

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: P333105-940

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333105-940  
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: S124RDIW-S1195D1050U940-4F0-1E-UDD-F  
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, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8036.5 lumens  
Efficiency: N/A  
Efficacy: 119.2 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

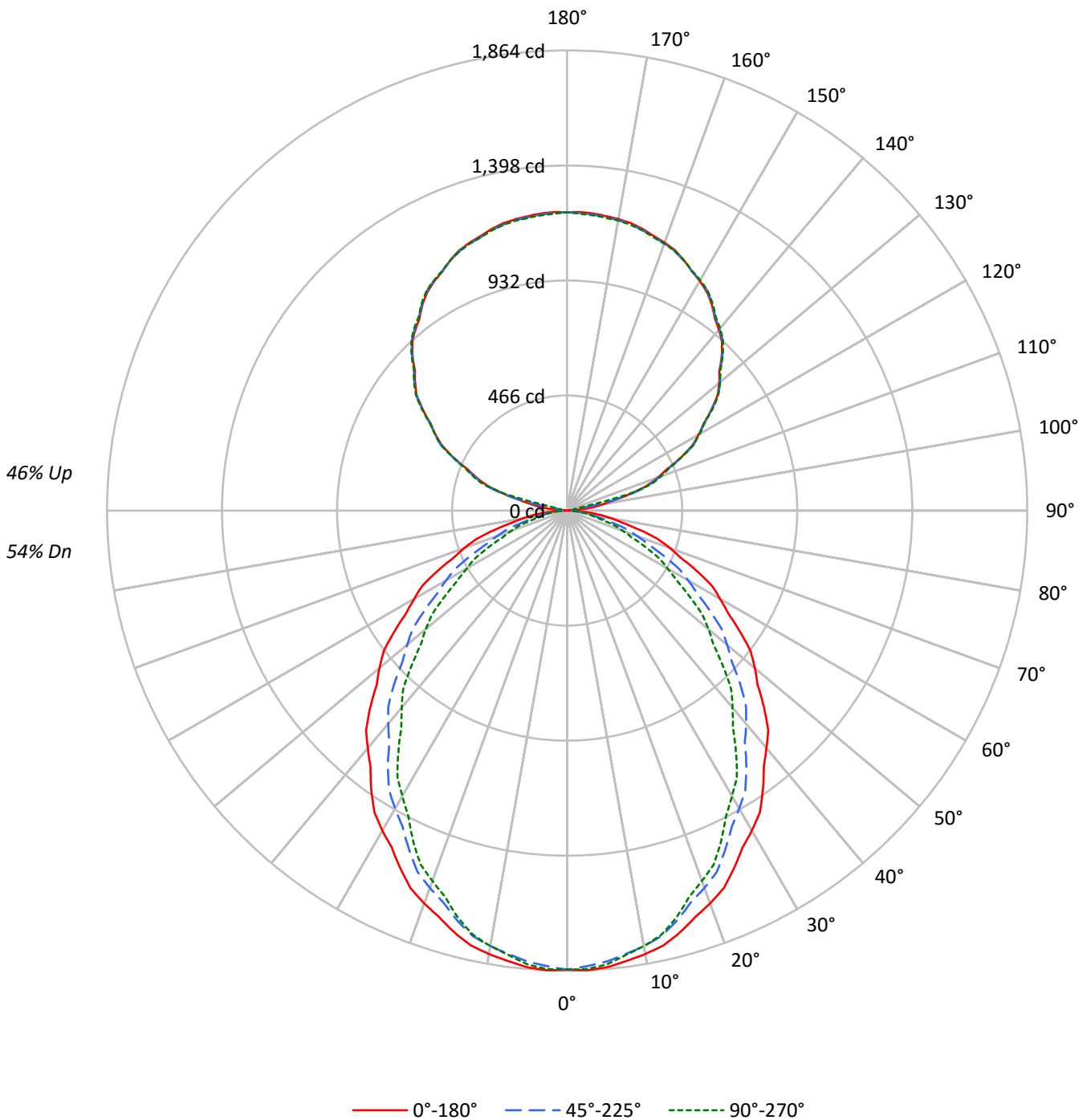
Input Watts (W): 67.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 72 | 72 | 72 | 59 | 59 | 59 | 54 |
| 1   | 99  | 95  | 91  | 87  | 92  | 88  | 85  | 82  | 75 | 73 | 71 | 64 | 62 | 60 | 53 | 52 | 51 | 46 |
| 2   | 90  | 83  | 77  | 72  | 83  | 77  | 72  | 67  | 66 | 62 | 59 | 56 | 53 | 51 | 47 | 45 | 43 | 39 |
| 3   | 82  | 73  | 66  | 60  | 76  | 68  | 62  | 57  | 59 | 54 | 50 | 50 | 46 | 43 | 42 | 39 | 37 | 33 |
| 4   | 76  | 65  | 57  | 51  | 70  | 61  | 54  | 48  | 52 | 47 | 43 | 45 | 41 | 37 | 38 | 35 | 32 | 29 |
| 5   | 69  | 58  | 50  | 44  | 64  | 54  | 47  | 42  | 47 | 41 | 37 | 40 | 36 | 33 | 34 | 31 | 28 | 25 |
| 6   | 64  | 52  | 44  | 38  | 59  | 49  | 42  | 36  | 42 | 37 | 32 | 36 | 32 | 29 | 31 | 27 | 25 | 22 |
| 7   | 59  | 47  | 39  | 34  | 55  | 44  | 37  | 32  | 39 | 33 | 29 | 33 | 29 | 25 | 28 | 25 | 22 | 20 |
| 8   | 55  | 43  | 35  | 30  | 51  | 40  | 33  | 28  | 35 | 30 | 26 | 30 | 26 | 23 | 26 | 23 | 20 | 18 |
| 9   | 51  | 39  | 32  | 27  | 48  | 37  | 30  | 25  | 32 | 27 | 23 | 28 | 24 | 21 | 24 | 21 | 18 | 16 |
| 10  | 48  | 36  | 29  | 24  | 45  | 34  | 27  | 23  | 30 | 24 | 21 | 26 | 22 | 19 | 22 | 19 | 16 | 15 |

