

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: P332686-830

Luminaire Tested: **S124DIP-S1195D590U830-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332686-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIP-S1195D590U830-4F0-1E-UDD-F1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6750.6 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

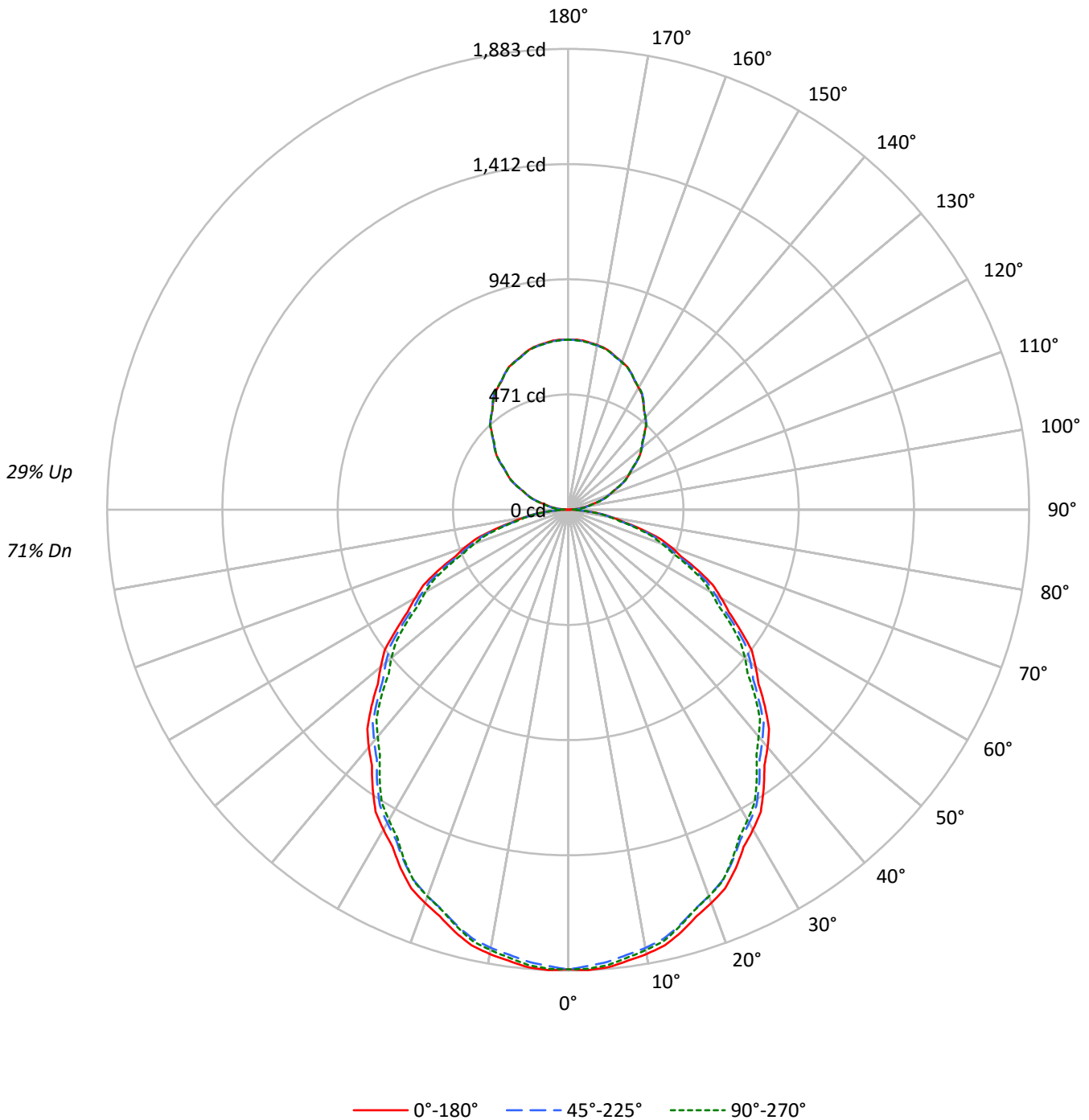
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332686-830

CATALOG NUMBER: S124DIP-S1195D590U830-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332686-830

