

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: P332388-927

Luminaire Tested: **S123RDIP-S1165D1195U927-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332388-927
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-S1165D1195U927-4F0-1E-UDD-F1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6718.4 lumens
Efficiency: N/A
Efficacy: 93.7 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: General Diffuse

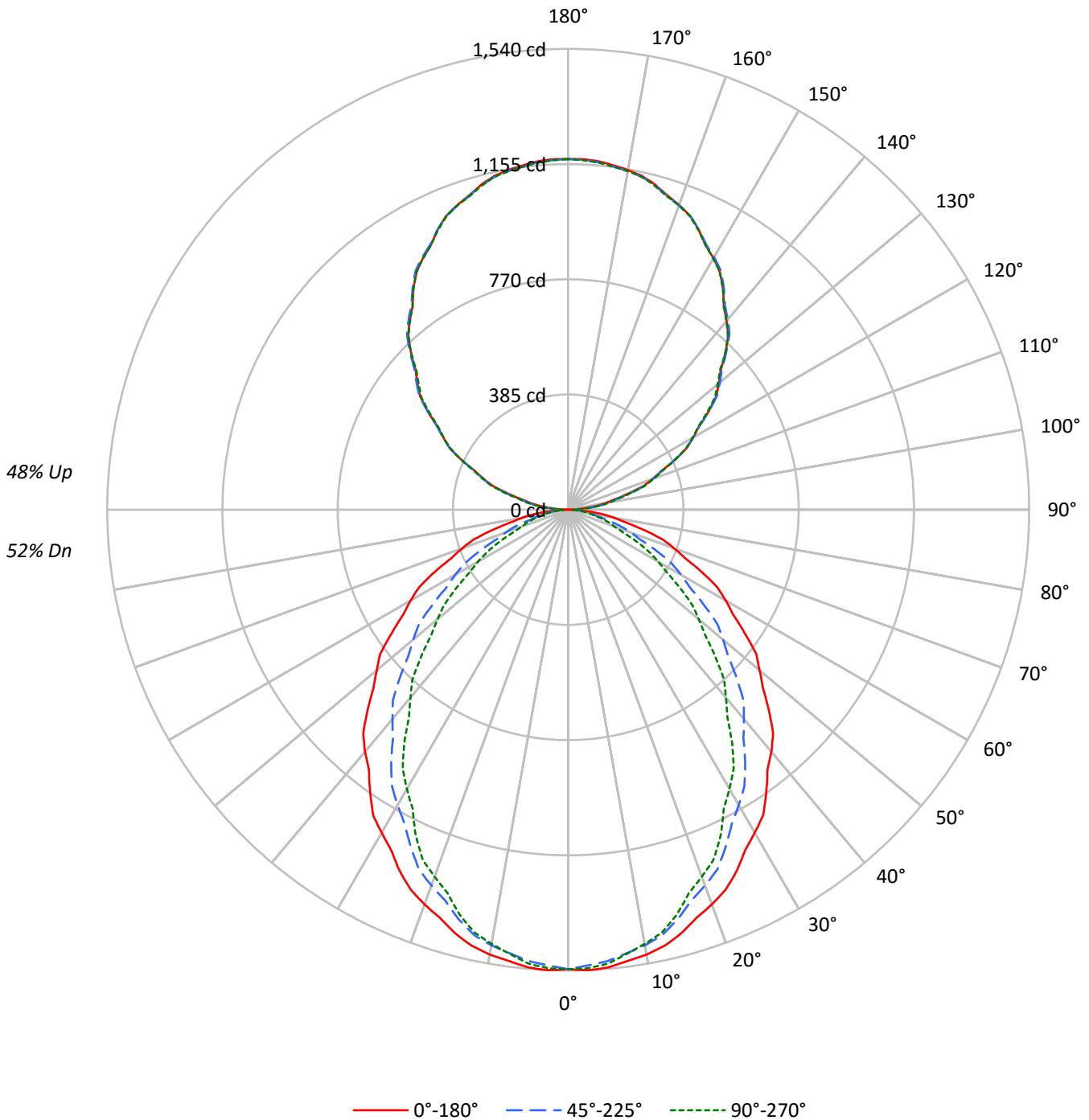
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332388-927

CATALOG NUMBER: S123RDIP-S1165D1195U927-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332388-927

