

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: P333007-930

Luminaire Tested: **SA4XXRDIP-C1195D1035U930-4F0-1E-UDD-F1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P333007-930
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-C1195D1035U930-4F0-1E-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

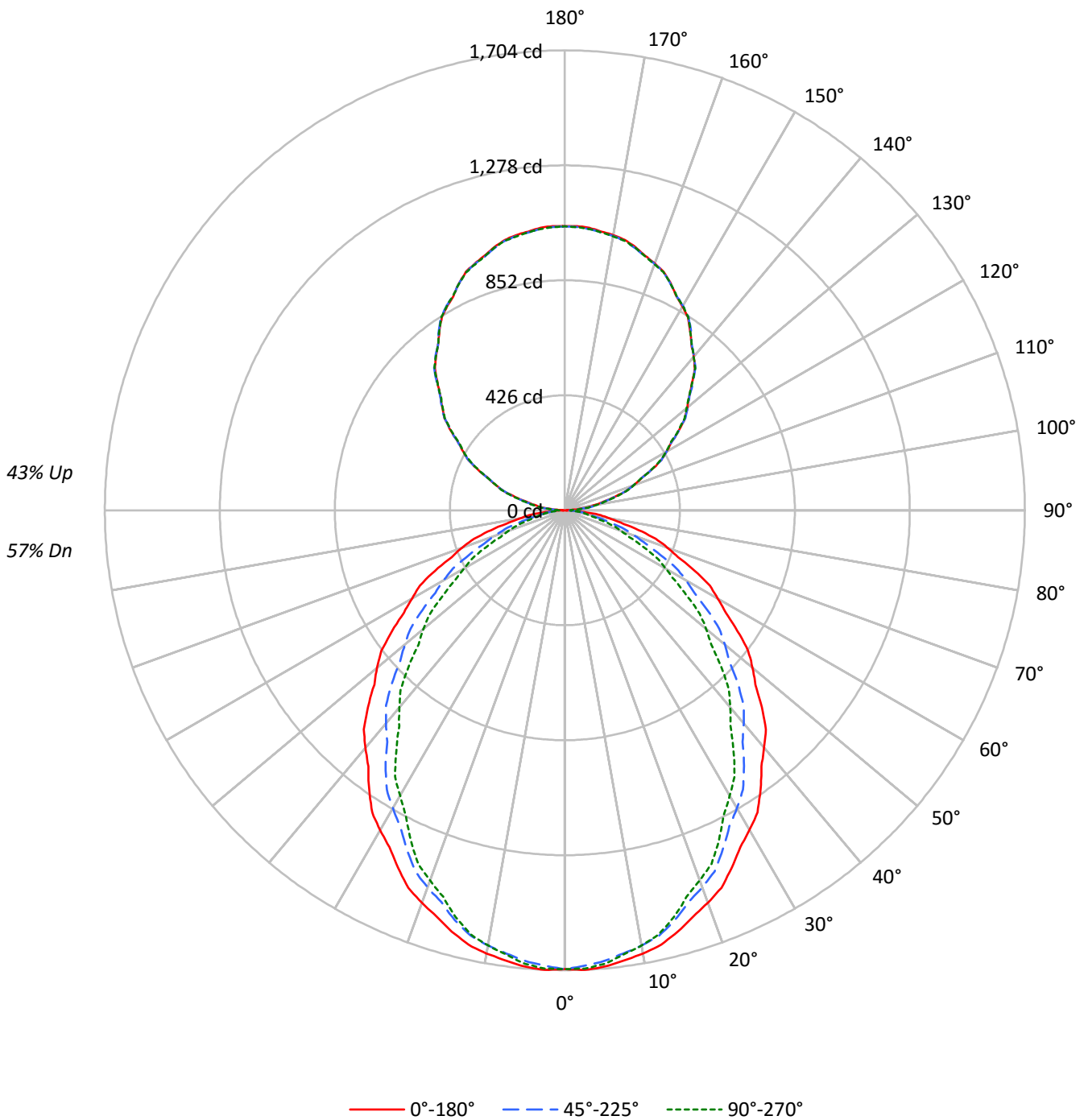
Lumens per Lamp: N/A
Luminaire Lumens: 6850.7 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (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: P333007-930
CATALOG NUMBER: SA4XXRDIP-C1195D1035U930-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P333007-930

