

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: P332370-935

Luminaire Tested: **S123RDIP-S1165D585U935-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332370-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S1165D585U935-4F0-1E-UDD-F1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 585 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5503.9 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.06 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Semi-Direct

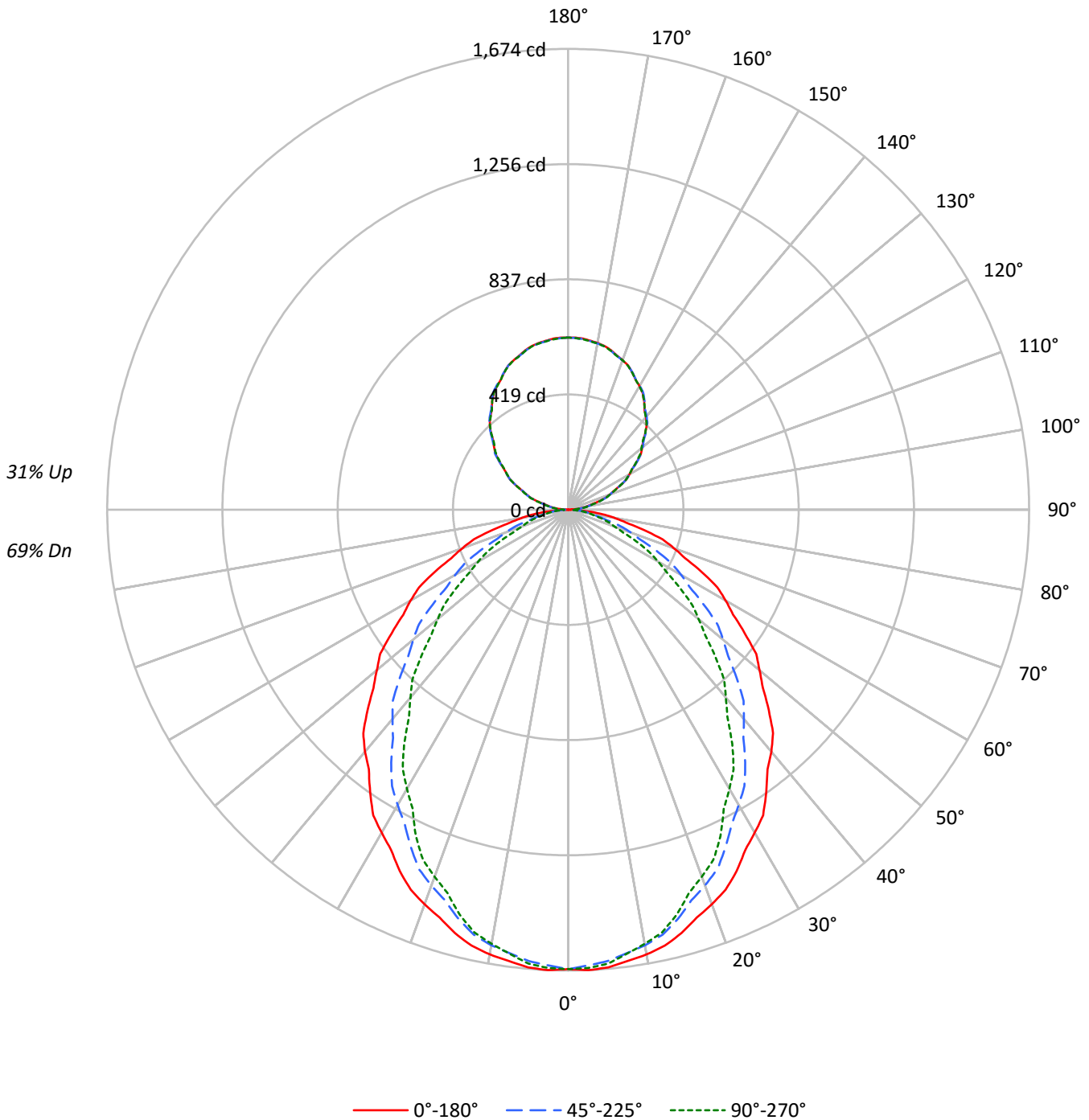
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332370-935

CATALOG NUMBER: S123RDIP-S1165D585U935-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332370-935

