

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: P332376-927

Luminaire Tested: **S123RDIP-S1165D805U927-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332376-927
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-S1165D805U927-4F0-1E-UDD-F1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 805 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5655.4 lumens
Efficiency: N/A
Efficacy: 93.2 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

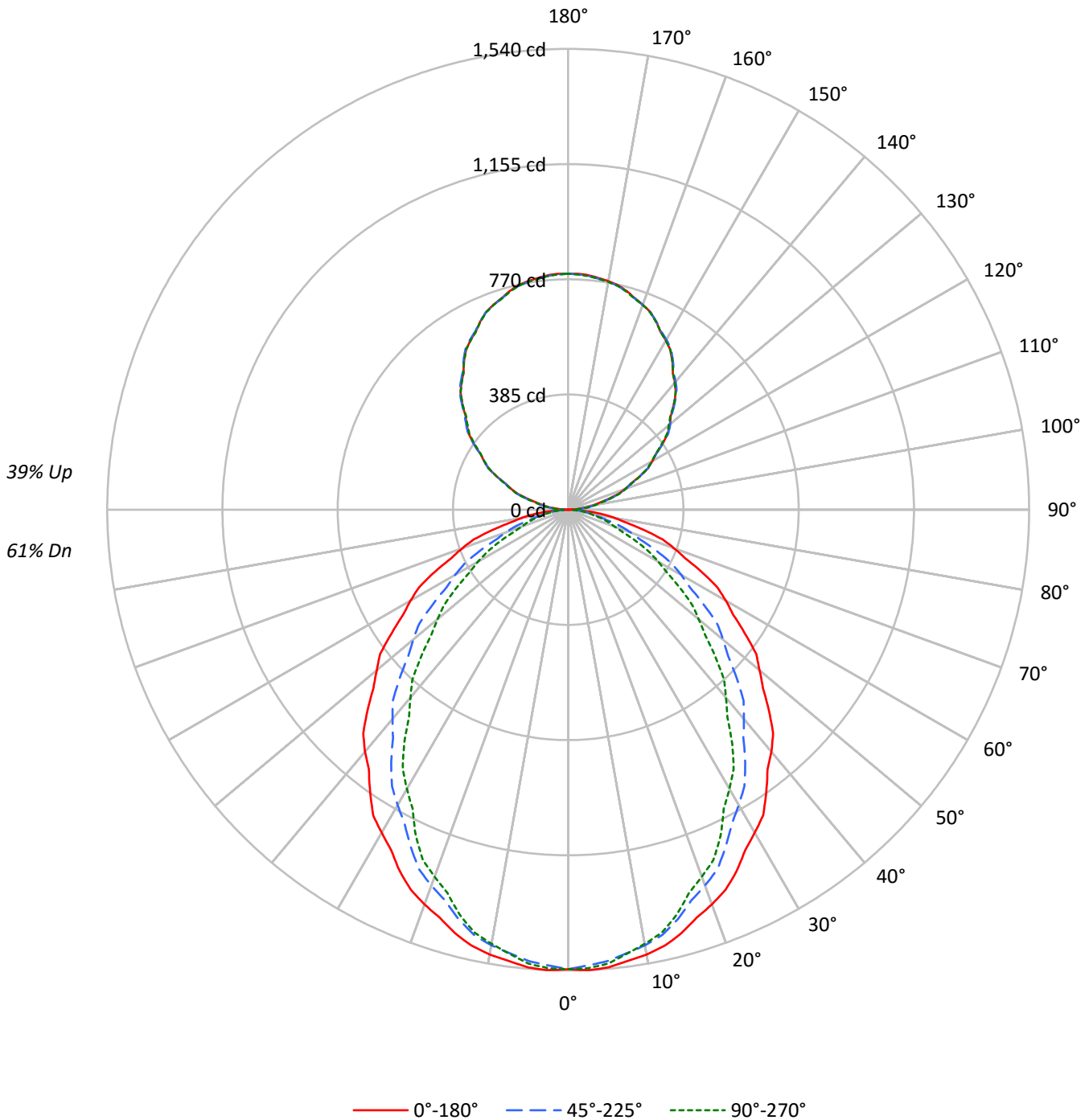
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332376-927

CATALOG NUMBER: S123RDIP-S1165D805U927-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332376-927

