

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: P333106-940

Luminaire Tested: **S124RDIW-S1195D1050U940-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333106-940
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: S124RDIW-S1195D1050U940-4F0-1E-UDD-F1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1050 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7540.5 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: General Diffuse

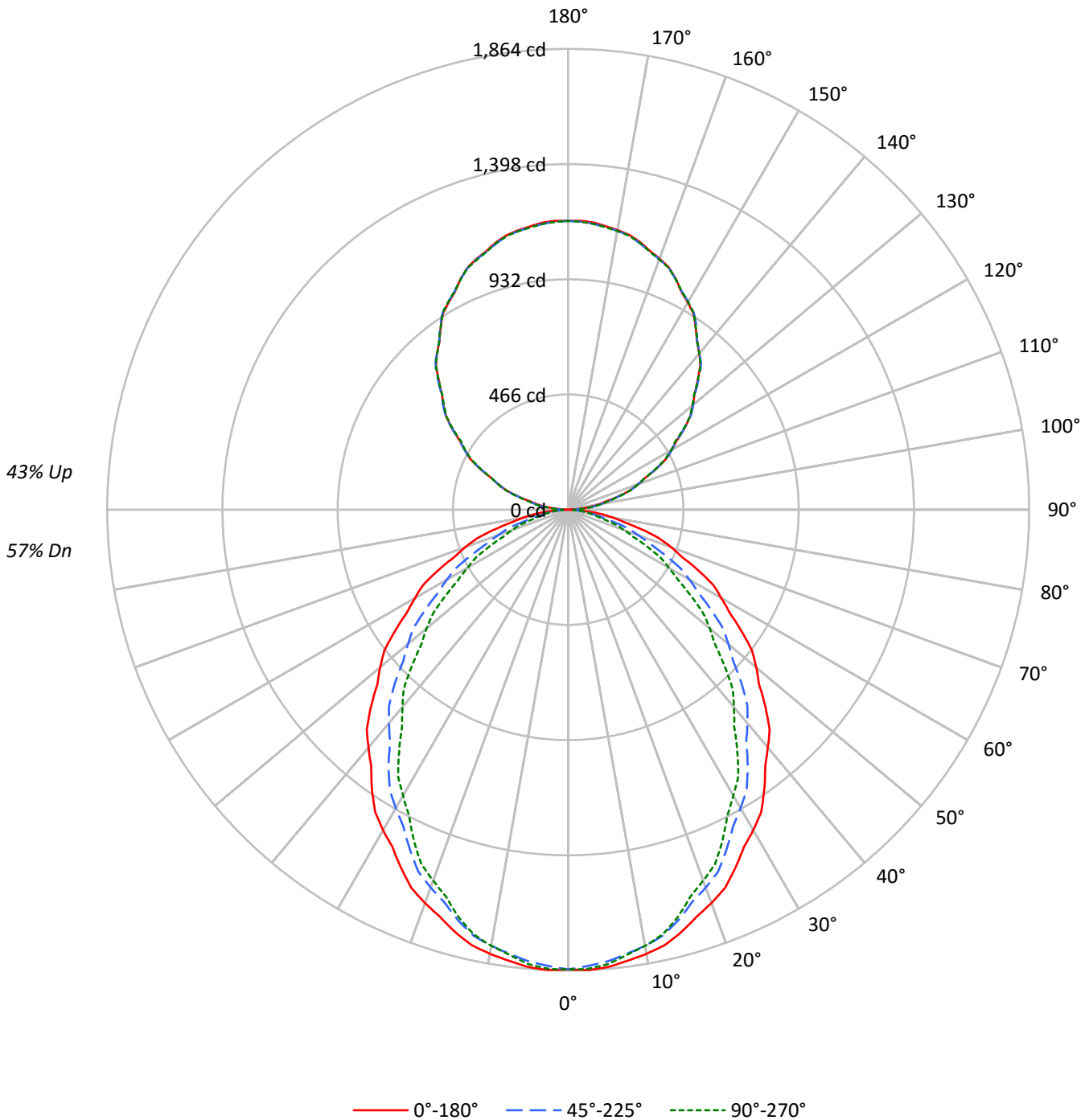
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333106-940

CATALOG NUMBER: S124RDIW-S1195D1050U940-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P333106-940

