

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: P332977

Luminaire Tested: **S124RDIP-S1020D1035U835-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332977
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: S124RDIP-S1020D1035U835-4F0-1E-UDD-F1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7756.4 lumens
Efficiency: N/A
Efficacy: 128.2 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

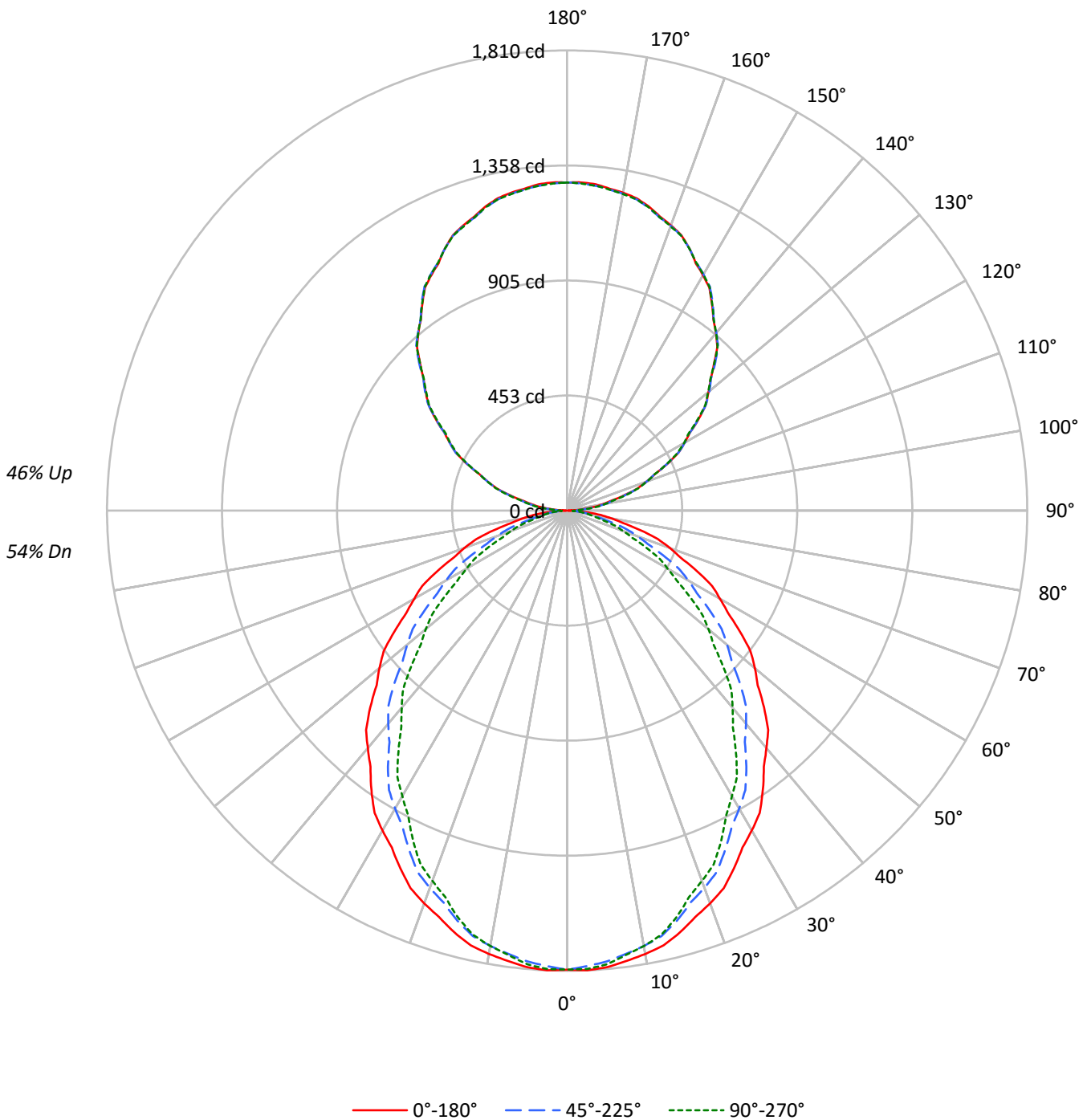
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332977

CATALOG NUMBER: S124RDIP-S1020D1035U835-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332977