CATALOG NUMBER: S124DIP-S1195D590U830-4F0-1E-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 | 106 | 106 | 106 | 106 | 95 | 95 | 95 | 85 | 85 | 85 | 76 | 76 | 76 | 71 |
| 1 | 103 | 98 | 94 | 90 | 97 | 93 | 89 | 86 | 84 | 81 | 78 | 75 | 73 | 71 | 67 | 65 | 64 | 60 |
| 2 | 93 | 86 | 79 | 74 | 88 | 81 | 76 | 71 | 73 | 69 | 65 | 66 | 62 | 59 | 59 | 56 | 54 | 50 |
| 3 | 85 | 75 | 68 | 62 | 80 | 72 | 65 | 59 | 65 | 59 | 55 | 58 | 54 | 50 | 52 | 49 | 46 | 43 |
| 4 | 78 | 67 | 59 | 52 | 74 | 64 | 56 | 50 | 58 | 51 | 47 | 52 | 47 | 43 | 47 | 43 | 40 | 37 |
| 5 | 72 | 60 | 51 | 45 | 68 | 57 | 49 | 43 | 52 | 45 | 40 | 47 | 41 | 37 | 42 | 38 | 34 | 32 |
| 6 | 66 | 54 | 45 | 39 | 62 | 51 | 43 | 38 | 47 | 40 | 35 | 42 | 37 | 33 | 38 | 34 | 30 | 28 |
| 7 | 61 | 49 | 40 | 34 | 58 | 46 | 39 | 33 | 42 | 36 | 31 | 39 | 33 | 29 | 35 | 30 | 27 | 25 |
| 8 | 57 | 44 | 36 | 31 | 54 | 42 | 35 | 30 | 39 | 32 | 28 | 35 | 30 | 26 | 32 | 28 | 24 | 22 |
| 9 | 53 | 41 | 33 | 27 | 50 | 39 | 32 | 27 | 36 | 29 | 25 | 33 | 27 | 24 | 30 | 25 | 22 | 20 |
| 10 | 50 | 37 | 30 | 25 | 47 | 36 | 29 | 24 | 33 | 27 | 23 | 30 | 25 | 21 | 28 | 23 | 20 | 18 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15163 | 15163 | 15163 |
| 5° | 15209 | 15027 | 15135 |
| 10° | 15114 | 14905 | 14978 |
| 15° | 14931 | 14692 | 14730 |
| 20° | 14689 | 14430 | 14442 |
| 25° | 14412 | 14130 | 14091 |
| 30° | 14072 | 13778 | 13651 |
| 35° | 13720 | 13409 | 13232 |
| 40° | 13354 | 12991 | 12752 |
| 45° | 12973 | 12578 | 12337 |
| 50° | 12552 | 12210 | 11833 |
| 55° | 12096 | 11736 | 11354 |
| 60° | 11641 | 11202 | 10863 |
| 65° | 11127 | 10695 | 10264 |
| 70° | 10551 | 10017 | 9626 |
| 75° | 9669 | 9201 | 8968 |
| 80° | 8605 | 8257 | 8047 |
| 85° | 7521 | 7243 | 7104 |