CATALOG NUMBER: SA4XXRDIP-C1195D1035U930-4F0-1E-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° | 13726 | 13726 | 13726 |
| 5° | 13757 | 13588 | 13674 |
| 10° | 13671 | 13426 | 13426 |
| 15° | 13514 | 13143 | 13046 |
| 20° | 13298 | 12773 | 12538 |
| 25° | 13023 | 12339 | 12026 |
| 30° | 12755 | 11882 | 11384 |
| 35° | 12458 | 11406 | 10738 |
| 40° | 12101 | 10866 | 10043 |
| 45° | 11772 | 10330 | 9334 |
| 50° | 11396 | 9712 | 8584 |
| 55° | 10994 | 9070 | 7769 |
| 60° | 10551 | 8365 | 6936 |
| 65° | 10147 | 7484 | 6117 |
| 70° | 9557 | 6515 | 5193 |
| 75° | 8812 | 5402 | 4223 |
| 80° | 7685 | 4114 | 3873 |
| 85° | 6512 | 3742 | 3492 |



TEST NUMBER: P333007-930

CATALOG NUMBER: SA4XXRDIP-C1195D1035U930-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 159.7 | 2.3 |
| 10°-20° | 445.4 | 6.5 |
| 20°-30° | 643.1 | 9.4 |
| 30°-40° | 729.0 | 10.6 |
| 40°-50° | 704.0 | 10.3 |
| 50°-60° | 585.4 | 8.5 |
| 60°-70° | 404.2 | 5.9 |
| 70°-80° | 204.9 | 3.0 |
| 80°-90° | 55.7 | 0.8 |
| 90°-100° | 69.4 | 1.0 |
| 100°-110° | 205.6 | 3.0 |
| 110°-120° | 348.9 | 5.1 |
| 120°-130° | 460.1 | 6.7 |
| 130°-140° | 516.7 | 7.5 |
| 140°-150° | 507.8 | 7.4 |
| 150°-160° | 427.1 | 6.2 |
| 160°-170° | 284.1 | 4.1 |
| 170°-180° | 99.5 | 1.5 |
| 0°-30° | 1248.2 | 18.2 |
| 0°-40° | 1977.3 | 28.9 |
| 0°-60° | 3266.6 | 47.7 |
| 0°-90° | 3931.4 | 57.4 |
| 90°-120° | 623.9 | 9.1 |
| 90°-150° | 2108.6 | 30.8 |
| 90°-180° | 2919.0 | 42.6 |
| 0°-180° | 6850.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1700 | 1700 | 1700 | 1700 | 1700 | |
| 5° | 1698 | 1692 | 1677 | 1689 | 1687 | 161 |
| 15° | 1617 | 1604 | 1573 | 1570 | 1561 | 455 |
| 25° | 1462 | 1437 | 1385 | 1364 | 1350 | 673 |
| 35° | 1264 | 1221 | 1157 | 1114 | 1090 | 790 |
| 45° | 1031 | 981 | 905 | 843 | 818 | 795 |
| 55° | 781 | 727 | 644 | 579 | 552 | 698 |
| 65° | 531 | 474 | 392 | 338 | 320 | 524 |
| 75° | 282 | 234 | 173 | 144 | 135 | 298 |
| 85° | 70 | 46 | 40 | 38 | 38 | 79 |
| 90° | 2 | 11 | 18 | 23 | 24 | 6 |
| 95° | 49 | 56 | 62 | 64 | 64 | 54 |
| 105° | 190 | 191 | 194 | 196 | 198 | 201 |
| 115° | 355 | 355 | 353 | 352 | 352 | 350 |
| 125° | 517 | 517 | 516 | 514 | 513 | 460 |
| 135° | 666 | 671 | 671 | 670 | 667 | 515 |
| 145° | 810 | 813 | 814 | 813 | 810 | 507 |
| 155° | 928 | 928 | 927 | 930 | 927 | 427 |
| 165° | 1010 | 1008 | 1006 | 1010 | 1008 | 285 |
| 175° | 1051 | 1047 | 1046 | 1051 | 1046 | 100 |
| 180° | 1052 | 1052 | 1052 | 1052 | 1052 | |



