

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: AMETRIX

Report Number: P508424

Luminaire Tested: **ASYX-X-S1-X-U-W-L30-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P508424  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-840-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: AMETRIX  
Catalog Number: ASYX-X-S1-X-U-W-L30-1-UNV-X-X-X-STD  
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.  
(1) AF LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5010.9 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Indirect

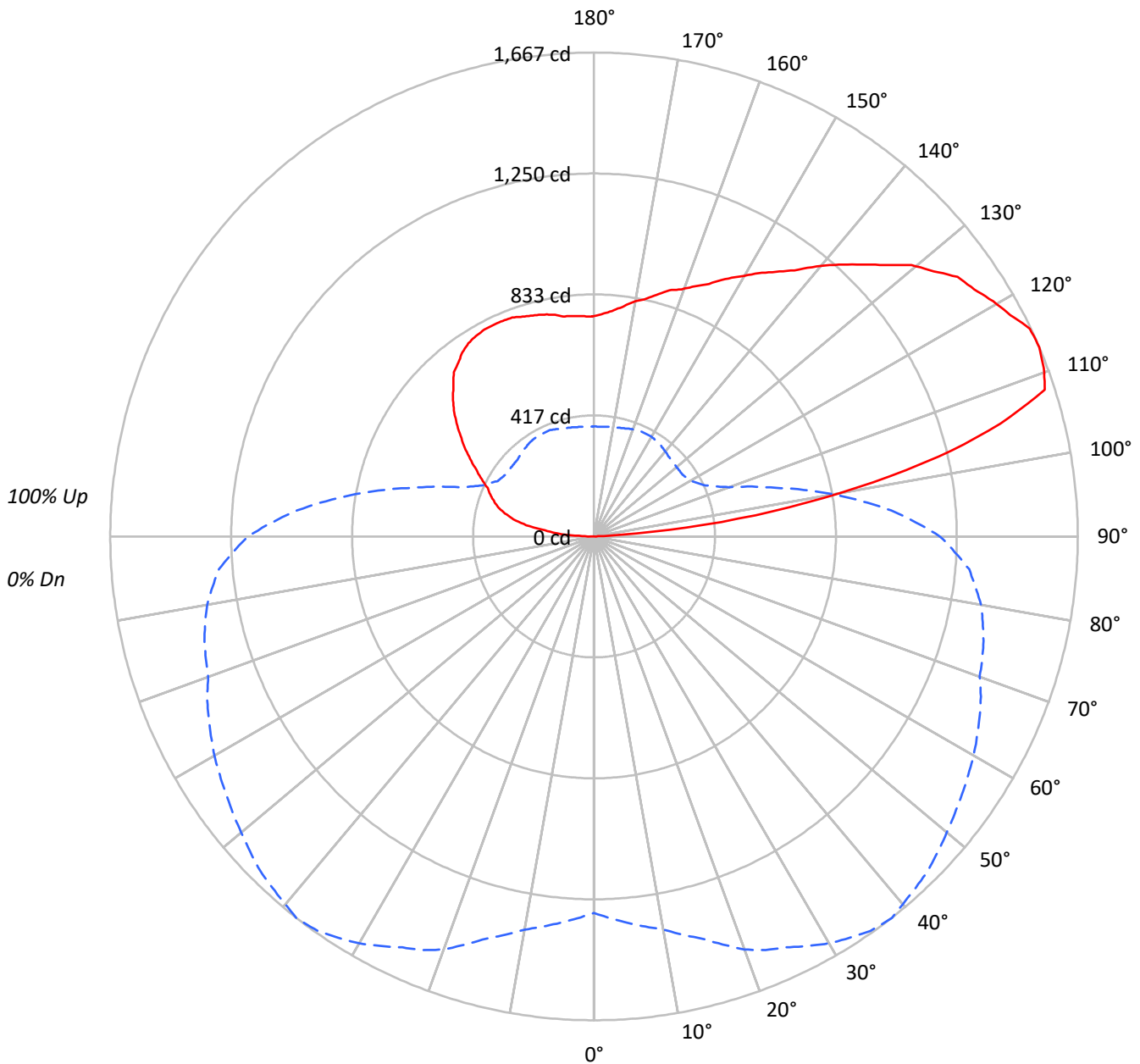
Input Watts (W): 56  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P508424

CATALOG NUMBER: ASYX-X-S1-X-U-W-L30-1-UNV-X-X-X-STD

### Luminous Intensity Polar Plot



— Vertical Plane Through 38° Lateral      - - - Horizontal Cone Through 112.5° Vertical