CATALOG NUMBER: S124RDIW-S1195D1050U940-4F0-1E-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 | 74 | 74 | 74 | 63 | 63 | 63 | 57 |
| 1 | 100 | 95 | 92 | 88 | 93 | 89 | 86 | 83 | 77 | 75 | 72 | 66 | 64 | 63 | 56 | 55 | 53 | 49 |
| 2 | 91 | 84 | 78 | 73 | 85 | 78 | 73 | 68 | 68 | 64 | 60 | 58 | 55 | 53 | 49 | 47 | 45 | 41 |
| 3 | 83 | 74 | 67 | 61 | 77 | 69 | 63 | 57 | 60 | 55 | 51 | 52 | 48 | 45 | 44 | 41 | 39 | 35 |
| 4 | 76 | 66 | 58 | 52 | 71 | 61 | 54 | 49 | 54 | 48 | 44 | 46 | 42 | 39 | 40 | 36 | 34 | 30 |
| 5 | 70 | 59 | 50 | 44 | 65 | 55 | 48 | 42 | 48 | 42 | 38 | 42 | 37 | 34 | 36 | 32 | 30 | 27 |
| 6 | 65 | 53 | 45 | 39 | 60 | 49 | 42 | 37 | 43 | 38 | 33 | 38 | 33 | 30 | 33 | 29 | 26 | 24 |
| 7 | 60 | 48 | 40 | 34 | 56 | 45 | 38 | 33 | 40 | 34 | 29 | 35 | 30 | 26 | 30 | 26 | 23 | 21 |
| 8 | 56 | 43 | 36 | 30 | 52 | 41 | 34 | 29 | 36 | 30 | 26 | 32 | 27 | 24 | 27 | 24 | 21 | 19 |
| 9 | 52 | 40 | 32 | 27 | 48 | 37 | 31 | 26 | 33 | 28 | 24 | 29 | 25 | 21 | 25 | 22 | 19 | 17 |
| 10 | 49 | 36 | 29 | 24 | 45 | 34 | 28 | 23 | 31 | 25 | 21 | 27 | 23 | 19 | 24 | 20 | 17 | 16 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15012 | 15012 | 15012 |
| 5° | 15046 | 14862 | 14955 |
| 10° | 14952 | 14684 | 14684 |
| 15° | 14780 | 14375 | 14269 |
| 20° | 14545 | 13970 | 13713 |
| 25° | 14243 | 13495 | 13153 |
| 30° | 13951 | 12995 | 12450 |
| 35° | 13626 | 12476 | 11745 |
| 40° | 13235 | 11884 | 10984 |
| 45° | 12875 | 11298 | 10209 |
| 50° | 12465 | 10623 | 9388 |
| 55° | 12024 | 9920 | 8497 |
| 60° | 11541 | 9150 | 7585 |
| 65° | 11096 | 8187 | 6692 |
| 70° | 10452 | 7124 | 5681 |
| 75° | 9638 | 5908 | 4619 |
| 80° | 8405 | 4500 | 4235 |
| 85° | 7123 | 4085 | 3825 |