TEST NUMBER: P333007-930

CATALOG NUMBER: SA4XXRDIP-C1195D1035U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1700.2 | 1700.2 | 1700.2 | 1700.2 | 1700.2 | 1700.2 | 1700.2 | 1700.2 | 1700.2 | 1700.2 | 1700.2 |
| 2.5° | 1704.4 | 1703.5 | 1702.6 | 1701.6 | 1700.7 | 1699.0 | 1696.5 | 1693.9 | 1691.3 | 1688.8 | 1691.3 |
| 5° | 1697.6 | 1696.5 | 1695.3 | 1694.2 | 1693.1 | 1690.7 | 1687.3 | 1683.8 | 1680.3 | 1676.8 | 1679.7 |
| 7.5° | 1682.3 | 1681.1 | 1679.8 | 1678.6 | 1677.4 | 1674.5 | 1670.1 | 1665.6 | 1661.0 | 1656.5 | 1658.4 |
| 10° | 1667.7 | 1666.2 | 1664.8 | 1663.4 | 1661.9 | 1658.6 | 1653.4 | 1648.2 | 1643.0 | 1637.8 | 1638.9 |
| 12.5° | 1648.9 | 1647.3 | 1645.6 | 1643.9 | 1642.3 | 1638.3 | 1632.2 | 1626.1 | 1619.9 | 1613.8 | 1614.5 |
| 15° | 1616.9 | 1614.3 | 1611.8 | 1609.2 | 1606.5 | 1601.6 | 1594.4 | 1587.1 | 1579.9 | 1572.6 | 1572.1 |
| 17.5° | 1578.2 | 1574.3 | 1570.6 | 1566.8 | 1563.1 | 1556.9 | 1548.2 | 1539.5 | 1530.8 | 1522.2 | 1520.5 |
| 20° | 1547.9 | 1544.2 | 1540.4 | 1536.7 | 1532.9 | 1526.1 | 1516.3 | 1506.4 | 1496.6 | 1486.8 | 1484.4 |
| 22.5° | 1514.6 | 1510.4 | 1506.2 | 1501.9 | 1497.7 | 1490.4 | 1479.8 | 1469.3 | 1458.7 | 1448.2 | 1444.7 |
| 25° | 1462.0 | 1456.8 | 1451.6 | 1446.4 | 1441.2 | 1432.6 | 1420.8 | 1408.9 | 1397.1 | 1385.2 | 1380.3 |
| 27.5° | 1406.8 | 1400.3 | 1393.8 | 1387.2 | 1380.6 | 1371.1 | 1358.4 | 1345.7 | 1333.0 | 1320.4 | 1314.3 |
| 30° | 1368.3 | 1361.1 | 1353.8 | 1346.5 | 1339.4 | 1328.9 | 1315.3 | 1301.7 | 1288.2 | 1274.6 | 1267.3 |
| 32.5° | 1327.6 | 1319.5 | 1311.3 | 1303.2 | 1295.0 | 1283.9 | 1269.8 | 1255.8 | 1241.7 | 1227.7 | 1219.3 |
| 35° | 1264.1 | 1254.8 | 1245.6 | 1236.3 | 1227.1 | 1215.2 | 1200.8 | 1186.3 | 1171.8 | 1157.4 | 1147.5 |
| 37.5° | 1196.2 | 1186.6 | 1177.0 | 1167.5 | 1158.0 | 1145.2 | 1129.2 | 1113.1 | 1097.1 | 1081.1 | 1070.1 |
| 40° | 1148.3 | 1138.7 | 1129.2 | 1119.7 | 1110.0 | 1097.1 | 1080.6 | 1064.0 | 1047.6 | 1031.1 | 1019.0 |
| 42.5° | 1102.4 | 1092.4 | 1082.4 | 1072.4 | 1062.4 | 1048.8 | 1031.6 | 1014.4 | 997.3 | 980.1 | 967.7 |
| 45° | 1031.1 | 1020.3 | 1009.7 | 999.0 | 988.3 | 974.2 | 956.9 | 939.6 | 922.2 | 904.8 | 890.6 |
| 47.5° | 957.4 | 946.3 | 935.3 | 924.2 | 913.2 | 898.6 | 880.6 | 862.5 | 844.5 | 826.5 | 811.7 |
| 50° | 907.4 | 896.1 | 884.8 | 873.6 | 862.3 | 847.3 | 828.8 | 810.3 | 791.8 | 773.3 | 758.9 |
