

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: P332051

Luminaire Tested: **S123DIP-S1165D365U835-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332051
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1165D365U835-4F0-1E-UDD-F
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6208.8 lumens
Efficiency: N/A
Efficacy: 124.7 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: Semi-Direct

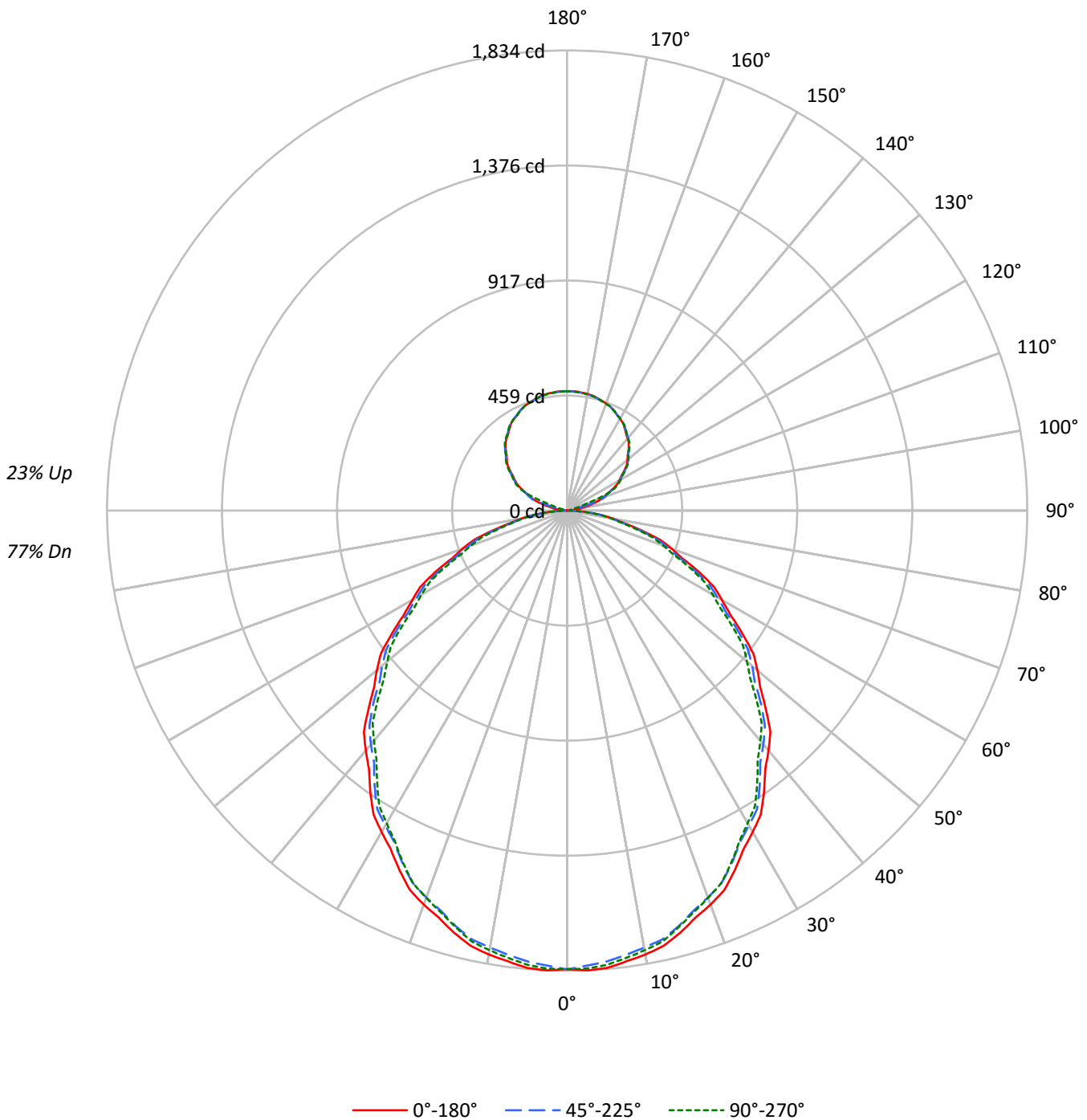
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332051

CATALOG NUMBER: S123DIP-S1165D365U835-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332051