CATALOG NUMBER: S124RDIP-S1020D1035U835-4F0-1E-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 | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 72 | 72 | 72 | 60 | 60 | 60 | 54 |
| 1 | 99 | 95 | 91 | 87 | 92 | 88 | 85 | 82 | 75 | 73 | 71 | 64 | 62 | 61 | 53 | 52 | 51 | 46 |
| 2 | 90 | 83 | 77 | 72 | 84 | 77 | 72 | 68 | 66 | 62 | 59 | 56 | 54 | 51 | 47 | 45 | 43 | 39 |
| 3 | 83 | 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 | 70 | 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 | 33 | 37 | 32 | 29 | 31 | 28 | 25 | 22 |
| 7 | 59 | 47 | 39 | 34 | 55 | 44 | 37 | 32 | 39 | 33 | 29 | 33 | 29 | 26 | 28 | 25 | 22 | 20 |
| 8 | 55 | 43 | 35 | 30 | 51 | 40 | 33 | 28 | 35 | 30 | 26 | 31 | 26 | 23 | 26 | 23 | 20 | 18 |
| 9 | 51 | 39 | 32 | 27 | 48 | 37 | 30 | 26 | 32 | 27 | 23 | 28 | 24 | 21 | 24 | 21 | 18 | 16 |
| 10 | 48 | 36 | 29 | 24 | 45 | 34 | 27 | 23 | 30 | 25 | 21 | 26 | 22 | 19 | 22 | 19 | 17 | 15 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 14577 | 14577 | 14577 |
| 5° | 14610 | 14431 | 14521 |
| 10° | 14519 | 14258 | 14258 |
| 15° | 14352 | 13959 | 13855 |
| 20° | 14123 | 13564 | 13315 |
| 25° | 13831 | 13104 | 12772 |
| 30° | 13546 | 12618 | 12089 |
| 35° | 13231 | 12113 | 11404 |
| 40° | 12852 | 11540 | 10666 |
| 45° | 12501 | 10970 | 9913 |
| 50° | 12103 | 10315 | 9117 |
| 55° | 11676 | 9633 | 8251 |
| 60° | 11207 | 8885 | 7367 |
| 65° | 10776 | 7950 | 6497 |
| 70° | 10150 | 6918 | 5516 |
| 75° | 9357 | 5736 | 4485 |
| 80° | 8164 | 4370 | 4114 |
| 85° | 6919 | 3974 | 3714 |



TEST NUMBER: P332977

CATALOG NUMBER: S124RDIP-S1020D1035U835-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 169.6 | 2.2 |
| 10°-20° | 473.0 | 6.1 |
| 20°-30° | 683.0 | 8.8 |
| 30°-40° | 774.2 | 10.0 |
| 40°-50° | 747.6 | 9.6 |
| 50°-60° | 621.7 | 8.0 |
| 60°-70° | 429.3 | 5.5 |
| 70°-80° | 217.6 | 2.8 |
| 80°-90° | 59.7 | 0.8 |
| 90°-100° | 85.1 | 1.1 |
| 100°-110° | 252.2 | 3.3 |
| 110°-120° | 428.0 | 5.5 |
| 120°-130° | 564.3 | 7.3 |
| 130°-140° | 633.8 | 8.2 |
| 140°-150° | 622.8 | 8.0 |
| 150°-160° | 523.8 | 6.8 |
| 160°-170° | 348.5 | 4.5 |
| 170°-180° | 122.0 | 1.6 |
| 0°-30° | 1325.6 | 17.1 |
| 0°-40° | 2099.9 | 27.1 |
| 0°-60° | 3469.2 | 44.7 |
| 0°-90° | 4175.7 | 53.8 |
| 90°-120° | 765.3 | 9.9 |
| 90°-150° | 2586.3 | 33.3 |
| 90°-180° | 3581.0 | 46.2 |
| 0°-180° | 7756.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1806 | 1806 | 1806 | 1806 | 1806 | |
| 5° | 1803 | 1797 | 1781 | 1794 | 1792 | 171 |
| 15° | 1717 | 1704 | 1670 | 1667 | 1658 | 484 |
| 25° | 1553 | 1526 | 1471 | 1448 | 1434 | 715 |
| 35° | 1342 | 1297 | 1229 | 1183 | 1157 | 839 |
| 45° | 1095 | 1042 | 961 | 896 | 868 | 844 |
| 55° | 830 | 772 | 684 | 615 | 586 | 742 |
| 65° | 564 | 503 | 416 | 359 | 340 | 557 |
| 75° | 300 | 248 | 184 | 153 | 144 | 317 |
| 85° | 75 | 48 | 43 | 40 | 40 | 84 |
| 90° | 3 | 14 | 22 | 28 | 30 | 7 |
| 95° | 60 | 69 | 76 | 79 | 79 | 67 |
| 105° | 233 | 234 | 238 | 241 | 244 | 247 |
| 115° | 435 | 435 | 433 | 432 | 431 | 429 |
| 125° | 634 | 634 | 633 | 631 | 629 | 565 |
| 135° | 818 | 823 | 824 | 821 | 818 | 632 |
| 145° | 993 | 997 | 998 | 997 | 994 | 621 |
| 155° | 1138 | 1138 | 1137 | 1140 | 1137 | 523 |
| 165° | 1239 | 1236 | 1234 | 1239 | 1236 | 349 |
| 175° | 1289 | 1284 | 1283 | 1289 | 1283 | 122 |
| 180° | 1291 | 1291 | 1291 | 1291 | 1291 | |



