

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: P332370-930

Luminaire Tested: **S123RDIP-S1165D585U930-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332370-930  
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-S1165D585U930-4F0-1E-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: 5211.7 lumens  
Efficiency: N/A  
Efficacy: 94.6 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

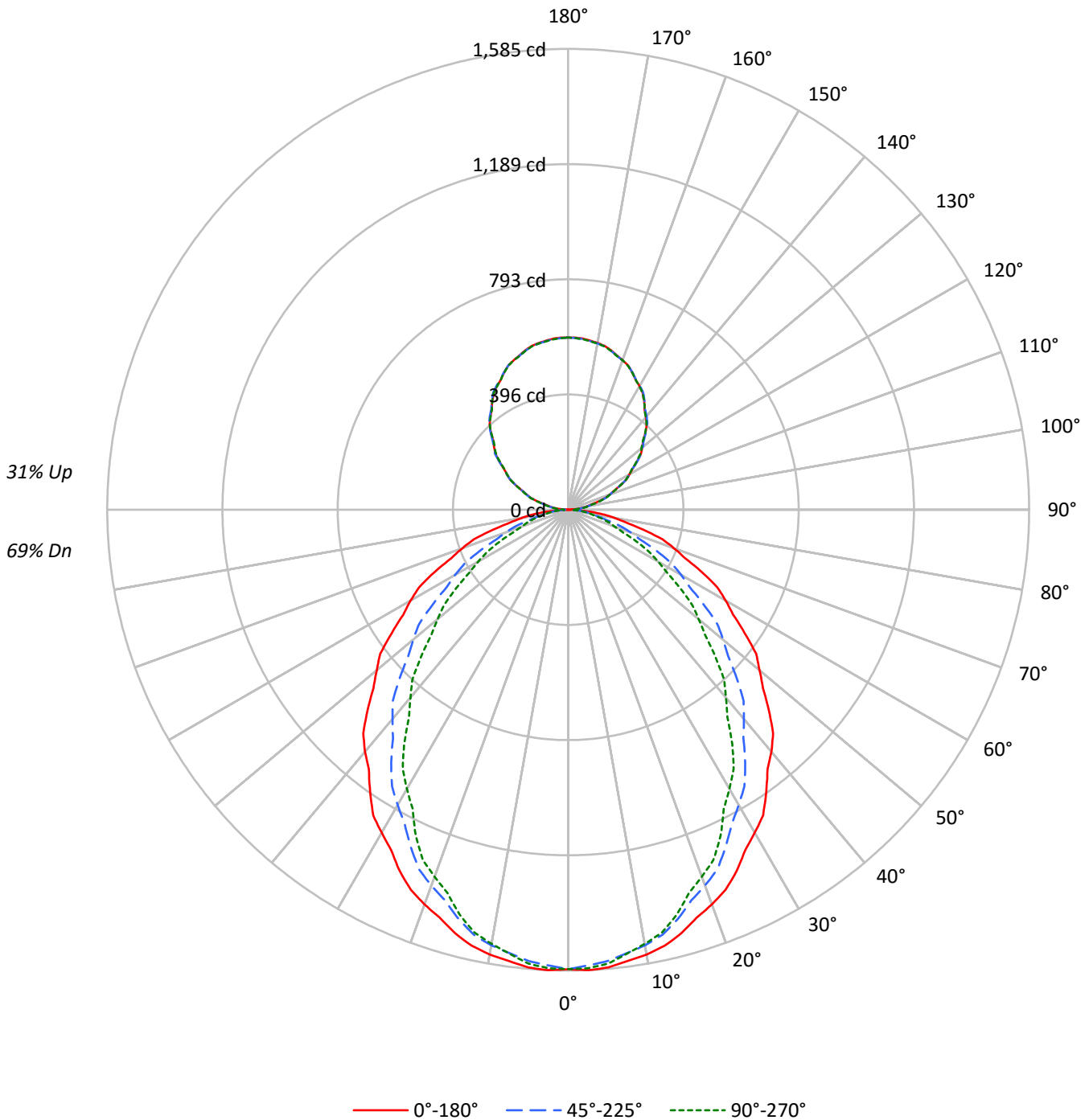
Input Watts (W): 55.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332370-930