**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  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 174.7  | 2.2       |
| 10°-20°   | 487.1  | 6.1       |
| 20°-30°   | 703.4  | 8.8       |
| 30°-40°   | 797.3  | 9.9       |
| 40°-50°   | 770.0  | 9.6       |
| 50°-60°   | 640.3  | 8.0       |
| 60°-70°   | 442.1  | 5.5       |
| 70°-80°   | 224.1  | 2.8       |
| 80°-90°   | 61.0   | 0.8       |
| 90°-100°  | 41.3   | 0.5       |
| 100°-110° | 263.4  | 3.3       |
| 110°-120° | 503.9  | 6.3       |
| 120°-130° | 639.7  | 8.0       |
| 130°-140° | 684.4  | 8.5       |
| 140°-150° | 640.0  | 8.0       |
| 150°-160° | 516.1  | 6.4       |
| 160°-170° | 332.9  | 4.1       |
| 170°-180° | 114.7  | 1.4       |
| 0°-30°    | 1365.2 | 17.0      |
| 0°-40°    | 2162.6 | 26.9      |
| 0°-60°    | 3572.8 | 44.5      |
| 0°-90°    | 4300.0 | 53.5      |
| 90°-120°  | 808.6  | 10.1      |
| 90°-150°  | 2772.8 | 34.5      |
| 90°-180°  | 3737.0 | 46.5      |
| 0°-180°   | 8036.5 | 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   | 6    |
| 95°  | 50   | 21    | 20   | 25    | 26   | 64   |
| 105° | 272  | 277   | 282  | 288   | 258  | 285  |
| 115° | 508  | 510   | 510  | 511   | 511  | 499  |
| 125° | 714  | 717   | 716  | 718   | 719  | 637  |
| 135° | 885  | 885   | 888  | 890   | 892  | 682  |
| 145° | 1021 | 1023  | 1024 | 1025  | 1026 | 638  |
| 155° | 1119 | 1120  | 1118 | 1121  | 1118 | 516  |
| 165° | 1181 | 1177  | 1176 | 1183  | 1175 | 334  |
| 175° | 1208 | 1203  | 1204 | 1210  | 1201 | 115  |
| 180° | 1208 | 1208  | 1208 | 1208  | 1208 |      |