CATALOG NUMBER: S123DIP-S1165D365U835-4F0-1E-UDD-F

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 | 113 | 113 | 113 | 113 | 108 | 108 | 108 | 108 | 98 | 98 | 98 | 89 | 89 | 89 | 81 | 81 | 81 | 77 |
| 1 | 104 | 99 | 95 | 91 | 99 | 95 | 91 | 88 | 86 | 83 | 81 | 78 | 76 | 74 | 71 | 69 | 68 | 64 |
| 2 | 94 | 87 | 80 | 75 | 90 | 83 | 77 | 72 | 75 | 71 | 67 | 69 | 65 | 62 | 63 | 60 | 57 | 54 |
| 3 | 86 | 76 | 68 | 62 | 82 | 73 | 66 | 60 | 67 | 61 | 56 | 61 | 56 | 52 | 55 | 52 | 49 | 46 |
| 4 | 79 | 67 | 59 | 53 | 75 | 65 | 57 | 51 | 59 | 53 | 48 | 54 | 49 | 45 | 50 | 45 | 42 | 39 |
| 5 | 73 | 60 | 52 | 45 | 69 | 58 | 50 | 44 | 53 | 47 | 42 | 49 | 43 | 39 | 45 | 40 | 37 | 34 |
| 6 | 67 | 54 | 46 | 40 | 64 | 52 | 44 | 38 | 48 | 41 | 36 | 44 | 39 | 34 | 41 | 36 | 32 | 30 |
| 7 | 62 | 49 | 41 | 35 | 59 | 47 | 39 | 34 | 44 | 37 | 32 | 40 | 35 | 30 | 37 | 32 | 29 | 26 |
| 8 | 58 | 45 | 37 | 31 | 55 | 43 | 36 | 30 | 40 | 33 | 29 | 37 | 31 | 27 | 34 | 29 | 26 | 24 |
| 9 | 54 | 41 | 33 | 28 | 51 | 40 | 32 | 27 | 37 | 30 | 26 | 34 | 28 | 25 | 31 | 27 | 23 | 21 |
| 10 | 50 | 38 | 30 | 25 | 48 | 36 | 29 | 25 | 34 | 28 | 23 | 31 | 26 | 22 | 29 | 25 | 21 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 19678 | 19678 | 19678 |
| 5° | 19770 | 19498 | 19634 |
| 10° | 19638 | 19329 | 19449 |
| 15° | 19409 | 19110 | 19146 |
| 20° | 19140 | 18798 | 18816 |
| 25° | 18781 | 18427 | 18389 |
| 30° | 18385 | 18013 | 17877 |
| 35° | 17971 | 17578 | 17350 |
| 40° | 17537 | 17096 | 16831 |
| 45° | 17061 | 16653 | 16247 |
| 50° | 16583 | 16109 | 15662 |
| 55° | 15959 | 15546 | 15073 |
| 60° | 15330 | 14889 | 14415 |
| 65° | 14772 | 14174 | 13733 |
| 70° | 13951 | 13357 | 12765 |
| 75° | 12747 | 12289 | 11765 |
| 80° | 11499 | 11009 | 10916 |
| 85° | 10090 | 9707 | 9324 |