CATALOG NUMBER: S123RDIP-S1165D585U935-4F0-1E-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 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 105 | 94 | 94 | 94 | 83 | 83 | 83 | 73 | 73 | 73 | 69 |
| 1 | 102 | 98 | 94 | 91 | 97 | 93 | 89 | 86 | 83 | 80 | 78 | 74 | 72 | 70 | 65 | 64 | 63 | 59 |
| 2 | 94 | 86 | 80 | 75 | 88 | 82 | 76 | 72 | 73 | 69 | 65 | 65 | 62 | 59 | 58 | 56 | 53 | 50 |
| 3 | 86 | 76 | 69 | 63 | 81 | 72 | 66 | 60 | 65 | 60 | 55 | 58 | 54 | 51 | 52 | 49 | 46 | 43 |
| 4 | 79 | 68 | 60 | 54 | 74 | 64 | 57 | 52 | 58 | 52 | 48 | 52 | 48 | 44 | 47 | 43 | 40 | 37 |
| 5 | 72 | 61 | 53 | 46 | 68 | 58 | 50 | 45 | 52 | 46 | 42 | 47 | 42 | 38 | 42 | 38 | 35 | 32 |
| 6 | 67 | 55 | 47 | 41 | 63 | 52 | 45 | 39 | 47 | 41 | 37 | 43 | 38 | 34 | 38 | 34 | 31 | 29 |
| 7 | 62 | 50 | 42 | 36 | 59 | 47 | 40 | 35 | 43 | 37 | 32 | 39 | 34 | 30 | 35 | 31 | 28 | 26 |
| 8 | 58 | 45 | 37 | 32 | 55 | 43 | 36 | 31 | 39 | 33 | 29 | 36 | 31 | 27 | 32 | 28 | 25 | 23 |
| 9 | 54 | 42 | 34 | 29 | 51 | 40 | 33 | 28 | 36 | 30 | 26 | 33 | 28 | 24 | 30 | 26 | 23 | 21 |
| 10 | 51 | 38 | 31 | 26 | 48 | 37 | 30 | 25 | 34 | 28 | 24 | 31 | 26 | 22 | 28 | 24 | 21 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 17963 | 17963 | 17963 |
| 5° | 18031 | 17782 | 17884 |
| 10° | 17930 | 17559 | 17500 |
| 15° | 17736 | 17149 | 16967 |
| 20° | 17472 | 16635 | 16247 |
| 25° | 17199 | 16057 | 15543 |
| 30° | 16839 | 15392 | 14551 |
| 35° | 16469 | 14725 | 13641 |
| 40° | 16127 | 13939 | 12513 |
| 45° | 15678 | 13164 | 11496 |
| 50° | 15185 | 12285 | 10357 |
| 55° | 14681 | 11277 | 9295 |
| 60° | 14219 | 10198 | 8129 |
| 65° | 13616 | 9032 | 6963 |
| 70° | 12862 | 7582 | 5624 |
| 75° | 11761 | 5964 | 5294 |
| 80° | 10488 | 5281 | 4866 |
| 85° | 8855 | 4681 | 4347 |



