

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: P332694-935

Luminaire Tested: **SA4XXDIP-C1195D810U935-4F0-1E-UDD-F**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332694-935
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-C1195D810U935-4F0-1E-UDD-F
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

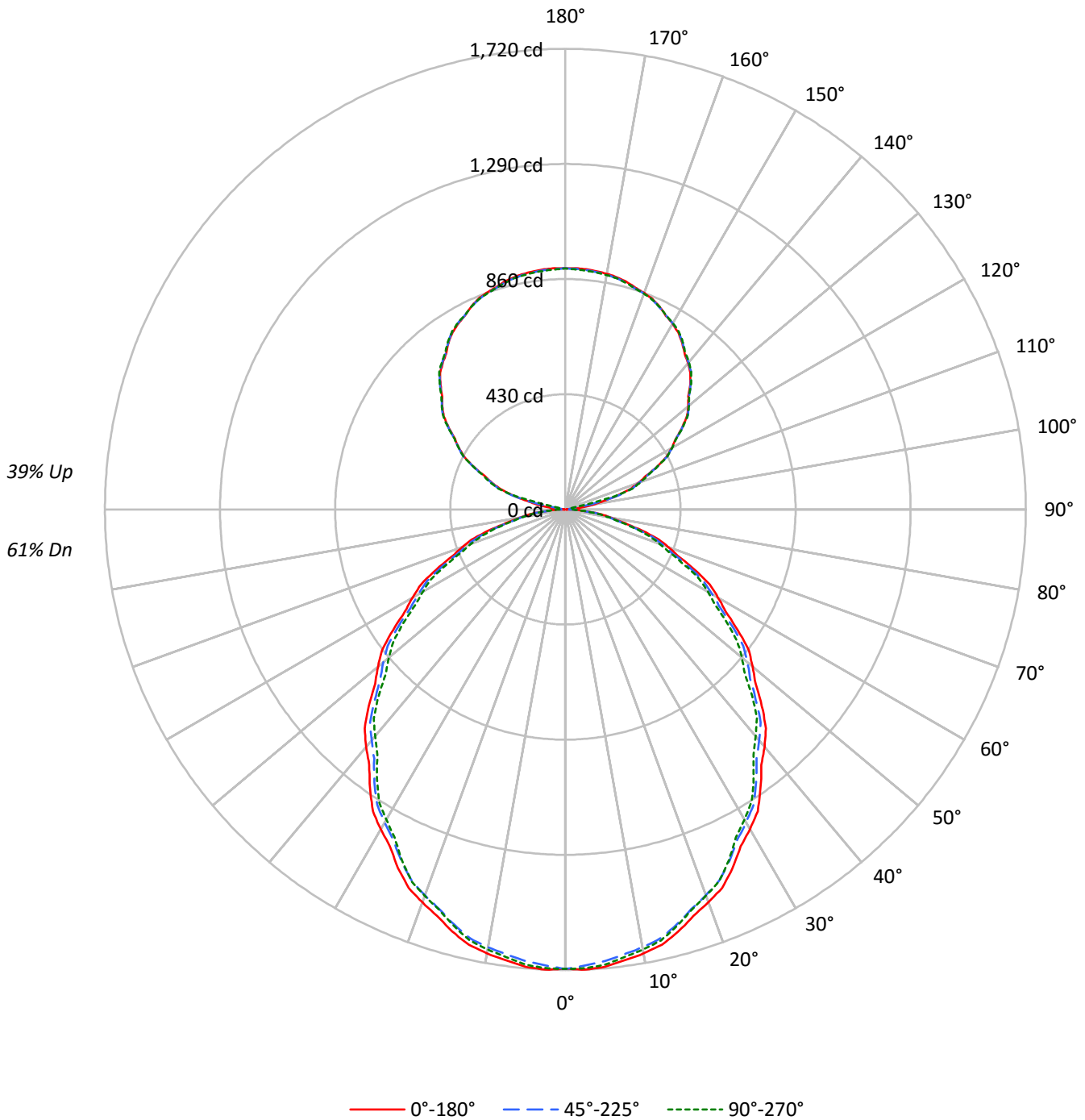
Lumens per Lamp: N/A
Luminaire Lumens: 7189.9 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 60.7
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: P332694-935
CATALOG NUMBER: SA4XXDIP-C1195D810U935-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332694-935

