

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: P332851-830

Luminaire Tested: **S124DIW-S1195D1050U830-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332851-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S1195D1050U830-4F0-1E-UDD-F
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 1050 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8773.2 lumens
Efficiency: N/A
Efficacy: 130.2 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: General Diffuse

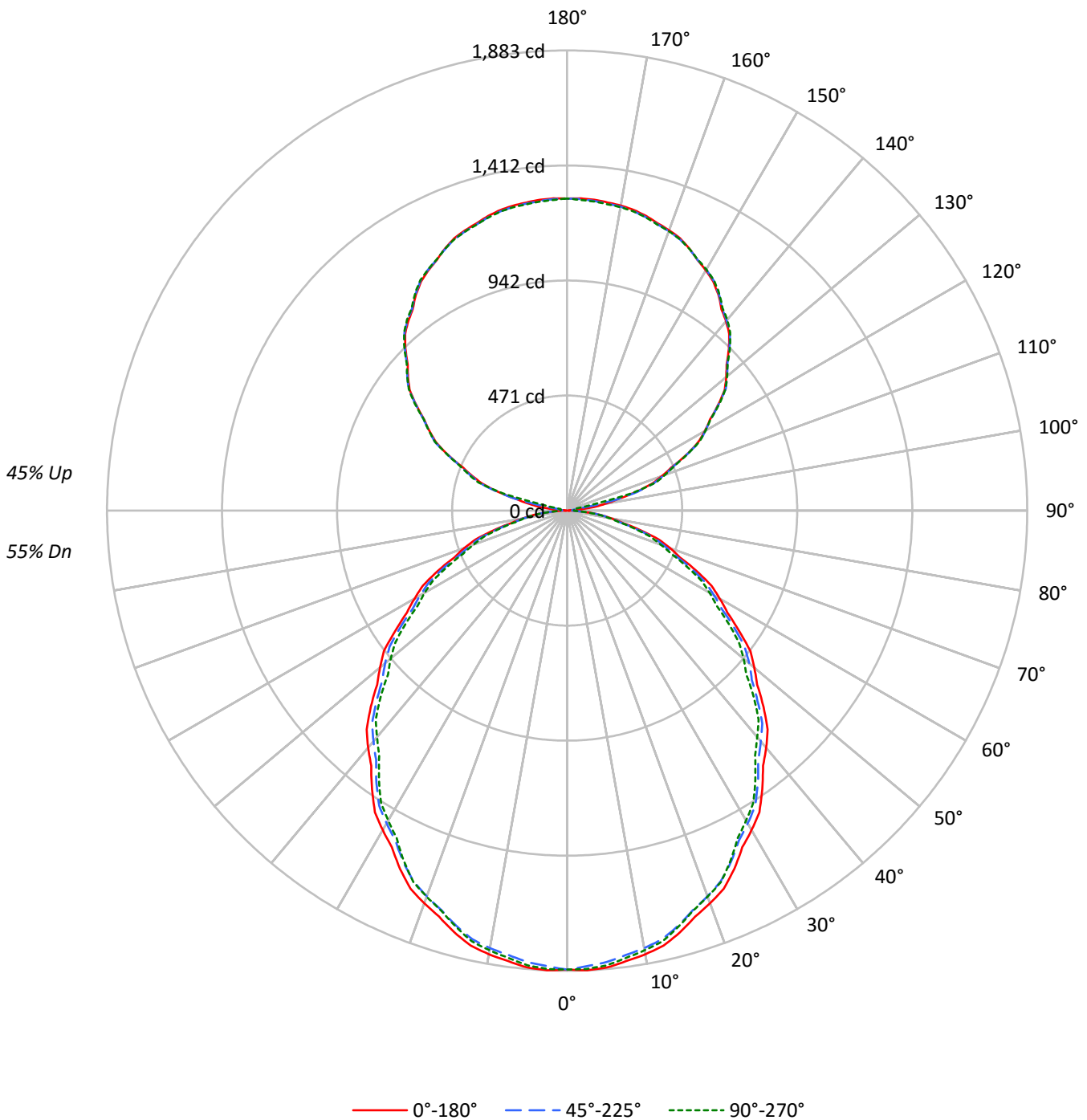
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332851-830

CATALOG NUMBER: S124DIW-S1195D1050U830-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332851-830