| 52.5° | 856.4 | 845.3 | 834.3 | 823.2 | 812.2 | 797.1 | 778.2 | 759.2 | 740.2 | 721.2 | 706.5 |
| 55° | 781.1 | 769.6 | 758.0 | 746.4 | 734.8 | 719.7 | 700.8 | 682.1 | 663.2 | 644.4 | 629.4 |
| 57.5° | 706.6 | 694.6 | 682.6 | 670.6 | 658.5 | 643.3 | 624.8 | 606.2 | 587.7 | 569.2 | 553.9 |
| 60° | 653.5 | 642.0 | 630.4 | 618.8 | 607.2 | 592.2 | 573.7 | 555.2 | 536.6 | 518.1 | 503.1 |
| 62.5° | 605.6 | 593.6 | 581.6 | 569.6 | 557.5 | 542.0 | 523.0 | 504.0 | 485.0 | 466.1 | 452.2 |
| 65° | 531.2 | 518.7 | 506.3 | 493.8 | 481.4 | 465.9 | 447.4 | 428.9 | 410.4 | 391.8 | 379.4 |
| 67.5° | 453.8 | 441.9 | 430.0 | 418.1 | 406.2 | 391.6 | 374.4 | 357.3 | 340.1 | 322.9 | 312.2 |
| 70° | 404.9 | 392.7 | 380.6 | 368.4 | 356.3 | 341.9 | 325.5 | 309.0 | 292.5 | 276.0 | 266.4 |
| 72.5° | 352.8 | 341.9 | 330.8 | 319.8 | 308.8 | 295.5 | 280.0 | 264.4 | 248.8 | 233.3 | 225.1 |
| 75° | 282.5 | 271.8 | 261.1 | 250.4 | 239.7 | 227.6 | 213.9 | 200.3 | 186.8 | 173.2 | 166.5 |
| 77.5° | 211.2 | 202.1 | 193.0 | 183.9 | 174.8 | 164.8 | 153.8 | 142.8 | 131.8 | 120.8 | 116.9 |
| 80° | 165.3 | 156.9 | 148.5 | 140.1 | 131.8 | 123.3 | 114.5 | 105.9 | 97.2 | 88.5 | 87.6 |
| 82.5° | 125.8 | 118.1 | 110.4 | 102.6 | 95.0 | 88.6 | 83.6 | 78.7 | 73.7 | 68.7 | 68.1 |
| 85° | 70.3 | 64.5 | 58.7 | 52.9 | 47.1 | 43.9 | 43.0 | 42.1 | 41.3 | 40.4 | 39.8 |
| 87.5° | 24.5 | 23.0 | 21.5 | 20.1 | 18.6 | 17.9 | 18.0 | 18.0 | 18.1 | 18.2 | 18.2 |
| 90° | 2.4 | 4.4 | 6.4 | 8.4 | 10.4 | 12.1 | 13.5 | 15.0 | 16.5 | 17.9 | 19.0 |
| 92.5° | 17.4 | 19.7 | 21.9 | 24.2 | 26.5 | 28.2 | 29.2 | 30.2 | 31.2 | 32.2 | 32.9 |
| 95° | 48.8 | 50.5 | 52.1 | 53.7 | 55.4 | 56.7 | 58.0 | 59.4 | 60.6 | 61.9 | 62.4 |
| 97.5° | 85.3 | 86.6 | 87.9 | 89.2 | 90.5 | 91.9 | 93.4 | 94.8 | 96.4 | 97.8 | 98.5 |
| 100° | 113.9 | 114.6 | 115.4 | 116.1 | 116.8 | 118.0 | 119.6 | 121.2 | 122.9 | 124.5 | 124.9 |
| 102.5° | 143.9 | 144.1 | 144.5 | 144.7 | 145.0 | 145.9 | 147.4 | 148.9 | 150.3 | 151.9 | 152.4 |
| 105° | 189.6 | 189.8 | 190.0 | 190.1 | 190.4 | 190.8 | 191.5 | 192.2 | 193.0 | 193.7 | 194.2 |
| 107.5° | 237.7 | 237.8 | 238.1 | 238.3 | 238.5 | 238.6 | 238.8 | 238.9 | 239.0 | 239.1 | 239.6 |
| 110° | 270.2 | 270.5 | 270.9 | 271.3 | 271.7 | 271.7 | 271.5 | 271.3 | 271.2 | 271.0 | 270.6 |



