

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: P333007-940

Luminaire Tested: **SA4XXRDIP-C1195D1035U940-4F0-1E-UDD-F1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P333007-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C1195D1035U940-4F0-1E-UDD-F1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

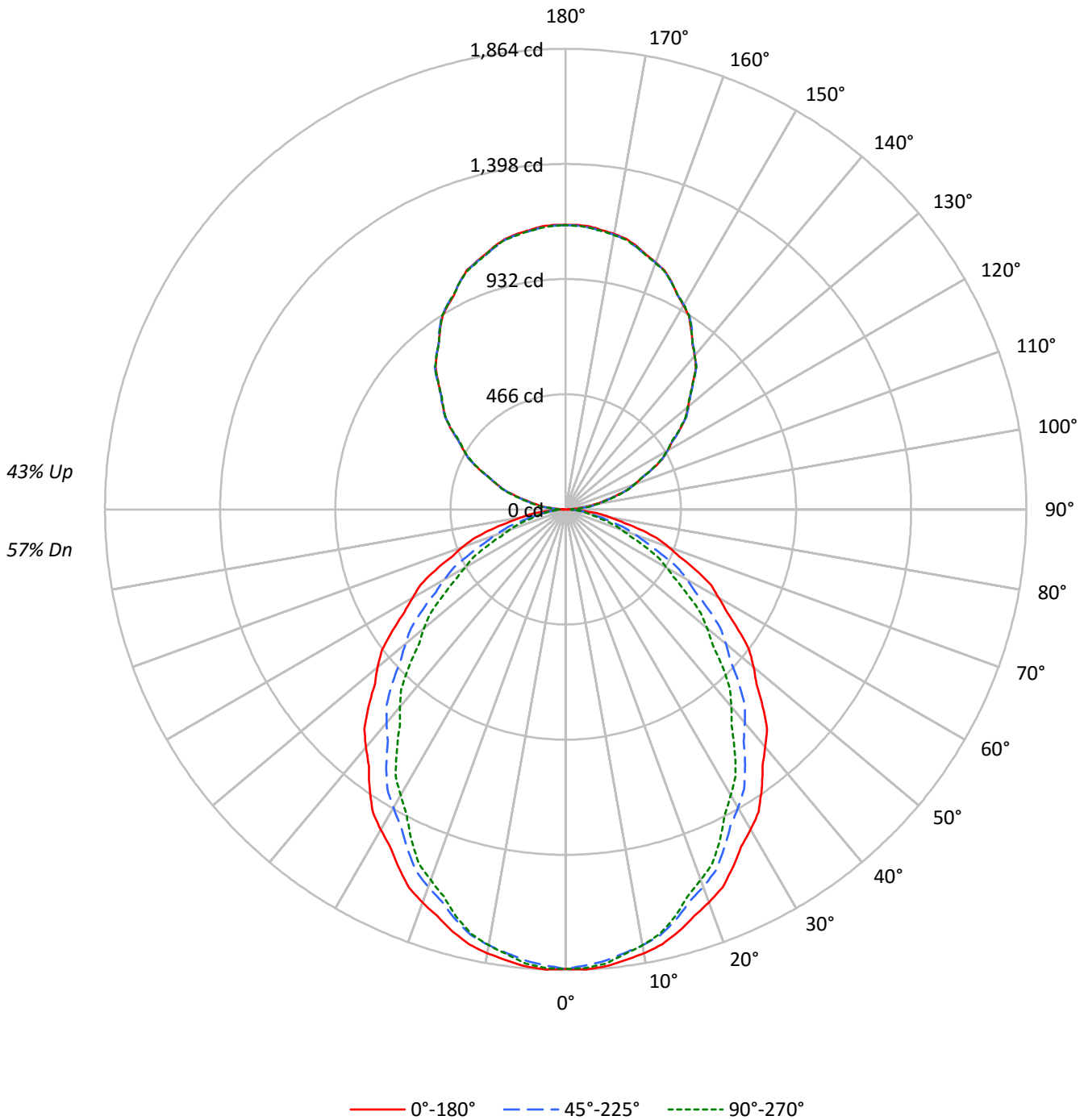
Lumens per Lamp: N/A
Luminaire Lumens: 7492.8 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (A_{in}): 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: P333007-940
CATALOG NUMBER: SA4XXRDIP-C1195D1035U940-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P333007-940