CATALOG NUMBER: S124DIW-S1195D1050U830-4F0-1E-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 | 108 | 108 | 108 | 108 | 101 | 101 | 101 | 101 | 86 | 86 | 86 | 73 | 73 | 73 | 61 | 61 | 61 | 55 |
| 1 | 99 | 94 | 91 | 87 | 92 | 88 | 84 | 81 | 75 | 73 | 71 | 64 | 62 | 61 | 54 | 52 | 51 | 46 |
| 2 | 90 | 82 | 76 | 71 | 83 | 77 | 71 | 67 | 66 | 62 | 58 | 56 | 53 | 51 | 47 | 45 | 43 | 39 |
| 3 | 82 | 73 | 65 | 59 | 76 | 68 | 61 | 56 | 58 | 53 | 49 | 50 | 46 | 43 | 42 | 39 | 37 | 33 |
| 4 | 75 | 64 | 56 | 50 | 69 | 60 | 53 | 47 | 52 | 46 | 42 | 44 | 40 | 37 | 37 | 34 | 32 | 28 |
| 5 | 69 | 57 | 49 | 43 | 64 | 53 | 46 | 41 | 46 | 41 | 36 | 40 | 35 | 32 | 34 | 30 | 28 | 24 |
| 6 | 64 | 51 | 43 | 37 | 59 | 48 | 41 | 35 | 42 | 36 | 32 | 36 | 31 | 28 | 31 | 27 | 24 | 21 |
| 7 | 59 | 46 | 38 | 33 | 54 | 43 | 36 | 31 | 38 | 32 | 28 | 33 | 28 | 25 | 28 | 24 | 22 | 19 |
| 8 | 55 | 42 | 34 | 29 | 51 | 40 | 32 | 28 | 35 | 29 | 25 | 30 | 25 | 22 | 26 | 22 | 19 | 17 |
| 9 | 51 | 39 | 31 | 26 | 47 | 36 | 29 | 25 | 32 | 26 | 22 | 28 | 23 | 20 | 24 | 20 | 17 | 15 |
| 10 | 48 | 35 | 28 | 23 | 44 | 33 | 27 | 22 | 29 | 24 | 20 | 26 | 21 | 18 | 22 | 18 | 16 | 14 |

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: P332851-830

CATALOG NUMBER: S124DIW-S1195D1050U830-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 176.9 | 2.0 |
| 10°-20° | 498.4 | 5.7 |
| 20°-30° | 733.6 | 8.4 |
| 30°-40° | 852.8 | 9.7 |
| 40°-50° | 852.8 | 9.7 |
| 50°-60° | 746.0 | 8.5 |
| 60°-70° | 554.0 | 6.3 |
| 70°-80° | 314.7 | 3.6 |
| 80°-90° | 94.5 | 1.1 |
| 90°-100° | 43.7 | 0.5 |
| 100°-110° | 278.4 | 3.2 |
| 110°-120° | 532.6 | 6.1 |
| 120°-130° | 676.2 | 7.7 |
| 130°-140° | 723.4 | 8.2 |
| 140°-150° | 676.5 | 7.7 |
| 150°-160° | 545.5 | 6.2 |
| 160°-170° | 351.9 | 4.0 |
| 170°-180° | 121.3 | 1.4 |
| 0°-30° | 1408.8 | 16.1 |
| 0°-40° | 2261.6 | 25.8 |
| 0°-60° | 3860.5 | 44.0 |
| 0°-90° | 4823.8 | 55.0 |
| 90°-120° | 854.7 | 9.7 |
| 90°-150° | 2930.8 | 33.4 |
| 90°-180° | 3949.0 | 45.0 |
| 0°-180° | 8773.2 | 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° | 3 | 13 | 21 | 27 | 29 | 7 |
| 95° | 52 | 22 | 21 | 26 | 28 | 68 |
| 105° | 288 | 293 | 298 | 304 | 272 | 301 |
| 115° | 537 | 539 | 539 | 540 | 540 | 528 |
| 125° | 754 | 758 | 756 | 759 | 760 | 673 |
| 135° | 936 | 935 | 939 | 941 | 942 | 721 |
| 145° | 1079 | 1082 | 1082 | 1083 | 1085 | 674 |
| 155° | 1183 | 1184 | 1181 | 1185 | 1182 | 545 |
| 165° | 1248 | 1244 | 1243 | 1250 | 1242 | 353 |
| 175° | 1277 | 1271 | 1272 | 1280 | 1269 | 122 |
| 180° | 1277 | 1277 | 1277 | 1277 | 1277 | |