TEST NUMBER: P333106-940

CATALOG NUMBER: S124RDIW-S1195D1050U940-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 174.7 | 2.3 |
| 10°-20° | 487.1 | 6.5 |
| 20°-30° | 703.4 | 9.3 |
| 30°-40° | 797.3 | 10.6 |
| 40°-50° | 770.0 | 10.2 |
| 50°-60° | 640.3 | 8.5 |
| 60°-70° | 442.1 | 5.9 |
| 70°-80° | 224.1 | 3.0 |
| 80°-90° | 61.0 | 0.8 |
| 90°-100° | 77.0 | 1.0 |
| 100°-110° | 228.2 | 3.0 |
| 110°-120° | 387.4 | 5.1 |
| 120°-130° | 510.8 | 6.8 |
| 130°-140° | 573.6 | 7.6 |
| 140°-150° | 563.7 | 7.5 |
| 150°-160° | 474.1 | 6.3 |
| 160°-170° | 315.4 | 4.2 |
| 170°-180° | 110.5 | 1.5 |
| 0°-30° | 1365.2 | 18.1 |
| 0°-40° | 2162.6 | 28.7 |
| 0°-60° | 3572.8 | 47.4 |
| 0°-90° | 4300.0 | 57.0 |
| 90°-120° | 692.6 | 9.2 |
| 90°-150° | 2340.6 | 31.0 |
| 90°-180° | 3241.0 | 43.0 |
| 0°-180° | 7540.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1860 | 1860 | 1860 | 1860 | 1860 | |
| 5° | 1857 | 1850 | 1834 | 1847 | 1845 | 176 |
| 15° | 1768 | 1754 | 1720 | 1717 | 1707 | 498 |
| 25° | 1599 | 1572 | 1515 | 1491 | 1477 | 736 |
| 35° | 1383 | 1336 | 1266 | 1219 | 1192 | 864 |
| 45° | 1128 | 1073 | 990 | 922 | 894 | 869 |
| 55° | 854 | 795 | 705 | 633 | 604 | 764 |
| 65° | 581 | 518 | 429 | 370 | 350 | 573 |
| 75° | 309 | 256 | 189 | 158 | 148 | 326 |
| 85° | 77 | 50 | 44 | 41 | 41 | 87 |
| 90° | 3 | 12 | 20 | 25 | 27 | 7 |
| 95° | 54 | 62 | 69 | 71 | 71 | 60 |
| 105° | 210 | 212 | 215 | 218 | 220 | 223 |
| 115° | 394 | 394 | 392 | 391 | 390 | 388 |
| 125° | 574 | 574 | 573 | 571 | 569 | 511 |
| 135° | 740 | 745 | 745 | 743 | 741 | 572 |
| 145° | 899 | 902 | 903 | 902 | 900 | 562 |
| 155° | 1030 | 1030 | 1029 | 1032 | 1029 | 474 |
| 165° | 1121 | 1118 | 1116 | 1121 | 1118 | 316 |
| 175° | 1166 | 1162 | 1161 | 1166 | 1161 | 111 |
| 180° | 1168 | 1168 | 1168 | 1168 | 1168 | |