TEST NUMBER: P333007-930

CATALOG NUMBER: SA4XXRDIP-C1195D1035U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 304.0 | 304.1 | 304.2 | 304.3 | 304.4 | 304.2 | 303.9 | 303.5 | 303.2 | 302.9 | 302.8 |
| 115° | 354.8 | 354.8 | 354.8 | 354.8 | 354.8 | 354.7 | 354.2 | 353.9 | 353.5 | 353.2 | 353.0 |
| 117.5° | 402.7 | 402.8 | 402.9 | 403.1 | 403.2 | 403.2 | 402.9 | 402.7 | 402.4 | 402.2 | 401.5 |
| 120° | 434.6 | 435.3 | 436.0 | 436.8 | 437.5 | 437.6 | 437.0 | 436.4 | 435.9 | 435.4 | 434.5 |
| 122.5° | 467.7 | 468.1 | 468.3 | 468.6 | 468.9 | 469.0 | 468.7 | 468.4 | 468.1 | 467.9 | 467.3 |
| 125° | 516.7 | 516.7 | 516.7 | 516.7 | 516.7 | 516.7 | 516.5 | 516.3 | 516.1 | 515.9 | 515.6 |
| 127.5° | 561.2 | 561.7 | 562.2 | 562.8 | 563.4 | 563.5 | 563.2 | 562.9 | 562.6 | 562.3 | 562.0 |
| 130° | 592.4 | 593.0 | 593.5 | 594.0 | 594.6 | 594.8 | 594.8 | 594.8 | 594.8 | 594.8 | 594.5 |
| 132.5° | 624.4 | 624.8 | 625.1 | 625.5 | 625.9 | 626.1 | 625.9 | 625.7 | 625.6 | 625.5 | 625.1 |
| 135° | 666.5 | 667.6 | 668.6 | 669.8 | 670.8 | 671.4 | 671.4 | 671.4 | 671.4 | 671.4 | 671.0 |
| 137.5° | 712.4 | 712.9 | 713.4 | 713.9 | 714.4 | 714.8 | 715.1 | 715.4 | 715.7 | 716.0 | 715.5 |
| 140° | 743.0 | 743.3 | 743.7 | 744.0 | 744.4 | 744.6 | 744.6 | 744.6 | 744.6 | 744.6 | 744.4 |
| 142.5° | 770.9 | 771.4 | 771.7 | 772.1 | 772.4 | 772.5 | 772.4 | 772.3 | 772.1 | 771.9 | 771.9 |
| 145° | 809.7 | 810.4 | 811.1 | 811.9 | 812.6 | 813.0 | 813.3 | 813.4 | 813.6 | 813.8 | 813.6 |
| 147.5° | 848.2 | 849.0 | 849.9 | 850.8 | 851.6 | 852.0 | 851.8 | 851.7 | 851.5 | 851.4 | 851.3 |
| 150° | 871.6 | 872.3 | 873.0 | 873.8 | 874.5 | 874.8 | 874.8 | 874.8 | 874.8 | 874.8 | 874.8 |
| 152.5° | 893.7 | 894.1 | 894.5 | 895.0 | 895.4 | 895.7 | 895.9 | 896.0 | 896.2 | 896.3 | 896.7 |
| 155° | 927.7 | 927.7 | 927.7 | 927.7 | 927.7 | 927.6 | 927.4 | 927.2 | 927.1 | 926.9 | 927.6 |
| 157.5° | 956.3 | 956.0 | 955.7 | 955.4 | 955.0 | 954.9 | 954.8 | 954.8 | 954.8 | 954.7 | 955.3 |
| 160° | 973.3 | 973.1 | 972.9 | 972.7 | 972.6 | 972.4 | 972.2 | 972.0 | 971.8 | 971.7 | 972.2 |
| 162.5° | 988.9 | 988.5 | 988.0 | 987.5 | 987.0 | 986.7 | 986.5 | 986.3 | 986.2 | 985.9 | 986.9 |
| 165° | 1009.9 | 1009.3 | 1008.9 | 1008.3 | 1007.7 | 1007.3 | 1006.9 | 1006.6 | 1006.2 | 1005.8 | 1006.9 |
| 167.5° | 1026.1 | 1025.2 | 1024.5 | 1023.8 | 1023.0 | 1022.6 | 1022.6 | 1022.7 | 1022.7 | 1022.8 | 1023.9 |
| 170° | 1035.1 | 1034.2 | 1033.3 | 1032.4 | 1031.5 | 1031.1 | 1031.4 | 1031.5 | 1031.7 | 1031.8 | 1033.0 |
| 172.5° | 1041.6 | 1040.9 | 1040.2 | 1039.3 | 1038.6 | 1038.2 | 1038.3 | 1038.3 | 1038.4 | 1038.4 | 1039.6 |
| 175° | 1050.6 | 1049.7 | 1048.8 | 1047.9 | 1047.0 | 1046.4 | 1046.3 | 1046.0 | 1045.9 | 1045.7 | 1047.0 |
| 177.5° | 1053.5 | 1052.8 | 1052.1 | 1051.3 | 1050.6 | 1050.3 | 1050.3 | 1050.3 | 1050.3 | 1050.3 | 1051.2 |
| 180° | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 |