TEST NUMBER: P332977

CATALOG NUMBER: S124RDIP-S1020D1035U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1805.7 | 1805.7 | 1805.7 | 1805.7 | 1805.7 | 1805.7 | 1805.7 | 1805.7 | 1805.7 | 1805.7 | 1805.7 |
| 2.5° | 1810.1 | 1809.1 | 1808.1 | 1807.2 | 1806.2 | 1804.3 | 1801.6 | 1798.9 | 1796.2 | 1793.5 | 1796.2 |
| 5° | 1802.9 | 1801.7 | 1800.5 | 1799.2 | 1798.0 | 1795.5 | 1791.9 | 1788.2 | 1784.5 | 1780.8 | 1783.9 |
| 7.5° | 1786.6 | 1785.3 | 1784.0 | 1782.7 | 1781.4 | 1778.4 | 1773.6 | 1768.8 | 1764.0 | 1759.2 | 1761.2 |
| 10° | 1771.1 | 1769.6 | 1768.0 | 1766.5 | 1765.0 | 1761.4 | 1755.9 | 1750.4 | 1744.8 | 1739.3 | 1740.5 |
| 12.5° | 1751.2 | 1749.4 | 1747.6 | 1745.9 | 1744.1 | 1739.9 | 1733.4 | 1726.9 | 1720.4 | 1713.9 | 1714.6 |
| 15° | 1717.2 | 1714.4 | 1711.7 | 1708.9 | 1706.1 | 1700.9 | 1693.2 | 1685.5 | 1677.9 | 1670.2 | 1669.6 |
| 17.5° | 1676.0 | 1672.0 | 1668.0 | 1664.0 | 1660.0 | 1653.4 | 1644.2 | 1635.0 | 1625.8 | 1616.5 | 1614.8 |
| 20° | 1643.9 | 1639.9 | 1635.9 | 1631.9 | 1627.9 | 1620.7 | 1610.3 | 1599.8 | 1589.4 | 1578.9 | 1576.5 |
| 22.5° | 1608.5 | 1604.0 | 1599.5 | 1595.1 | 1590.6 | 1582.7 | 1571.6 | 1560.4 | 1549.2 | 1538.0 | 1534.3 |
| 25° | 1552.7 | 1547.1 | 1541.6 | 1536.1 | 1530.5 | 1521.5 | 1508.9 | 1496.3 | 1483.7 | 1471.1 | 1465.9 |
| 27.5° | 1494.0 | 1487.1 | 1480.2 | 1473.2 | 1466.3 | 1456.1 | 1442.6 | 1429.2 | 1415.7 | 1402.2 | 1395.8 |
| 30° | 1453.1 | 1445.4 | 1437.8 | 1430.1 | 1422.4 | 1411.3 | 1396.9 | 1382.4 | 1368.0 | 1353.6 | 1345.9 |
| 32.5° | 1410.0 | 1401.3 | 1392.6 | 1384.0 | 1375.3 | 1363.5 | 1348.6 | 1333.7 | 1318.7 | 1303.8 | 1294.9 |
| 35° | 1342.5 | 1332.7 | 1322.8 | 1313.0 | 1303.2 | 1290.6 | 1275.2 | 1259.9 | 1244.5 | 1229.1 | 1218.7 |
| 37.5° | 1270.3 | 1260.2 | 1250.1 | 1239.9 | 1229.8 | 1216.2 | 1199.2 | 1182.2 | 1165.1 | 1148.1 | 1136.4 |
| 40° | 1219.5 | 1209.3 | 1199.2 | 1189.0 | 1178.9 | 1165.1 | 1147.6 | 1130.0 | 1112.5 | 1095.0 | 1082.1 |
| 42.5° | 1170.8 | 1160.2 | 1149.5 | 1138.9 | 1128.3 | 1113.8 | 1095.6 | 1077.3 | 1059.1 | 1040.8 | 1027.7 |
| 45° | 1095.0 | 1083.7 | 1072.3 | 1060.9 | 1049.5 | 1034.6 | 1016.2 | 997.8 | 979.3 | 960.9 | 945.9 |
| 47.5° | 1016.8 | 1005.0 | 993.3 | 981.6 | 969.8 | 954.4 | 935.2 | 916.0 | 896.8 | 877.7 | 862.1 |
| 50° | 963.7 | 951.7 | 939.7 | 927.7 | 915.7 | 899.9 | 880.3 | 860.6 | 840.9 | 821.3 | 805.9 |
