

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: P331746

Luminaire Tested: **SA2XXRDIP-C1005D530U835-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331746
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C1005D530U835-4F0-1E-UDD-F4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5549.3 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

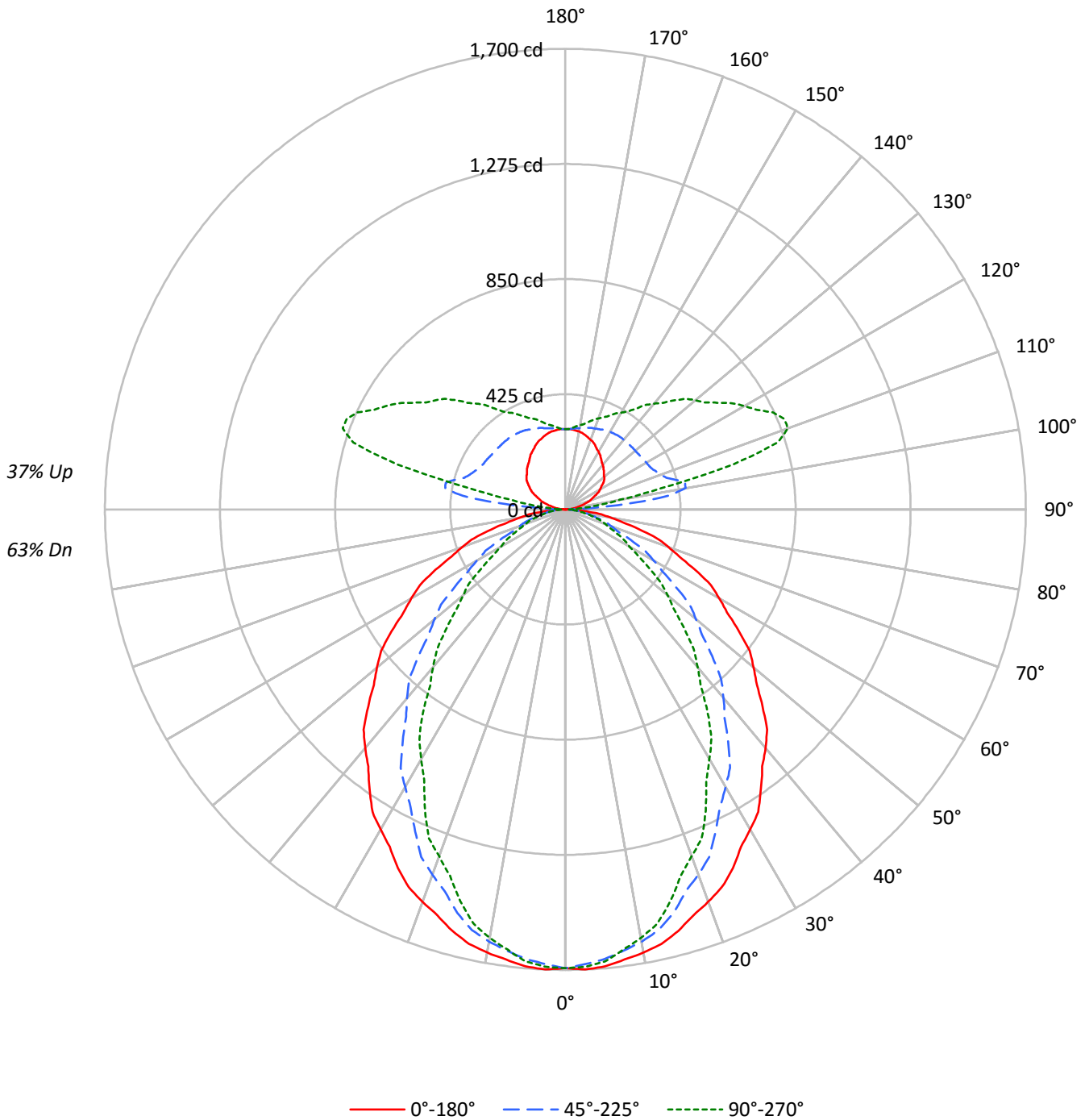
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331746

CATALOG NUMBER: SA2XXRDIP-C1005D530U835-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P331746

