

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: P573494

Luminaire Tested: **ARCH-S-PA2-80-750-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-18)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-80-750-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8805 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

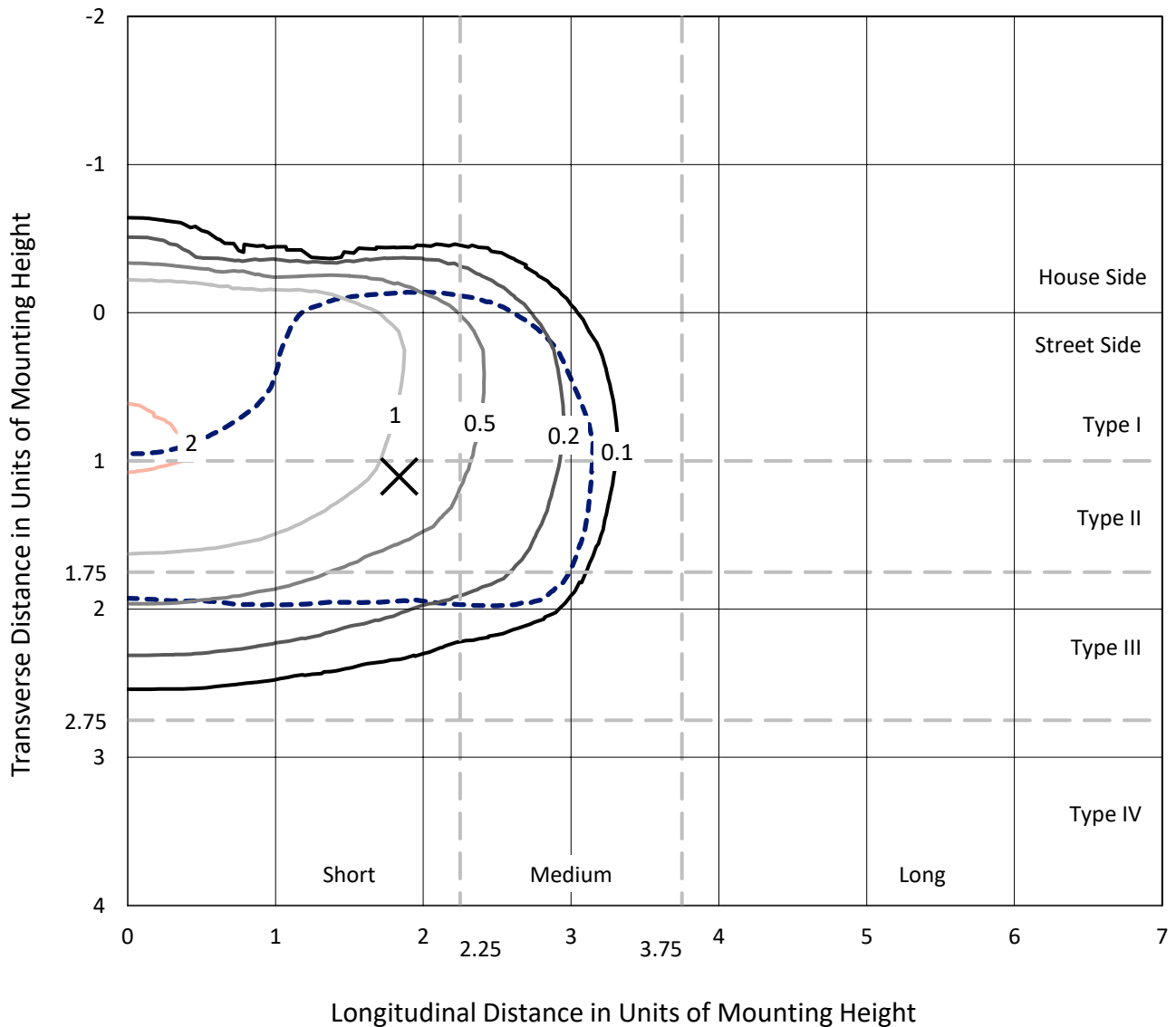
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

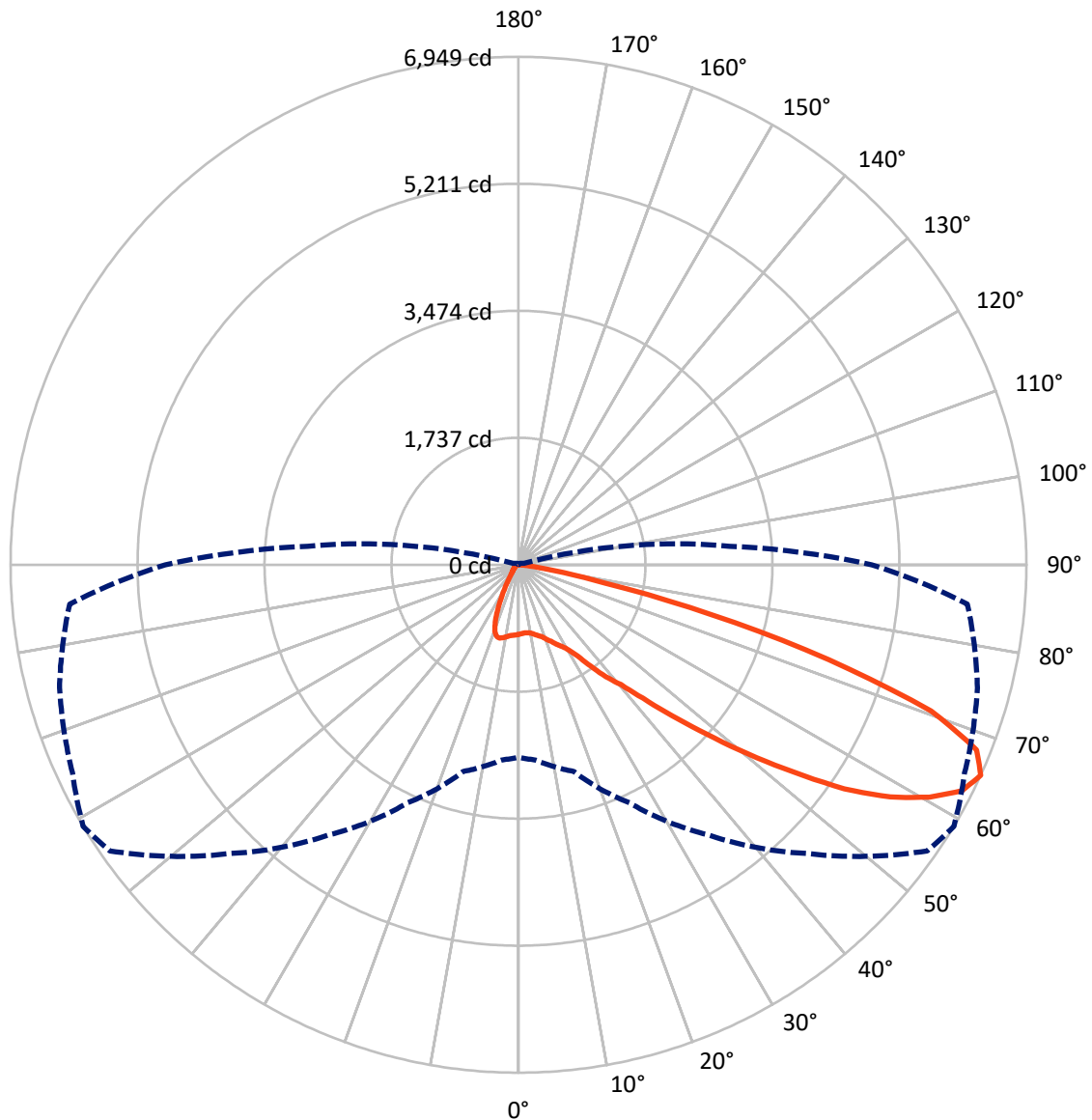
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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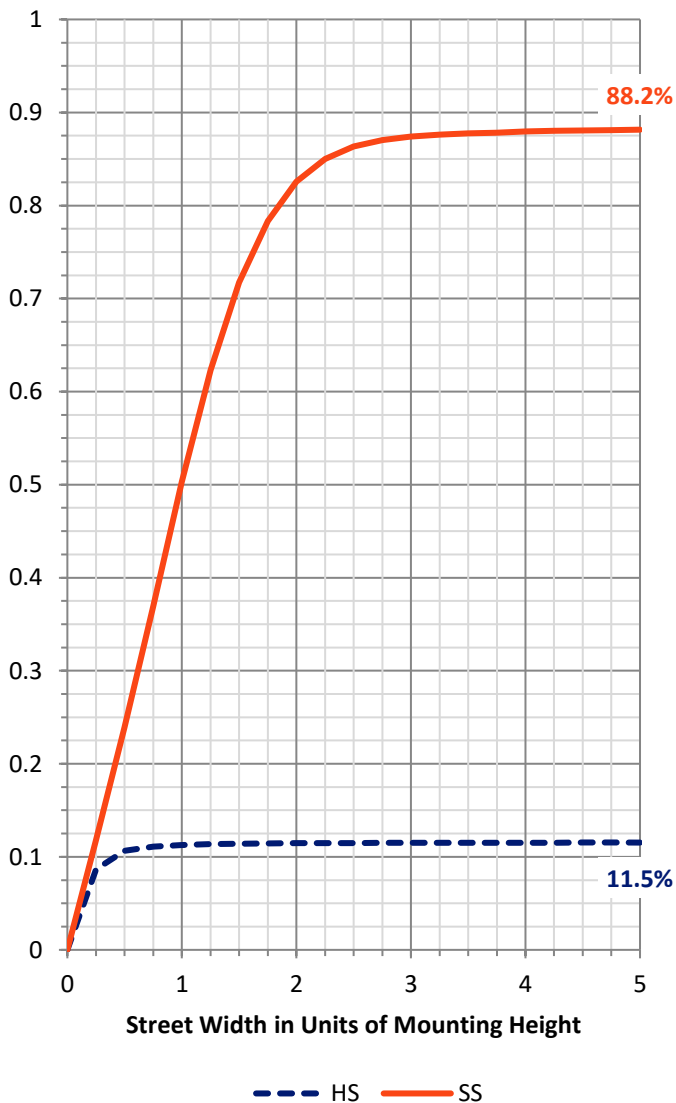
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1027.2 | 0.0 | 1027.2 |
| | % Fixture | 11.7 | 0.0 | 11.7 |
| Street Side | Lumens | 7777.8 | 0.0 | 7777.8 |
| | % Fixture | 88.3 | 0.0 | 88.3 |
| Total | Lumens | 8805.0 | 0.0 | 8805.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 89.9 | 1.0 |
| 10°-20° | 255.4 | 2.9 |
| 20°-30° | 433.8 | 4.9 |
| 30°-40° | 768.5 | 8.7 |
| 40°-50° | 1449.7 | 16.5 |
| 50°-60° | 2452.8 | 27.9 |
| 60°-70° | 2550.1 | 29.0 |
| 70°-80° | 764.7 | 8.7 |
| 80°-90° | 40.1 | 0.5 |
| 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° | 8805.0 | 100.0 |
| 0°-180° | 8805.0 | 100.0 |

Coefficient of Utilization