TEST NUMBER: P333007-930

CATALOG NUMBER: SA4XXRDIP-C1195D1035U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1700.2 | 1700.2 | 1700.2 | 1700.2 | 1700.2 | 1700.2 | 1700.2 | 1700.2 |
| 2.5° | 1693.9 | 1696.5 | 1699.0 | 1700.1 | 1699.9 | 1699.7 | 1699.4 | 1699.2 |
| 5° | 1682.6 | 1685.5 | 1688.4 | 1689.5 | 1689.0 | 1688.4 | 1687.8 | 1687.3 |
| 7.5° | 1660.2 | 1662.1 | 1663.9 | 1664.4 | 1663.5 | 1662.6 | 1661.6 | 1660.7 |
| 10° | 1640.1 | 1641.2 | 1642.4 | 1642.4 | 1641.2 | 1640.1 | 1638.9 | 1637.8 |
| 12.5° | 1615.2 | 1615.9 | 1616.6 | 1616.1 | 1614.5 | 1612.9 | 1611.3 | 1609.6 |
| 15° | 1571.5 | 1570.9 | 1570.3 | 1569.0 | 1567.0 | 1565.0 | 1563.0 | 1561.0 |
| 17.5° | 1518.9 | 1517.3 | 1515.6 | 1513.4 | 1510.3 | 1507.2 | 1504.1 | 1501.0 |
| 20° | 1482.1 | 1479.8 | 1477.5 | 1474.5 | 1470.7 | 1467.0 | 1463.1 | 1459.4 |
| 22.5° | 1441.3 | 1437.8 | 1434.4 | 1431.1 | 1428.0 | 1424.9 | 1421.9 | 1418.8 |
| 25° | 1375.3 | 1370.4 | 1365.5 | 1361.6 | 1358.7 | 1355.8 | 1352.9 | 1350.1 |
| 27.5° | 1308.2 | 1302.1 | 1296.1 | 1290.9 | 1286.8 | 1282.6 | 1278.5 | 1274.3 |
| 30° | 1260.0 | 1252.9 | 1245.6 | 1239.7 | 1235.0 | 1230.4 | 1225.8 | 1221.2 |
| 32.5° | 1210.9 | 1202.5 | 1194.1 | 1187.7 | 1183.3 | 1178.9 | 1174.5 | 1170.1 |
| 35° | 1137.7 | 1127.9 | 1118.0 | 1110.5 | 1105.3 | 1100.1 | 1094.9 | 1089.6 |
| 37.5° | 1059.1 | 1048.1 | 1037.1 | 1029.0 | 1023.8 | 1018.6 | 1013.4 | 1008.2 |
| 40° | 1006.8 | 994.7 | 982.5 | 973.8 | 968.6 | 963.4 | 958.2 | 953.0 |
| 42.5° | 955.3 | 942.9 | 930.5 | 921.6 | 916.2 | 910.8 | 905.3 | 899.8 |
| 45° | 876.4 | 862.3 | 848.1 | 838.4 | 833.2 | 828.0 | 822.8 | 817.6 |
| 47.5° | 797.0 | 782.4 | 767.7 | 757.4 | 751.7 | 746.0 | 740.2 | 734.5 |
| 50° | 744.4 | 729.9 | 715.4 | 705.5 | 700.0 | 694.5 | 689.0 | 683.5 |