TEST NUMBER: P332051

CATALOG NUMBER: S123DIP-S1165D365U835-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 172.2 | 2.8 |
| 10°-20° | 486.2 | 7.8 |
| 20°-30° | 718.3 | 11.6 |
| 30°-40° | 839.0 | 13.5 |
| 40°-50° | 843.5 | 13.6 |
| 50°-60° | 740.9 | 11.9 |
| 60°-70° | 552.0 | 8.9 |
| 70°-80° | 314.5 | 5.1 |
| 80°-90° | 91.6 | 1.5 |
| 90°-100° | 17.3 | 0.3 |
| 100°-110° | 82.4 | 1.3 |
| 110°-120° | 198.0 | 3.2 |
| 120°-130° | 252.1 | 4.1 |
| 130°-140° | 269.3 | 4.3 |
| 140°-150° | 251.9 | 4.1 |
| 150°-160° | 203.2 | 3.3 |
| 160°-170° | 131.1 | 2.1 |
| 170°-180° | 45.2 | 0.7 |
| 0°-30° | 1376.7 | 22.2 |
| 0°-40° | 2215.7 | 35.7 |
| 0°-60° | 3800.2 | 61.2 |
| 0°-90° | 4758.3 | 76.6 |
| 90°-120° | 297.7 | 4.8 |
| 90°-150° | 1071.0 | 17.2 |
| 90°-180° | 1450.0 | 23.4 |
| 0°-180° | 6208.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1828 | 1828 | 1828 | 1828 | 1828 | |
| 5° | 1830 | 1821 | 1804 | 1819 | 1817 | 173 |
| 15° | 1742 | 1735 | 1715 | 1726 | 1718 | 491 |
| 25° | 1581 | 1571 | 1552 | 1553 | 1548 | 728 |
| 35° | 1368 | 1358 | 1338 | 1328 | 1320 | 855 |
| 45° | 1121 | 1114 | 1094 | 1076 | 1067 | 865 |
| 55° | 850 | 848 | 828 | 812 | 803 | 761 |
| 65° | 580 | 572 | 556 | 544 | 539 | 572 |
| 75° | 306 | 300 | 296 | 288 | 283 | 328 |
| 85° | 82 | 79 | 79 | 76 | 76 | 90 |
| 90° | 0 | 4 | 8 | 10 | 11 | 6 |
| 95° | 22 | 8 | 11 | 13 | 13 | 27 |
| 105° | 105 | 107 | 77 | 18 | 16 | 112 |
| 115° | 198 | 200 | 203 | 206 | 208 | 195 |
| 125° | 278 | 281 | 283 | 283 | 284 | 249 |
| 135° | 347 | 349 | 350 | 351 | 350 | 267 |
| 145° | 400 | 402 | 403 | 404 | 404 | 250 |
| 155° | 441 | 440 | 440 | 442 | 440 | 203 |
| 165° | 465 | 464 | 463 | 466 | 464 | 131 |
| 175° | 476 | 474 | 474 | 476 | 474 | 45 |
| 180° | 476 | 476 | 476 | 476 | 476 | |



