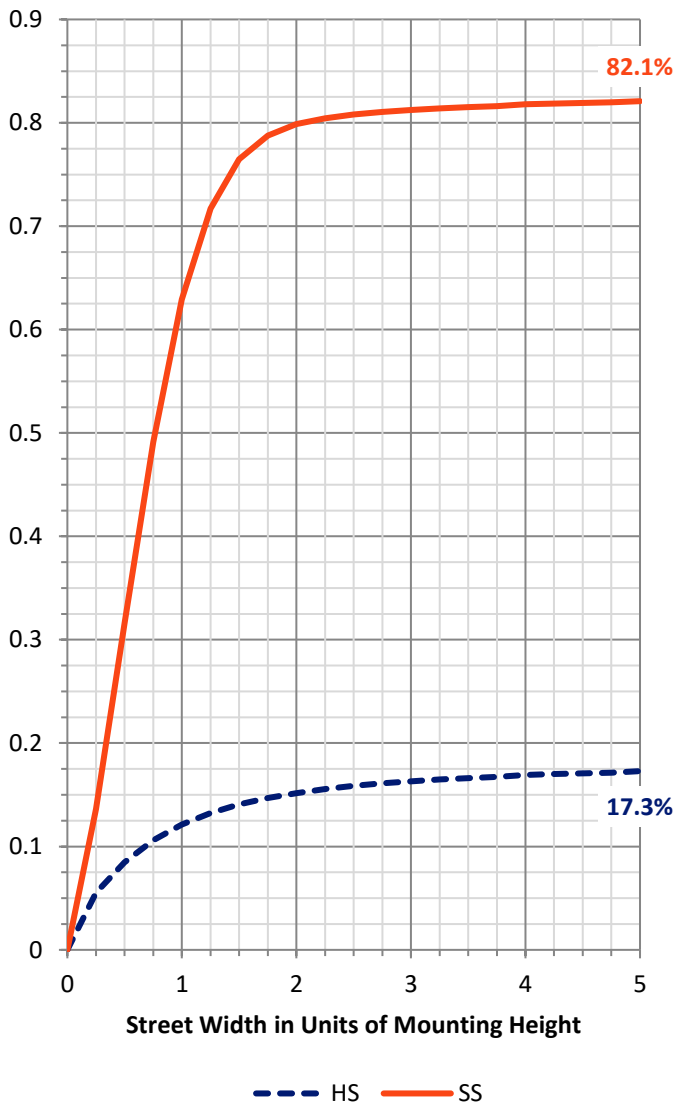
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2109.2 | 0.0 | 2109.2 |
| | % Fixture | 17.6 | 0.0 | 17.6 |
| Street Side | Lumens | 9849.8 | 0.0 | 9849.8 |
| | % Fixture | 82.4 | 0.0 | 82.4 |
| Total | Lumens | 11959.0 | 0.0 | 11959.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 125.2 | 1.0 |
| 10°-20° | 494.9 | 4.1 |
| 20°-30° | 979.0 | 8.2 |
| 30°-40° | 1631.9 | 13.6 |
| 40°-50° | 2408.1 | 20.1 |
| 50°-60° | 2894.7 | 24.2 |
| 60°-70° | 2249.8 | 18.8 |
| 70°-80° | 995.3 | 8.3 |
| 80°-90° | 180.2 | 1.5 |
| 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° | 11959.0 | 100.0 |
| 0°-180° | 11959.0 | 100.0 |

Coefficient of Utilization

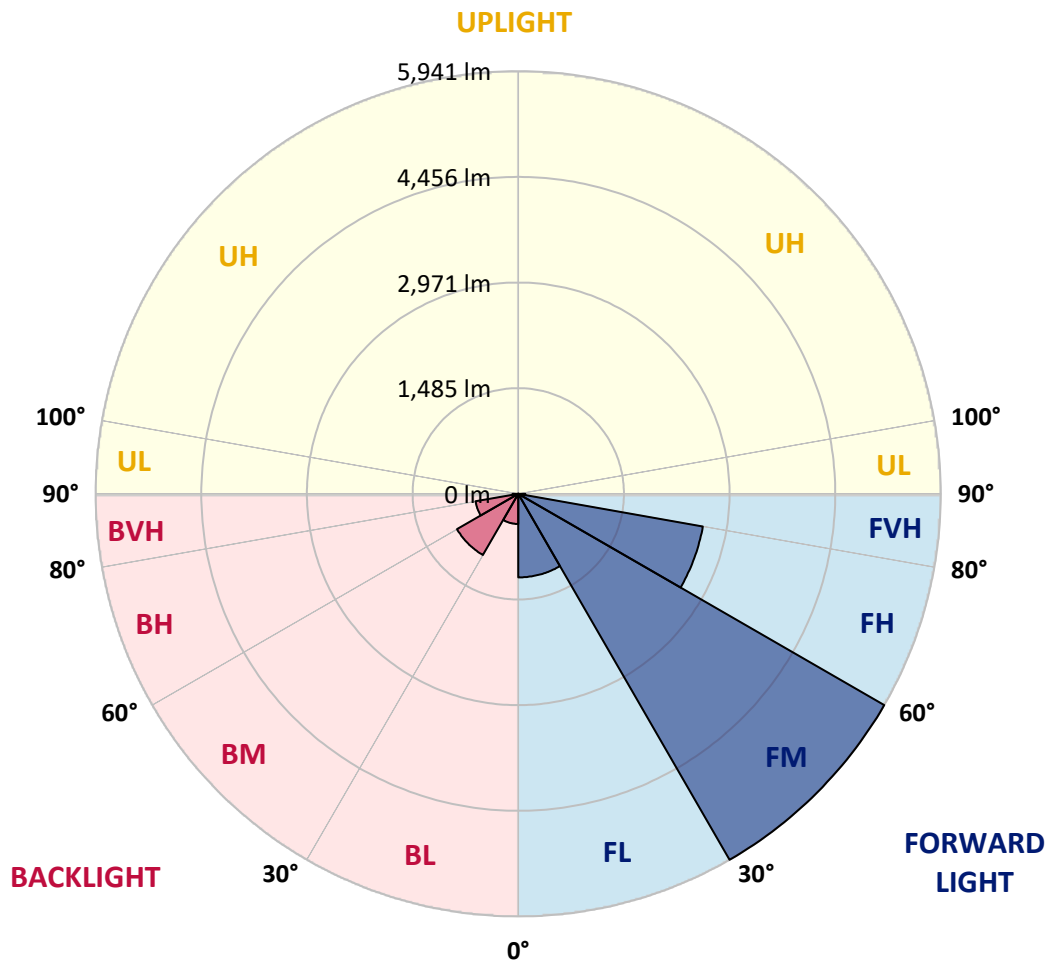


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1174.7 | 9.8 | | | |
| FM (30°-60°) | 5941.2 | 49.7 | | | |
| FH (60°-80°) | 2634.8 | 22.0 | | | G2/5000 |
| FVH (80°-90°) | 99.0 | 0.8 | | | G1/100 |
| BL (0°-30°) | 424.4 | 3.5 | B1/500 | | |
| BM (30°-60°) | 993.4 | 8.3 | B1/1000 | | |
| BH (60°-80°) | 610.2 | 5.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 81.1 | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| 0° | 1042.4 | 1042.4 | 1042.4 | 1042.4 | 1042.4 | 1042.4 | 1042.4 | 1042.4 | 1042.4 | 1042.4 | 1042.4 |
| 2.5° | 1332.9 | 1294.2 | 1294.2 | 1252.2 | 1255.4 | 1219.9 | 1181.2 | 1142.5 | 1100.5 | 1068.2 | 1052.1 |
| 5° | 1742.8 | 1713.7 | 1704.0 | 1655.6 | 1578.2 | 1491.0 | 1397.4 | 1300.6 | 1200.6 | 1123.1 | 1084.4 |
| 7.5° | 2126.8 | 2104.2 | 2091.3 | 2036.4 | 1929.9 | 1836.3 | 1687.9 | 1510.4 | 1339.3 | 1194.1 | 1136.0 |
| 10° | 2410.8 | 2394.7 | 2368.9 | 2343.0 | 2265.6 | 2184.9 | 2000.9 | 1749.2 | 1497.5 | 1281.2 | 1194.1 |