TEST NUMBER: P332686-830

CATALOG NUMBER: S124DIP-S1195D590U830-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 176.9 | 2.6 |
| 10°-20° | 498.4 | 7.4 |
| 20°-30° | 733.6 | 10.9 |
| 30°-40° | 852.8 | 12.6 |
| 40°-50° | 852.8 | 12.6 |
| 50°-60° | 746.0 | 11.1 |
| 60°-70° | 554.0 | 8.2 |
| 70°-80° | 314.7 | 4.7 |
| 80°-90° | 92.9 | 1.4 |
| 90°-100° | 45.8 | 0.7 |
| 100°-110° | 135.8 | 2.0 |
| 110°-120° | 230.5 | 3.4 |
| 120°-130° | 304.0 | 4.5 |
| 130°-140° | 341.4 | 5.1 |
| 140°-150° | 335.4 | 5.0 |
| 150°-160° | 282.1 | 4.2 |
| 160°-170° | 187.7 | 2.8 |
| 170°-180° | 65.7 | 1.0 |
| 0°-30° | 1408.8 | 20.9 |
| 0°-40° | 2261.6 | 33.5 |
| 0°-60° | 3860.5 | 57.2 |
| 0°-90° | 4822.1 | 71.4 |
| 90°-120° | 412.2 | 6.1 |
| 90°-150° | 1392.9 | 20.6 |
| 90°-180° | 1928.0 | 28.6 |
| 0°-180° | 6750.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1878 | 1878 | 1878 | 1878 | 1878 | |
| 5° | 1877 | 1870 | 1854 | 1870 | 1868 | 178 |
| 15° | 1786 | 1780 | 1758 | 1766 | 1762 | 503 |
| 25° | 1618 | 1607 | 1586 | 1587 | 1582 | 744 |
| 35° | 1392 | 1381 | 1361 | 1350 | 1343 | 870 |
| 45° | 1136 | 1125 | 1102 | 1086 | 1081 | 876 |
| 55° | 859 | 854 | 834 | 816 | 807 | 769 |
| 65° | 582 | 575 | 560 | 545 | 537 | 577 |
| 75° | 310 | 302 | 295 | 289 | 288 | 329 |
| 85° | 81 | 81 | 78 | 78 | 77 | 89 |
| 90° | 2 | 7 | 12 | 15 | 16 | 6 |
| 95° | 32 | 37 | 41 | 42 | 42 | 36 |
| 105° | 125 | 126 | 128 | 130 | 131 | 133 |
| 115° | 234 | 234 | 233 | 233 | 232 | 231 |
| 125° | 341 | 341 | 341 | 340 | 339 | 304 |
| 135° | 440 | 443 | 444 | 442 | 441 | 340 |
| 145° | 535 | 537 | 538 | 537 | 536 | 335 |
| 155° | 613 | 613 | 612 | 614 | 612 | 282 |
| 165° | 667 | 666 | 664 | 667 | 666 | 188 |
| 175° | 694 | 691 | 691 | 694 | 691 | 66 |
| 180° | 695 | 695 | 695 | 695 | 695 | |