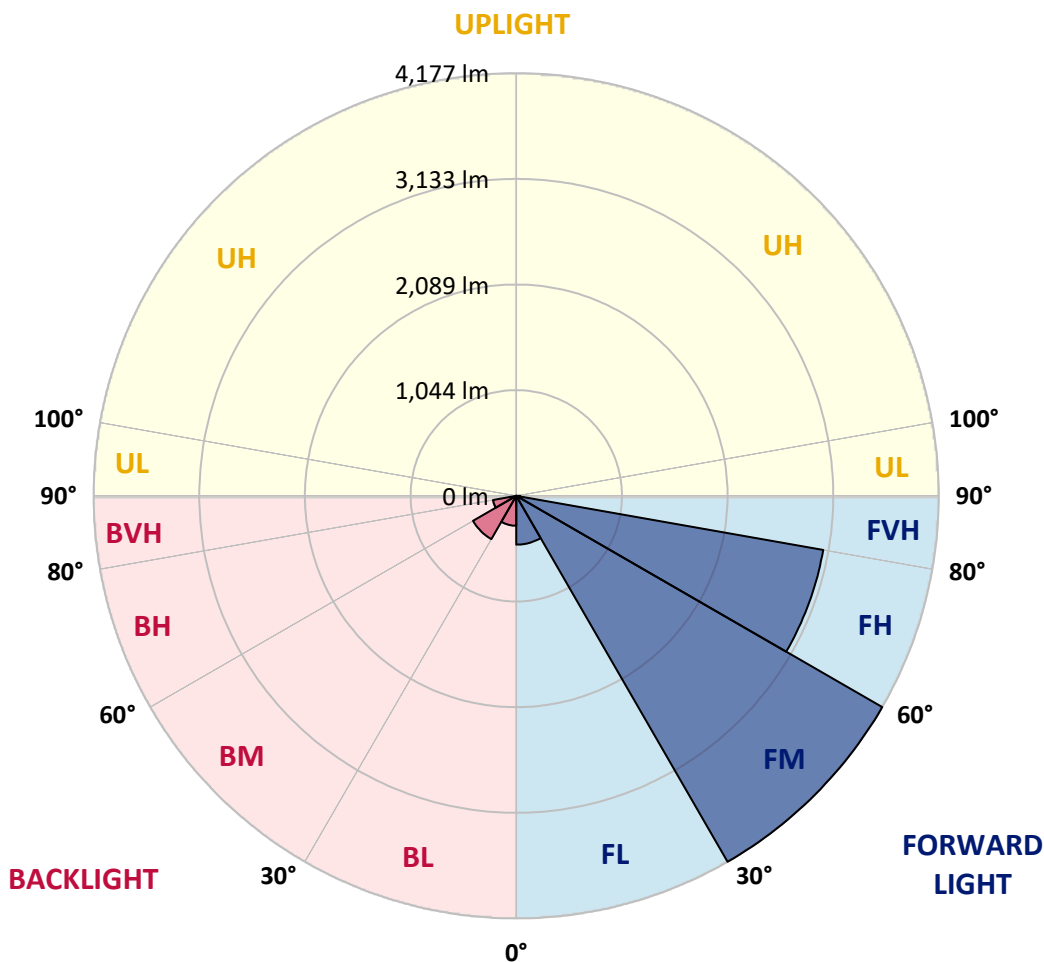


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 482.9 | 5.5 | | | |
| FM (30°-60°) | 4177.1 | 47.4 | | | |
| FH (60°-80°) | 3081.1 | 35.0 | | | G2/5000 |
| FVH (80°-90°) | 36.7 | 0.4 | | | G1/100 |
| BL (0°-30°) | 296.3 | 3.4 | B1/500 | | |
| BM (30°-60°) | 493.8 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 233.7 | 2.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 951.5 | 951.5 | 951.5 | 951.5 | 951.5 | 951.5 | 951.5 | 951.5 | 951.5 | 951.5 | 951.5 |
| 2.5° | 925.8 | 922.6 | 922.6 | 929.0 | 932.2 | 935.4 | 941.9 | 941.9 | 941.9 | 948.3 | 951.5 |
| 5° | 881.0 | 881.0 | 884.2 | 890.6 | 903.4 | 913.0 | 932.2 | 935.4 | 938.7 | 954.7 | 961.1 |
| 7.5° | 852.2 | 852.2 | 855.4 | 868.2 | 884.2 | 906.6 | 932.2 | 938.7 | 948.3 | 970.7 | 986.7 |
| 10° | 849.0 | 845.7 | 852.2 | 865.0 | 884.2 | 913.0 | 941.9 | 951.5 | 970.7 | 999.5 | 1021.9 |
| 12.5° | 858.6 | 855.4 | 861.8 | 874.6 | 893.8 | 922.6 | 961.1 | 977.1 | 999.5 | 1038.0 | 1070.0 |
| 15° | 865.0 | 861.8 | 868.2 | 884.2 | 906.6 | 941.9 | 986.7 | 1005.9 | 1034.8 | 1089.2 | 1121.3 |
| 17.5° | 884.2 | 881.0 | 884.2 | 897.0 | 919.4 | 957.9 | 1015.5 | 1034.8 | 1082.8 | 1143.7 | 1178.9 |
| 20° | 970.7 | 967.5 | 948.3 | 941.9 | 945.1 | 980.3 | 1054.0 | 1086.0 | 1143.7 | 1220.6 | 1246.2 |