TEST NUMBER: P508424

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|----|
| RF  | 20 |    |    |    |    |    |    |    |    | 20 |    |    |    |    |    |    |    |    | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  | 20 |
| RC  | 80 |    |    |    |    |    |    |    |    | 50 |    |    |    |    |    |    |    |    | 30 |    |   |  |  |  |  |  |  | 10 |  |  |  |  |  |  |  |  | 0  |  |  |  |  |  |  |  |  |    |
| RW  | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| RCR |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 0   | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 | 0  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 1   | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9  | 9  | 8  | 0  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 2   | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8  | 7  | 7  | 0  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 3   | 72 | 63 | 57 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7  | 6  | 6  | 0  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 4   | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6  | 6  | 5  | 0  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 5   | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5  | 5  | 4  | 0  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 6   | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5  | 4  | 4  | 0  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 7   | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4  | 4  | 3  | 0  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 8   | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9  | 4  | 3  | 3  | 0  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 9   | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9  | 8  | 4  | 3  | 3  | 0  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 10  | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8  | 7  | 3  | 3  | 2  | 0  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |

**AVERAGE LUMINANCE (cd/sqm):**

|      | 0°     | 90°    | 180°  |
|------|--------|--------|-------|
| 95°  | 46536  | 51772  | 65851 |
| 100° | 126900 | 98262  | 59929 |
| 105° | 127111 | 104936 | 54980 |
| 110° | 141597 | 129071 | 46301 |
| 115° | 149354 | 129436 | 38561 |
| 120° | 140008 | 113994 | 35805 |
| 125° | 122311 | 97502  | 35611 |
| 130° | 105216 | 80935  | 36894 |
| 135° | 89265  | 69463  | 37545 |
| 140° | 74905  | 59122  | 38748 |
| 145° | 63326  | 52020  | 38853 |
| 150° | 53888  | 46117  | 38958 |
| 155° | 47188  | 41279  | 37901 |
| 160° | 42502  | 37613  | 36880 |
| 165° | 38967  | 35406  | 35325 |
| 170° | 36200  | 33717  | 33870 |
| 175° | 33867  | 32869  | 32718 |



TEST NUMBER: P508424

CATALOG NUMBER: ASYX-X-S1-X-U-W-L30-1-UNV-X-X-X-STD

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.0    | 0.0       |
| 10°-20°   | 0.0    | 0.0       |
| 20°-30°   | 0.0    | 0.0       |
| 30°-40°   | 0.0    | 0.0       |
| 40°-50°   | 0.0    | 0.0       |
| 50°-60°   | 0.0    | 0.0       |
| 60°-70°   | 0.0    | 0.0       |
| 70°-80°   | 0.0    | 0.0       |
| 80°-90°   | 0.0    | 0.0       |
| 90°-100°  | 205.1  | 4.1       |
| 100°-110° | 742.4  | 14.8      |
| 110°-120° | 1000.7 | 20.0      |
| 120°-130° | 952.5  | 19.0      |
| 130°-140° | 793.6  | 15.8      |
| 140°-150° | 601.2  | 12.0      |
| 150°-160° | 409.1  | 8.2       |
| 160°-170° | 232.5  | 4.6       |
| 170°-180° | 73.9   | 1.5       |
| 0°-30°    | 0.0    | 0.0       |
| 0°-40°    | 0.0    | 0.0       |
| 0°-60°    | 0.0    | 0.0       |
| 0°-90°    | 0.0    | 0.0       |
| 90°-120°  | 1948.2 | 38.9      |
| 90°-150°  | 4295.4 | 85.7      |
| 90°-180°  | 5011.0 | 100.0     |
| 0°-180°   | 5010.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 90°  | 0    | 0    | 0    | 0    | 0    |      |
| 95°  | 94   | 307  | 105  | 105  | 133  | 167  |
| 105° | 764  | 1560 | 631  | 279  | 330  | 829  |
| 115° | 1466 | 1596 | 1270 | 403  | 378  | 1414 |
| 125° | 1629 | 1459 | 1299 | 542  | 474  | 1454 |
| 135° | 1466 | 1256 | 1141 | 688  | 617  | 1136 |
| 145° | 1205 | 1072 | 990  | 782  | 739  | 762  |
| 155° | 993  | 942  | 869  | 810  | 798  | 464  |
| 165° | 874  | 848  | 794  | 789  | 792  | 250  |
| 175° | 784  | 773  | 760  | 759  | 757  | 76   |
| 180° | 757  | 757  | 757  | 757  | 757  |      |