TEST NUMBER: P332686-830

CATALOG NUMBER: S124DIP-S1195D590U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 |
| 2.5° | 1883.1 | 1882.4 | 1881.5 | 1880.7 | 1879.9 | 1878.0 | 1875.1 | 1872.2 | 1869.3 | 1866.3 | 1869.0 |
| 5° | 1876.8 | 1875.5 | 1874.2 | 1872.8 | 1871.5 | 1869.0 | 1865.3 | 1861.6 | 1857.9 | 1854.3 | 1857.9 |
| 7.5° | 1859.4 | 1858.0 | 1856.7 | 1855.3 | 1854.0 | 1851.3 | 1847.2 | 1843.1 | 1839.1 | 1834.9 | 1838.0 |
| 10° | 1843.7 | 1842.4 | 1841.1 | 1839.7 | 1838.3 | 1835.5 | 1831.2 | 1826.8 | 1822.5 | 1818.2 | 1820.8 |
| 12.5° | 1823.3 | 1821.9 | 1820.5 | 1819.2 | 1817.9 | 1814.9 | 1810.3 | 1805.7 | 1801.1 | 1796.5 | 1799.4 |
| 15° | 1786.5 | 1785.2 | 1783.9 | 1782.5 | 1781.1 | 1778.0 | 1772.9 | 1767.9 | 1762.9 | 1757.9 | 1759.9 |
| 17.5° | 1742.3 | 1740.6 | 1738.9 | 1737.3 | 1735.6 | 1732.4 | 1727.6 | 1722.9 | 1718.2 | 1713.4 | 1714.7 |
| 20° | 1709.8 | 1708.1 | 1706.4 | 1704.8 | 1703.1 | 1699.7 | 1694.7 | 1689.7 | 1684.7 | 1679.6 | 1680.6 |
| 22.5° | 1674.8 | 1672.6 | 1670.5 | 1668.2 | 1666.0 | 1662.4 | 1657.4 | 1652.4 | 1647.4 | 1642.3 | 1644.2 |
| 25° | 1618.0 | 1615.6 | 1613.3 | 1610.9 | 1608.5 | 1605.1 | 1600.3 | 1595.7 | 1591.0 | 1586.3 | 1586.7 |
| 27.5° | 1552.9 | 1550.5 | 1548.1 | 1545.7 | 1543.3 | 1539.9 | 1535.6 | 1531.3 | 1526.9 | 1522.5 | 1521.7 |
| 30° | 1509.6 | 1506.9 | 1504.2 | 1501.6 | 1498.9 | 1495.3 | 1491.0 | 1486.7 | 1482.3 | 1478.0 | 1476.7 |
| 32.5° | 1463.9 | 1461.4 | 1459.1 | 1456.6 | 1454.2 | 1450.7 | 1446.0 | 1441.4 | 1436.8 | 1432.2 | 1430.6 |
| 35° | 1392.2 | 1389.9 | 1387.5 | 1385.2 | 1382.8 | 1379.3 | 1374.6 | 1370.0 | 1365.3 | 1360.6 | 1358.2 |
| 37.5° | 1316.6 | 1314.5 | 1312.4 | 1310.2 | 1308.1 | 1304.5 | 1299.5 | 1294.5 | 1289.4 | 1284.4 | 1281.9 |
| 40° | 1267.2 | 1264.6 | 1261.9 | 1259.2 | 1256.6 | 1252.7 | 1247.7 | 1242.6 | 1237.7 | 1232.7 | 1229.3 |
| 42.5° | 1214.3 | 1212.7 | 1211.1 | 1209.5 | 1207.9 | 1204.3 | 1198.7 | 1193.2 | 1187.6 | 1182.0 | 1178.2 |
| 45° | 1136.3 | 1134.0 | 1131.6 | 1129.3 | 1127.0 | 1123.1 | 1117.8 | 1112.4 | 1107.0 | 1101.7 | 1098.1 |
| 47.5° | 1054.7 | 1053.1 | 1051.5 | 1049.9 | 1048.3 | 1045.1 | 1040.1 | 1035.2 | 1030.2 | 1025.3 | 1021.2 |
| 50° | 999.4 | 998.1 | 996.6 | 995.3 | 994.0 | 991.0 | 986.3 | 981.7 | 976.9 | 972.2 | 967.6 |