CATALOG NUMBER: SA4XXDIP-C1195D810U935-4F0-1E-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 | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 78 | 78 | 78 | 66 | 66 | 66 | 61 |
| 1 | 100 | 96 | 92 | 88 | 94 | 90 | 86 | 83 | 79 | 76 | 74 | 68 | 66 | 65 | 59 | 57 | 56 | 52 |
| 2 | 91 | 84 | 77 | 72 | 85 | 79 | 73 | 68 | 69 | 65 | 61 | 60 | 57 | 54 | 52 | 49 | 47 | 43 |
| 3 | 83 | 74 | 66 | 60 | 78 | 69 | 62 | 57 | 61 | 56 | 51 | 53 | 49 | 46 | 46 | 43 | 40 | 37 |
| 4 | 76 | 65 | 57 | 51 | 71 | 61 | 54 | 48 | 54 | 48 | 44 | 47 | 43 | 39 | 41 | 37 | 35 | 31 |
| 5 | 70 | 58 | 50 | 44 | 65 | 55 | 47 | 42 | 48 | 42 | 38 | 42 | 38 | 34 | 37 | 33 | 30 | 27 |
| 6 | 65 | 52 | 44 | 38 | 60 | 49 | 42 | 36 | 44 | 38 | 33 | 38 | 34 | 30 | 33 | 30 | 27 | 24 |
| 7 | 60 | 47 | 39 | 33 | 56 | 45 | 37 | 32 | 40 | 34 | 29 | 35 | 30 | 26 | 31 | 27 | 24 | 21 |
| 8 | 56 | 43 | 35 | 30 | 52 | 41 | 33 | 28 | 36 | 30 | 26 | 32 | 27 | 24 | 28 | 24 | 21 | 19 |
| 9 | 52 | 39 | 32 | 26 | 48 | 37 | 30 | 25 | 33 | 27 | 23 | 29 | 25 | 21 | 26 | 22 | 19 | 17 |
| 10 | 48 | 36 | 29 | 24 | 45 | 34 | 27 | 23 | 31 | 25 | 21 | 27 | 23 | 19 | 24 | 20 | 17 | 16 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13852 | 13852 | 13852 |
| 5° | 13893 | 13726 | 13827 |
| 10° | 13806 | 13615 | 13682 |
| 15° | 13639 | 13422 | 13456 |
| 20° | 13418 | 13181 | 13193 |
| 25° | 13165 | 12908 | 12871 |
| 30° | 12855 | 12585 | 12470 |
| 35° | 12534 | 12249 | 12086 |
| 40° | 12199 | 11866 | 11649 |
| 45° | 11851 | 11490 | 11270 |
| 50° | 11465 | 11154 | 10810 |
| 55° | 11050 | 10719 | 10372 |
| 60° | 10634 | 10233 | 9923 |
| 65° | 10164 | 9769 | 9377 |
| 70° | 9640 | 9151 | 8795 |
| 75° | 8833 | 8406 | 8191 |
| 80° | 7861 | 7541 | 7350 |
| 85° | 6873 | 6623 | 6493 |