TEST NUMBER: P508424

CATALOG NUMBER: ASYX-X-S1-X-U-W-L30-1-UNV-X-X-X-STD

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 38°    | 40°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 14.2   | 14.2   | 14.2   | 16.0   | 17.8   | 19.5   | 19.5   | 24.9   | 32.0   | 33.8   | 39.1   |
| 95°    | 94.2   | 108.4  | 161.7  | 186.6  | 188.4  | 193.7  | 193.7  | 245.2  | 305.6  | 319.8  | 334.1  |
| 97.5°  | 252.3  | 270.1  | 327.0  | 371.4  | 435.3  | 453.1  | 474.4  | 517.1  | 582.8  | 621.9  | 641.5  |
| 100°   | 511.8  | 515.3  | 545.5  | 586.4  | 655.7  | 694.8  | 742.8  | 860.0  | 918.7  | 918.7  | 897.3  |
| 102.5° | 648.6  | 652.1  | 678.8  | 717.9  | 799.6  | 858.3  | 913.3  | 1055.5 | 1174.5 | 1219.0 | 1236.7 |
| 105°   | 764.1  | 776.5  | 804.9  | 860.0  | 959.5  | 1025.3 | 1076.8 | 1238.5 | 1377.1 | 1453.5 | 1512.2 |
| 107.5° | 911.6  | 931.1  | 979.1  | 1043.1 | 1162.1 | 1238.5 | 1304.3 | 1435.8 | 1556.6 | 1633.0 | 1631.2 |
| 110°   | 1124.8 | 1135.5 | 1185.2 | 1268.7 | 1371.8 | 1432.2 | 1473.1 | 1565.5 | 1647.2 | 1654.3 | 1657.9 |
| 112.5° | 1297.2 | 1336.2 | 1375.3 | 1434.0 | 1513.9 | 1542.4 | 1561.9 | 1618.8 | 1659.6 | 1666.8 | 1654.3 |
| 115°   | 1466.0 | 1480.2 | 1499.7 | 1538.8 | 1576.1 | 1604.6 | 1608.1 | 1638.3 | 1647.2 | 1663.2 | 1634.8 |
| 117.5° | 1570.8 | 1577.9 | 1579.7 | 1593.9 | 1613.4 | 1629.4 | 1625.9 | 1634.8 | 1645.4 | 1624.1 | 1609.9 |
| 120°   | 1625.9 | 1633.0 | 1620.6 | 1625.9 | 1631.2 | 1634.8 | 1627.7 | 1631.2 | 1611.7 | 1595.7 | 1579.7 |
| 122.5° | 1647.2 | 1645.4 | 1633.0 | 1633.0 | 1625.9 | 1624.1 | 1609.9 | 1597.5 | 1583.2 | 1561.9 | 1542.4 |
| 125°   | 1629.4 | 1636.5 | 1620.6 | 1608.1 | 1592.1 | 1618.8 | 1583.2 | 1570.8 | 1545.9 | 1538.8 | 1501.5 |
| 127.5° | 1606.3 | 1620.6 | 1593.9 | 1581.5 | 1565.5 | 1560.1 | 1538.8 | 1521.0 | 1503.3 | 1483.7 | 1458.9 |
| 130°   | 1570.8 | 1576.1 | 1551.3 | 1538.8 | 1522.8 | 1506.8 | 1503.3 | 1464.2 | 1451.7 | 1439.3 | 1405.5 |
| 132.5° | 1535.3 | 1526.4 | 1501.5 | 1485.5 | 1466.0 | 1457.1 | 1448.2 | 1414.4 | 1396.7 | 1370.0 | 1352.2 |
