

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: P332079-830

Luminaire Tested: **S123DIP-S1165D1025U830-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332079-830
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: S123DIP-S1165D1025U830-4F0-1E-UDD-F1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7805.6 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: General Diffuse

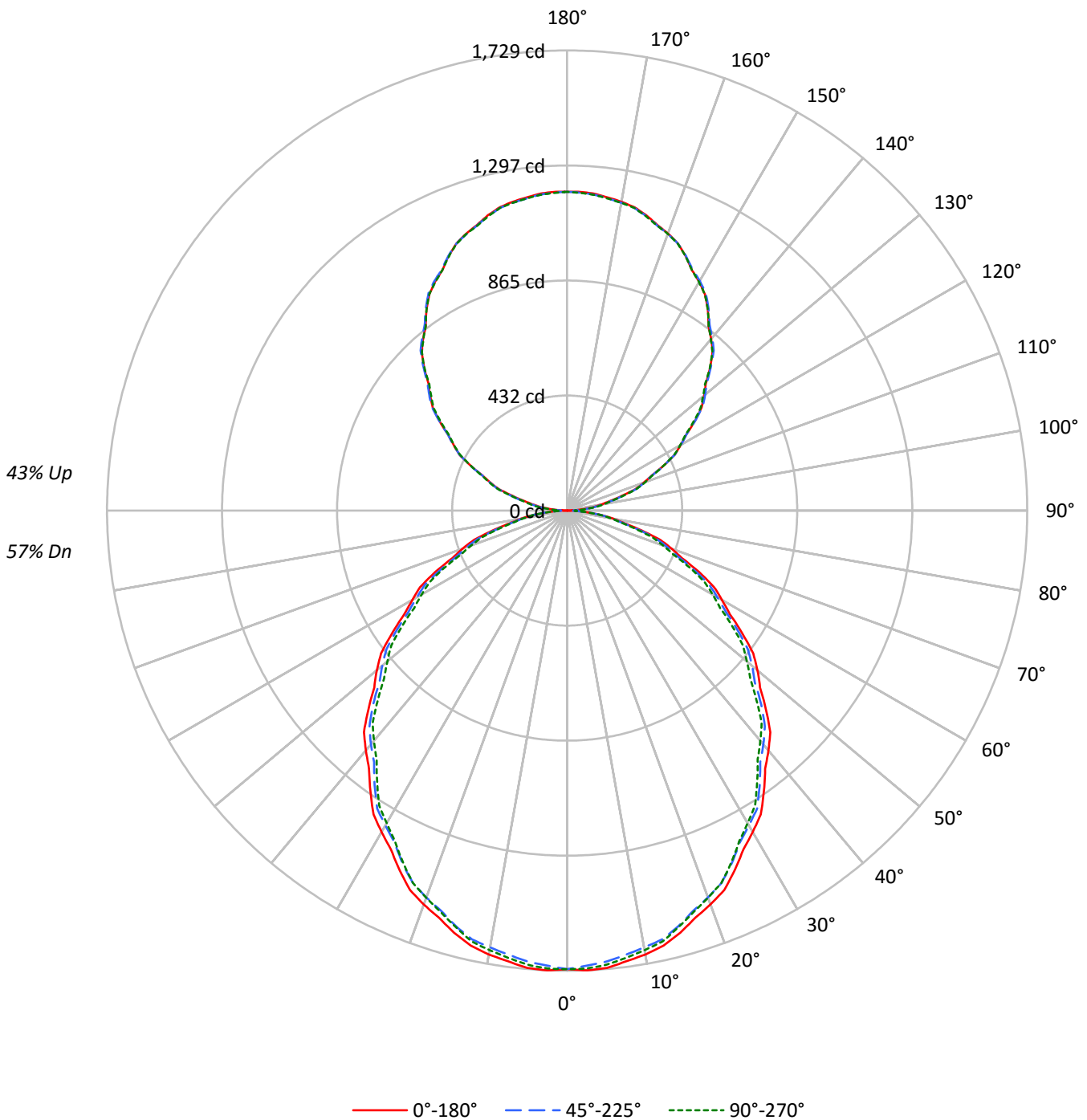
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332079-830

CATALOG NUMBER: S123DIP-S1165D1025U830-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332079-830