CATALOG NUMBER: SA4XXRDIP-C1195D1035U940-4F0-1E-UDD-F1

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 | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 75 | 75 | 75 | 63 | 63 | 63 | 57 |
| 1 | 100 | 95 | 92 | 88 | 93 | 89 | 86 | 83 | 77 | 75 | 73 | 66 | 64 | 63 | 56 | 55 | 54 | 49 |
| 2 | 91 | 84 | 78 | 73 | 85 | 78 | 73 | 68 | 68 | 64 | 61 | 59 | 56 | 53 | 50 | 48 | 46 | 41 |
| 3 | 83 | 74 | 67 | 61 | 77 | 69 | 63 | 58 | 60 | 55 | 51 | 52 | 48 | 45 | 44 | 42 | 39 | 35 |
| 4 | 76 | 66 | 58 | 52 | 71 | 61 | 54 | 49 | 54 | 48 | 44 | 46 | 42 | 39 | 40 | 37 | 34 | 31 |
| 5 | 70 | 59 | 51 | 45 | 65 | 55 | 48 | 42 | 48 | 42 | 38 | 42 | 37 | 34 | 36 | 33 | 30 | 27 |
| 6 | 65 | 53 | 45 | 39 | 60 | 50 | 42 | 37 | 44 | 38 | 33 | 38 | 33 | 30 | 33 | 29 | 26 | 24 |
| 7 | 60 | 48 | 40 | 34 | 56 | 45 | 38 | 33 | 40 | 34 | 30 | 35 | 30 | 27 | 30 | 26 | 24 | 21 |
| 8 | 56 | 43 | 36 | 30 | 52 | 41 | 34 | 29 | 36 | 30 | 26 | 32 | 27 | 24 | 28 | 24 | 21 | 19 |
| 9 | 52 | 40 | 32 | 27 | 48 | 38 | 31 | 26 | 33 | 28 | 24 | 29 | 25 | 21 | 26 | 22 | 19 | 17 |
| 10 | 49 | 37 | 29 | 24 | 45 | 35 | 28 | 23 | 31 | 25 | 21 | 27 | 23 | 19 | 24 | 20 | 18 | 16 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15012 | 15012 | 15012 |
| 5° | 15046 | 14862 | 14955 |
| 10° | 14952 | 14684 | 14684 |
| 15° | 14780 | 14375 | 14269 |
| 20° | 14545 | 13970 | 13713 |
| 25° | 14243 | 13495 | 13153 |
| 30° | 13951 | 12995 | 12450 |
| 35° | 13626 | 12476 | 11745 |
| 40° | 13235 | 11884 | 10984 |
| 45° | 12875 | 11298 | 10209 |
| 50° | 12465 | 10623 | 9388 |
| 55° | 12024 | 9920 | 8497 |
| 60° | 11541 | 9150 | 7585 |
| 65° | 11096 | 8187 | 6692 |
| 70° | 10452 | 7124 | 5681 |
| 75° | 9638 | 5908 | 4619 |
| 80° | 8405 | 4500 | 4235 |
| 85° | 7123 | 4085 | 3825 |



