

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: NEO-RAY

Report Number: P332703-830

Luminaire Tested: **SA4XXDIP-C1195D1035U830-4F0-1E-UDD-F**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332703-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-F
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

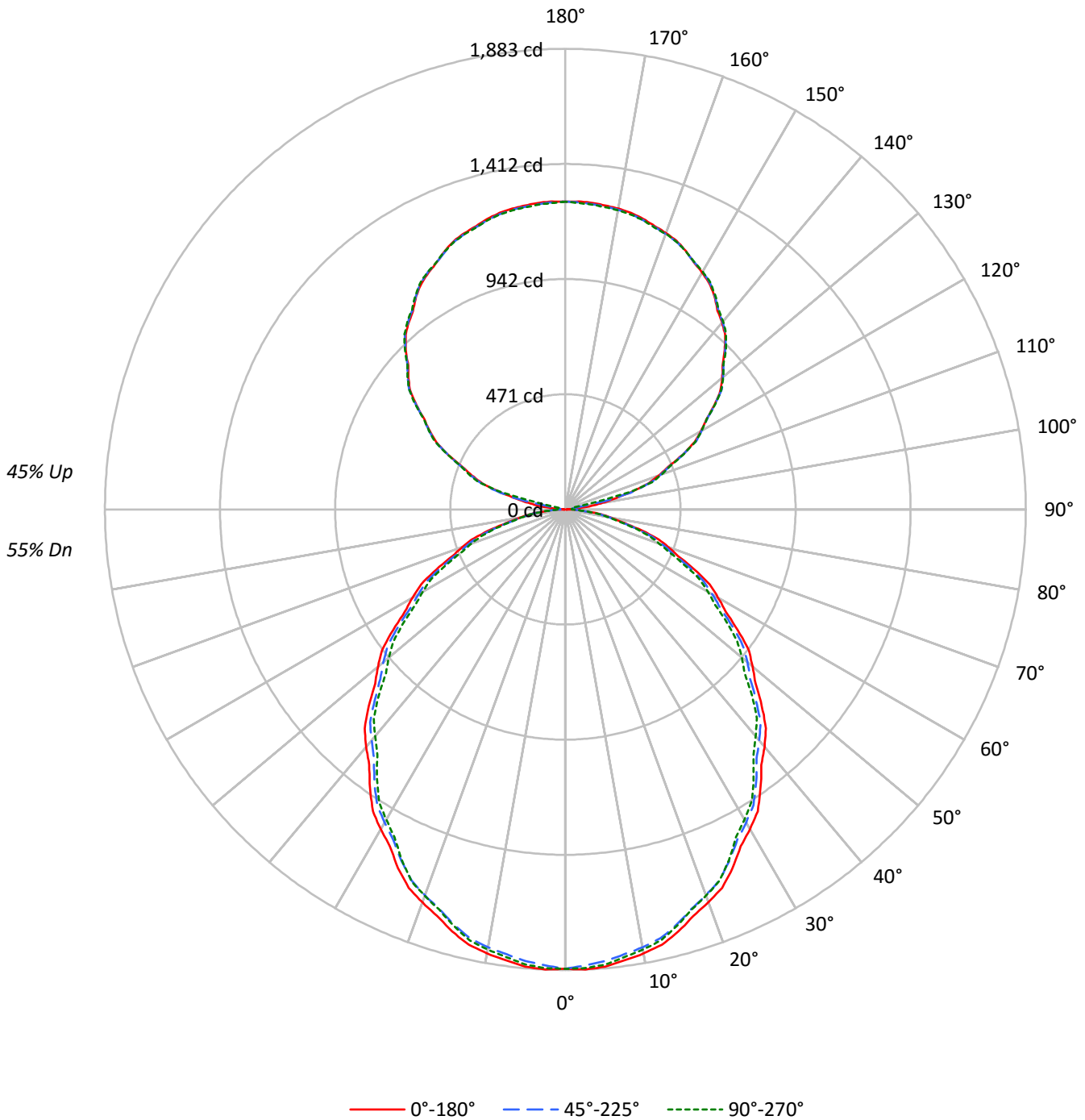
Lumens per Lamp: N/A
Luminaire Lumens: 8715.1 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 66.8
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: 25 FT



TEST NUMBER: P332703-830
CATALOG NUMBER: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332703-830