TEST NUMBER: P333106-940

CATALOG NUMBER: S124RDIW-S1195D1050U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 |
| 2.5° | 1864.1 | 1863.1 | 1862.2 | 1861.1 | 1860.1 | 1858.2 | 1855.5 | 1852.6 | 1849.9 | 1847.1 | 1849.9 |
| 5° | 1856.7 | 1855.5 | 1854.2 | 1853.0 | 1851.7 | 1849.1 | 1845.4 | 1841.6 | 1837.8 | 1834.0 | 1837.1 |
| 7.5° | 1840.0 | 1838.6 | 1837.3 | 1835.9 | 1834.6 | 1831.5 | 1826.6 | 1821.7 | 1816.7 | 1811.8 | 1813.8 |
| 10° | 1824.0 | 1822.4 | 1820.9 | 1819.3 | 1817.7 | 1814.0 | 1808.4 | 1802.7 | 1797.0 | 1791.3 | 1792.5 |
| 12.5° | 1803.5 | 1801.7 | 1799.8 | 1798.0 | 1796.2 | 1791.9 | 1785.2 | 1778.5 | 1771.7 | 1765.1 | 1765.9 |
| 15° | 1768.4 | 1765.6 | 1762.8 | 1760.0 | 1757.1 | 1751.7 | 1743.8 | 1735.9 | 1728.0 | 1720.0 | 1719.4 |
| 17.5° | 1726.1 | 1721.9 | 1717.8 | 1713.7 | 1709.6 | 1702.8 | 1693.3 | 1683.8 | 1674.3 | 1664.8 | 1663.0 |
| 20° | 1693.0 | 1688.9 | 1684.8 | 1680.7 | 1676.6 | 1669.1 | 1658.4 | 1647.6 | 1636.8 | 1626.1 | 1623.5 |
| 22.5° | 1656.5 | 1652.0 | 1647.3 | 1642.7 | 1638.1 | 1630.0 | 1618.5 | 1607.0 | 1595.4 | 1583.9 | 1580.1 |
| 25° | 1599.0 | 1593.3 | 1587.6 | 1582.0 | 1576.3 | 1566.9 | 1554.0 | 1541.0 | 1528.0 | 1515.0 | 1509.7 |
| 27.5° | 1538.6 | 1531.5 | 1524.4 | 1517.2 | 1510.0 | 1499.6 | 1485.7 | 1471.9 | 1457.9 | 1444.1 | 1437.4 |
| 30° | 1496.6 | 1488.6 | 1480.7 | 1472.7 | 1464.9 | 1453.5 | 1438.6 | 1423.7 | 1408.9 | 1394.0 | 1386.1 |
| 32.5° | 1452.1 | 1443.1 | 1434.2 | 1425.3 | 1416.4 | 1404.3 | 1388.8 | 1373.5 | 1358.1 | 1342.7 | 1333.6 |
| 35° | 1382.6 | 1372.4 | 1362.4 | 1352.2 | 1342.1 | 1329.1 | 1313.3 | 1297.5 | 1281.7 | 1265.9 | 1255.1 |
| 37.5° | 1308.3 | 1297.8 | 1287.4 | 1276.9 | 1266.5 | 1252.5 | 1235.0 | 1217.5 | 1200.0 | 1182.4 | 1170.4 |
| 40° | 1255.9 | 1245.5 | 1235.0 | 1224.6 | 1214.1 | 1199.9 | 1181.9 | 1163.8 | 1145.8 | 1127.7 | 1114.5 |
| 42.5° | 1205.8 | 1194.8 | 1183.8 | 1172.9 | 1162.0 | 1147.1 | 1128.3 | 1109.5 | 1090.7 | 1071.9 | 1058.4 |
| 45° | 1127.7 | 1116.0 | 1104.3 | 1092.6 | 1080.9 | 1065.5 | 1046.6 | 1027.6 | 1008.6 | 989.6 | 974.1 |
| 47.5° | 1047.1 | 1035.0 | 1023.0 | 1010.8 | 998.8 | 982.8 | 963.1 | 943.3 | 923.6 | 903.9 | 887.8 |
| 50° | 992.5 | 980.1 | 967.8 | 955.5 | 943.1 | 926.8 | 906.5 | 886.3 | 866.0 | 845.8 | 830.0 |