CATALOG NUMBER: S123DIP-S1165D1025U830-4F0-1E-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 | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 75 | 75 | 75 | 63 | 63 | 63 | 57 |
| 1 | 99 | 95 | 91 | 87 | 92 | 89 | 85 | 82 | 77 | 74 | 72 | 66 | 64 | 62 | 56 | 54 | 53 | 48 |
| 2 | 90 | 83 | 77 | 71 | 84 | 77 | 72 | 67 | 67 | 63 | 59 | 58 | 55 | 52 | 49 | 47 | 45 | 40 |
| 3 | 83 | 73 | 65 | 59 | 77 | 68 | 62 | 56 | 59 | 54 | 50 | 51 | 47 | 44 | 43 | 40 | 38 | 34 |
| 4 | 76 | 65 | 56 | 50 | 70 | 60 | 53 | 48 | 53 | 47 | 43 | 45 | 41 | 38 | 39 | 35 | 33 | 29 |
| 5 | 69 | 57 | 49 | 43 | 64 | 54 | 46 | 41 | 47 | 41 | 37 | 41 | 36 | 33 | 35 | 31 | 28 | 25 |
| 6 | 64 | 52 | 43 | 37 | 59 | 48 | 41 | 36 | 42 | 36 | 32 | 37 | 32 | 29 | 32 | 28 | 25 | 22 |
| 7 | 59 | 47 | 39 | 33 | 55 | 44 | 37 | 31 | 39 | 33 | 28 | 34 | 29 | 25 | 29 | 25 | 22 | 20 |
| 8 | 55 | 42 | 35 | 29 | 51 | 40 | 33 | 28 | 35 | 29 | 25 | 31 | 26 | 23 | 27 | 23 | 20 | 18 |
| 9 | 51 | 39 | 31 | 26 | 48 | 37 | 30 | 25 | 32 | 27 | 23 | 28 | 24 | 20 | 24 | 21 | 18 | 16 |
| 10 | 48 | 36 | 28 | 23 | 45 | 34 | 27 | 22 | 30 | 24 | 20 | 26 | 22 | 18 | 23 | 19 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 18547 | 18547 | 18547 |
| 5° | 18634 | 18377 | 18506 |
| 10° | 18510 | 18218 | 18332 |
| 15° | 18293 | 18013 | 18046 |
| 20° | 18040 | 17718 | 17734 |
| 25° | 17701 | 17368 | 17332 |
| 30° | 17329 | 16978 | 16850 |
| 35° | 16938 | 16567 | 16353 |
| 40° | 16530 | 16114 | 15864 |
| 45° | 16081 | 15696 | 15314 |
| 50° | 15630 | 15183 | 14763 |
| 55° | 15041 | 14653 | 14208 |
| 60° | 14449 | 14034 | 13586 |
| 65° | 13924 | 13359 | 12944 |
| 70° | 13149 | 12589 | 12032 |
| 75° | 12015 | 11582 | 11088 |
| 80° | 10835 | 10377 | 10290 |
| 85° | 9510 | 9152 | 8793 |



TEST NUMBER: P332079-830

CATALOG NUMBER: S123DIP-S1165D1025U830-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 162.3 | 2.1 |
| 10°-20° | 458.3 | 5.9 |
| 20°-30° | 677.0 | 8.7 |
| 30°-40° | 790.8 | 10.1 |
| 40°-50° | 795.1 | 10.2 |
| 50°-60° | 698.4 | 8.9 |
| 60°-70° | 520.3 | 6.7 |
| 70°-80° | 296.4 | 3.8 |
| 80°-90° | 88.6 | 1.1 |
| 90°-100° | 78.0 | 1.0 |
| 100°-110° | 233.5 | 3.0 |
| 110°-120° | 397.2 | 5.1 |
| 120°-130° | 522.5 | 6.7 |
| 130°-140° | 587.2 | 7.5 |
| 140°-150° | 577.2 | 7.4 |
| 150°-160° | 486.0 | 6.2 |
| 160°-170° | 323.5 | 4.1 |
| 170°-180° | 113.3 | 1.5 |
| 0°-30° | 1297.6 | 16.6 |
| 0°-40° | 2088.4 | 26.8 |
| 0°-60° | 3581.8 | 45.9 |
| 0°-90° | 4487.2 | 57.5 |
| 90°-120° | 708.8 | 9.1 |
| 90°-150° | 2395.7 | 30.7 |
| 90°-180° | 3318.0 | 42.5 |
| 0°-180° | 7805.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1723 | 1723 | 1723 | 1723 | 1723 | |
| 5° | 1725 | 1717 | 1701 | 1715 | 1713 | 163 |
| 15° | 1642 | 1635 | 1616 | 1627 | 1619 | 463 |
| 25° | 1490 | 1481 | 1462 | 1464 | 1459 | 686 |
| 35° | 1289 | 1280 | 1261 | 1252 | 1244 | 806 |
| 45° | 1056 | 1050 | 1031 | 1014 | 1006 | 815 |
| 55° | 802 | 799 | 781 | 765 | 757 | 718 |
| 65° | 547 | 539 | 524 | 513 | 508 | 539 |
| 75° | 289 | 283 | 278 | 271 | 267 | 309 |
| 85° | 77 | 74 | 74 | 71 | 71 | 85 |
| 90° | 1 | 10 | 23 | 26 | 28 | 8 |
| 95° | 56 | 62 | 70 | 73 | 73 | 62 |
| 105° | 212 | 214 | 222 | 222 | 224 | 227 |
| 115° | 400 | 402 | 401 | 402 | 401 | 395 |
| 125° | 585 | 588 | 586 | 582 | 579 | 522 |
| 135° | 759 | 765 | 764 | 760 | 758 | 585 |
| 145° | 921 | 923 | 926 | 925 | 921 | 575 |
| 155° | 1055 | 1055 | 1056 | 1059 | 1053 | 485 |
| 165° | 1149 | 1146 | 1146 | 1151 | 1145 | 324 |
| 175° | 1195 | 1191 | 1191 | 1196 | 1190 | 113 |
| 180° | 1198 | 1198 | 1198 | 1198 | 1198 | |