CATALOG NUMBER: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-F

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 108 | 108 | 108 | 108 | 101 | 101 | 101 | 101 | 86 | 86 | 86 | 73 | 73 | 73 | 61 | 61 | 61 | 55 |
| 1 | 99 | 95 | 91 | 87 | 92 | 88 | 85 | 81 | 76 | 73 | 71 | 64 | 63 | 61 | 54 | 53 | 51 | 47 |
| 2 | 90 | 83 | 76 | 71 | 83 | 77 | 71 | 67 | 66 | 62 | 59 | 56 | 53 | 51 | 47 | 45 | 43 | 39 |
| 3 | 82 | 73 | 65 | 59 | 76 | 68 | 61 | 56 | 58 | 53 | 49 | 50 | 46 | 43 | 42 | 39 | 37 | 33 |
| 4 | 75 | 64 | 56 | 50 | 70 | 60 | 53 | 47 | 52 | 46 | 42 | 44 | 40 | 37 | 38 | 34 | 32 | 28 |
| 5 | 69 | 57 | 49 | 43 | 64 | 54 | 46 | 41 | 47 | 41 | 36 | 40 | 35 | 32 | 34 | 30 | 28 | 25 |
| 6 | 64 | 51 | 43 | 37 | 59 | 48 | 41 | 35 | 42 | 36 | 32 | 36 | 32 | 28 | 31 | 27 | 24 | 22 |
| 7 | 59 | 46 | 38 | 33 | 55 | 44 | 36 | 31 | 38 | 32 | 28 | 33 | 28 | 25 | 28 | 24 | 22 | 19 |
| 8 | 55 | 42 | 34 | 29 | 51 | 40 | 33 | 28 | 35 | 29 | 25 | 30 | 26 | 22 | 26 | 22 | 19 | 17 |
| 9 | 51 | 39 | 31 | 26 | 47 | 36 | 29 | 25 | 32 | 26 | 22 | 28 | 23 | 20 | 24 | 20 | 18 | 15 |
| 10 | 48 | 35 | 28 | 23 | 44 | 33 | 27 | 22 | 29 | 24 | 20 | 26 | 21 | 18 | 22 | 19 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15163 | 15163 | 15163 |
| 5° | 15209 | 15027 | 15135 |
| 10° | 15114 | 14905 | 14978 |
| 15° | 14931 | 14692 | 14730 |
| 20° | 14689 | 14430 | 14442 |
| 25° | 14412 | 14130 | 14091 |
| 30° | 14072 | 13778 | 13651 |
| 35° | 13720 | 13409 | 13232 |
| 40° | 13354 | 12991 | 12752 |
| 45° | 12973 | 12578 | 12337 |
| 50° | 12552 | 12210 | 11833 |
| 55° | 12096 | 11736 | 11354 |
| 60° | 11641 | 11202 | 10863 |
| 65° | 11127 | 10695 | 10264 |
| 70° | 10551 | 10017 | 9626 |
| 75° | 9669 | 9201 | 8968 |
| 80° | 8605 | 8257 | 8047 |
| 85° | 7521 | 7243 | 7104 |