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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 | 108 | 108 | 108 | 108 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 58 | 58 | 58 | 52 |
| 1 | 98 | 94 | 91 | 87 | 91 | 87 | 84 | 81 | 74 | 72 | 70 | 62 | 61 | 59 | 51 | 50 | 49 | 44 |
| 2 | 90 | 83 | 77 | 72 | 83 | 77 | 72 | 67 | 66 | 62 | 58 | 55 | 52 | 50 | 46 | 44 | 42 | 38 |
| 3 | 82 | 73 | 66 | 60 | 76 | 68 | 62 | 56 | 58 | 53 | 49 | 49 | 46 | 43 | 41 | 38 | 36 | 32 |
| 4 | 75 | 65 | 57 | 51 | 70 | 60 | 53 | 48 | 52 | 47 | 42 | 44 | 40 | 37 | 37 | 34 | 31 | 28 |
| 5 | 69 | 58 | 50 | 44 | 64 | 54 | 47 | 42 | 47 | 41 | 37 | 40 | 35 | 32 | 33 | 30 | 28 | 24 |
| 6 | 64 | 52 | 44 | 38 | 59 | 49 | 41 | 36 | 42 | 36 | 32 | 36 | 32 | 28 | 30 | 27 | 24 | 22 |
| 7 | 59 | 47 | 39 | 34 | 55 | 44 | 37 | 32 | 38 | 33 | 29 | 33 | 28 | 25 | 28 | 24 | 22 | 19 |
| 8 | 55 | 43 | 35 | 30 | 51 | 40 | 33 | 28 | 35 | 29 | 25 | 30 | 26 | 23 | 25 | 22 | 20 | 17 |
| 9 | 51 | 39 | 32 | 27 | 47 | 37 | 30 | 25 | 32 | 27 | 23 | 28 | 23 | 20 | 24 | 20 | 18 | 16 |
| 10 | 48 | 36 | 29 | 24 | 44 | 34 | 27 | 23 | 30 | 24 | 21 | 26 | 21 | 18 | 22 | 19 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 16527 | 16527 | 16527 |
| 5° | 16590 | 16361 | 16455 |
| 10° | 16497 | 16156 | 16101 |
| 15° | 16319 | 15778 | 15611 |
| 20° | 16076 | 15306 | 14948 |
| 25° | 15824 | 14775 | 14301 |
| 30° | 15493 | 14162 | 13387 |
| 35° | 15152 | 13548 | 12550 |
| 40° | 14838 | 12826 | 11514 |
| 45° | 14425 | 12113 | 10577 |
| 50° | 13971 | 11302 | 9530 |
| 55° | 13508 | 10376 | 8552 |
| 60° | 13082 | 9384 | 7481 |
| 65° | 12528 | 8308 | 6406 |
| 70° | 11833 | 6977 | 5174 |
| 75° | 10821 | 5490 | 4870 |
| 80° | 9651 | 4860 | 4475 |
| 85° | 8151 | 4310 | 4001 |