TEST NUMBER: P332370-935

CATALOG NUMBER: S123RDIP-S1165D585U935-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 156.7 | 2.8 |
| 10°-20° | 436.0 | 7.9 |
| 20°-30° | 627.8 | 11.4 |
| 30°-40° | 707.2 | 12.8 |
| 40°-50° | 676.5 | 12.3 |
| 50°-60° | 554.0 | 10.1 |
| 60°-70° | 373.8 | 6.8 |
| 70°-80° | 188.1 | 3.4 |
| 80°-90° | 51.6 | 0.9 |
| 90°-100° | 40.7 | 0.7 |
| 100°-110° | 121.9 | 2.2 |
| 110°-120° | 207.3 | 3.8 |
| 120°-130° | 272.7 | 5.0 |
| 130°-140° | 306.5 | 5.6 |
| 140°-150° | 301.3 | 5.5 |
| 150°-160° | 253.7 | 4.6 |
| 160°-170° | 168.9 | 3.1 |
| 170°-180° | 59.1 | 1.1 |
| 0°-30° | 1220.5 | 22.2 |
| 0°-40° | 1927.7 | 35.0 |
| 0°-60° | 3158.3 | 57.4 |
| 0°-90° | 3771.7 | 68.5 |
| 90°-120° | 370.0 | 6.7 |
| 90°-150° | 1250.5 | 22.7 |
| 90°-180° | 1732.0 | 31.5 |
| 0°-180° | 5503.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1669 | 1669 | 1669 | 1669 | 1669 | |
| 5° | 1669 | 1662 | 1646 | 1657 | 1655 | 158 |
| 15° | 1592 | 1575 | 1539 | 1532 | 1523 | 448 |
| 25° | 1448 | 1413 | 1352 | 1324 | 1309 | 666 |
| 35° | 1253 | 1203 | 1121 | 1064 | 1038 | 784 |
| 45° | 1030 | 967 | 865 | 790 | 755 | 794 |
| 55° | 782 | 713 | 601 | 525 | 495 | 701 |
| 65° | 535 | 458 | 355 | 291 | 273 | 529 |
| 75° | 283 | 217 | 143 | 131 | 127 | 302 |
| 85° | 72 | 43 | 38 | 35 | 35 | 81 |
| 90° | 0 | 5 | 12 | 14 | 15 | 5 |
| 95° | 29 | 32 | 36 | 38 | 38 | 33 |
| 105° | 110 | 112 | 116 | 116 | 117 | 118 |
| 115° | 209 | 210 | 209 | 210 | 209 | 206 |
| 125° | 306 | 307 | 306 | 304 | 302 | 272 |
| 135° | 396 | 399 | 399 | 397 | 396 | 305 |
| 145° | 481 | 482 | 483 | 483 | 481 | 300 |
| 155° | 550 | 551 | 551 | 553 | 550 | 253 |
| 165° | 600 | 598 | 598 | 601 | 598 | 169 |
| 175° | 624 | 622 | 622 | 624 | 621 | 59 |
| 180° | 625 | 625 | 625 | 625 | 625 | |