TEST NUMBER: P332694-935

CATALOG NUMBER: SA4XXDIP-C1195D810U935-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 161.6 | 2.2 |
| 10°-20° | 455.3 | 6.3 |
| 20°-30° | 670.1 | 9.3 |
| 30°-40° | 779.0 | 10.8 |
| 40°-50° | 779.1 | 10.8 |
| 50°-60° | 681.5 | 9.5 |
| 60°-70° | 506.1 | 7.0 |
| 70°-80° | 287.5 | 4.0 |
| 80°-90° | 85.6 | 1.2 |
| 90°-100° | 30.8 | 0.4 |
| 100°-110° | 196.3 | 2.7 |
| 110°-120° | 375.5 | 5.2 |
| 120°-130° | 476.7 | 6.6 |
| 130°-140° | 510.0 | 7.1 |
| 140°-150° | 476.9 | 6.6 |
| 150°-160° | 384.6 | 5.3 |
| 160°-170° | 248.0 | 3.4 |
| 170°-180° | 85.5 | 1.2 |
| 0°-30° | 1287.0 | 17.9 |
| 0°-40° | 2066.0 | 28.7 |
| 0°-60° | 3526.5 | 49.0 |
| 0°-90° | 4405.7 | 61.3 |
| 90°-120° | 602.6 | 8.4 |
| 90°-150° | 2066.1 | 28.7 |
| 90°-180° | 2784.0 | 38.7 |
| 0°-180° | 7189.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1716 | 1716 | 1716 | 1716 | 1716 | |
| 5° | 1714 | 1708 | 1694 | 1708 | 1706 | 163 |
| 15° | 1632 | 1626 | 1606 | 1613 | 1610 | 460 |
| 25° | 1478 | 1468 | 1449 | 1450 | 1445 | 680 |
| 35° | 1272 | 1262 | 1243 | 1233 | 1226 | 795 |
| 45° | 1038 | 1028 | 1006 | 992 | 987 | 800 |
| 55° | 785 | 780 | 762 | 746 | 737 | 703 |
| 65° | 532 | 525 | 511 | 498 | 491 | 527 |
| 75° | 283 | 276 | 270 | 264 | 263 | 301 |
| 85° | 74 | 74 | 72 | 71 | 70 | 82 |
| 90° | 2 | 9 | 15 | 19 | 20 | 6 |
| 95° | 37 | 15 | 15 | 19 | 20 | 48 |
| 105° | 203 | 207 | 210 | 214 | 192 | 212 |
| 115° | 378 | 380 | 380 | 381 | 381 | 372 |
| 125° | 532 | 534 | 533 | 535 | 536 | 475 |
| 135° | 660 | 659 | 662 | 663 | 664 | 508 |
| 145° | 761 | 763 | 763 | 763 | 765 | 475 |
| 155° | 834 | 835 | 833 | 835 | 833 | 384 |
| 165° | 880 | 877 | 876 | 881 | 876 | 249 |
| 175° | 900 | 896 | 897 | 902 | 895 | 86 |
| 180° | 900 | 900 | 900 | 900 | 900 | |