TEST NUMBER: P332051

CATALOG NUMBER: S123DIP-S1165D365U835-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1828.1 | 1828.1 | 1828.1 | 1828.1 | 1828.1 | 1828.1 | 1828.1 | 1828.1 | 1828.1 | 1828.1 | 1828.1 |
| 2.5° | 1834.4 | 1833.3 | 1832.2 | 1831.1 | 1829.9 | 1827.8 | 1824.8 | 1821.7 | 1818.6 | 1815.5 | 1818.3 |
| 5° | 1829.7 | 1828.0 | 1826.2 | 1824.5 | 1822.7 | 1819.9 | 1816.1 | 1812.2 | 1808.4 | 1804.5 | 1808.0 |
| 7.5° | 1811.8 | 1810.0 | 1808.3 | 1806.5 | 1804.8 | 1801.9 | 1797.9 | 1794.0 | 1790.0 | 1786.0 | 1789.1 |
| 10° | 1796.7 | 1794.9 | 1793.2 | 1791.4 | 1789.7 | 1786.6 | 1782.0 | 1777.5 | 1772.9 | 1768.4 | 1771.5 |
| 12.5° | 1776.6 | 1775.1 | 1773.6 | 1772.2 | 1770.7 | 1767.8 | 1763.6 | 1759.3 | 1755.0 | 1750.8 | 1753.1 |
| 15° | 1741.7 | 1740.3 | 1738.9 | 1737.5 | 1736.1 | 1733.1 | 1728.6 | 1724.0 | 1719.5 | 1714.9 | 1717.7 |
| 17.5° | 1701.1 | 1699.3 | 1697.5 | 1695.7 | 1693.8 | 1690.7 | 1686.1 | 1681.6 | 1677.0 | 1672.5 | 1674.5 |
| 20° | 1670.9 | 1668.8 | 1666.7 | 1664.6 | 1662.6 | 1659.2 | 1654.7 | 1650.2 | 1645.6 | 1641.1 | 1642.5 |
| 22.5° | 1637.0 | 1634.9 | 1632.8 | 1630.7 | 1628.6 | 1625.3 | 1620.7 | 1616.2 | 1611.7 | 1607.1 | 1608.2 |
| 25° | 1581.3 | 1579.2 | 1577.1 | 1575.0 | 1573.0 | 1569.6 | 1565.1 | 1560.6 | 1556.0 | 1551.5 | 1551.8 |
| 27.5° | 1521.9 | 1519.9 | 1517.9 | 1515.8 | 1513.8 | 1510.4 | 1505.5 | 1500.6 | 1495.7 | 1490.8 | 1491.1 |
| 30° | 1479.2 | 1477.4 | 1475.7 | 1473.9 | 1472.2 | 1468.9 | 1464.0 | 1459.1 | 1454.2 | 1449.3 | 1449.3 |
| 32.5° | 1436.4 | 1434.1 | 1431.8 | 1429.5 | 1427.2 | 1424.1 | 1420.4 | 1416.6 | 1412.8 | 1409.1 | 1407.1 |
| 35° | 1367.6 | 1365.5 | 1363.4 | 1361.3 | 1359.2 | 1355.9 | 1351.3 | 1346.8 | 1342.2 | 1337.7 | 1335.6 |
| 37.5° | 1297.1 | 1294.5 | 1291.8 | 1289.2 | 1286.5 | 1282.9 | 1278.3 | 1273.7 | 1269.1 | 1264.4 | 1261.9 |
| 40° | 1248.1 | 1246.0 | 1243.9 | 1241.8 | 1239.7 | 1236.2 | 1231.3 | 1226.4 | 1221.5 | 1216.7 | 1213.9 |
| 42.5° | 1199.0 | 1196.7 | 1194.3 | 1191.9 | 1189.5 | 1185.9 | 1181.0 | 1176.1 | 1171.2 | 1166.4 | 1163.6 |
| 45° | 1120.8 | 1119.4 | 1118.0 | 1116.6 | 1115.2 | 1112.2 | 1107.7 | 1103.1 | 1098.6 | 1094.0 | 1089.9 |
| 47.5° | 1043.1 | 1041.1 | 1039.1 | 1037.0 | 1035.0 | 1031.9 | 1027.6 | 1023.3 | 1019.1 | 1014.8 | 1010.7 |