TEST NUMBER: P332370-935

CATALOG NUMBER: S123RDIP-S1165D585U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 |
| 2.5° | 1674.2 | 1673.2 | 1672.2 | 1671.3 | 1670.3 | 1668.4 | 1665.5 | 1662.6 | 1659.7 | 1656.8 | 1659.5 |
| 5° | 1668.8 | 1667.2 | 1665.8 | 1664.2 | 1662.8 | 1660.2 | 1656.6 | 1652.9 | 1649.3 | 1645.7 | 1648.5 |
| 7.5° | 1653.3 | 1651.7 | 1650.1 | 1648.5 | 1646.8 | 1643.6 | 1639.0 | 1634.3 | 1629.6 | 1624.9 | 1626.4 |
| 10° | 1640.4 | 1638.2 | 1636.2 | 1634.0 | 1631.9 | 1628.2 | 1622.7 | 1617.3 | 1611.9 | 1606.5 | 1606.8 |
| 12.5° | 1622.0 | 1619.6 | 1617.2 | 1614.9 | 1612.6 | 1608.1 | 1601.5 | 1594.8 | 1588.2 | 1581.6 | 1581.4 |
| 15° | 1591.6 | 1588.3 | 1585.0 | 1581.7 | 1578.4 | 1572.5 | 1564.1 | 1555.7 | 1547.2 | 1538.9 | 1537.3 |
| 17.5° | 1553.4 | 1549.6 | 1545.8 | 1541.9 | 1538.1 | 1530.8 | 1520.1 | 1509.3 | 1498.7 | 1488.0 | 1484.8 |
| 20° | 1525.3 | 1520.5 | 1515.7 | 1510.9 | 1506.1 | 1498.0 | 1486.5 | 1475.1 | 1463.6 | 1452.2 | 1448.3 |
| 22.5° | 1493.9 | 1488.3 | 1482.8 | 1477.3 | 1471.8 | 1462.9 | 1450.8 | 1438.6 | 1426.5 | 1414.3 | 1409.5 |
| 25° | 1448.1 | 1440.6 | 1433.1 | 1425.6 | 1418.1 | 1407.4 | 1393.5 | 1379.8 | 1365.9 | 1352.0 | 1345.7 |
| 27.5° | 1392.7 | 1384.4 | 1376.1 | 1367.8 | 1359.4 | 1347.6 | 1332.2 | 1316.8 | 1301.4 | 1286.0 | 1277.2 |
| 30° | 1354.8 | 1345.7 | 1336.7 | 1327.7 | 1318.7 | 1305.7 | 1288.9 | 1272.0 | 1255.3 | 1238.4 | 1228.1 |
| 32.5° | 1316.9 | 1306.7 | 1296.4 | 1286.2 | 1276.0 | 1262.0 | 1244.1 | 1226.3 | 1208.5 | 1190.8 | 1179.6 |
| 35° | 1253.3 | 1242.4 | 1231.6 | 1220.8 | 1210.0 | 1195.2 | 1176.6 | 1158.0 | 1139.3 | 1120.6 | 1107.7 |
| 37.5° | 1188.9 | 1176.8 | 1164.8 | 1152.7 | 1140.7 | 1124.7 | 1104.8 | 1084.9 | 1065.1 | 1045.1 | 1030.4 |
| 40° | 1147.7 | 1134.5 | 1121.2 | 1108.0 | 1094.8 | 1077.5 | 1056.1 | 1034.7 | 1013.4 | 992.0 | 976.4 |
| 42.5° | 1101.1 | 1087.9 | 1074.7 | 1061.4 | 1048.2 | 1030.5 | 1008.5 | 986.4 | 964.3 | 942.3 | 925.1 |
| 45° | 1029.9 | 1016.4 | 1002.9 | 989.4 | 975.8 | 957.4 | 934.3 | 911.1 | 887.9 | 864.8 | 847.7 |
| 47.5° | 958.7 | 943.9 | 929.0 | 914.2 | 899.3 | 880.3 | 857.1 | 834.0 | 810.8 | 787.7 | 769.0 |
| 50° | 906.8 | 892.7 | 878.5 | 864.4 | 850.2 | 831.0 | 806.7 | 782.3 | 757.9 | 733.6 | 714.9 |