| 52.5° | 691.9 | 677.2 | 662.4 | 652.2 | 646.5 | 640.8 | 635.0 | 629.3 |
| 55° | 614.3 | 599.3 | 584.2 | 574.0 | 568.5 | 563.0 | 557.5 | 552.0 |
| 57.5° | 538.7 | 523.3 | 508.1 | 498.4 | 494.2 | 490.0 | 485.8 | 481.7 |
| 60° | 488.0 | 473.0 | 458.0 | 448.2 | 443.5 | 438.9 | 434.2 | 429.6 |
| 62.5° | 438.3 | 424.4 | 410.5 | 401.7 | 398.0 | 394.4 | 390.6 | 386.9 |
| 65° | 367.0 | 354.6 | 342.1 | 334.1 | 330.7 | 327.2 | 323.8 | 320.2 |
| 67.5° | 301.5 | 290.7 | 280.1 | 272.8 | 269.0 | 265.1 | 261.3 | 257.5 |
| 70° | 256.9 | 247.4 | 237.8 | 231.6 | 228.7 | 225.8 | 222.9 | 220.0 |
| 72.5° | 217.0 | 208.8 | 200.6 | 195.3 | 192.6 | 190.0 | 187.3 | 184.6 |
| 75° | 159.9 | 153.2 | 146.5 | 142.4 | 140.6 | 138.8 | 137.1 | 135.4 |
| 77.5° | 113.1 | 109.2 | 105.3 | 103.1 | 102.6 | 102.1 | 101.6 | 101.0 |
| 80° | 86.8 | 85.9 | 85.0 | 84.5 | 84.2 | 83.9 | 83.6 | 83.3 |
| 82.5° | 67.5 | 66.9 | 66.2 | 65.7 | 65.5 | 65.1 | 64.9 | 64.6 |
| 85° | 39.2 | 38.6 | 38.1 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 |
| 87.5° | 18.1 | 18.1 | 18.1 | 18.3 | 18.6 | 18.8 | 19.2 | 19.5 |
| 90° | 20.1 | 21.2 | 22.3 | 23.0 | 23.3 | 23.7 | 24.1 | 24.4 |
| 92.5° | 33.5 | 34.2 | 34.8 | 35.3 | 35.5 | 35.7 | 36.0 | 36.1 |
| 95° | 62.9 | 63.5 | 64.0 | 64.3 | 64.3 | 64.3 | 64.3 | 64.3 |
| 97.5° | 99.1 | 99.8 | 100.4 | 100.8 | 100.8 | 100.8 | 100.8 | 100.8 |
| 100° | 125.2 | 125.6 | 126.0 | 126.1 | 126.1 | 126.1 | 126.1 | 126.1 |
| 102.5° | 152.9 | 153.4 | 153.8 | 154.2 | 154.3 | 154.5 | 154.7 | 154.7 |
| 105° | 194.8 | 195.3 | 195.8 | 196.4 | 196.9 | 197.5 | 198.0 | 198.5 |
| 107.5° | 240.1 | 240.6 | 241.1 | 241.3 | 241.3 | 241.2 | 241.2 | 241.2 |
| 110° | 270.3 | 269.9 | 269.5 | 269.6 | 270.2 | 270.7 | 271.3 | 271.8 |