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**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°  | 11.4   | 11.5   | 11.6   | 11.8   | 11.9   | 12.8   | 14.4   | 16.0   | 17.6   | 19.2   | 20.3   |
| 95°    | 49.7   | 42.9   | 36.0   | 29.2   | 22.4   | 19.1   | 19.3   | 19.4   | 19.7   | 19.9   | 21.0   |
| 97.5°  | 105.5  | 109.8  | 114.0  | 118.3  | 122.5  | 113.5  | 91.0   | 68.7   | 46.3   | 23.8   | 24.0   |
| 100°   | 148.2  | 151.8  | 155.4  | 159.0  | 162.6  | 150.6  | 122.9  | 95.1   | 67.5   | 39.8   | 36.4   |
| 102.5° | 195.9  | 198.5  | 201.2  | 203.8  | 206.4  | 206.0  | 202.4  | 198.8  | 195.1  | 191.5  | 154.7  |
| 105°   | 272.0  | 273.1  | 274.4  | 275.5  | 276.8  | 277.9  | 278.8  | 279.9  | 280.9  | 281.9  | 283.7  |
| 107.5° | 342.6  | 343.2  | 343.8  | 344.4  | 345.0  | 346.0  | 347.3  | 348.7  | 350.1  | 351.4  | 352.3  |
| 110°   | 390.3  | 390.9  | 391.5  | 392.1  | 392.7  | 393.6  | 394.8  | 396.0  | 397.3  | 398.4  | 398.9  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 436.6  | 437.7  | 438.7  | 439.8  | 440.9  | 441.8  | 442.3  | 442.8  | 443.4  | 444.0  | 443.9  |
| 115°   | 507.7  | 508.4  | 509.0  | 509.5  | 510.1  | 510.3  | 510.1  | 510.0  | 509.8  | 509.5  | 510.0  |
| 117.5° | 571.9  | 572.7  | 573.5  | 574.3  | 575.1  | 575.7  | 576.1  | 576.6  | 577.0  | 577.5  | 577.4  |
| 120°   | 615.3  | 616.1  | 616.9  | 617.7  | 618.5  | 618.8  | 618.6  | 618.4  | 618.1  | 618.0  | 618.4  |
| 122.5° | 655.8  | 656.2  | 656.7  | 657.2  | 657.6  | 658.1  | 658.4  | 658.6  | 658.9  | 659.2  | 659.4  |
| 125°   | 713.7  | 714.5  | 715.3  | 716.1  | 716.9  | 717.1  | 716.8  | 716.3  | 716.0  | 715.5  | 716.1  |
| 127.5° | 768.7  | 768.8  | 769.1  | 769.3  | 769.5  | 770.0  | 771.0  | 771.9  | 772.8  | 773.7  | 773.6  |
| 130°   | 804.1  | 804.3  | 804.5  | 804.7  | 804.9  | 805.3  | 805.9  | 806.5  | 807.1  | 807.7  | 807.9  |
| 132.5° | 836.6  | 837.0  | 837.3  | 837.7  | 838.0  | 838.7  | 839.4  | 840.2  | 840.9  | 841.7  | 841.9  |