| 135°   | 1466.0 | 1467.7 | 1444.6 | 1426.9 | 1400.2 | 1400.2 | 1384.2 | 1359.3 | 1336.2 | 1313.1 | 1290.0 |
| 137.5° | 1400.2 | 1412.7 | 1378.9 | 1362.9 | 1348.7 | 1338.0 | 1316.7 | 1293.6 | 1268.7 | 1259.8 | 1242.1 |
| 140°   | 1332.7 | 1334.5 | 1307.8 | 1293.6 | 1282.9 | 1263.4 | 1251.0 | 1229.6 | 1220.7 | 1204.8 | 1179.9 |
| 142.5° | 1274.1 | 1266.9 | 1245.6 | 1229.6 | 1219.0 | 1204.8 | 1197.6 | 1176.3 | 1162.1 | 1147.9 | 1139.0 |
| 145°   | 1204.8 | 1203.0 | 1178.1 | 1167.4 | 1158.6 | 1153.2 | 1140.8 | 1124.8 | 1117.7 | 1105.2 | 1105.2 |
| 147.5° | 1146.1 | 1137.2 | 1123.0 | 1110.6 | 1099.9 | 1094.6 | 1094.6 | 1066.2 | 1071.5 | 1069.7 | 1053.7 |
| 150°   | 1083.9 | 1082.1 | 1062.6 | 1057.3 | 1048.4 | 1051.9 | 1048.4 | 1035.9 | 1035.9 | 1028.8 | 1018.2 |
| 152.5° | 1034.2 | 1034.2 | 1018.2 | 1014.6 | 1011.1 | 1009.3 | 1002.2 | 996.9  | 996.9  | 995.1  | 982.6  |
| 155°   | 993.3  | 993.3  | 980.9  | 979.1  | 973.8  | 972.0  | 968.4  | 963.1  | 959.5  | 956.0  | 945.3  |
| 157.5° | 959.5  | 957.8  | 943.5  | 945.3  | 940.0  | 940.0  | 938.2  | 927.6  | 931.1  | 929.3  | 922.2  |
| 160°   | 927.6  | 925.8  | 911.6  | 916.9  | 913.3  | 913.3  | 913.3  | 906.2  | 902.7  | 902.7  | 886.7  |
| 162.5° | 899.1  | 902.7  | 888.5  | 886.7  | 888.5  | 888.5  | 881.4  | 876.0  | 881.4  | 886.7  | 870.7  |
| 165°   | 874.2  | 870.7  | 865.4  | 863.6  | 860.0  | 856.5  | 860.0  | 856.5  | 852.9  | 860.0  | 854.7  |
| 167.5° | 849.4  | 852.9  | 842.3  | 838.7  | 838.7  | 845.8  | 840.5  | 833.4  | 836.9  | 835.2  | 824.5  |
| 170°   | 828.0  | 831.6  | 817.4  | 817.4  | 817.4  | 817.4  | 812.1  | 806.7  | 815.6  | 819.2  | 806.7  |
| 172.5° | 806.7  | 812.1  | 799.6  | 797.8  | 796.1  | 799.6  | 796.1  | 790.7  | 801.4  | 796.1  | 790.7  |
| 175°   | 783.6  | 792.5  | 780.1  | 778.3  | 781.8  | 781.8  | 778.3  | 774.7  | 781.8  | 778.3  | 774.7  |
| 177.5° | 773.0  | 773.0  | 760.5  | 762.3  | 762.3  | 760.5  | 765.9  | 764.1  | 765.9  | 765.9  | 773.0  |
| 180°   | 757.0  | 757.0  | 757.0  | 757.0  | 757.0  | 757.0  | 757.0  | 757.0  | 757.0  | 757.0  | 757.0  |