CATALOG NUMBER: SA2XXRDIP-C1005D530U835-4F0-1E-UDD-F4

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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 79 | 79 | 79 | 68 | 68 | 68 | 63 | | | | 63 |
| 1 | 101 | 97 | 93 | 90 | 95 | 91 | 88 | 85 | 80 | 78 | 76 | 70 | 68 | 67 | 61 | 60 | 59 | 54 | | | | 54 |
| 2 | 93 | 85 | 80 | 74 | 87 | 80 | 75 | 71 | 71 | 67 | 64 | 62 | 59 | 57 | 54 | 52 | 50 | 46 | | | | 46 |
| 3 | 85 | 76 | 69 | 63 | 79 | 71 | 65 | 60 | 63 | 58 | 54 | 56 | 52 | 49 | 49 | 46 | 43 | 40 | | | | 40 |
| 4 | 78 | 67 | 60 | 54 | 73 | 64 | 57 | 51 | 57 | 51 | 47 | 50 | 46 | 42 | 44 | 41 | 38 | 35 | | | | 35 |
| 5 | 72 | 61 | 52 | 47 | 67 | 57 | 50 | 45 | 51 | 45 | 41 | 45 | 41 | 37 | 40 | 36 | 33 | 31 | | | | 31 |
| 6 | 67 | 55 | 47 | 41 | 62 | 52 | 44 | 39 | 46 | 40 | 36 | 41 | 36 | 33 | 36 | 33 | 30 | 27 | | | | 27 |
| 7 | 62 | 50 | 42 | 36 | 58 | 47 | 40 | 35 | 42 | 36 | 32 | 38 | 33 | 29 | 33 | 30 | 27 | 24 | | | | 24 |
| 8 | 57 | 45 | 38 | 32 | 54 | 43 | 36 | 31 | 39 | 33 | 29 | 35 | 30 | 26 | 31 | 27 | 24 | 22 | | | | 22 |
| 9 | 54 | 42 | 34 | 29 | 50 | 39 | 33 | 28 | 36 | 30 | 26 | 32 | 27 | 24 | 29 | 25 | 22 | 20 | | | | 20 |
| 10 | 50 | 38 | 31 | 26 | 47 | 36 | 30 | 25 | 33 | 27 | 24 | 30 | 25 | 22 | 27 | 23 | 20 | 18 | | | | 18 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 27341 | 27341 | 27341 |
| 5° | 27446 | 27000 | 27149 |
| 10° | 27237 | 26558 | 26332 |
| 15° | 26924 | 25770 | 25028 |
| 20° | 26490 | 24646 | 23409 |
| 25° | 26045 | 23370 | 21841 |
| 30° | 25430 | 22057 | 19829 |
| 35° | 24829 | 20631 | 18065 |
| 40° | 24226 | 19155 | 16021 |
| 45° | 23516 | 17497 | 14173 |
| 50° | 22790 | 15822 | 12356 |
| 55° | 22044 | 14021 | 10612 |
| 60° | 21180 | 12126 | 8809 |
| 65° | 20199 | 10189 | 8023 |
| 70° | 19029 | 8393 | 7378 |
| 75° | 17592 | 7648 | 6881 |
| 80° | 15528 | 6843 | 6267 |
| 85° | 12208 | 5391 | 5391 |