TEST NUMBER: P333007-940

CATALOG NUMBER: SA4XXRDIP-C1195D1035U940-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 174.7 | 2.3 |
| 10°-20° | 487.1 | 6.5 |
| 20°-30° | 703.4 | 9.4 |
| 30°-40° | 797.3 | 10.6 |
| 40°-50° | 770.0 | 10.3 |
| 50°-60° | 640.3 | 8.5 |
| 60°-70° | 442.1 | 5.9 |
| 70°-80° | 224.1 | 3.0 |
| 80°-90° | 60.9 | 0.8 |
| 90°-100° | 75.9 | 1.0 |
| 100°-110° | 224.9 | 3.0 |
| 110°-120° | 381.7 | 5.1 |
| 120°-130° | 503.2 | 6.7 |
| 130°-140° | 565.2 | 7.5 |
| 140°-150° | 555.4 | 7.4 |
| 150°-160° | 467.1 | 6.2 |
| 160°-170° | 310.8 | 4.1 |
| 170°-180° | 108.8 | 1.5 |
| 0°-30° | 1365.2 | 18.2 |
| 0°-40° | 2162.6 | 28.9 |
| 0°-60° | 3572.8 | 47.7 |
| 0°-90° | 4299.9 | 57.4 |
| 90°-120° | 682.4 | 9.1 |
| 90°-150° | 2306.2 | 30.8 |
| 90°-180° | 3193.0 | 42.6 |
| 0°-180° | 7492.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1860 | 1860 | 1860 | 1860 | 1860 | |
| 5° | 1857 | 1850 | 1834 | 1847 | 1845 | 176 |
| 15° | 1768 | 1754 | 1720 | 1717 | 1707 | 498 |
| 25° | 1599 | 1572 | 1515 | 1491 | 1477 | 736 |
| 35° | 1383 | 1336 | 1266 | 1219 | 1192 | 864 |
| 45° | 1128 | 1073 | 990 | 922 | 894 | 869 |
| 55° | 854 | 795 | 705 | 633 | 604 | 764 |
| 65° | 581 | 518 | 429 | 370 | 350 | 573 |
| 75° | 309 | 256 | 189 | 158 | 148 | 326 |
| 85° | 77 | 50 | 44 | 41 | 41 | 87 |
| 90° | 3 | 12 | 20 | 25 | 27 | 7 |
| 95° | 53 | 61 | 68 | 70 | 70 | 59 |
| 105° | 207 | 208 | 212 | 214 | 217 | 220 |
| 115° | 388 | 388 | 386 | 385 | 384 | 383 |
| 125° | 565 | 565 | 564 | 562 | 561 | 504 |
| 135° | 729 | 734 | 734 | 732 | 730 | 564 |
| 145° | 886 | 889 | 890 | 889 | 886 | 554 |
| 155° | 1015 | 1015 | 1014 | 1017 | 1014 | 467 |
| 165° | 1105 | 1102 | 1100 | 1105 | 1102 | 311 |
| 175° | 1149 | 1145 | 1144 | 1149 | 1144 | 109 |
| 180° | 1151 | 1151 | 1151 | 1151 | 1151 | |