| 135°   | 885.4  | 885.2  | 885.0  | 884.8  | 884.6  | 884.9  | 885.7  | 886.5  | 887.3  | 888.1  | 888.5  |
| 137.5° | 928.5  | 928.6  | 928.7  | 928.8  | 928.9  | 929.3  | 930.2  | 931.1  | 932.0  | 932.9  | 933.4  |
| 140°   | 956.8  | 957.2  | 957.6  | 958.0  | 958.4  | 958.8  | 959.2  | 959.6  | 960.0  | 960.4  | 961.0  |
| 142.5° | 982.0  | 982.8  | 983.5  | 984.3  | 985.0  | 985.4  | 985.7  | 985.9  | 986.1  | 986.4  | 986.9  |
| 145°   | 1020.9 | 1021.5 | 1022.1 | 1022.7 | 1023.3 | 1023.6 | 1023.6 | 1023.6 | 1023.6 | 1023.6 | 1023.9 |
| 147.5° | 1051.8 | 1052.9 | 1054.1 | 1055.2 | 1056.3 | 1056.8 | 1056.6 | 1056.4 | 1056.1 | 1056.0 | 1056.1 |
| 150°   | 1074.2 | 1075.0 | 1075.8 | 1076.7 | 1077.5 | 1077.7 | 1077.5 | 1077.4 | 1077.1 | 1076.9 | 1076.9 |
| 152.5° | 1093.0 | 1093.7 | 1094.3 | 1094.9 | 1095.6 | 1095.7 | 1095.4 | 1095.0 | 1094.7 | 1094.3 | 1094.6 |
| 155°   | 1119.4 | 1119.6 | 1119.8 | 1120.0 | 1120.2 | 1120.0 | 1119.4 | 1118.8 | 1118.2 | 1117.6 | 1118.4 |
| 157.5° | 1141.7 | 1141.5 | 1141.4 | 1141.2 | 1141.1 | 1140.8 | 1140.1 | 1139.3 | 1138.7 | 1138.0 | 1139.1 |
| 160°   | 1154.6 | 1154.1 | 1153.4 | 1152.8 | 1152.2 | 1151.8 | 1151.6 | 1151.4 | 1151.2 | 1151.0 | 1152.2 |
| 162.5° | 1166.2 | 1165.5 | 1164.7 | 1163.9 | 1163.1 | 1162.6 | 1162.4 | 1162.3 | 1162.1 | 1161.8 | 1163.1 |
| 165°   | 1180.8 | 1179.8 | 1178.8 | 1177.8 | 1176.8 | 1176.3 | 1176.3 | 1176.3 | 1176.3 | 1176.3 | 1177.9 |
| 167.5° | 1192.4 | 1191.3 | 1190.3 | 1189.3 | 1188.2 | 1187.7 | 1187.5 | 1187.4 | 1187.3 | 1187.1 | 1188.9 |
| 170°   | 1198.9 | 1197.7 | 1196.5 | 1195.2 | 1194.1 | 1193.6 | 1193.7 | 1194.0 | 1194.2 | 1194.4 | 1196.0 |
| 172.5° | 1203.2 | 1202.0 | 1200.8 | 1199.6 | 1198.4 | 1197.9 | 1198.1 | 1198.3 | 1198.5 | 1198.7 | 1200.3 |
| 175°   | 1207.9 | 1206.8 | 1205.5 | 1204.3 | 1203.1 | 1202.7 | 1202.8 | 1203.0 | 1203.2 | 1203.5 | 1205.2 |
| 177.5° | 1210.1 | 1209.0 | 1207.8 | 1206.8 | 1205.6 | 1205.2 | 1205.5 | 1205.9 | 1206.1 | 1206.5 | 1207.7 |
| 180°   | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 |