| 52.5° | 909.5 | 897.7 | 886.0 | 874.3 | 862.5 | 846.6 | 826.4 | 806.3 | 786.1 | 766.0 | 750.4 |
| 55° | 829.6 | 817.3 | 805.0 | 792.7 | 780.4 | 764.3 | 744.3 | 724.3 | 704.4 | 684.4 | 668.4 |
| 57.5° | 750.5 | 737.7 | 724.9 | 712.1 | 699.4 | 683.1 | 663.5 | 643.8 | 624.1 | 604.5 | 588.3 |
| 60° | 694.1 | 681.8 | 669.5 | 657.2 | 644.9 | 628.9 | 609.3 | 589.6 | 569.9 | 550.3 | 534.3 |
| 62.5° | 643.2 | 630.4 | 617.6 | 604.8 | 592.1 | 575.6 | 555.4 | 535.3 | 515.1 | 495.0 | 480.2 |
| 65° | 564.1 | 550.9 | 537.7 | 524.5 | 511.3 | 494.8 | 475.2 | 455.5 | 435.8 | 416.2 | 403.0 |
| 67.5° | 482.0 | 469.3 | 456.7 | 444.0 | 431.3 | 415.9 | 397.6 | 379.4 | 361.1 | 342.9 | 331.5 |
| 70° | 430.0 | 417.1 | 404.2 | 391.3 | 378.4 | 363.2 | 345.7 | 328.1 | 310.6 | 293.1 | 283.0 |
| 72.5° | 374.7 | 363.0 | 351.3 | 339.7 | 328.0 | 313.9 | 297.4 | 280.8 | 264.3 | 247.8 | 239.1 |
| 75° | 300.0 | 288.7 | 277.3 | 265.9 | 254.6 | 241.6 | 227.2 | 212.8 | 198.3 | 183.9 | 176.8 |
| 77.5° | 224.3 | 214.6 | 205.0 | 195.3 | 185.7 | 175.0 | 163.3 | 151.7 | 140.0 | 128.3 | 124.2 |
| 80° | 175.6 | 166.7 | 157.8 | 148.9 | 140.0 | 130.9 | 121.7 | 112.5 | 103.2 | 94.0 | 93.1 |
| 82.5° | 133.6 | 125.4 | 117.2 | 109.0 | 100.9 | 94.1 | 88.9 | 83.6 | 78.3 | 73.0 | 72.3 |
| 85° | 74.7 | 68.5 | 62.4 | 56.2 | 50.1 | 46.5 | 45.6 | 44.7 | 43.8 | 42.9 | 42.2 |
| 87.5° | 26.0 | 24.6 | 23.1 | 21.6 | 20.1 | 19.4 | 19.5 | 19.7 | 19.8 | 19.9 | 19.9 |
| 90° | 3.0 | 5.4 | 7.9 | 10.3 | 12.8 | 14.9 | 16.6 | 18.4 | 20.2 | 22.0 | 23.3 |
| 92.5° | 21.4 | 24.2 | 26.9 | 29.7 | 32.5 | 34.6 | 35.8 | 37.0 | 38.3 | 39.5 | 40.3 |
| 95° | 59.9 | 61.9 | 63.9 | 65.9 | 67.9 | 69.6 | 71.2 | 72.8 | 74.3 | 75.9 | 76.5 |
| 97.5° | 104.6 | 106.2 | 107.8 | 109.4 | 111.0 | 112.7 | 114.5 | 116.3 | 118.2 | 120.0 | 120.8 |
| 100° | 139.7 | 140.6 | 141.5 | 142.4 | 143.3 | 144.7 | 146.7 | 148.7 | 150.7 | 152.7 | 153.2 |
| 102.5° | 176.5 | 176.8 | 177.2 | 177.5 | 177.9 | 179.0 | 180.8 | 182.6 | 184.4 | 186.3 | 186.9 |
| 105° | 232.6 | 232.8 | 233.0 | 233.2 | 233.5 | 234.0 | 234.9 | 235.8 | 236.7 | 237.6 | 238.2 |
| 107.5° | 291.5 | 291.7 | 292.0 | 292.3 | 292.5 | 292.7 | 292.9 | 293.0 | 293.1 | 293.3 | 293.9 |
| 110° | 331.4 | 331.8 | 332.3 | 332.7 | 333.2 | 333.3 | 333.0 | 332.8 | 332.6 | 332.4 | 331.9 |