| 12.5° | 2617.4 | 2594.8 | 2594.8 | 2591.5 | 2539.9 | 2465.7 | 2294.6 | 2023.5 | 1681.4 | 1378.1 | 1258.7 |
| 15° | 2756.1 | 2752.9 | 2762.6 | 2782.0 | 2769.0 | 2720.6 | 2549.6 | 2275.3 | 1868.6 | 1487.8 | 1332.9 |
| 17.5° | 2859.4 | 2846.5 | 2865.9 | 2917.5 | 2956.2 | 2936.9 | 2794.9 | 2517.3 | 2075.2 | 1607.2 | 1413.6 |
| 20° | 2972.4 | 2946.6 | 2972.4 | 3036.9 | 3085.3 | 3114.4 | 3046.6 | 2749.7 | 2297.9 | 1736.3 | 1491.0 |
| 22.5° | 3188.6 | 3185.4 | 3172.5 | 3191.8 | 3224.1 | 3275.7 | 3237.0 | 2985.3 | 2514.1 | 1865.4 | 1581.4 |
| 25° | 3575.9 | 3540.4 | 3504.9 | 3462.9 | 3427.4 | 3443.6 | 3411.3 | 3204.7 | 2711.0 | 2007.4 | 1658.8 |
| 27.5° | 4008.3 | 3969.6 | 3905.1 | 3801.8 | 3705.0 | 3646.9 | 3579.1 | 3395.1 | 2901.4 | 2136.5 | 1733.1 |
| 30° | 4405.3 | 4392.4 | 4295.6 | 4182.6 | 4014.8 | 3908.3 | 3779.2 | 3614.6 | 3130.5 | 2278.5 | 1810.5 |
| 32.5° | 4776.4 | 4750.6 | 4653.8 | 4534.4 | 4337.5 | 4218.1 | 4040.6 | 3853.4 | 3391.9 | 2452.8 | 1891.2 |
| 35° | 5096.0 | 5070.1 | 4957.2 | 4805.5 | 4634.4 | 4531.2 | 4327.8 | 4066.4 | 3630.7 | 2604.5 | 1959.0 |
| 37.5° | 5338.0 | 5309.0 | 5202.5 | 5054.0 | 4902.3 | 4853.9 | 4679.6 | 4337.5 | 3901.8 | 2794.9 | 2042.9 |
| 40° | 5473.5 | 5438.0 | 5367.0 | 5263.8 | 5137.9 | 5115.3 | 5041.1 | 4673.2 | 4243.9 | 3027.2 | 2165.5 |
| 42.5° | 5489.7 | 5457.4 | 5418.7 | 5409.0 | 5399.3 | 5418.7 | 5454.2 | 5054.0 | 4634.4 | 3337.1 | 2346.3 |
| 45° | 5347.7 | 5328.3 | 5331.5 | 5441.3 | 5593.0 | 5770.5 | 5983.5 | 5615.6 | 5160.5 | 3927.7 | 2752.9 |
| 47.5° | 5044.3 | 5034.6 | 5105.6 | 5289.6 | 5628.5 | 6031.9 | 6635.4 | 6577.3 | 6406.2 | 4879.7 | 3275.7 |