| 50° | 990.3 | 988.6 | 986.8 | 985.1 | 983.3 | 980.2 | 975.6 | 971.1 | 966.5 | 962.0 | 958.2 |
| 52.5° | 935.0 | 933.8 | 932.6 | 931.4 | 930.2 | 927.2 | 922.4 | 917.6 | 912.8 | 907.9 | 904.6 |
| 55° | 850.4 | 850.1 | 849.7 | 849.4 | 849.0 | 846.6 | 842.0 | 837.5 | 832.9 | 828.4 | 824.6 |
| 57.5° | 769.9 | 768.7 | 767.5 | 766.4 | 765.2 | 762.8 | 759.1 | 755.5 | 751.9 | 748.2 | 744.8 |
| 60° | 712.1 | 711.7 | 711.4 | 711.0 | 710.7 | 708.4 | 704.2 | 700.0 | 695.8 | 691.6 | 688.5 |
| 62.5° | 660.5 | 659.6 | 658.7 | 657.8 | 656.9 | 654.3 | 650.1 | 645.9 | 641.8 | 637.6 | 634.4 |
| 65° | 580.0 | 578.3 | 576.5 | 574.8 | 573.0 | 570.4 | 566.9 | 563.4 | 559.9 | 556.5 | 553.7 |
| 67.5° | 494.8 | 493.3 | 491.8 | 490.2 | 488.7 | 486.6 | 483.9 | 481.3 | 478.6 | 476.0 | 473.5 |
| 70° | 443.3 | 441.2 | 439.1 | 437.0 | 434.9 | 432.8 | 430.7 | 428.6 | 426.5 | 424.4 | 422.0 |
| 72.5° | 389.2 | 387.7 | 386.1 | 384.6 | 383.1 | 381.1 | 378.7 | 376.3 | 374.0 | 371.6 | 369.4 |
| 75° | 306.5 | 305.1 | 303.7 | 302.3 | 300.9 | 299.7 | 298.7 | 297.6 | 296.6 | 295.5 | 293.8 |
| 77.5° | 233.3 | 232.5 | 231.7 | 231.0 | 230.2 | 229.2 | 227.9 | 226.7 | 225.4 | 224.2 | 223.0 |
| 80° | 185.5 | 184.4 | 183.4 | 182.3 | 181.3 | 180.4 | 179.7 | 179.0 | 178.3 | 177.6 | 177.3 |
| 82.5° | 139.0 | 138.7 | 138.5 | 138.3 | 138.1 | 137.9 | 137.8 | 137.7 | 137.5 | 137.4 | 136.8 |
| 85° | 81.7 | 81.0 | 80.3 | 79.6 | 78.9 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 77.9 |
| 87.5° | 32.8 | 32.1 | 31.4 | 30.7 | 30.0 | 29.7 | 29.6 | 29.5 | 29.4 | 29.4 | 29.1 |
| 90° | 0.4 | 1.1 | 1.9 | 2.7 | 3.5 | 4.4 | 5.4 | 6.4 | 7.5 | 8.5 | 8.8 |
| 92.5° | 6.6 | 6.4 | 6.1 | 5.9 | 5.7 | 6.0 | 6.7 | 7.5 | 8.3 | 9.0 | 9.5 |
| 95° | 21.6 | 18.3 | 15.1 | 11.9 | 8.7 | 7.5 | 8.4 | 9.2 | 10.1 | 11.0 | 11.5 |
| 97.5° | 43.3 | 41.9 | 40.4 | 39.0 | 37.5 | 34.0 | 28.3 | 22.7 | 17.0 | 11.4 | 12.0 |
| 100° | 59.7 | 61.3 | 62.9 | 64.4 | 66.0 | 60.7 | 48.4 | 36.2 | 23.9 | 11.7 | 12.3 |
| 102.5° | 78.4 | 79.5 | 80.6 | 81.8 | 82.9 | 76.8 | 63.4 | 50.0 | 36.6 | 23.3 | 21.3 |
| 105° | 105.3 | 106.2 | 107.0 | 107.9 | 108.8 | 105.7 | 98.6 | 91.5 | 84.5 | 77.4 | 63.5 |
| 107.5° | 133.7 | 134.4 | 135.1 | 135.8 | 136.5 | 137.4 | 138.5 | 139.6 | 140.7 | 141.8 | 131.6 |
| 110° | 152.7 | 153.3 | 153.9 | 154.5 | 155.2 | 155.9 | 156.8 | 157.6 | 158.5 | 159.4 | 156.8 |