| 52.5° | 936.7 | 924.5 | 912.5 | 900.4 | 888.3 | 871.8 | 851.1 | 830.4 | 809.6 | 788.8 | 772.8 |
| 55° | 854.3 | 841.7 | 829.0 | 816.4 | 803.7 | 787.1 | 766.5 | 746.0 | 725.4 | 704.8 | 688.4 |
| 57.5° | 772.8 | 759.7 | 746.5 | 733.4 | 720.2 | 703.6 | 683.3 | 663.0 | 642.7 | 622.5 | 605.8 |
| 60° | 714.8 | 702.1 | 689.5 | 676.8 | 664.1 | 647.7 | 627.5 | 607.3 | 586.9 | 566.7 | 550.3 |
| 62.5° | 662.4 | 649.3 | 636.1 | 622.9 | 609.8 | 592.8 | 572.0 | 551.3 | 530.5 | 509.8 | 494.5 |
| 65° | 580.9 | 567.3 | 553.8 | 540.1 | 526.6 | 509.6 | 489.4 | 469.1 | 448.9 | 428.6 | 415.0 |
| 67.5° | 496.3 | 483.3 | 470.3 | 457.3 | 444.3 | 428.3 | 409.5 | 390.7 | 371.9 | 353.1 | 341.4 |
| 70° | 442.8 | 429.5 | 416.3 | 403.0 | 389.7 | 374.0 | 356.0 | 338.0 | 319.9 | 301.8 | 291.4 |
| 72.5° | 385.8 | 373.9 | 361.9 | 349.8 | 337.8 | 323.2 | 306.2 | 289.2 | 272.2 | 255.1 | 246.2 |
| 75° | 309.0 | 297.3 | 285.5 | 273.8 | 262.2 | 248.9 | 234.0 | 219.1 | 204.3 | 189.4 | 182.1 |
| 77.5° | 231.0 | 221.1 | 211.1 | 201.2 | 191.2 | 180.2 | 168.2 | 156.2 | 144.2 | 132.2 | 127.9 |
| 80° | 180.8 | 171.7 | 162.5 | 153.3 | 144.1 | 134.8 | 125.3 | 115.8 | 106.3 | 96.8 | 95.9 |
| 82.5° | 137.6 | 129.1 | 120.7 | 112.3 | 103.9 | 96.9 | 91.5 | 86.1 | 80.6 | 75.2 | 74.5 |
| 85° | 76.9 | 70.5 | 64.2 | 57.9 | 51.5 | 48.0 | 47.0 | 46.0 | 45.1 | 44.1 | 43.5 |
| 87.5° | 26.8 | 25.1 | 23.5 | 22.0 | 20.4 | 19.6 | 19.7 | 19.8 | 19.9 | 19.9 | 19.9 |
| 90° | 2.7 | 4.9 | 7.1 | 9.4 | 11.5 | 13.5 | 15.1 | 16.7 | 18.3 | 19.9 | 21.0 |
| 92.5° | 19.4 | 21.8 | 24.4 | 26.9 | 29.4 | 31.3 | 32.4 | 33.5 | 34.7 | 35.8 | 36.5 |
| 95° | 54.2 | 56.0 | 57.8 | 59.7 | 61.4 | 63.0 | 64.5 | 65.8 | 67.2 | 68.7 | 69.3 |
| 97.5° | 94.7 | 96.1 | 97.6 | 99.0 | 100.5 | 102.0 | 103.6 | 105.3 | 106.9 | 108.6 | 109.3 |
| 100° | 126.4 | 127.2 | 128.0 | 128.9 | 129.7 | 131.0 | 132.8 | 134.6 | 136.4 | 138.2 | 138.6 |
| 102.5° | 159.7 | 160.1 | 160.3 | 160.7 | 161.0 | 161.9 | 163.6 | 165.2 | 166.9 | 168.5 | 169.2 |
| 105° | 210.4 | 210.7 | 210.9 | 211.1 | 211.2 | 211.8 | 212.6 | 213.4 | 214.2 | 215.0 | 215.6 |
| 107.5° | 263.8 | 264.0 | 264.2 | 264.5 | 264.7 | 264.9 | 265.0 | 265.2 | 265.3 | 265.4 | 266.0 |
| 110° | 299.9 | 300.3 | 300.7 | 301.1 | 301.5 | 301.6 | 301.4 | 301.2 | 301.0 | 300.8 | 300.4 |