TEST NUMBER: P331746

CATALOG NUMBER: SA2XXRDIP-C1005D530U835-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 158.5 | 2.9 |
| 10°-20° | 435.2 | 7.8 |
| 20°-30° | 611.2 | 11.0 |
| 30°-40° | 666.5 | 12.0 |
| 40°-50° | 612.8 | 11.0 |
| 50°-60° | 481.3 | 8.7 |
| 60°-70° | 313.8 | 5.7 |
| 70°-80° | 161.8 | 2.9 |
| 80°-90° | 44.6 | 0.8 |
| 90°-100° | 118.6 | 2.1 |
| 100°-110° | 402.4 | 7.3 |
| 110°-120° | 427.5 | 7.7 |
| 120°-130° | 351.9 | 6.3 |
| 130°-140° | 282.6 | 5.1 |
| 140°-150° | 213.5 | 3.8 |
| 150°-160° | 150.1 | 2.7 |
| 160°-170° | 88.3 | 1.6 |
| 170°-180° | 28.8 | 0.5 |
| 0°-30° | 1204.9 | 21.7 |
| 0°-40° | 1871.4 | 33.7 |
| 0°-60° | 2965.4 | 53.4 |
| 0°-90° | 3485.7 | 62.8 |
| 90°-120° | 948.4 | 17.1 |
| 90°-150° | 1796.4 | 32.4 |
| 90°-180° | 2064.0 | 37.2 |
| 0°-180° | 5549.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1693 | 1693 | 1693 | 1693 | 1693 | |
| 5° | 1693 | 1685 | 1666 | 1679 | 1675 | 160 |
| 15° | 1611 | 1592 | 1542 | 1513 | 1497 | 454 |
| 25° | 1462 | 1410 | 1312 | 1251 | 1226 | 672 |
| 35° | 1260 | 1178 | 1047 | 954 | 916 | 788 |
| 45° | 1030 | 924 | 766 | 661 | 621 | 795 |
| 55° | 783 | 661 | 498 | 410 | 377 | 700 |
| 65° | 529 | 404 | 267 | 217 | 210 | 524 |
| 75° | 282 | 178 | 123 | 112 | 110 | 298 |
| 85° | 66 | 35 | 29 | 29 | 29 | 78 |
| 90° | 1 | 8 | 19 | 18 | 19 | 4 |
| 95° | 20 | 49 | 224 | 84 | 65 | 21 |
| 105° | 70 | 105 | 423 | 755 | 643 | 74 |
| 115° | 123 | 155 | 354 | 730 | 846 | 122 |
| 125° | 171 | 202 | 340 | 591 | 686 | 152 |
| 135° | 201 | 240 | 336 | 497 | 569 | 155 |
| 145° | 229 | 263 | 334 | 415 | 454 | 144 |
| 155° | 261 | 281 | 324 | 367 | 382 | 120 |
| 165° | 284 | 293 | 311 | 330 | 335 | 80 |
| 175° | 296 | 296 | 299 | 303 | 302 | 28 |
| 180° | 296 | 296 | 296 | 296 | 296 | |