| 50° | 4553.8 | 4537.6 | 4689.3 | 4979.8 | 5463.9 | 6119.0 | 7074.3 | 7710.1 | 7852.1 | 5618.8 | 3617.8 |
| 52.5° | 3850.2 | 3869.6 | 4105.2 | 4502.1 | 5086.3 | 6025.4 | 7255.0 | 8174.8 | 8549.2 | 6164.2 | 3879.2 |
| 55° | 3130.5 | 3101.5 | 3314.5 | 3805.0 | 4527.9 | 5683.3 | 7290.5 | 8442.7 | 9001.0 | 6667.7 | 4134.2 |
| 57.5° | 2281.7 | 2352.7 | 2578.6 | 3024.0 | 3808.2 | 5063.7 | 7084.0 | 8626.6 | 9607.8 | 7171.1 | 4369.8 |
| 60° | 1545.9 | 1545.9 | 1746.0 | 2191.4 | 2943.3 | 4311.7 | 6532.1 | 8558.9 | 10137.0 | 7564.9 | 4421.4 |
| 62.5° | 984.3 | 974.7 | 1136.0 | 1452.3 | 2107.4 | 3350.0 | 5705.9 | 8132.9 | 10324.2 | 7658.5 | 4205.2 |
| 65° | 622.9 | 635.8 | 693.9 | 887.5 | 1349.0 | 2378.5 | 4579.6 | 7284.1 | 10017.6 | 7442.2 | 3827.6 |
| 67.5° | 500.2 | 503.5 | 532.5 | 613.2 | 829.4 | 1526.5 | 3395.1 | 6112.6 | 9285.0 | 6896.8 | 3385.5 |
| 70° | 442.1 | 448.6 | 455.1 | 484.1 | 568.0 | 965.0 | 2230.1 | 4921.7 | 8084.5 | 5948.0 | 2911.1 |
| 72.5° | 403.4 | 409.9 | 416.3 | 422.8 | 468.0 | 629.3 | 1316.7 | 3730.8 | 6522.4 | 4569.9 | 2220.4 |
| 75° | 371.1 | 377.6 | 377.6 | 380.8 | 406.6 | 468.0 | 722.9 | 2572.2 | 4540.9 | 2843.3 | 1384.5 |
| 77.5° | 332.4 | 335.6 | 335.6 | 342.1 | 367.9 | 367.9 | 448.6 | 1591.1 | 2520.5 | 1287.7 | 700.3 |
| 80° | 280.8 | 287.2 | 287.2 | 296.9 | 322.7 | 284.0 | 300.1 | 813.3 | 1045.7 | 529.3 | 313.1 |
| 82.5° | 206.5 | 219.5 | 225.9 | 242.0 | 258.2 | 216.2 | 216.2 | 409.9 | 442.1 | 235.6 | 167.8 |
| 85° | 113.0 | 116.2 | 167.8 | 180.7 | 190.4 | 129.1 | 145.2 | 203.3 | 219.5 | 103.3 | 83.9 |
| 87.5° | 32.3 | 35.5 | 80.7 | 100.0 | 90.4 | 54.9 | 61.3 | 77.5 | 77.5 | 29.0 | 22.6 |
| 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-PA2-130-827-U-T2R