TEST NUMBER: P332388-927

CATALOG NUMBER: S123RDIP-S1165D1195U927-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 144.2 | 2.1 |
| 10°-20° | 401.2 | 6.0 |
| 20°-30° | 577.6 | 8.6 |
| 30°-40° | 650.7 | 9.7 |
| 40°-50° | 622.5 | 9.3 |
| 50°-60° | 509.7 | 7.6 |
| 60°-70° | 343.9 | 5.1 |
| 70°-80° | 173.0 | 2.6 |
| 80°-90° | 49.2 | 0.7 |
| 90°-100° | 76.3 | 1.1 |
| 100°-110° | 228.5 | 3.4 |
| 110°-120° | 388.6 | 5.8 |
| 120°-130° | 511.1 | 7.6 |
| 130°-140° | 574.5 | 8.6 |
| 140°-150° | 564.7 | 8.4 |
| 150°-160° | 475.4 | 7.1 |
| 160°-170° | 316.5 | 4.7 |
| 170°-180° | 110.8 | 1.6 |
| 0°-30° | 1123.0 | 16.7 |
| 0°-40° | 1773.6 | 26.4 |
| 0°-60° | 2905.8 | 43.3 |
| 0°-90° | 3472.0 | 51.7 |
| 90°-120° | 693.4 | 10.3 |
| 90°-150° | 2343.7 | 34.9 |
| 90°-180° | 3246.0 | 48.3 |
| 0°-180° | 6718.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1535 | 1535 | 1535 | 1535 | 1535 | |
| 5° | 1535 | 1529 | 1514 | 1525 | 1523 | 146 |
| 15° | 1464 | 1450 | 1416 | 1410 | 1401 | 412 |
| 25° | 1332 | 1300 | 1244 | 1219 | 1204 | 613 |
| 35° | 1153 | 1106 | 1031 | 979 | 955 | 721 |
| 45° | 948 | 889 | 796 | 727 | 695 | 731 |
| 55° | 720 | 656 | 553 | 483 | 456 | 645 |
| 65° | 492 | 422 | 326 | 268 | 252 | 487 |
| 75° | 260 | 200 | 132 | 120 | 117 | 278 |
| 85° | 66 | 40 | 35 | 32 | 32 | 74 |
| 90° | 1 | 10 | 22 | 26 | 28 | 7 |
| 95° | 54 | 61 | 68 | 72 | 72 | 61 |
| 105° | 207 | 209 | 217 | 217 | 219 | 222 |
| 115° | 391 | 394 | 392 | 393 | 392 | 387 |
| 125° | 572 | 575 | 574 | 570 | 566 | 510 |
| 135° | 743 | 748 | 747 | 744 | 742 | 572 |
| 145° | 901 | 903 | 906 | 905 | 901 | 563 |
| 155° | 1032 | 1032 | 1033 | 1036 | 1030 | 475 |
| 165° | 1124 | 1121 | 1121 | 1126 | 1120 | 317 |
| 175° | 1169 | 1165 | 1165 | 1170 | 1164 | 111 |
| 180° | 1172 | 1172 | 1172 | 1172 | 1172 | |