TEST NUMBER: P332703-830

CATALOG NUMBER: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 176.9 | 2.0 |
| 10°-20° | 498.4 | 5.7 |
| 20°-30° | 733.6 | 8.4 |
| 30°-40° | 852.8 | 9.8 |
| 40°-50° | 852.8 | 9.8 |
| 50°-60° | 746.0 | 8.6 |
| 60°-70° | 554.0 | 6.4 |
| 70°-80° | 314.7 | 3.6 |
| 80°-90° | 94.5 | 1.1 |
| 90°-100° | 43.0 | 0.5 |
| 100°-110° | 274.3 | 3.1 |
| 110°-120° | 524.8 | 6.0 |
| 120°-130° | 666.2 | 7.6 |
| 130°-140° | 712.8 | 8.2 |
| 140°-150° | 666.5 | 7.6 |
| 150°-160° | 537.5 | 6.2 |
| 160°-170° | 346.7 | 4.0 |
| 170°-180° | 119.5 | 1.4 |
| 0°-30° | 1408.8 | 16.2 |
| 0°-40° | 2261.6 | 26.0 |
| 0°-60° | 3860.5 | 44.3 |
| 0°-90° | 4823.7 | 55.3 |
| 90°-120° | 842.2 | 9.7 |
| 90°-150° | 2887.7 | 33.1 |
| 90°-180° | 3891.0 | 44.6 |
| 0°-180° | 8715.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1878 | 1878 | 1878 | 1878 | 1878 | |
| 5° | 1877 | 1870 | 1854 | 1870 | 1868 | 178 |
| 15° | 1786 | 1780 | 1758 | 1766 | 1762 | 503 |
| 25° | 1618 | 1607 | 1586 | 1587 | 1582 | 744 |
| 35° | 1392 | 1381 | 1361 | 1350 | 1343 | 870 |
| 45° | 1136 | 1125 | 1102 | 1086 | 1081 | 876 |
| 55° | 859 | 854 | 834 | 816 | 807 | 769 |
| 65° | 582 | 575 | 560 | 545 | 537 | 577 |
| 75° | 310 | 302 | 295 | 289 | 288 | 329 |
| 85° | 81 | 81 | 78 | 78 | 77 | 89 |
| 90° | 3 | 13 | 21 | 26 | 28 | 7 |
| 95° | 52 | 22 | 21 | 26 | 27 | 67 |
| 105° | 283 | 289 | 294 | 300 | 268 | 296 |
| 115° | 529 | 531 | 531 | 532 | 532 | 520 |
| 125° | 743 | 747 | 745 | 748 | 749 | 663 |
| 135° | 922 | 921 | 925 | 927 | 929 | 710 |
| 145° | 1063 | 1066 | 1066 | 1067 | 1069 | 664 |
| 155° | 1166 | 1166 | 1164 | 1167 | 1165 | 537 |
| 165° | 1230 | 1225 | 1225 | 1232 | 1224 | 347 |
| 175° | 1258 | 1253 | 1253 | 1261 | 1250 | 120 |
| 180° | 1258 | 1258 | 1258 | 1258 | 1258 | |