TEST NUMBER: P332694-935

CATALOG NUMBER: SA4XXDIP-C1195D810U935-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 |
| 2.5° | 1720.2 | 1719.5 | 1718.7 | 1718.0 | 1717.3 | 1715.5 | 1712.9 | 1710.2 | 1707.5 | 1704.9 | 1707.3 |
| 5° | 1714.4 | 1713.2 | 1712.0 | 1710.8 | 1709.6 | 1707.3 | 1703.9 | 1700.6 | 1697.2 | 1693.8 | 1697.2 |
| 7.5° | 1698.5 | 1697.3 | 1696.1 | 1694.8 | 1693.6 | 1691.2 | 1687.4 | 1683.7 | 1680.0 | 1676.2 | 1679.0 |
| 10° | 1684.2 | 1683.0 | 1681.8 | 1680.5 | 1679.3 | 1676.7 | 1672.8 | 1668.8 | 1664.8 | 1660.9 | 1663.3 |
| 12.5° | 1665.5 | 1664.3 | 1663.0 | 1661.8 | 1660.6 | 1657.9 | 1653.7 | 1649.5 | 1645.3 | 1641.1 | 1643.7 |
| 15° | 1631.9 | 1630.7 | 1629.5 | 1628.3 | 1627.0 | 1624.2 | 1619.5 | 1615.0 | 1610.4 | 1605.9 | 1607.7 |
| 17.5° | 1591.6 | 1590.0 | 1588.5 | 1587.0 | 1585.4 | 1582.5 | 1578.1 | 1573.8 | 1569.5 | 1565.1 | 1566.3 |
| 20° | 1561.9 | 1560.3 | 1558.8 | 1557.3 | 1555.7 | 1552.6 | 1548.1 | 1543.5 | 1539.0 | 1534.3 | 1535.2 |
| 22.5° | 1529.9 | 1527.9 | 1526.0 | 1523.9 | 1521.9 | 1518.5 | 1514.0 | 1509.4 | 1504.9 | 1500.2 | 1501.9 |
| 25° | 1478.0 | 1475.8 | 1473.7 | 1471.5 | 1469.4 | 1466.2 | 1461.9 | 1457.7 | 1453.4 | 1449.1 | 1449.4 |
| 27.5° | 1418.6 | 1416.3 | 1414.2 | 1412.0 | 1409.8 | 1406.7 | 1402.7 | 1398.8 | 1394.8 | 1390.8 | 1390.1 |
| 30° | 1379.0 | 1376.6 | 1374.1 | 1371.7 | 1369.2 | 1366.0 | 1362.0 | 1358.1 | 1354.1 | 1350.1 | 1348.9 |
| 32.5° | 1337.2 | 1335.0 | 1332.8 | 1330.6 | 1328.4 | 1325.2 | 1320.9 | 1316.7 | 1312.5 | 1308.3 | 1306.8 |
| 35° | 1271.8 | 1269.6 | 1267.5 | 1265.3 | 1263.2 | 1260.0 | 1255.7 | 1251.5 | 1247.2 | 1242.9 | 1240.7 |
| 37.5° | 1202.7 | 1200.8 | 1198.9 | 1196.9 | 1194.9 | 1191.6 | 1187.1 | 1182.5 | 1177.8 | 1173.3 | 1171.0 |
| 40° | 1157.6 | 1155.2 | 1152.7 | 1150.3 | 1147.9 | 1144.4 | 1139.8 | 1135.1 | 1130.6 | 1126.0 | 1122.9 |
| 42.5° | 1109.2 | 1107.8 | 1106.3 | 1104.8 | 1103.4 | 1100.1 | 1095.0 | 1089.9 | 1084.9 | 1079.8 | 1076.2 |
| 45° | 1038.0 | 1035.9 | 1033.7 | 1031.6 | 1029.5 | 1026.0 | 1021.1 | 1016.2 | 1011.2 | 1006.4 | 1003.1 |
| 47.5° | 963.5 | 962.0 | 960.5 | 959.1 | 957.6 | 954.7 | 950.1 | 945.6 | 941.1 | 936.6 | 932.8 |
| 50° | 912.9 | 911.7 | 910.4 | 909.2 | 908.0 | 905.3 | 901.0 | 896.7 | 892.4 | 888.1 | 883.9 |