TEST NUMBER: P332079-830

CATALOG NUMBER: S123DIP-S1165D1025U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1723.1 | 1723.1 | 1723.1 | 1723.1 | 1723.1 | 1723.1 | 1723.1 | 1723.1 | 1723.1 | 1723.1 | 1723.1 |
| 2.5° | 1729.0 | 1728.0 | 1726.9 | 1725.9 | 1724.8 | 1722.8 | 1720.0 | 1717.0 | 1714.1 | 1711.2 | 1713.8 |
| 5° | 1724.6 | 1723.0 | 1721.3 | 1719.7 | 1718.0 | 1715.3 | 1711.8 | 1708.1 | 1704.5 | 1700.8 | 1704.1 |
| 7.5° | 1707.7 | 1706.0 | 1704.4 | 1702.7 | 1701.1 | 1698.4 | 1694.6 | 1690.9 | 1687.2 | 1683.4 | 1686.3 |
| 10° | 1693.5 | 1691.8 | 1690.2 | 1688.5 | 1686.9 | 1683.9 | 1679.6 | 1675.4 | 1671.0 | 1666.8 | 1669.7 |
| 12.5° | 1674.5 | 1673.1 | 1671.7 | 1670.4 | 1669.0 | 1666.2 | 1662.3 | 1658.2 | 1654.2 | 1650.2 | 1652.4 |
| 15° | 1641.6 | 1640.3 | 1639.0 | 1637.7 | 1636.3 | 1633.5 | 1629.3 | 1624.9 | 1620.7 | 1616.4 | 1619.0 |
| 17.5° | 1603.4 | 1601.7 | 1600.0 | 1598.3 | 1596.5 | 1593.6 | 1589.2 | 1585.0 | 1580.6 | 1576.4 | 1578.3 |
| 20° | 1574.9 | 1572.9 | 1570.9 | 1569.0 | 1567.1 | 1563.9 | 1559.6 | 1555.4 | 1551.0 | 1546.8 | 1548.1 |
| 22.5° | 1542.9 | 1541.0 | 1539.0 | 1537.0 | 1535.0 | 1531.9 | 1527.6 | 1523.3 | 1519.1 | 1514.8 | 1515.8 |
| 25° | 1490.4 | 1488.5 | 1486.5 | 1484.5 | 1482.6 | 1479.4 | 1475.2 | 1470.9 | 1466.6 | 1462.4 | 1462.6 |
| 27.5° | 1434.5 | 1432.6 | 1430.7 | 1428.7 | 1426.8 | 1423.6 | 1419.0 | 1414.4 | 1409.8 | 1405.1 | 1405.4 |
| 30° | 1394.2 | 1392.5 | 1390.9 | 1389.2 | 1387.6 | 1384.5 | 1379.9 | 1375.3 | 1370.6 | 1366.0 | 1366.0 |
| 32.5° | 1353.9 | 1351.7 | 1349.5 | 1347.4 | 1345.2 | 1342.3 | 1338.8 | 1335.2 | 1331.6 | 1328.1 | 1326.3 |
| 35° | 1289.0 | 1287.0 | 1285.1 | 1283.1 | 1281.1 | 1278.0 | 1273.7 | 1269.4 | 1265.1 | 1260.8 | 1258.9 |
| 37.5° | 1222.6 | 1220.1 | 1217.6 | 1215.1 | 1212.6 | 1209.2 | 1204.9 | 1200.5 | 1196.2 | 1191.8 | 1189.4 |
| 40° | 1176.4 | 1174.4 | 1172.4 | 1170.4 | 1168.5 | 1165.2 | 1160.6 | 1155.9 | 1151.3 | 1146.8 | 1144.2 |
| 42.5° | 1130.1 | 1127.9 | 1125.7 | 1123.4 | 1121.2 | 1117.8 | 1113.1 | 1108.5 | 1103.9 | 1099.4 | 1096.7 |
| 45° | 1056.4 | 1055.1 | 1053.8 | 1052.4 | 1051.1 | 1048.3 | 1044.1 | 1039.7 | 1035.5 | 1031.1 | 1027.3 |
| 47.5° | 983.2 | 981.3 | 979.4 | 977.4 | 975.5 | 972.6 | 968.6 | 964.5 | 960.5 | 956.5 | 952.6 |
| 50° | 933.4 | 931.8 | 930.1 | 928.5 | 926.8 | 923.9 | 919.5 | 915.3 | 911.0 | 906.7 | 903.1 |