TEST NUMBER: P332051

CATALOG NUMBER: S123DIP-S1165D365U835-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 170.7 | 171.3 | 171.9 | 172.4 | 173.0 | 173.7 | 174.6 | 175.5 | 176.3 | 177.2 | 177.2 |
| 115° | 197.5 | 198.0 | 198.5 | 198.9 | 199.4 | 200.0 | 200.7 | 201.4 | 202.1 | 202.8 | 203.6 |
| 117.5° | 223.5 | 224.1 | 224.6 | 225.2 | 225.8 | 226.3 | 226.6 | 227.0 | 227.4 | 227.7 | 228.3 |
| 120° | 239.6 | 240.3 | 241.0 | 241.7 | 242.4 | 242.9 | 243.1 | 243.4 | 243.6 | 243.8 | 244.5 |
| 122.5° | 256.0 | 256.6 | 257.1 | 257.7 | 258.3 | 258.7 | 259.0 | 259.3 | 259.6 | 259.9 | 260.4 |
| 125° | 278.5 | 279.1 | 279.7 | 280.3 | 281.0 | 281.4 | 281.8 | 282.1 | 282.4 | 282.7 | 282.9 |
| 127.5° | 300.2 | 300.9 | 301.5 | 302.1 | 302.7 | 303.2 | 303.6 | 304.0 | 304.4 | 304.7 | 305.0 |
| 130° | 313.8 | 314.4 | 315.0 | 315.7 | 316.3 | 316.8 | 317.1 | 317.4 | 317.7 | 318.0 | 318.3 |
| 132.5° | 326.8 | 327.4 | 328.1 | 328.7 | 329.3 | 329.7 | 330.0 | 330.3 | 330.5 | 330.8 | 331.1 |
| 135° | 346.7 | 347.1 | 347.6 | 348.1 | 348.5 | 348.9 | 349.2 | 349.6 | 349.9 | 350.2 | 350.4 |
| 137.5° | 363.6 | 364.2 | 364.8 | 365.4 | 366.0 | 366.4 | 366.6 | 366.7 | 366.9 | 367.1 | 367.5 |
| 140° | 374.9 | 375.4 | 375.9 | 376.3 | 376.8 | 377.2 | 377.4 | 377.6 | 377.9 | 378.1 | 378.4 |
| 142.5° | 385.4 | 385.9 | 386.3 | 386.8 | 387.3 | 387.6 | 387.9 | 388.1 | 388.3 | 388.6 | 388.8 |
| 145° | 400.0 | 400.6 | 401.1 | 401.7 | 402.2 | 402.6 | 402.7 | 402.9 | 403.0 | 403.2 | 403.4 |
| 147.5° | 413.8 | 414.2 | 414.5 | 414.9 | 415.2 | 415.5 | 415.7 | 415.8 | 416.0 | 416.1 | 416.3 |
| 150° | 422.3 | 422.5 | 422.7 | 423.0 | 423.2 | 423.4 | 423.6 | 423.7 | 423.9 | 424.0 | 424.2 |
| 152.5° | 429.9 | 430.0 | 430.1 | 430.2 | 430.3 | 430.5 | 430.5 | 430.6 | 430.7 | 430.8 | 431.1 |
| 155° | 440.7 | 440.5 | 440.3 | 440.2 | 440.0 | 440.0 | 440.1 | 440.1 | 440.2 | 440.3 | 440.7 |
| 157.5° | 449.0 | 449.0 | 449.0 | 448.9 | 448.9 | 448.9 | 448.8 | 448.7 | 448.6 | 448.6 | 449.0 |
| 160° | 454.1 | 454.0 | 453.9 | 453.8 | 453.8 | 453.7 | 453.6 | 453.5 | 453.5 | 453.4 | 453.8 |
| 162.5° | 458.9 | 458.7 | 458.5 | 458.3 | 458.1 | 457.9 | 457.8 | 457.8 | 457.7 | 457.6 | 458.1 |
| 165° | 464.7 | 464.4 | 464.2 | 464.0 | 463.7 | 463.6 | 463.5 | 463.4 | 463.3 | 463.3 | 463.9 |
| 167.5° | 469.2 | 468.9 | 468.6 | 468.3 | 467.9 | 467.8 | 467.8 | 467.8 | 467.8 | 467.8 | 468.4 |
| 170° | 471.7 | 471.4 | 471.1 | 470.8 | 470.5 | 470.3 | 470.3 | 470.3 | 470.3 | 470.3 | 471.0 |
| 172.5° | 473.4 | 473.1 | 472.7 | 472.3 | 471.9 | 471.8 | 471.8 | 471.9 | 472.0 | 472.0 | 472.7 |
| 175° | 475.6 | 475.2 | 474.8 | 474.5 | 474.1 | 473.9 | 474.0 | 474.1 | 474.1 | 474.2 | 474.8 |
| 177.5° | 476.2 | 475.9 | 475.6 | 475.3 | 474.9 | 474.8 | 474.9 | 474.9 | 475.0 | 475.1 | 475.6 |
| 180° | 475.6 | 475.6 | 475.6 | 475.6 | 475.6 | 475.6 | 475.6 | 475.6 | 475.6 | 475.6 | 475.6 |