| 52.5° | 863.4 | 861.9 | 860.5 | 859.0 | 857.6 | 854.5 | 850.1 | 845.5 | 841.0 | 836.5 | 832.7 |
| 55° | 785.1 | 784.1 | 783.3 | 782.3 | 781.4 | 778.8 | 774.5 | 770.3 | 765.9 | 761.6 | 758.0 |
| 57.5° | 710.2 | 709.2 | 708.2 | 707.1 | 706.1 | 703.4 | 699.2 | 695.0 | 690.8 | 686.6 | 683.1 |
| 60° | 658.6 | 657.0 | 655.5 | 654.0 | 652.5 | 649.7 | 645.8 | 641.8 | 637.7 | 633.8 | 631.0 |
| 62.5° | 608.0 | 606.7 | 605.4 | 604.1 | 602.9 | 600.1 | 595.9 | 591.7 | 587.5 | 583.2 | 580.7 |
| 65° | 532.1 | 530.5 | 529.0 | 527.4 | 526.0 | 523.7 | 520.6 | 517.5 | 514.5 | 511.4 | 508.4 |
| 67.5° | 455.6 | 454.3 | 452.8 | 451.4 | 450.0 | 447.8 | 444.9 | 442.0 | 439.0 | 436.1 | 433.2 |
| 70° | 408.4 | 406.2 | 404.1 | 401.9 | 399.8 | 397.5 | 395.0 | 392.6 | 390.1 | 387.7 | 385.3 |
| 72.5° | 357.7 | 355.6 | 353.4 | 351.3 | 349.2 | 347.2 | 345.2 | 343.2 | 341.3 | 339.3 | 337.3 |
| 75° | 283.2 | 281.7 | 280.2 | 278.6 | 277.1 | 275.6 | 274.1 | 272.5 | 271.0 | 269.5 | 268.3 |
| 77.5° | 212.0 | 211.3 | 210.7 | 210.0 | 209.3 | 208.3 | 207.0 | 205.6 | 204.3 | 202.9 | 202.6 |
| 80° | 169.1 | 168.2 | 167.3 | 166.3 | 165.5 | 164.7 | 164.1 | 163.4 | 162.8 | 162.2 | 161.6 |
| 82.5° | 127.3 | 126.9 | 126.5 | 126.1 | 125.6 | 125.4 | 125.2 | 125.1 | 124.9 | 124.8 | 124.5 |
| 85° | 74.2 | 74.2 | 74.2 | 74.2 | 74.2 | 74.0 | 73.4 | 72.8 | 72.1 | 71.5 | 71.5 |
| 87.5° | 29.0 | 29.1 | 29.2 | 29.3 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.5 |
| 90° | 2.0 | 3.7 | 5.3 | 7.0 | 8.6 | 10.0 | 11.2 | 12.4 | 13.6 | 14.8 | 15.7 |
| 92.5° | 8.5 | 8.6 | 8.7 | 8.8 | 8.9 | 9.5 | 10.7 | 11.9 | 13.1 | 14.3 | 15.2 |
| 95° | 37.0 | 31.9 | 26.9 | 21.8 | 16.7 | 14.2 | 14.4 | 14.6 | 14.6 | 14.8 | 15.7 |
| 97.5° | 78.6 | 81.8 | 85.0 | 88.2 | 91.4 | 84.6 | 67.8 | 51.1 | 34.4 | 17.7 | 17.8 |
| 100° | 110.4 | 113.1 | 115.8 | 118.5 | 121.1 | 112.2 | 91.5 | 70.9 | 50.3 | 29.6 | 27.0 |
| 102.5° | 145.9 | 147.9 | 149.9 | 151.9 | 153.9 | 153.5 | 150.8 | 148.1 | 145.4 | 142.8 | 115.3 |
| 105° | 202.6 | 203.5 | 204.4 | 205.3 | 206.2 | 207.1 | 207.8 | 208.5 | 209.3 | 210.0 | 211.4 |
| 107.5° | 255.3 | 255.7 | 256.1 | 256.7 | 257.1 | 257.8 | 258.8 | 259.8 | 260.9 | 261.9 | 262.5 |
| 110° | 290.8 | 291.3 | 291.7 | 292.1 | 292.7 | 293.3 | 294.2 | 295.1 | 296.0 | 296.9 | 297.2 |