| 52.5° | 881.3 | 880.1 | 879.0 | 877.9 | 876.8 | 873.9 | 869.4 | 864.9 | 860.4 | 855.7 | 852.6 |
| 55° | 801.5 | 801.3 | 800.9 | 800.6 | 800.2 | 798.0 | 793.6 | 789.4 | 785.0 | 780.8 | 777.2 |
| 57.5° | 725.7 | 724.5 | 723.4 | 722.4 | 721.2 | 719.0 | 715.5 | 712.1 | 708.7 | 705.2 | 702.0 |
| 60° | 671.2 | 670.8 | 670.5 | 670.1 | 669.9 | 667.7 | 663.7 | 659.8 | 655.8 | 651.9 | 648.9 |
| 62.5° | 622.5 | 621.7 | 620.9 | 620.0 | 619.2 | 616.7 | 612.7 | 608.8 | 604.9 | 601.0 | 597.9 |
| 65° | 546.7 | 545.1 | 543.4 | 541.8 | 540.1 | 537.6 | 534.3 | 531.0 | 527.7 | 524.5 | 521.9 |
| 67.5° | 466.4 | 465.0 | 463.5 | 462.0 | 460.6 | 458.6 | 456.1 | 453.6 | 451.1 | 448.7 | 446.3 |
| 70° | 417.8 | 415.8 | 413.9 | 411.9 | 409.9 | 407.9 | 406.0 | 404.0 | 402.0 | 400.0 | 397.8 |
| 72.5° | 366.8 | 365.4 | 363.9 | 362.5 | 361.1 | 359.2 | 356.9 | 354.7 | 352.5 | 350.2 | 348.2 |
| 75° | 288.9 | 287.6 | 286.3 | 284.9 | 283.6 | 282.5 | 281.5 | 280.5 | 279.6 | 278.5 | 276.9 |
| 77.5° | 219.9 | 219.1 | 218.4 | 217.7 | 217.0 | 216.0 | 214.8 | 213.7 | 212.4 | 211.3 | 210.2 |
| 80° | 174.8 | 173.8 | 172.9 | 171.8 | 170.9 | 170.0 | 169.4 | 168.7 | 168.1 | 167.4 | 167.1 |
| 82.5° | 131.0 | 130.7 | 130.5 | 130.4 | 130.2 | 130.0 | 129.9 | 129.8 | 129.6 | 129.5 | 128.9 |
| 85° | 77.0 | 76.3 | 75.7 | 75.0 | 74.4 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 73.4 |
| 87.5° | 31.0 | 30.6 | 30.3 | 29.9 | 29.5 | 29.5 | 29.8 | 30.1 | 30.3 | 30.6 | 30.5 |
| 90° | 0.9 | 3.0 | 5.1 | 7.3 | 9.3 | 11.7 | 14.4 | 17.2 | 19.9 | 22.6 | 23.4 |
| 92.5° | 22.8 | 24.2 | 25.6 | 27.1 | 28.5 | 30.0 | 31.5 | 33.0 | 34.6 | 36.1 | 36.8 |
| 95° | 55.5 | 56.9 | 58.4 | 59.9 | 61.4 | 63.0 | 64.6 | 66.3 | 68.0 | 69.7 | 70.5 |
| 97.5° | 98.6 | 99.7 | 100.8 | 101.9 | 102.9 | 104.1 | 105.3 | 106.5 | 107.7 | 109.0 | 109.9 |
| 100° | 128.0 | 129.2 | 130.4 | 131.7 | 133.0 | 134.1 | 135.2 | 136.2 | 137.2 | 138.3 | 138.9 |
| 102.5° | 161.8 | 162.6 | 163.3 | 164.1 | 164.9 | 165.9 | 167.3 | 168.6 | 170.0 | 171.4 | 172.0 |
| 105° | 211.7 | 212.1 | 212.5 | 212.9 | 213.4 | 214.5 | 216.4 | 218.3 | 220.2 | 222.1 | 222.1 |
| 107.5° | 269.7 | 269.9 | 270.1 | 270.4 | 270.7 | 271.2 | 271.9 | 272.7 | 273.4 | 274.2 | 274.8 |
| 110° | 305.8 | 306.2 | 306.6 | 307.0 | 307.5 | 307.8 | 308.3 | 308.7 | 309.2 | 309.5 | 310.4 |