CATALOG NUMBER: S123RDIP-S1165D585U930-4F0-1E-UDD-F1

### Luminous Intensity Polar Plot





TEST NUMBER: P332370-930

CATALOG NUMBER: S123RDIP-S1165D585U930-4F0-1E-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°  | 17009 | 17009 | 17009 |
| 5°  | 17074 | 16839 | 16935 |
| 10° | 16978 | 16628 | 16571 |
| 15° | 16796 | 16238 | 16067 |
| 20° | 16544 | 15753 | 15385 |
| 25° | 16286 | 15206 | 14719 |
| 30° | 15945 | 14574 | 13779 |
| 35° | 15594 | 13943 | 12917 |
| 40° | 15271 | 13200 | 11849 |
| 45° | 14846 | 12466 | 10886 |
| 50° | 14380 | 11632 | 9808  |
| 55° | 13902 | 10678 | 8801  |
| 60° | 13464 | 9657  | 7698  |
| 65° | 12893 | 8550  | 6594  |
| 70° | 12180 | 7179  | 5325  |
| 75° | 11137 | 5648  | 5011  |
| 80° | 9930  | 5002  | 4612  |
| 85° | 8386  | 4434  | 4113  |



TEST NUMBER: P332370-930

CATALOG NUMBER: S123RDIP-S1165D585U930-4F0-1E-UDD-F1

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 148.4  | 2.8       |
| 10°-20°   | 412.9  | 7.9       |
| 20°-30°   | 594.5  | 11.4      |
| 30°-40°   | 669.6  | 12.8      |
| 40°-50°   | 640.6  | 12.3      |
| 50°-60°   | 524.6  | 10.1      |
| 60°-70°   | 354.0  | 6.8       |
| 70°-80°   | 178.1  | 3.4       |
| 80°-90°   | 48.9   | 0.9       |
| 90°-100°  | 38.6   | 0.7       |
| 100°-110° | 115.4  | 2.2       |
| 110°-120° | 196.3  | 3.8       |
| 120°-130° | 258.2  | 5.0       |
| 130°-140° | 290.3  | 5.6       |
| 140°-150° | 285.3  | 5.5       |
| 150°-160° | 240.2  | 4.6       |
| 160°-170° | 159.9  | 3.1       |
| 170°-180° | 56.0   | 1.1       |
| 0°-30°    | 1155.7 | 22.2      |
| 0°-40°    | 1825.4 | 35.0      |
| 0°-60°    | 2990.6 | 57.4      |
| 0°-90°    | 3571.5 | 68.5      |
| 90°-120°  | 350.3  | 6.7       |
| 90°-150°  | 1184.1 | 22.7      |
| 90°-180°  | 1640.0 | 31.5      |
| 0°-180°   | 5211.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1580 | 1580  | 1580 | 1580  | 1580 |      |
| 5°   | 1580 | 1573  | 1558 | 1569  | 1567 | 150  |
| 15°  | 1507 | 1492  | 1457 | 1451  | 1442 | 424  |
| 25°  | 1371 | 1338  | 1280 | 1254  | 1239 | 630  |
| 35°  | 1187 | 1139  | 1061 | 1008  | 983  | 742  |
| 45°  | 975  | 915   | 819  | 748   | 715  | 752  |
| 55°  | 741  | 675   | 569  | 497   | 469  | 664  |
| 65°  | 506  | 434   | 336  | 276   | 259  | 501  |
| 75°  | 268  | 206   | 136  | 124   | 120  | 286  |
| 85°  | 68   | 41    | 36   | 33    | 33   | 76   |
| 90°  | 0    | 5     | 11   | 13    | 14   | 5    |
| 95°  | 28   | 31    | 34   | 36    | 36   | 31   |
| 105° | 105  | 106   | 110  | 110   | 111  | 112  |
| 115° | 198  | 199   | 198  | 198   | 198  | 195  |
| 125° | 289  | 291   | 290  | 288   | 286  | 258  |
| 135° | 375  | 378   | 378  | 376   | 375  | 289  |
| 145° | 455  | 456   | 458  | 457   | 455  | 284  |
| 155° | 521  | 521   | 522  | 523   | 520  | 240  |
| 165° | 568  | 566   | 566  | 569   | 566  | 160  |
| 175° | 591  | 589   | 589  | 591   | 588  | 56   |
| 180° | 592  | 592   | 592  | 592   | 592  |      |