TEST NUMBER: P508424

CATALOG NUMBER: ASYX-X-S1-X-U-W-L30-1-UNV-X-X-X-STD

**CANDELA DISTRIBUTION (continued):**

|        | 45°    | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 40.9   | 48.0   | 51.5   | 28.4   | 28.4   | 32.0   | 30.2   | 26.7   | 23.1   | 21.3   | 21.3   |
| 95°    | 307.4  | 291.4  | 300.3  | 270.1  | 234.6  | 206.1  | 204.3  | 206.1  | 142.2  | 106.6  | 104.8  |
| 97.5°  | 661.0  | 653.9  | 598.8  | 513.5  | 488.7  | 490.4  | 460.2  | 382.0  | 319.8  | 273.6  | 236.3  |
| 100°   | 860.0  | 836.9  | 812.1  | 829.8  | 780.1  | 741.0  | 685.9  | 616.6  | 543.7  | 481.5  | 396.3  |
| 102.5° | 1226.1 | 1190.5 | 1099.9 | 1000.4 | 900.9  | 865.4  | 824.5  | 746.3  | 669.9  | 597.0  | 510.0  |
| 105°   | 1560.1 | 1499.7 | 1346.9 | 1204.8 | 1069.7 | 1028.8 | 975.5  | 888.5  | 799.6  | 726.8  | 630.8  |
| 107.5° | 1640.1 | 1595.7 | 1510.4 | 1414.4 | 1297.2 | 1229.6 | 1179.9 | 1085.7 | 1002.2 | 902.7  | 792.5  |
| 110°   | 1647.2 | 1602.8 | 1549.5 | 1483.7 | 1426.9 | 1387.8 | 1355.8 | 1284.7 | 1224.3 | 1137.2 | 1025.3 |
| 112.5° | 1627.7 | 1586.8 | 1547.7 | 1510.4 | 1466.0 | 1442.9 | 1414.4 | 1389.6 | 1354.0 | 1297.2 | 1192.3 |
| 115°   | 1595.7 | 1560.1 | 1524.6 | 1492.6 | 1471.3 | 1460.6 | 1446.4 | 1426.9 | 1407.3 | 1364.7 | 1270.5 |
| 117.5° | 1565.5 | 1524.6 | 1492.6 | 1482.0 | 1462.4 | 1446.4 | 1444.6 | 1441.1 | 1428.6 | 1407.3 | 1316.7 |
| 120°   | 1535.3 | 1503.3 | 1471.3 | 1448.2 | 1441.1 | 1439.3 | 1439.3 | 1428.6 | 1432.2 | 1414.4 | 1323.8 |
| 122.5° | 1487.3 | 1462.4 | 1435.8 | 1425.1 | 1394.9 | 1402.0 | 1405.5 | 1398.4 | 1412.7 | 1400.2 | 1314.9 |
| 125°   | 1458.9 | 1434.0 | 1400.2 | 1384.2 | 1378.9 | 1371.8 | 1378.9 | 1366.5 | 1373.6 | 1364.7 | 1298.9 |
| 127.5° | 1410.9 | 1378.9 | 1361.1 | 1348.7 | 1345.1 | 1320.3 | 1332.7 | 1334.5 | 1336.2 | 1322.0 | 1263.4 |
| 130°   | 1359.3 | 1341.6 | 1300.7 | 1306.0 | 1306.0 | 1297.2 | 1298.9 | 1291.8 | 1288.3 | 1275.8 | 1208.3 |
| 132.5° | 1322.0 | 1298.9 | 1272.3 | 1265.2 | 1258.1 | 1256.3 | 1256.3 | 1243.8 | 1243.8 | 1227.9 | 1183.4 |