| 22.5° | 1150.1 | 1137.3 | 1102.0 | 1044.4 | 1005.9 | 1018.7 | 1102.0 | 1137.3 | 1214.2 | 1300.7 | 1319.9 |
| 25° | 1390.4 | 1380.7 | 1329.5 | 1230.2 | 1121.3 | 1089.2 | 1156.5 | 1204.6 | 1297.5 | 1393.6 | 1387.2 |
| 27.5° | 1662.7 | 1643.4 | 1595.4 | 1457.6 | 1310.3 | 1204.6 | 1223.8 | 1265.4 | 1367.9 | 1470.5 | 1438.4 |
| 30° | 1899.7 | 1893.3 | 1838.9 | 1723.5 | 1550.5 | 1393.6 | 1326.3 | 1348.7 | 1441.6 | 1550.5 | 1512.1 |
| 32.5° | 2117.6 | 2098.4 | 2053.5 | 1944.6 | 1784.4 | 1624.2 | 1489.7 | 1489.7 | 1566.6 | 1694.7 | 1637.0 |
| 35° | 2357.8 | 2345.0 | 2290.6 | 2181.6 | 2027.9 | 1838.9 | 1717.1 | 1704.3 | 1768.4 | 1912.5 | 1787.6 |
| 37.5° | 2604.5 | 2572.5 | 2546.9 | 2434.7 | 2281.0 | 2117.6 | 1970.2 | 1941.4 | 1973.4 | 2079.1 | 1925.4 |
| 40° | 2912.1 | 2912.1 | 2854.4 | 2751.9 | 2607.7 | 2434.7 | 2229.7 | 2156.0 | 2146.4 | 2284.2 | 2165.6 |
| 42.5° | 3270.9 | 3261.3 | 3213.2 | 3117.1 | 2979.3 | 2819.2 | 2559.7 | 2492.4 | 2486.0 | 2652.6 | 2511.6 |
| 45° | 3684.1 | 3677.7 | 3620.1 | 3540.0 | 3443.9 | 3267.7 | 3011.4 | 2944.1 | 2905.7 | 3097.9 | 2931.3 |
| 47.5° | 4062.2 | 4039.7 | 4020.5 | 4030.1 | 3975.7 | 3777.0 | 3536.8 | 3456.7 | 3453.5 | 3604.0 | 3389.4 |