TEST NUMBER: P333007-940

CATALOG NUMBER: SA4XXRDIP-C1195D1035U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 |
| 2.5° | 1864.1 | 1863.1 | 1862.2 | 1861.1 | 1860.1 | 1858.2 | 1855.5 | 1852.6 | 1849.9 | 1847.1 | 1849.9 |
| 5° | 1856.7 | 1855.5 | 1854.2 | 1853.0 | 1851.7 | 1849.1 | 1845.4 | 1841.6 | 1837.8 | 1834.0 | 1837.1 |
| 7.5° | 1840.0 | 1838.6 | 1837.3 | 1835.9 | 1834.6 | 1831.5 | 1826.6 | 1821.7 | 1816.7 | 1811.8 | 1813.8 |
| 10° | 1824.0 | 1822.4 | 1820.9 | 1819.3 | 1817.7 | 1814.0 | 1808.4 | 1802.7 | 1797.0 | 1791.3 | 1792.5 |
| 12.5° | 1803.5 | 1801.7 | 1799.8 | 1798.0 | 1796.2 | 1791.9 | 1785.2 | 1778.5 | 1771.7 | 1765.1 | 1765.9 |
| 15° | 1768.4 | 1765.6 | 1762.8 | 1760.0 | 1757.1 | 1751.7 | 1743.8 | 1735.9 | 1728.0 | 1720.0 | 1719.4 |
| 17.5° | 1726.1 | 1721.9 | 1717.8 | 1713.7 | 1709.6 | 1702.8 | 1693.3 | 1683.8 | 1674.3 | 1664.8 | 1663.0 |
| 20° | 1693.0 | 1688.9 | 1684.8 | 1680.7 | 1676.6 | 1669.1 | 1658.4 | 1647.6 | 1636.8 | 1626.1 | 1623.5 |
| 22.5° | 1656.5 | 1652.0 | 1647.3 | 1642.7 | 1638.1 | 1630.0 | 1618.5 | 1607.0 | 1595.4 | 1583.9 | 1580.1 |
| 25° | 1599.0 | 1593.3 | 1587.6 | 1582.0 | 1576.3 | 1566.9 | 1554.0 | 1541.0 | 1528.0 | 1515.0 | 1509.7 |
| 27.5° | 1538.6 | 1531.5 | 1524.4 | 1517.2 | 1510.0 | 1499.6 | 1485.7 | 1471.9 | 1457.9 | 1444.1 | 1437.4 |
| 30° | 1496.6 | 1488.6 | 1480.7 | 1472.7 | 1464.9 | 1453.5 | 1438.6 | 1423.7 | 1408.9 | 1394.0 | 1386.1 |
| 32.5° | 1452.1 | 1443.1 | 1434.2 | 1425.3 | 1416.4 | 1404.3 | 1388.8 | 1373.5 | 1358.1 | 1342.7 | 1333.6 |
| 35° | 1382.6 | 1372.4 | 1362.4 | 1352.2 | 1342.1 | 1329.1 | 1313.3 | 1297.5 | 1281.7 | 1265.9 | 1255.1 |
| 37.5° | 1308.3 | 1297.8 | 1287.4 | 1276.9 | 1266.5 | 1252.5 | 1235.0 | 1217.5 | 1200.0 | 1182.4 | 1170.4 |
| 40° | 1255.9 | 1245.5 | 1235.0 | 1224.6 | 1214.1 | 1199.9 | 1181.9 | 1163.8 | 1145.8 | 1127.7 | 1114.5 |
| 42.5° | 1205.8 | 1194.8 | 1183.8 | 1172.9 | 1162.0 | 1147.1 | 1128.3 | 1109.5 | 1090.7 | 1071.9 | 1058.4 |
| 45° | 1127.7 | 1116.0 | 1104.3 | 1092.6 | 1080.9 | 1065.5 | 1046.6 | 1027.6 | 1008.6 | 989.6 | 974.1 |
| 47.5° | 1047.1 | 1035.0 | 1023.0 | 1010.8 | 998.8 | 982.8 | 963.1 | 943.3 | 923.6 | 903.9 | 887.8 |
| 50° | 992.5 | 980.1 | 967.8 | 955.5 | 943.1 | 926.8 | 906.5 | 886.3 | 866.0 | 845.8 | 830.0 |