| 135°   | 1256.3 | 1240.3 | 1229.6 | 1222.5 | 1220.7 | 1213.6 | 1213.6 | 1201.2 | 1199.4 | 1185.2 | 1140.8 |
| 137.5° | 1210.1 | 1194.1 | 1185.2 | 1179.9 | 1174.5 | 1162.1 | 1169.2 | 1158.6 | 1147.9 | 1144.3 | 1101.7 |
| 140°   | 1163.9 | 1151.4 | 1144.3 | 1135.5 | 1133.7 | 1126.6 | 1126.6 | 1114.1 | 1110.6 | 1094.6 | 1051.9 |
| 142.5° | 1124.8 | 1117.7 | 1103.5 | 1099.9 | 1087.5 | 1089.3 | 1080.4 | 1082.1 | 1067.9 | 1050.2 | 1016.4 |
| 145°   | 1071.5 | 1073.3 | 1066.2 | 1059.0 | 1057.3 | 1046.6 | 1048.4 | 1037.7 | 1028.8 | 1016.4 | 989.7  |
| 147.5° | 1043.1 | 1043.1 | 1032.4 | 1023.5 | 1016.4 | 1014.6 | 1005.7 | 1007.5 | 993.3  | 975.5  | 957.8  |
| 150°   | 1005.7 | 1002.2 | 991.5  | 986.2  | 980.9  | 980.9  | 972.0  | 966.6  | 956.0  | 950.7  | 927.6  |
| 152.5° | 979.1  | 970.2  | 964.9  | 954.2  | 954.2  | 945.3  | 938.2  | 934.7  | 925.8  | 915.1  | 897.3  |
| 155°   | 941.8  | 938.2  | 931.1  | 929.3  | 922.2  | 915.1  | 902.7  | 900.9  | 895.6  | 884.9  | 868.9  |
| 157.5° | 911.6  | 916.9  | 906.2  | 900.9  | 890.2  | 888.5  | 876.0  | 877.8  | 867.1  | 860.0  | 845.8  |
| 160°   | 897.3  | 888.5  | 877.8  | 876.0  | 872.5  | 858.3  | 856.5  | 851.1  | 844.0  | 838.7  | 820.9  |
| 162.5° | 865.4  | 863.6  | 858.3  | 854.7  | 842.3  | 842.3  | 820.9  | 829.8  | 824.5  | 819.2  | 810.3  |
| 165°   | 847.6  | 849.4  | 836.9  | 833.4  | 829.8  | 822.7  | 817.4  | 812.1  | 806.7  | 803.2  | 794.3  |
| 167.5° | 824.5  | 820.9  | 817.4  | 810.3  | 812.1  | 806.7  | 801.4  | 797.8  | 794.3  | 790.7  | 783.6  |
| 170°   | 804.9  | 803.2  | 799.6  | 794.3  | 796.1  | 790.7  | 790.7  | 783.6  | 781.8  | 780.1  | 771.2  |
| 172.5° | 789.0  | 789.0  | 785.4  | 785.4  | 783.6  | 778.3  | 774.7  | 771.2  | 771.2  | 767.6  | 765.9  |
| 175°   | 773.0  | 774.7  | 773.0  | 771.2  | 771.2  | 767.6  | 767.6  | 769.4  | 765.9  | 765.9  | 760.5  |
| 177.5° | 760.5  | 760.5  | 760.5  | 760.5  | 760.5  | 760.5  | 760.5  | 758.7  | 760.5  | 758.7  | 753.4  |
| 180°   | 757.0  | 757.0  | 757.0  | 757.0  | 757.0  | 757.0  | 757.0  | 757.0  | 757.0  | 757.0  | 757.0  |