TEST NUMBER: P331746

CATALOG NUMBER: SA2XXRDIP-C1005D530U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1693.4 | 1693.4 | 1693.4 | 1693.4 | 1693.4 | 1693.4 | 1693.4 | 1693.4 | 1693.4 | 1693.4 | 1693.4 |
| 2.5° | 1699.6 | 1698.2 | 1696.8 | 1695.5 | 1694.1 | 1691.9 | 1688.9 | 1686.0 | 1683.0 | 1680.0 | 1682.7 |
| 5° | 1693.4 | 1691.7 | 1690.0 | 1688.3 | 1686.6 | 1683.6 | 1679.1 | 1674.7 | 1670.3 | 1665.9 | 1668.9 |
| 7.5° | 1676.0 | 1673.9 | 1671.8 | 1669.6 | 1667.5 | 1663.9 | 1658.7 | 1653.5 | 1648.4 | 1643.2 | 1644.1 |
| 10° | 1661.3 | 1658.9 | 1656.5 | 1654.1 | 1651.7 | 1647.1 | 1640.3 | 1633.5 | 1626.7 | 1619.9 | 1618.9 |
| 12.5° | 1642.9 | 1639.9 | 1637.0 | 1634.1 | 1631.2 | 1625.3 | 1616.6 | 1607.9 | 1599.2 | 1590.5 | 1588.6 |
| 15° | 1610.7 | 1606.9 | 1603.2 | 1599.4 | 1595.7 | 1588.0 | 1576.5 | 1564.9 | 1553.3 | 1541.7 | 1535.3 |
| 17.5° | 1571.1 | 1565.4 | 1559.7 | 1554.0 | 1548.3 | 1538.0 | 1523.1 | 1508.3 | 1493.4 | 1478.6 | 1470.9 |
| 20° | 1541.7 | 1534.9 | 1528.1 | 1521.3 | 1514.5 | 1502.6 | 1485.5 | 1468.5 | 1451.5 | 1434.4 | 1425.9 |
| 22.5° | 1509.8 | 1502.2 | 1494.6 | 1487.0 | 1479.3 | 1465.9 | 1446.7 | 1427.5 | 1408.3 | 1389.1 | 1378.1 |
| 25° | 1462.0 | 1451.1 | 1440.2 | 1429.3 | 1418.4 | 1401.8 | 1379.3 | 1356.8 | 1334.3 | 1311.8 | 1297.9 |
| 27.5° | 1404.4 | 1392.6 | 1380.7 | 1368.9 | 1357.0 | 1338.4 | 1313.1 | 1287.7 | 1262.4 | 1237.1 | 1220.8 |
| 30° | 1364.0 | 1351.0 | 1338.1 | 1325.1 | 1312.2 | 1292.1 | 1264.8 | 1237.6 | 1210.4 | 1183.1 | 1165.7 |
| 32.5° | 1324.7 | 1309.6 | 1294.5 | 1279.4 | 1264.2 | 1242.8 | 1215.0 | 1187.2 | 1159.4 | 1131.6 | 1111.8 |
| 35° | 1259.7 | 1242.4 | 1225.0 | 1207.6 | 1190.3 | 1166.6 | 1136.6 | 1106.7 | 1076.7 | 1046.7 | 1025.3 |
| 37.5° | 1194.8 | 1175.7 | 1156.6 | 1137.5 | 1118.5 | 1093.0 | 1061.0 | 1029.1 | 997.1 | 965.2 | 941.6 |
| 40° | 1149.4 | 1129.0 | 1108.5 | 1088.1 | 1067.7 | 1040.9 | 1007.9 | 974.9 | 941.8 | 908.8 | 884.6 |
| 42.5° | 1102.8 | 1081.3 | 1059.8 | 1038.2 | 1016.7 | 988.9 | 954.8 | 920.6 | 886.5 | 852.4 | 827.4 |
| 45° | 1029.9 | 1007.0 | 984.2 | 961.4 | 938.6 | 909.3 | 873.5 | 837.8 | 802.0 | 766.3 | 742.1 |
| 47.5° | 958.7 | 934.6 | 910.4 | 886.2 | 862.0 | 831.5 | 794.6 | 757.6 | 720.7 | 683.8 | 659.8 |
| 50° | 907.3 | 883.1 | 858.9 | 834.7 | 810.5 | 779.7 | 742.3 | 704.8 | 667.3 | 629.9 | 606.4 |