TEST NUMBER: P332370-930

CATALOG NUMBER: S123RDIP-S1165D585U930-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1580.2 | 1580.2 | 1580.2 | 1580.2 | 1580.2 | 1580.2 | 1580.2 | 1580.2 | 1580.2 | 1580.2 | 1580.2 |
| 2.5°   | 1585.3 | 1584.4 | 1583.5 | 1582.6 | 1581.7 | 1579.8 | 1577.1 | 1574.3 | 1571.7 | 1568.9 | 1571.4 |
| 5°     | 1580.2 | 1578.7 | 1577.4 | 1575.9 | 1574.5 | 1572.1 | 1568.6 | 1565.2 | 1561.8 | 1558.4 | 1561.0 |
| 7.5°   | 1565.5 | 1564.1 | 1562.5 | 1561.0 | 1559.4 | 1556.4 | 1552.0 | 1547.5 | 1543.1 | 1538.6 | 1540.1 |
| 10°    | 1553.3 | 1551.3 | 1549.3 | 1547.3 | 1545.3 | 1541.7 | 1536.6 | 1531.5 | 1526.3 | 1521.3 | 1521.5 |
| 12.5°  | 1535.9 | 1533.7 | 1531.4 | 1529.2 | 1527.0 | 1522.7 | 1516.5 | 1510.2 | 1503.9 | 1497.6 | 1497.5 |
| 15°    | 1507.2 | 1504.0 | 1500.9 | 1497.7 | 1494.6 | 1489.1 | 1481.1 | 1473.1 | 1465.1 | 1457.2 | 1455.7 |
| 17.5°  | 1471.0 | 1467.4 | 1463.7 | 1460.0 | 1456.5 | 1449.5 | 1439.4 | 1429.2 | 1419.1 | 1409.0 | 1406.0 |
| 20°    | 1444.3 | 1439.8 | 1435.3 | 1430.7 | 1426.1 | 1418.5 | 1407.6 | 1396.8 | 1385.9 | 1375.2 | 1371.4 |
| 22.5°  | 1414.6 | 1409.3 | 1404.1 | 1398.9 | 1393.7 | 1385.3 | 1373.8 | 1362.3 | 1350.8 | 1339.2 | 1334.6 |
| 25°    | 1371.3 | 1364.2 | 1357.1 | 1349.9 | 1342.8 | 1332.7 | 1319.6 | 1306.5 | 1293.4 | 1280.3 | 1274.3 |
| 27.5°  | 1318.7 | 1310.9 | 1303.0 | 1295.2 | 1287.3 | 1276.1 | 1261.5 | 1246.9 | 1232.3 | 1217.7 | 1209.4 |
| 30°    | 1282.9 | 1274.3 | 1265.8 | 1257.2 | 1248.7 | 1236.4 | 1220.5 | 1204.5 | 1188.6 | 1172.6 | 1162.9 |
| 32.5°  | 1247.0 | 1237.3 | 1227.6 | 1217.9 | 1208.3 | 1195.0 | 1178.1 | 1161.2 | 1144.4 | 1127.6 | 1117.0 |
| 35°    | 1186.7 | 1176.5 | 1166.2 | 1156.0 | 1145.7 | 1131.8 | 1114.1 | 1096.5 | 1078.8 | 1061.1 | 1048.9 |
| 37.5°  | 1125.8 | 1114.4 | 1102.9 | 1091.5 | 1080.2 | 1065.0 | 1046.2 | 1027.4 | 1008.5 | 989.6  | 975.8  |
| 40°    | 1086.8 | 1074.2 | 1061.7 | 1049.2 | 1036.7 | 1020.3 | 1000.0 | 979.8  | 959.6  | 939.4  | 924.5  |
| 42.5°  | 1042.7 | 1030.1 | 1017.7 | 1005.1 | 992.5  | 975.8  | 955.0  | 934.0  | 913.1  | 892.3  | 876.0  |
| 45°    | 975.3  | 962.5  | 949.7  | 936.9  | 924.0  | 906.6  | 884.7  | 862.7  | 840.8  | 818.9  | 802.7  |
| 47.5°  | 907.8  | 893.8  | 879.7  | 865.7  | 851.6  | 833.6  | 811.6  | 789.7  | 767.8  | 745.9  | 728.2  |
| 50°    | 858.7  | 845.3  | 831.8  | 818.5  | 805.1  | 786.9  | 763.9  | 740.8  | 717.7  | 694.6  | 676.9  |
| 52.5°  | 814.6  | 800.1  | 785.5  | 771.0  | 756.4  | 737.8  | 714.9  | 692.1  | 669.3  | 646.5  | 628.1  |