TEST NUMBER: P332388-927

CATALOG NUMBER: S123RDIP-S1165D1195U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 |
| 2.5° | 1540.4 | 1539.4 | 1538.6 | 1537.7 | 1536.8 | 1535.0 | 1532.4 | 1529.7 | 1527.1 | 1524.4 | 1526.9 |
| 5° | 1535.4 | 1534.0 | 1532.6 | 1531.2 | 1529.9 | 1527.5 | 1524.2 | 1520.8 | 1517.5 | 1514.2 | 1516.7 |
| 7.5° | 1521.1 | 1519.7 | 1518.2 | 1516.7 | 1515.2 | 1512.3 | 1508.0 | 1503.6 | 1499.4 | 1495.0 | 1496.4 |
| 10° | 1509.3 | 1507.3 | 1505.4 | 1503.4 | 1501.5 | 1498.0 | 1493.0 | 1488.0 | 1483.0 | 1478.1 | 1478.4 |
| 12.5° | 1492.3 | 1490.2 | 1488.0 | 1485.8 | 1483.7 | 1479.6 | 1473.5 | 1467.4 | 1461.3 | 1455.2 | 1455.0 |
| 15° | 1464.4 | 1461.3 | 1458.3 | 1455.2 | 1452.2 | 1446.8 | 1439.1 | 1431.3 | 1423.6 | 1415.9 | 1414.4 |
| 17.5° | 1429.3 | 1425.8 | 1422.2 | 1418.6 | 1415.2 | 1408.4 | 1398.6 | 1388.7 | 1378.9 | 1369.0 | 1366.1 |
| 20° | 1403.4 | 1399.0 | 1394.6 | 1390.1 | 1385.7 | 1378.2 | 1367.7 | 1357.2 | 1346.6 | 1336.2 | 1332.5 |
| 22.5° | 1374.5 | 1369.4 | 1364.3 | 1359.2 | 1354.2 | 1346.0 | 1334.8 | 1323.7 | 1312.5 | 1301.2 | 1296.8 |
| 25° | 1332.4 | 1325.5 | 1318.6 | 1311.6 | 1304.7 | 1294.9 | 1282.1 | 1269.5 | 1256.7 | 1244.0 | 1238.2 |
| 27.5° | 1281.4 | 1273.7 | 1266.1 | 1258.5 | 1250.8 | 1239.9 | 1225.7 | 1211.6 | 1197.4 | 1183.2 | 1175.1 |
| 30° | 1246.5 | 1238.2 | 1229.9 | 1221.5 | 1213.3 | 1201.3 | 1185.9 | 1170.4 | 1154.9 | 1139.4 | 1130.0 |
| 32.5° | 1211.6 | 1202.2 | 1192.8 | 1183.4 | 1174.0 | 1161.1 | 1144.7 | 1128.3 | 1111.9 | 1095.6 | 1085.3 |
| 35° | 1153.1 | 1143.1 | 1133.1 | 1123.2 | 1113.3 | 1099.7 | 1082.5 | 1065.4 | 1048.2 | 1031.0 | 1019.1 |
| 37.5° | 1093.8 | 1082.8 | 1071.7 | 1060.6 | 1049.6 | 1034.8 | 1016.5 | 998.2 | 979.9 | 961.6 | 948.1 |
| 40° | 1056.0 | 1043.8 | 1031.6 | 1019.5 | 1007.3 | 991.3 | 971.7 | 952.0 | 932.4 | 912.8 | 898.3 |
| 42.5° | 1013.1 | 1000.9 | 988.8 | 976.6 | 964.4 | 948.2 | 927.9 | 907.5 | 887.2 | 867.0 | 851.2 |
| 45° | 947.6 | 935.2 | 922.7 | 910.3 | 897.8 | 880.9 | 859.6 | 838.3 | 817.0 | 795.7 | 779.9 |
| 47.5° | 882.1 | 868.5 | 854.8 | 841.1 | 827.4 | 809.9 | 788.6 | 767.3 | 746.0 | 724.8 | 707.6 |
| 50° | 834.3 | 821.3 | 808.3 | 795.3 | 782.3 | 764.6 | 742.2 | 719.8 | 697.4 | 674.9 | 657.7 |