| 52.5° | 860.2 | 844.9 | 829.6 | 814.2 | 798.8 | 779.1 | 755.0 | 730.9 | 706.8 | 682.7 | 663.3 |
| 55° | 782.3 | 767.5 | 752.8 | 738.0 | 723.3 | 703.2 | 677.6 | 652.0 | 626.5 | 600.9 | 583.5 |
| 57.5° | 710.2 | 694.2 | 678.1 | 662.1 | 646.0 | 625.2 | 599.5 | 573.8 | 548.1 | 522.5 | 505.9 |
| 60° | 660.5 | 643.9 | 627.4 | 610.9 | 594.3 | 573.5 | 548.5 | 523.7 | 498.7 | 473.7 | 457.4 |
| 62.5° | 610.6 | 594.1 | 577.6 | 561.0 | 544.5 | 523.7 | 498.8 | 473.8 | 448.8 | 423.9 | 408.6 |
| 65° | 534.6 | 518.1 | 501.5 | 485.0 | 468.5 | 448.4 | 425.0 | 401.5 | 378.1 | 354.6 | 339.8 |
| 67.5° | 458.6 | 441.8 | 425.1 | 408.4 | 391.7 | 372.0 | 349.6 | 327.0 | 304.5 | 282.1 | 271.0 |
| 70° | 408.7 | 392.5 | 376.3 | 360.0 | 343.8 | 325.1 | 304.1 | 283.0 | 262.0 | 240.9 | 230.4 |
| 72.5° | 359.0 | 342.9 | 326.9 | 310.9 | 294.9 | 277.3 | 258.2 | 239.1 | 220.0 | 200.9 | 192.3 |
| 75° | 282.8 | 268.5 | 254.0 | 239.5 | 225.2 | 209.7 | 193.1 | 176.5 | 160.0 | 143.4 | 140.4 |
| 77.5° | 213.5 | 200.5 | 187.4 | 174.4 | 161.4 | 149.5 | 138.9 | 128.2 | 117.5 | 106.9 | 105.3 |
| 80° | 169.2 | 156.9 | 144.5 | 132.2 | 119.9 | 110.6 | 104.2 | 97.9 | 91.6 | 85.2 | 84.4 |
| 82.5° | 126.9 | 116.3 | 105.6 | 95.0 | 84.4 | 77.6 | 74.6 | 71.6 | 68.7 | 65.8 | 64.8 |
| 85° | 71.7 | 65.1 | 58.5 | 51.9 | 45.3 | 41.5 | 40.6 | 39.7 | 38.8 | 37.9 | 37.3 |
| 87.5° | 26.1 | 23.7 | 21.3 | 18.8 | 16.4 | 15.3 | 15.6 | 15.8 | 16.2 | 16.4 | 16.3 |
| 90° | 0.5 | 1.5 | 2.7 | 3.8 | 4.8 | 6.1 | 7.5 | 9.0 | 10.3 | 11.8 | 12.2 |
| 92.5° | 11.9 | 12.7 | 13.3 | 14.1 | 14.9 | 15.7 | 16.4 | 17.2 | 18.1 | 18.9 | 19.2 |
| 95° | 29.0 | 29.7 | 30.5 | 31.3 | 32.0 | 32.9 | 33.8 | 34.6 | 35.5 | 36.3 | 36.8 |
| 97.5° | 51.5 | 52.0 | 52.6 | 53.2 | 53.7 | 54.3 | 54.9 | 55.6 | 56.2 | 56.9 | 57.3 |
| 100° | 66.8 | 67.4 | 68.1 | 68.8 | 69.4 | 70.0 | 70.5 | 71.1 | 71.6 | 72.2 | 72.5 |
| 102.5° | 84.5 | 84.9 | 85.2 | 85.7 | 86.0 | 86.6 | 87.3 | 88.1 | 88.8 | 89.5 | 89.8 |
| 105° | 110.5 | 110.7 | 110.9 | 111.2 | 111.4 | 111.9 | 113.0 | 113.9 | 114.9 | 115.9 | 115.9 |
| 107.5° | 140.8 | 140.9 | 141.0 | 141.1 | 141.3 | 141.5 | 141.9 | 142.3 | 142.8 | 143.1 | 143.4 |
| 110° | 159.6 | 159.8 | 160.1 | 160.2 | 160.5 | 160.7 | 160.9 | 161.2 | 161.4 | 161.6 | 162.0 |