CATALOG NUMBER: S123RDIP-S1165D805U927-4F0-1E-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 | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 78 | 78 | 78 | 67 | 67 | 67 | 61 |
| 1 | 101 | 96 | 93 | 89 | 94 | 90 | 87 | 84 | 79 | 77 | 75 | 69 | 67 | 66 | 59 | 58 | 57 | 53 |
| 2 | 92 | 85 | 79 | 74 | 86 | 80 | 74 | 70 | 70 | 66 | 62 | 61 | 58 | 55 | 53 | 51 | 49 | 45 |
| 3 | 84 | 75 | 68 | 62 | 79 | 70 | 64 | 59 | 62 | 57 | 53 | 54 | 50 | 47 | 47 | 44 | 42 | 38 |
| 4 | 77 | 67 | 59 | 53 | 72 | 63 | 56 | 50 | 55 | 50 | 45 | 49 | 44 | 41 | 42 | 39 | 36 | 33 |
| 5 | 71 | 60 | 51 | 45 | 66 | 56 | 49 | 43 | 50 | 44 | 40 | 44 | 39 | 36 | 38 | 35 | 32 | 29 |
| 6 | 66 | 54 | 45 | 40 | 61 | 51 | 43 | 38 | 45 | 39 | 35 | 40 | 35 | 31 | 35 | 31 | 28 | 26 |
| 7 | 61 | 49 | 41 | 35 | 57 | 46 | 39 | 34 | 41 | 35 | 31 | 36 | 32 | 28 | 32 | 28 | 25 | 23 |
| 8 | 57 | 44 | 36 | 31 | 53 | 42 | 35 | 30 | 38 | 32 | 28 | 33 | 29 | 25 | 29 | 26 | 23 | 21 |
| 9 | 53 | 41 | 33 | 28 | 49 | 38 | 32 | 27 | 35 | 29 | 25 | 31 | 26 | 23 | 27 | 23 | 21 | 19 |
| 10 | 49 | 37 | 30 | 25 | 46 | 35 | 29 | 24 | 32 | 26 | 22 | 29 | 24 | 21 | 25 | 22 | 19 | 17 |

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: P332376-927

CATALOG NUMBER: S123RDIP-S1165D805U927-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 144.2 | 2.5 |
| 10°-20° | 401.2 | 7.1 |
| 20°-30° | 577.6 | 10.2 |
| 30°-40° | 650.7 | 11.5 |
| 40°-50° | 622.5 | 11.0 |
| 50°-60° | 509.7 | 9.0 |
| 60°-70° | 343.9 | 6.1 |
| 70°-80° | 173.0 | 3.1 |
| 80°-90° | 48.1 | 0.9 |
| 90°-100° | 51.4 | 0.9 |
| 100°-110° | 153.7 | 2.7 |
| 110°-120° | 261.5 | 4.6 |
| 120°-130° | 343.9 | 6.1 |
| 130°-140° | 386.6 | 6.8 |
| 140°-150° | 380.0 | 6.7 |
| 150°-160° | 319.9 | 5.7 |
| 160°-170° | 212.9 | 3.8 |
| 170°-180° | 74.6 | 1.3 |
| 0°-30° | 1123.0 | 19.9 |
| 0°-40° | 1773.6 | 31.4 |
| 0°-60° | 2905.8 | 51.4 |
| 0°-90° | 3470.9 | 61.4 |
| 90°-120° | 466.6 | 8.3 |
| 90°-150° | 1577.1 | 27.9 |
| 90°-180° | 2185.0 | 38.6 |
| 0°-180° | 5655.4 | 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 | 7 | 15 | 17 | 19 | 6 |
| 95° | 36 | 41 | 46 | 48 | 48 | 41 |
| 105° | 139 | 141 | 146 | 146 | 147 | 149 |
| 115° | 263 | 265 | 264 | 264 | 264 | 260 |
| 125° | 385 | 387 | 386 | 383 | 381 | 343 |
| 135° | 500 | 503 | 503 | 500 | 499 | 385 |
| 145° | 606 | 608 | 609 | 609 | 606 | 379 |
| 155° | 694 | 694 | 695 | 697 | 693 | 319 |
| 165° | 756 | 754 | 754 | 758 | 754 | 213 |
| 175° | 787 | 784 | 784 | 787 | 784 | 75 |
| 180° | 788 | 788 | 788 | 788 | 788 | |