| 52.5° | 945.2 | 943.6 | 942.0 | 940.4 | 938.8 | 935.5 | 930.6 | 925.6 | 920.7 | 915.7 | 911.5 |
| 55° | 859.4 | 858.4 | 857.4 | 856.4 | 855.4 | 852.5 | 847.8 | 843.2 | 838.5 | 833.8 | 829.8 |
| 57.5° | 777.5 | 776.4 | 775.2 | 774.1 | 773.0 | 770.1 | 765.4 | 760.8 | 756.2 | 751.6 | 747.8 |
| 60° | 721.0 | 719.3 | 717.6 | 716.0 | 714.3 | 711.2 | 706.9 | 702.6 | 698.1 | 693.8 | 690.8 |
| 62.5° | 665.5 | 664.1 | 662.7 | 661.3 | 660.0 | 657.0 | 652.3 | 647.7 | 643.1 | 638.5 | 635.7 |
| 65° | 582.5 | 580.8 | 579.1 | 577.4 | 575.8 | 573.3 | 570.0 | 566.6 | 563.3 | 559.9 | 556.6 |
| 67.5° | 498.8 | 497.3 | 495.7 | 494.2 | 492.7 | 490.2 | 487.0 | 483.8 | 480.6 | 477.4 | 474.2 |
| 70° | 447.0 | 444.7 | 442.3 | 440.0 | 437.6 | 435.2 | 432.4 | 429.8 | 427.1 | 424.4 | 421.8 |
| 72.5° | 391.6 | 389.3 | 386.9 | 384.6 | 382.3 | 380.0 | 377.9 | 375.7 | 373.6 | 371.5 | 369.3 |
| 75° | 310.0 | 308.4 | 306.7 | 305.0 | 303.3 | 301.7 | 300.0 | 298.3 | 296.7 | 295.0 | 293.7 |
| 77.5° | 232.1 | 231.3 | 230.6 | 229.9 | 229.1 | 228.0 | 226.6 | 225.1 | 223.7 | 222.2 | 221.8 |
| 80° | 185.1 | 184.1 | 183.1 | 182.1 | 181.2 | 180.3 | 179.6 | 178.9 | 178.2 | 177.6 | 176.9 |
| 82.5° | 139.4 | 138.9 | 138.5 | 138.0 | 137.5 | 137.2 | 137.0 | 137.0 | 136.8 | 136.7 | 136.3 |
| 85° | 81.2 | 81.2 | 81.2 | 81.2 | 81.2 | 81.0 | 80.3 | 79.6 | 78.9 | 78.2 | 78.2 |
| 87.5° | 31.7 | 31.7 | 31.6 | 31.6 | 31.6 | 31.6 | 31.5 | 31.4 | 31.3 | 31.3 | 31.4 |
| 90° | 1.6 | 2.9 | 4.2 | 5.6 | 6.9 | 8.0 | 9.0 | 9.9 | 10.8 | 11.8 | 12.5 |
| 92.5° | 11.5 | 13.0 | 14.5 | 16.0 | 17.5 | 18.6 | 19.3 | 20.0 | 20.6 | 21.3 | 21.7 |
| 95° | 32.2 | 33.4 | 34.4 | 35.4 | 36.6 | 37.5 | 38.4 | 39.2 | 40.1 | 40.8 | 41.2 |
| 97.5° | 56.4 | 57.2 | 58.1 | 58.9 | 59.8 | 60.7 | 61.6 | 62.7 | 63.6 | 64.7 | 65.0 |
| 100° | 75.2 | 75.8 | 76.3 | 76.7 | 77.2 | 77.9 | 79.0 | 80.1 | 81.2 | 82.3 | 82.5 |
| 102.5° | 95.0 | 95.2 | 95.4 | 95.6 | 95.8 | 96.4 | 97.4 | 98.3 | 99.3 | 100.3 | 100.7 |
| 105° | 125.3 | 125.4 | 125.5 | 125.6 | 125.7 | 126.0 | 126.5 | 127.0 | 127.4 | 127.9 | 128.3 |
| 107.5° | 156.9 | 157.1 | 157.2 | 157.4 | 157.6 | 157.7 | 157.7 | 157.8 | 157.9 | 158.0 | 158.3 |
| 110° | 178.5 | 178.7 | 179.0 | 179.2 | 179.5 | 179.5 | 179.4 | 179.3 | 179.2 | 179.0 | 178.8 |