TEST NUMBER: P332370-935

CATALOG NUMBER: S123RDIP-S1165D585U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 179.3 | 179.3 | 179.5 | 179.6 | 179.8 | 179.9 | 179.9 | 179.9 | 180.0 | 180.0 | 180.6 |
| 115° | 208.7 | 209.1 | 209.4 | 209.7 | 210.0 | 210.1 | 209.8 | 209.7 | 209.4 | 209.2 | 209.3 |
| 117.5° | 238.4 | 238.6 | 238.8 | 239.0 | 239.3 | 239.2 | 238.9 | 238.7 | 238.4 | 238.1 | 238.1 |
| 120° | 256.8 | 257.5 | 258.1 | 258.8 | 259.5 | 259.5 | 259.0 | 258.5 | 257.9 | 257.4 | 257.3 |
| 122.5° | 276.1 | 276.6 | 277.1 | 277.5 | 278.0 | 278.1 | 277.8 | 277.6 | 277.2 | 277.0 | 276.7 |
| 125° | 305.5 | 305.8 | 306.1 | 306.4 | 306.8 | 306.9 | 306.6 | 306.4 | 306.2 | 306.0 | 305.5 |
| 127.5° | 332.6 | 333.3 | 334.0 | 334.7 | 335.4 | 335.6 | 335.4 | 335.1 | 334.8 | 334.7 | 334.1 |
| 130° | 350.7 | 351.5 | 352.4 | 353.3 | 354.1 | 354.4 | 354.1 | 353.8 | 353.4 | 353.1 | 352.7 |
| 132.5° | 368.7 | 369.6 | 370.5 | 371.3 | 372.2 | 372.6 | 372.3 | 372.0 | 371.8 | 371.6 | 371.0 |
| 135° | 396.3 | 397.0 | 397.6 | 398.3 | 398.9 | 399.2 | 399.1 | 399.0 | 398.9 | 398.8 | 398.4 |
| 137.5° | 421.9 | 422.4 | 422.9 | 423.5 | 424.0 | 424.5 | 424.7 | 425.0 | 425.3 | 425.6 | 425.2 |
| 140° | 439.5 | 440.1 | 440.7 | 441.2 | 441.7 | 442.0 | 442.1 | 442.3 | 442.4 | 442.5 | 442.4 |
| 142.5° | 455.6 | 456.2 | 456.8 | 457.3 | 457.8 | 458.2 | 458.4 | 458.6 | 458.8 | 459.0 | 458.9 |
| 145° | 480.8 | 481.0 | 481.2 | 481.5 | 481.6 | 481.9 | 482.2 | 482.6 | 482.9 | 483.3 | 483.1 |
| 147.5° | 502.8 | 503.2 | 503.6 | 503.9 | 504.4 | 504.7 | 505.1 | 505.3 | 505.7 | 505.9 | 505.9 |
| 150° | 518.1 | 518.3 | 518.6 | 518.8 | 519.0 | 519.2 | 519.4 | 519.6 | 519.9 | 520.0 | 520.0 |
| 152.5° | 530.7 | 531.0 | 531.3 | 531.6 | 531.9 | 532.1 | 532.3 | 532.4 | 532.5 | 532.6 | 532.8 |
| 155° | 550.5 | 550.5 | 550.5 | 550.5 | 550.5 | 550.6 | 550.7 | 550.8 | 551.0 | 551.0 | 551.5 |
| 157.5° | 567.4 | 567.3 | 567.1 | 567.1 | 566.9 | 566.9 | 567.0 | 567.1 | 567.1 | 567.2 | 567.7 |
| 160° | 578.0 | 577.8 | 577.6 | 577.4 | 577.1 | 577.0 | 577.0 | 577.0 | 577.0 | 577.0 | 577.6 |
| 162.5° | 587.5 | 587.1 | 586.9 | 586.5 | 586.3 | 586.2 | 586.3 | 586.3 | 586.4 | 586.5 | 587.0 |
| 165° | 599.6 | 599.3 | 599.0 | 598.7 | 598.3 | 598.1 | 598.1 | 598.1 | 598.1 | 598.1 | 598.8 |
| 167.5° | 609.3 | 608.9 | 608.5 | 608.0 | 607.6 | 607.4 | 607.5 | 607.6 | 607.7 | 607.8 | 608.5 |
| 170° | 614.8 | 614.4 | 614.0 | 613.5 | 613.1 | 612.9 | 612.9 | 612.9 | 612.9 | 612.9 | 613.6 |
| 172.5° | 619.1 | 618.7 | 618.3 | 617.9 | 617.4 | 617.3 | 617.3 | 617.3 | 617.3 | 617.3 | 617.9 |
| 175° | 623.7 | 623.3 | 622.8 | 622.4 | 622.0 | 621.7 | 621.7 | 621.7 | 621.7 | 621.7 | 622.4 |
| 177.5° | 625.6 | 625.3 | 624.9 | 624.5 | 624.1 | 624.0 | 624.0 | 624.0 | 624.0 | 624.0 | 624.5 |
| 180° | 625.2 | 625.2 | 625.2 | 625.2 | 625.2 | 625.2 | 625.2 | 625.2 | 625.2 | 625.2 | 625.2 |