| 52.5° | 936.7 | 924.5 | 912.5 | 900.4 | 888.3 | 871.8 | 851.1 | 830.4 | 809.6 | 788.8 | 772.8 |
| 55° | 854.3 | 841.7 | 829.0 | 816.4 | 803.7 | 787.1 | 766.5 | 746.0 | 725.4 | 704.8 | 688.4 |
| 57.5° | 772.8 | 759.7 | 746.5 | 733.4 | 720.2 | 703.6 | 683.3 | 663.0 | 642.7 | 622.5 | 605.8 |
| 60° | 714.8 | 702.1 | 689.5 | 676.8 | 664.1 | 647.7 | 627.5 | 607.3 | 586.9 | 566.7 | 550.3 |
| 62.5° | 662.4 | 649.3 | 636.1 | 622.9 | 609.8 | 592.8 | 572.0 | 551.3 | 530.5 | 509.8 | 494.5 |
| 65° | 580.9 | 567.3 | 553.8 | 540.1 | 526.6 | 509.6 | 489.4 | 469.1 | 448.9 | 428.6 | 415.0 |
| 67.5° | 496.3 | 483.3 | 470.3 | 457.3 | 444.3 | 428.3 | 409.5 | 390.7 | 371.9 | 353.1 | 341.4 |
| 70° | 442.8 | 429.5 | 416.3 | 403.0 | 389.7 | 374.0 | 356.0 | 338.0 | 319.9 | 301.8 | 291.4 |
| 72.5° | 385.8 | 373.9 | 361.9 | 349.8 | 337.8 | 323.2 | 306.2 | 289.2 | 272.2 | 255.1 | 246.2 |
| 75° | 309.0 | 297.3 | 285.5 | 273.8 | 262.2 | 248.9 | 234.0 | 219.1 | 204.3 | 189.4 | 182.1 |
| 77.5° | 231.0 | 221.1 | 211.1 | 201.2 | 191.2 | 180.2 | 168.2 | 156.2 | 144.2 | 132.2 | 127.9 |
| 80° | 180.8 | 171.7 | 162.5 | 153.3 | 144.1 | 134.8 | 125.3 | 115.8 | 106.3 | 96.8 | 95.9 |
| 82.5° | 137.6 | 129.1 | 120.7 | 112.3 | 103.9 | 96.9 | 91.5 | 86.1 | 80.6 | 75.2 | 74.5 |
| 85° | 76.9 | 70.5 | 64.2 | 57.9 | 51.5 | 48.0 | 47.0 | 46.0 | 45.1 | 44.1 | 43.5 |
| 87.5° | 26.8 | 25.1 | 23.5 | 21.9 | 20.3 | 19.6 | 19.7 | 19.7 | 19.8 | 19.9 | 19.9 |
| 90° | 2.7 | 4.8 | 7.0 | 9.2 | 11.4 | 13.3 | 14.8 | 16.4 | 18.0 | 19.6 | 20.8 |
| 92.5° | 19.1 | 21.6 | 24.0 | 26.5 | 29.0 | 30.9 | 31.9 | 33.0 | 34.2 | 35.2 | 35.9 |
| 95° | 53.4 | 55.2 | 57.0 | 58.8 | 60.5 | 62.1 | 63.5 | 64.9 | 66.3 | 67.7 | 68.2 |
| 97.5° | 93.3 | 94.7 | 96.1 | 97.6 | 99.0 | 100.5 | 102.1 | 103.7 | 105.4 | 107.0 | 107.7 |
| 100° | 124.6 | 125.4 | 126.2 | 127.0 | 127.8 | 129.0 | 130.8 | 132.6 | 134.4 | 136.2 | 136.6 |
| 102.5° | 157.4 | 157.7 | 158.0 | 158.3 | 158.6 | 159.6 | 161.2 | 162.8 | 164.4 | 166.1 | 166.7 |
| 105° | 207.4 | 207.6 | 207.8 | 207.9 | 208.2 | 208.7 | 209.5 | 210.3 | 211.1 | 211.9 | 212.4 |
| 107.5° | 259.9 | 260.1 | 260.4 | 260.6 | 260.8 | 261.0 | 261.2 | 261.3 | 261.4 | 261.5 | 262.1 |
| 110° | 295.5 | 295.9 | 296.3 | 296.7 | 297.1 | 297.2 | 296.9 | 296.8 | 296.6 | 296.4 | 296.0 |