TEST NUMBER: P332703-830

CATALOG NUMBER: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 |
| 2.5° | 1883.1 | 1882.4 | 1881.5 | 1880.7 | 1879.9 | 1878.0 | 1875.1 | 1872.2 | 1869.3 | 1866.3 | 1869.0 |
| 5° | 1876.8 | 1875.5 | 1874.2 | 1872.8 | 1871.5 | 1869.0 | 1865.3 | 1861.6 | 1857.9 | 1854.3 | 1857.9 |
| 7.5° | 1859.4 | 1858.0 | 1856.7 | 1855.3 | 1854.0 | 1851.3 | 1847.2 | 1843.1 | 1839.1 | 1834.9 | 1838.0 |
| 10° | 1843.7 | 1842.4 | 1841.1 | 1839.7 | 1838.3 | 1835.5 | 1831.2 | 1826.8 | 1822.5 | 1818.2 | 1820.8 |
| 12.5° | 1823.3 | 1821.9 | 1820.5 | 1819.2 | 1817.9 | 1814.9 | 1810.3 | 1805.7 | 1801.1 | 1796.5 | 1799.4 |
| 15° | 1786.5 | 1785.2 | 1783.9 | 1782.5 | 1781.1 | 1778.0 | 1772.9 | 1767.9 | 1762.9 | 1757.9 | 1759.9 |
| 17.5° | 1742.3 | 1740.6 | 1738.9 | 1737.3 | 1735.6 | 1732.4 | 1727.6 | 1722.9 | 1718.2 | 1713.4 | 1714.7 |
| 20° | 1709.8 | 1708.1 | 1706.4 | 1704.8 | 1703.1 | 1699.7 | 1694.7 | 1689.7 | 1684.7 | 1679.6 | 1680.6 |
| 22.5° | 1674.8 | 1672.6 | 1670.5 | 1668.2 | 1666.0 | 1662.4 | 1657.4 | 1652.4 | 1647.4 | 1642.3 | 1644.2 |
| 25° | 1618.0 | 1615.6 | 1613.3 | 1610.9 | 1608.5 | 1605.1 | 1600.3 | 1595.7 | 1591.0 | 1586.3 | 1586.7 |
| 27.5° | 1552.9 | 1550.5 | 1548.1 | 1545.7 | 1543.3 | 1539.9 | 1535.6 | 1531.3 | 1526.9 | 1522.5 | 1521.7 |
| 30° | 1509.6 | 1506.9 | 1504.2 | 1501.6 | 1498.9 | 1495.3 | 1491.0 | 1486.7 | 1482.3 | 1478.0 | 1476.7 |
| 32.5° | 1463.9 | 1461.4 | 1459.1 | 1456.6 | 1454.2 | 1450.7 | 1446.0 | 1441.4 | 1436.8 | 1432.2 | 1430.6 |
| 35° | 1392.2 | 1389.9 | 1387.5 | 1385.2 | 1382.8 | 1379.3 | 1374.6 | 1370.0 | 1365.3 | 1360.6 | 1358.2 |
| 37.5° | 1316.6 | 1314.5 | 1312.4 | 1310.2 | 1308.1 | 1304.5 | 1299.5 | 1294.5 | 1289.4 | 1284.4 | 1281.9 |
| 40° | 1267.2 | 1264.6 | 1261.9 | 1259.2 | 1256.6 | 1252.7 | 1247.7 | 1242.6 | 1237.7 | 1232.7 | 1229.3 |
| 42.5° | 1214.3 | 1212.7 | 1211.1 | 1209.5 | 1207.9 | 1204.3 | 1198.7 | 1193.2 | 1187.6 | 1182.0 | 1178.2 |
| 45° | 1136.3 | 1134.0 | 1131.6 | 1129.3 | 1127.0 | 1123.1 | 1117.8 | 1112.4 | 1107.0 | 1101.7 | 1098.1 |
| 47.5° | 1054.7 | 1053.1 | 1051.5 | 1049.9 | 1048.3 | 1045.1 | 1040.1 | 1035.2 | 1030.2 | 1025.3 | 1021.2 |
| 50° | 999.4 | 998.1 | 996.6 | 995.3 | 994.0 | 991.0 | 986.3 | 981.7 | 976.9 | 972.2 | 967.6 |