TEST NUMBER: P332851-830

CATALOG NUMBER: S124DIW-S1195D1050U830-4F0-1E-UDD-F

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° | 31.9 | 32.0 | 32.2 | 32.5 | 32.7 | 32.8 | 32.9 | 33.0 | 33.0 | 33.1 | 33.4 |
| 90° | 2.8 | 5.2 | 7.5 | 9.9 | 12.2 | 14.2 | 15.9 | 17.6 | 19.3 | 21.0 | 22.2 |
| 92.5° | 12.1 | 12.2 | 12.3 | 12.4 | 12.5 | 13.5 | 15.2 | 16.9 | 18.6 | 20.3 | 21.5 |
| 95° | 52.5 | 45.3 | 38.1 | 30.9 | 23.7 | 20.2 | 20.4 | 20.5 | 20.8 | 21.0 | 22.2 |
| 97.5° | 111.5 | 116.0 | 120.6 | 125.1 | 129.5 | 120.0 | 96.2 | 72.6 | 48.9 | 25.2 | 25.4 |
| 100° | 156.7 | 160.4 | 164.3 | 168.1 | 171.9 | 159.2 | 129.9 | 100.6 | 71.4 | 42.0 | 38.5 |
| 102.5° | 207.1 | 209.8 | 212.6 | 215.5 | 218.2 | 217.7 | 214.0 | 210.1 | 206.2 | 202.5 | 163.5 |
| 105° | 287.5 | 288.7 | 290.0 | 291.2 | 292.6 | 293.7 | 294.7 | 295.9 | 296.9 | 297.9 | 299.8 |
| 107.5° | 362.1 | 362.8 | 363.4 | 364.0 | 364.7 | 365.7 | 367.1 | 368.6 | 370.0 | 371.5 | 372.4 |
| 110° | 412.6 | 413.2 | 413.8 | 414.4 | 415.1 | 416.0 | 417.4 | 418.6 | 419.9 | 421.1 | 421.6 |