TEST NUMBER: P333106-940

CATALOG NUMBER: S124RDIW-S1195D1050U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 337.5 | 337.6 | 337.7 | 337.7 | 337.8 | 337.7 | 337.3 | 337.0 | 336.6 | 336.3 | 336.2 |
| 115° | 393.9 | 393.9 | 393.9 | 393.9 | 393.9 | 393.7 | 393.2 | 392.9 | 392.4 | 392.1 | 391.8 |
| 117.5° | 447.0 | 447.1 | 447.3 | 447.5 | 447.6 | 447.5 | 447.3 | 447.0 | 446.7 | 446.4 | 445.8 |
| 120° | 482.4 | 483.2 | 484.0 | 484.8 | 485.6 | 485.7 | 485.1 | 484.5 | 483.9 | 483.3 | 482.3 |
| 122.5° | 519.2 | 519.6 | 519.9 | 520.2 | 520.5 | 520.6 | 520.2 | 520.0 | 519.7 | 519.4 | 518.7 |
| 125° | 573.6 | 573.6 | 573.6 | 573.6 | 573.6 | 573.5 | 573.3 | 573.1 | 572.9 | 572.7 | 572.3 |
| 127.5° | 622.9 | 623.6 | 624.1 | 624.7 | 625.4 | 625.5 | 625.2 | 624.8 | 624.6 | 624.2 | 623.8 |
| 130° | 657.6 | 658.3 | 658.8 | 659.4 | 660.0 | 660.3 | 660.3 | 660.3 | 660.3 | 660.3 | 660.0 |
| 132.5° | 693.0 | 693.5 | 693.9 | 694.4 | 694.8 | 694.9 | 694.8 | 694.6 | 694.5 | 694.3 | 693.9 |
| 135° | 739.9 | 741.0 | 742.3 | 743.4 | 744.7 | 745.3 | 745.3 | 745.3 | 745.3 | 745.3 | 744.8 |
| 137.5° | 790.8 | 791.3 | 791.9 | 792.5 | 793.0 | 793.4 | 793.8 | 794.2 | 794.4 | 794.8 | 794.2 |
| 140° | 824.7 | 825.2 | 825.5 | 826.0 | 826.3 | 826.5 | 826.5 | 826.5 | 826.5 | 826.5 | 826.3 |
| 142.5° | 855.9 | 856.2 | 856.7 | 857.0 | 857.5 | 857.6 | 857.4 | 857.2 | 857.1 | 856.9 | 856.8 |
| 145° | 898.8 | 899.6 | 900.4 | 901.3 | 902.1 | 902.5 | 902.8 | 902.9 | 903.1 | 903.3 | 903.1 |
| 147.5° | 941.5 | 942.4 | 943.4 | 944.3 | 945.3 | 945.7 | 945.6 | 945.4 | 945.2 | 945.0 | 944.9 |
| 150° | 967.5 | 968.3 | 969.1 | 969.9 | 970.7 | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 |
| 152.5° | 992.0 | 992.6 | 993.0 | 993.5 | 994.0 | 994.3 | 994.4 | 994.6 | 994.8 | 995.0 | 995.4 |
| 155° | 1029.8 | 1029.8 | 1029.8 | 1029.8 | 1029.8 | 1029.7 | 1029.5 | 1029.3 | 1029.1 | 1028.9 | 1029.7 |
| 157.5° | 1061.6 | 1061.2 | 1060.9 | 1060.5 | 1060.2 | 1060.0 | 1059.9 | 1059.9 | 1059.8 | 1059.8 | 1060.4 |
| 160° | 1080.4 | 1080.2 | 1080.0 | 1079.8 | 1079.6 | 1079.4 | 1079.1 | 1079.0 | 1078.8 | 1078.6 | 1079.1 |
| 162.5° | 1097.7 | 1097.3 | 1096.7 | 1096.2 | 1095.6 | 1095.3 | 1095.1 | 1094.9 | 1094.7 | 1094.5 | 1095.6 |
| 165° | 1121.1 | 1120.4 | 1119.8 | 1119.3 | 1118.7 | 1118.1 | 1117.8 | 1117.3 | 1117.0 | 1116.5 | 1117.8 |
| 167.5° | 1138.9 | 1138.1 | 1137.3 | 1136.4 | 1135.6 | 1135.1 | 1135.2 | 1135.2 | 1135.2 | 1135.3 | 1136.5 |
| 170° | 1149.1 | 1148.1 | 1147.0 | 1146.0 | 1145.0 | 1144.6 | 1144.9 | 1145.0 | 1145.2 | 1145.4 | 1146.7 |
| 172.5° | 1156.3 | 1155.4 | 1154.6 | 1153.8 | 1152.9 | 1152.5 | 1152.5 | 1152.6 | 1152.6 | 1152.6 | 1154.1 |
| 175° | 1166.2 | 1165.2 | 1164.2 | 1163.2 | 1162.2 | 1161.6 | 1161.4 | 1161.2 | 1161.0 | 1160.8 | 1162.2 |
| 177.5° | 1169.5 | 1168.7 | 1167.9 | 1167.1 | 1166.3 | 1165.8 | 1165.8 | 1165.8 | 1165.8 | 1165.8 | 1167.0 |
| 180° | 1168.1 | 1168.1 | 1168.1 | 1168.1 | 1168.1 | 1168.1 | 1168.1 | 1168.1 | 1168.1 | 1168.1 | 1168.1 |