| 52.5° | 791.5 | 777.4 | 763.3 | 749.2 | 735.0 | 716.8 | 694.7 | 672.5 | 650.3 | 628.1 | 610.3 |
| 55° | 719.8 | 706.2 | 692.6 | 679.1 | 665.5 | 647.0 | 623.4 | 599.9 | 576.4 | 552.9 | 536.9 |
| 57.5° | 653.5 | 638.7 | 623.9 | 609.2 | 594.4 | 575.2 | 551.6 | 527.9 | 504.3 | 480.7 | 465.5 |
| 60° | 607.7 | 592.5 | 577.3 | 562.1 | 546.8 | 527.7 | 504.7 | 481.8 | 458.8 | 435.9 | 420.9 |
| 62.5° | 561.8 | 546.6 | 531.4 | 516.2 | 501.0 | 481.9 | 458.9 | 435.9 | 413.0 | 390.0 | 376.0 |
| 65° | 491.9 | 476.7 | 461.4 | 446.2 | 431.0 | 412.6 | 391.0 | 369.4 | 347.8 | 326.2 | 312.7 |
| 67.5° | 421.9 | 406.5 | 391.1 | 375.7 | 360.4 | 342.3 | 321.6 | 300.9 | 280.2 | 259.5 | 249.4 |
| 70° | 376.0 | 361.2 | 346.2 | 331.2 | 316.3 | 299.1 | 279.8 | 260.4 | 241.1 | 221.7 | 212.0 |
| 72.5° | 330.3 | 315.5 | 300.8 | 286.1 | 271.3 | 255.2 | 237.6 | 220.0 | 202.4 | 184.8 | 176.9 |
| 75° | 260.2 | 247.0 | 233.7 | 220.4 | 207.2 | 192.9 | 177.7 | 162.4 | 147.2 | 132.0 | 129.2 |
| 77.5° | 196.5 | 184.5 | 172.5 | 160.5 | 148.5 | 137.5 | 127.8 | 118.0 | 108.1 | 98.4 | 96.9 |
| 80° | 155.7 | 144.3 | 132.9 | 121.6 | 110.3 | 101.7 | 95.9 | 90.1 | 84.3 | 78.4 | 77.6 |
| 82.5° | 116.8 | 107.0 | 97.2 | 87.4 | 77.6 | 71.4 | 68.7 | 65.9 | 63.2 | 60.5 | 59.7 |
| 85° | 66.0 | 59.9 | 53.8 | 47.8 | 41.7 | 38.2 | 37.4 | 36.5 | 35.7 | 34.9 | 34.3 |
| 87.5° | 24.1 | 22.1 | 20.0 | 18.0 | 16.0 | 15.2 | 15.8 | 16.3 | 16.9 | 17.3 | 17.3 |
| 90° | 1.0 | 2.9 | 5.0 | 7.1 | 9.1 | 11.5 | 14.1 | 16.8 | 19.4 | 22.1 | 22.9 |
| 92.5° | 22.3 | 23.7 | 25.0 | 26.5 | 27.8 | 29.3 | 30.8 | 32.3 | 33.8 | 35.3 | 36.0 |
| 95° | 54.3 | 55.8 | 57.2 | 58.6 | 60.0 | 61.6 | 63.2 | 64.8 | 66.5 | 68.1 | 68.9 |
| 97.5° | 96.5 | 97.5 | 98.6 | 99.7 | 100.7 | 101.9 | 103.1 | 104.3 | 105.4 | 106.5 | 107.5 |
| 100° | 125.2 | 126.4 | 127.6 | 128.9 | 130.1 | 131.2 | 132.2 | 133.2 | 134.3 | 135.3 | 135.9 |
| 102.5° | 158.3 | 159.1 | 159.8 | 160.5 | 161.3 | 162.3 | 163.7 | 165.0 | 166.4 | 167.7 | 168.3 |
| 105° | 207.1 | 207.5 | 207.9 | 208.3 | 208.7 | 209.8 | 211.7 | 213.6 | 215.4 | 217.2 | 217.2 |
| 107.5° | 263.8 | 264.0 | 264.3 | 264.5 | 264.7 | 265.3 | 266.0 | 266.7 | 267.4 | 268.2 | 268.9 |
| 110° | 299.1 | 299.5 | 299.9 | 300.4 | 300.8 | 301.2 | 301.6 | 302.0 | 302.4 | 302.9 | 303.6 |