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1042.4 | 1042.4 | 1042.4 | 1042.4 | 1042.4 | 1042.4 | 1042.4 | 1042.4 | 1042.4 | 1042.4 |
| 2.5° | 1039.2 | 1013.4 | 990.8 | 974.7 | 958.5 | 948.8 | 945.6 | 939.2 | 939.2 | 942.4 |
| 5° | 1052.1 | 1006.9 | 971.4 | 952.1 | 939.2 | 932.7 | 929.5 | 929.5 | 932.7 | 932.7 |
| 7.5° | 1084.4 | 1016.6 | 984.3 | 968.2 | 955.3 | 948.8 | 948.8 | 945.6 | 948.8 | 948.8 |
| 10° | 1129.6 | 1045.7 | 1010.2 | 990.8 | 981.1 | 971.4 | 968.2 | 965.0 | 965.0 | 965.0 |
| 12.5° | 1178.0 | 1077.9 | 1039.2 | 1016.6 | 1000.5 | 987.6 | 981.1 | 974.7 | 971.4 | 971.4 |
| 15° | 1223.2 | 1110.2 | 1058.6 | 1032.7 | 1010.2 | 990.8 | 977.9 | 968.2 | 965.0 | 965.0 |
| 17.5° | 1271.6 | 1132.8 | 1071.5 | 1036.0 | 1006.9 | 981.1 | 965.0 | 952.1 | 945.6 | 945.6 |
| 20° | 1323.2 | 1148.9 | 1071.5 | 1026.3 | 987.6 | 961.7 | 942.4 | 929.5 | 916.6 | 916.6 |
| 22.5° | 1365.2 | 1155.4 | 1058.6 | 1003.7 | 965.0 | 932.7 | 913.3 | 897.2 | 887.5 | 887.5 |
| 25° | 1400.7 | 1148.9 | 1029.5 | 968.2 | 923.0 | 894.0 | 874.6 | 861.7 | 852.0 | 852.0 |
| 27.5° | 1423.3 | 1123.1 | 994.0 | 929.5 | 887.5 | 858.5 | 845.6 | 832.7 | 826.2 | 826.2 |
| 30° | 1436.2 | 1090.8 | 948.8 | 887.5 | 845.6 | 829.4 | 823.0 | 810.1 | 800.4 | 797.2 |
| 32.5° | 1442.6 | 1042.4 | 903.7 | 845.6 | 816.5 | 810.1 | 810.1 | 793.9 | 781.0 | 777.8 |
| 35° | 1436.2 | 990.8 | 858.5 | 810.1 | 800.4 | 803.6 | 797.2 | 777.8 | 761.6 | 755.2 |
| 37.5° | 1426.5 | 929.5 | 810.1 | 784.2 | 793.9 | 800.4 | 781.0 | 755.2 | 729.4 | 722.9 |
| 40° | 1420.0 | 874.6 | 771.3 | 758.4 | 787.5 | 790.7 | 755.2 | 706.8 | 687.4 | 681.0 |
| 42.5° | 1452.3 | 819.7 | 735.8 | 739.1 | 771.3 | 774.6 | 710.0 | 687.4 | 674.5 | 671.3 |