TEST NUMBER: P333007-940

CATALOG NUMBER: SA4XXRDIP-C1195D1035U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 332.5 | 332.6 | 332.7 | 332.8 | 332.9 | 332.7 | 332.3 | 332.0 | 331.6 | 331.3 | 331.2 |
| 115° | 388.1 | 388.1 | 388.1 | 388.1 | 388.1 | 387.9 | 387.4 | 387.1 | 386.6 | 386.3 | 386.1 |
| 117.5° | 440.4 | 440.6 | 440.7 | 440.9 | 441.0 | 441.0 | 440.7 | 440.4 | 440.1 | 439.9 | 439.2 |
| 120° | 475.3 | 476.1 | 476.9 | 477.7 | 478.5 | 478.6 | 478.0 | 477.3 | 476.8 | 476.2 | 475.2 |
| 122.5° | 511.6 | 511.9 | 512.2 | 512.6 | 512.8 | 512.9 | 512.6 | 512.3 | 512.0 | 511.8 | 511.1 |
| 125° | 565.2 | 565.2 | 565.2 | 565.2 | 565.2 | 565.1 | 564.9 | 564.7 | 564.5 | 564.3 | 563.9 |
| 127.5° | 613.8 | 614.4 | 614.9 | 615.5 | 616.2 | 616.3 | 616.0 | 615.6 | 615.4 | 615.0 | 614.7 |
| 130° | 647.9 | 648.5 | 649.2 | 649.7 | 650.3 | 650.6 | 650.6 | 650.6 | 650.6 | 650.6 | 650.2 |
| 132.5° | 682.9 | 683.3 | 683.7 | 684.1 | 684.6 | 684.7 | 684.6 | 684.4 | 684.2 | 684.1 | 683.7 |
| 135° | 729.0 | 730.1 | 731.3 | 732.5 | 733.7 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 733.9 |
| 137.5° | 779.2 | 779.7 | 780.2 | 780.8 | 781.4 | 781.8 | 782.1 | 782.5 | 782.7 | 783.1 | 782.6 |
| 140° | 812.6 | 813.0 | 813.4 | 813.8 | 814.2 | 814.4 | 814.4 | 814.4 | 814.4 | 814.4 | 814.2 |
| 142.5° | 843.2 | 843.6 | 844.0 | 844.5 | 844.8 | 844.9 | 844.8 | 844.6 | 844.5 | 844.3 | 844.3 |
| 145° | 885.6 | 886.4 | 887.2 | 888.0 | 888.8 | 889.2 | 889.5 | 889.7 | 889.8 | 890.0 | 889.8 |
| 147.5° | 927.6 | 928.5 | 929.5 | 930.5 | 931.4 | 931.8 | 931.7 | 931.5 | 931.3 | 931.2 | 931.0 |
| 150° | 953.2 | 954.0 | 954.8 | 955.6 | 956.4 | 956.8 | 956.8 | 956.8 | 956.8 | 956.8 | 956.8 |
| 152.5° | 977.5 | 977.9 | 978.4 | 978.9 | 979.4 | 979.6 | 979.8 | 980.0 | 980.2 | 980.3 | 980.8 |
| 155° | 1014.7 | 1014.7 | 1014.7 | 1014.7 | 1014.7 | 1014.6 | 1014.3 | 1014.1 | 1014.0 | 1013.8 | 1014.6 |
| 157.5° | 1046.0 | 1045.6 | 1045.3 | 1044.9 | 1044.6 | 1044.4 | 1044.3 | 1044.3 | 1044.3 | 1044.2 | 1044.8 |
| 160° | 1064.5 | 1064.3 | 1064.1 | 1063.9 | 1063.7 | 1063.5 | 1063.3 | 1063.1 | 1062.9 | 1062.7 | 1063.3 |
| 162.5° | 1081.6 | 1081.1 | 1080.6 | 1080.0 | 1079.5 | 1079.1 | 1079.0 | 1078.8 | 1078.6 | 1078.3 | 1079.4 |
| 165° | 1104.6 | 1103.9 | 1103.4 | 1102.8 | 1102.2 | 1101.7 | 1101.3 | 1100.9 | 1100.5 | 1100.1 | 1101.3 |
| 167.5° | 1122.2 | 1121.3 | 1120.5 | 1119.7 | 1118.8 | 1118.5 | 1118.5 | 1118.6 | 1118.6 | 1118.7 | 1119.8 |
| 170° | 1132.1 | 1131.1 | 1130.2 | 1129.2 | 1128.2 | 1127.7 | 1128.0 | 1128.2 | 1128.4 | 1128.5 | 1129.8 |
| 172.5° | 1139.2 | 1138.4 | 1137.6 | 1136.8 | 1136.0 | 1135.5 | 1135.6 | 1135.6 | 1135.7 | 1135.7 | 1137.0 |
| 175° | 1149.1 | 1148.1 | 1147.1 | 1146.1 | 1145.1 | 1144.5 | 1144.3 | 1144.1 | 1143.9 | 1143.7 | 1145.1 |
| 177.5° | 1152.3 | 1151.5 | 1150.7 | 1149.9 | 1149.1 | 1148.7 | 1148.7 | 1148.7 | 1148.7 | 1148.7 | 1149.8 |
| 180° | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 |