TEST NUMBER: P332694-935

CATALOG NUMBER: SA4XXDIP-C1195D810U935-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 325.3 | 326.1 | 326.9 | 327.7 | 328.6 | 329.2 | 329.6 | 329.9 | 330.4 | 330.8 | 330.8 |
| 115° | 378.3 | 378.8 | 379.3 | 379.7 | 380.1 | 380.3 | 380.1 | 380.0 | 379.9 | 379.7 | 380.0 |
| 117.5° | 426.1 | 426.7 | 427.3 | 427.9 | 428.5 | 429.0 | 429.3 | 429.6 | 430.0 | 430.3 | 430.2 |
| 120° | 458.5 | 459.1 | 459.7 | 460.3 | 460.8 | 461.1 | 460.9 | 460.8 | 460.6 | 460.5 | 460.8 |
| 122.5° | 488.6 | 489.0 | 489.3 | 489.7 | 490.1 | 490.3 | 490.5 | 490.8 | 490.9 | 491.2 | 491.4 |
| 125° | 531.8 | 532.4 | 533.0 | 533.6 | 534.3 | 534.3 | 534.1 | 533.8 | 533.5 | 533.2 | 533.6 |
| 127.5° | 572.7 | 572.9 | 573.1 | 573.3 | 573.3 | 573.8 | 574.5 | 575.1 | 575.8 | 576.5 | 576.4 |
| 130° | 599.2 | 599.3 | 599.4 | 599.6 | 599.8 | 600.0 | 600.5 | 601.0 | 601.4 | 601.8 | 602.0 |
| 132.5° | 623.4 | 623.6 | 624.0 | 624.2 | 624.5 | 624.9 | 625.4 | 626.0 | 626.5 | 627.2 | 627.3 |
| 135° | 659.8 | 659.6 | 659.4 | 659.3 | 659.2 | 659.4 | 660.0 | 660.6 | 661.2 | 661.8 | 662.0 |
| 137.5° | 691.9 | 692.0 | 692.1 | 692.1 | 692.2 | 692.5 | 693.2 | 693.9 | 694.5 | 695.2 | 695.5 |
| 140° | 712.9 | 713.3 | 713.5 | 713.9 | 714.1 | 714.5 | 714.7 | 715.1 | 715.3 | 715.6 | 716.1 |
| 142.5° | 731.8 | 732.3 | 732.9 | 733.4 | 733.9 | 734.3 | 734.4 | 734.7 | 734.9 | 735.0 | 735.4 |
| 145° | 760.7 | 761.2 | 761.6 | 762.1 | 762.5 | 762.8 | 762.8 | 762.8 | 762.8 | 762.8 | 762.9 |
| 147.5° | 783.8 | 784.6 | 785.4 | 786.3 | 787.1 | 787.5 | 787.3 | 787.1 | 787.0 | 786.9 | 787.0 |
| 150° | 800.5 | 801.1 | 801.7 | 802.3 | 802.8 | 803.1 | 802.9 | 802.8 | 802.6 | 802.5 | 802.5 |
| 152.5° | 814.4 | 814.9 | 815.4 | 815.9 | 816.4 | 816.5 | 816.2 | 816.0 | 815.6 | 815.4 | 815.6 |
| 155° | 834.1 | 834.2 | 834.4 | 834.6 | 834.7 | 834.6 | 834.1 | 833.6 | 833.2 | 832.8 | 833.4 |
| 157.5° | 850.7 | 850.6 | 850.5 | 850.4 | 850.3 | 850.0 | 849.5 | 849.0 | 848.5 | 848.0 | 848.8 |
| 160° | 860.4 | 859.9 | 859.5 | 859.0 | 858.6 | 858.2 | 858.2 | 858.0 | 857.8 | 857.6 | 858.6 |
| 162.5° | 869.0 | 868.4 | 867.8 | 867.3 | 866.7 | 866.3 | 866.2 | 866.1 | 865.9 | 865.7 | 866.7 |
| 165° | 879.9 | 879.2 | 878.4 | 877.6 | 876.9 | 876.5 | 876.5 | 876.5 | 876.5 | 876.5 | 877.7 |
| 167.5° | 888.5 | 887.7 | 886.9 | 886.1 | 885.4 | 884.9 | 884.8 | 884.8 | 884.7 | 884.6 | 885.9 |
| 170° | 893.4 | 892.4 | 891.6 | 890.6 | 889.8 | 889.4 | 889.5 | 889.7 | 889.8 | 890.0 | 891.1 |
| 172.5° | 896.6 | 895.7 | 894.8 | 893.9 | 893.0 | 892.6 | 892.8 | 892.9 | 893.0 | 893.2 | 894.4 |
| 175° | 900.1 | 899.1 | 898.3 | 897.4 | 896.5 | 896.1 | 896.3 | 896.4 | 896.6 | 896.7 | 898.0 |
| 177.5° | 901.7 | 900.9 | 900.0 | 899.1 | 898.4 | 898.0 | 898.3 | 898.5 | 898.8 | 899.0 | 899.9 |
| 180° | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 |