| 52.5° | 945.2 | 943.6 | 942.0 | 940.4 | 938.8 | 935.5 | 930.6 | 925.6 | 920.7 | 915.7 | 911.5 |
| 55° | 859.4 | 858.4 | 857.4 | 856.4 | 855.4 | 852.5 | 847.8 | 843.2 | 838.5 | 833.8 | 829.8 |
| 57.5° | 777.5 | 776.4 | 775.2 | 774.1 | 773.0 | 770.1 | 765.4 | 760.8 | 756.2 | 751.6 | 747.8 |
| 60° | 721.0 | 719.3 | 717.6 | 716.0 | 714.3 | 711.2 | 706.9 | 702.6 | 698.1 | 693.8 | 690.8 |
| 62.5° | 665.5 | 664.1 | 662.7 | 661.3 | 660.0 | 657.0 | 652.3 | 647.7 | 643.1 | 638.5 | 635.7 |
| 65° | 582.5 | 580.8 | 579.1 | 577.4 | 575.8 | 573.3 | 570.0 | 566.6 | 563.3 | 559.9 | 556.6 |
| 67.5° | 498.8 | 497.3 | 495.7 | 494.2 | 492.7 | 490.2 | 487.0 | 483.8 | 480.6 | 477.4 | 474.2 |
| 70° | 447.0 | 444.7 | 442.3 | 440.0 | 437.6 | 435.2 | 432.4 | 429.8 | 427.1 | 424.4 | 421.8 |
| 72.5° | 391.6 | 389.3 | 386.9 | 384.6 | 382.3 | 380.0 | 377.9 | 375.7 | 373.6 | 371.5 | 369.3 |
| 75° | 310.0 | 308.4 | 306.7 | 305.0 | 303.3 | 301.7 | 300.0 | 298.3 | 296.7 | 295.0 | 293.7 |
| 77.5° | 232.1 | 231.3 | 230.6 | 229.9 | 229.1 | 228.0 | 226.6 | 225.1 | 223.7 | 222.2 | 221.8 |
| 80° | 185.1 | 184.1 | 183.1 | 182.1 | 181.2 | 180.3 | 179.6 | 178.9 | 178.2 | 177.6 | 176.9 |
| 82.5° | 139.4 | 138.9 | 138.5 | 138.0 | 137.5 | 137.2 | 137.0 | 137.0 | 136.8 | 136.7 | 136.3 |
| 85° | 81.2 | 81.2 | 81.2 | 81.2 | 81.2 | 81.0 | 80.3 | 79.6 | 78.9 | 78.2 | 78.2 |
| 87.5° | 31.9 | 32.0 | 32.2 | 32.4 | 32.6 | 32.8 | 32.8 | 32.9 | 33.0 | 33.1 | 33.3 |
| 90° | 2.8 | 5.1 | 7.4 | 9.7 | 12.1 | 14.0 | 15.6 | 17.3 | 19.0 | 20.7 | 22.0 |
| 92.5° | 11.9 | 12.0 | 12.1 | 12.3 | 12.3 | 13.3 | 14.9 | 16.6 | 18.3 | 20.0 | 21.2 |
| 95° | 51.7 | 44.7 | 37.5 | 30.4 | 23.3 | 19.9 | 20.1 | 20.3 | 20.5 | 20.7 | 22.0 |
| 97.5° | 109.9 | 114.3 | 118.8 | 123.2 | 127.6 | 118.2 | 94.8 | 71.5 | 48.2 | 24.9 | 25.0 |
| 100° | 154.3 | 158.1 | 161.8 | 165.6 | 169.4 | 156.8 | 128.0 | 99.2 | 70.2 | 41.4 | 37.9 |
| 102.5° | 204.0 | 206.8 | 209.5 | 212.3 | 215.0 | 214.5 | 210.8 | 207.0 | 203.2 | 199.4 | 161.1 |
| 105° | 283.2 | 284.5 | 285.7 | 287.0 | 288.2 | 289.4 | 290.4 | 291.4 | 292.6 | 293.6 | 295.5 |
| 107.5° | 356.8 | 357.4 | 358.1 | 358.6 | 359.3 | 360.3 | 361.7 | 363.2 | 364.6 | 366.0 | 366.9 |
| 110° | 406.5 | 407.1 | 407.7 | 408.3 | 409.0 | 409.9 | 411.1 | 412.5 | 413.7 | 414.9 | 415.4 |