| 52.5° | 857.0 | 831.7 | 806.5 | 781.2 | 755.9 | 725.0 | 688.3 | 651.7 | 615.0 | 578.4 | 555.7 |
| 55° | 783.1 | 756.6 | 730.0 | 703.4 | 676.9 | 645.2 | 608.4 | 571.6 | 534.9 | 498.1 | 477.6 |
| 57.5° | 707.4 | 680.2 | 652.9 | 625.7 | 598.4 | 567.1 | 531.8 | 496.4 | 461.1 | 425.7 | 407.0 |
| 60° | 655.9 | 628.7 | 601.4 | 574.2 | 546.9 | 515.8 | 480.7 | 445.6 | 410.5 | 375.5 | 358.1 |
| 62.5° | 605.7 | 578.4 | 551.2 | 523.9 | 496.7 | 466.3 | 432.9 | 399.4 | 366.0 | 332.6 | 316.0 |
| 65° | 528.7 | 501.1 | 473.6 | 446.0 | 418.4 | 389.3 | 358.6 | 328.0 | 297.3 | 266.7 | 255.1 |
| 67.5° | 454.5 | 427.2 | 399.8 | 372.4 | 345.0 | 317.5 | 290.0 | 262.4 | 234.8 | 207.2 | 201.9 |
| 70° | 403.1 | 376.5 | 349.9 | 323.4 | 296.8 | 271.8 | 248.3 | 224.8 | 201.3 | 177.8 | 174.4 |
| 72.5° | 354.0 | 328.5 | 303.1 | 277.6 | 252.1 | 229.9 | 211.1 | 192.2 | 173.3 | 154.5 | 151.6 |
| 75° | 282.0 | 258.1 | 234.3 | 210.5 | 186.6 | 168.9 | 157.3 | 145.8 | 134.2 | 122.6 | 120.2 |
| 77.5° | 211.2 | 190.3 | 169.4 | 148.5 | 127.5 | 114.3 | 108.7 | 103.1 | 97.5 | 92.0 | 90.6 |
| 80° | 167.0 | 149.7 | 132.3 | 114.9 | 97.6 | 87.2 | 83.8 | 80.4 | 77.0 | 73.6 | 72.2 |
| 82.5° | 126.6 | 113.0 | 99.5 | 85.9 | 72.4 | 64.4 | 62.1 | 59.8 | 57.5 | 55.2 | 54.4 |
| 85° | 65.9 | 58.7 | 51.6 | 44.4 | 37.3 | 33.2 | 32.2 | 31.2 | 30.1 | 29.1 | 29.1 |
| 87.5° | 19.7 | 17.9 | 16.2 | 14.2 | 12.3 | 11.5 | 12.1 | 12.9 | 13.6 | 13.7 | 13.3 |
| 90° | 0.6 | 2.3 | 4.6 | 5.7 | 6.8 | 8.6 | 11.4 | 15.4 | 18.8 | 19.4 | 18.8 |
| 92.5° | 7.0 | 10.0 | 14.1 | 16.7 | 20.5 | 25.9 | 38.8 | 56.9 | 73.1 | 74.1 | 62.6 |
| 95° | 20.0 | 22.2 | 27.9 | 33.1 | 42.2 | 55.9 | 82.1 | 131.7 | 197.9 | 223.6 | 195.6 |
| 97.5° | 32.5 | 35.6 | 41.6 | 49.4 | 59.9 | 75.4 | 108.4 | 177.5 | 287.4 | 381.6 | 400.3 |
| 100° | 43.9 | 45.6 | 50.8 | 59.9 | 71.3 | 87.3 | 117.5 | 187.1 | 310.2 | 450.5 | 532.6 |
| 102.5° | 54.4 | 55.7 | 60.8 | 69.9 | 81.8 | 97.7 | 125.7 | 187.5 | 301.6 | 452.8 | 581.9 |
| 105° | 69.6 | 71.9 | 75.8 | 84.4 | 96.9 | 112.9 | 139.7 | 190.5 | 284.6 | 422.6 | 574.3 |
| 107.5° | 86.0 | 87.8 | 91.7 | 99.6 | 112.0 | 128.1 | 154.1 | 198.3 | 276.1 | 390.2 | 524.2 |
| 110° | 96.9 | 99.2 | 102.7 | 110.1 | 122.0 | 138.6 | 163.7 | 204.7 | 274.3 | 374.7 | 492.7 |