TEST NUMBER: P333106-940

CATALOG NUMBER: S124RDIW-S1195D1050U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 | 1859.6 |
| 2.5° | 1852.6 | 1855.5 | 1858.2 | 1859.5 | 1859.2 | 1858.9 | 1858.7 | 1858.5 |
| 5° | 1840.3 | 1843.4 | 1846.6 | 1847.9 | 1847.3 | 1846.6 | 1846.0 | 1845.4 |
| 7.5° | 1815.8 | 1817.8 | 1819.9 | 1820.3 | 1819.4 | 1818.4 | 1817.3 | 1816.3 |
| 10° | 1793.8 | 1795.0 | 1796.4 | 1796.4 | 1795.0 | 1793.8 | 1792.5 | 1791.3 |
| 12.5° | 1766.6 | 1767.4 | 1768.1 | 1767.5 | 1765.9 | 1764.1 | 1762.3 | 1760.5 |
| 15° | 1718.8 | 1718.1 | 1717.5 | 1716.1 | 1713.9 | 1711.6 | 1709.5 | 1707.3 |
| 17.5° | 1661.3 | 1659.5 | 1657.7 | 1655.2 | 1651.8 | 1648.4 | 1645.1 | 1641.7 |
| 20° | 1621.0 | 1618.5 | 1616.0 | 1612.7 | 1608.6 | 1604.5 | 1600.3 | 1596.2 |
| 22.5° | 1576.4 | 1572.5 | 1568.8 | 1565.2 | 1561.8 | 1558.4 | 1555.1 | 1551.8 |
| 25° | 1504.2 | 1498.9 | 1493.5 | 1489.2 | 1486.0 | 1482.9 | 1479.7 | 1476.6 |
| 27.5° | 1430.8 | 1424.2 | 1417.6 | 1411.9 | 1407.4 | 1402.8 | 1398.3 | 1393.7 |
| 30° | 1378.1 | 1370.3 | 1362.4 | 1355.8 | 1350.8 | 1345.8 | 1340.7 | 1335.6 |
| 32.5° | 1324.4 | 1315.2 | 1306.0 | 1299.0 | 1294.2 | 1289.4 | 1284.6 | 1279.8 |
| 35° | 1244.3 | 1233.6 | 1222.8 | 1214.6 | 1208.9 | 1203.2 | 1197.5 | 1191.8 |
| 37.5° | 1158.3 | 1146.3 | 1134.3 | 1125.4 | 1119.7 | 1114.0 | 1108.4 | 1102.7 |
| 40° | 1101.2 | 1087.9 | 1074.6 | 1065.1 | 1059.4 | 1053.6 | 1048.0 | 1042.3 |
| 42.5° | 1044.8 | 1031.3 | 1017.7 | 1008.0 | 1002.0 | 996.1 | 990.2 | 984.2 |
| 45° | 958.6 | 943.1 | 927.6 | 916.9 | 911.3 | 905.6 | 899.9 | 894.2 |
| 47.5° | 871.7 | 855.7 | 839.6 | 828.4 | 822.2 | 815.9 | 809.6 | 803.3 |
| 50° | 814.1 | 798.3 | 782.5 | 771.6 | 765.6 | 759.6 | 753.6 | 747.5 |
| 52.5° | 756.7 | 740.7 | 724.5 | 713.4 | 707.1 | 700.9 | 694.6 | 688.3 |
| 55° | 671.9 | 655.5 | 639.0 | 627.8 | 621.8 | 615.7 | 609.8 | 603.7 |
| 57.5° | 589.2 | 572.4 | 555.7 | 545.1 | 540.6 | 535.9 | 531.4 | 526.8 |
| 60° | 533.8 | 517.4 | 500.9 | 490.2 | 485.1 | 480.0 | 474.9 | 469.8 |
| 62.5° | 479.4 | 464.2 | 449.0 | 439.3 | 435.3 | 431.3 | 427.2 | 423.2 |
| 65° | 401.4 | 387.8 | 374.2 | 365.4 | 361.7 | 357.8 | 354.1 | 350.3 |
| 67.5° | 329.8 | 318.0 | 306.3 | 298.4 | 294.2 | 290.0 | 285.8 | 281.6 |
| 70° | 281.0 | 270.5 | 260.1 | 253.3 | 250.1 | 247.0 | 243.8 | 240.7 |
| 72.5° | 237.3 | 228.4 | 219.5 | 213.6 | 210.6 | 207.8 | 204.8 | 201.9 |
| 75° | 174.9 | 167.6 | 160.2 | 155.7 | 153.8 | 151.9 | 150.0 | 148.1 |
| 77.5° | 123.7 | 119.4 | 115.2 | 112.8 | 112.2 | 111.6 | 111.1 | 110.5 |
| 80° | 95.0 | 94.0 | 93.0 | 92.4 | 92.1 | 91.8 | 91.5 | 91.1 |
| 82.5° | 73.8 | 73.1 | 72.4 | 71.9 | 71.6 | 71.2 | 71.0 | 70.6 |
| 85° | 42.9 | 42.3 | 41.6 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 |
| 87.5° | 19.9 | 19.9 | 19.9 | 20.1 | 20.3 | 20.7 | 21.0 | 21.4 |
| 90° | 22.3 | 23.5 | 24.7 | 25.5 | 25.9 | 26.3 | 26.7 | 27.1 |
| 92.5° | 37.2 | 37.9 | 38.7 | 39.1 | 39.4 | 39.6 | 39.9 | 40.1 |
| 95° | 69.8 | 70.4 | 71.1 | 71.3 | 71.3 | 71.3 | 71.3 | 71.3 |
| 97.5° | 110.0 | 110.8 | 111.5 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 |
| 100° | 139.0 | 139.4 | 139.8 | 140.0 | 140.0 | 140.0 | 140.0 | 140.0 |
| 102.5° | 169.7 | 170.2 | 170.9 | 171.2 | 171.3 | 171.5 | 171.7 | 171.8 |
| 105° | 216.2 | 216.8 | 217.4 | 218.0 | 218.6 | 219.2 | 219.8 | 220.4 |
| 107.5° | 266.5 | 267.1 | 267.7 | 267.9 | 267.9 | 267.9 | 267.8 | 267.8 |
| 110° | 300.0 | 299.6 | 299.2 | 299.3 | 299.9 | 300.5 | 301.1 | 301.8 |