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CATALOG NUMBER: S124RDIP-S1020D1035U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 372.9 | 373.0 | 373.1 | 373.2 | 373.3 | 373.1 | 372.7 | 372.3 | 371.9 | 371.5 | 371.4 |
| 115° | 435.2 | 435.2 | 435.2 | 435.2 | 435.2 | 435.0 | 434.5 | 434.1 | 433.6 | 433.2 | 433.0 |
| 117.5° | 493.9 | 494.1 | 494.2 | 494.4 | 494.6 | 494.5 | 494.2 | 493.9 | 493.6 | 493.3 | 492.5 |
| 120° | 533.0 | 533.9 | 534.8 | 535.7 | 536.6 | 536.7 | 536.0 | 535.3 | 534.7 | 534.0 | 532.9 |
| 122.5° | 573.7 | 574.1 | 574.4 | 574.8 | 575.1 | 575.2 | 574.9 | 574.5 | 574.2 | 573.9 | 573.2 |
| 125° | 633.8 | 633.8 | 633.8 | 633.8 | 633.8 | 633.7 | 633.5 | 633.3 | 633.0 | 632.8 | 632.4 |
| 127.5° | 688.3 | 689.0 | 689.6 | 690.3 | 691.0 | 691.1 | 690.8 | 690.4 | 690.1 | 689.7 | 689.3 |
| 130° | 726.6 | 727.3 | 728.0 | 728.6 | 729.3 | 729.6 | 729.6 | 729.6 | 729.6 | 729.6 | 729.2 |
| 132.5° | 765.8 | 766.3 | 766.7 | 767.2 | 767.7 | 767.9 | 767.7 | 767.5 | 767.3 | 767.2 | 766.7 |
| 135° | 817.5 | 818.8 | 820.1 | 821.5 | 822.8 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.0 |
| 137.5° | 873.8 | 874.4 | 875.0 | 875.6 | 876.3 | 876.7 | 877.1 | 877.5 | 877.8 | 878.2 | 877.6 |
| 140° | 911.3 | 911.7 | 912.2 | 912.6 | 913.1 | 913.3 | 913.3 | 913.3 | 913.3 | 913.3 | 913.1 |
| 142.5° | 945.6 | 946.1 | 946.5 | 947.0 | 947.4 | 947.5 | 947.4 | 947.2 | 947.0 | 946.8 | 946.8 |
| 145° | 993.1 | 994.0 | 994.9 | 995.8 | 996.7 | 997.2 | 997.5 | 997.7 | 997.9 | 998.1 | 997.9 |
| 147.5° | 1040.3 | 1041.3 | 1042.4 | 1043.5 | 1044.5 | 1045.0 | 1044.8 | 1044.6 | 1044.4 | 1044.3 | 1044.1 |
| 150° | 1069.0 | 1069.9 | 1070.8 | 1071.7 | 1072.6 | 1073.0 | 1073.0 | 1073.0 | 1073.0 | 1073.0 | 1073.0 |
| 152.5° | 1096.2 | 1096.7 | 1097.2 | 1097.8 | 1098.3 | 1098.6 | 1098.8 | 1099.0 | 1099.2 | 1099.3 | 1099.9 |
| 155° | 1137.9 | 1137.9 | 1137.9 | 1137.9 | 1137.9 | 1137.8 | 1137.5 | 1137.3 | 1137.1 | 1136.9 | 1137.8 |
| 157.5° | 1173.0 | 1172.6 | 1172.2 | 1171.8 | 1171.4 | 1171.2 | 1171.1 | 1171.1 | 1171.1 | 1171.0 | 1171.7 |
| 160° | 1193.8 | 1193.5 | 1193.3 | 1193.1 | 1192.9 | 1192.7 | 1192.4 | 1192.2 | 1192.0 | 1191.8 | 1192.4 |
| 162.5° | 1212.9 | 1212.4 | 1211.8 | 1211.2 | 1210.6 | 1210.2 | 1210.0 | 1209.8 | 1209.6 | 1209.3 | 1210.5 |
| 165° | 1238.7 | 1238.0 | 1237.4 | 1236.7 | 1236.0 | 1235.5 | 1235.0 | 1234.6 | 1234.1 | 1233.7 | 1235.0 |
| 167.5° | 1258.5 | 1257.5 | 1256.6 | 1255.7 | 1254.7 | 1254.3 | 1254.3 | 1254.4 | 1254.4 | 1254.5 | 1255.8 |
| 170° | 1269.6 | 1268.5 | 1267.4 | 1266.3 | 1265.2 | 1264.7 | 1265.0 | 1265.2 | 1265.4 | 1265.6 | 1267.0 |
| 172.5° | 1277.6 | 1276.7 | 1275.8 | 1274.8 | 1273.9 | 1273.4 | 1273.5 | 1273.5 | 1273.6 | 1273.6 | 1275.1 |
| 175° | 1288.6 | 1287.5 | 1286.4 | 1285.3 | 1284.2 | 1283.5 | 1283.3 | 1283.0 | 1282.8 | 1282.6 | 1284.2 |
| 177.5° | 1292.2 | 1291.3 | 1290.4 | 1289.5 | 1288.6 | 1288.2 | 1288.2 | 1288.2 | 1288.2 | 1288.2 | 1289.4 |
| 180° | 1290.6 | 1290.6 | 1290.6 | 1290.6 | 1290.6 | 1290.6 | 1290.6 | 1290.6 | 1290.6 | 1290.6 | 1290.6 |