| 55°    | 740.8  | 726.8  | 712.8  | 698.9  | 684.9  | 665.9  | 641.6  | 617.4  | 593.2  | 569.0  | 552.5  |
| 57.5°  | 672.5  | 657.4  | 642.1  | 627.0  | 611.7  | 592.0  | 567.7  | 543.3  | 519.0  | 494.7  | 479.1  |
| 60°    | 625.4  | 609.8  | 594.1  | 578.5  | 562.7  | 543.1  | 519.4  | 495.9  | 472.2  | 448.6  | 433.2  |
| 62.5°  | 578.2  | 562.6  | 546.9  | 531.2  | 515.6  | 495.9  | 472.3  | 448.7  | 425.0  | 401.4  | 386.9  |
| 65°    | 506.2  | 490.6  | 474.9  | 459.3  | 443.6  | 424.6  | 402.4  | 380.2  | 358.0  | 335.7  | 321.8  |
| 67.5°  | 434.2  | 418.3  | 402.5  | 386.7  | 370.9  | 352.3  | 331.0  | 309.7  | 288.4  | 267.1  | 256.7  |
| 70°    | 387.0  | 371.7  | 356.3  | 340.9  | 325.5  | 307.9  | 288.0  | 268.0  | 248.1  | 228.1  | 218.2  |
| 72.5°  | 339.9  | 324.7  | 309.6  | 294.4  | 279.2  | 262.6  | 244.5  | 226.4  | 208.3  | 190.2  | 182.1  |
| 75°    | 267.8  | 254.2  | 240.5  | 226.8  | 213.2  | 198.5  | 182.9  | 167.1  | 151.5  | 135.8  | 133.0  |
| 77.5°  | 202.2  | 189.9  | 177.5  | 165.2  | 152.8  | 141.5  | 131.5  | 121.4  | 111.3  | 101.3  | 99.7   |
| 80°    | 160.2  | 148.5  | 136.8  | 125.1  | 113.5  | 104.7  | 98.7   | 92.7   | 86.7   | 80.7   | 79.9   |
| 82.5°  | 120.2  | 110.1  | 100.0  | 89.9   | 79.9   | 73.5   | 70.7   | 67.8   | 65.1   | 62.3   | 61.4   |
| 85°    | 67.9   | 61.6   | 55.4   | 49.2   | 42.9   | 39.3   | 38.5   | 37.6   | 36.8   | 35.9   | 35.3   |
| 87.5°  | 24.7   | 22.4   | 20.1   | 17.8   | 15.5   | 14.5   | 14.8   | 15.0   | 15.3   | 15.6   | 15.4   |
| 90°    | 0.5    | 1.5    | 2.5    | 3.6    | 4.6    | 5.8    | 7.1    | 8.5    | 9.8    | 11.2   | 11.6   |
| 92.5°  | 11.3   | 12.0   | 12.6   | 13.4   | 14.1   | 14.8   | 15.6   | 16.3   | 17.1   | 17.9   | 18.2   |
| 95°    | 27.5   | 28.1   | 28.9   | 29.6   | 30.3   | 31.1   | 32.0   | 32.8   | 33.6   | 34.4   | 34.8   |
| 97.5°  | 48.8   | 49.2   | 49.8   | 50.4   | 50.9   | 51.4   | 52.0   | 52.7   | 53.2   | 53.9   | 54.3   |
| 100°   | 63.3   | 63.8   | 64.5   | 65.1   | 65.7   | 66.3   | 66.8   | 67.3   | 67.8   | 68.3   | 68.6   |
| 102.5° | 80.0   | 80.4   | 80.7   | 81.1   | 81.4   | 82.0   | 82.7   | 83.4   | 84.1   | 84.7   | 85.0   |
| 105°   | 104.6  | 104.8  | 105.0  | 105.3  | 105.5  | 106.0  | 107.0  | 107.9  | 108.8  | 109.7  | 109.7  |
| 107.5° | 133.3  | 133.4  | 133.5  | 133.6  | 133.8  | 134.0  | 134.4  | 134.8  | 135.2  | 135.5  | 135.8  |
| 110°   | 151.2  | 151.3  | 151.6  | 151.7  | 152.0  | 152.1  | 152.4  | 152.6  | 152.8  | 153.0  | 153.4  |