| 50° | 4321.6 | 4308.8 | 4376.1 | 4440.2 | 4542.7 | 4417.8 | 4132.6 | 4062.2 | 4007.7 | 4206.3 | 3866.7 |
| 52.5° | 4491.4 | 4485.0 | 4619.6 | 4802.2 | 5013.6 | 5004.0 | 4750.9 | 4709.3 | 4664.4 | 4718.9 | 4292.8 |
| 55° | 4558.7 | 4558.7 | 4718.9 | 5055.3 | 5426.9 | 5587.1 | 5468.5 | 5410.9 | 5253.9 | 5141.8 | 4760.5 |
| 57.5° | 4478.6 | 4469.0 | 4677.2 | 5116.1 | 5683.2 | 6013.1 | 6064.4 | 5997.1 | 5750.5 | 5625.5 | 5279.5 |
| 60° | 4139.0 | 4145.5 | 4392.1 | 4946.4 | 5664.0 | 6186.1 | 6516.1 | 6455.2 | 6208.6 | 6022.8 | 5715.2 |
| 62.5° | 3504.7 | 3559.2 | 3818.7 | 4421.0 | 5253.9 | 6048.4 | 6775.6 | 6807.6 | 6541.7 | 6311.1 | 6102.8 |
| 65° | 2633.4 | 2681.4 | 2928.1 | 3594.4 | 4507.5 | 5587.1 | 6823.7 | 6948.6 | 6734.0 | 6500.1 | 6163.7 |
| 67.5° | 1601.8 | 1617.8 | 1919.0 | 2421.9 | 3318.9 | 4654.8 | 6487.3 | 6759.6 | 6605.8 | 6221.4 | 5561.4 |
| 70° | 746.4 | 788.1 | 935.4 | 1323.1 | 2101.6 | 3427.8 | 5606.3 | 5990.7 | 5817.7 | 5340.4 | 4228.7 |
| 72.5° | 291.5 | 304.3 | 397.2 | 611.9 | 1114.9 | 2156.0 | 4183.9 | 4440.2 | 4321.6 | 3793.1 | 2521.2 |
| 75° | 144.2 | 153.8 | 192.2 | 291.5 | 509.4 | 890.6 | 2556.5 | 2723.1 | 2527.6 | 1906.1 | 1066.8 |
| 77.5° | 105.7 | 105.7 | 128.1 | 179.4 | 278.7 | 330.0 | 1076.4 | 1207.8 | 1140.5 | 736.8 | 291.5 |