TEST NUMBER: P332376-927

CATALOG NUMBER: S123RDIP-S1165D805U927-4F0-1E-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° | 24.0 | 21.9 | 19.7 | 17.6 | 15.4 | 14.5 | 14.8 | 15.2 | 15.5 | 15.9 | 15.8 |
| 90° | 0.6 | 2.0 | 3.4 | 4.8 | 6.1 | 7.7 | 9.5 | 11.2 | 13.1 | 14.9 | 15.4 |
| 92.5° | 15.0 | 15.9 | 16.9 | 17.8 | 18.7 | 19.7 | 20.8 | 21.8 | 22.7 | 23.8 | 24.2 |
| 95° | 36.5 | 37.5 | 38.5 | 39.5 | 40.4 | 41.4 | 42.5 | 43.6 | 44.8 | 45.9 | 46.4 |
| 97.5° | 64.9 | 65.6 | 66.3 | 67.0 | 67.8 | 68.5 | 69.3 | 70.1 | 70.9 | 71.7 | 72.3 |
| 100° | 84.2 | 85.1 | 85.9 | 86.7 | 87.5 | 88.3 | 89.0 | 89.7 | 90.4 | 91.0 | 91.5 |
| 102.5° | 106.5 | 107.0 | 107.5 | 108.1 | 108.5 | 109.2 | 110.1 | 111.1 | 111.9 | 112.9 | 113.3 |
| 105° | 139.3 | 139.7 | 139.9 | 140.2 | 140.5 | 141.2 | 142.4 | 143.7 | 145.0 | 146.2 | 146.2 |
| 107.5° | 177.5 | 177.7 | 177.8 | 178.0 | 178.2 | 178.5 | 179.0 | 179.5 | 180.0 | 180.5 | 180.9 |
| 110° | 201.3 | 201.5 | 201.8 | 202.1 | 202.4 | 202.6 | 203.0 | 203.2 | 203.5 | 203.7 | 204.3 |