TEST NUMBER: P332370-930

CATALOG NUMBER: S123RDIP-S1165D585U930-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 169.7 | 169.8 | 170.0 | 170.1 | 170.2 | 170.3 | 170.4 | 170.4 | 170.5 | 170.5 | 171.0 |
| 115°   | 197.6 | 198.0 | 198.3 | 198.6 | 198.9 | 198.9 | 198.7 | 198.5 | 198.3 | 198.1 | 198.2 |
| 117.5° | 225.8 | 225.9 | 226.2 | 226.3 | 226.6 | 226.5 | 226.2 | 226.0 | 225.8 | 225.4 | 225.4 |
| 120°   | 243.2 | 243.9 | 244.4 | 245.1 | 245.7 | 245.7 | 245.2 | 244.8 | 244.2 | 243.7 | 243.6 |
| 122.5° | 261.5 | 261.9 | 262.4 | 262.8 | 263.3 | 263.3 | 263.1 | 262.9 | 262.5 | 262.3 | 262.0 |
| 125°   | 289.3 | 289.6 | 289.8 | 290.2 | 290.5 | 290.6 | 290.3 | 290.2 | 289.9 | 289.8 | 289.3 |
| 127.5° | 315.0 | 315.6 | 316.3 | 316.9 | 317.6 | 317.8 | 317.6 | 317.3 | 317.1 | 316.9 | 316.3 |
| 130°   | 332.1 | 332.9 | 333.7 | 334.5 | 335.3 | 335.6 | 335.3 | 335.0 | 334.7 | 334.4 | 333.9 |
| 132.5° | 349.1 | 350.0 | 350.8 | 351.6 | 352.5 | 352.8 | 352.5 | 352.3 | 352.0 | 351.9 | 351.3 |
| 135°   | 375.3 | 375.9 | 376.5 | 377.2 | 377.7 | 378.1 | 377.9 | 377.8 | 377.7 | 377.6 | 377.2 |
| 137.5° | 399.5 | 400.0 | 400.5 | 401.0 | 401.5 | 401.9 | 402.2 | 402.4 | 402.8 | 403.0 | 402.6 |
| 140°   | 416.2 | 416.7 | 417.3 | 417.8 | 418.2 | 418.6 | 418.7 | 418.8 | 418.9 | 419.0 | 418.9 |
| 142.5° | 431.5 | 431.9 | 432.5 | 433.0 | 433.5 | 433.9 | 434.1 | 434.2 | 434.5 | 434.6 | 434.6 |
| 145°   | 455.3 | 455.5 | 455.7 | 455.9 | 456.1 | 456.3 | 456.6 | 457.0 | 457.3 | 457.6 | 457.5 |
| 147.5° | 476.1 | 476.5 | 476.9 | 477.2 | 477.6 | 477.9 | 478.3 | 478.5 | 478.8 | 479.1 | 479.1 |
| 150°   | 490.6 | 490.8 | 491.1 | 491.2 | 491.5 | 491.6 | 491.9 | 492.0 | 492.3 | 492.4 | 492.4 |
| 152.5° | 502.6 | 502.8 | 503.1 | 503.4 | 503.7 | 503.9 | 504.0 | 504.1 | 504.3 | 504.3 | 504.5 |
| 155°   | 521.3 | 521.3 | 521.3 | 521.3 | 521.3 | 521.4 | 521.5 | 521.5 | 521.7 | 521.8 | 522.2 |
| 157.5° | 537.3 | 537.2 | 537.0 | 537.0 | 536.8 | 536.8 | 536.9 | 537.0 | 537.0 | 537.1 | 537.5 |
| 160°   | 547.3 | 547.1 | 546.9 | 546.7 | 546.5 | 546.4 | 546.4 | 546.4 | 546.4 | 546.4 | 546.9 |
| 162.5° | 556.3 | 556.0 | 555.7 | 555.4 | 555.1 | 555.1 | 555.1 | 555.2 | 555.3 | 555.4 | 555.9 |
| 165°   | 567.8 | 567.5 | 567.2 | 566.9 | 566.6 | 566.4 | 566.4 | 566.4 | 566.4 | 566.4 | 567.0 |
| 167.5° | 577.0 | 576.6 | 576.2 | 575.8 | 575.4 | 575.2 | 575.3 | 575.4 | 575.4 | 575.5 | 576.2 |
| 170°   | 582.2 | 581.8 | 581.4 | 581.0 | 580.6 | 580.3 | 580.3 | 580.3 | 580.3 | 580.3 | 581.1 |
| 172.5° | 586.3 | 585.9 | 585.5 | 585.1 | 584.7 | 584.5 | 584.5 | 584.5 | 584.5 | 584.5 | 585.1 |
| 175°   | 590.6 | 590.2 | 589.8 | 589.4 | 589.0 | 588.7 | 588.7 | 588.7 | 588.7 | 588.7 | 589.4 |
| 177.5° | 592.4 | 592.1 | 591.7 | 591.3 | 591.0 | 590.8 | 590.8 | 590.8 | 590.8 | 590.8 | 591.3 |
| 180°   | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 |