| 80° | 70.5 | 76.9 | 89.7 | 121.7 | 176.2 | 160.2 | 406.9 | 483.7 | 403.7 | 227.5 | 102.5 |
| 82.5° | 41.6 | 44.9 | 67.3 | 86.5 | 118.5 | 92.9 | 137.8 | 153.8 | 166.6 | 112.1 | 48.1 |
| 85° | 22.4 | 22.4 | 44.9 | 64.1 | 64.1 | 41.6 | 48.1 | 54.5 | 64.1 | 67.3 | 25.6 |
| 87.5° | 6.4 | 6.4 | 28.8 | 38.4 | 25.6 | 22.4 | 25.6 | 25.6 | 28.8 | 35.2 | 12.8 |
| 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-PA2-80-750-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 0° | 951.5 | 951.5 | 951.5 | 951.5 | 951.5 | 951.5 | 951.5 | 951.5 | 951.5 | 951.5 | 951.5 |
| 2.5° | 954.7 | 954.7 | 957.9 | 957.9 | 961.1 | 961.1 | 961.1 | 961.1 | 964.3 | 967.5 | 967.5 |
| 5° | 964.3 | 967.5 | 967.5 | 967.5 | 967.5 | 961.1 | 957.9 | 954.7 | 954.7 | 957.9 | 957.9 |
| 7.5° | 989.9 | 993.1 | 989.9 | 983.5 | 973.9 | 961.1 | 948.3 | 948.3 | 945.1 | 948.3 | 945.1 |
| 10° | 1028.4 | 1028.4 | 1025.2 | 1009.1 | 993.1 | 967.5 | 941.9 | 922.6 | 909.8 | 906.6 | 900.2 |
| 12.5° | 1076.4 | 1076.4 | 1066.8 | 1038.0 | 1009.1 | 961.1 | 893.8 | 829.7 | 778.5 | 756.0 | 749.6 |
| 15° | 1124.5 | 1124.5 | 1111.6 | 1070.0 | 1012.3 | 897.0 | 756.0 | 621.5 | 544.6 | 512.6 | 493.4 |
| 17.5° | 1182.1 | 1175.7 | 1153.3 | 1095.6 | 977.1 | 768.9 | 541.4 | 403.7 | 342.8 | 314.0 | 314.0 |