TEST NUMBER: P333105-940

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

**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°  | 21.6   | 22.7   | 24.0   | 24.6   | 24.7   | 24.8   | 24.9   | 25.0   |
| 95°    | 22.3   | 23.5   | 24.7   | 25.4   | 25.6   | 25.8   | 26.0   | 26.2   |
| 97.5°  | 24.1   | 24.3   | 24.3   | 24.5   | 24.7   | 24.9   | 25.1   | 25.3   |
| 100°   | 32.9   | 29.5   | 26.1   | 24.5   | 24.7   | 24.9   | 25.1   | 25.3   |
| 102.5° | 117.9  | 81.1   | 44.2   | 25.9   | 25.9   | 25.9   | 25.9   | 26.0   |
| 105°   | 285.5  | 287.3  | 289.1  | 286.4  | 279.2  | 272.0  | 264.7  | 257.5  |
| 107.5° | 353.2  | 354.1  | 355.0  | 355.8  | 356.6  | 357.3  | 358.1  | 358.8  |
| 110°   | 399.2  | 399.7  | 400.0  | 400.6  | 401.2  | 401.7  | 402.3  | 403.0  |





TEST NUMBER: P333105-940

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

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 443.8  | 443.7  | 443.6  | 444.0  | 444.8  | 445.5  | 446.3  | 447.0  |
| 115°   | 510.3  | 510.8  | 511.1  | 511.4  | 511.4  | 511.4  | 511.4  | 511.4  |
| 117.5° | 577.3  | 577.3  | 577.2  | 577.1  | 577.0  | 576.9  | 576.8  | 576.8  |
| 120°   | 618.8  | 619.2  | 619.6  | 619.6  | 619.2  | 618.8  | 618.4  | 618.0  |
| 122.5° | 659.7  | 659.9  | 660.1  | 660.0  | 659.7  | 659.2  | 658.9  | 658.4  |
| 125°   | 716.8  | 717.4  | 717.9  | 718.4  | 718.5  | 718.7  | 719.0  | 719.2  |
| 127.5° | 773.5  | 773.4  | 773.2  | 773.1  | 772.9  | 772.8  | 772.6  | 772.5  |
| 130°   | 808.1  | 808.3  | 808.5  | 808.6  | 808.6  | 808.6  | 808.6  | 808.6  |
| 132.5° | 842.0  | 842.3  | 842.5  | 842.5  | 842.3  | 842.1  | 842.0  | 841.9  |
| 135°   | 888.9  | 889.3  | 889.7  | 890.1  | 890.6  | 890.9  | 891.4  | 891.7  |
| 137.5° | 933.8  | 934.2  | 934.7  | 934.9  | 934.7  | 934.6  | 934.5  | 934.3  |
| 140°   | 961.6  | 962.2  | 962.8  | 963.2  | 963.4  | 963.6  | 963.8  | 964.0  |
| 142.5° | 987.3  | 987.7  | 988.2  | 988.4  | 988.5  | 988.5  | 988.6  | 988.6  |
| 145°   | 1024.0 | 1024.2 | 1024.4 | 1024.8 | 1025.1 | 1025.6 | 1025.9 | 1026.4 |
| 147.5° | 1056.3 | 1056.4 | 1056.6 | 1056.8 | 1057.0 | 1057.2 | 1057.4 | 1057.6 |
| 150°   | 1076.9 | 1076.9 | 1076.9 | 1077.0 | 1077.2 | 1077.5 | 1077.6 | 1077.8 |
| 152.5° | 1094.9 | 1095.2 | 1095.6 | 1095.6 | 1095.6 | 1095.4 | 1095.3 | 1095.2 |
| 155°   | 1119.2 | 1120.0 | 1120.8 | 1120.9 | 1120.3 | 1119.7 | 1119.1 | 1118.5 |
| 157.5° | 1140.1 | 1141.1 | 1142.2 | 1142.2 | 1141.1 | 1140.1 | 1139.1 | 1138.0 |
| 160°   | 1153.4 | 1154.6 | 1155.8 | 1155.8 | 1154.6 | 1153.4 | 1152.2 | 1151.0 |
| 162.5° | 1164.2 | 1165.5 | 1166.6 | 1166.6 | 1165.2 | 1163.9 | 1162.5 | 1161.1 |
| 165°   | 1179.6 | 1181.2 | 1182.8 | 1182.6 | 1180.8 | 1179.0 | 1177.2 | 1175.4 |
| 167.5° | 1190.7 | 1192.5 | 1194.2 | 1194.1 | 1192.1 | 1190.1 | 1188.1 | 1186.1 |
| 170°   | 1197.6 | 1199.2 | 1200.8 | 1200.6 | 1198.5 | 1196.6 | 1194.5 | 1192.6 |
| 172.5° | 1201.9 | 1203.5 | 1205.1 | 1204.9 | 1202.7 | 1200.5 | 1198.4 | 1196.1 |
| 175°   | 1207.0 | 1208.8 | 1210.7 | 1210.3 | 1207.9 | 1205.5 | 1203.1 | 1200.7 |
| 177.5° | 1209.1 | 1210.3 | 1211.7 | 1211.3 | 1209.3 | 1207.5 | 1205.5 | 1203.6 |
| 180°   | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 |

(END OF REPORT)