TEST NUMBER: P332079-830

CATALOG NUMBER: S123DIP-S1165D1025U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 343.4 | 343.7 | 343.9 | 344.1 | 344.4 | 344.6 | 344.7 | 344.8 | 344.9 | 344.9 | 345.9 |
| 115° | 399.8 | 400.5 | 401.1 | 401.7 | 402.4 | 402.5 | 402.1 | 401.6 | 401.2 | 400.8 | 401.1 |
| 117.5° | 456.7 | 457.1 | 457.5 | 458.0 | 458.4 | 458.3 | 457.8 | 457.2 | 456.7 | 456.1 | 456.1 |
| 120° | 492.1 | 493.3 | 494.6 | 495.9 | 497.1 | 497.2 | 496.2 | 495.1 | 494.1 | 493.0 | 492.8 |
| 122.5° | 529.0 | 529.9 | 530.7 | 531.7 | 532.6 | 532.8 | 532.3 | 531.7 | 531.2 | 530.7 | 530.1 |
| 125° | 585.2 | 585.9 | 586.4 | 587.1 | 587.7 | 587.9 | 587.4 | 587.0 | 586.5 | 586.2 | 585.3 |
| 127.5° | 637.2 | 638.5 | 639.8 | 641.1 | 642.5 | 642.9 | 642.4 | 642.1 | 641.6 | 641.1 | 639.9 |
| 130° | 671.8 | 673.4 | 675.1 | 676.7 | 678.4 | 679.0 | 678.3 | 677.7 | 677.1 | 676.5 | 675.6 |
| 132.5° | 706.4 | 708.0 | 709.7 | 711.4 | 713.1 | 713.7 | 713.2 | 712.8 | 712.3 | 711.8 | 710.9 |
| 135° | 759.3 | 760.5 | 761.8 | 763.0 | 764.3 | 764.8 | 764.6 | 764.4 | 764.2 | 763.9 | 763.2 |
| 137.5° | 808.2 | 809.3 | 810.3 | 811.3 | 812.4 | 813.1 | 813.7 | 814.3 | 814.8 | 815.3 | 814.5 |
| 140° | 842.1 | 843.1 | 844.1 | 845.2 | 846.2 | 846.9 | 847.1 | 847.3 | 847.5 | 847.7 | 847.5 |
| 142.5° | 872.9 | 873.9 | 875.1 | 876.1 | 877.1 | 877.8 | 878.2 | 878.5 | 878.9 | 879.3 | 879.1 |
| 145° | 921.1 | 921.5 | 921.9 | 922.4 | 922.7 | 923.3 | 923.9 | 924.5 | 925.2 | 925.8 | 925.6 |
| 147.5° | 963.3 | 964.0 | 964.8 | 965.5 | 966.3 | 967.0 | 967.5 | 968.1 | 968.7 | 969.3 | 969.3 |
| 150° | 992.6 | 993.1 | 993.4 | 993.8 | 994.3 | 994.7 | 995.1 | 995.5 | 996.0 | 996.4 | 996.4 |
| 152.5° | 1016.7 | 1017.3 | 1017.9 | 1018.4 | 1019.0 | 1019.5 | 1019.7 | 1019.9 | 1020.2 | 1020.5 | 1020.8 |
| 155° | 1054.7 | 1054.7 | 1054.7 | 1054.7 | 1054.7 | 1054.8 | 1055.0 | 1055.2 | 1055.5 | 1055.6 | 1056.5 |
| 157.5° | 1087.0 | 1086.8 | 1086.6 | 1086.3 | 1086.1 | 1086.0 | 1086.2 | 1086.4 | 1086.6 | 1086.7 | 1087.6 |
| 160° | 1107.4 | 1106.9 | 1106.5 | 1106.2 | 1105.7 | 1105.5 | 1105.5 | 1105.5 | 1105.5 | 1105.5 | 1106.5 |
| 162.5° | 1125.5 | 1124.8 | 1124.3 | 1123.7 | 1123.1 | 1122.9 | 1123.0 | 1123.2 | 1123.4 | 1123.6 | 1124.6 |
| 165° | 1148.8 | 1148.1 | 1147.5 | 1146.9 | 1146.3 | 1145.9 | 1145.9 | 1145.9 | 1145.9 | 1145.9 | 1147.2 |
| 167.5° | 1167.4 | 1166.6 | 1165.7 | 1164.9 | 1164.0 | 1163.8 | 1163.9 | 1164.0 | 1164.2 | 1164.4 | 1165.7 |
| 170° | 1178.0 | 1177.1 | 1176.3 | 1175.4 | 1174.6 | 1174.2 | 1174.2 | 1174.2 | 1174.2 | 1174.2 | 1175.6 |
| 172.5° | 1186.2 | 1185.4 | 1184.6 | 1183.7 | 1182.9 | 1182.4 | 1182.4 | 1182.4 | 1182.4 | 1182.4 | 1183.7 |
| 175° | 1194.9 | 1194.0 | 1193.2 | 1192.4 | 1191.6 | 1191.1 | 1191.1 | 1191.1 | 1191.1 | 1191.1 | 1192.4 |
| 177.5° | 1198.4 | 1197.8 | 1197.1 | 1196.5 | 1195.8 | 1195.4 | 1195.4 | 1195.4 | 1195.4 | 1195.4 | 1196.5 |
| 180° | 1197.7 | 1197.7 | 1197.7 | 1197.7 | 1197.7 | 1197.7 | 1197.7 | 1197.7 | 1197.7 | 1197.7 | 1197.7 |