| 20° | 1243.0 | 1236.6 | 1194.9 | 1098.8 | 887.4 | 551.0 | 352.4 | 278.7 | 262.7 | 256.3 | 256.3 |
| 22.5° | 1310.3 | 1294.3 | 1230.2 | 1073.2 | 698.4 | 374.8 | 265.9 | 246.7 | 240.3 | 237.1 | 237.1 |
| 25° | 1364.7 | 1339.1 | 1255.8 | 1002.7 | 499.8 | 262.7 | 233.9 | 227.5 | 214.6 | 211.4 | 205.0 |
| 27.5° | 1406.4 | 1367.9 | 1265.4 | 852.2 | 330.0 | 217.8 | 208.2 | 195.4 | 182.6 | 169.8 | 169.8 |
| 30° | 1460.8 | 1412.8 | 1271.8 | 663.1 | 224.3 | 189.0 | 179.4 | 163.4 | 147.4 | 134.6 | 134.6 |
| 32.5° | 1569.8 | 1499.3 | 1275.0 | 464.5 | 185.8 | 166.6 | 147.4 | 128.1 | 112.1 | 105.7 | 102.5 |
| 35° | 1688.3 | 1592.2 | 1239.8 | 301.1 | 163.4 | 141.0 | 118.5 | 102.5 | 86.5 | 83.3 | 83.3 |
| 37.5° | 1819.6 | 1729.9 | 1162.9 | 205.0 | 144.2 | 118.5 | 96.1 | 80.1 | 70.5 | 67.3 | 67.3 |
| 40° | 2040.7 | 1935.0 | 1034.8 | 163.4 | 124.9 | 99.3 | 80.1 | 67.3 | 60.9 | 57.7 | 57.7 |
| 42.5° | 2357.8 | 2175.2 | 874.6 | 141.0 | 108.9 | 83.3 | 64.1 | 54.5 | 51.3 | 48.1 | 48.1 |
| 45° | 2723.1 | 2444.3 | 688.8 | 128.1 | 96.1 | 70.5 | 54.5 | 48.1 | 44.9 | 41.6 | 41.6 |
| 47.5° | 3142.7 | 2723.1 | 544.6 | 112.1 | 83.3 | 60.9 | 48.1 | 41.6 | 38.4 | 35.2 | 35.2 |
| 50° | 3540.0 | 2940.9 | 410.1 | 99.3 | 73.7 | 51.3 | 41.6 | 38.4 | 35.2 | 32.0 | 32.0 |
| 52.5° | 3866.7 | 3088.3 | 310.7 | 86.5 | 64.1 | 44.9 | 38.4 | 35.2 | 28.8 | 28.8 | 28.8 |