TEST NUMBER: P333007-930

CATALOG NUMBER: SA4XXRDIP-C1195D1035U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 302.7 | 302.6 | 302.6 | 302.6 | 302.7 | 302.8 | 303.0 | 303.0 |
| 115° | 352.8 | 352.6 | 352.5 | 352.3 | 352.1 | 351.9 | 351.7 | 351.6 |
| 117.5° | 401.0 | 400.3 | 399.7 | 399.3 | 398.8 | 398.5 | 398.1 | 397.8 |
| 120° | 433.6 | 432.7 | 431.8 | 431.5 | 431.9 | 432.2 | 432.6 | 432.9 |
| 122.5° | 466.7 | 466.1 | 465.5 | 464.8 | 464.1 | 463.5 | 462.8 | 462.2 |
| 125° | 515.2 | 514.9 | 514.5 | 514.1 | 513.8 | 513.4 | 513.1 | 512.7 |
| 127.5° | 561.6 | 561.3 | 560.8 | 560.5 | 560.3 | 559.9 | 559.7 | 559.4 |
| 130° | 594.2 | 593.8 | 593.5 | 592.9 | 592.2 | 591.4 | 590.7 | 590.0 |
| 132.5° | 624.8 | 624.4 | 624.0 | 623.7 | 623.4 | 623.1 | 622.8 | 622.6 |
| 135° | 670.7 | 670.3 | 669.9 | 669.4 | 669.0 | 668.4 | 667.8 | 667.3 |
| 137.5° | 715.0 | 714.5 | 714.1 | 713.9 | 714.0 | 714.1 | 714.2 | 714.4 |
| 140° | 744.3 | 744.0 | 743.9 | 743.7 | 743.6 | 743.3 | 743.1 | 743.0 |
| 142.5° | 771.8 | 771.8 | 771.8 | 771.8 | 771.8 | 771.7 | 771.7 | 771.6 |
| 145° | 813.4 | 813.3 | 813.0 | 812.7 | 812.1 | 811.6 | 811.1 | 810.5 |
| 147.5° | 851.1 | 850.9 | 850.8 | 850.6 | 850.4 | 850.3 | 850.1 | 849.9 |
| 150° | 874.8 | 874.8 | 874.8 | 874.7 | 874.6 | 874.3 | 874.2 | 874.0 |
| 152.5° | 897.2 | 897.6 | 898.1 | 898.1 | 897.6 | 897.1 | 896.6 | 896.1 |
| 155° | 928.4 | 929.0 | 929.8 | 929.8 | 929.0 | 928.4 | 927.6 | 926.9 |
| 157.5° | 955.8 | 956.3 | 956.9 | 956.8 | 956.3 | 955.6 | 955.0 | 954.4 |
| 160° | 972.7 | 973.3 | 973.8 | 973.6 | 972.7 | 971.8 | 970.9 | 970.0 |
| 162.5° | 987.9 | 988.9 | 989.9 | 989.9 | 989.0 | 988.1 | 987.2 | 986.3 |
| 165° | 1008.0 | 1009.1 | 1010.2 | 1010.3 | 1009.7 | 1008.9 | 1008.2 | 1007.5 |
| 167.5° | 1024.9 | 1026.1 | 1027.1 | 1027.1 | 1026.0 | 1024.8 | 1023.7 | 1022.6 |
| 170° | 1034.0 | 1035.1 | 1036.2 | 1036.1 | 1034.9 | 1033.6 | 1032.3 | 1031.0 |
| 172.5° | 1040.8 | 1042.0 | 1043.3 | 1043.3 | 1042.0 | 1040.7 | 1039.5 | 1038.2 |
| 175° | 1048.2 | 1049.5 | 1050.8 | 1050.8 | 1049.5 | 1048.2 | 1047.0 | 1045.7 |
| 177.5° | 1052.3 | 1053.3 | 1054.3 | 1054.3 | 1053.1 | 1051.9 | 1050.8 | 1049.6 |
| 180° | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 | 1052.2 |

(END OF REPORT)