TEST NUMBER: P332686-830

CATALOG NUMBER: S124DIP-S1195D590U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 200.9 | 200.9 | 201.0 | 201.0 | 201.0 | 201.0 | 200.8 | 200.5 | 200.3 | 200.1 | 200.0 |
| 115° | 234.4 | 234.4 | 234.4 | 234.4 | 234.4 | 234.2 | 234.0 | 233.8 | 233.6 | 233.3 | 233.2 |
| 117.5° | 266.0 | 266.1 | 266.2 | 266.3 | 266.4 | 266.4 | 266.2 | 266.0 | 265.8 | 265.7 | 265.2 |
| 120° | 287.1 | 287.6 | 288.0 | 288.5 | 289.0 | 289.1 | 288.7 | 288.3 | 287.9 | 287.6 | 287.0 |
| 122.5° | 309.0 | 309.2 | 309.3 | 309.5 | 309.7 | 309.8 | 309.6 | 309.4 | 309.2 | 309.2 | 308.7 |
| 125° | 341.4 | 341.4 | 341.4 | 341.4 | 341.4 | 341.3 | 341.2 | 341.1 | 340.9 | 340.8 | 340.5 |
| 127.5° | 370.7 | 371.1 | 371.5 | 371.8 | 372.1 | 372.2 | 372.0 | 371.8 | 371.6 | 371.5 | 371.3 |
| 130° | 391.3 | 391.7 | 392.1 | 392.5 | 392.8 | 392.9 | 392.9 | 392.9 | 392.9 | 392.9 | 392.8 |
| 132.5° | 412.5 | 412.7 | 412.9 | 413.2 | 413.5 | 413.6 | 413.5 | 413.4 | 413.3 | 413.2 | 412.9 |
| 135° | 440.3 | 441.0 | 441.7 | 442.4 | 443.2 | 443.5 | 443.5 | 443.5 | 443.5 | 443.5 | 443.3 |
| 137.5° | 470.6 | 470.9 | 471.3 | 471.6 | 471.9 | 472.2 | 472.4 | 472.6 | 472.8 | 473.0 | 472.7 |
| 140° | 490.8 | 491.1 | 491.3 | 491.5 | 491.7 | 491.9 | 491.9 | 491.9 | 491.9 | 491.9 | 491.7 |
| 142.5° | 509.3 | 509.5 | 509.8 | 510.0 | 510.3 | 510.3 | 510.2 | 510.1 | 510.0 | 509.9 | 509.9 |
| 145° | 534.9 | 535.4 | 535.8 | 536.3 | 536.8 | 537.1 | 537.2 | 537.3 | 537.4 | 537.5 | 537.4 |
| 147.5° | 560.2 | 560.8 | 561.4 | 561.9 | 562.6 | 562.8 | 562.7 | 562.6 | 562.5 | 562.4 | 562.3 |
| 150° | 575.7 | 576.3 | 576.7 | 577.2 | 577.7 | 577.9 | 577.9 | 577.9 | 577.9 | 577.9 | 577.9 |
| 152.5° | 590.4 | 590.7 | 591.0 | 591.3 | 591.5 | 591.7 | 591.8 | 591.9 | 592.0 | 592.1 | 592.4 |
| 155° | 612.8 | 612.8 | 612.8 | 612.8 | 612.8 | 612.7 | 612.7 | 612.6 | 612.5 | 612.3 | 612.7 |
| 157.5° | 631.8 | 631.5 | 631.3 | 631.1 | 630.9 | 630.7 | 630.7 | 630.7 | 630.7 | 630.7 | 631.0 |
| 160° | 642.9 | 642.8 | 642.7 | 642.6 | 642.4 | 642.3 | 642.2 | 642.2 | 642.0 | 641.9 | 642.2 |
| 162.5° | 653.3 | 653.0 | 652.6 | 652.3 | 652.1 | 651.8 | 651.7 | 651.6 | 651.5 | 651.3 | 652.0 |
| 165° | 667.1 | 666.8 | 666.4 | 666.1 | 665.7 | 665.4 | 665.2 | 665.0 | 664.7 | 664.5 | 665.2 |
| 167.5° | 677.8 | 677.3 | 676.7 | 676.3 | 675.8 | 675.5 | 675.5 | 675.6 | 675.6 | 675.6 | 676.4 |
| 170° | 683.8 | 683.2 | 682.6 | 682.0 | 681.4 | 681.2 | 681.3 | 681.4 | 681.6 | 681.6 | 682.4 |
| 172.5° | 688.1 | 687.6 | 687.1 | 686.6 | 686.1 | 685.9 | 685.9 | 685.9 | 685.9 | 686.0 | 686.7 |
| 175° | 694.0 | 693.4 | 692.9 | 692.2 | 691.6 | 691.3 | 691.2 | 691.1 | 690.9 | 690.8 | 691.6 |
| 177.5° | 696.0 | 695.5 | 695.0 | 694.6 | 694.0 | 693.8 | 693.8 | 693.8 | 693.8 | 693.8 | 694.5 |
| 180° | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 |