TEST NUMBER: P332388-927

CATALOG NUMBER: S123RDIP-S1165D1195U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 336.0 | 336.2 | 336.4 | 336.7 | 336.9 | 337.1 | 337.2 | 337.2 | 337.3 | 337.4 | 338.4 |
| 115° | 391.2 | 391.8 | 392.4 | 393.0 | 393.6 | 393.7 | 393.3 | 392.9 | 392.5 | 392.1 | 392.3 |
| 117.5° | 446.8 | 447.2 | 447.6 | 448.0 | 448.4 | 448.4 | 447.8 | 447.3 | 446.8 | 446.2 | 446.2 |
| 120° | 481.4 | 482.6 | 483.9 | 485.1 | 486.3 | 486.4 | 485.4 | 484.3 | 483.3 | 482.3 | 482.1 |
| 122.5° | 517.5 | 518.3 | 519.3 | 520.1 | 521.1 | 521.3 | 520.7 | 520.1 | 519.7 | 519.1 | 518.6 |
| 125° | 572.5 | 573.1 | 573.7 | 574.3 | 575.0 | 575.0 | 574.6 | 574.3 | 573.9 | 573.5 | 572.6 |
| 127.5° | 623.3 | 624.6 | 625.9 | 627.2 | 628.5 | 629.0 | 628.5 | 628.0 | 627.6 | 627.2 | 626.1 |
| 130° | 657.2 | 658.8 | 660.4 | 662.1 | 663.7 | 664.2 | 663.6 | 663.0 | 662.4 | 661.8 | 661.0 |
| 132.5° | 691.0 | 692.7 | 694.3 | 695.9 | 697.6 | 698.2 | 697.8 | 697.3 | 696.8 | 696.4 | 695.4 |
| 135° | 742.8 | 744.0 | 745.2 | 746.5 | 747.7 | 748.2 | 748.0 | 747.8 | 747.6 | 747.3 | 746.6 |
| 137.5° | 790.7 | 791.6 | 792.7 | 793.7 | 794.7 | 795.5 | 796.1 | 796.5 | 797.1 | 797.6 | 796.8 |
| 140° | 823.8 | 824.8 | 825.9 | 826.9 | 827.8 | 828.5 | 828.7 | 828.9 | 829.1 | 829.3 | 829.1 |
| 142.5° | 854.0 | 855.0 | 856.0 | 857.1 | 858.1 | 858.7 | 859.1 | 859.5 | 859.8 | 860.2 | 860.0 |
| 145° | 901.1 | 901.5 | 901.9 | 902.3 | 902.7 | 903.2 | 903.9 | 904.4 | 905.1 | 905.7 | 905.5 |
| 147.5° | 942.3 | 943.1 | 943.8 | 944.5 | 945.3 | 945.9 | 946.5 | 947.1 | 947.6 | 948.2 | 948.2 |
| 150° | 971.1 | 971.5 | 971.8 | 972.2 | 972.7 | 973.1 | 973.5 | 973.9 | 974.3 | 974.7 | 974.7 |
| 152.5° | 994.6 | 995.2 | 995.8 | 996.3 | 996.9 | 997.3 | 997.5 | 997.8 | 998.1 | 998.3 | 998.6 |
| 155° | 1031.8 | 1031.8 | 1031.8 | 1031.8 | 1031.8 | 1031.9 | 1032.1 | 1032.3 | 1032.5 | 1032.7 | 1033.6 |
| 157.5° | 1063.4 | 1063.2 | 1063.0 | 1062.7 | 1062.5 | 1062.4 | 1062.6 | 1062.8 | 1063.0 | 1063.1 | 1064.0 |
| 160° | 1083.3 | 1082.9 | 1082.5 | 1082.1 | 1081.7 | 1081.5 | 1081.5 | 1081.5 | 1081.5 | 1081.5 | 1082.5 |
| 162.5° | 1101.0 | 1100.4 | 1099.9 | 1099.3 | 1098.8 | 1098.5 | 1098.7 | 1098.8 | 1099.0 | 1099.2 | 1100.2 |
| 165° | 1123.9 | 1123.2 | 1122.6 | 1122.0 | 1121.4 | 1121.1 | 1121.1 | 1121.1 | 1121.1 | 1121.1 | 1122.3 |
| 167.5° | 1142.1 | 1141.2 | 1140.4 | 1139.6 | 1138.8 | 1138.4 | 1138.6 | 1138.8 | 1138.9 | 1139.1 | 1140.3 |
| 170° | 1152.4 | 1151.5 | 1150.7 | 1149.9 | 1149.1 | 1148.7 | 1148.7 | 1148.7 | 1148.7 | 1148.7 | 1150.1 |
| 172.5° | 1160.5 | 1159.7 | 1158.8 | 1158.0 | 1157.2 | 1156.8 | 1156.8 | 1156.8 | 1156.8 | 1156.8 | 1158.1 |
| 175° | 1168.9 | 1168.2 | 1167.3 | 1166.5 | 1165.7 | 1165.2 | 1165.2 | 1165.2 | 1165.2 | 1165.2 | 1166.5 |
| 177.5° | 1172.4 | 1171.8 | 1171.2 | 1170.4 | 1169.8 | 1169.5 | 1169.5 | 1169.5 | 1169.5 | 1169.5 | 1170.4 |
| 180° | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 |