TEST NUMBER: P332370-930

CATALOG NUMBER: S123RDIP-S1165D585U930-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1580.2 | 1580.2 | 1580.2 | 1580.2 | 1580.2 | 1580.2 | 1580.2 | 1580.2 |
| 2.5°   | 1573.9 | 1576.5 | 1578.9 | 1580.0 | 1579.5 | 1579.1 | 1578.6 | 1578.1 |
| 5°     | 1563.5 | 1566.1 | 1568.6 | 1569.6 | 1569.0 | 1568.5 | 1567.9 | 1567.3 |
| 7.5°   | 1541.5 | 1543.0 | 1544.3 | 1544.6 | 1543.6 | 1542.6 | 1541.6 | 1540.7 |
| 10°    | 1521.8 | 1522.1 | 1522.4 | 1521.8 | 1520.4 | 1519.0 | 1517.5 | 1516.1 |
| 12.5°  | 1497.3 | 1497.1 | 1497.0 | 1496.1 | 1494.4 | 1492.7 | 1491.1 | 1489.5 |
| 15°    | 1454.3 | 1452.9 | 1451.5 | 1449.8 | 1447.7 | 1445.8 | 1443.7 | 1441.8 |
| 17.5°  | 1403.0 | 1399.9 | 1396.9 | 1393.9 | 1390.9 | 1388.0 | 1385.0 | 1382.0 |
| 20°    | 1367.7 | 1364.0 | 1360.3 | 1356.7 | 1353.3 | 1349.9 | 1346.5 | 1343.1 |
| 22.5°  | 1330.0 | 1325.4 | 1320.8 | 1316.9 | 1313.7 | 1310.5 | 1307.3 | 1304.2 |
| 25°    | 1268.4 | 1262.3 | 1256.4 | 1251.8 | 1248.7 | 1245.5 | 1242.4 | 1239.3 |
| 27.5°  | 1201.1 | 1192.8 | 1184.5 | 1177.9 | 1173.1 | 1168.4 | 1163.6 | 1158.8 |
| 30°    | 1153.2 | 1143.6 | 1133.9 | 1126.8 | 1122.3 | 1117.7 | 1113.1 | 1108.6 |
| 32.5°  | 1106.4 | 1095.8 | 1085.2 | 1077.5 | 1072.7 | 1067.9 | 1063.2 | 1058.3 |
| 35°    | 1036.7 | 1024.4 | 1012.2 | 1003.5 | 998.3  | 993.2  | 988.1  | 983.0  |
| 37.5°  | 961.8  | 947.9  | 934.0  | 923.9  | 917.6  | 911.3  | 905.0  | 898.6  |
| 40°    | 909.8  | 895.0  | 880.2  | 869.5  | 862.9  | 856.4  | 849.9  | 843.3  |
| 42.5°  | 859.9  | 843.7  | 827.5  | 816.5  | 810.7  | 804.8  | 798.9  | 793.0  |
| 45°    | 786.4  | 770.2  | 754.0  | 742.5  | 735.6  | 728.8  | 721.9  | 715.1  |
| 47.5°  | 710.5  | 692.9  | 675.2  | 663.4  | 657.3  | 651.2  | 645.1  | 639.0  |
| 50°    | 659.3  | 641.6  | 623.9  | 611.9  | 605.4  | 598.8  | 592.2  | 585.7  |
| 52.5°  | 609.8  | 591.4  | 573.1  | 560.9  | 555.1  | 549.3  | 543.4  | 537.5  |