TEST NUMBER: P508424

CATALOG NUMBER: ASYX-X-S1-X-U-W-L30-1-UNV-X-X-X-STD

**CANDELA DISTRIBUTION (continued):**

|        | 95°    | 100°   | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  |
|--------|--------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 90°    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 92.5°  | 23.1   | 24.9   | 26.7  | 28.4  | 33.8   | 32.0  | 37.3  | 39.1  | 42.6  | 49.8  | 51.5  |
| 95°    | 94.2   | 94.2   | 92.4  | 92.4  | 88.8   | 88.8  | 87.1  | 85.3  | 94.2  | 104.8 | 119.1 |
| 97.5°  | 193.7  | 165.3  | 151.0 | 145.7 | 143.9  | 142.2 | 138.6 | 133.3 | 136.8 | 145.7 | 163.5 |
| 100°   | 327.0  | 270.1  | 223.9 | 197.2 | 191.9  | 183.0 | 179.5 | 177.7 | 177.7 | 195.5 | 223.9 |
| 102.5° | 422.9  | 339.4  | 279.0 | 239.9 | 229.2  | 220.3 | 215.0 | 215.0 | 218.6 | 239.9 | 271.9 |
| 105°   | 534.9  | 428.2  | 335.8 | 284.3 | 275.4  | 263.0 | 254.1 | 255.9 | 259.4 | 279.0 | 307.4 |
| 107.5° | 669.9  | 542.0  | 431.8 | 351.8 | 332.3  | 314.5 | 300.3 | 300.3 | 302.1 | 314.5 | 335.8 |
| 110°   | 872.5  | 707.2  | 542.0 | 422.9 | 390.9  | 371.4 | 337.6 | 337.6 | 335.8 | 344.7 | 358.9 |
| 112.5° | 1027.1 | 835.2  | 646.8 | 494.0 | 449.6  | 417.6 | 382.0 | 371.4 | 371.4 | 373.2 | 382.0 |
| 115°   | 1119.5 | 920.4  | 719.7 | 559.7 | 501.1  | 462.0 | 417.6 | 405.1 | 399.8 | 403.4 | 399.8 |
| 117.5° | 1172.8 | 972.0  | 781.8 | 607.7 | 552.6  | 508.2 | 453.1 | 437.1 | 428.2 | 435.3 | 433.6 |
| 120°   | 1199.4 | 1018.2 | 831.6 | 657.5 | 600.6  | 549.1 | 490.4 | 474.4 | 467.3 | 467.3 | 469.1 |
| 122.5° | 1203.0 | 1043.1 | 860.0 | 701.9 | 645.0  | 595.3 | 534.9 | 511.8 | 504.6 | 506.4 | 506.4 |
| 125°   | 1190.5 | 1039.5 | 886.7 | 737.4 | 682.3  | 632.6 | 570.4 | 550.8 | 534.9 | 542.0 | 543.7 |
| 127.5° | 1171.0 | 1030.6 | 902.7 | 765.9 | 716.1  | 671.7 | 614.8 | 591.7 | 577.5 | 581.1 | 579.3 |
| 130°   | 1142.6 | 1020.0 | 916.9 | 790.7 | 748.1  | 703.7 | 653.9 | 632.6 | 613.0 | 614.8 | 616.6 |
| 132.5° | 1114.1 | 1016.4 | 924.0 | 810.3 | 774.7  | 737.4 | 687.7 | 666.3 | 648.6 | 650.4 | 650.4 |
| 135°   | 1083.9 | 1007.5 | 915.1 | 822.7 | 804.9  | 765.9 | 725.0 | 701.9 | 687.7 | 687.7 | 684.1 |
| 137.5° | 1051.9 | 986.2  | 922.2 | 847.6 | 822.7  | 790.7 | 749.9 | 732.1 | 717.9 | 716.1 | 714.3 |
| 140°   | 1023.5 | 963.1  | 913.3 | 852.9 | 835.2  | 810.3 | 776.5 | 762.3 | 742.8 | 739.2 | 749.9 |
| 142.5° | 995.1  | 952.4  | 922.2 | 865.4 | 847.6  | 826.3 | 801.4 | 781.8 | 767.6 | 764.1 | 762.3 |
| 145°   | 966.6  | 941.8  | 908.0 | 861.8 | 854.7  | 833.4 | 806.7 | 801.4 | 785.4 | 781.8 | 781.8 |
| 147.5° | 938.2  | 916.9  | 892.0 | 860.0 | 860.0  | 842.3 | 829.8 | 813.8 | 801.4 | 794.3 | 794.3 |
| 150°   | 913.3  | 895.6  | 883.1 | 858.3 | 856.5  | 842.3 | 831.6 | 824.5 | 810.3 | 806.7 | 804.9 |
| 152.5° | 890.2  | 874.2  | 863.6 | 847.6 | 845.8  | 826.3 | 829.8 | 822.7 | 808.5 | 804.9 | 804.9 |
| 155°   | 861.8  | 860.0  | 847.6 | 831.6 | 838.7  | 828.0 | 819.2 | 828.0 | 806.7 | 810.3 | 810.3 |
| 157.5° | 842.3  | 840.5  | 838.7 | 822.7 | 824.5  | 819.2 | 813.8 | 820.9 | 803.2 | 804.9 | 804.9 |
| 160°   | 820.9  | 817.4  | 817.4 | 803.2 | 813.8  | 803.2 | 804.9 | 808.5 | 797.8 | 799.6 | 804.9 |
| 162.5° | 810.3  | 803.2  | 803.2 | 797.8 | 801.4  | 797.8 | 789.0 | 801.4 | 799.6 | 796.1 | 797.8 |
| 165°   | 792.5  | 790.7  | 794.3 | 783.6 | 792.5  | 781.8 | 785.4 | 790.7 | 787.2 | 789.0 | 790.7 |
| 167.5° | 781.8  | 780.1  | 781.8 | 776.5 | 781.8  | 778.3 | 776.5 | 783.6 | 780.1 | 781.8 | 783.6 |
| 170°   | 773.0  | 773.0  | 774.7 | 769.4 | 774.7  | 769.4 | 774.7 | 774.7 | 773.0 | 773.0 | 776.5 |
| 172.5° | 769.4  | 764.1  | 769.4 | 760.5 | 769.4  | 758.7 | 762.3 | 767.6 | 765.9 | 764.1 | 764.1 |
| 175°   | 762.3  | 760.5  | 765.9 | 757.0 | 762.3  | 757.0 | 757.0 | 762.3 | 760.5 | 758.7 | 765.9 |
| 177.5° | 762.3  | 757.0  | 762.3 | 753.4 | 758.7  | 755.2 | 755.2 | 760.5 | 757.0 | 757.0 | 762.3 |
| 180°   | 757.0  | 757.0  | 757.0 | 757.0 | 757.0  | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 |