TEST NUMBER: P332388-927

CATALOG NUMBER: S123RDIP-S1165D1195U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 |
| 2.5° | 1529.3 | 1531.8 | 1534.1 | 1535.2 | 1534.7 | 1534.3 | 1533.8 | 1533.3 |
| 5° | 1519.2 | 1521.7 | 1524.2 | 1525.1 | 1524.6 | 1524.0 | 1523.4 | 1522.9 |
| 7.5° | 1497.8 | 1499.2 | 1500.6 | 1500.8 | 1499.8 | 1498.9 | 1497.9 | 1497.0 |
| 10° | 1478.7 | 1478.9 | 1479.2 | 1478.7 | 1477.3 | 1475.9 | 1474.5 | 1473.1 |
| 12.5° | 1454.8 | 1454.7 | 1454.5 | 1453.7 | 1452.1 | 1450.4 | 1448.8 | 1447.2 |
| 15° | 1413.1 | 1411.7 | 1410.3 | 1408.7 | 1406.7 | 1404.8 | 1402.8 | 1400.9 |
| 17.5° | 1363.2 | 1360.2 | 1357.2 | 1354.4 | 1351.5 | 1348.6 | 1345.8 | 1342.8 |
| 20° | 1329.0 | 1325.3 | 1321.8 | 1318.3 | 1314.9 | 1311.6 | 1308.4 | 1305.0 |
| 22.5° | 1292.3 | 1287.9 | 1283.3 | 1279.5 | 1276.4 | 1273.4 | 1270.3 | 1267.2 |
| 25° | 1232.4 | 1226.5 | 1220.8 | 1216.3 | 1213.3 | 1210.2 | 1207.2 | 1204.1 |
| 27.5° | 1167.0 | 1159.0 | 1150.9 | 1144.5 | 1139.9 | 1135.3 | 1130.6 | 1125.9 |
| 30° | 1120.5 | 1111.2 | 1101.8 | 1094.9 | 1090.4 | 1086.0 | 1081.6 | 1077.1 |
| 32.5° | 1075.0 | 1064.7 | 1054.4 | 1046.9 | 1042.3 | 1037.6 | 1033.0 | 1028.3 |
| 35° | 1007.3 | 995.4 | 983.5 | 975.0 | 970.0 | 965.0 | 960.0 | 955.1 |
| 37.5° | 934.5 | 921.1 | 907.5 | 897.7 | 891.6 | 885.4 | 879.3 | 873.1 |
| 40° | 884.0 | 869.6 | 855.2 | 844.9 | 838.4 | 832.1 | 825.8 | 819.4 |
| 42.5° | 835.5 | 819.8 | 804.1 | 793.4 | 787.7 | 782.0 | 776.3 | 770.6 |
| 45° | 764.1 | 748.4 | 732.6 | 721.4 | 714.8 | 708.1 | 701.5 | 694.8 |
| 47.5° | 690.4 | 673.3 | 656.1 | 644.6 | 638.7 | 632.7 | 626.8 | 620.9 |
| 50° | 640.6 | 623.4 | 606.3 | 594.5 | 588.2 | 581.8 | 575.4 | 569.1 |
| 52.5° | 592.5 | 574.6 | 556.8 | 545.0 | 539.3 | 533.7 | 528.0 | 522.3 |
| 55° | 520.8 | 504.7 | 488.7 | 477.9 | 472.4 | 466.8 | 461.3 | 455.7 |
| 57.5° | 450.4 | 435.1 | 420.0 | 410.0 | 405.4 | 400.7 | 395.9 | 391.3 |
| 60° | 405.9 | 391.0 | 376.0 | 366.2 | 361.6 | 356.8 | 352.1 | 347.5 |
| 62.5° | 361.9 | 347.8 | 333.7 | 324.3 | 319.3 | 314.4 | 309.5 | 304.6 |
| 65° | 299.1 | 285.6 | 272.0 | 263.7 | 260.7 | 257.6 | 254.6 | 251.5 |
| 67.5° | 239.2 | 229.1 | 219.0 | 212.3 | 209.1 | 205.7 | 202.5 | 199.2 |
| 70° | 202.2 | 192.6 | 182.9 | 176.6 | 173.5 | 170.5 | 167.4 | 164.4 |
| 72.5° | 169.0 | 161.1 | 153.1 | 148.5 | 147.3 | 146.0 | 144.7 | 143.5 |
| 75° | 126.4 | 123.7 | 120.9 | 119.3 | 118.7 | 118.2 | 117.6 | 117.1 |
| 77.5° | 95.4 | 93.9 | 92.4 | 91.3 | 90.8 | 90.2 | 89.7 | 89.1 |
| 80° | 76.8 | 76.0 | 75.1 | 74.5 | 73.9 | 73.4 | 72.8 | 72.2 |
| 82.5° | 58.9 | 58.1 | 57.2 | 56.7 | 56.6 | 56.5 | 56.4 | 56.3 |
| 85° | 33.7 | 33.2 | 32.6 | 32.4 | 32.4 | 32.4 | 32.4 | 32.4 |
| 87.5° | 17.3 | 17.2 | 17.1 | 17.0 | 16.9 | 16.8 | 16.6 | 16.5 |
| 90° | 23.8 | 24.6 | 25.3 | 26.0 | 26.4 | 26.8 | 27.2 | 27.6 |
| 92.5° | 36.7 | 37.3 | 37.9 | 38.2 | 37.9 | 37.7 | 37.4 | 37.2 |
| 95° | 69.7 | 70.6 | 71.4 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 |
| 97.5° | 108.4 | 109.4 | 110.4 | 110.7 | 110.7 | 110.6 | 110.5 | 110.4 |
| 100° | 136.5 | 137.1 | 137.8 | 138.2 | 138.7 | 139.1 | 139.5 | 139.9 |
| 102.5° | 168.9 | 169.5 | 170.2 | 170.4 | 170.3 | 170.2 | 170.2 | 170.1 |
| 105° | 217.2 | 217.2 | 217.2 | 217.5 | 217.9 | 218.2 | 218.6 | 219.0 |
| 107.5° | 269.5 | 270.2 | 270.8 | 271.0 | 270.8 | 270.5 | 270.3 | 270.1 |
| 110° | 304.4 | 305.3 | 306.1 | 306.3 | 305.9 | 305.5 | 305.1 | 304.7 |