TEST NUMBER: P333106-940

CATALOG NUMBER: S124RDIW-S1195D1050U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 336.1 | 336.0 | 335.9 | 335.9 | 336.1 | 336.2 | 336.3 | 336.4 |
| 115° | 391.6 | 391.5 | 391.3 | 391.0 | 390.8 | 390.7 | 390.5 | 390.2 |
| 117.5° | 445.1 | 444.3 | 443.7 | 443.2 | 442.7 | 442.4 | 441.9 | 441.6 |
| 120° | 481.3 | 480.3 | 479.3 | 478.9 | 479.4 | 479.7 | 480.2 | 480.5 |
| 122.5° | 518.1 | 517.4 | 516.7 | 515.9 | 515.2 | 514.5 | 513.8 | 513.1 |
| 125° | 571.9 | 571.5 | 571.1 | 570.7 | 570.3 | 569.9 | 569.5 | 569.1 |
| 127.5° | 623.4 | 623.0 | 622.6 | 622.2 | 621.9 | 621.6 | 621.3 | 621.0 |
| 130° | 659.5 | 659.2 | 658.7 | 658.2 | 657.4 | 656.6 | 655.8 | 655.0 |
| 132.5° | 693.5 | 693.1 | 692.7 | 692.3 | 692.1 | 691.7 | 691.3 | 691.1 |
| 135° | 744.5 | 744.0 | 743.7 | 743.2 | 742.5 | 741.9 | 741.4 | 740.7 |
| 137.5° | 793.7 | 793.2 | 792.6 | 792.5 | 792.6 | 792.7 | 792.8 | 792.9 |
| 140° | 826.2 | 826.0 | 825.7 | 825.5 | 825.4 | 825.2 | 824.9 | 824.7 |
| 142.5° | 856.8 | 856.8 | 856.8 | 856.7 | 856.7 | 856.7 | 856.6 | 856.6 |
| 145° | 902.9 | 902.8 | 902.5 | 902.1 | 901.5 | 900.9 | 900.4 | 899.7 |
| 147.5° | 944.8 | 944.6 | 944.4 | 944.2 | 944.1 | 943.9 | 943.6 | 943.4 |
| 150° | 971.1 | 971.1 | 971.1 | 971.0 | 970.8 | 970.6 | 970.4 | 970.2 |
| 152.5° | 995.9 | 996.4 | 996.8 | 996.8 | 996.3 | 995.8 | 995.2 | 994.8 |
| 155° | 1030.6 | 1031.4 | 1032.2 | 1032.2 | 1031.4 | 1030.6 | 1029.7 | 1028.9 |
| 157.5° | 1061.0 | 1061.6 | 1062.2 | 1062.2 | 1061.5 | 1060.8 | 1060.2 | 1059.4 |
| 160° | 1079.8 | 1080.4 | 1081.0 | 1080.8 | 1079.8 | 1078.8 | 1077.8 | 1076.7 |
| 162.5° | 1096.6 | 1097.7 | 1098.9 | 1098.9 | 1097.9 | 1096.9 | 1095.8 | 1094.8 |
| 165° | 1118.9 | 1120.2 | 1121.3 | 1121.5 | 1120.7 | 1119.9 | 1119.1 | 1118.3 |
| 167.5° | 1137.7 | 1138.9 | 1140.1 | 1140.1 | 1138.9 | 1137.6 | 1136.4 | 1135.1 |
| 170° | 1147.8 | 1149.1 | 1150.2 | 1150.1 | 1148.8 | 1147.4 | 1145.9 | 1144.5 |
| 172.5° | 1155.4 | 1156.7 | 1158.2 | 1158.1 | 1156.7 | 1155.3 | 1153.9 | 1152.4 |
| 175° | 1163.6 | 1165.0 | 1166.4 | 1166.4 | 1165.0 | 1163.6 | 1162.2 | 1160.8 |
| 177.5° | 1168.1 | 1169.2 | 1170.4 | 1170.3 | 1168.9 | 1167.7 | 1166.4 | 1165.1 |
| 180° | 1168.1 | 1168.1 | 1168.1 | 1168.1 | 1168.1 | 1168.1 | 1168.1 | 1168.1 |

(END OF REPORT)