| 55°    | 536.0  | 519.4  | 503.0  | 491.9  | 486.2  | 480.5  | 474.7  | 469.0  |
| 57.5°  | 463.5  | 447.8  | 432.3  | 422.0  | 417.2  | 412.4  | 407.5  | 402.7  |
| 60°    | 417.8  | 402.4  | 387.0  | 376.9  | 372.1  | 367.2  | 362.4  | 357.6  |
| 62.5°  | 372.4  | 358.0  | 343.5  | 333.8  | 328.6  | 323.6  | 318.5  | 313.5  |
| 65°    | 307.9  | 293.9  | 280.0  | 271.4  | 268.3  | 265.1  | 262.0  | 258.9  |
| 67.5°  | 246.2  | 235.8  | 225.3  | 218.5  | 215.2  | 211.7  | 208.4  | 205.0  |
| 70°    | 208.1  | 198.2  | 188.3  | 181.7  | 178.6  | 175.5  | 172.3  | 169.2  |
| 72.5°  | 173.9  | 165.8  | 157.6  | 152.9  | 151.6  | 150.3  | 149.0  | 147.7  |
| 75°    | 130.1  | 127.3  | 124.4  | 122.8  | 122.2  | 121.6  | 121.1  | 120.5  |
| 77.5°  | 98.2   | 96.6   | 95.1   | 94.0   | 93.4   | 92.9   | 92.3   | 91.7   |
| 80°    | 79.0   | 78.2   | 77.3   | 76.6   | 76.1   | 75.5   | 74.9   | 74.4   |
| 82.5°  | 60.6   | 59.8   | 58.9   | 58.4   | 58.3   | 58.1   | 58.0   | 58.0   |
| 85°    | 34.7   | 34.2   | 33.6   | 33.3   | 33.3   | 33.3   | 33.3   | 33.3   |
| 87.5°  | 15.2   | 15.2   | 15.0   | 14.8   | 14.6   | 14.4   | 14.3   | 14.1   |
| 90°    | 12.0   | 12.4   | 12.8   | 13.1   | 13.4   | 13.5   | 13.8   | 13.9   |
| 92.5°  | 18.5   | 18.8   | 19.2   | 19.3   | 19.2   | 19.0   | 18.9   | 18.8   |
| 95°    | 35.2   | 35.6   | 36.0   | 36.3   | 36.3   | 36.3   | 36.3   | 36.3   |
| 97.5°  | 54.8   | 55.3   | 55.8   | 55.9   | 55.9   | 55.8   | 55.8   | 55.8   |
| 100°   | 69.0   | 69.3   | 69.6   | 69.9   | 70.0   | 70.3   | 70.4   | 70.7   |
| 102.5° | 85.4   | 85.7   | 85.9   | 86.1   | 86.1   | 86.0   | 86.0   | 85.9   |
| 105°   | 109.7  | 109.7  | 109.7  | 109.8  | 110.1  | 110.2  | 110.5  | 110.7  |
| 107.5° | 136.2  | 136.5  | 136.8  | 137.0  | 136.8  | 136.7  | 136.6  | 136.5  |
| 110°   | 153.8  | 154.3  | 154.7  | 154.7  | 154.6  | 154.3  | 154.2  | 153.9  |