TEST NUMBER: P332977

CATALOG NUMBER: S124RDIP-S1020D1035U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1805.7 | 1805.7 | 1805.7 | 1805.7 | 1805.7 | 1805.7 | 1805.7 | 1805.7 |
| 2.5° | 1798.9 | 1801.6 | 1804.3 | 1805.6 | 1805.3 | 1805.1 | 1804.8 | 1804.6 |
| 5° | 1786.9 | 1790.0 | 1793.1 | 1794.3 | 1793.7 | 1793.1 | 1792.5 | 1791.9 |
| 7.5° | 1763.2 | 1765.1 | 1767.1 | 1767.6 | 1766.6 | 1765.6 | 1764.6 | 1763.6 |
| 10° | 1741.8 | 1743.0 | 1744.2 | 1744.2 | 1743.0 | 1741.8 | 1740.5 | 1739.3 |
| 12.5° | 1715.3 | 1716.1 | 1716.8 | 1716.3 | 1714.6 | 1712.9 | 1711.2 | 1709.5 |
| 15° | 1669.0 | 1668.3 | 1667.7 | 1666.3 | 1664.2 | 1662.0 | 1659.9 | 1657.7 |
| 17.5° | 1613.1 | 1611.4 | 1609.7 | 1607.2 | 1603.9 | 1600.7 | 1597.4 | 1594.1 |
| 20° | 1574.0 | 1571.6 | 1569.1 | 1565.9 | 1561.9 | 1557.9 | 1553.9 | 1549.9 |
| 22.5° | 1530.6 | 1526.9 | 1523.3 | 1519.8 | 1516.5 | 1513.3 | 1510.0 | 1506.8 |
| 25° | 1460.6 | 1455.4 | 1450.2 | 1446.0 | 1443.0 | 1439.9 | 1436.8 | 1433.8 |
| 27.5° | 1389.3 | 1382.9 | 1376.4 | 1371.0 | 1366.6 | 1362.1 | 1357.7 | 1353.3 |
| 30° | 1338.2 | 1330.5 | 1322.8 | 1316.5 | 1311.6 | 1306.7 | 1301.8 | 1296.9 |
| 32.5° | 1286.0 | 1277.1 | 1268.2 | 1261.4 | 1256.7 | 1252.0 | 1247.4 | 1242.7 |
| 35° | 1208.2 | 1197.8 | 1187.3 | 1179.4 | 1173.8 | 1168.3 | 1162.8 | 1157.2 |
| 37.5° | 1124.8 | 1113.1 | 1101.4 | 1092.8 | 1087.3 | 1081.7 | 1076.2 | 1070.7 |
| 40° | 1069.2 | 1056.3 | 1043.4 | 1034.2 | 1028.7 | 1023.1 | 1017.6 | 1012.1 |
| 42.5° | 1014.5 | 1001.4 | 988.2 | 978.8 | 973.0 | 967.2 | 961.4 | 955.7 |
| 45° | 930.8 | 915.7 | 900.7 | 890.4 | 884.9 | 879.3 | 873.8 | 868.3 |
| 47.5° | 846.5 | 830.9 | 815.2 | 804.4 | 798.3 | 792.2 | 786.1 | 780.1 |
| 50° | 790.5 | 775.2 | 759.8 | 749.2 | 743.4 | 737.5 | 731.7 | 725.9 |