TEST NUMBER: P332051

CATALOG NUMBER: S123DIP-S1165D365U835-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1828.1 | 1828.1 | 1828.1 | 1828.1 | 1828.1 | 1828.1 | 1828.1 | 1828.1 |
| 2.5° | 1821.1 | 1823.9 | 1826.7 | 1828.0 | 1827.7 | 1827.4 | 1827.1 | 1826.9 |
| 5° | 1811.5 | 1815.0 | 1818.5 | 1819.9 | 1819.2 | 1818.5 | 1817.8 | 1817.1 |
| 7.5° | 1792.3 | 1795.4 | 1798.6 | 1799.9 | 1799.5 | 1799.1 | 1798.7 | 1798.3 |
| 10° | 1774.7 | 1777.8 | 1781.0 | 1782.2 | 1781.5 | 1780.8 | 1780.1 | 1779.4 |
| 12.5° | 1755.4 | 1757.7 | 1760.0 | 1761.0 | 1760.5 | 1760.1 | 1759.7 | 1759.3 |
| 15° | 1720.5 | 1723.3 | 1726.1 | 1726.5 | 1724.4 | 1722.3 | 1720.2 | 1718.1 |
| 17.5° | 1676.4 | 1678.4 | 1680.3 | 1680.9 | 1680.2 | 1679.4 | 1678.6 | 1677.9 |
| 20° | 1643.9 | 1645.3 | 1646.7 | 1646.8 | 1645.8 | 1644.7 | 1643.7 | 1642.6 |
| 22.5° | 1609.4 | 1610.5 | 1611.6 | 1611.5 | 1610.2 | 1608.8 | 1607.5 | 1606.2 |
| 25° | 1552.2 | 1552.5 | 1552.9 | 1552.5 | 1551.5 | 1550.4 | 1549.4 | 1548.3 |
| 27.5° | 1491.4 | 1491.6 | 1491.9 | 1491.4 | 1490.1 | 1488.7 | 1487.4 | 1486.1 |
| 30° | 1449.3 | 1449.3 | 1449.3 | 1448.1 | 1445.6 | 1443.2 | 1440.7 | 1438.3 |
| 32.5° | 1405.1 | 1403.2 | 1401.2 | 1399.6 | 1398.3 | 1396.9 | 1395.6 | 1394.3 |
| 35° | 1333.5 | 1331.4 | 1329.3 | 1327.4 | 1325.6 | 1323.9 | 1322.1 | 1320.4 |
| 37.5° | 1259.4 | 1256.9 | 1254.4 | 1252.6 | 1251.4 | 1250.3 | 1249.2 | 1248.1 |
| 40° | 1211.1 | 1208.3 | 1205.5 | 1203.4 | 1202.0 | 1200.6 | 1199.2 | 1197.8 |
| 42.5° | 1160.8 | 1158.0 | 1155.2 | 1153.1 | 1151.7 | 1150.3 | 1148.9 | 1147.5 |
| 45° | 1085.7 | 1081.5 | 1077.3 | 1074.3 | 1072.6 | 1070.8 | 1069.1 | 1067.3 |
| 47.5° | 1006.6 | 1002.5 | 998.3 | 995.5 | 994.0 | 992.4 | 990.9 | 989.4 |
| 50° | 954.3 | 950.5 | 946.6 | 943.7 | 941.6 | 939.5 | 937.4 | 935.3 |
| 52.5° | 901.4 | 898.1 | 894.8 | 892.1 | 890.0 | 887.9 | 885.8 | 883.7 |
| 55° | 820.7 | 816.9 | 813.0 | 810.2 | 808.5 | 806.7 | 805.0 | 803.2 |
| 57.5° | 741.4 | 738.0 | 734.5 | 731.8 | 729.8 | 727.8 | 725.7 | 723.7 |
| 60° | 685.4 | 682.2 | 679.1 | 676.6 | 674.9 | 673.1 | 671.4 | 669.6 |
| 62.5° | 631.3 | 628.1 | 625.0 | 622.8 | 621.6 | 620.4 | 619.3 | 618.1 |
| 65° | 550.9 | 548.1 | 545.3 | 543.4 | 542.3 | 541.3 | 540.2 | 539.2 |
| 67.5° | 471.1 | 468.6 | 466.2 | 464.2 | 462.8 | 461.3 | 459.8 | 458.4 |
| 70° | 419.5 | 417.1 | 414.6 | 412.5 | 410.8 | 409.0 | 407.3 | 405.6 |
| 72.5° | 367.3 | 365.1 | 362.9 | 361.4 | 360.5 | 359.6 | 358.7 | 357.8 |
| 75° | 292.0 | 290.3 | 288.5 | 287.1 | 286.1 | 285.0 | 284.0 | 282.9 |
| 77.5° | 221.8 | 220.6 | 219.4 | 218.8 | 218.8 | 218.8 | 218.8 | 218.8 |
| 80° | 176.9 | 176.6 | 176.2 | 176.1 | 176.1 | 176.1 | 176.1 | 176.1 |
| 82.5° | 136.1 | 135.5 | 134.9 | 134.4 | 134.1 | 133.9 | 133.6 | 133.3 |
| 85° | 77.2 | 76.5 | 75.8 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 |
| 87.5° | 28.9 | 28.7 | 28.5 | 28.4 | 28.4 | 28.5 | 28.5 | 28.5 |
| 90° | 9.1 | 9.4 | 9.7 | 10.0 | 10.1 | 10.3 | 10.4 | 10.6 |
| 92.5° | 10.1 | 10.6 | 11.1 | 11.4 | 11.4 | 11.5 | 11.6 | 11.7 |
| 95° | 12.1 | 12.6 | 13.2 | 13.4 | 13.4 | 13.4 | 13.4 | 13.4 |
| 97.5° | 12.6 | 13.3 | 13.9 | 14.2 | 14.3 | 14.4 | 14.5 | 14.6 |
| 100° | 12.9 | 13.5 | 14.2 | 14.5 | 14.6 | 14.7 | 14.8 | 14.8 |
| 102.5° | 19.4 | 17.4 | 15.5 | 14.6 | 14.7 | 14.8 | 15.0 | 15.1 |
| 105° | 49.6 | 35.7 | 21.8 | 14.9 | 15.1 | 15.2 | 15.4 | 15.5 |
| 107.5° | 121.5 | 111.3 | 101.1 | 90.7 | 80.3 | 69.8 | 59.3 | 48.8 |
| 110° | 154.2 | 151.6 | 149.0 | 142.1 | 130.9 | 119.6 | 108.4 | 97.2 |