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CATALOG NUMBER: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 454.7 | 455.8 | 456.9 | 458.1 | 459.2 | 460.1 | 460.6 | 461.2 | 461.8 | 462.3 | 462.3 |
| 115° | 528.8 | 529.4 | 530.1 | 530.7 | 531.3 | 531.5 | 531.3 | 531.1 | 530.8 | 530.7 | 531.1 |
| 117.5° | 595.6 | 596.4 | 597.3 | 598.1 | 599.0 | 599.6 | 600.0 | 600.5 | 601.0 | 601.4 | 601.3 |
| 120° | 640.7 | 641.6 | 642.4 | 643.3 | 644.1 | 644.4 | 644.2 | 644.0 | 643.8 | 643.6 | 644.0 |
| 122.5° | 682.9 | 683.4 | 683.9 | 684.4 | 684.9 | 685.3 | 685.6 | 685.9 | 686.2 | 686.5 | 686.7 |
| 125° | 743.3 | 744.1 | 745.0 | 745.8 | 746.7 | 746.9 | 746.5 | 746.0 | 745.6 | 745.2 | 745.8 |
| 127.5° | 800.5 | 800.7 | 801.0 | 801.2 | 801.3 | 801.9 | 803.0 | 803.9 | 804.8 | 805.8 | 805.7 |
| 130° | 837.4 | 837.6 | 837.8 | 838.0 | 838.2 | 838.7 | 839.3 | 839.9 | 840.6 | 841.2 | 841.4 |
| 132.5° | 871.3 | 871.7 | 872.0 | 872.4 | 872.8 | 873.4 | 874.2 | 875.0 | 875.7 | 876.6 | 876.8 |
| 135° | 922.1 | 921.9 | 921.7 | 921.4 | 921.2 | 921.5 | 922.4 | 923.2 | 924.1 | 924.9 | 925.3 |
| 137.5° | 967.0 | 967.1 | 967.2 | 967.3 | 967.4 | 967.9 | 968.8 | 969.8 | 970.6 | 971.6 | 972.0 |
| 140° | 996.5 | 996.8 | 997.3 | 997.7 | 998.1 | 998.5 | 998.9 | 999.4 | 999.8 | 1000.2 | 1000.8 |
| 142.5° | 1022.8 | 1023.5 | 1024.3 | 1025.0 | 1025.8 | 1026.2 | 1026.5 | 1026.8 | 1027.0 | 1027.3 | 1027.7 |
| 145° | 1063.2 | 1063.8 | 1064.5 | 1065.1 | 1065.7 | 1066.0 | 1066.0 | 1066.0 | 1066.0 | 1066.0 | 1066.3 |
| 147.5° | 1095.4 | 1096.6 | 1097.8 | 1098.9 | 1100.1 | 1100.6 | 1100.3 | 1100.1 | 1099.9 | 1099.8 | 1099.9 |
| 150° | 1118.7 | 1119.6 | 1120.4 | 1121.2 | 1122.1 | 1122.4 | 1122.2 | 1122.0 | 1121.8 | 1121.5 | 1121.5 |
| 152.5° | 1138.3 | 1139.0 | 1139.6 | 1140.3 | 1140.9 | 1141.1 | 1140.8 | 1140.4 | 1140.0 | 1139.6 | 1140.0 |
| 155° | 1165.8 | 1166.0 | 1166.2 | 1166.4 | 1166.6 | 1166.4 | 1165.8 | 1165.2 | 1164.5 | 1163.9 | 1164.7 |
| 157.5° | 1188.9 | 1188.8 | 1188.6 | 1188.5 | 1188.5 | 1188.0 | 1187.3 | 1186.6 | 1185.9 | 1185.2 | 1186.3 |
| 160° | 1202.5 | 1201.8 | 1201.3 | 1200.6 | 1200.0 | 1199.6 | 1199.4 | 1199.1 | 1198.9 | 1198.7 | 1200.0 |
| 162.5° | 1214.6 | 1213.7 | 1213.0 | 1212.1 | 1211.4 | 1210.9 | 1210.6 | 1210.4 | 1210.2 | 1210.0 | 1211.3 |
| 165° | 1229.7 | 1228.7 | 1227.7 | 1226.6 | 1225.6 | 1225.0 | 1225.0 | 1225.0 | 1225.0 | 1225.0 | 1226.7 |
| 167.5° | 1241.8 | 1240.8 | 1239.6 | 1238.6 | 1237.5 | 1236.9 | 1236.7 | 1236.6 | 1236.5 | 1236.3 | 1238.2 |
| 170° | 1248.6 | 1247.4 | 1246.0 | 1244.8 | 1243.6 | 1243.0 | 1243.2 | 1243.5 | 1243.7 | 1243.9 | 1245.6 |
| 172.5° | 1253.1 | 1251.9 | 1250.6 | 1249.3 | 1248.1 | 1247.5 | 1247.7 | 1248.0 | 1248.2 | 1248.4 | 1250.1 |
| 175° | 1258.0 | 1256.8 | 1255.5 | 1254.2 | 1253.0 | 1252.5 | 1252.6 | 1252.9 | 1253.1 | 1253.3 | 1255.2 |
| 177.5° | 1260.3 | 1259.0 | 1257.9 | 1256.8 | 1255.6 | 1255.2 | 1255.5 | 1255.8 | 1256.1 | 1256.5 | 1257.8 |
| 180° | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 |