TEST NUMBER: P332686-830

CATALOG NUMBER: S124DIP-S1195D590U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 | 1878.3 |
| 2.5° | 1871.6 | 1874.3 | 1877.0 | 1878.2 | 1877.9 | 1877.6 | 1877.4 | 1877.1 |
| 5° | 1861.6 | 1865.3 | 1869.0 | 1870.5 | 1869.8 | 1869.2 | 1868.5 | 1867.7 |
| 7.5° | 1840.9 | 1843.8 | 1846.7 | 1848.0 | 1847.7 | 1847.2 | 1846.8 | 1846.4 |
| 10° | 1823.4 | 1826.2 | 1828.8 | 1829.9 | 1829.2 | 1828.5 | 1827.8 | 1827.1 |
| 12.5° | 1802.3 | 1805.3 | 1808.3 | 1809.2 | 1808.3 | 1807.3 | 1806.4 | 1805.4 |
| 15° | 1761.9 | 1764.0 | 1765.9 | 1766.4 | 1765.5 | 1764.4 | 1763.4 | 1762.5 |
| 17.5° | 1715.9 | 1717.2 | 1718.4 | 1718.7 | 1718.1 | 1717.4 | 1716.7 | 1716.1 |
| 20° | 1681.7 | 1682.6 | 1683.7 | 1683.9 | 1683.2 | 1682.5 | 1681.9 | 1681.1 |
| 22.5° | 1646.0 | 1647.8 | 1649.5 | 1649.8 | 1648.7 | 1647.5 | 1646.2 | 1645.0 |
| 25° | 1587.1 | 1587.3 | 1587.7 | 1587.1 | 1585.8 | 1584.5 | 1583.2 | 1581.9 |
| 27.5° | 1520.9 | 1520.1 | 1519.3 | 1518.1 | 1516.4 | 1514.8 | 1513.1 | 1511.4 |
| 30° | 1475.3 | 1473.9 | 1472.6 | 1471.1 | 1469.4 | 1467.8 | 1466.1 | 1464.4 |
| 32.5° | 1429.0 | 1427.4 | 1425.8 | 1424.2 | 1422.5 | 1420.8 | 1419.2 | 1417.5 |
| 35° | 1355.9 | 1353.6 | 1351.2 | 1349.2 | 1347.6 | 1345.9 | 1344.2 | 1342.6 |
| 37.5° | 1279.3 | 1276.8 | 1274.2 | 1271.9 | 1269.7 | 1267.4 | 1265.3 | 1263.0 |
| 40° | 1226.0 | 1222.6 | 1219.3 | 1216.7 | 1215.1 | 1213.4 | 1211.7 | 1210.0 |
| 42.5° | 1174.3 | 1170.4 | 1166.6 | 1164.0 | 1162.9 | 1161.8 | 1160.6 | 1159.5 |
| 45° | 1094.4 | 1090.7 | 1087.0 | 1084.7 | 1083.6 | 1082.6 | 1081.7 | 1080.6 |
| 47.5° | 1017.0 | 1012.9 | 1008.7 | 1005.3 | 1002.8 | 1000.2 | 997.7 | 995.1 |
| 50° | 962.9 | 958.2 | 953.6 | 950.2 | 948.2 | 946.2 | 944.1 | 942.2 |
| 52.5° | 907.4 | 903.2 | 899.1 | 895.8 | 893.2 | 890.7 | 888.2 | 885.6 |
| 55° | 825.8 | 821.8 | 817.7 | 814.7 | 812.8 | 810.8 | 808.7 | 806.7 |
| 57.5° | 744.0 | 740.2 | 736.4 | 733.5 | 731.6 | 729.6 | 727.6 | 725.8 |
| 60° | 687.8 | 684.9 | 681.8 | 679.5 | 677.8 | 676.1 | 674.5 | 672.8 |
| 62.5° | 632.9 | 630.2 | 627.5 | 625.3 | 623.6 | 621.9 | 620.3 | 618.6 |
| 65° | 553.2 | 549.9 | 546.5 | 544.0 | 542.3 | 540.6 | 538.9 | 537.3 |
| 67.5° | 471.0 | 467.8 | 464.6 | 462.7 | 462.2 | 461.8 | 461.3 | 460.8 |
| 70° | 419.1 | 416.4 | 413.7 | 411.9 | 410.9 | 409.9 | 408.9 | 407.8 |
| 72.5° | 367.2 | 365.0 | 362.9 | 361.3 | 360.3 | 359.3 | 358.3 | 357.3 |
| 75° | 292.3 | 291.0 | 289.6 | 288.8 | 288.5 | 288.1 | 287.8 | 287.5 |
| 77.5° | 221.3 | 220.9 | 220.6 | 219.9 | 219.0 | 218.2 | 217.3 | 216.4 |
| 80° | 176.3 | 175.6 | 174.9 | 174.5 | 174.1 | 173.7 | 173.4 | 173.1 |
| 82.5° | 135.8 | 135.4 | 135.1 | 134.7 | 134.3 | 134.0 | 133.7 | 133.4 |
| 85° | 78.2 | 78.2 | 78.2 | 78.1 | 77.8 | 77.4 | 77.1 | 76.7 |
| 87.5° | 31.6 | 31.7 | 31.9 | 32.0 | 32.0 | 32.0 | 32.0 | 32.1 |
| 90° | 13.3 | 13.9 | 14.7 | 15.2 | 15.5 | 15.6 | 15.9 | 16.1 |
| 92.5° | 22.1 | 22.6 | 23.0 | 23.3 | 23.5 | 23.6 | 23.8 | 23.8 |
| 95° | 41.6 | 41.9 | 42.3 | 42.5 | 42.5 | 42.5 | 42.5 | 42.5 |
| 97.5° | 65.5 | 65.9 | 66.4 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 |
| 100° | 82.8 | 82.9 | 83.2 | 83.3 | 83.3 | 83.3 | 83.3 | 83.3 |
| 102.5° | 100.9 | 101.3 | 101.6 | 101.9 | 102.0 | 102.1 | 102.2 | 102.3 |
| 105° | 128.7 | 129.0 | 129.4 | 129.7 | 130.1 | 130.4 | 130.8 | 131.2 |
| 107.5° | 158.6 | 158.9 | 159.3 | 159.5 | 159.4 | 159.4 | 159.4 | 159.4 |
| 110° | 178.5 | 178.3 | 178.0 | 178.1 | 178.5 | 178.8 | 179.2 | 179.6 |