TEST NUMBER: P332376-927

CATALOG NUMBER: S123RDIP-S1165D805U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 226.1 | 226.2 | 226.4 | 226.6 | 226.7 | 226.8 | 226.9 | 227.0 | 227.0 | 227.0 | 227.8 |
| 115° | 263.2 | 263.6 | 264.0 | 264.4 | 264.9 | 265.0 | 264.7 | 264.4 | 264.1 | 263.9 | 264.0 |
| 117.5° | 300.6 | 301.0 | 301.2 | 301.4 | 301.7 | 301.7 | 301.3 | 301.0 | 300.6 | 300.2 | 300.2 |
| 120° | 323.9 | 324.7 | 325.6 | 326.4 | 327.3 | 327.3 | 326.6 | 325.9 | 325.3 | 324.6 | 324.4 |
| 122.5° | 348.2 | 348.8 | 349.4 | 350.0 | 350.6 | 350.8 | 350.4 | 350.1 | 349.7 | 349.4 | 349.0 |
| 125° | 385.2 | 385.6 | 386.0 | 386.5 | 386.9 | 387.0 | 386.7 | 386.4 | 386.1 | 385.9 | 385.3 |
| 127.5° | 419.5 | 420.3 | 421.2 | 422.1 | 422.9 | 423.3 | 422.9 | 422.6 | 422.3 | 422.0 | 421.3 |
| 130° | 442.2 | 443.3 | 444.4 | 445.5 | 446.6 | 446.9 | 446.6 | 446.2 | 445.8 | 445.3 | 444.7 |
| 132.5° | 465.0 | 466.1 | 467.2 | 468.3 | 469.4 | 469.8 | 469.5 | 469.2 | 468.9 | 468.6 | 467.9 |
| 135° | 499.8 | 500.7 | 501.5 | 502.3 | 503.1 | 503.5 | 503.4 | 503.2 | 503.0 | 503.0 | 502.4 |
| 137.5° | 532.0 | 532.7 | 533.4 | 534.1 | 534.8 | 535.3 | 535.7 | 536.0 | 536.4 | 536.7 | 536.1 |
| 140° | 554.3 | 555.0 | 555.7 | 556.4 | 557.1 | 557.5 | 557.6 | 557.8 | 557.9 | 558.0 | 557.9 |
| 142.5° | 574.6 | 575.4 | 576.0 | 576.7 | 577.4 | 577.9 | 578.1 | 578.4 | 578.6 | 578.8 | 578.7 |
| 145° | 606.3 | 606.7 | 606.9 | 607.2 | 607.4 | 607.8 | 608.2 | 608.6 | 609.0 | 609.4 | 609.3 |
| 147.5° | 634.1 | 634.6 | 635.1 | 635.6 | 636.1 | 636.5 | 636.9 | 637.3 | 637.7 | 638.1 | 638.1 |
| 150° | 653.4 | 653.7 | 653.9 | 654.3 | 654.5 | 654.8 | 655.1 | 655.4 | 655.6 | 655.9 | 655.9 |
| 152.5° | 669.3 | 669.6 | 670.0 | 670.4 | 670.8 | 671.1 | 671.3 | 671.5 | 671.6 | 671.8 | 672.0 |
| 155° | 694.3 | 694.3 | 694.3 | 694.3 | 694.3 | 694.3 | 694.5 | 694.7 | 694.8 | 694.9 | 695.5 |
| 157.5° | 715.6 | 715.4 | 715.3 | 715.1 | 714.9 | 714.9 | 715.0 | 715.2 | 715.3 | 715.3 | 716.0 |
| 160° | 729.0 | 728.7 | 728.4 | 728.2 | 727.9 | 727.8 | 727.8 | 727.8 | 727.8 | 727.8 | 728.4 |
| 162.5° | 740.8 | 740.5 | 740.1 | 739.7 | 739.3 | 739.2 | 739.3 | 739.4 | 739.5 | 739.7 | 740.3 |
| 165° | 756.2 | 755.8 | 755.4 | 755.0 | 754.6 | 754.4 | 754.4 | 754.4 | 754.4 | 754.4 | 755.2 |
| 167.5° | 768.5 | 767.9 | 767.4 | 766.8 | 766.3 | 766.1 | 766.2 | 766.3 | 766.4 | 766.5 | 767.4 |
| 170° | 775.5 | 774.9 | 774.4 | 773.8 | 773.2 | 772.9 | 772.9 | 772.9 | 772.9 | 772.9 | 774.0 |
| 172.5° | 780.9 | 780.4 | 779.8 | 779.3 | 778.7 | 778.4 | 778.4 | 778.4 | 778.4 | 778.4 | 779.3 |
| 175° | 786.6 | 786.0 | 785.5 | 785.0 | 784.4 | 784.1 | 784.1 | 784.1 | 784.1 | 784.1 | 785.0 |
| 177.5° | 788.9 | 788.5 | 788.1 | 787.6 | 787.2 | 787.0 | 787.0 | 787.0 | 787.0 | 787.0 | 787.6 |
| 180° | 788.5 | 788.5 | 788.5 | 788.5 | 788.5 | 788.5 | 788.5 | 788.5 | 788.5 | 788.5 | 788.5 |



TEST NUMBER: P332376-927

CATALOG NUMBER: S123RDIP-S1165D805U927-4F0-1E-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° | 15.7 | 15.6 | 15.4 | 15.4 | 15.2 | 15.0 | 14.8 | 14.7 |
| 90° | 16.0 | 16.5 | 17.0 | 17.5 | 17.7 | 18.1 | 18.3 | 18.6 |
| 92.5° | 24.6 | 25.1 | 25.5 | 25.7 | 25.5 | 25.3 | 25.2 | 25.0 |
| 95° | 46.9 | 47.5 | 48.0 | 48.3 | 48.3 | 48.3 | 48.3 | 48.3 |
| 97.5° | 73.0 | 73.6 | 74.2 | 74.5 | 74.5 | 74.5 | 74.4 | 74.3 |
| 100° | 91.9 | 92.3 | 92.7 | 93.1 | 93.3 | 93.6 | 93.9 | 94.1 |
| 102.5° | 113.7 | 114.1 | 114.5 | 114.7 | 114.6 | 114.5 | 114.5 | 114.5 |
| 105° | 146.2 | 146.2 | 146.2 | 146.3 | 146.6 | 146.9 | 147.1 | 147.4 |
| 107.5° | 181.3 | 181.8 | 182.3 | 182.4 | 182.2 | 182.0 | 181.9 | 181.7 |
| 110° | 204.9 | 205.4 | 206.0 | 206.1 | 205.8 | 205.6 | 205.3 | 205.0 |