| 45° | 1562.0 | 771.3 | 706.8 | 726.1 | 752.0 | 739.1 | 687.4 | 684.2 | 674.5 | 671.3 |
| 47.5° | 1645.9 | 735.8 | 693.9 | 716.5 | 735.8 | 690.6 | 684.2 | 681.0 | 671.3 | 668.1 |
| 50° | 1675.0 | 713.2 | 690.6 | 710.0 | 713.2 | 668.1 | 677.7 | 677.7 | 668.1 | 664.8 |
| 52.5° | 1678.2 | 700.3 | 697.1 | 706.8 | 677.7 | 658.4 | 671.3 | 671.3 | 661.6 | 658.4 |
| 55° | 1691.1 | 693.9 | 700.3 | 706.8 | 639.0 | 645.5 | 658.4 | 661.6 | 651.9 | 648.7 |
| 57.5° | 1665.3 | 684.2 | 706.8 | 710.0 | 622.9 | 632.6 | 645.5 | 645.5 | 645.5 | 645.5 |
| 60° | 1565.3 | 664.8 | 703.6 | 703.6 | 610.0 | 616.4 | 629.3 | 635.8 | 639.0 | 639.0 |
| 62.5° | 1381.3 | 626.1 | 684.2 | 684.2 | 597.1 | 603.5 | 619.6 | 619.6 | 629.3 | 629.3 |
| 65° | 1148.9 | 571.2 | 645.5 | 642.2 | 584.1 | 590.6 | 610.0 | 603.5 | 619.6 | 622.9 |
| 67.5° | 958.5 | 503.5 | 587.4 | 593.8 | 571.2 | 587.4 | 600.3 | 577.7 | 610.0 | 610.0 |
| 70° | 764.9 | 422.8 | 509.9 | 539.0 | 548.6 | 590.6 | 580.9 | 545.4 | 587.4 | 577.7 |
| 72.5° | 593.8 | 358.2 | 419.6 | 471.2 | 522.8 | 587.4 | 539.0 | 500.2 | 526.1 | 509.9 |
| 75° | 432.5 | 296.9 | 345.3 | 390.5 | 487.3 | 577.7 | 497.0 | 438.9 | 438.9 | 432.5 |
| 77.5° | 303.4 | 242.0 | 277.6 | 309.8 | 451.8 | 551.9 | 445.4 | 377.6 | 361.5 | 358.2 |
| 80° | 206.5 | 190.4 | 219.5 | 238.8 | 400.2 | 500.2 | 384.1 | 313.1 | 284.0 | 277.6 |
| 82.5° | 135.5 | 135.5 | 148.5 | 161.4 | 309.8 | 416.3 | 300.1 | 232.4 | 300.1 | 287.2 |
| 85° | 77.5 | 80.7 | 80.7 | 93.6 | 171.0 | 293.7 | 213.0 | 232.4 | 138.8 | 129.1 |
| 87.5° | 25.8 | 25.8 | 25.8 | 25.8 | 35.5 | 119.4 | 90.4 | 83.9 | 32.3 | 29.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)