TEST NUMBER: P332079-830

CATALOG NUMBER: S123DIP-S1165D1025U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1723.1 | 1723.1 | 1723.1 | 1723.1 | 1723.1 | 1723.1 | 1723.1 | 1723.1 |
| 2.5° | 1716.5 | 1719.1 | 1721.7 | 1723.0 | 1722.7 | 1722.4 | 1722.1 | 1721.9 |
| 5° | 1707.4 | 1710.7 | 1714.0 | 1715.3 | 1714.7 | 1714.0 | 1713.4 | 1712.7 |
| 7.5° | 1689.3 | 1692.2 | 1695.3 | 1696.5 | 1696.1 | 1695.7 | 1695.4 | 1695.0 |
| 10° | 1672.7 | 1675.7 | 1678.7 | 1679.8 | 1679.1 | 1678.5 | 1677.8 | 1677.2 |
| 12.5° | 1654.5 | 1656.7 | 1658.9 | 1659.8 | 1659.3 | 1659.0 | 1658.6 | 1658.2 |
| 15° | 1621.6 | 1624.3 | 1626.9 | 1627.3 | 1625.3 | 1623.3 | 1621.4 | 1619.4 |
| 17.5° | 1580.1 | 1582.0 | 1583.8 | 1584.3 | 1583.7 | 1582.9 | 1582.2 | 1581.5 |
| 20° | 1549.4 | 1550.8 | 1552.1 | 1552.2 | 1551.2 | 1550.2 | 1549.3 | 1548.2 |
| 22.5° | 1516.9 | 1518.0 | 1519.0 | 1518.9 | 1517.7 | 1516.4 | 1515.1 | 1513.9 |
| 25° | 1463.0 | 1463.3 | 1463.7 | 1463.3 | 1462.4 | 1461.3 | 1460.4 | 1459.3 |
| 27.5° | 1405.7 | 1405.9 | 1406.2 | 1405.7 | 1404.5 | 1403.2 | 1401.9 | 1400.7 |
| 30° | 1366.0 | 1366.0 | 1366.0 | 1364.9 | 1362.5 | 1360.3 | 1357.9 | 1355.7 |
| 32.5° | 1324.4 | 1322.6 | 1320.7 | 1319.2 | 1318.0 | 1316.6 | 1315.4 | 1314.2 |
| 35° | 1256.9 | 1254.9 | 1252.9 | 1251.1 | 1249.4 | 1247.8 | 1246.1 | 1244.5 |
| 37.5° | 1187.0 | 1184.7 | 1182.3 | 1180.6 | 1179.5 | 1178.5 | 1177.4 | 1176.4 |
| 40° | 1141.5 | 1138.9 | 1136.2 | 1134.3 | 1132.9 | 1131.6 | 1130.3 | 1129.0 |
| 42.5° | 1094.1 | 1091.5 | 1088.8 | 1086.8 | 1085.5 | 1084.2 | 1082.9 | 1081.6 |
| 45° | 1023.3 | 1019.4 | 1015.4 | 1012.6 | 1011.0 | 1009.3 | 1007.7 | 1006.0 |
| 47.5° | 948.8 | 944.9 | 940.9 | 938.3 | 936.9 | 935.4 | 934.0 | 932.6 |
| 50° | 899.5 | 895.9 | 892.2 | 889.5 | 887.5 | 885.5 | 883.5 | 881.6 |