TEST NUMBER: P332370-935

CATALOG NUMBER: S123RDIP-S1165D585U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 | 1668.8 |
| 2.5° | 1662.2 | 1664.8 | 1667.4 | 1668.5 | 1668.0 | 1667.6 | 1667.1 | 1666.6 |
| 5° | 1651.1 | 1653.9 | 1656.6 | 1657.6 | 1657.0 | 1656.4 | 1655.8 | 1655.2 |
| 7.5° | 1627.9 | 1629.4 | 1630.9 | 1631.2 | 1630.1 | 1629.1 | 1628.1 | 1627.0 |
| 10° | 1607.1 | 1607.4 | 1607.7 | 1607.1 | 1605.6 | 1604.1 | 1602.6 | 1601.1 |
| 12.5° | 1581.2 | 1581.1 | 1580.9 | 1579.9 | 1578.2 | 1576.4 | 1574.7 | 1573.0 |
| 15° | 1535.9 | 1534.3 | 1532.8 | 1531.0 | 1528.9 | 1526.8 | 1524.7 | 1522.6 |
| 17.5° | 1481.6 | 1478.3 | 1475.2 | 1472.1 | 1468.9 | 1465.8 | 1462.7 | 1459.5 |
| 20° | 1444.4 | 1440.5 | 1436.6 | 1432.8 | 1429.2 | 1425.6 | 1422.0 | 1418.4 |
| 22.5° | 1404.5 | 1399.7 | 1394.8 | 1390.7 | 1387.3 | 1384.0 | 1380.6 | 1377.3 |
| 25° | 1339.5 | 1333.1 | 1326.8 | 1322.0 | 1318.7 | 1315.3 | 1312.1 | 1308.7 |
| 27.5° | 1268.4 | 1259.6 | 1250.9 | 1244.0 | 1238.9 | 1233.9 | 1228.8 | 1223.7 |
| 30° | 1217.9 | 1207.7 | 1197.5 | 1190.0 | 1185.2 | 1180.3 | 1175.5 | 1170.7 |
| 32.5° | 1168.4 | 1157.2 | 1146.0 | 1137.9 | 1132.8 | 1127.7 | 1122.7 | 1117.7 |
| 35° | 1094.8 | 1081.8 | 1068.9 | 1059.7 | 1054.3 | 1048.9 | 1043.4 | 1038.1 |
| 37.5° | 1015.7 | 1001.1 | 986.4 | 975.7 | 969.1 | 962.3 | 955.7 | 949.0 |
| 40° | 960.8 | 945.1 | 929.5 | 918.3 | 911.3 | 904.4 | 897.5 | 890.5 |
| 42.5° | 908.1 | 891.0 | 873.9 | 862.3 | 856.1 | 849.9 | 843.7 | 837.5 |
| 45° | 830.5 | 813.4 | 796.3 | 784.1 | 776.9 | 769.6 | 762.4 | 755.2 |
| 47.5° | 750.4 | 731.8 | 713.1 | 700.6 | 694.1 | 687.7 | 681.2 | 674.9 |
| 50° | 696.3 | 677.6 | 658.9 | 646.2 | 639.3 | 632.3 | 625.4 | 618.5 |
| 52.5° | 643.9 | 624.6 | 605.2 | 592.4 | 586.2 | 580.1 | 573.9 | 567.7 |
| 55° | 566.0 | 548.5 | 531.2 | 519.4 | 513.4 | 507.4 | 501.4 | 495.3 |
| 57.5° | 489.5 | 472.9 | 456.5 | 445.7 | 440.6 | 435.5 | 430.3 | 425.2 |
| 60° | 441.2 | 425.0 | 408.7 | 398.0 | 393.0 | 387.8 | 382.7 | 377.6 |
| 62.5° | 393.3 | 378.1 | 362.7 | 352.5 | 347.1 | 341.7 | 336.4 | 331.1 |
| 65° | 325.1 | 310.4 | 295.7 | 286.6 | 283.4 | 280.0 | 276.7 | 273.4 |
| 67.5° | 260.0 | 249.0 | 238.0 | 230.7 | 227.2 | 223.6 | 220.1 | 216.5 |
| 70° | 219.8 | 209.3 | 198.8 | 191.9 | 188.6 | 185.3 | 181.9 | 178.7 |
| 72.5° | 183.7 | 175.0 | 166.4 | 161.4 | 160.1 | 158.7 | 157.3 | 155.9 |
| 75° | 137.4 | 134.4 | 131.4 | 129.7 | 129.1 | 128.5 | 127.9 | 127.3 |
| 77.5° | 103.7 | 102.0 | 100.4 | 99.3 | 98.7 | 98.1 | 97.5 | 96.9 |
| 80° | 83.4 | 82.6 | 81.6 | 80.9 | 80.3 | 79.7 | 79.1 | 78.5 |
| 82.5° | 64.0 | 63.1 | 62.2 | 61.6 | 61.6 | 61.4 | 61.3 | 61.2 |
| 85° | 36.7 | 36.1 | 35.5 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 |
| 87.5° | 16.1 | 16.0 | 15.8 | 15.7 | 15.4 | 15.2 | 15.1 | 14.9 |
| 90° | 12.7 | 13.1 | 13.5 | 13.9 | 14.1 | 14.3 | 14.6 | 14.7 |
| 92.5° | 19.5 | 19.9 | 20.2 | 20.4 | 20.2 | 20.1 | 20.0 | 19.8 |
| 95° | 37.2 | 37.6 | 38.1 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 |
| 97.5° | 57.9 | 58.4 | 58.9 | 59.1 | 59.1 | 59.0 | 59.0 | 58.9 |
| 100° | 72.8 | 73.2 | 73.5 | 73.8 | 74.0 | 74.2 | 74.4 | 74.6 |
| 102.5° | 90.1 | 90.5 | 90.7 | 90.9 | 90.9 | 90.8 | 90.8 | 90.7 |
| 105° | 115.9 | 115.9 | 115.9 | 116.0 | 116.2 | 116.4 | 116.7 | 116.9 |
| 107.5° | 143.8 | 144.1 | 144.5 | 144.6 | 144.5 | 144.4 | 144.2 | 144.1 |
| 110° | 162.5 | 162.9 | 163.3 | 163.4 | 163.2 | 163.0 | 162.8 | 162.6 |