TEST NUMBER: P332694-935

CATALOG NUMBER: SA4XXDIP-C1195D810U935-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 |
| 2.5° | 1709.7 | 1712.2 | 1714.6 | 1715.7 | 1715.5 | 1715.2 | 1714.9 | 1714.7 |
| 5° | 1700.6 | 1703.9 | 1707.3 | 1708.7 | 1708.1 | 1707.4 | 1706.8 | 1706.2 |
| 7.5° | 1681.6 | 1684.3 | 1687.0 | 1688.2 | 1687.8 | 1687.4 | 1687.0 | 1686.7 |
| 10° | 1665.7 | 1668.2 | 1670.6 | 1671.5 | 1670.9 | 1670.3 | 1669.7 | 1669.0 |
| 12.5° | 1646.4 | 1649.1 | 1651.8 | 1652.7 | 1651.8 | 1651.0 | 1650.1 | 1649.2 |
| 15° | 1609.5 | 1611.4 | 1613.2 | 1613.6 | 1612.7 | 1611.8 | 1610.8 | 1610.0 |
| 17.5° | 1567.5 | 1568.7 | 1569.8 | 1570.0 | 1569.4 | 1568.8 | 1568.2 | 1567.6 |
| 20° | 1536.2 | 1537.1 | 1538.0 | 1538.2 | 1537.6 | 1537.0 | 1536.4 | 1535.7 |
| 22.5° | 1503.6 | 1505.2 | 1506.8 | 1507.1 | 1506.1 | 1504.9 | 1503.8 | 1502.7 |
| 25° | 1449.8 | 1450.0 | 1450.4 | 1449.8 | 1448.6 | 1447.4 | 1446.2 | 1445.0 |
| 27.5° | 1389.3 | 1388.6 | 1387.8 | 1386.7 | 1385.2 | 1383.7 | 1382.2 | 1380.6 |
| 30° | 1347.6 | 1346.4 | 1345.2 | 1343.8 | 1342.3 | 1340.8 | 1339.3 | 1337.7 |
| 32.5° | 1305.4 | 1303.9 | 1302.4 | 1301.0 | 1299.4 | 1297.9 | 1296.4 | 1294.9 |
| 35° | 1238.6 | 1236.5 | 1234.3 | 1232.5 | 1231.0 | 1229.4 | 1227.9 | 1226.4 |
| 37.5° | 1168.6 | 1166.3 | 1164.0 | 1161.8 | 1159.9 | 1157.8 | 1155.8 | 1153.7 |
| 40° | 1119.9 | 1116.8 | 1113.8 | 1111.5 | 1110.0 | 1108.5 | 1106.9 | 1105.4 |
| 42.5° | 1072.7 | 1069.2 | 1065.7 | 1063.3 | 1062.3 | 1061.3 | 1060.2 | 1059.2 |
| 45° | 999.7 | 996.3 | 993.0 | 990.8 | 989.9 | 988.9 | 988.1 | 987.1 |
| 47.5° | 929.0 | 925.2 | 921.4 | 918.3 | 916.0 | 913.7 | 911.4 | 909.0 |
| 50° | 879.6 | 875.3 | 871.1 | 868.0 | 866.2 | 864.4 | 862.5 | 860.7 |
| 52.5° | 828.9 | 825.1 | 821.3 | 818.3 | 816.0 | 813.6 | 811.3 | 809.0 |
| 55° | 754.3 | 750.7 | 747.0 | 744.2 | 742.4 | 740.6 | 738.7 | 736.9 |
| 57.5° | 679.7 | 676.1 | 672.7 | 670.0 | 668.3 | 666.5 | 664.7 | 663.0 |
| 60° | 628.3 | 625.6 | 622.8 | 620.7 | 619.1 | 617.6 | 616.1 | 614.6 |
| 62.5° | 578.2 | 575.7 | 573.2 | 571.2 | 569.6 | 568.1 | 566.6 | 565.1 |
| 65° | 505.3 | 502.3 | 499.2 | 497.0 | 495.4 | 493.9 | 492.3 | 490.9 |
| 67.5° | 430.2 | 427.3 | 424.4 | 422.7 | 422.2 | 421.8 | 421.4 | 420.9 |
| 70° | 382.8 | 380.4 | 377.9 | 376.3 | 375.3 | 374.4 | 373.5 | 372.6 |
| 72.5° | 335.4 | 333.5 | 331.5 | 330.0 | 329.2 | 328.2 | 327.3 | 326.4 |
| 75° | 267.0 | 265.8 | 264.6 | 263.8 | 263.6 | 263.2 | 262.9 | 262.6 |
| 77.5° | 202.2 | 201.8 | 201.5 | 200.9 | 200.1 | 199.3 | 198.5 | 197.7 |
| 80° | 161.0 | 160.4 | 159.8 | 159.4 | 159.0 | 158.7 | 158.4 | 158.1 |
| 82.5° | 124.1 | 123.7 | 123.4 | 123.0 | 122.7 | 122.4 | 122.1 | 121.8 |
| 85° | 71.5 | 71.5 | 71.5 | 71.4 | 71.0 | 70.7 | 70.4 | 70.1 |
| 87.5° | 29.7 | 29.9 | 30.0 | 30.2 | 30.2 | 30.3 | 30.4 | 30.5 |
| 90° | 16.6 | 17.5 | 18.4 | 19.0 | 19.3 | 19.6 | 19.9 | 20.2 |
| 92.5° | 16.1 | 17.0 | 17.8 | 18.3 | 18.4 | 18.4 | 18.5 | 18.6 |
| 95° | 16.6 | 17.5 | 18.4 | 18.9 | 19.1 | 19.2 | 19.4 | 19.5 |
| 97.5° | 18.0 | 18.1 | 18.2 | 18.3 | 18.4 | 18.5 | 18.7 | 18.9 |
| 100° | 24.5 | 22.0 | 19.5 | 18.3 | 18.4 | 18.5 | 18.7 | 18.9 |
| 102.5° | 87.8 | 60.4 | 33.0 | 19.3 | 19.3 | 19.3 | 19.4 | 19.4 |
| 105° | 212.8 | 214.0 | 215.4 | 213.4 | 208.0 | 202.6 | 197.3 | 191.8 |
| 107.5° | 263.2 | 263.8 | 264.5 | 265.1 | 265.7 | 266.2 | 266.8 | 267.4 |
| 110° | 297.5 | 297.8 | 298.1 | 298.4 | 298.9 | 299.4 | 299.8 | 300.2 |