TEST NUMBER: P332376-927

CATALOG NUMBER: S123RDIP-S1165D805U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 228.4 | 229.0 | 229.7 | 230.0 | 230.0 | 229.9 | 229.8 | 229.8 |
| 115° | 264.1 | 264.3 | 264.4 | 264.4 | 264.3 | 264.1 | 264.0 | 263.9 |
| 117.5° | 300.2 | 300.2 | 300.2 | 299.9 | 299.6 | 299.2 | 298.8 | 298.4 |
| 120° | 324.2 | 324.2 | 324.0 | 323.8 | 323.5 | 323.2 | 323.0 | 322.7 |
| 122.5° | 348.6 | 348.2 | 347.9 | 347.5 | 347.1 | 346.7 | 346.3 | 345.9 |
| 125° | 384.8 | 384.2 | 383.7 | 383.1 | 382.5 | 382.0 | 381.4 | 380.9 |
| 127.5° | 420.5 | 419.7 | 419.0 | 418.3 | 417.6 | 417.0 | 416.4 | 415.7 |
| 130° | 444.3 | 443.7 | 443.1 | 442.4 | 441.4 | 440.5 | 439.5 | 438.5 |
| 132.5° | 467.3 | 466.6 | 466.0 | 465.2 | 464.5 | 463.7 | 463.0 | 462.3 |
| 135° | 501.8 | 501.3 | 500.7 | 500.3 | 500.0 | 499.8 | 499.5 | 499.2 |
| 137.5° | 535.6 | 535.0 | 534.4 | 533.9 | 533.4 | 532.8 | 532.3 | 531.8 |
| 140° | 557.8 | 557.6 | 557.5 | 557.0 | 556.0 | 555.0 | 554.1 | 553.1 |
| 142.5° | 578.6 | 578.5 | 578.3 | 577.9 | 577.1 | 576.4 | 575.6 | 574.9 |
| 145° | 609.2 | 609.0 | 608.9 | 608.6 | 608.0 | 607.4 | 606.9 | 606.3 |
| 147.5° | 638.1 | 638.1 | 638.1 | 637.6 | 636.8 | 636.0 | 635.2 | 634.4 |
| 150° | 655.9 | 655.9 | 655.9 | 655.5 | 654.7 | 653.9 | 653.0 | 652.2 |
| 152.5° | 672.2 | 672.4 | 672.6 | 672.4 | 671.7 | 671.0 | 670.3 | 669.6 |
| 155° | 696.0 | 696.6 | 697.1 | 696.9 | 695.9 | 695.0 | 694.0 | 693.1 |
| 157.5° | 716.5 | 717.1 | 717.6 | 717.6 | 716.8 | 716.1 | 715.3 | 714.5 |
| 160° | 729.1 | 729.8 | 730.5 | 730.6 | 730.0 | 729.4 | 728.9 | 728.3 |
| 162.5° | 741.0 | 741.7 | 742.4 | 742.3 | 741.4 | 740.5 | 739.7 | 738.8 |
| 165° | 756.1 | 756.9 | 757.7 | 757.6 | 756.7 | 755.7 | 754.7 | 753.8 |
| 167.5° | 768.3 | 769.1 | 769.9 | 769.9 | 769.1 | 768.3 | 767.4 | 766.5 |
| 170° | 774.9 | 775.9 | 776.8 | 776.8 | 775.9 | 774.9 | 774.0 | 772.9 |
| 172.5° | 780.1 | 781.0 | 781.8 | 781.8 | 780.8 | 779.8 | 778.9 | 777.9 |
| 175° | 785.8 | 786.6 | 787.4 | 787.3 | 786.4 | 785.4 | 784.4 | 783.5 |
| 177.5° | 788.3 | 788.9 | 789.6 | 789.6 | 788.8 | 788.0 | 787.3 | 786.5 |
| 180° | 788.5 | 788.5 | 788.5 | 788.5 | 788.5 | 788.5 | 788.5 | 788.5 |

(END OF REPORT)