TEST NUMBER: P332370-935

CATALOG NUMBER: S123RDIP-S1165D585U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 181.1 | 181.6 | 182.1 | 182.4 | 182.4 | 182.3 | 182.3 | 182.2 |
| 115° | 209.4 | 209.6 | 209.7 | 209.7 | 209.6 | 209.4 | 209.3 | 209.2 |
| 117.5° | 238.1 | 238.0 | 238.0 | 237.8 | 237.5 | 237.2 | 236.9 | 236.6 |
| 120° | 257.1 | 257.0 | 256.9 | 256.8 | 256.5 | 256.3 | 256.1 | 255.9 |
| 122.5° | 276.4 | 276.1 | 275.9 | 275.5 | 275.3 | 274.9 | 274.7 | 274.3 |
| 125° | 305.1 | 304.6 | 304.2 | 303.8 | 303.3 | 302.9 | 302.5 | 302.0 |
| 127.5° | 333.4 | 332.8 | 332.2 | 331.7 | 331.1 | 330.6 | 330.1 | 329.6 |
| 130° | 352.2 | 351.8 | 351.4 | 350.8 | 350.0 | 349.2 | 348.4 | 347.7 |
| 132.5° | 370.5 | 370.0 | 369.5 | 368.9 | 368.3 | 367.7 | 367.1 | 366.5 |
| 135° | 397.9 | 397.4 | 397.0 | 396.7 | 396.5 | 396.2 | 396.1 | 395.8 |
| 137.5° | 424.6 | 424.2 | 423.8 | 423.4 | 422.9 | 422.5 | 422.1 | 421.6 |
| 140° | 442.3 | 442.1 | 442.0 | 441.6 | 440.8 | 440.1 | 439.3 | 438.6 |
| 142.5° | 458.7 | 458.7 | 458.6 | 458.2 | 457.6 | 457.0 | 456.4 | 455.8 |
| 145° | 483.0 | 482.9 | 482.8 | 482.5 | 482.1 | 481.6 | 481.2 | 480.8 |
| 147.5° | 505.9 | 505.9 | 505.9 | 505.6 | 505.0 | 504.3 | 503.7 | 503.0 |
| 150° | 520.0 | 520.0 | 520.0 | 519.8 | 519.1 | 518.4 | 517.8 | 517.1 |
| 152.5° | 533.0 | 533.2 | 533.4 | 533.1 | 532.6 | 532.0 | 531.5 | 530.9 |
| 155° | 551.9 | 552.3 | 552.8 | 552.6 | 551.8 | 551.0 | 550.4 | 549.6 |
| 157.5° | 568.2 | 568.6 | 569.0 | 568.9 | 568.3 | 567.7 | 567.1 | 566.5 |
| 160° | 578.2 | 578.7 | 579.2 | 579.3 | 578.9 | 578.4 | 578.0 | 577.6 |
| 162.5° | 587.5 | 588.1 | 588.7 | 588.6 | 587.9 | 587.2 | 586.5 | 585.8 |
| 165° | 599.5 | 600.1 | 600.8 | 600.7 | 599.9 | 599.2 | 598.5 | 597.7 |
| 167.5° | 609.2 | 609.8 | 610.5 | 610.5 | 609.8 | 609.2 | 608.5 | 607.8 |
| 170° | 614.4 | 615.2 | 616.0 | 616.0 | 615.2 | 614.4 | 613.6 | 612.9 |
| 172.5° | 618.5 | 619.2 | 619.9 | 619.9 | 619.1 | 618.4 | 617.6 | 616.8 |
| 175° | 623.0 | 623.7 | 624.4 | 624.3 | 623.5 | 622.8 | 622.0 | 621.2 |
| 177.5° | 625.1 | 625.6 | 626.1 | 626.0 | 625.4 | 624.8 | 624.2 | 623.6 |
| 180° | 625.2 | 625.2 | 625.2 | 625.2 | 625.2 | 625.2 | 625.2 | 625.2 |

(END OF REPORT)