TEST NUMBER: P332388-927

CATALOG NUMBER: S123RDIP-S1165D1195U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 339.4 | 340.4 | 341.4 | 341.8 | 341.7 | 341.7 | 341.6 | 341.5 |
| 115° | 392.5 | 392.7 | 392.9 | 392.9 | 392.7 | 392.5 | 392.3 | 392.1 |
| 117.5° | 446.2 | 446.1 | 446.1 | 445.8 | 445.2 | 444.6 | 444.0 | 443.5 |
| 120° | 481.9 | 481.7 | 481.5 | 481.2 | 480.8 | 480.4 | 480.0 | 479.5 |
| 122.5° | 518.1 | 517.5 | 517.0 | 516.4 | 515.9 | 515.3 | 514.7 | 514.1 |
| 125° | 571.8 | 571.0 | 570.1 | 569.3 | 568.5 | 567.7 | 566.9 | 566.1 |
| 127.5° | 624.9 | 623.8 | 622.6 | 621.5 | 620.6 | 619.6 | 618.7 | 617.8 |
| 130° | 660.1 | 659.3 | 658.5 | 657.4 | 655.9 | 654.5 | 653.1 | 651.6 |
| 132.5° | 694.4 | 693.5 | 692.4 | 691.4 | 690.3 | 689.2 | 688.1 | 687.0 |
| 135° | 745.8 | 744.9 | 744.1 | 743.5 | 743.1 | 742.7 | 742.3 | 741.9 |
| 137.5° | 795.9 | 795.0 | 794.2 | 793.4 | 792.6 | 791.9 | 791.1 | 790.3 |
| 140° | 828.9 | 828.7 | 828.5 | 827.7 | 826.2 | 824.8 | 823.4 | 822.0 |
| 142.5° | 859.8 | 859.6 | 859.4 | 858.7 | 857.6 | 856.5 | 855.5 | 854.4 |
| 145° | 905.3 | 905.1 | 904.9 | 904.4 | 903.6 | 902.7 | 901.9 | 901.1 |
| 147.5° | 948.2 | 948.2 | 948.2 | 947.6 | 946.3 | 945.2 | 943.9 | 942.7 |
| 150° | 974.7 | 974.7 | 974.7 | 974.1 | 972.9 | 971.7 | 970.4 | 969.2 |
| 152.5° | 998.9 | 999.3 | 999.6 | 999.3 | 998.1 | 997.1 | 996.0 | 995.0 |
| 155° | 1034.4 | 1035.1 | 1036.0 | 1035.7 | 1034.3 | 1032.8 | 1031.4 | 1029.9 |
| 157.5° | 1064.8 | 1065.6 | 1066.5 | 1066.4 | 1065.2 | 1064.1 | 1063.0 | 1061.8 |
| 160° | 1083.5 | 1084.6 | 1085.6 | 1085.7 | 1084.9 | 1084.0 | 1083.2 | 1082.4 |
| 162.5° | 1101.2 | 1102.2 | 1103.3 | 1103.1 | 1101.8 | 1100.5 | 1099.2 | 1097.9 |
| 165° | 1123.6 | 1124.7 | 1126.0 | 1125.8 | 1124.4 | 1123.0 | 1121.6 | 1120.1 |
| 167.5° | 1141.6 | 1142.9 | 1144.1 | 1144.1 | 1142.9 | 1141.6 | 1140.3 | 1139.1 |
| 170° | 1151.5 | 1153.0 | 1154.4 | 1154.4 | 1153.0 | 1151.5 | 1150.1 | 1148.7 |
| 172.5° | 1159.4 | 1160.6 | 1161.9 | 1161.8 | 1160.3 | 1158.9 | 1157.5 | 1156.0 |
| 175° | 1167.7 | 1168.9 | 1170.1 | 1170.1 | 1168.6 | 1167.2 | 1165.8 | 1164.3 |
| 177.5° | 1171.5 | 1172.4 | 1173.4 | 1173.3 | 1172.2 | 1171.0 | 1169.9 | 1168.8 |
| 180° | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 | 1171.7 |

(END OF REPORT)