TEST NUMBER: P331746

CATALOG NUMBER: SA2XXRDIP-C1005D530U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 107.0 | 109.3 | 113.1 | 120.1 | 131.6 | 148.6 | 172.8 | 211.6 | 274.8 | 364.6 | 470.8 |
| 115° | 122.6 | 125.5 | 128.9 | 135.7 | 147.1 | 162.5 | 187.1 | 221.8 | 277.2 | 353.6 | 443.7 |
| 117.5° | 138.8 | 141.1 | 144.5 | 150.6 | 161.5 | 177.5 | 200.2 | 232.8 | 281.3 | 348.2 | 426.6 |
| 120° | 148.8 | 151.1 | 154.5 | 159.7 | 171.1 | 187.1 | 209.3 | 240.1 | 284.0 | 345.0 | 417.5 |
| 122.5° | 158.4 | 160.3 | 163.7 | 169.3 | 180.7 | 197.1 | 218.0 | 246.5 | 287.2 | 343.2 | 409.7 |
| 125° | 171.1 | 172.8 | 176.2 | 183.1 | 194.5 | 210.4 | 231.0 | 256.6 | 292.0 | 339.9 | 398.6 |
| 127.5° | 181.1 | 183.4 | 188.2 | 195.7 | 206.7 | 223.1 | 243.1 | 266.1 | 296.9 | 338.0 | 388.4 |
| 130° | 187.1 | 189.3 | 195.0 | 203.0 | 214.4 | 230.4 | 250.4 | 272.0 | 300.5 | 337.0 | 381.5 |
| 132.5° | 192.5 | 195.3 | 201.4 | 209.9 | 221.7 | 237.7 | 256.7 | 278.0 | 304.2 | 336.6 | 376.0 |
| 135° | 200.7 | 203.0 | 209.9 | 218.4 | 231.5 | 247.5 | 265.8 | 285.7 | 308.5 | 335.9 | 368.4 |
| 137.5° | 208.5 | 211.2 | 218.1 | 227.2 | 240.2 | 255.0 | 273.1 | 291.6 | 312.4 | 335.8 | 363.0 |
| 140° | 214.4 | 216.7 | 223.6 | 232.7 | 245.2 | 260.1 | 277.2 | 294.8 | 314.2 | 335.3 | 359.9 |
| 142.5° | 220.4 | 222.2 | 228.6 | 237.7 | 249.8 | 263.7 | 280.4 | 297.6 | 315.6 | 335.3 | 356.7 |
| 145° | 229.3 | 231.5 | 237.2 | 245.8 | 257.2 | 269.7 | 285.1 | 301.1 | 317.1 | 334.2 | 352.4 |
| 147.5° | 238.8 | 240.5 | 246.0 | 253.9 | 263.4 | 274.5 | 289.0 | 303.1 | 317.5 | 332.1 | 348.1 |
| 150° | 245.2 | 246.9 | 251.5 | 258.9 | 267.5 | 277.7 | 290.8 | 304.0 | 317.1 | 330.8 | 344.5 |
| 152.5° | 251.6 | 252.4 | 257.0 | 263.5 | 271.6 | 280.9 | 292.7 | 304.4 | 316.2 | 328.5 | 341.3 |
| 155° | 260.6 | 261.2 | 264.6 | 270.9 | 277.2 | 285.7 | 295.4 | 305.1 | 314.8 | 324.5 | 335.3 |
| 157.5° | 268.1 | 268.7 | 271.5 | 276.9 | 282.0 | 289.1 | 297.3 | 305.1 | 312.2 | 320.4 | 329.7 |
| 160° | 273.2 | 273.7 | 276.0 | 280.6 | 285.1 | 291.4 | 298.3 | 305.1 | 310.8 | 317.7 | 325.6 |
| 162.5° | 278.2 | 277.8 | 280.1 | 283.8 | 287.9 | 292.8 | 298.7 | 304.6 | 309.4 | 315.4 | 322.0 |
| 165° | 284.0 | 283.4 | 284.6 | 288.0 | 290.8 | 294.3 | 299.4 | 303.4 | 306.8 | 310.8 | 315.9 |
| 167.5° | 288.8 | 288.1 | 289.1 | 291.3 | 293.4 | 295.5 | 299.3 | 302.6 | 304.2 | 306.8 | 310.0 |
| 170° | 292.0 | 290.8 | 291.4 | 293.1 | 294.3 | 296.0 | 298.8 | 301.7 | 302.8 | 304.5 | 306.8 |
| 172.5° | 293.8 | 293.1 | 292.8 | 294.5 | 295.2 | 296.4 | 298.4 | 300.3 | 301.0 | 301.8 | 303.6 |
| 175° | 296.0 | 295.4 | 294.8 | 296.0 | 296.0 | 296.5 | 297.7 | 298.8 | 298.3 | 298.8 | 299.4 |
| 177.5° | 297.0 | 296.1 | 295.6 | 296.5 | 296.5 | 296.5 | 297.0 | 297.9 | 297.0 | 296.5 | 297.0 |
| 180° | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 |