TEST NUMBER: P332686-830

CATALOG NUMBER: S124DIP-S1195D590U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 200.0 | 199.9 | 199.9 | 199.9 | 200.0 | 200.0 | 200.1 | 200.2 |
| 115° | 233.1 | 233.0 | 232.8 | 232.7 | 232.6 | 232.4 | 232.3 | 232.2 |
| 117.5° | 264.9 | 264.5 | 264.0 | 263.7 | 263.4 | 263.3 | 263.0 | 262.8 |
| 120° | 286.4 | 285.8 | 285.2 | 285.0 | 285.3 | 285.5 | 285.8 | 286.0 |
| 122.5° | 308.3 | 307.9 | 307.5 | 307.1 | 306.6 | 306.2 | 305.8 | 305.4 |
| 125° | 340.4 | 340.1 | 339.9 | 339.6 | 339.4 | 339.1 | 338.9 | 338.7 |
| 127.5° | 371.0 | 370.8 | 370.5 | 370.3 | 370.1 | 369.9 | 369.8 | 369.6 |
| 130° | 392.5 | 392.3 | 392.0 | 391.6 | 391.2 | 390.7 | 390.2 | 389.7 |
| 132.5° | 412.7 | 412.5 | 412.3 | 412.0 | 411.8 | 411.6 | 411.4 | 411.2 |
| 135° | 443.0 | 442.8 | 442.5 | 442.2 | 441.9 | 441.5 | 441.2 | 440.8 |
| 137.5° | 472.3 | 472.0 | 471.7 | 471.6 | 471.6 | 471.7 | 471.8 | 471.9 |
| 140° | 491.6 | 491.5 | 491.4 | 491.3 | 491.2 | 491.1 | 491.0 | 490.8 |
| 142.5° | 509.9 | 509.9 | 509.8 | 509.8 | 509.8 | 509.8 | 509.7 | 509.7 |
| 145° | 537.3 | 537.2 | 537.1 | 536.9 | 536.5 | 536.1 | 535.7 | 535.5 |
| 147.5° | 562.2 | 562.1 | 562.0 | 561.9 | 561.8 | 561.7 | 561.6 | 561.5 |
| 150° | 577.9 | 577.9 | 577.9 | 577.9 | 577.7 | 577.6 | 577.5 | 577.4 |
| 152.5° | 592.7 | 593.0 | 593.2 | 593.2 | 593.0 | 592.6 | 592.3 | 592.0 |
| 155° | 613.2 | 613.7 | 614.3 | 614.3 | 613.7 | 613.2 | 612.7 | 612.3 |
| 157.5° | 631.4 | 631.8 | 632.2 | 632.1 | 631.7 | 631.3 | 630.8 | 630.5 |
| 160° | 642.6 | 642.9 | 643.3 | 643.2 | 642.6 | 642.0 | 641.4 | 640.8 |
| 162.5° | 652.6 | 653.3 | 653.9 | 653.9 | 653.4 | 652.7 | 652.1 | 651.6 |
| 165° | 665.9 | 666.6 | 667.3 | 667.4 | 666.9 | 666.5 | 666.0 | 665.5 |
| 167.5° | 677.0 | 677.8 | 678.5 | 678.4 | 677.8 | 677.0 | 676.3 | 675.5 |
| 170° | 683.1 | 683.8 | 684.5 | 684.5 | 683.6 | 682.8 | 681.9 | 681.1 |
| 172.5° | 687.6 | 688.4 | 689.2 | 689.2 | 688.3 | 687.5 | 686.6 | 685.9 |
| 175° | 692.5 | 693.3 | 694.1 | 694.1 | 693.3 | 692.5 | 691.6 | 690.8 |
| 177.5° | 695.1 | 695.8 | 696.4 | 696.4 | 695.7 | 694.9 | 694.1 | 693.3 |
| 180° | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 | 695.1 |

(END OF REPORT)