| 52.5° | 734.7 | 719.1 | 703.5 | 692.7 | 686.6 | 680.5 | 674.4 | 668.4 |
| 55° | 652.4 | 636.5 | 620.5 | 609.6 | 603.7 | 597.9 | 592.1 | 586.2 |
| 57.5° | 572.0 | 555.8 | 539.6 | 529.3 | 524.8 | 520.4 | 516.0 | 511.6 |
| 60° | 518.3 | 502.3 | 486.4 | 475.9 | 471.0 | 466.1 | 461.2 | 456.3 |
| 62.5° | 465.5 | 450.7 | 436.0 | 426.6 | 422.7 | 418.8 | 414.8 | 410.9 |
| 65° | 389.7 | 376.5 | 363.3 | 354.9 | 351.2 | 347.5 | 343.8 | 340.1 |
| 67.5° | 320.1 | 308.8 | 297.4 | 289.7 | 285.6 | 281.6 | 277.5 | 273.5 |
| 70° | 272.8 | 262.7 | 252.6 | 245.9 | 242.9 | 239.8 | 236.7 | 233.7 |
| 72.5° | 230.4 | 221.8 | 213.1 | 207.4 | 204.5 | 201.7 | 198.9 | 196.1 |
| 75° | 169.8 | 162.7 | 155.6 | 151.2 | 149.3 | 147.5 | 145.6 | 143.8 |
| 77.5° | 120.1 | 116.0 | 111.8 | 109.5 | 108.9 | 108.4 | 107.8 | 107.3 |
| 80° | 92.2 | 91.3 | 90.3 | 89.7 | 89.4 | 89.1 | 88.8 | 88.5 |
| 82.5° | 71.6 | 71.0 | 70.3 | 69.8 | 69.5 | 69.2 | 68.9 | 68.6 |
| 85° | 41.6 | 41.0 | 40.4 | 40.1 | 40.1 | 40.1 | 40.1 | 40.1 |
| 87.5° | 19.9 | 19.9 | 20.0 | 20.1 | 20.5 | 20.8 | 21.1 | 21.5 |
| 90° | 24.6 | 26.0 | 27.3 | 28.2 | 28.6 | 29.1 | 29.5 | 29.9 |
| 92.5° | 41.1 | 41.9 | 42.7 | 43.3 | 43.5 | 43.8 | 44.1 | 44.3 |
| 95° | 77.2 | 77.9 | 78.5 | 78.9 | 78.9 | 78.9 | 78.9 | 78.9 |
| 97.5° | 121.6 | 122.4 | 123.2 | 123.6 | 123.6 | 123.6 | 123.6 | 123.6 |
| 100° | 153.6 | 154.0 | 154.5 | 154.7 | 154.7 | 154.7 | 154.7 | 154.7 |
| 102.5° | 187.5 | 188.1 | 188.7 | 189.1 | 189.3 | 189.5 | 189.7 | 189.8 |
| 105° | 238.9 | 239.6 | 240.2 | 240.9 | 241.5 | 242.2 | 242.9 | 243.5 |
| 107.5° | 294.5 | 295.1 | 295.7 | 296.0 | 296.0 | 295.9 | 295.9 | 295.8 |
| 110° | 331.5 | 331.0 | 330.6 | 330.7 | 331.4 | 332.0 | 332.7 | 333.4 |