TEST NUMBER: P331746

CATALOG NUMBER: SA2XXRDIP-C1005D530U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1693.4 | 1693.4 | 1693.4 | 1693.4 | 1693.4 | 1693.4 | 1693.4 | 1693.4 |
| 2.5° | 1685.4 | 1688.1 | 1690.9 | 1691.9 | 1691.4 | 1690.9 | 1690.3 | 1689.8 |
| 5° | 1672.0 | 1675.1 | 1678.1 | 1679.1 | 1678.1 | 1677.1 | 1676.1 | 1675.1 |
| 7.5° | 1644.9 | 1645.8 | 1646.7 | 1646.3 | 1644.5 | 1642.7 | 1641.0 | 1639.2 |
| 10° | 1617.8 | 1616.8 | 1615.8 | 1614.3 | 1612.2 | 1610.2 | 1608.1 | 1606.1 |
| 12.5° | 1586.8 | 1584.9 | 1583.1 | 1580.5 | 1577.1 | 1573.7 | 1570.3 | 1566.9 |
| 15° | 1528.8 | 1522.3 | 1515.8 | 1510.9 | 1507.5 | 1504.1 | 1500.7 | 1497.3 |
| 17.5° | 1463.2 | 1455.5 | 1447.8 | 1441.0 | 1435.2 | 1429.3 | 1423.4 | 1417.6 |
| 20° | 1417.4 | 1408.9 | 1400.4 | 1392.4 | 1384.9 | 1377.4 | 1369.9 | 1362.4 |
| 22.5° | 1367.2 | 1356.2 | 1345.2 | 1336.9 | 1331.4 | 1325.8 | 1320.2 | 1314.6 |
| 25° | 1283.9 | 1270.0 | 1256.0 | 1246.5 | 1241.3 | 1236.2 | 1231.1 | 1226.0 |
| 27.5° | 1204.5 | 1188.2 | 1171.9 | 1159.7 | 1151.6 | 1143.5 | 1135.4 | 1127.3 |
| 30° | 1148.4 | 1131.0 | 1113.6 | 1100.4 | 1091.2 | 1082.0 | 1072.8 | 1063.6 |
| 32.5° | 1092.0 | 1072.2 | 1052.3 | 1038.1 | 1029.5 | 1020.8 | 1012.1 | 1003.5 |
| 35° | 1003.8 | 982.4 | 960.9 | 946.4 | 938.9 | 931.4 | 923.9 | 916.5 |
| 37.5° | 917.9 | 894.3 | 870.6 | 854.5 | 846.0 | 837.4 | 828.8 | 820.2 |
| 40° | 860.4 | 836.2 | 812.1 | 795.6 | 786.7 | 777.8 | 769.0 | 760.1 |
| 42.5° | 802.4 | 777.4 | 752.4 | 735.6 | 727.0 | 718.4 | 709.9 | 701.3 |
| 45° | 717.9 | 693.7 | 669.5 | 653.4 | 645.2 | 637.0 | 628.8 | 620.7 |
| 47.5° | 635.7 | 611.7 | 587.6 | 571.9 | 564.5 | 557.1 | 549.6 | 542.2 |
| 50° | 582.9 | 559.4 | 535.9 | 520.5 | 513.4 | 506.2 | 499.1 | 491.9 |
| 52.5° | 533.0 | 510.3 | 487.7 | 473.0 | 466.4 | 459.8 | 453.2 | 446.6 |
| 55° | 457.2 | 436.8 | 416.3 | 402.9 | 396.4 | 389.9 | 383.5 | 377.0 |
| 57.5° | 388.3 | 369.5 | 350.8 | 338.7 | 333.3 | 327.8 | 322.4 | 316.9 |
| 60° | 340.7 | 323.4 | 306.0 | 294.6 | 289.1 | 283.7 | 278.2 | 272.8 |
| 62.5° | 299.5 | 282.9 | 266.4 | 256.4 | 253.2 | 249.9 | 246.6 | 243.4 |
| 65° | 243.5 | 231.9 | 220.3 | 214.0 | 213.0 | 212.0 | 211.0 | 210.0 |
| 67.5° | 196.6 | 191.3 | 185.9 | 182.7 | 181.7 | 180.6 | 179.5 | 178.4 |
| 70° | 171.0 | 167.6 | 164.2 | 161.8 | 160.4 | 159.0 | 157.7 | 156.3 |
| 72.5° | 148.8 | 145.9 | 143.0 | 141.2 | 140.4 | 139.6 | 138.7 | 137.9 |
| 75° | 117.8 | 115.5 | 113.1 | 111.7 | 111.4 | 111.0 | 110.7 | 110.3 |
| 77.5° | 89.2 | 87.9 | 86.5 | 85.5 | 85.0 | 84.5 | 83.9 | 83.4 |
| 80° | 70.8 | 69.5 | 68.1 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 |
| 82.5° | 53.5 | 52.7 | 51.9 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 |
| 85° | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 |
| 87.5° | 12.9 | 12.4 | 12.4 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 |
| 90° | 18.2 | 17.1 | 18.2 | 18.8 | 18.8 | 18.8 | 18.8 | 18.8 |
| 92.5° | 49.7 | 42.7 | 37.9 | 34.3 | 33.9 | 32.1 | 32.5 | 31.6 |
| 95° | 149.4 | 114.6 | 90.7 | 78.1 | 70.7 | 66.2 | 64.4 | 65.0 |
| 97.5° | 348.7 | 285.3 | 223.6 | 182.4 | 155.1 | 141.1 | 132.8 | 128.0 |
| 100° | 520.7 | 450.0 | 371.8 | 302.8 | 255.5 | 231.0 | 214.4 | 204.2 |
| 102.5° | 633.4 | 617.4 | 560.3 | 487.1 | 435.7 | 393.8 | 373.2 | 359.3 |
| 105° | 692.9 | 757.3 | 764.8 | 745.9 | 710.6 | 675.2 | 650.7 | 642.7 |
| 107.5° | 650.0 | 747.1 | 806.4 | 834.0 | 838.4 | 836.5 | 831.6 | 821.0 |
| 110° | 613.1 | 715.1 | 788.1 | 834.9 | 859.4 | 870.3 | 875.4 | 874.8 |