TEST NUMBER: P333007-940

CATALOG NUMBER: SA4XXRDIP-C1195D1035U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 |
| 2.5° | 1852.6 | 1855.5 | 1858.2 | 1859.5 | 1859.2 | 1858.9 | 1858.7 | 1858.5 |
| 5° | 1840.3 | 1843.4 | 1846.6 | 1847.9 | 1847.3 | 1846.6 | 1846.0 | 1845.4 |
| 7.5° | 1815.8 | 1817.8 | 1819.9 | 1820.3 | 1819.4 | 1818.4 | 1817.3 | 1816.3 |
| 10° | 1793.8 | 1795.0 | 1796.4 | 1796.4 | 1795.0 | 1793.8 | 1792.5 | 1791.3 |
| 12.5° | 1766.6 | 1767.4 | 1768.1 | 1767.5 | 1765.9 | 1764.1 | 1762.3 | 1760.5 |
| 15° | 1718.8 | 1718.1 | 1717.5 | 1716.1 | 1713.9 | 1711.6 | 1709.5 | 1707.3 |
| 17.5° | 1661.3 | 1659.5 | 1657.7 | 1655.2 | 1651.8 | 1648.4 | 1645.1 | 1641.7 |
| 20° | 1621.0 | 1618.5 | 1616.0 | 1612.7 | 1608.6 | 1604.5 | 1600.3 | 1596.2 |
| 22.5° | 1576.4 | 1572.5 | 1568.8 | 1565.2 | 1561.8 | 1558.4 | 1555.1 | 1551.8 |
| 25° | 1504.2 | 1498.9 | 1493.5 | 1489.2 | 1486.0 | 1482.9 | 1479.7 | 1476.6 |
| 27.5° | 1430.8 | 1424.2 | 1417.6 | 1411.9 | 1407.4 | 1402.8 | 1398.3 | 1393.7 |
| 30° | 1378.1 | 1370.3 | 1362.4 | 1355.8 | 1350.8 | 1345.8 | 1340.7 | 1335.6 |
| 32.5° | 1324.4 | 1315.2 | 1306.0 | 1299.0 | 1294.2 | 1289.4 | 1284.6 | 1279.8 |
| 35° | 1244.3 | 1233.6 | 1222.8 | 1214.6 | 1208.9 | 1203.2 | 1197.5 | 1191.8 |
| 37.5° | 1158.3 | 1146.3 | 1134.3 | 1125.4 | 1119.7 | 1114.0 | 1108.4 | 1102.7 |
| 40° | 1101.2 | 1087.9 | 1074.6 | 1065.1 | 1059.4 | 1053.6 | 1048.0 | 1042.3 |
| 42.5° | 1044.8 | 1031.3 | 1017.7 | 1008.0 | 1002.0 | 996.1 | 990.2 | 984.2 |
| 45° | 958.6 | 943.1 | 927.6 | 916.9 | 911.3 | 905.6 | 899.9 | 894.2 |
| 47.5° | 871.7 | 855.7 | 839.6 | 828.4 | 822.2 | 815.9 | 809.6 | 803.3 |
| 50° | 814.1 | 798.3 | 782.5 | 771.6 | 765.6 | 759.6 | 753.6 | 747.5 |
| 52.5° | 756.7 | 740.7 | 724.5 | 713.4 | 707.1 | 700.9 | 694.6 | 688.3 |
| 55° | 671.9 | 655.5 | 639.0 | 627.8 | 621.8 | 615.7 | 609.8 | 603.7 |
| 57.5° | 589.2 | 572.4 | 555.7 | 545.1 | 540.6 | 535.9 | 531.4 | 526.8 |
| 60° | 533.8 | 517.4 | 500.9 | 490.2 | 485.1 | 480.0 | 474.9 | 469.8 |
| 62.5° | 479.4 | 464.2 | 449.0 | 439.3 | 435.3 | 431.3 | 427.2 | 423.2 |
| 65° | 401.4 | 387.8 | 374.2 | 365.4 | 361.7 | 357.8 | 354.1 | 350.3 |
| 67.5° | 329.8 | 318.0 | 306.3 | 298.4 | 294.2 | 290.0 | 285.8 | 281.6 |
| 70° | 281.0 | 270.5 | 260.1 | 253.3 | 250.1 | 247.0 | 243.8 | 240.7 |
| 72.5° | 237.3 | 228.4 | 219.5 | 213.6 | 210.6 | 207.8 | 204.8 | 201.9 |
| 75° | 174.9 | 167.6 | 160.2 | 155.7 | 153.8 | 151.9 | 150.0 | 148.1 |
| 77.5° | 123.7 | 119.4 | 115.2 | 112.8 | 112.2 | 111.6 | 111.1 | 110.5 |
| 80° | 95.0 | 94.0 | 93.0 | 92.4 | 92.1 | 91.8 | 91.5 | 91.1 |
| 82.5° | 73.8 | 73.1 | 72.4 | 71.9 | 71.6 | 71.2 | 71.0 | 70.6 |
| 85° | 42.9 | 42.3 | 41.6 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 |
| 87.5° | 19.8 | 19.8 | 19.8 | 20.0 | 20.3 | 20.6 | 21.0 | 21.3 |
| 90° | 21.9 | 23.2 | 24.3 | 25.1 | 25.5 | 25.9 | 26.3 | 26.7 |
| 92.5° | 36.6 | 37.4 | 38.1 | 38.6 | 38.8 | 39.1 | 39.3 | 39.5 |
| 95° | 68.8 | 69.5 | 70.0 | 70.4 | 70.4 | 70.4 | 70.4 | 70.4 |
| 97.5° | 108.4 | 109.1 | 109.9 | 110.2 | 110.2 | 110.2 | 110.2 | 110.2 |
| 100° | 137.0 | 137.3 | 137.8 | 137.9 | 137.9 | 137.9 | 137.9 | 137.9 |
| 102.5° | 167.2 | 167.7 | 168.3 | 168.6 | 168.8 | 169.0 | 169.2 | 169.2 |
| 105° | 213.0 | 213.7 | 214.2 | 214.8 | 215.3 | 216.0 | 216.6 | 217.1 |
| 107.5° | 262.6 | 263.1 | 263.7 | 263.9 | 263.9 | 263.9 | 263.9 | 263.8 |
| 110° | 295.6 | 295.2 | 294.8 | 294.9 | 295.5 | 296.0 | 296.7 | 297.3 |