TEST NUMBER: P332977

CATALOG NUMBER: S124RDIP-S1020D1035U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 371.3 | 371.2 | 371.2 | 371.2 | 371.3 | 371.4 | 371.6 | 371.7 |
| 115° | 432.7 | 432.5 | 432.3 | 432.1 | 431.9 | 431.6 | 431.4 | 431.2 |
| 117.5° | 491.8 | 491.0 | 490.3 | 489.7 | 489.2 | 488.8 | 488.3 | 487.9 |
| 120° | 531.8 | 530.7 | 529.6 | 529.2 | 529.7 | 530.1 | 530.6 | 531.0 |
| 122.5° | 572.4 | 571.7 | 570.9 | 570.1 | 569.3 | 568.5 | 567.7 | 566.9 |
| 125° | 631.9 | 631.5 | 631.0 | 630.6 | 630.2 | 629.7 | 629.3 | 628.8 |
| 127.5° | 688.8 | 688.4 | 687.9 | 687.5 | 687.2 | 686.8 | 686.5 | 686.1 |
| 130° | 728.8 | 728.3 | 727.9 | 727.2 | 726.3 | 725.4 | 724.5 | 723.6 |
| 132.5° | 766.3 | 765.8 | 765.4 | 765.0 | 764.6 | 764.3 | 763.9 | 763.6 |
| 135° | 822.6 | 822.1 | 821.7 | 821.1 | 820.5 | 819.8 | 819.1 | 818.5 |
| 137.5° | 877.0 | 876.4 | 875.9 | 875.6 | 875.8 | 875.9 | 876.0 | 876.2 |
| 140° | 912.9 | 912.6 | 912.4 | 912.2 | 912.0 | 911.7 | 911.5 | 911.3 |
| 142.5° | 946.7 | 946.7 | 946.7 | 946.6 | 946.6 | 946.5 | 946.5 | 946.4 |
| 145° | 997.7 | 997.5 | 997.2 | 996.8 | 996.1 | 995.5 | 994.8 | 994.1 |
| 147.5° | 1043.9 | 1043.7 | 1043.5 | 1043.3 | 1043.1 | 1042.9 | 1042.7 | 1042.5 |
| 150° | 1073.0 | 1073.0 | 1073.0 | 1072.9 | 1072.7 | 1072.4 | 1072.2 | 1072.0 |
| 152.5° | 1100.4 | 1100.9 | 1101.5 | 1101.5 | 1100.9 | 1100.3 | 1099.7 | 1099.1 |
| 155° | 1138.7 | 1139.5 | 1140.4 | 1140.4 | 1139.5 | 1138.7 | 1137.8 | 1136.9 |
| 157.5° | 1172.3 | 1173.0 | 1173.7 | 1173.6 | 1172.9 | 1172.1 | 1171.4 | 1170.6 |
| 160° | 1193.1 | 1193.8 | 1194.4 | 1194.2 | 1193.1 | 1192.0 | 1190.9 | 1189.8 |
| 162.5° | 1211.7 | 1212.9 | 1214.1 | 1214.2 | 1213.1 | 1212.0 | 1210.9 | 1209.7 |
| 165° | 1236.4 | 1237.7 | 1239.0 | 1239.2 | 1238.4 | 1237.5 | 1236.6 | 1235.7 |
| 167.5° | 1257.1 | 1258.5 | 1259.8 | 1259.8 | 1258.4 | 1257.0 | 1255.6 | 1254.3 |
| 170° | 1268.3 | 1269.6 | 1271.0 | 1270.8 | 1269.3 | 1267.7 | 1266.2 | 1264.6 |
| 172.5° | 1276.6 | 1278.1 | 1279.7 | 1279.6 | 1278.1 | 1276.5 | 1275.0 | 1273.4 |
| 175° | 1285.7 | 1287.3 | 1288.8 | 1288.8 | 1287.3 | 1285.7 | 1284.2 | 1282.6 |
| 177.5° | 1290.7 | 1291.9 | 1293.2 | 1293.1 | 1291.7 | 1290.2 | 1288.8 | 1287.4 |
| 180° | 1290.6 | 1290.6 | 1290.6 | 1290.6 | 1290.6 | 1290.6 | 1290.6 | 1290.6 |

(END OF REPORT)