TEST NUMBER: P508424

CATALOG NUMBER: ASYX-X-S1-X-U-W-L30-1-UNV-X-X-X-STD

**CANDELA DISTRIBUTION (continued):**

|        | 145°  | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 90°    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 92.5°  | 51.5  | 60.4  | 62.2  | 67.5   | 65.7  | 55.1  | 48.0  | 39.1  | 33.8  |
| 95°    | 135.0 | 149.3 | 163.5 | 161.7  | 167.0 | 156.4 | 145.7 | 140.4 | 133.3 |
| 97.5°  | 181.2 | 204.3 | 218.6 | 218.6  | 220.3 | 213.2 | 209.7 | 213.2 | 204.3 |
| 100°   | 255.9 | 271.9 | 277.2 | 275.4  | 270.1 | 257.7 | 250.5 | 247.0 | 241.7 |
| 102.5° | 300.3 | 318.1 | 323.4 | 319.8  | 316.3 | 311.0 | 303.9 | 300.3 | 298.5 |
| 105°   | 330.5 | 346.5 | 353.6 | 351.8  | 350.1 | 341.2 | 327.0 | 332.3 | 330.5 |
| 107.5° | 358.9 | 369.6 | 376.7 | 371.4  | 369.6 | 364.3 | 355.4 | 360.7 | 353.6 |
| 110°   | 376.7 | 385.6 | 387.4 | 387.4  | 383.8 | 378.5 | 371.4 | 373.2 | 367.8 |
| 112.5° | 390.9 | 396.3 | 396.3 | 396.3  | 392.7 | 385.6 | 382.0 | 378.5 | 378.5 |
| 115°   | 406.9 | 403.4 | 405.1 | 405.1  | 401.6 | 390.9 | 385.6 | 382.0 | 378.5 |
| 117.5° | 435.3 | 430.0 | 424.7 | 424.7  | 415.8 | 408.7 | 403.4 | 398.0 | 392.7 |
| 120°   | 462.0 | 458.4 | 454.9 | 449.6  | 444.2 | 435.3 | 426.5 | 419.4 | 415.8 |
| 122.5° | 497.5 | 488.7 | 483.3 | 486.9  | 476.2 | 467.3 | 456.7 | 449.6 | 440.7 |
| 125°   | 536.6 | 529.5 | 520.6 | 517.1  | 508.2 | 501.1 | 492.2 | 485.1 | 474.4 |
| 127.5° | 570.4 | 559.7 | 556.2 | 554.4  | 543.7 | 534.9 | 520.6 | 515.3 | 515.3 |
| 130°   | 609.5 | 597.0 | 598.8 | 589.9  | 581.1 | 566.8 | 552.6 | 552.6 | 550.8 |
| 132.5° | 646.8 | 632.6 | 630.8 | 627.3  | 616.6 | 605.9 | 597.0 | 595.3 | 588.2 |
| 135°   | 677.0 | 666.3 | 664.6 | 661.0  | 652.1 | 641.5 | 627.3 | 630.8 | 616.6 |
| 137.5° | 703.7 | 698.3 | 696.6 | 689.4  | 680.6 | 678.8 | 662.8 | 661.0 | 652.1 |
| 140°   | 733.9 | 723.2 | 730.3 | 721.4  | 710.8 | 707.2 | 685.9 | 689.4 | 689.4 |
| 142.5° | 755.2 | 749.9 | 748.1 | 744.5  | 737.4 | 730.3 | 725.0 | 717.9 | 721.4 |
| 145°   | 776.5 | 773.0 | 769.4 | 769.4  | 758.7 | 755.2 | 744.5 | 744.5 | 739.2 |
| 147.5° | 794.3 | 787.2 | 787.2 | 783.6  | 778.3 | 774.7 | 764.1 | 769.4 | 760.5 |
| 150°   | 794.3 | 797.8 | 794.3 | 794.3  | 796.1 | 794.3 | 785.4 | 781.8 | 783.6 |
| 152.5° | 808.5 | 803.2 | 799.6 | 806.7  | 797.8 | 803.2 | 790.7 | 794.3 | 790.7 |
| 155°   | 801.4 | 804.9 | 806.7 | 803.2  | 803.2 | 803.2 | 797.8 | 806.7 | 797.8 |
| 157.5° | 808.5 | 804.9 | 806.7 | 804.9  | 801.4 | 806.7 | 801.4 | 808.5 | 803.2 |
| 160°   | 804.9 | 801.4 | 804.9 | 803.2  | 799.6 | 806.7 | 806.7 | 812.1 | 804.9 |
| 162.5° | 792.5 | 796.1 | 804.9 | 799.6  | 799.6 | 812.1 | 792.5 | 810.3 | 799.6 |
| 165°   | 789.0 | 790.7 | 794.3 | 797.8  | 790.7 | 796.1 | 796.1 | 797.8 | 792.5 |
| 167.5° | 785.4 | 778.3 | 785.4 | 785.4  | 787.2 | 787.2 | 787.2 | 790.7 | 783.6 |
| 170°   | 778.3 | 764.1 | 778.3 | 778.3  | 774.7 | 774.7 | 773.0 | 783.6 | 774.7 |
| 172.5° | 765.9 | 762.3 | 767.6 | 767.6  | 771.2 | 769.4 | 769.4 | 771.2 | 765.9 |
| 175°   | 758.7 | 760.5 | 767.6 | 762.3  | 760.5 | 762.3 | 757.0 | 762.3 | 757.0 |
| 177.5° | 755.2 | 755.2 | 757.0 | 758.7  | 762.3 | 758.7 | 753.4 | 758.7 | 753.4 |
| 180°   | 757.0 | 757.0 | 757.0 | 757.0  | 757.0 | 757.0 | 757.0 | 757.0 | 757.0 |

(END OF REPORT)