TEST NUMBER: P332851-830

CATALOG NUMBER: S124DIW-S1195D1050U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 461.5 | 462.6 | 463.7 | 464.9 | 466.0 | 466.9 | 467.5 | 468.1 | 468.6 | 469.3 | 469.2 |
| 115° | 536.7 | 537.3 | 538.0 | 538.6 | 539.2 | 539.4 | 539.2 | 539.0 | 538.9 | 538.6 | 539.0 |
| 117.5° | 604.5 | 605.3 | 606.1 | 607.0 | 607.8 | 608.5 | 609.0 | 609.4 | 609.9 | 610.4 | 610.3 |
| 120° | 650.4 | 651.2 | 652.1 | 652.9 | 653.7 | 654.0 | 653.8 | 653.7 | 653.4 | 653.2 | 653.7 |
| 122.5° | 693.1 | 693.6 | 694.1 | 694.7 | 695.1 | 695.6 | 695.9 | 696.2 | 696.4 | 696.7 | 697.0 |
| 125° | 754.4 | 755.3 | 756.1 | 757.0 | 757.8 | 758.0 | 757.6 | 757.1 | 756.8 | 756.3 | 757.0 |
| 127.5° | 812.5 | 812.7 | 812.9 | 813.1 | 813.3 | 813.9 | 814.9 | 815.9 | 816.8 | 817.8 | 817.7 |
| 130° | 849.9 | 850.2 | 850.4 | 850.6 | 850.7 | 851.2 | 851.9 | 852.4 | 853.1 | 853.8 | 853.9 |
| 132.5° | 884.3 | 884.7 | 885.0 | 885.4 | 885.8 | 886.5 | 887.2 | 888.1 | 888.8 | 889.7 | 889.9 |
| 135° | 935.9 | 935.7 | 935.5 | 935.2 | 935.0 | 935.4 | 936.2 | 937.1 | 937.9 | 938.8 | 939.1 |
| 137.5° | 981.5 | 981.6 | 981.7 | 981.8 | 981.8 | 982.3 | 983.3 | 984.2 | 985.1 | 986.1 | 986.6 |
| 140° | 1011.3 | 1011.7 | 1012.2 | 1012.6 | 1013.0 | 1013.4 | 1013.9 | 1014.3 | 1014.7 | 1015.1 | 1015.8 |
| 142.5° | 1038.0 | 1038.8 | 1039.5 | 1040.4 | 1041.1 | 1041.6 | 1041.9 | 1042.1 | 1042.4 | 1042.6 | 1043.1 |
| 145° | 1079.1 | 1079.8 | 1080.3 | 1081.0 | 1081.7 | 1081.9 | 1081.9 | 1081.9 | 1081.9 | 1081.9 | 1082.2 |
| 147.5° | 1111.7 | 1113.0 | 1114.2 | 1115.3 | 1116.5 | 1117.0 | 1116.8 | 1116.6 | 1116.3 | 1116.2 | 1116.3 |
| 150° | 1135.5 | 1136.3 | 1137.2 | 1138.0 | 1138.9 | 1139.2 | 1139.0 | 1138.8 | 1138.5 | 1138.3 | 1138.3 |
| 152.5° | 1155.3 | 1156.0 | 1156.7 | 1157.3 | 1158.0 | 1158.2 | 1157.8 | 1157.4 | 1157.1 | 1156.7 | 1157.0 |
| 155° | 1183.2 | 1183.5 | 1183.6 | 1183.8 | 1184.0 | 1183.8 | 1183.2 | 1182.6 | 1181.9 | 1181.3 | 1182.1 |
| 157.5° | 1206.7 | 1206.5 | 1206.5 | 1206.3 | 1206.2 | 1205.8 | 1205.0 | 1204.3 | 1203.6 | 1202.9 | 1204.0 |
| 160° | 1220.4 | 1219.8 | 1219.2 | 1218.5 | 1217.9 | 1217.5 | 1217.3 | 1217.0 | 1216.8 | 1216.6 | 1217.9 |
| 162.5° | 1232.7 | 1231.9 | 1231.1 | 1230.2 | 1229.5 | 1228.9 | 1228.7 | 1228.5 | 1228.3 | 1228.0 | 1229.4 |
| 165° | 1248.1 | 1247.1 | 1246.0 | 1244.9 | 1243.9 | 1243.4 | 1243.4 | 1243.4 | 1243.4 | 1243.4 | 1245.1 |
| 167.5° | 1260.4 | 1259.2 | 1258.2 | 1257.1 | 1255.9 | 1255.4 | 1255.2 | 1255.1 | 1255.0 | 1254.8 | 1256.7 |
| 170° | 1267.2 | 1265.9 | 1264.7 | 1263.4 | 1262.2 | 1261.6 | 1261.8 | 1262.1 | 1262.3 | 1262.4 | 1264.1 |
| 172.5° | 1271.8 | 1270.5 | 1269.2 | 1268.0 | 1266.7 | 1266.2 | 1266.4 | 1266.6 | 1266.9 | 1267.1 | 1268.8 |
| 175° | 1276.8 | 1275.5 | 1274.2 | 1273.0 | 1271.7 | 1271.2 | 1271.4 | 1271.6 | 1271.8 | 1272.1 | 1273.9 |
| 177.5° | 1279.0 | 1277.9 | 1276.7 | 1275.5 | 1274.3 | 1273.9 | 1274.2 | 1274.6 | 1274.9 | 1275.3 | 1276.6 |
| 180° | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 |



TEST NUMBER: P332851-830

CATALOG NUMBER: S124DIW-S1195D1050U830-4F0-1E-UDD-F

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° | 33.6 | 33.8 | 34.1 | 34.3 | 34.4 | 34.5 | 34.5 | 34.6 |
| 90° | 23.6 | 24.8 | 26.1 | 27.0 | 27.3 | 27.8 | 28.2 | 28.7 |
| 92.5° | 22.8 | 24.0 | 25.4 | 26.0 | 26.1 | 26.2 | 26.3 | 26.4 |
| 95° | 23.6 | 24.8 | 26.1 | 26.9 | 27.1 | 27.2 | 27.5 | 27.7 |
| 97.5° | 25.4 | 25.6 | 25.7 | 25.9 | 26.1 | 26.3 | 26.5 | 26.8 |
| 100° | 34.8 | 31.2 | 27.6 | 25.9 | 26.1 | 26.3 | 26.5 | 26.8 |
| 102.5° | 124.6 | 85.7 | 46.8 | 27.3 | 27.3 | 27.4 | 27.4 | 27.5 |
| 105° | 301.8 | 303.7 | 305.6 | 302.7 | 295.1 | 287.5 | 279.8 | 272.2 |
| 107.5° | 373.3 | 374.3 | 375.2 | 376.1 | 376.9 | 377.7 | 378.5 | 379.3 |
| 110° | 422.0 | 422.4 | 422.8 | 423.4 | 424.0 | 424.6 | 425.3 | 425.9 |