TEST NUMBER: P332051

CATALOG NUMBER: S123DIP-S1165D365U835-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 177.3 | 177.3 | 177.4 | 176.2 | 173.8 | 171.5 | 169.1 | 166.7 |
| 115° | 204.4 | 205.2 | 206.0 | 206.5 | 206.8 | 207.2 | 207.5 | 207.8 |
| 117.5° | 229.0 | 229.6 | 230.2 | 230.6 | 230.6 | 230.7 | 230.8 | 230.8 |
| 120° | 245.1 | 245.7 | 246.3 | 246.7 | 246.7 | 246.7 | 246.7 | 246.7 |
| 122.5° | 260.8 | 261.3 | 261.7 | 261.9 | 262.0 | 262.1 | 262.1 | 262.2 |
| 125° | 283.0 | 283.2 | 283.3 | 283.5 | 283.6 | 283.8 | 284.0 | 284.1 |
| 127.5° | 305.2 | 305.5 | 305.8 | 305.8 | 305.6 | 305.5 | 305.3 | 305.2 |
| 130° | 318.7 | 319.0 | 319.3 | 319.4 | 319.2 | 319.1 | 318.9 | 318.7 |
| 132.5° | 331.4 | 331.7 | 332.0 | 332.1 | 331.8 | 331.6 | 331.4 | 331.2 |
| 135° | 350.7 | 350.9 | 351.1 | 351.1 | 350.9 | 350.7 | 350.4 | 350.2 |
| 137.5° | 367.8 | 368.2 | 368.6 | 368.7 | 368.5 | 368.4 | 368.2 | 368.1 |
| 140° | 378.7 | 379.0 | 379.4 | 379.4 | 379.3 | 379.1 | 379.0 | 378.8 |
| 142.5° | 389.1 | 389.3 | 389.6 | 389.6 | 389.4 | 389.1 | 388.9 | 388.7 |
| 145° | 403.5 | 403.7 | 403.8 | 403.9 | 403.9 | 403.9 | 403.9 | 403.9 |
| 147.5° | 416.4 | 416.6 | 416.8 | 416.7 | 416.3 | 415.9 | 415.6 | 415.2 |
| 150° | 424.4 | 424.5 | 424.7 | 424.6 | 424.4 | 424.2 | 423.9 | 423.7 |
| 152.5° | 431.4 | 431.7 | 432.0 | 431.9 | 431.6 | 431.2 | 430.8 | 430.5 |
| 155° | 441.1 | 441.5 | 441.9 | 441.8 | 441.4 | 440.9 | 440.4 | 439.9 |
| 157.5° | 449.5 | 450.0 | 450.5 | 450.4 | 449.8 | 449.2 | 448.5 | 447.9 |
| 160° | 454.3 | 454.8 | 455.3 | 455.2 | 454.7 | 454.1 | 453.6 | 453.0 |
| 162.5° | 458.7 | 459.2 | 459.7 | 459.8 | 459.3 | 458.8 | 458.3 | 457.8 |
| 165° | 464.5 | 465.2 | 465.8 | 465.8 | 465.3 | 464.7 | 464.2 | 463.6 |
| 167.5° | 469.0 | 469.7 | 470.3 | 470.3 | 469.7 | 469.0 | 468.4 | 467.8 |
| 170° | 471.6 | 472.2 | 472.8 | 472.8 | 472.2 | 471.6 | 471.0 | 470.3 |
| 172.5° | 473.3 | 473.9 | 474.5 | 474.5 | 473.8 | 473.1 | 472.4 | 471.7 |
| 175° | 475.3 | 475.9 | 476.4 | 476.4 | 475.8 | 475.1 | 474.5 | 473.9 |
| 177.5° | 476.1 | 476.6 | 477.1 | 477.0 | 476.4 | 475.8 | 475.1 | 474.5 |
| 180° | 475.6 | 475.6 | 475.6 | 475.6 | 475.6 | 475.6 | 475.6 | 475.6 |

(END OF REPORT)