| 52.5° | 849.6 | 846.5 | 843.4 | 840.8 | 838.9 | 836.9 | 834.9 | 832.9 |
| 55° | 773.5 | 770.0 | 766.3 | 763.6 | 762.0 | 760.3 | 758.7 | 757.1 |
| 57.5° | 698.8 | 695.6 | 692.3 | 689.8 | 687.9 | 686.0 | 684.0 | 682.1 |
| 60° | 646.0 | 643.0 | 640.1 | 637.7 | 636.1 | 634.4 | 632.8 | 631.1 |
| 62.5° | 595.0 | 592.0 | 589.1 | 587.0 | 585.9 | 584.8 | 583.7 | 582.6 |
| 65° | 519.2 | 516.6 | 514.0 | 512.2 | 511.1 | 510.2 | 509.2 | 508.2 |
| 67.5° | 444.0 | 441.7 | 439.4 | 437.5 | 436.2 | 434.8 | 433.4 | 432.1 |
| 70° | 395.4 | 393.1 | 390.8 | 388.8 | 387.2 | 385.5 | 383.9 | 382.3 |
| 72.5° | 346.2 | 344.1 | 342.0 | 340.6 | 339.8 | 338.9 | 338.1 | 337.2 |
| 75° | 275.2 | 273.6 | 271.9 | 270.6 | 269.7 | 268.6 | 267.7 | 266.6 |
| 77.5° | 209.1 | 207.9 | 206.8 | 206.2 | 206.2 | 206.2 | 206.2 | 206.2 |
| 80° | 166.7 | 166.5 | 166.1 | 166.0 | 166.0 | 166.0 | 166.0 | 166.0 |
| 82.5° | 128.3 | 127.7 | 127.1 | 126.7 | 126.4 | 126.2 | 125.9 | 125.6 |
| 85° | 72.8 | 72.1 | 71.4 | 71.2 | 71.2 | 71.2 | 71.2 | 71.2 |
| 87.5° | 30.4 | 30.3 | 30.2 | 30.2 | 30.3 | 30.3 | 30.4 | 30.5 |
| 90° | 24.2 | 25.1 | 25.9 | 26.6 | 27.0 | 27.4 | 27.8 | 28.2 |
| 92.5° | 37.5 | 38.2 | 38.8 | 39.0 | 38.7 | 38.5 | 38.3 | 38.0 |
| 95° | 71.3 | 72.1 | 73.0 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 |
| 97.5° | 110.8 | 111.9 | 112.8 | 113.2 | 113.2 | 113.1 | 113.0 | 112.9 |
| 100° | 139.6 | 140.2 | 140.8 | 141.4 | 141.8 | 142.1 | 142.6 | 143.0 |
| 102.5° | 172.7 | 173.3 | 173.9 | 174.2 | 174.1 | 174.0 | 174.0 | 173.9 |
| 105° | 222.1 | 222.1 | 222.1 | 222.3 | 222.6 | 223.1 | 223.5 | 223.9 |
| 107.5° | 275.5 | 276.2 | 276.8 | 277.0 | 276.8 | 276.5 | 276.3 | 276.1 |
| 110° | 311.2 | 312.1 | 312.9 | 313.1 | 312.6 | 312.3 | 311.9 | 311.4 |