TEST NUMBER: P331746

CATALOG NUMBER: SA2XXRDIP-C1005D530U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 579.3 | 677.3 | 755.3 | 808.9 | 843.0 | 861.1 | 870.8 | 873.9 |
| 115° | 537.8 | 625.6 | 700.3 | 759.1 | 799.5 | 825.8 | 840.6 | 845.7 |
| 117.5° | 506.5 | 583.6 | 651.4 | 706.5 | 747.8 | 775.5 | 791.1 | 795.4 |
| 120° | 491.0 | 561.7 | 622.2 | 674.1 | 714.0 | 740.8 | 757.3 | 763.0 |
| 122.5° | 478.7 | 543.5 | 600.7 | 647.6 | 683.4 | 709.8 | 724.5 | 729.3 |
| 125° | 460.8 | 519.5 | 569.7 | 612.5 | 645.6 | 667.2 | 681.5 | 686.1 |
| 127.5° | 443.1 | 496.3 | 543.6 | 583.1 | 611.9 | 632.2 | 644.5 | 648.2 |
| 130° | 431.7 | 480.8 | 525.8 | 563.4 | 591.4 | 610.8 | 622.2 | 626.7 |
| 132.5° | 420.8 | 466.2 | 507.6 | 542.9 | 570.4 | 589.8 | 600.3 | 604.4 |
| 135° | 405.5 | 443.1 | 480.8 | 512.7 | 537.2 | 556.0 | 566.3 | 568.6 |
| 137.5° | 393.3 | 424.8 | 454.6 | 482.5 | 504.8 | 521.0 | 530.0 | 533.4 |
| 140° | 385.5 | 412.9 | 439.1 | 464.2 | 482.5 | 497.3 | 505.8 | 509.3 |
| 142.5° | 379.1 | 402.4 | 425.0 | 446.0 | 463.3 | 476.8 | 484.4 | 485.1 |
| 145° | 370.1 | 388.9 | 406.6 | 423.2 | 436.8 | 446.5 | 452.2 | 453.9 |
| 147.5° | 363.2 | 378.0 | 391.8 | 403.9 | 415.2 | 422.9 | 426.8 | 427.8 |
| 150° | 358.1 | 370.7 | 382.7 | 392.9 | 401.5 | 408.3 | 411.7 | 412.3 |
| 152.5° | 353.1 | 364.8 | 374.9 | 383.8 | 390.5 | 396.5 | 399.0 | 399.1 |
| 155° | 346.2 | 355.3 | 363.8 | 370.1 | 376.4 | 380.4 | 382.7 | 381.5 |
| 157.5° | 338.1 | 345.7 | 352.9 | 357.8 | 362.2 | 365.6 | 366.6 | 366.6 |
| 160° | 333.0 | 339.3 | 345.6 | 349.6 | 353.6 | 356.4 | 357.0 | 357.0 |
| 162.5° | 328.0 | 333.4 | 338.8 | 341.8 | 345.8 | 347.8 | 348.3 | 347.9 |
| 165° | 320.5 | 324.5 | 328.5 | 330.8 | 333.0 | 335.3 | 335.3 | 334.8 |
| 167.5° | 313.3 | 316.4 | 319.1 | 321.2 | 322.2 | 323.5 | 323.4 | 322.7 |
| 170° | 309.7 | 311.4 | 313.7 | 314.8 | 315.4 | 317.1 | 316.5 | 315.4 |
| 172.5° | 305.6 | 306.8 | 308.6 | 309.3 | 309.9 | 310.7 | 310.1 | 309.4 |
| 175° | 301.1 | 301.7 | 302.3 | 302.8 | 302.8 | 303.4 | 302.8 | 301.7 |
| 177.5° | 297.9 | 297.9 | 298.4 | 298.4 | 298.4 | 298.4 | 297.9 | 297.0 |
| 180° | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 | 296.5 |

(END OF REPORT)