| 55° | 4260.8 | 3203.6 | 237.1 | 76.9 | 57.7 | 41.6 | 35.2 | 28.8 | 25.6 | 22.4 | 22.4 |
| 57.5° | 4603.6 | 3245.2 | 173.0 | 67.3 | 51.3 | 38.4 | 32.0 | 25.6 | 19.2 | 16.0 | 16.0 |
| 60° | 4834.2 | 3210.0 | 124.9 | 57.7 | 44.9 | 32.0 | 25.6 | 19.2 | 12.8 | 9.6 | 9.6 |
| 62.5° | 4997.6 | 3133.1 | 96.1 | 51.3 | 38.4 | 28.8 | 22.4 | 16.0 | 9.6 | 6.4 | 6.4 |
| 65° | 4834.2 | 2896.0 | 76.9 | 44.9 | 32.0 | 25.6 | 16.0 | 12.8 | 6.4 | 3.2 | 3.2 |
| 67.5° | 4180.7 | 2428.3 | 60.9 | 38.4 | 28.8 | 22.4 | 16.0 | 9.6 | 3.2 | 0.0 | 0.0 |
| 70° | 3005.0 | 1733.1 | 51.3 | 35.2 | 25.6 | 19.2 | 12.8 | 6.4 | 3.2 | 0.0 | 0.0 |
| 72.5° | 1675.5 | 893.8 | 48.1 | 32.0 | 25.6 | 19.2 | 12.8 | 6.4 | 3.2 | 0.0 | 0.0 |
| 75° | 679.2 | 307.5 | 44.9 | 32.0 | 25.6 | 16.0 | 12.8 | 6.4 | 3.2 | 0.0 | 0.0 |
| 77.5° | 198.6 | 105.7 | 38.4 | 28.8 | 25.6 | 19.2 | 12.8 | 6.4 | 3.2 | 0.0 | 0.0 |
| 80° | 70.5 | 48.1 | 28.8 | 25.6 | 19.2 | 16.0 | 12.8 | 9.6 | 3.2 | 0.0 | 0.0 |
| 82.5° | 32.0 | 19.2 | 12.8 | 9.6 | 9.6 | 9.6 | 9.6 | 6.4 | 3.2 | 0.0 | 0.0 |
| 85° | 12.8 | 9.6 | 6.4 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 0.0 | 0.0 |
| 87.5° | 9.6 | 6.4 | 3.2 | 3.2 | 3.2 | 3.2 | 0.0 | 0.0 | 0.0 | 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)