TEST NUMBER: P332694-935

CATALOG NUMBER: SA4XXDIP-C1195D810U935-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 330.7 | 330.6 | 330.5 | 330.8 | 331.4 | 332.0 | 332.5 | 333.1 |
| 115° | 380.3 | 380.6 | 380.9 | 381.1 | 381.1 | 381.1 | 381.1 | 381.1 |
| 117.5° | 430.2 | 430.2 | 430.1 | 430.0 | 430.0 | 429.9 | 429.8 | 429.8 |
| 120° | 461.1 | 461.4 | 461.7 | 461.7 | 461.4 | 461.1 | 460.8 | 460.5 |
| 122.5° | 491.5 | 491.7 | 491.9 | 491.8 | 491.5 | 491.2 | 490.9 | 490.6 |
| 125° | 534.1 | 534.5 | 534.9 | 535.3 | 535.5 | 535.5 | 535.7 | 535.9 |
| 127.5° | 576.4 | 576.3 | 576.2 | 576.1 | 575.9 | 575.8 | 575.8 | 575.6 |
| 130° | 602.2 | 602.3 | 602.4 | 602.5 | 602.5 | 602.5 | 602.5 | 602.5 |
| 132.5° | 627.5 | 627.6 | 627.8 | 627.8 | 627.7 | 627.5 | 627.4 | 627.3 |
| 135° | 662.4 | 662.6 | 663.0 | 663.2 | 663.6 | 663.8 | 664.2 | 664.4 |
| 137.5° | 695.8 | 696.1 | 696.5 | 696.5 | 696.5 | 696.4 | 696.3 | 696.2 |
| 140° | 716.5 | 717.0 | 717.4 | 717.7 | 717.9 | 718.0 | 718.2 | 718.3 |
| 142.5° | 735.6 | 736.0 | 736.3 | 736.5 | 736.5 | 736.6 | 736.6 | 736.6 |
| 145° | 763.0 | 763.2 | 763.4 | 763.5 | 763.9 | 764.1 | 764.5 | 764.7 |
| 147.5° | 787.1 | 787.2 | 787.3 | 787.5 | 787.6 | 787.7 | 787.9 | 788.1 |
| 150° | 802.5 | 802.5 | 802.5 | 802.5 | 802.7 | 802.8 | 803.0 | 803.1 |
| 152.5° | 815.9 | 816.1 | 816.3 | 816.4 | 816.3 | 816.2 | 816.1 | 816.1 |
| 155° | 834.0 | 834.6 | 835.2 | 835.3 | 834.7 | 834.3 | 833.9 | 833.4 |
| 157.5° | 849.5 | 850.3 | 851.1 | 851.1 | 850.3 | 849.5 | 848.8 | 848.0 |
| 160° | 859.5 | 860.4 | 861.3 | 861.3 | 860.4 | 859.5 | 858.6 | 857.6 |
| 162.5° | 867.5 | 868.4 | 869.4 | 869.3 | 868.2 | 867.2 | 866.3 | 865.2 |
| 165° | 878.9 | 880.1 | 881.3 | 881.2 | 879.9 | 878.6 | 877.2 | 875.8 |
| 167.5° | 887.3 | 888.6 | 889.8 | 889.8 | 888.3 | 886.7 | 885.3 | 883.8 |
| 170° | 892.3 | 893.5 | 894.8 | 894.6 | 893.1 | 891.7 | 890.1 | 888.6 |
| 172.5° | 895.6 | 896.8 | 898.0 | 897.8 | 896.2 | 894.6 | 892.9 | 891.3 |
| 175° | 899.4 | 900.8 | 902.1 | 901.9 | 900.1 | 898.3 | 896.5 | 894.7 |
| 177.5° | 901.0 | 901.9 | 902.8 | 902.6 | 901.1 | 899.7 | 898.3 | 896.8 |
| 180° | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 | 900.1 |

(END OF REPORT)