TEST NUMBER: P332703-830
 CATALOG NUMBER: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 |
| 2.5° | 1871.6 | 1874.3 | 1877.0 | 1878.2 | 1877.9 | 1877.6 | 1877.4 | 1877.1 |
| 5° | 1861.6 | 1865.3 | 1869.0 | 1870.5 | 1869.8 | 1869.2 | 1868.5 | 1867.7 |
| 7.5° | 1840.9 | 1843.8 | 1846.7 | 1848.0 | 1847.7 | 1847.2 | 1846.8 | 1846.4 |
| 10° | 1823.4 | 1826.2 | 1828.8 | 1829.9 | 1829.2 | 1828.5 | 1827.8 | 1827.1 |
| 12.5° | 1802.3 | 1805.3 | 1808.3 | 1809.2 | 1808.3 | 1807.3 | 1806.4 | 1805.4 |
| 15° | 1761.9 | 1764.0 | 1765.9 | 1766.4 | 1765.5 | 1764.4 | 1763.4 | 1762.5 |
| 17.5° | 1715.9 | 1717.2 | 1718.4 | 1718.7 | 1718.1 | 1717.4 | 1716.7 | 1716.1 |
| 20° | 1681.7 | 1682.6 | 1683.7 | 1683.9 | 1683.2 | 1682.5 | 1681.9 | 1681.1 |
| 22.5° | 1646.0 | 1647.8 | 1649.5 | 1649.8 | 1648.7 | 1647.5 | 1646.2 | 1645.0 |
| 25° | 1587.1 | 1587.3 | 1587.7 | 1587.1 | 1585.8 | 1584.5 | 1583.2 | 1581.9 |
| 27.5° | 1520.9 | 1520.1 | 1519.3 | 1518.1 | 1516.4 | 1514.8 | 1513.1 | 1511.4 |
| 30° | 1475.3 | 1473.9 | 1472.6 | 1471.1 | 1469.4 | 1467.8 | 1466.1 | 1464.4 |
| 32.5° | 1429.0 | 1427.4 | 1425.8 | 1424.2 | 1422.5 | 1420.8 | 1419.2 | 1417.5 |
| 35° | 1355.9 | 1353.6 | 1351.2 | 1349.2 | 1347.6 | 1345.9 | 1344.2 | 1342.6 |
| 37.5° | 1279.3 | 1276.8 | 1274.2 | 1271.9 | 1269.7 | 1267.4 | 1265.3 | 1263.0 |
| 40° | 1226.0 | 1222.6 | 1219.3 | 1216.7 | 1215.1 | 1213.4 | 1211.7 | 1210.0 |
| 42.5° | 1174.3 | 1170.4 | 1166.6 | 1164.0 | 1162.9 | 1161.8 | 1160.6 | 1159.5 |
| 45° | 1094.4 | 1090.7 | 1087.0 | 1084.7 | 1083.6 | 1082.6 | 1081.7 | 1080.6 |
| 47.5° | 1017.0 | 1012.9 | 1008.7 | 1005.3 | 1002.8 | 1000.2 | 997.7 | 995.1 |
| 50° | 962.9 | 958.2 | 953.6 | 950.2 | 948.2 | 946.2 | 944.1 | 942.2 |
| 52.5° | 907.4 | 903.2 | 899.1 | 895.8 | 893.2 | 890.7 | 888.2 | 885.6 |
| 55° | 825.8 | 821.8 | 817.7 | 814.7 | 812.8 | 810.8 | 808.7 | 806.7 |
| 57.5° | 744.0 | 740.2 | 736.4 | 733.5 | 731.6 | 729.6 | 727.6 | 725.8 |
| 60° | 687.8 | 684.9 | 681.8 | 679.5 | 677.8 | 676.1 | 674.5 | 672.8 |
| 62.5° | 632.9 | 630.2 | 627.5 | 625.3 | 623.6 | 621.9 | 620.3 | 618.6 |
| 65° | 553.2 | 549.9 | 546.5 | 544.0 | 542.3 | 540.6 | 538.9 | 537.3 |
| 67.5° | 471.0 | 467.8 | 464.6 | 462.7 | 462.2 | 461.8 | 461.3 | 460.8 |
| 70° | 419.1 | 416.4 | 413.7 | 411.9 | 410.9 | 409.9 | 408.9 | 407.8 |
| 72.5° | 367.2 | 365.0 | 362.9 | 361.3 | 360.3 | 359.3 | 358.3 | 357.3 |
| 75° | 292.3 | 291.0 | 289.6 | 288.8 | 288.5 | 288.1 | 287.8 | 287.5 |
| 77.5° | 221.3 | 220.9 | 220.6 | 219.9 | 219.0 | 218.2 | 217.3 | 216.4 |
| 80° | 176.3 | 175.6 | 174.9 | 174.5 | 174.1 | 173.7 | 173.4 | 173.1 |
| 82.5° | 135.8 | 135.4 | 135.1 | 134.7 | 134.3 | 134.0 | 133.7 | 133.4 |
| 85° | 78.2 | 78.2 | 78.2 | 78.1 | 77.8 | 77.4 | 77.1 | 76.7 |
| 87.5° | 33.6 | 33.7 | 34.0 | 34.2 | 34.3 | 34.4 | 34.5 | 34.5 |
| 90° | 23.2 | 24.5 | 25.7 | 26.6 | 27.0 | 27.4 | 27.8 | 28.2 |
| 92.5° | 22.4 | 23.8 | 25.0 | 25.6 | 25.7 | 25.8 | 25.9 | 26.0 |
| 95° | 23.2 | 24.5 | 25.7 | 26.5 | 26.7 | 26.9 | 27.1 | 27.2 |
| 97.5° | 25.1 | 25.3 | 25.4 | 25.5 | 25.7 | 25.9 | 26.1 | 26.4 |
| 100° | 34.3 | 30.7 | 27.1 | 25.5 | 25.7 | 25.9 | 26.1 | 26.4 |
| 102.5° | 122.8 | 84.5 | 46.1 | 27.0 | 27.0 | 27.1 | 27.1 | 27.1 |
| 105° | 297.4 | 299.2 | 301.0 | 298.3 | 290.8 | 283.2 | 275.7 | 268.2 |
| 107.5° | 367.9 | 368.8 | 369.7 | 370.5 | 371.4 | 372.1 | 373.0 | 373.7 |
| 110° | 415.8 | 416.2 | 416.6 | 417.2 | 417.7 | 418.4 | 419.1 | 419.6 |