TEST NUMBER: P332851-830

CATALOG NUMBER: S124DIW-S1195D1050U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 469.1 | 469.0 | 468.9 | 469.3 | 470.1 | 470.9 | 471.7 | 472.5 |
| 115° | 539.4 | 539.9 | 540.3 | 540.5 | 540.5 | 540.5 | 540.5 | 540.5 |
| 117.5° | 610.2 | 610.2 | 610.1 | 610.0 | 609.9 | 609.8 | 609.7 | 609.6 |
| 120° | 654.0 | 654.5 | 654.9 | 654.9 | 654.5 | 654.0 | 653.7 | 653.2 |
| 122.5° | 697.3 | 697.5 | 697.8 | 697.7 | 697.3 | 696.8 | 696.4 | 696.0 |
| 125° | 757.6 | 758.3 | 758.8 | 759.3 | 759.5 | 759.7 | 760.0 | 760.2 |
| 127.5° | 817.6 | 817.5 | 817.3 | 817.2 | 817.0 | 816.8 | 816.6 | 816.5 |
| 130° | 854.1 | 854.4 | 854.6 | 854.7 | 854.7 | 854.7 | 854.7 | 854.7 |
| 132.5° | 890.0 | 890.3 | 890.5 | 890.5 | 890.3 | 890.1 | 890.0 | 889.9 |
| 135° | 939.6 | 940.0 | 940.5 | 940.8 | 941.3 | 941.7 | 942.2 | 942.5 |
| 137.5° | 987.0 | 987.5 | 988.0 | 988.2 | 988.0 | 987.9 | 987.8 | 987.6 |
| 140° | 1016.4 | 1017.0 | 1017.7 | 1018.1 | 1018.3 | 1018.5 | 1018.7 | 1019.0 |
| 142.5° | 1043.6 | 1044.1 | 1044.5 | 1044.7 | 1044.8 | 1044.8 | 1044.9 | 1044.9 |
| 145° | 1082.4 | 1082.6 | 1082.8 | 1083.2 | 1083.5 | 1084.0 | 1084.4 | 1084.9 |
| 147.5° | 1116.5 | 1116.6 | 1116.8 | 1117.0 | 1117.3 | 1117.5 | 1117.7 | 1117.9 |
| 150° | 1138.3 | 1138.3 | 1138.3 | 1138.4 | 1138.6 | 1138.9 | 1139.1 | 1139.3 |
| 152.5° | 1157.3 | 1157.6 | 1158.0 | 1158.1 | 1158.0 | 1157.8 | 1157.7 | 1157.6 |
| 155° | 1183.0 | 1183.8 | 1184.7 | 1184.8 | 1184.1 | 1183.6 | 1182.9 | 1182.2 |
| 157.5° | 1205.0 | 1206.2 | 1207.3 | 1207.3 | 1206.2 | 1205.0 | 1204.0 | 1202.9 |
| 160° | 1219.2 | 1220.4 | 1221.7 | 1221.7 | 1220.4 | 1219.2 | 1217.9 | 1216.6 |
| 162.5° | 1230.6 | 1231.9 | 1233.1 | 1233.1 | 1231.6 | 1230.2 | 1228.8 | 1227.3 |
| 165° | 1246.8 | 1248.5 | 1250.2 | 1250.0 | 1248.1 | 1246.2 | 1244.3 | 1242.4 |
| 167.5° | 1258.6 | 1260.5 | 1262.3 | 1262.2 | 1260.1 | 1257.9 | 1255.8 | 1253.7 |
| 170° | 1265.8 | 1267.5 | 1269.2 | 1269.0 | 1266.9 | 1264.8 | 1262.6 | 1260.6 |
| 172.5° | 1270.5 | 1272.1 | 1273.8 | 1273.6 | 1271.2 | 1268.9 | 1266.7 | 1264.3 |
| 175° | 1275.8 | 1277.7 | 1279.7 | 1279.3 | 1276.8 | 1274.2 | 1271.7 | 1269.1 |
| 177.5° | 1278.0 | 1279.3 | 1280.7 | 1280.3 | 1278.3 | 1276.3 | 1274.2 | 1272.2 |
| 180° | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 | 1276.8 |

(END OF REPORT)