TEST NUMBER: P332079-830

CATALOG NUMBER: S123DIP-S1165D1025U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 346.9 | 347.9 | 348.9 | 349.4 | 349.3 | 349.2 | 349.1 | 349.0 |
| 115° | 401.2 | 401.4 | 401.6 | 401.6 | 401.4 | 401.2 | 401.1 | 400.8 |
| 117.5° | 456.0 | 456.0 | 456.0 | 455.6 | 455.1 | 454.5 | 453.9 | 453.3 |
| 120° | 492.6 | 492.4 | 492.2 | 491.8 | 491.4 | 491.1 | 490.6 | 490.2 |
| 122.5° | 529.5 | 529.0 | 528.5 | 527.9 | 527.4 | 526.7 | 526.1 | 525.6 |
| 125° | 584.5 | 583.6 | 582.8 | 581.9 | 581.2 | 580.3 | 579.5 | 578.6 |
| 127.5° | 638.8 | 637.6 | 636.4 | 635.4 | 634.4 | 633.4 | 632.4 | 631.5 |
| 130° | 674.8 | 673.9 | 673.2 | 671.9 | 670.5 | 669.0 | 667.6 | 666.1 |
| 132.5° | 709.8 | 708.9 | 707.8 | 706.8 | 705.7 | 704.6 | 703.4 | 702.3 |
| 135° | 762.3 | 761.5 | 760.6 | 760.0 | 759.6 | 759.1 | 758.7 | 758.4 |
| 137.5° | 813.6 | 812.8 | 811.8 | 811.0 | 810.2 | 809.4 | 808.6 | 807.9 |
| 140° | 847.3 | 847.1 | 846.9 | 846.0 | 844.6 | 843.1 | 841.7 | 840.2 |
| 142.5° | 878.9 | 878.7 | 878.4 | 877.8 | 876.7 | 875.5 | 874.4 | 873.3 |
| 145° | 925.4 | 925.2 | 924.9 | 924.4 | 923.6 | 922.7 | 921.9 | 921.1 |
| 147.5° | 969.3 | 969.3 | 969.3 | 968.7 | 967.4 | 966.1 | 964.9 | 963.7 |
| 150° | 996.4 | 996.4 | 996.4 | 995.7 | 994.5 | 993.3 | 991.9 | 990.7 |
| 152.5° | 1021.2 | 1021.4 | 1021.8 | 1021.4 | 1020.3 | 1019.3 | 1018.1 | 1017.1 |
| 155° | 1057.3 | 1058.2 | 1058.9 | 1058.7 | 1057.2 | 1055.7 | 1054.2 | 1052.8 |
| 157.5° | 1088.4 | 1089.3 | 1090.2 | 1090.1 | 1088.9 | 1087.7 | 1086.6 | 1085.3 |
| 160° | 1107.6 | 1108.6 | 1109.7 | 1109.7 | 1109.0 | 1108.1 | 1107.3 | 1106.5 |
| 162.5° | 1125.7 | 1126.7 | 1127.8 | 1127.6 | 1126.2 | 1124.9 | 1123.6 | 1122.3 |
| 165° | 1148.5 | 1149.7 | 1150.9 | 1150.8 | 1149.4 | 1147.9 | 1146.5 | 1145.0 |
| 167.5° | 1167.0 | 1168.3 | 1169.6 | 1169.6 | 1168.3 | 1167.0 | 1165.7 | 1164.4 |
| 170° | 1177.1 | 1178.6 | 1180.1 | 1180.1 | 1178.6 | 1177.1 | 1175.6 | 1174.2 |
| 172.5° | 1185.1 | 1186.4 | 1187.6 | 1187.6 | 1186.1 | 1184.7 | 1183.2 | 1181.7 |
| 175° | 1193.6 | 1194.9 | 1196.2 | 1196.0 | 1194.6 | 1193.1 | 1191.7 | 1190.1 |
| 177.5° | 1197.5 | 1198.4 | 1199.5 | 1199.4 | 1198.3 | 1197.0 | 1195.9 | 1194.7 |
| 180° | 1197.7 | 1197.7 | 1197.7 | 1197.7 | 1197.7 | 1197.7 | 1197.7 | 1197.7 |

(END OF REPORT)