TEST NUMBER: P332703-830

CATALOG NUMBER: SA4XXDIP-C1195D1035U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 462.2 | 462.1 | 462.0 | 462.4 | 463.2 | 464.0 | 464.8 | 465.5 |
| 115° | 531.5 | 532.0 | 532.3 | 532.5 | 532.5 | 532.5 | 532.5 | 532.5 |
| 117.5° | 601.2 | 601.2 | 601.1 | 601.1 | 601.0 | 600.9 | 600.8 | 600.7 |
| 120° | 644.4 | 644.8 | 645.3 | 645.3 | 644.8 | 644.4 | 644.0 | 643.6 |
| 122.5° | 687.0 | 687.2 | 687.5 | 687.4 | 687.0 | 686.5 | 686.2 | 685.7 |
| 125° | 746.5 | 747.1 | 747.7 | 748.1 | 748.4 | 748.6 | 748.8 | 748.9 |
| 127.5° | 805.6 | 805.4 | 805.3 | 805.1 | 805.0 | 804.8 | 804.6 | 804.5 |
| 130° | 841.6 | 841.8 | 842.0 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 |
| 132.5° | 876.9 | 877.2 | 877.4 | 877.4 | 877.2 | 877.0 | 876.9 | 876.8 |
| 135° | 925.8 | 926.1 | 926.6 | 927.0 | 927.5 | 927.8 | 928.2 | 928.7 |
| 137.5° | 972.5 | 973.0 | 973.5 | 973.6 | 973.5 | 973.4 | 973.2 | 973.1 |
| 140° | 1001.5 | 1002.1 | 1002.7 | 1003.1 | 1003.3 | 1003.5 | 1003.7 | 1004.0 |
| 142.5° | 1028.2 | 1028.7 | 1029.2 | 1029.4 | 1029.4 | 1029.4 | 1029.5 | 1029.5 |
| 145° | 1066.5 | 1066.7 | 1066.9 | 1067.2 | 1067.6 | 1068.0 | 1068.5 | 1068.8 |
| 147.5° | 1100.0 | 1100.2 | 1100.4 | 1100.6 | 1100.8 | 1101.0 | 1101.3 | 1101.5 |
| 150° | 1121.5 | 1121.5 | 1121.5 | 1121.6 | 1121.9 | 1122.1 | 1122.3 | 1122.5 |
| 152.5° | 1140.3 | 1140.7 | 1140.9 | 1141.0 | 1140.9 | 1140.9 | 1140.7 | 1140.6 |
| 155° | 1165.5 | 1166.4 | 1167.2 | 1167.3 | 1166.8 | 1166.1 | 1165.5 | 1164.9 |
| 157.5° | 1187.3 | 1188.5 | 1189.5 | 1189.5 | 1188.5 | 1187.3 | 1186.3 | 1185.2 |
| 160° | 1201.3 | 1202.5 | 1203.7 | 1203.7 | 1202.5 | 1201.3 | 1200.0 | 1198.7 |
| 162.5° | 1212.5 | 1213.8 | 1215.0 | 1214.9 | 1213.5 | 1212.1 | 1210.7 | 1209.3 |
| 165° | 1228.4 | 1230.1 | 1231.7 | 1231.6 | 1229.7 | 1227.9 | 1226.0 | 1224.1 |
| 167.5° | 1240.0 | 1241.9 | 1243.7 | 1243.6 | 1241.5 | 1239.4 | 1237.3 | 1235.2 |
| 170° | 1247.3 | 1248.9 | 1250.6 | 1250.4 | 1248.3 | 1246.2 | 1244.1 | 1242.0 |
| 172.5° | 1251.8 | 1253.4 | 1255.1 | 1254.8 | 1252.5 | 1250.3 | 1248.0 | 1245.8 |
| 175° | 1257.1 | 1259.0 | 1260.8 | 1260.5 | 1258.0 | 1255.5 | 1253.0 | 1250.5 |
| 177.5° | 1259.1 | 1260.5 | 1261.9 | 1261.5 | 1259.5 | 1257.5 | 1255.5 | 1253.5 |
| 180° | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 | 1258.0 |

(END OF REPORT)