TEST NUMBER: P333007-940

CATALOG NUMBER: SA4XXRDIP-C1195D1035U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 331.1 | 331.0 | 331.0 | 331.0 | 331.1 | 331.2 | 331.4 | 331.4 |
| 115° | 385.8 | 385.7 | 385.5 | 385.3 | 385.1 | 384.9 | 384.7 | 384.5 |
| 117.5° | 438.5 | 437.8 | 437.2 | 436.7 | 436.2 | 435.9 | 435.4 | 435.1 |
| 120° | 474.2 | 473.2 | 472.3 | 471.9 | 472.3 | 472.7 | 473.1 | 473.5 |
| 122.5° | 510.4 | 509.8 | 509.1 | 508.4 | 507.7 | 506.9 | 506.2 | 505.5 |
| 125° | 563.5 | 563.1 | 562.7 | 562.3 | 562.0 | 561.5 | 561.2 | 560.7 |
| 127.5° | 614.2 | 613.9 | 613.4 | 613.1 | 612.8 | 612.4 | 612.2 | 611.8 |
| 130° | 649.9 | 649.4 | 649.1 | 648.5 | 647.6 | 646.8 | 646.0 | 645.2 |
| 132.5° | 683.3 | 682.9 | 682.5 | 682.2 | 681.8 | 681.5 | 681.2 | 680.9 |
| 135° | 733.5 | 733.1 | 732.7 | 732.2 | 731.6 | 731.0 | 730.4 | 729.9 |
| 137.5° | 782.0 | 781.5 | 781.0 | 780.8 | 781.0 | 781.0 | 781.1 | 781.3 |
| 140° | 814.0 | 813.8 | 813.6 | 813.4 | 813.2 | 813.0 | 812.8 | 812.6 |
| 142.5° | 844.2 | 844.2 | 844.2 | 844.1 | 844.1 | 844.0 | 844.0 | 843.9 |
| 145° | 889.7 | 889.5 | 889.2 | 888.9 | 888.2 | 887.7 | 887.1 | 886.4 |
| 147.5° | 930.9 | 930.7 | 930.5 | 930.3 | 930.1 | 930.0 | 929.8 | 929.6 |
| 150° | 956.8 | 956.8 | 956.8 | 956.7 | 956.5 | 956.3 | 956.1 | 955.9 |
| 152.5° | 981.2 | 981.7 | 982.2 | 982.2 | 981.7 | 981.1 | 980.6 | 980.1 |
| 155° | 1015.4 | 1016.1 | 1016.9 | 1016.9 | 1016.1 | 1015.4 | 1014.6 | 1013.8 |
| 157.5° | 1045.4 | 1046.0 | 1046.6 | 1046.5 | 1045.9 | 1045.2 | 1044.6 | 1043.8 |
| 160° | 1063.9 | 1064.5 | 1065.1 | 1064.9 | 1063.9 | 1062.9 | 1061.9 | 1061.0 |
| 162.5° | 1080.5 | 1081.6 | 1082.6 | 1082.7 | 1081.7 | 1080.8 | 1079.8 | 1078.7 |
| 165° | 1102.5 | 1103.7 | 1104.8 | 1105.0 | 1104.3 | 1103.5 | 1102.7 | 1101.9 |
| 167.5° | 1121.0 | 1122.2 | 1123.4 | 1123.4 | 1122.1 | 1120.9 | 1119.6 | 1118.5 |
| 170° | 1131.0 | 1132.1 | 1133.4 | 1133.2 | 1131.8 | 1130.4 | 1129.1 | 1127.7 |
| 172.5° | 1138.4 | 1139.7 | 1141.1 | 1141.0 | 1139.7 | 1138.3 | 1136.9 | 1135.5 |
| 175° | 1146.5 | 1147.9 | 1149.2 | 1149.2 | 1147.9 | 1146.5 | 1145.1 | 1143.7 |
| 177.5° | 1150.9 | 1152.0 | 1153.2 | 1153.1 | 1151.8 | 1150.5 | 1149.2 | 1148.0 |
| 180° | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 |

(END OF REPORT)