TEST NUMBER: P332370-930

CATALOG NUMBER: S123RDIP-S1165D585U930-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 171.5 | 171.9 | 172.4 | 172.7 | 172.7 | 172.6 | 172.6 | 172.5 |
| 115°   | 198.3 | 198.4 | 198.5 | 198.5 | 198.4 | 198.3 | 198.2 | 198.1 |
| 117.5° | 225.4 | 225.3 | 225.3 | 225.2 | 224.9 | 224.6 | 224.4 | 224.0 |
| 120°   | 243.4 | 243.4 | 243.3 | 243.1 | 242.9 | 242.7 | 242.5 | 242.3 |
| 122.5° | 261.7 | 261.5 | 261.2 | 260.9 | 260.7 | 260.3 | 260.1 | 259.8 |
| 125°   | 288.9 | 288.5 | 288.0 | 287.6 | 287.2 | 286.8 | 286.4 | 286.0 |
| 127.5° | 315.7 | 315.1 | 314.5 | 314.1 | 313.6 | 313.1 | 312.6 | 312.1 |
| 130°   | 333.5 | 333.1 | 332.7 | 332.2 | 331.4 | 330.7 | 330.0 | 329.2 |
| 132.5° | 350.8 | 350.3 | 349.8 | 349.4 | 348.8 | 348.2 | 347.6 | 347.1 |
| 135°   | 376.7 | 376.3 | 375.9 | 375.6 | 375.4 | 375.2 | 375.0 | 374.8 |
| 137.5° | 402.1 | 401.7 | 401.3 | 400.9 | 400.5 | 400.1 | 399.7 | 399.3 |
| 140°   | 418.8 | 418.7 | 418.6 | 418.2 | 417.4 | 416.7 | 416.0 | 415.3 |
| 142.5° | 434.4 | 434.3 | 434.2 | 433.9 | 433.3 | 432.8 | 432.2 | 431.6 |
| 145°   | 457.4 | 457.3 | 457.2 | 456.9 | 456.5 | 456.1 | 455.7 | 455.3 |
| 147.5° | 479.1 | 479.1 | 479.1 | 478.7 | 478.2 | 477.5 | 477.0 | 476.3 |
| 150°   | 492.4 | 492.4 | 492.4 | 492.2 | 491.5 | 490.9 | 490.3 | 489.7 |
| 152.5° | 504.8 | 504.9 | 505.1 | 504.8 | 504.3 | 503.8 | 503.3 | 502.7 |
| 155°   | 522.6 | 523.0 | 523.4 | 523.3 | 522.5 | 521.8 | 521.1 | 520.4 |
| 157.5° | 538.0 | 538.4 | 538.8 | 538.7 | 538.2 | 537.6 | 537.0 | 536.5 |
| 160°   | 547.5 | 548.0 | 548.5 | 548.5 | 548.1 | 547.7 | 547.3 | 546.9 |
| 162.5° | 556.4 | 556.9 | 557.4 | 557.3 | 556.7 | 556.0 | 555.4 | 554.7 |
| 165°   | 567.7 | 568.3 | 568.9 | 568.8 | 568.1 | 567.4 | 566.7 | 566.0 |
| 167.5° | 576.8 | 577.5 | 578.1 | 578.1 | 577.5 | 576.8 | 576.2 | 575.5 |
| 170°   | 581.8 | 582.5 | 583.3 | 583.3 | 582.5 | 581.8 | 581.1 | 580.3 |
| 172.5° | 585.7 | 586.4 | 587.0 | 587.0 | 586.3 | 585.5 | 584.8 | 584.1 |
| 175°   | 590.0 | 590.6 | 591.3 | 591.2 | 590.4 | 589.7 | 589.0 | 588.2 |
| 177.5° | 591.9 | 592.4 | 592.9 | 592.8 | 592.2 | 591.7 | 591.1 | 590.5 |
| 180°   | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 |

(END OF REPORT)